

04-27-12 LETTING ITEM 093

FOR INDEX OF SHEETS, SEE SHEET NO. 1

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3 COMMITMENT & GENERAL NOTES
- 4-12 PLAN SHEETS

TRAFFIC STANDARDS

- 701101-02
- 701106-02
- 701901-02
- 701400-05
- 701401-06
- 701402-09
- 701406-06
- 701411-08

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 39 (I-39)

SECTION 102-[4HB;3HB-2]I

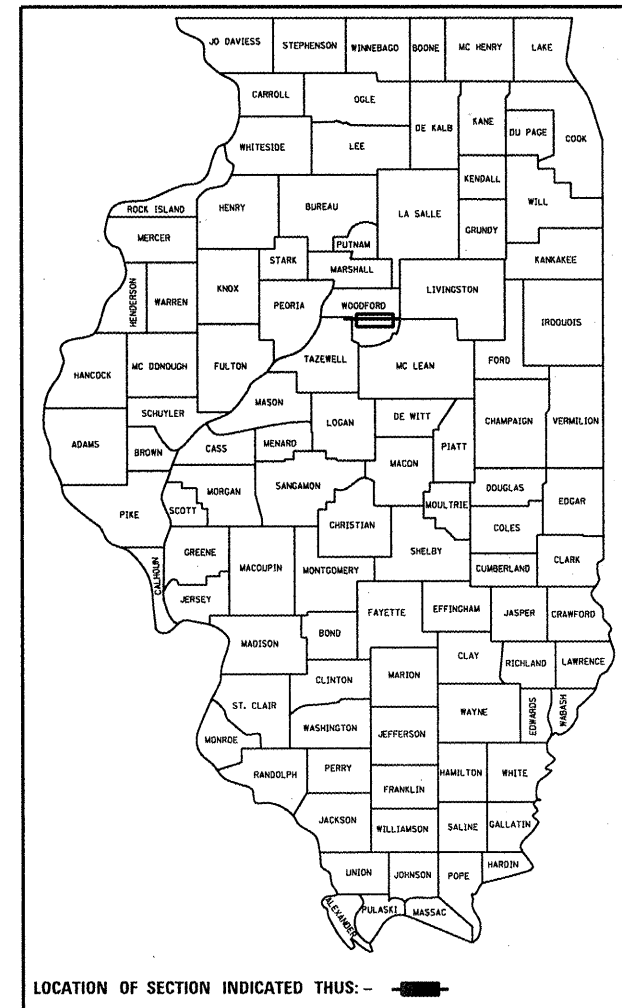
PROJECT NA

TYPE of IMPROVEMENT BRIDGE PAINTING
WOODFORD COUNTY

C-94-063-12

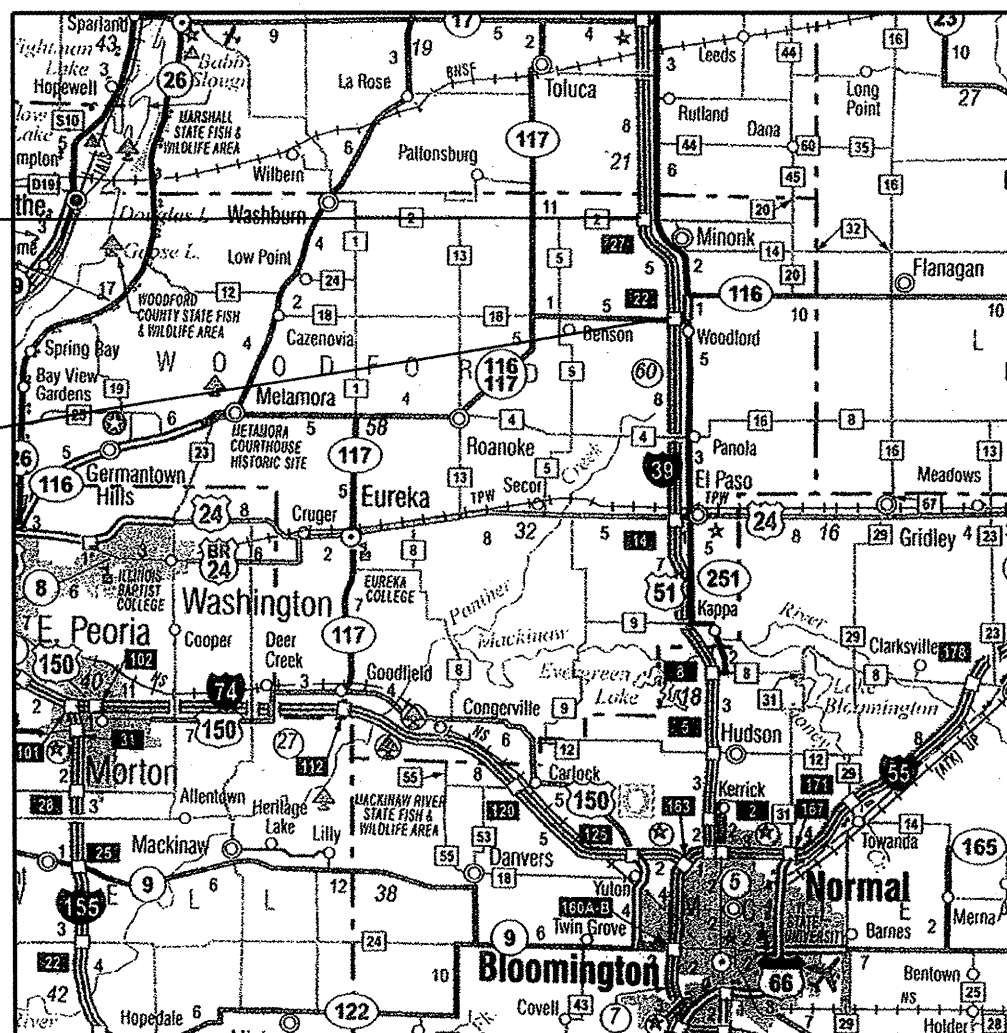
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	102-[4HB;3HB-2]I	WOODFORD	12	1
ILLINOIS			68A94	

D-94-040-12



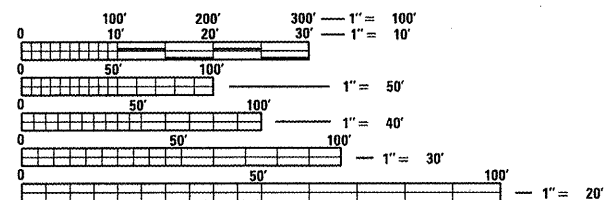
Location 1 S.N. 102-0047

Location 2 S.N. 102-0049



LOCATION 1 & 2

ADT 14,100 TRUCK 3.3%



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

DESIGN ENGINEER TOM INGLIS (309) 671-3481
 PROJECT MANAGER NICHOLAS JACK (309) 671-3451

CONTRACT NO. 68A94

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *Feb 20 12*

March 28 20 12
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
 John D. Baranzelli, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

March 28 20 12
 William R. Frey, Jr.
 acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Summary of Quantities

Code Order

ROUTE		SECTION	COUNTY	SHEET	
FAI	39	102-[4HB;3HB-2]I	WOODFORD	TOTAL	NO.
I	39			12	2
			CONTRACT NO.	68A94	

CONSTRUCTION TYPE CODE

I-39	
WOODFORD	
0014	
100% STATE	

CODE No.	ITEM	UNIT	Tot.QTY		
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1	
50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	L SUM	1	1	
67100100	MOBILIZATION	L SUM	1	1	
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2	
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO.1	L SUM	1	1	
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO.2	L SUM	1	1	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	10	10	
Z0052398	PORTABLE TEMPORARY BARRIER SYSTEM	FOOT	319	319	
Z0052399	RELOCATE PORTABLE TEMPORARY BARRIER SYSTEM	FOOT	1517	1517	

COMMITMENTS

No Commitments have been made for this project

GENERAL NOTES

All cleaning and painting shall be as specified in the Special Provision for "Clening and Painting Existing Structural Steel" All beams, Brackets and all other structural steel shall be cleaned per Near White Blast Cleaning SSPC-SP10 according to the following schedule:

Bridge Location 1 and 2 . Entier structure.
Recycled steel abrasive shall be used for both structures.

