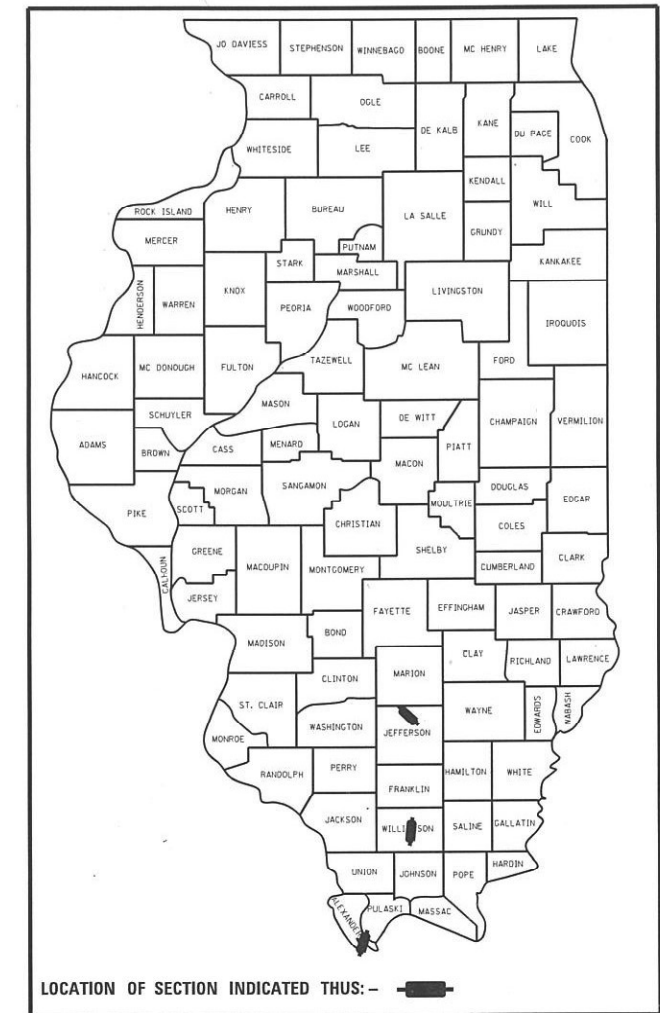


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	1
		ILLINOIS	CONTRACT NO. 78882	

D-99-060-21



PROPOSED  
HIGHWAY PLANS

VARIOUS ROUTES  
SECTION D9 BRIDGE PAINT 2023-1  
PROJECT STP-0N2F(407)  
VARIOUS COUNTIES

C-99-081-21

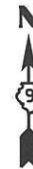
FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5

**BRIDGE NO. 1**  
SN. 100-0003  
I-57 2020 TWO WAY ADT=35100, 24% TRUCKS  
TOWNSHIP-WEST MARION  
POSTED SPEED: 70 MPH

**BRIDGE NO. 2**  
SN. 002-0026  
US-51 2020 TWO WAY ADT=3800, 15% TRUCKS  
TOWNSHIP-CACHE NO. 1  
POSTED SPEED: 45 MPH

**BRIDGE NO. 3**  
SN. 041-0060  
I-64 WB 2022 ONE-WAY ADT=13750, 36% TRUCKS  
TOWNSHIP-SHILOH  
POSTED SPEED: 70 MPH



BRIDGE NO. 3  
STRUCTURE NO. 041-0060  
CARRIES I-64 WB OVER FAI-57 SB

BRIDGE NO. 1  
STRUCTURE NO. 100-0003  
CARRIES B.N.S.F. RR OVER I-57

BRIDGE NO. 2  
STRUCTURE NO. 002-0026  
CARRIES C.N.I.C. RR OVER US51

DESIGN DESIGNATION : N/A

COORDINATE SYSTEM : N/A

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

PROJECT ENGINEER: GRANT DETERDING  
PROJECT DESIGNER: DAVID WILSON

CONTRACT NO. 78882

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 24 20 23

Kirk H. Brown  
REGION FIVE ENGINEER

May 12, 2023 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

Prepared By: Charles Stein  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Thee  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Con Nelson  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: [Signature]  
DISTRICT OPERATIONS ENGINEER

Examined By: Douglas J. Zellert  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Douglas J. Zellert  
DISTRICT CONSTRUCTION ENGINEER

Examined By: Ann Hays  
DISTRICT MATERIALS ENGINEER

MODEL: SMODELNAME\$  
FILE NAME: STITLE\$

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = S\$CALES	CHECKED - _____	REVISED - _____
PLOT DATE = S\$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE SHEET**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	2
CONTRACT NO. 78882				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

THE CONTRACTOR IS REQUIRED TO BE SSPC OP1 AND SSPC OP2 CERTIFIED.

A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

FOR STRUCTURES 100-0003 AND 002-0026, CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES." ALL STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC- SP10. ALL STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR SURFACES AND BOTTOM OF THE FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL NO. 7.5G 4/8.

FOR STRUCTURE SN 041-0060, CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES." ALL STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC- SP10. ALL STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR SURFACES AND BOTTOM OF THE FLANGE OF THE FASCIA BEAMS SHALL BE BLUE, MUNSELL NO. 10B 3/6.

A TOTAL OF 5 AIR MONITORS ARE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT 3 LOCATIONS. 1 AT BRIDGE NO. 1 (SN 100-0003), 3 AT BRIDGE NO. 2 (SN 002-0026), AND 1 AT BRIDGE NO. 3 (SN 041-0060).

COMMITMENTS: NONE

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
4-5	SUMMARY OF QUANTITIES
6	SCHEDULES AND AREAS OF CLEANING AND PAINTING
7	BRIDGE PAINT LOCATIONS
8	SN 100-0003 STAGE CONSTRUCTION DETAILS
9	SN 100-0003 STAGE I TYPICAL SHOULDER CLOSURE
10	SN 100-0003 STAGE II TYPICAL SHOULDER CLOSURE
11	SN 002-0026 STAGE CONSTRUCTION DETAILS
12	SN 041-0060 STAGE CONSTRUCTION DETAILS
13-20	SN 100-0003 STRUCTURE INFORMATION
21-31	SN 002-0026 STRUCTURE INFORMATION
32-36	SN 041-0060 STRUCTURE INFORMATION

**STANDARDS**

- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
- 701400-11 APPROACH TO LANE CLOSURE FREEWAY/ EXPRESSWAY
- 701401-13 LANE CLOSURE, FREEWAY/ EXPRESSWAY
- 701402-12 LANE CLOSURE, FREEWAY/ EXPRESSWAY, WITH BARRIER
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
- 701423-10 LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/ EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

REV. - MS

MODEL: R400DELNAMIES  
FILE NAME: SELE13

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, INDEX OF SHEETS AND STANDARDS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - _____	REVISOR - _____	VAR			D9 BRIDGE PAINT 2023-1	VARIOUS	36	3	
PLOT SCALE = \$\$CALES	CHECKED - _____	REVISED - _____			CONTRACT NO. 78882				
PLOT DATE = \$DATES	DATE - _____	REVISED - _____	SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT			

# SUMMARY OF QUANTITIES

	0044	0044	0044
COUNTY:	WILLIAMSON	ALEXANDER	JEFFERSON
ROUTE:	FAI 57	US 51	I-64
FUNDING:	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
LOCATION:	RURAL	RURAL	RURAL
	BRIDGE NO. 1	BRIDGE NO. 2	BRIDGE NO. 3
	100-0003	002-0026	041-0060

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BRIDGE NO. 1	BRIDGE NO. 2	BRIDGE NO. 3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	2	2
67100100	MOBILIZATION	L SUM	1	0.33	0.34	0.33
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1			1
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2		2	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1			1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	70	28	28	14
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,063	400	438	225
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	288	96	132	60
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	913	250	438	225
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	5	2	2	1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	5	2	2	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		

MODEL NUMBER: 11/15/11  
FILE NAME: 811115

REV. - MS

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 55CALES	CHECKED - _____	REVISED - _____
PLOT DATE = SDATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	4
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				



**TEMPORARY CONCRETE BARRIER/RELOCATE TEMPORARY CONCRETE BARRIER**

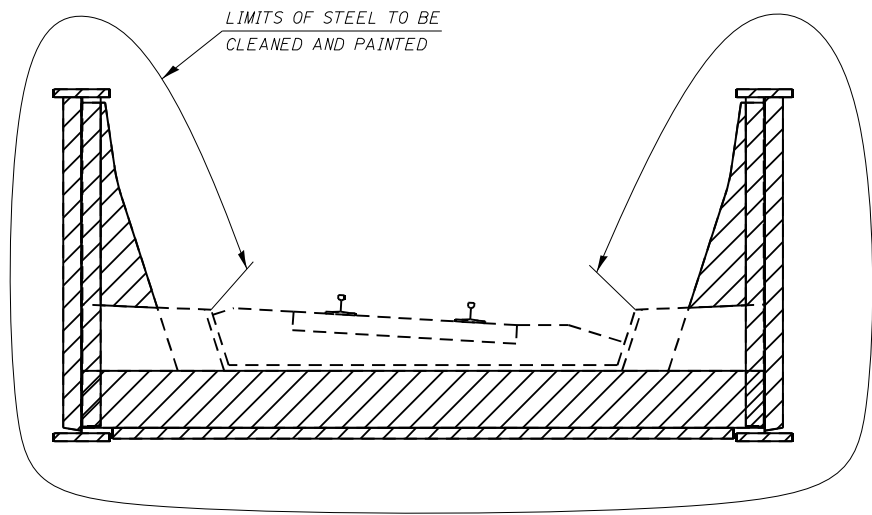
BRIDGE NUMBER	STRUCTURE NUMBER	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
1	100-0003	400 ft	250 ft
2	002-0026	438 ft	438 ft
3	041-0060	225 ft	225 ft
TOTAL		1063 ft	913 ft

**AREAS OF CLEANING & PAINTING**

BRIDGE NUMBER	STRUCTURE NUMBER	LEAD PRESENT	* ALL STRUCTURAL STEEL
1	100-0003	YES	X
2	002-0026	YES	X
3	041-0060	YES	X

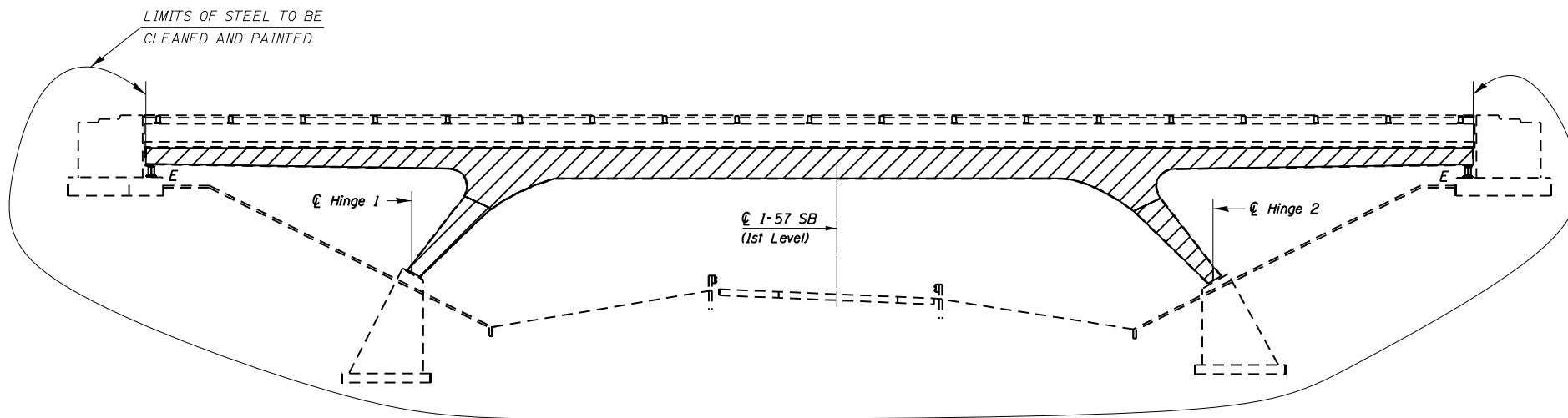
\* ALL STRUCTURAL STEEL FOR EACH BRIDGE AS WELL AS THE RAILING AND WALKWAY ON SOUTH SIDE OF SN 100-0003 AND BOTH SIDES OF SN 002-0026.

MODEL NAME: MAMES  
FILE NAME: 811215

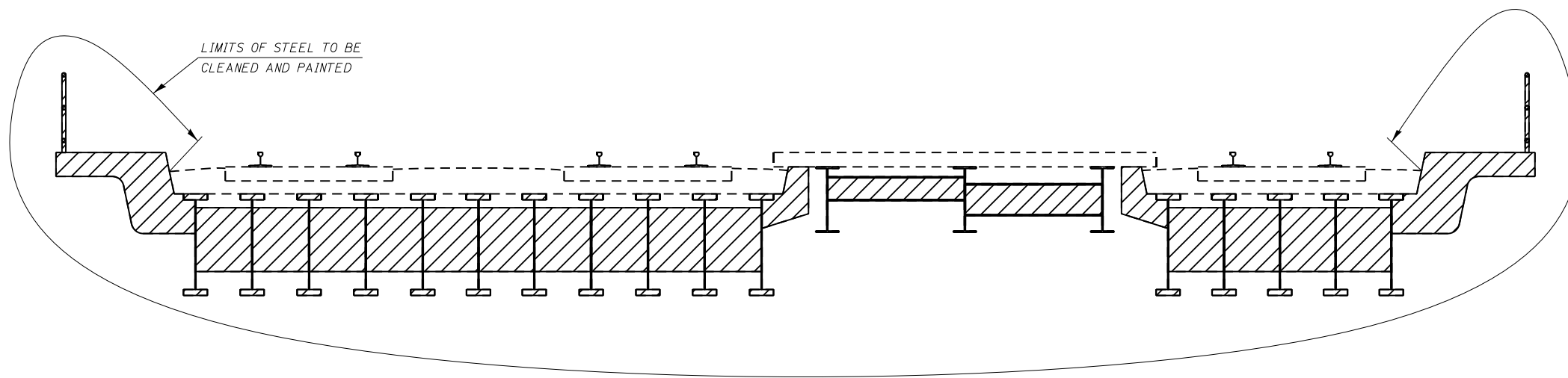


SN 100-0003


(NOT SHOWN IS AN EXISTING  
RAILING AND WALKWAY ON  
THE SOUTH SIDE.)



SN 041-0060



SN 002-0026

 CLEAN AND PAINT ALL VISABLE STEEL  
INCLUDING ALL STEEL IN-BETWEEN THE  
FLOOR BEAMS AND GIRDERS UNDERNEATH.