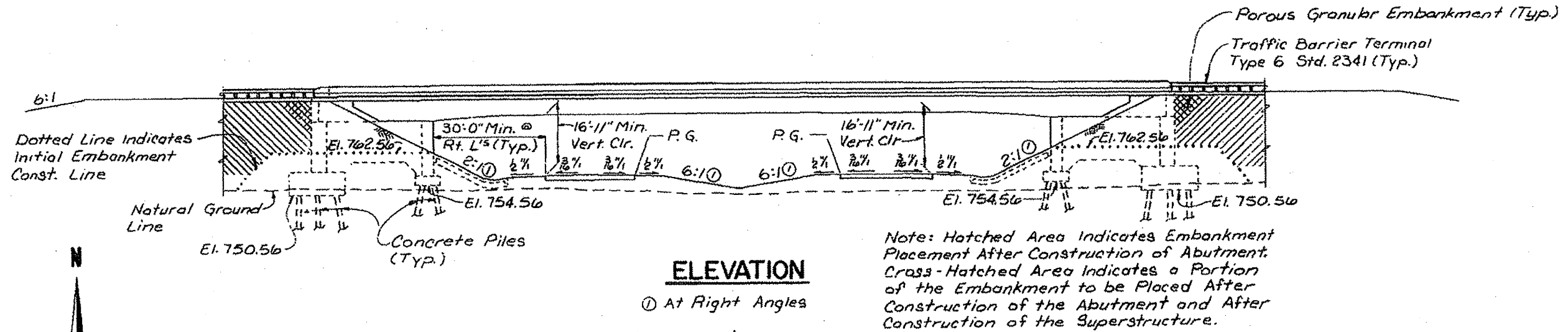
The final finish coat for the fascia beams shall be according to the following schedule:
Bridge Location 1 and 2 shall be Red Brown (Munsel No. 2.5YR 3/4)

The final finish coat for the underside shall be according to the the following schedule:
Bridge Location 1 and 2 shall be Light Grey(Munsel No. 5B 7/1)

No Air Monitors for this Project.

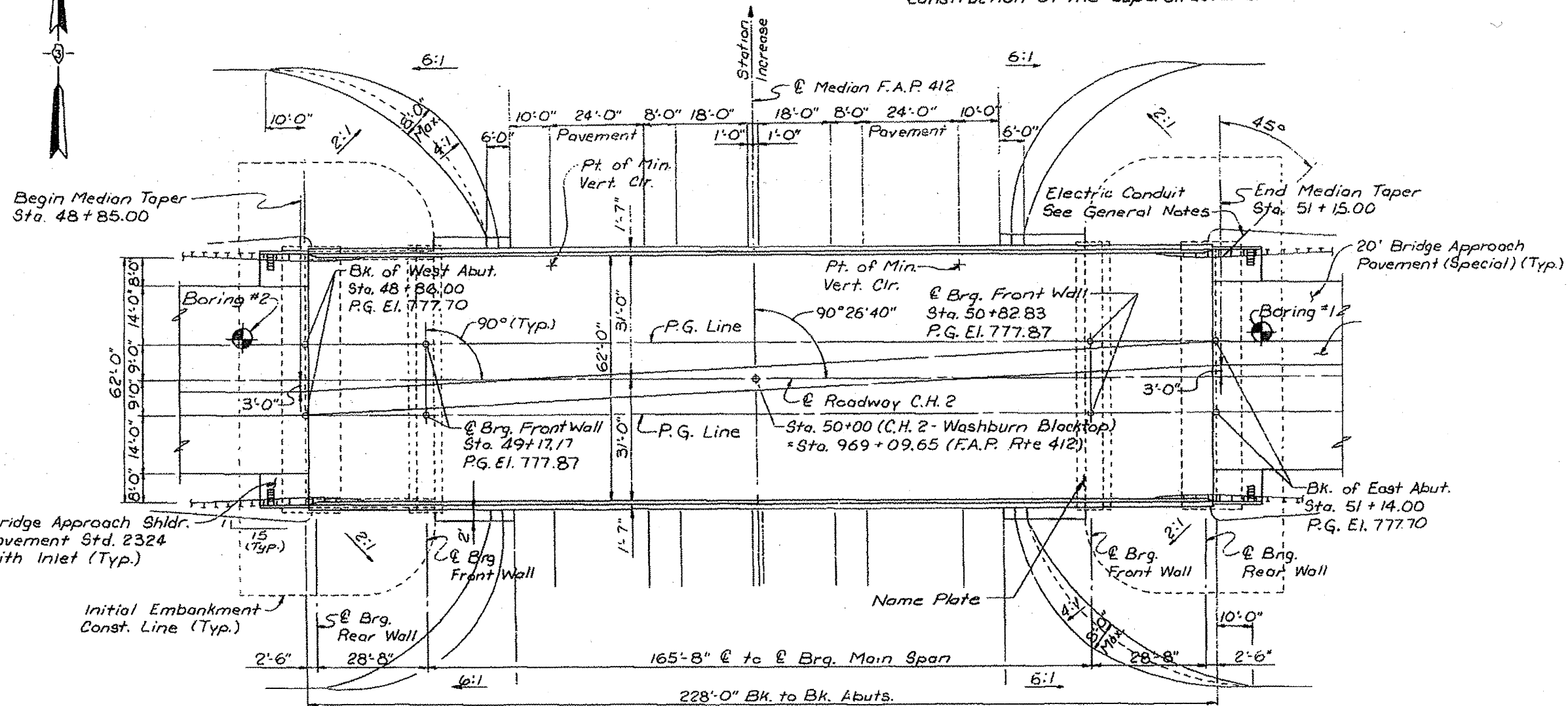
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		DRAWN - _____	REVISED - _____		CONTRACT NO. 68A94						
		CHECKED - _____	REVISED - _____		ILLINOIS FED. AID PROJECT						
		DATE - _____	REVISED - _____								

S.N. 102-0047 LOCATION 1 INFORMATION ONLY



ELEVATION

① At Right Angles

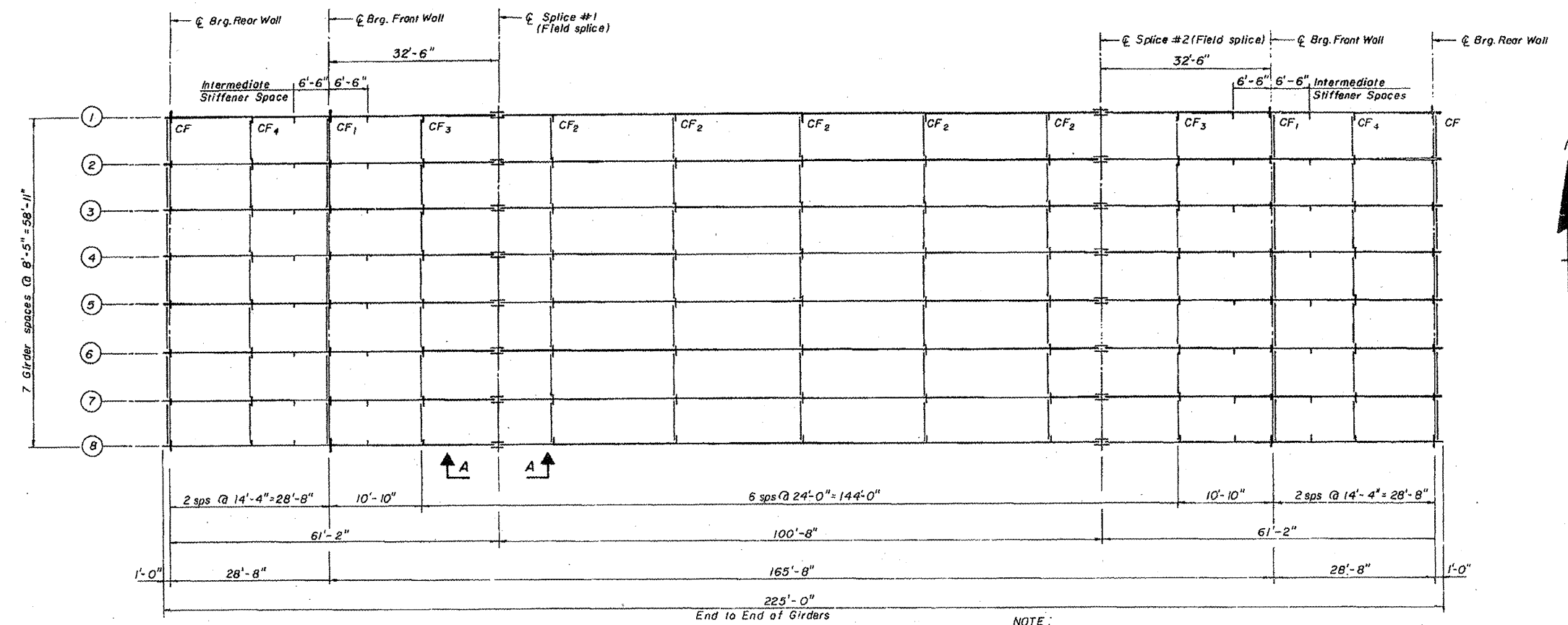


PLAN

A

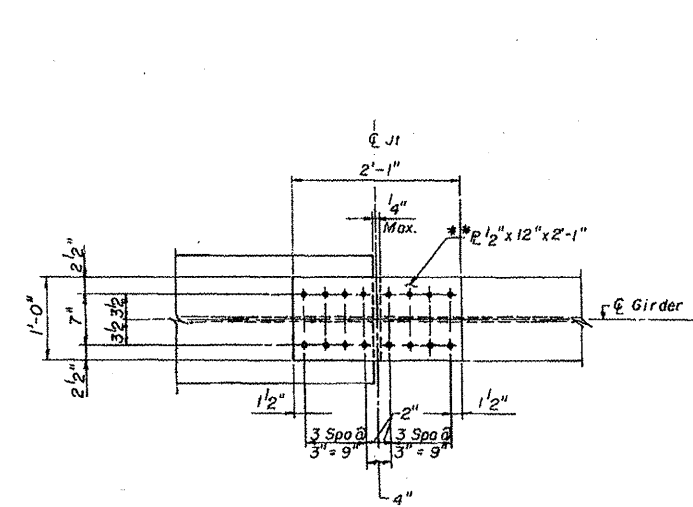
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		DRAWN -	REVISED -			CONTRACT NO. 68A94				
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		DATE -	REVISED -							

S.N. 102-0047 LOCATION 1 INFORMATION ONLY

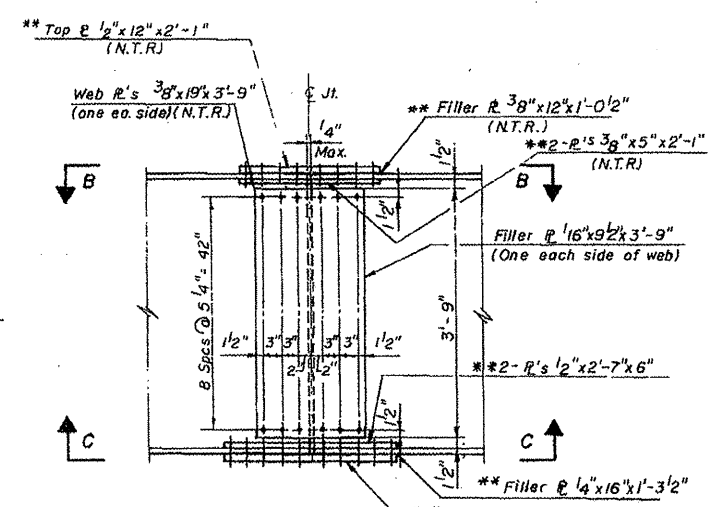


FRAMING PLAN
Scale: $\frac{3}{32}'' = 1'-0''$

NOTE: Core must be exercised for properly bracing the 12" top flange during shipping and erection before the cross frames are installed.



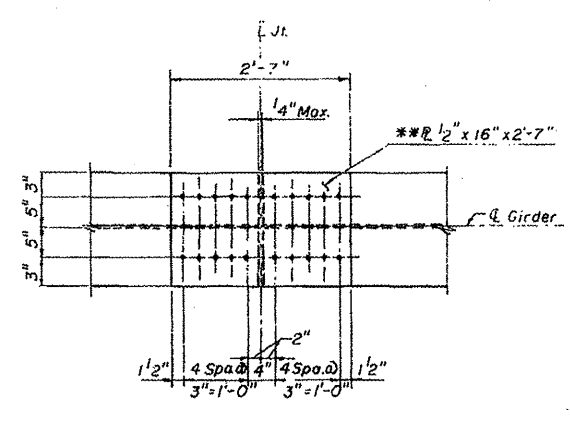
SECTION B-B



SECTION - A-A

N.T.R. = Notch Toughness Req'd.
* * Indicates M-223 Gr. 50 Steel

FIELD SPLICE DETAILS
N.T.S.

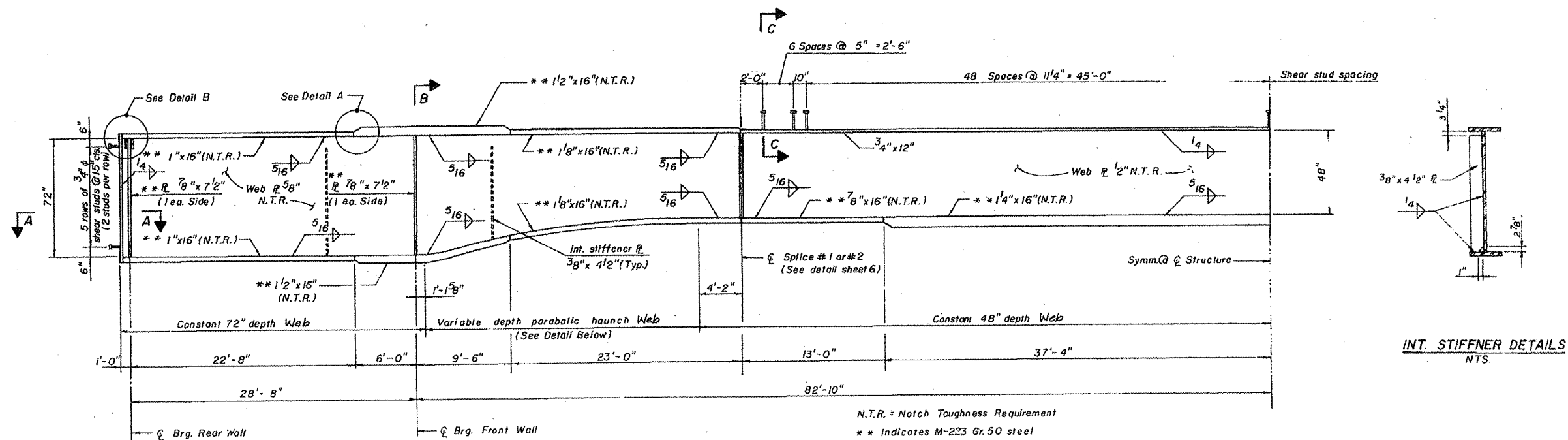


SECTION C-C

NOTE: All bolts for field splices are $\frac{7}{8}''$ H. S. bolts. Open holes shall be $1\frac{5}{16}''$ (Typ.)

FILE NAME = April 2012 printing.dgn	USER NAME = AdedeSA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. RTE. 39	SECTION 102-[4HB,3HB-2]	COUNTY WOODFORD	TOTAL SHEETS 12	SHEET NO. 5
	PLOT SCALE = 2.0198' / in.	DRAWN -	REVISED -		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____	CONTRACT NO. 68A94			
	PLOT DATE = 2/11/2012	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -						

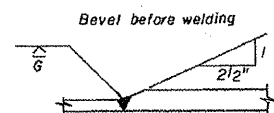
S.N. 102-0047 LOCATION 1 INFORMATION ONLY



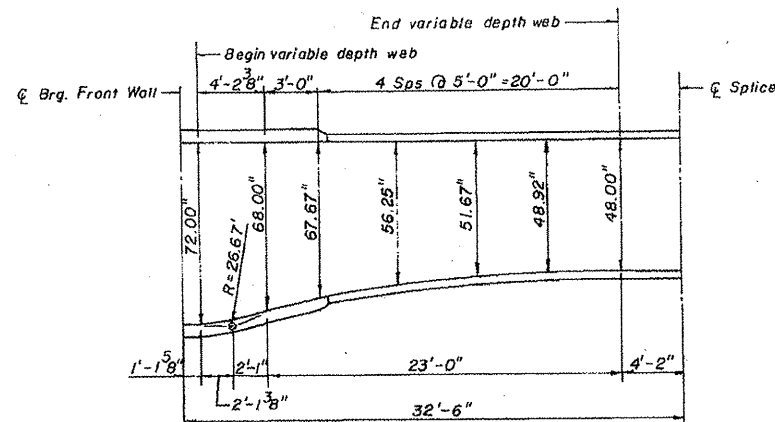
INT. STIFFENER DETAILS
N.T.S.