MODEL NUMBER: MAM165  
FILE NAME: 001.DWG

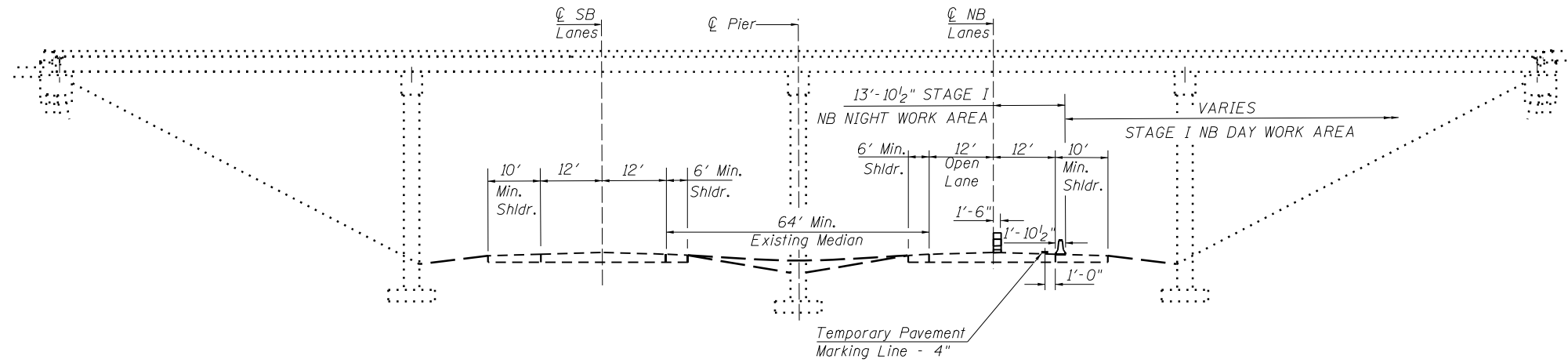
USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = 5SCALES	DRAWN - _____	REVISED - _____
PLOT DATE = SDATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

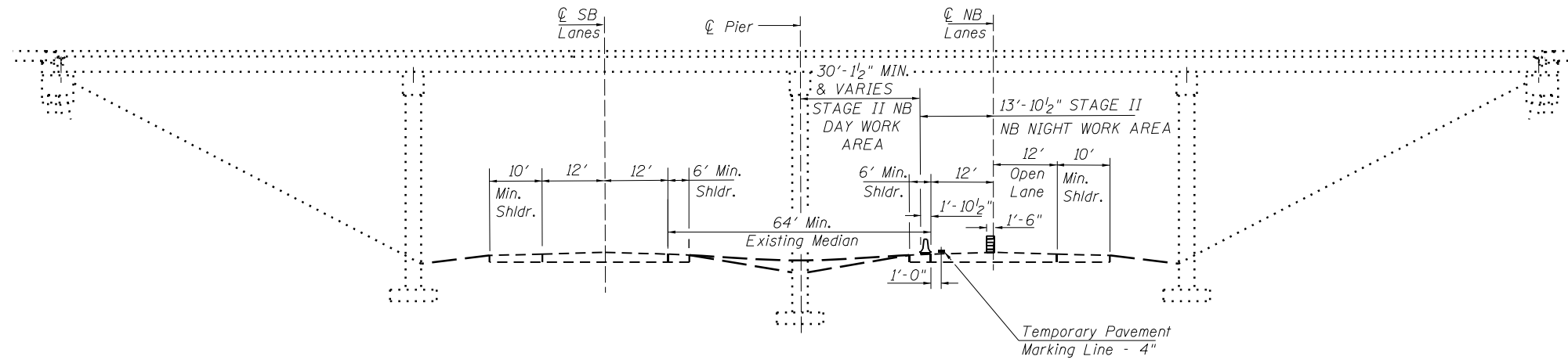
**BRIDGE PAINT LOCATIONS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	7
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				



TYPICAL BRIDGE  
STAGE I CONSTRUCTION  
SHOWING NB LANES  
SB LANES SIMILAR BY 180° ROTATION  
(LOOKING NORTH)



TYPICAL BRIDGE  
STAGE II CONSTRUCTION  
SHOWING NB LANES  
SB LANES SIMILAR BY 180° ROTATION  
(LOOKING NORTH)

MODEL NUMBER: MAM16  
FILE NAME: 011615

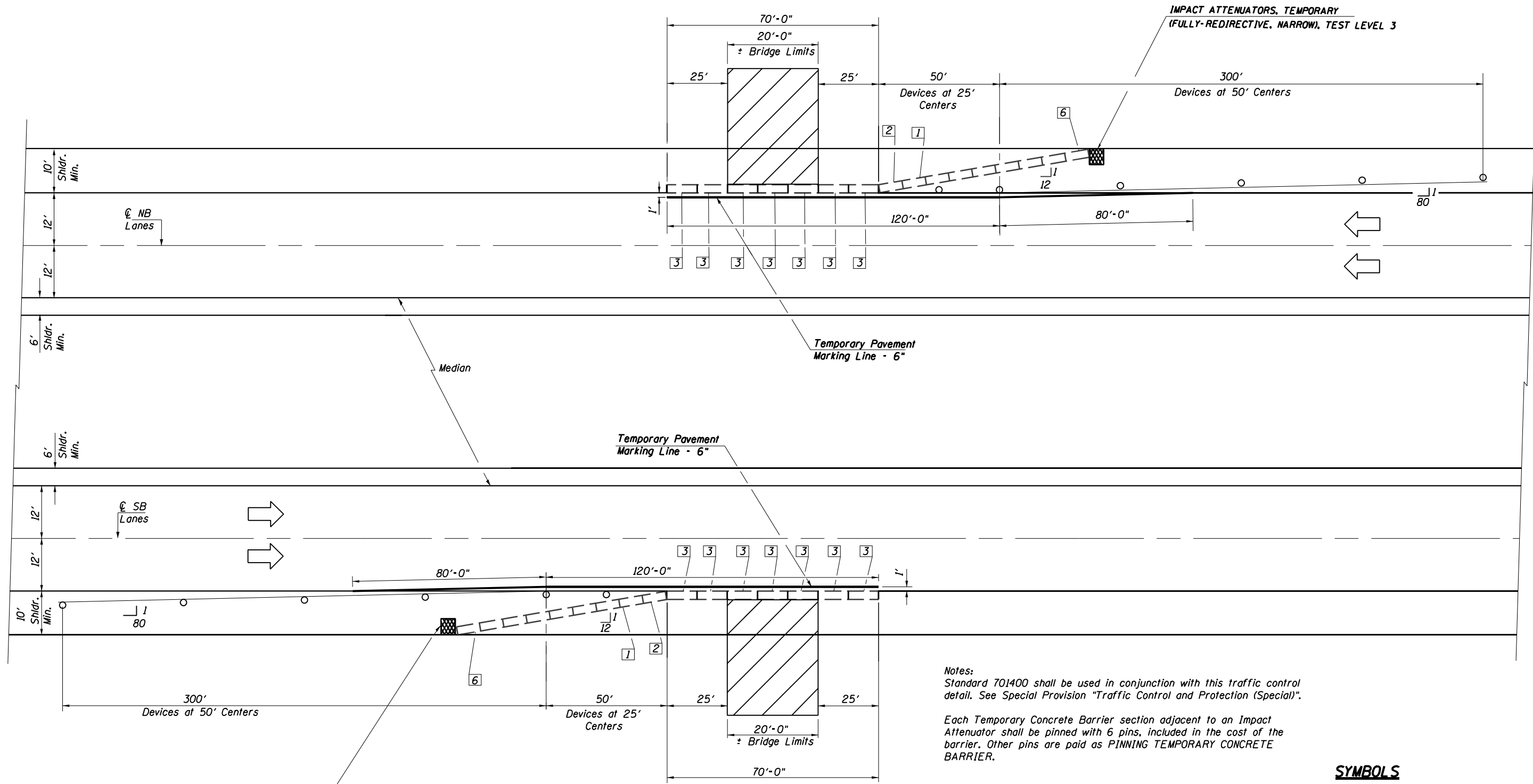
USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 5SCALES	CHECKED - _____	REVISED - _____
PLOT DATE = SDATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SN 100-003</b>	
<b>STAGE CONSTRUCTION DETAILS</b>	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	8
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				





**Notes:**  
 Standard 701400 shall be used in conjunction with this traffic control detail. See Special Provision "Traffic Control and Protection (Special)".  
 Each Temporary Concrete Barrier section adjacent to an Impact Attenuator shall be pinned with 6 pins, included in the cost of the barrier. Other pins are paid as PINNING TEMPORARY CONCRETE BARRIER.

**SYMBOLS**

	Number of pins in Temporary Concrete Barrier
	Work Area
	Temporary Concrete Barrier. See Standard 704001
	Type II Barricade, Drum, Or Vertical Barricade With Steady Burn Monodirectional Light. See Standard 701901.
	Temporary Pavement Marking Tape. Yellow Along 4' Shoulder. White Along 10' Shoulder.