HALF ELEVATION
N.T.S.

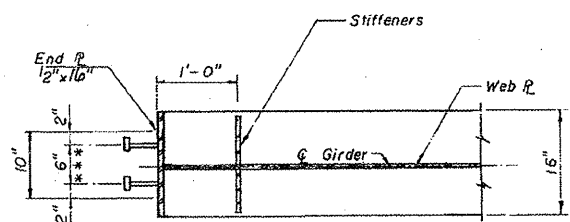
N.T.R. = Notch Toughness Requirement
** indicates M-223 Gr. 50 steel



DETAIL A
N.T.S.

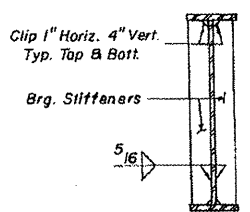


DETAIL OF PARABOLIC HAUNCH
N.T.S.



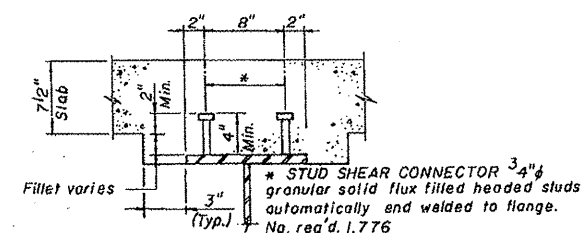
SECTION A-A
N.T.S.

** 3/4 inch x 4 inch Granular or solid flux filled headed studs automatically end welded to end plate. No. req'd. 160 STUD SHEAR CONNECTOR.

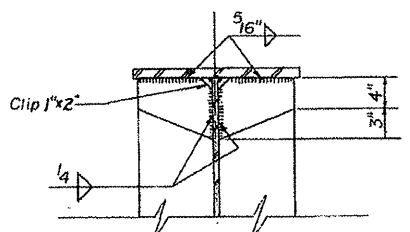


SECTION B-B
N.T.S.

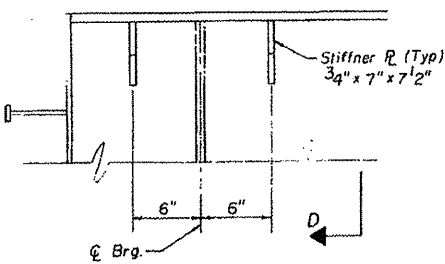
Brg. stiffeners shall be tight fit at top & mill to bear at bottom.



SECTION C-C
N.T.S.



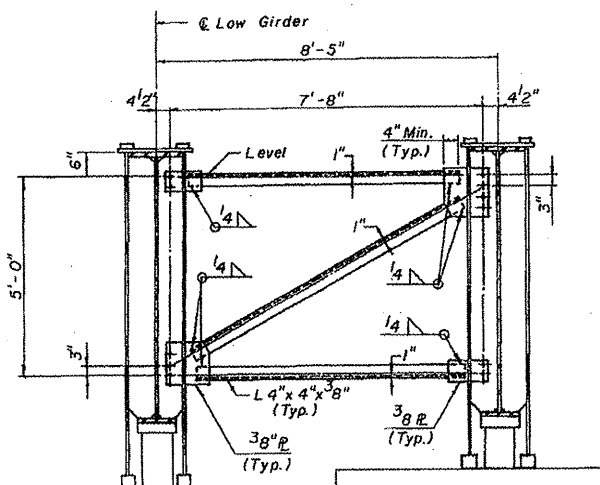
SECTION D-D
N.T.S.



DETAIL B
N.T.S.

FILE NAME = April 2012 printing.dgn	USER NAME = AdedeSA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____	F.A.I. RTE. 39	SECTION 102-[4B]3HB-2]]	COUNTY WOODFORD	TOTAL SHEETS 12	SHEET NO. 6
PLOT SCALE = 2.0198 / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 68A94				
PLOT DATE = 2/1/2012	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

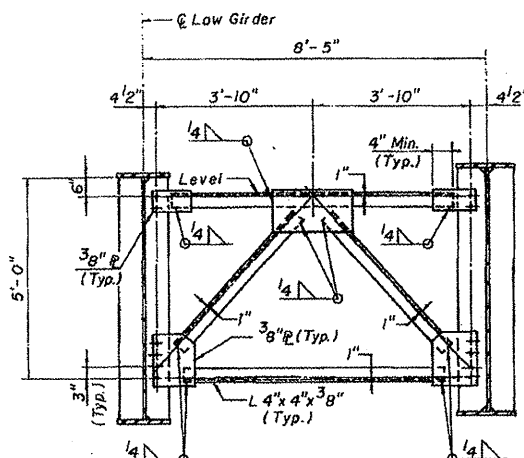
S.N. 102-0047 LOCATION 1 INFORMATION ONLY



END CROSS FRAME - CF₁

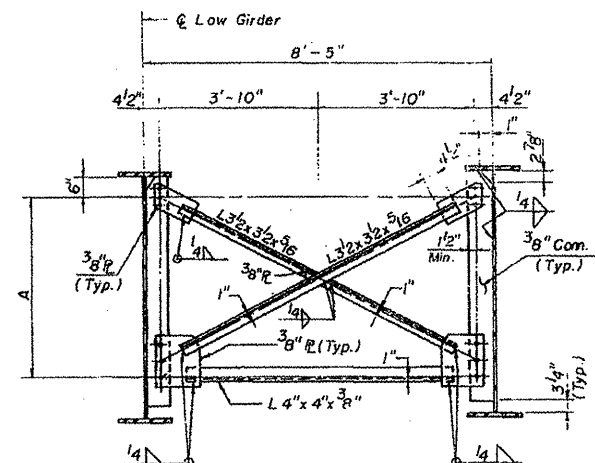
No. Req'd. = 14
Scale: 1/2" = 1'-0"

CROSS FRAME CF MAY BE REMOVED AFTER BACKWALL IS IN PLACE.



INTERIOR CROSS FRAME - CF₁

No. Req'd. = 14
Scale: 1/2" = 1'-0"

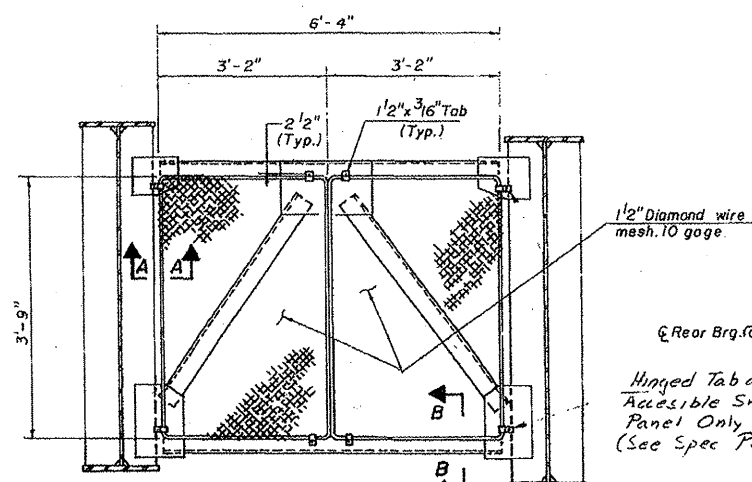


INTERIOR CROSS FRAME - CF₂, CF₃ & CF₄

CF₂ No. Req'd. = 35; CF₃ No. Req'd. = 14; CF₄ No. Req'd. = 14
CF₂ shown. CF₃ & CF₄ similar except the connection plate shall be welded to the bottom flange and undercut of the top.
Scale: 1/2" = 1'-0"

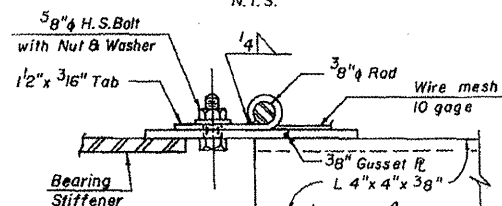
VALUE of A

CF ₂	= 3'-0"
CF ₃	= 3'-10"
CF ₄	= 5'-0"



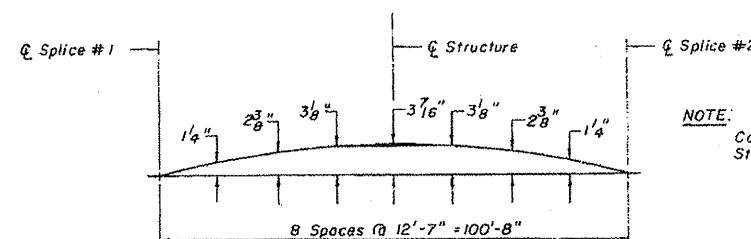
TYPICAL SCREEN PANEL AT CROSS FRAME CF₁

No. Req'd. = 14
N.T.S.



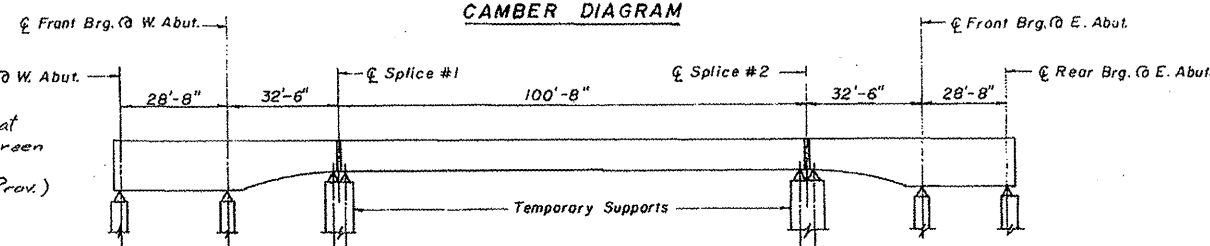
SECTION A-A
N.T.S.

1/2" Diamond wire mesh, 10 gage.
Hinged Tab at Accessible Screen Panel Only (See Spec Prox.)



CAMBER DIAGRAM

NOTE: Cambered for Deck Slab, Steel & Superimposed Dead Loads.



ERECTION SKETCH

R₁ = 4.4" Girder
R₂ = 10.2" Girder

Erection Sequence

- 1 Erect the girders in 3 segments, supported by the permanent bearings and the temporary supports. Temporary supports shall be incidental to STRUCTURAL STEEL.
- 2 Erect the girder splices.
- 3 Install tiedown devices.
- 4 Remove temporary supports.
- 5 Pour concrete deck. For pouring sequence see Sheet 5 of 13

FILE NAME =	USER NAME = AdadeSA
April 2012 printing.dgn	

DESIGNED -	REVISIONS -
DRAWN -	REVISIONS -
CHECKED -	REVISIONS -
DATE -	REVISIONS -

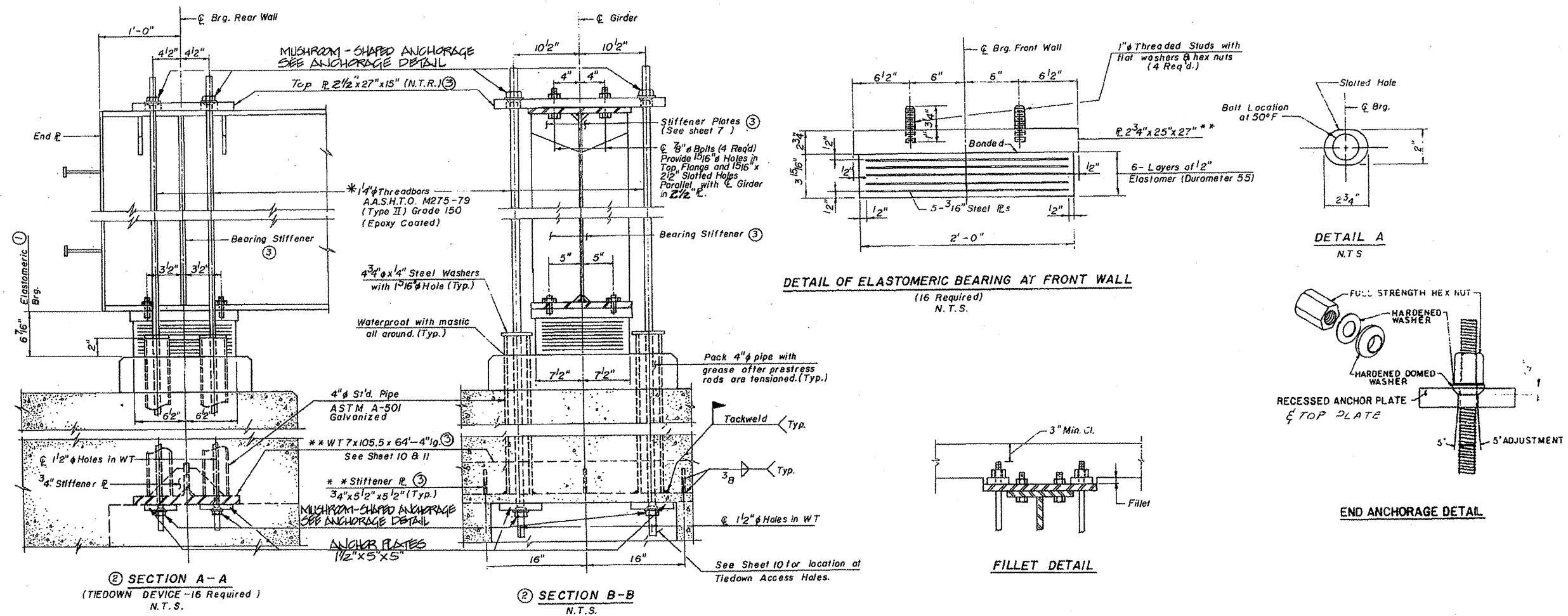
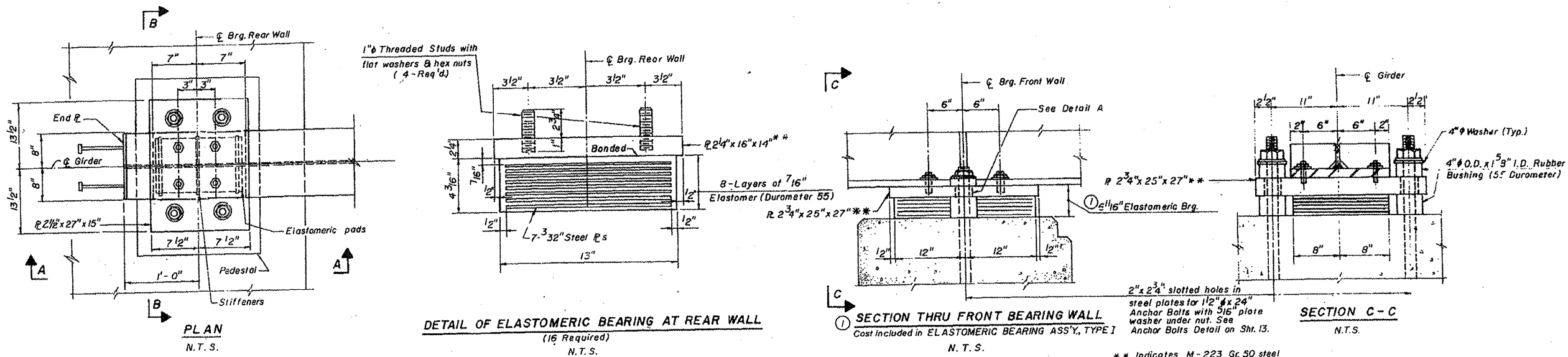
PLLOT SCALE = 2.0205' / in.	DATE -
PLLOT DATE = 2/1/2012	DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____
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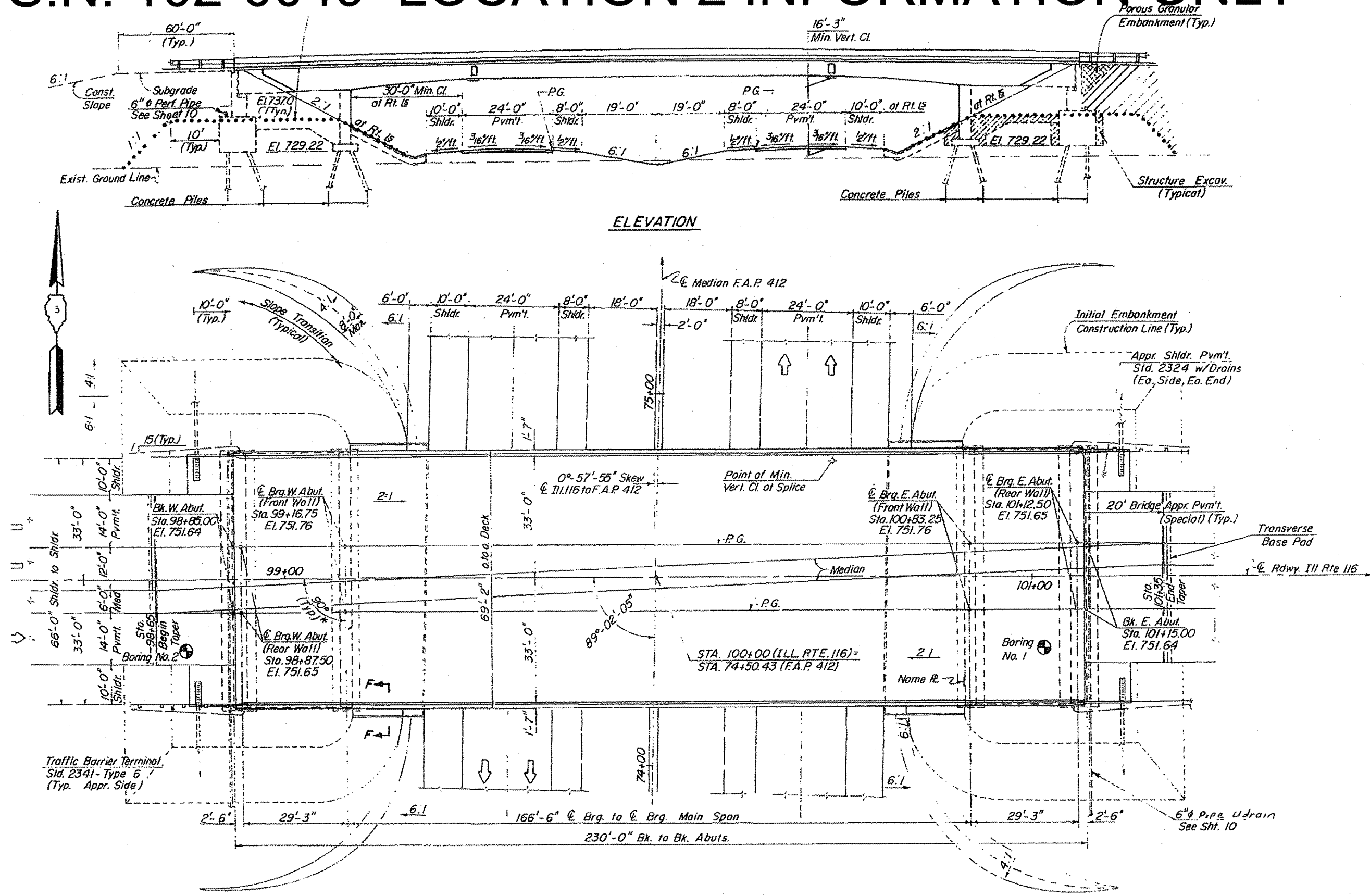
F.A.I. RTE. 39	SECTION 102-(4HB,3HB-2)I	COUNTY WOODFORD	TOTAL SHEETS 12	SHEET NO. 7
CONTRACT NO. 68A94				ILLINOIS FED. AID PROJECT