**TYPICAL STAGE I SHOULDER CLOSURE - PLAN VIEW**

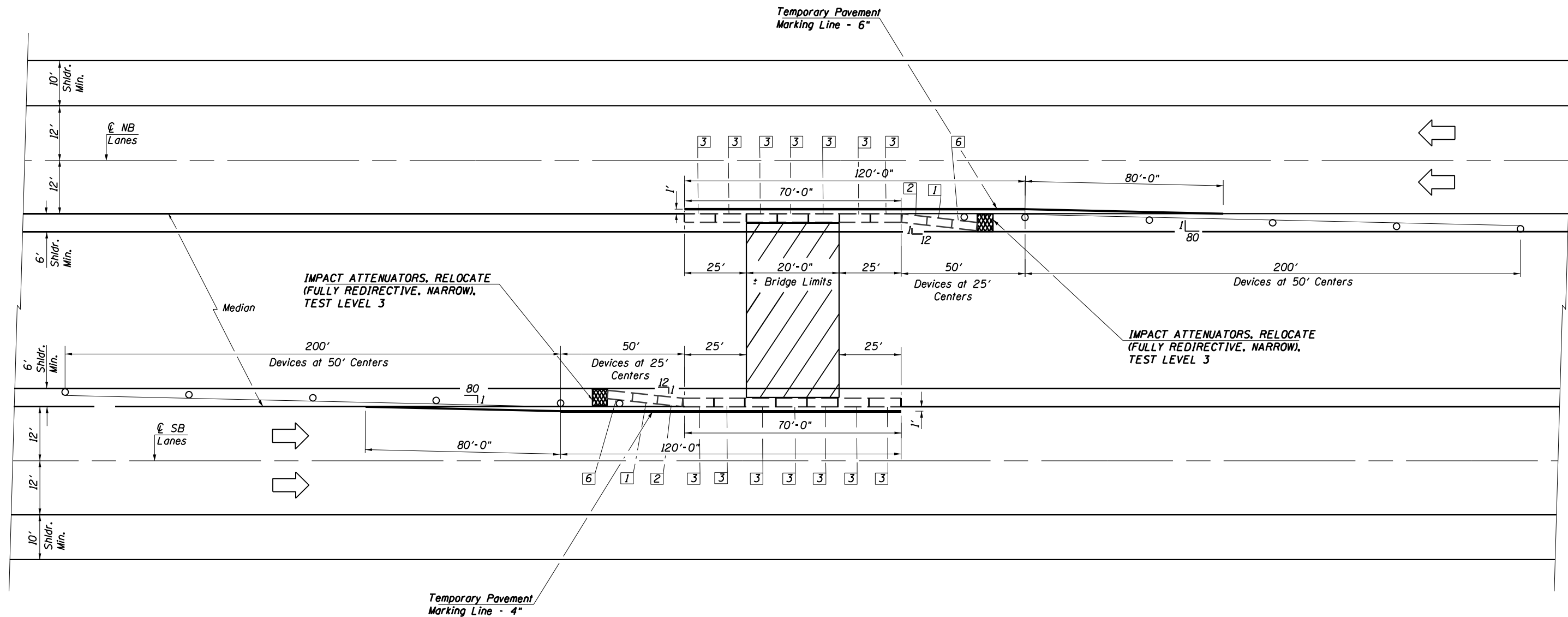
MODEL NUMBER: MAM16  
 FILE NAME: 811615

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	REVISIONS - _____
PLOT SCALE = 5/8" = 1'	CHECKED - _____	REVISIONS - _____
PLOT DATE = 5/24/23	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SN 100-0003</b>	
<b>STAGE I TYPICAL SHOULDER CLOSURE</b>	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

F.A. RTE. _____	SECTION _____	COUNTY _____	TOTAL SHEETS _____	SHEET NO. _____
VAR _____	D9 BRIDGE PAINT 2023-1	VARIOUS	36	9
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				



**Notes:**  
 Standard 701400 shall be used in conjunction with this traffic control detail. See Special Provision "Traffic Control and Protection (Special)".

Each Temporary Concrete Barrier section adjacent to an Impact Attenuator shall be pinned with 6 pins, included in the cost of the barrier. Other pins are paid as PINNING TEMPORARY CONCRETE BARRIER.

**SYMBOLS**

x	Number of pins in Temporary Concrete Barrier
/ /	Work Area
= =	Temporary Concrete Barrier. See Standard 704001
o	Type II Barricade, Drum, Or Vertical Barricade With Steady Burn Monodirectional Light. See Standard 701901.
—	Temporary Pavement Marking Tape. Yellow Along 4' Shoulder. White Along 10' Shoulder.

**TYPICAL STAGE II SHOULDER CLOSURE - PLAN VIEW**

MODEL NUMBER: MAMT5  
FILE NAME: 81815

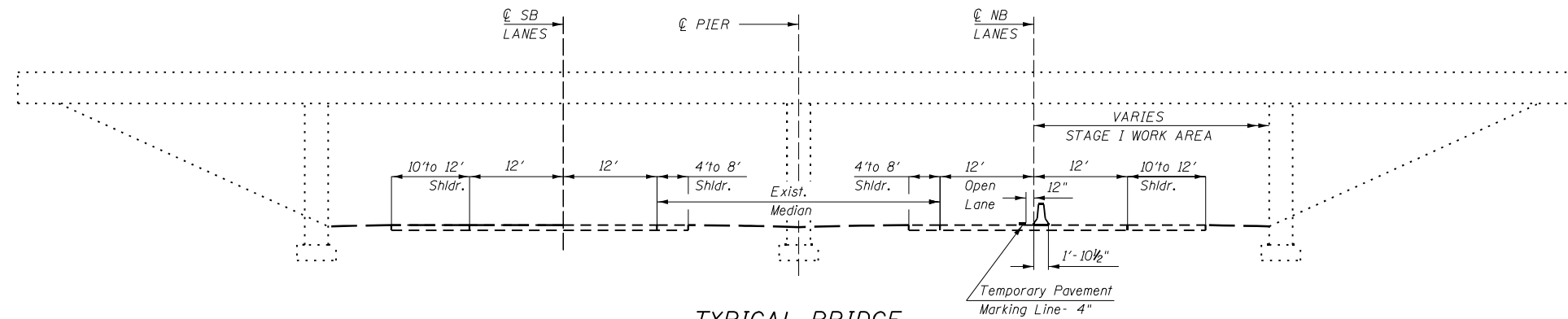
USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = 5/8" = 1'	CHECKED - _____	REVISED - _____
PLOT DATE = 5/20/23	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

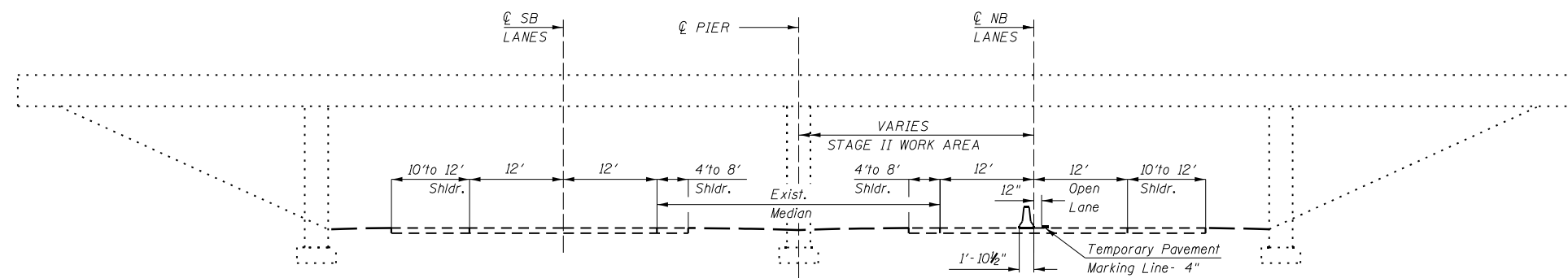
**SN 100-0003  
STAGE II TYPICAL SHOULDER CLOSURE**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	10
CONTRACT NO. 78882				
ILLINOIS FED. AID PROJECT				