S.N. 102-0047 LOCATION 1 INFORMATION ONLY



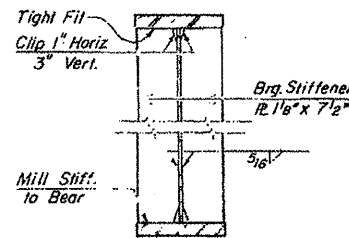
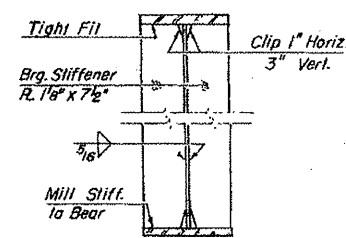
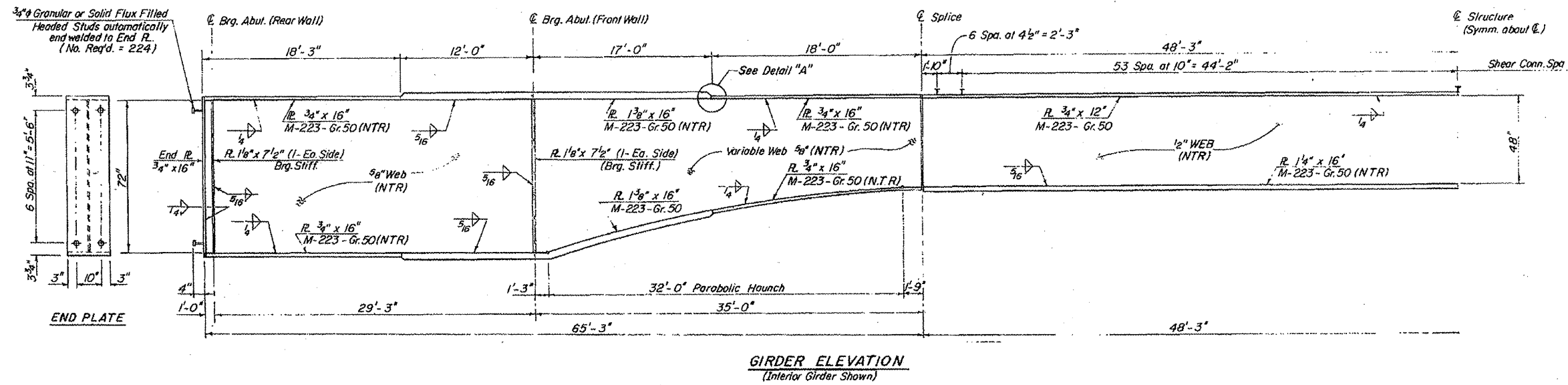
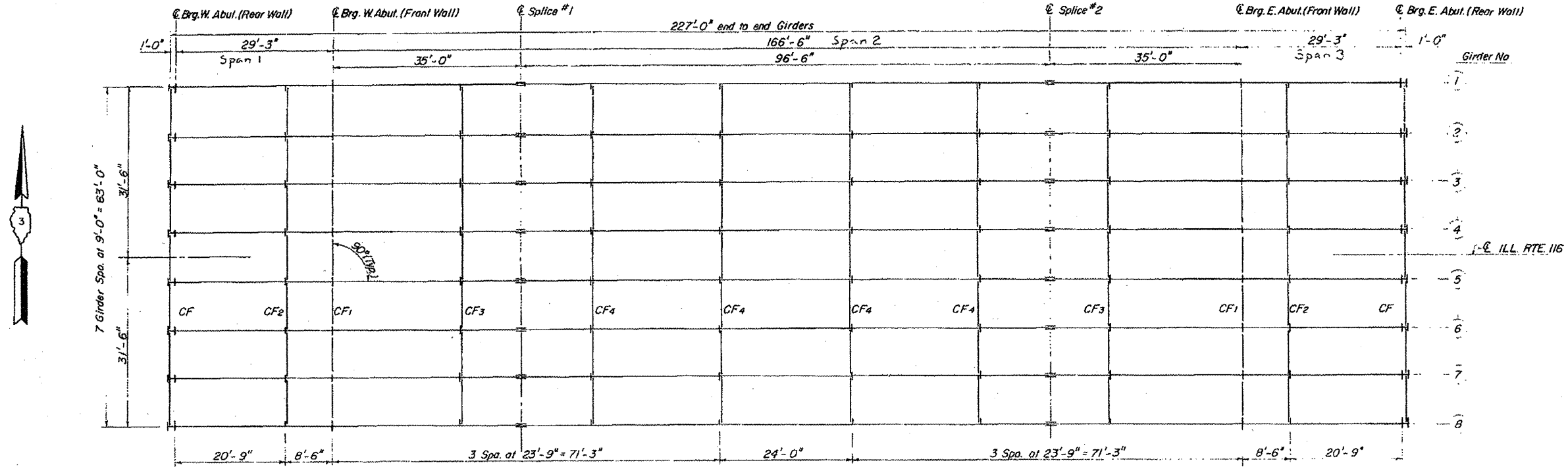
FILE NAME = April 2012 printing.dgn	USER NAME = AdadeSA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____	F.A.I. RTE. 39	SECTION 102-(4HB)3HB-2J1	COUNTY WOODFORD	TOTAL SHEETS 12	SHEET NO. 8
	PLOT SCALE = 2.8205 1/16" IN.	DRAWN -	REVISED -			CONTRACT NO. 68A94				
	PLOT DATE = 2/1/2012	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -							

S.N. 102-0049 LOCATION 2 INFORMATION ONLY



FILE NAME = April 2012 painting.dgn	USER NAME = AdadeSA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____	F.A.I. RTE. 39	SECTION 102-14HB;3HB-2J	COUNTY WOODFORD	TOTAL SHEETS 12	SHEET NO. 9
	PLOT SCALE = 2.8205' / in.	DRAWN -	REVISED -			CONTRACT NO. 68A94				
	PLOT DATE = 2/1/2012	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -							

S.N. 102-0049 LOCATION 2 INFORMATION ONLY



FILE NAME = April 2012 printing.dgn

USER NAME = AdadeSA

DESIGNED -

REVISED -

DRAWN -

REVISED -

PLOT SCALE = 2.0205' / in.

CHECKED -

REVISED -

PLOT DATE = 2/1/2012

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

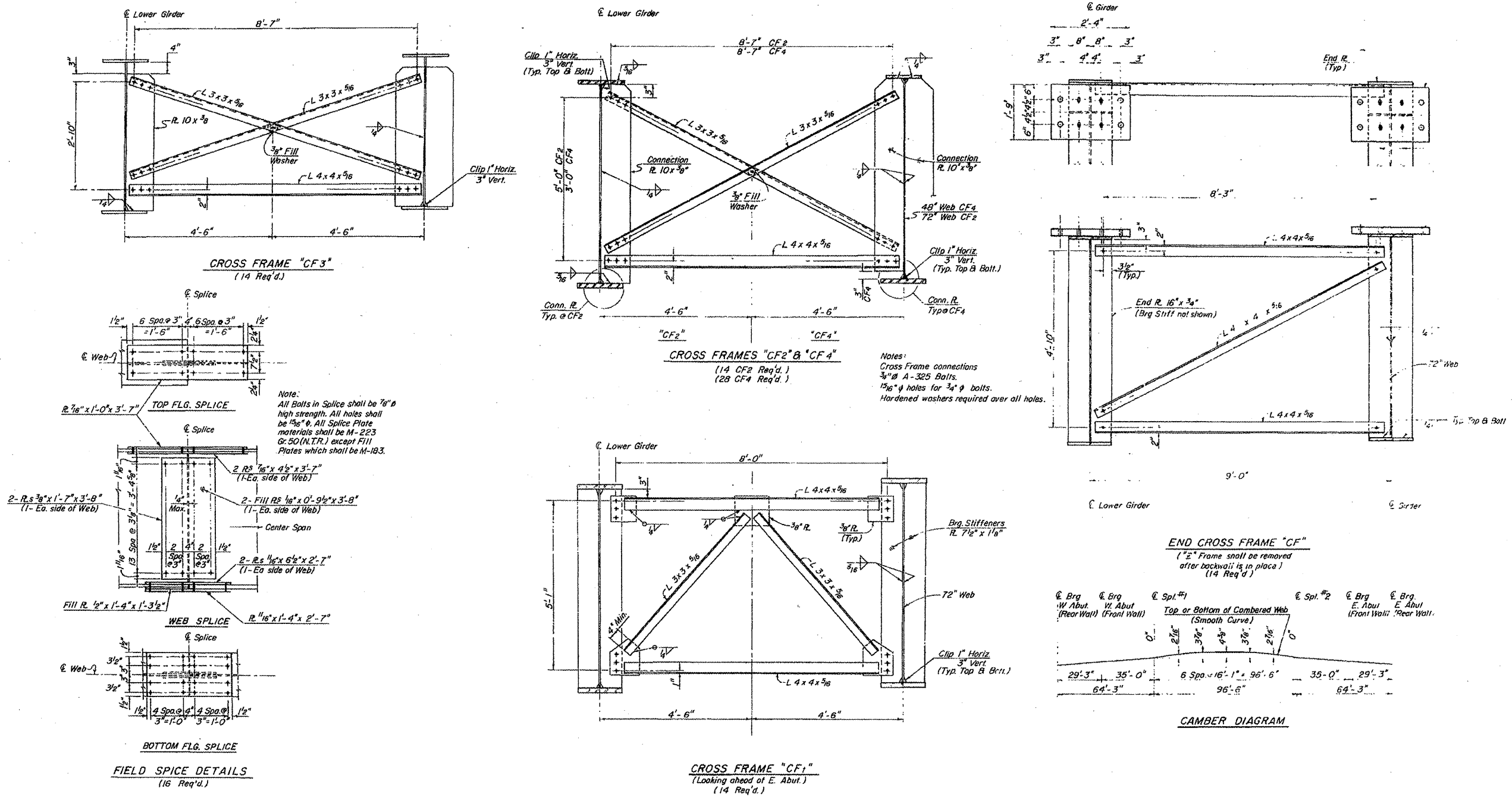
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	102-(4HB)3HB-2J	WOODFORD	12	10