TYPICAL BRIDGE  
STAGE I CONSTRUCTION  
SHOWING NB LANES  
SB LANES SIMILAR BY 180° ROTATION  
(SN 002-0026 LOOKING WEST)



TYPICAL BRIDGE  
STAGE II CONSTRUCTION  
SHOWING NB LANES  
SB LANES SIMILAR BY 180° ROTATION  
(SN 002-0026 LOOKING WEST)

MODEL NUMBER: MAM16  
 FILE NAME: 811615

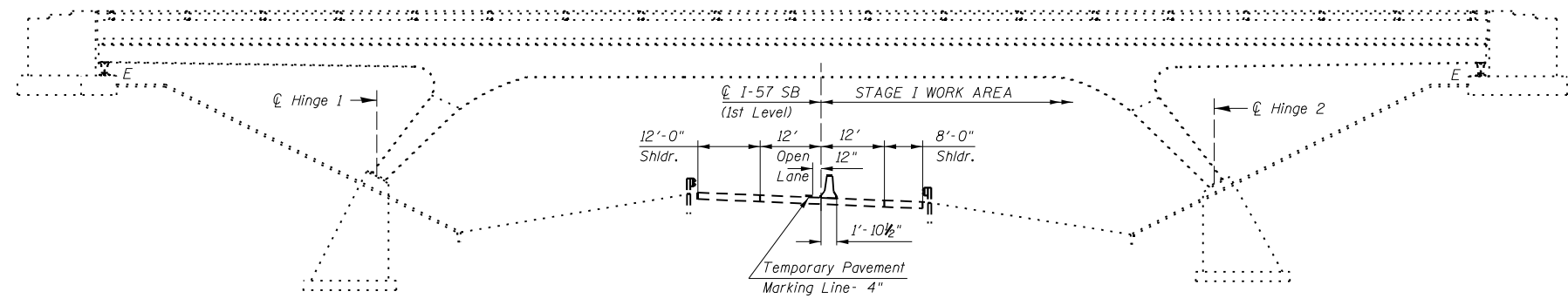
USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 5/32" = 1"	CHECKED - _____	REVISED - _____
PLOT DATE = 5/20/23	DATE - _____	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

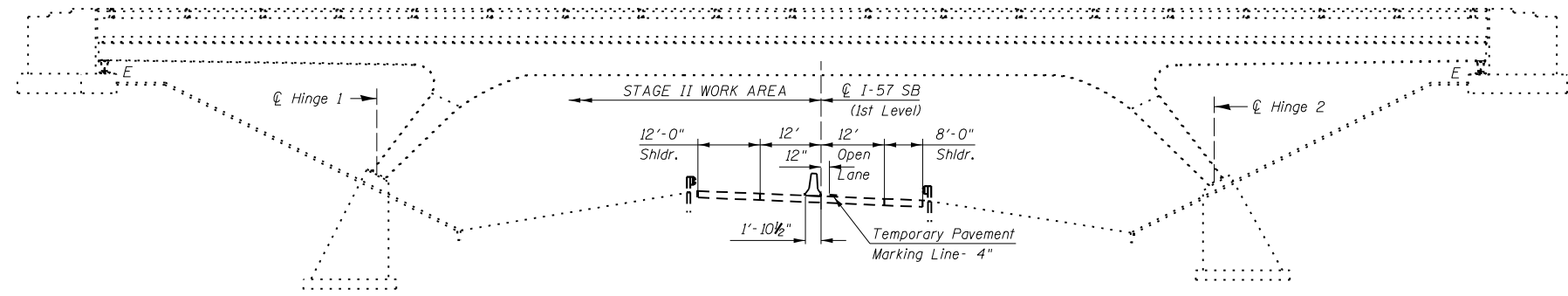
**SN 002-0026**  
**STAGE CONSTRUCTION DETAILS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	11
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				



TYPICAL BRIDGE  
STAGE I CONSTRUCTION  
(LOOKING NORTH)



TYPICAL BRIDGE  
STAGE II CONSTRUCTION  
(LOOKING NORTH)

MODEL NUMBER: MAM16  
FILE NAME: 210115

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 5SCALES	CHECKED - _____	REVISED - _____
PLOT DATE = 5DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SN 041-0060**  
**STAGE CONSTRUCTION DETAILS**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	12
CONTRACT NO. 78882			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

Illinois Division of Highway Specifications with Special Provisions for C.B. & Q. R.R. shall apply for: Field Paint, Membrane Waterproofing, Waterproofing, Concrete, Porous granular Embankment, Railroad Embankment, Corrugated Metal Pipe-Plain and Perforated.

Inspection shall be by the Illinois Division of Highways. All materials and workmanship for Struct. Steel shall be in accordance with A.R.E.A. Specifications for design, materials and workmanship.

Class X Concrete shall be used throughout. All exposed corners of concrete to have 3/4" chamfer. All Structural Steel shall be inspected by the Illinois Division of Highways before painting.

All Paint shall be furnished & applied by the Contractor. All Structural Steel shall receive one shop coat of red lead paint & two field coats of Aluminum paint in accordance with Articles 56.1 to 56.8 inclusive of the Standard Specifications.

Class A Excavation for Structures shall be paid for as measured in accordance with Illinois Division of Highway Specifications - Top of excavation to be the average elevation of the final subgrade line.

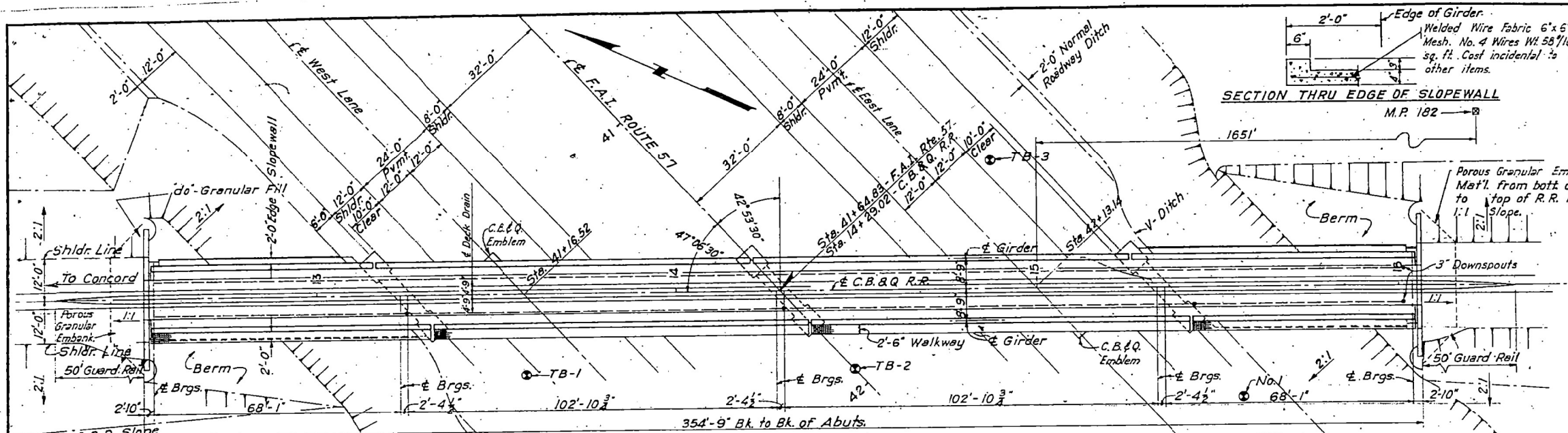
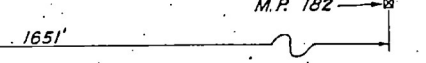
Back filling to be done according to Article 50.10 of the Standard Specifications.

The Contractor shall drive one Test Pile at each abutment and each Pier in permanent locations as directed by the Engineer, to bearing capacity indicated for Piers and Abutments.

Boring Data are shown on the plans only as a guide to bidder in estimating soil conditions which may be encountered. The C.B. & Q. R.R. will furnish emblems to be connected to structural frame.

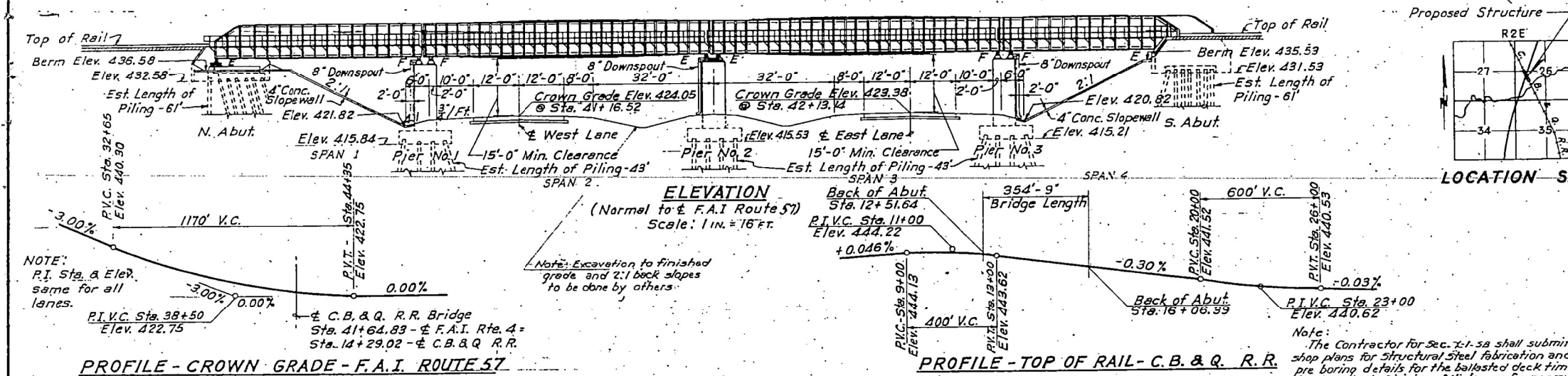
Design Loading -  
A.R.E.A. Specification - 1958  
Coopers E-72 with Steam Impact  
Design Stresses:  
fs = 18,000 p.s.i. for Structural Steel  
fs = 20,000 p.s.i. for Intermediate Grade Reinforcement Steel.  
fc = 1000 p.s.i. with earth pressure  
v = 75 p.s.i. in pier footings  
u = A.R.E.A. Specifications - 1958  
Bearing on concrete = 150 p.s.i.  
n = 10

**SECTION THRU EDGE OF SLOPEWALL**



**PLAN**  
Scale: 1 in. = 16 ft.

FOR INFORMATION ONLY SN 100-0003



**ELEVATION**  
(Normal to F.A.I. Route 57)  
Scale: 1 in. = 16 ft.

**LOCATION SKETCH**

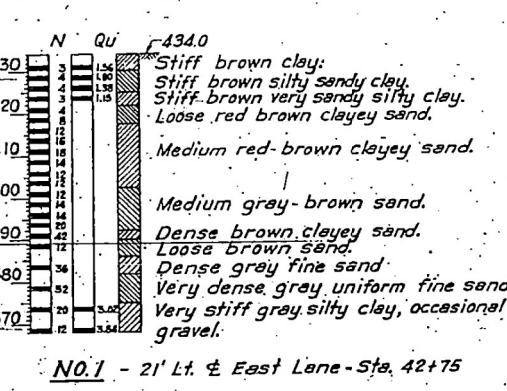
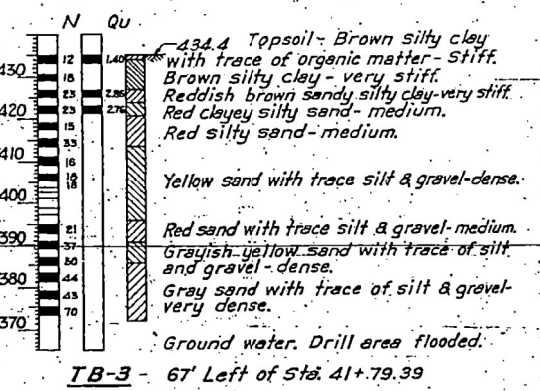
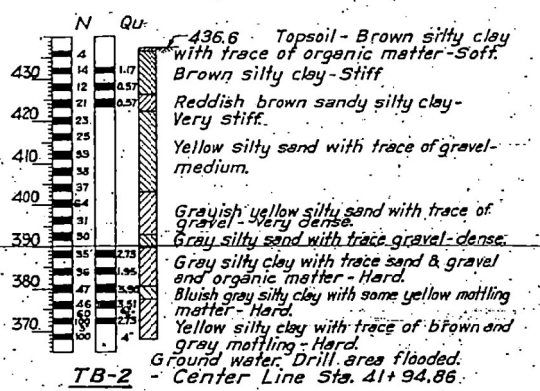
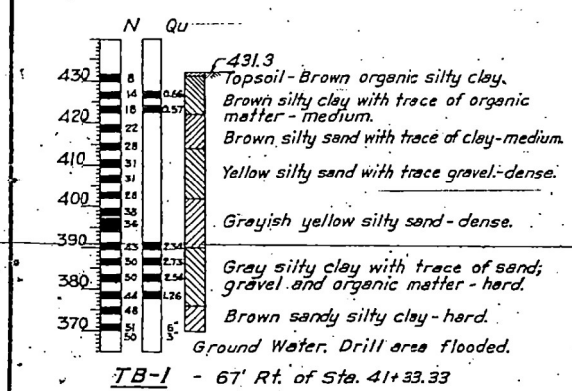
NOTE:  
P.I. Sta. & Elev. same for all lanes.

NOTE: Excavation to finished grade and 2:1 back slopes to be done by others.

Note:  
The Contractor for Sec. XI-6SB shall submit shop plans for structural steel fabrication and pre-boring details for the balked deck timbers to the Illinois Division of Highways for approval before fabrication of either.

**TOTAL BILL OF MATERIAL**

ITEM	SUPERSTR.	SUBSTR.	TOTAL
Class X Concrete	Cu. Yds.	566.9	566.9
Reinforcement Bars	Lbs.	37,450	37,450
Structural Steel	Lbs.	903,000	903,000
Class A Excavation for Struct. Cu. Yds.		739	739
Concrete Piles	Lin. Ft.	6,029	6,029
Test Piles	Each	5	5
Slope Wall	Sq. Yds.	380	380
Timber Deck	Lump Sum	1	1
Name Plates	Each		2
Porous Granular Embankment	Cu. Yd.	135	135
Deck Drains	Lin. Ft.	690	690



STRUCTURES BY: FELL & WHEELER, CONSULTING ENGINEERS, TULSA, OKLAHOMA

PLANS FOR STRUCTURES DRAWN April 22, 1959  
ENGINEER OF PUBLIC WORKS & BUILDINGS

**GENERAL PLAN AND ELEVATION - C.B. & Q. R.R. - XI-6SB**

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS	PROJECT IG-57-1(1)S STATION 41+64.83	COUNTY WILLIAMSON
REVISIONS	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

HOMER L. CHASTAIN & ASSOCIATES  
CONSULTING ENGINEERS  
DECATUR, ILLINOIS

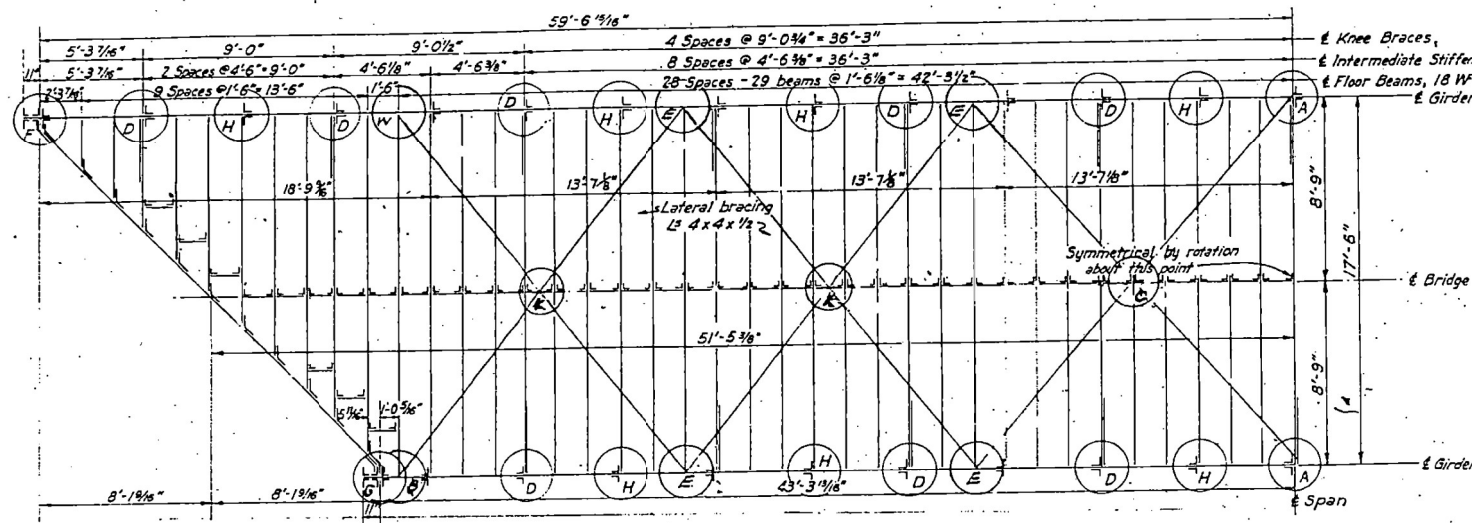
F.A.I. Route 57, Sec. XI-6SB, Williamson County, Bridge

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SN 100-0003

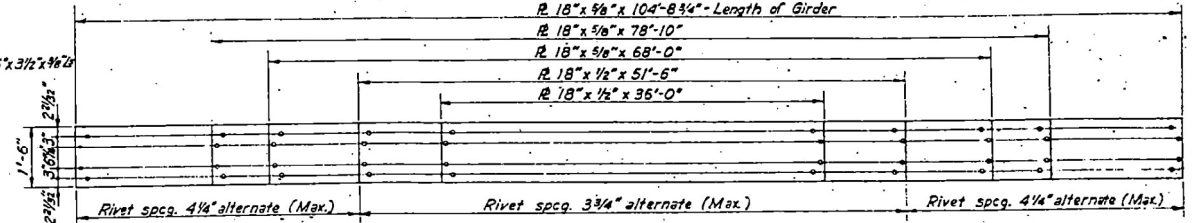
USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5 SCALES	DRAWN -	REVISED -
PLOT DATE = 5 DATES	CHECKED -	REVISED -
	DATE	REVISED -

SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	13	
			CONTRACT NO. 78882		
ILLINOIS FED. AID PROJECT					



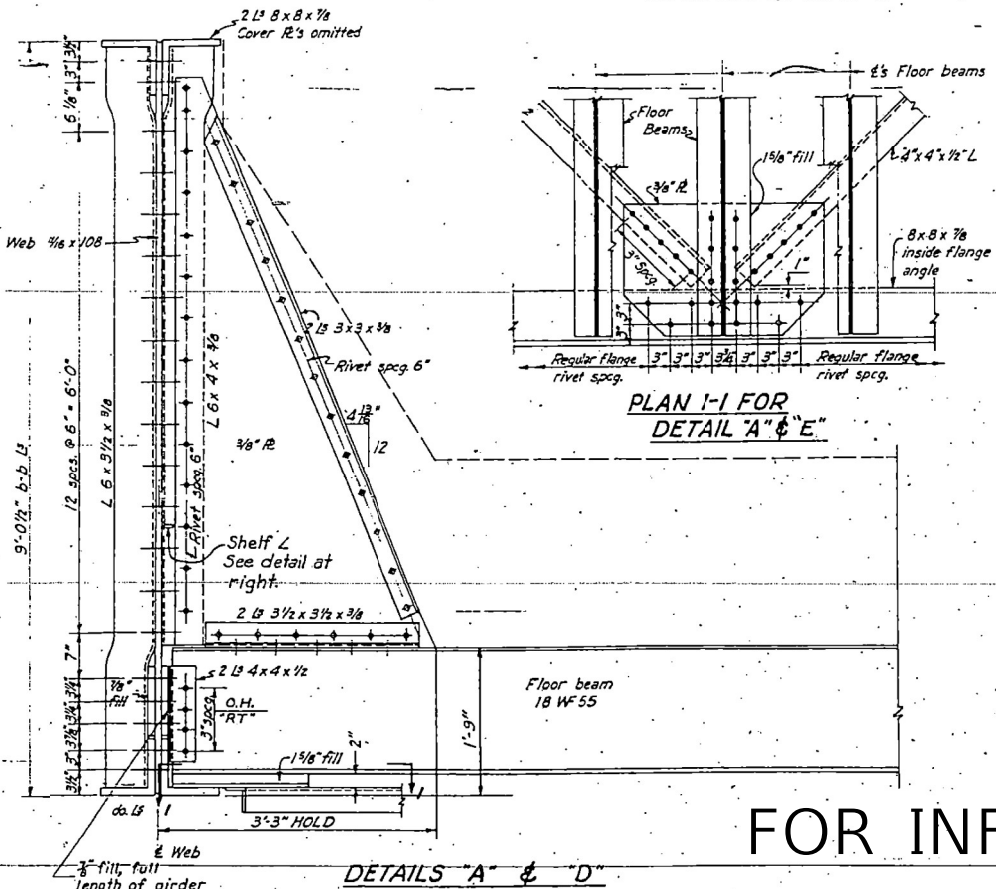
**HALF STRUCTURAL FRAMING PLAN- SPANS 2 & 3**  
1/4" = 1'-0"

See Sh. No. 3 for Details "F", "G"  
See Sh. No. 4 for Detail "K"  
See Sh. No. 4 for Detail "W"

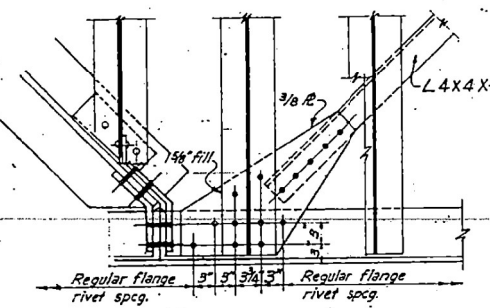


**TOP & BOTTOM COVER PLATES**

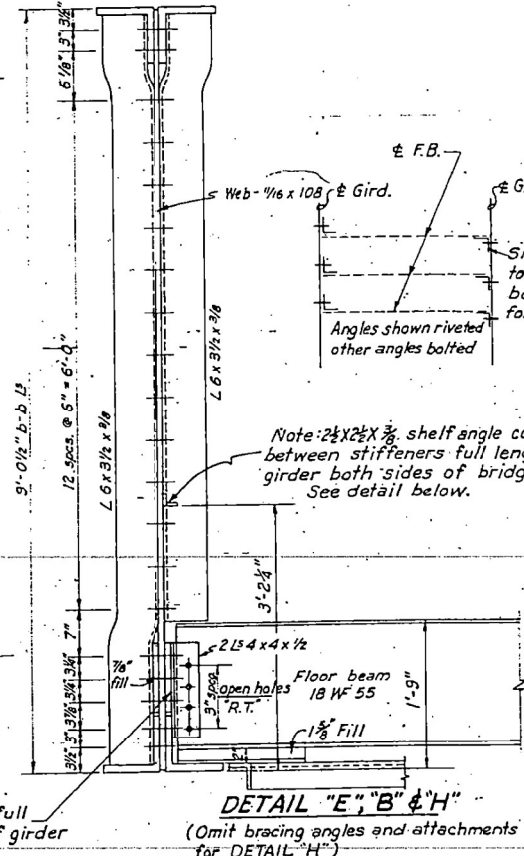
All cover plates centered  
Rivets in vertical legs of flange angles shall be spaced not more than 4 1/2" alternate.  
See detail views for variations from maximum spacing shown.



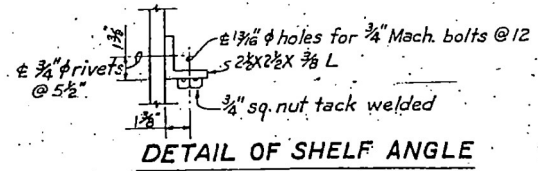
**DETAILS "A" & "D"**  
(Omit bracing angles and attachments for DETAIL "D")



**PLAN I-I FOR DETAIL "B"**

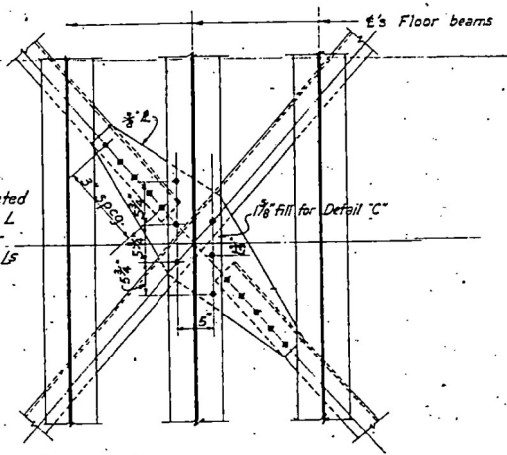


**DETAIL "E", "B" & "H"**  
(Omit bracing angles and attachments for DETAIL "H")

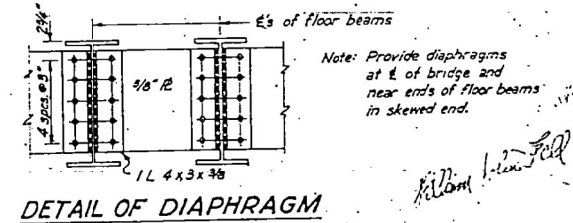


**DETAIL OF SHELF ANGLE**

Note to Shop:  
Omit all splices in flange angles and cover plates, if possible.  
Fabricators name plate shall be furnished and fixed to one girder of each span.  
Name plates shall face track.



**DETAIL "C"**  
Diaphragms not shown



**DETAIL OF DIAPHRAGM**

- NOTES:
- All rivets 7/8".
  - Fills thicker than 1" may be built up of plates tack-welded.
  - No two members may be spliced in the same panel.
  - 1/2" cover plates may not be spliced.
  - Ream all floor beam connections to a hardened template R.T.
  - Keep top of floor beams in a plane.

**FOR INFORMATION ONLY SN 100-0003**

STRUCTURES BY: FELL & WHEELER, CONSULTING ENGINEERS, TULSA, OKLAHOMA

REVISIONS		GIRDER DETAILS - C.B. & Q. R.R. - XI-65B	
NO.	DATE	INITIALS	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS	PROJECT FAI-57 SECTION XI-65B STATION 41+64.83	COUNTY WILLIAMSON	PROJECT NO. HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS
---	--	----------------------	--

FAI Route 57, Section XI-65B, Williamson County, Bridge

MODEL, SHEDDING, FILE NAME, SHEETS

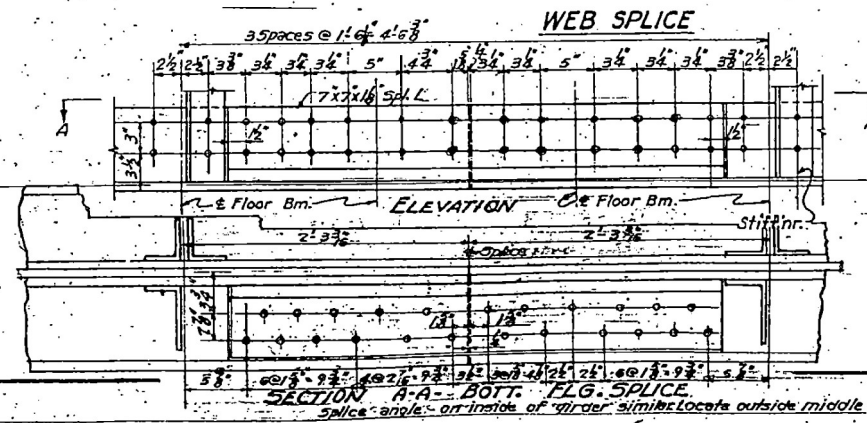
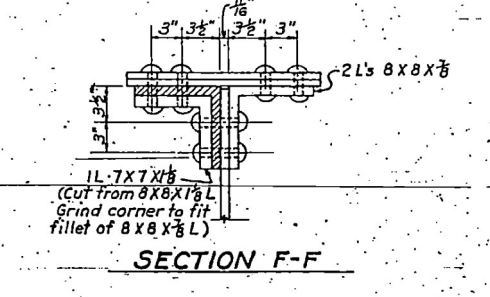
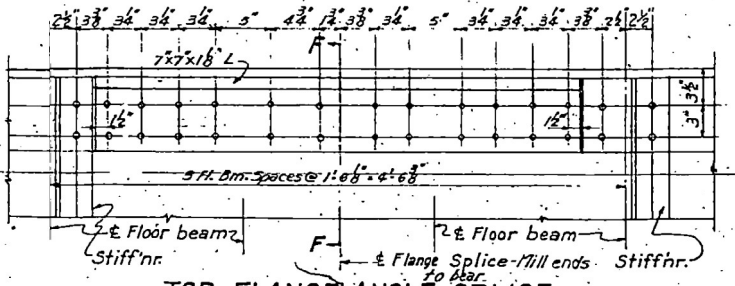
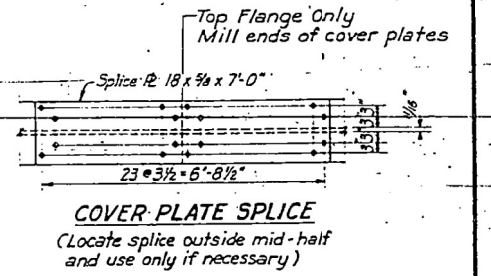
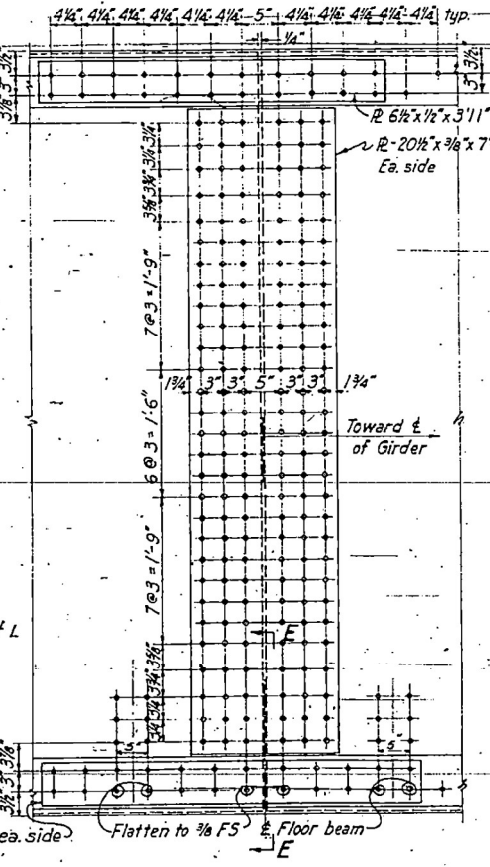
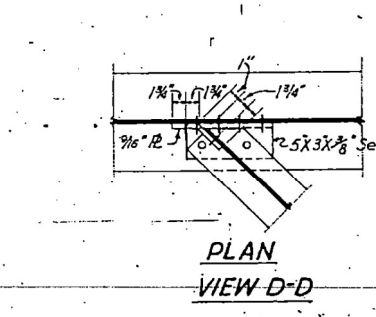