CONTRACT NO. 68A94

ILLINOIS FED. AID PROJECT

S.N. 102-0049 LOCATION 2 INFORMATION ONLY



FILE NAME =
April 2012 printing.dgn

USER NAME = AdadeSA
PLOT SCALE = 2.0285' / 1" =
PLOT DATE = 2/1/2012

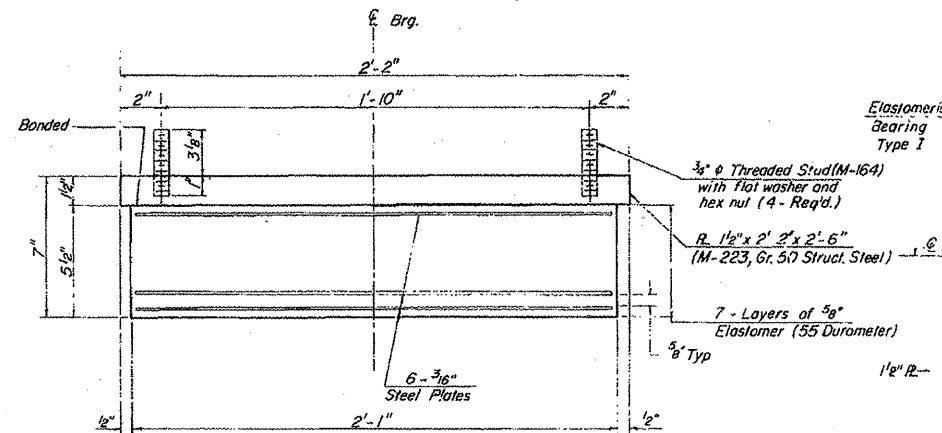
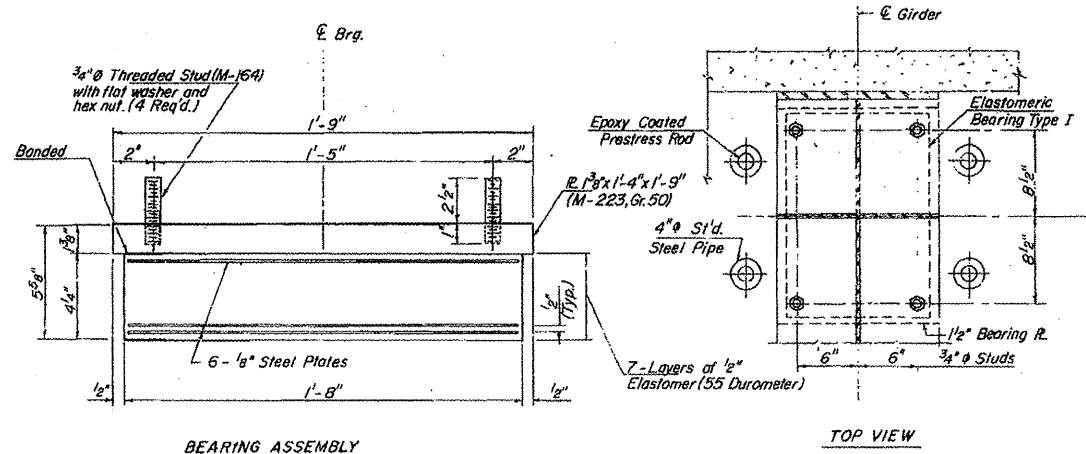
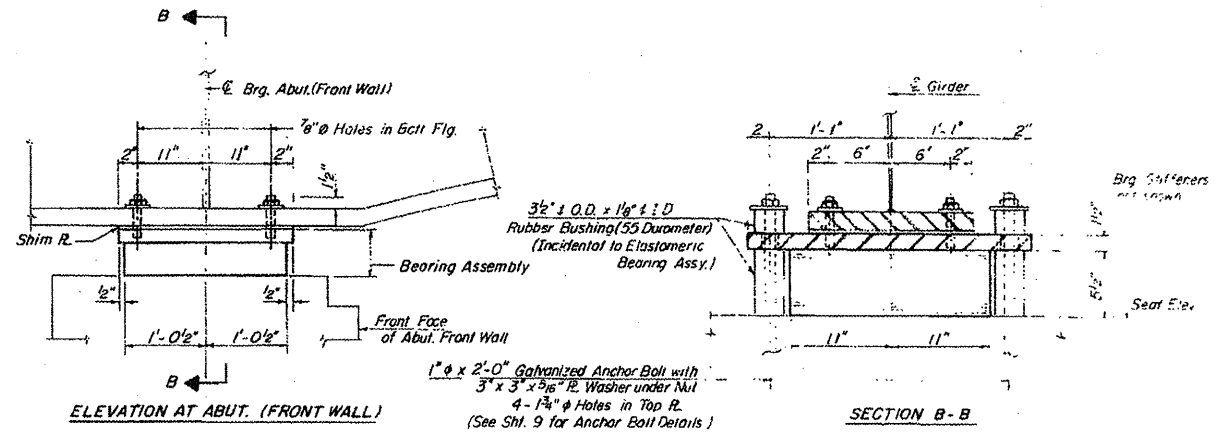
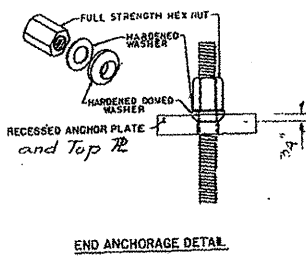
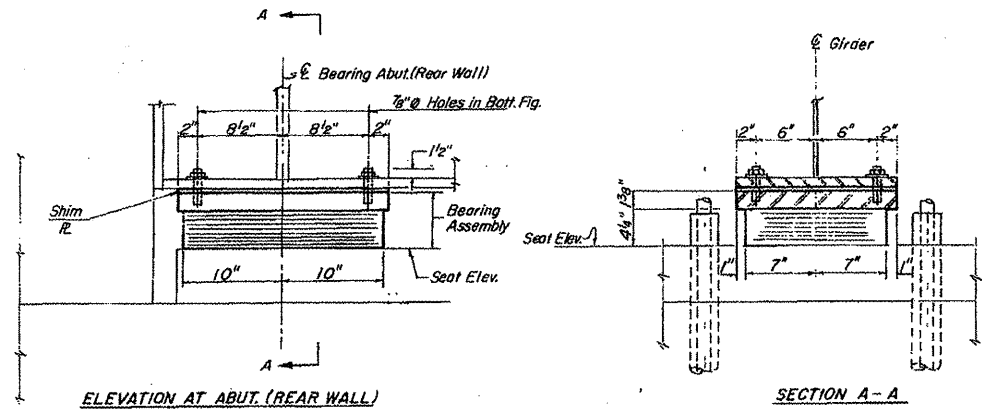
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	102-[4HB]3HB-2J	WOODFORD	12	11
CONTRACT NO. 68A94			ILLINOIS FED. AID PROJECT	

S.N. 102-0049 LOCATION 2 INFORMATION ONLY

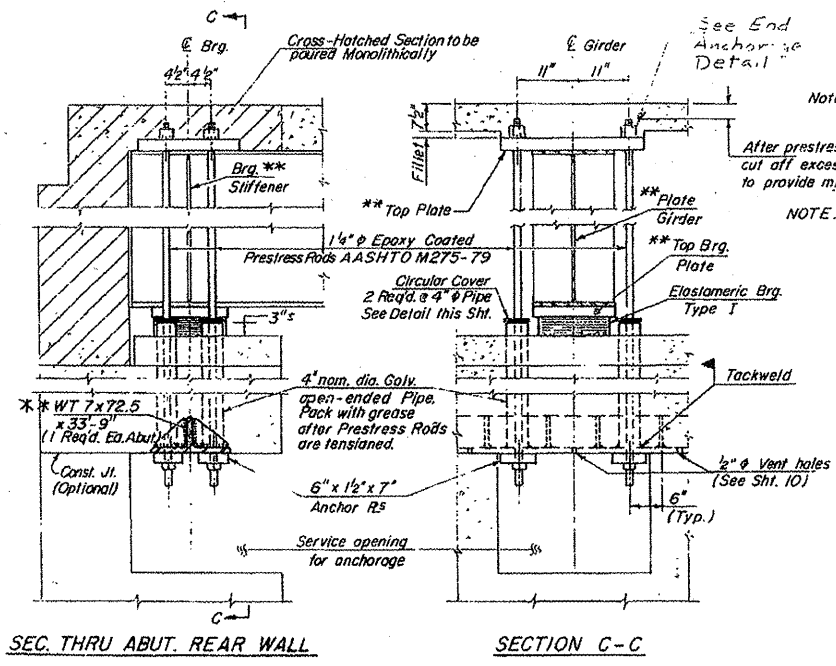


Note: Shim plates shall not be placed under Bearing Assembly.

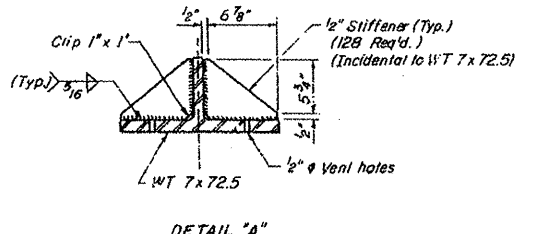
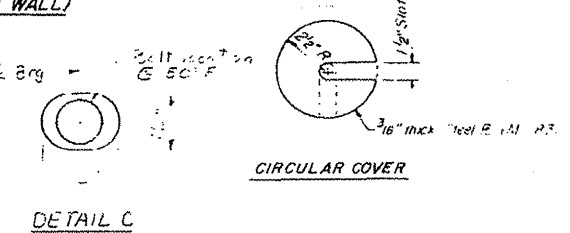
TYPE I ELASTOMERIC BRG. ASS'BY. AT ABUT. (REAR WALL)

Note: Shim plates shall not be placed under Bearing Assembly.

TYPE I ELASTOMERIC BRG. ASS'BY. AT ABUT. (FRONT WALL)



NOTE: *** All items shown on this detail are included in TIEDOWN DEVICE except as noted. *** Cost included in Furnishing & Erecting Structural Steel. Initially stress each Prestress Rod (Threadbar) to 27 kips after anchorage is set. After completion of Pouring Sequence 1 & 2 of the deck slab, stress each Prestress Rod an additional 20 kips.



*** TIEDOWN DETAILS ***

FILE NAME =	USER NAME = AdadeSA	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____	F.A.I. RTE. 39	SECTION 102-[4HB3HB-2]	COUNTY WOODFORD	TOTAL SHEETS 12	SHEET NO. 12
April 2012 printing.dgn	PLOT SCALE = 2.0285' / 1in.	DRAWN -	REVISED -			CONTRACT NO. 68A94				
	PLOT DATE = 2/1/2012	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -							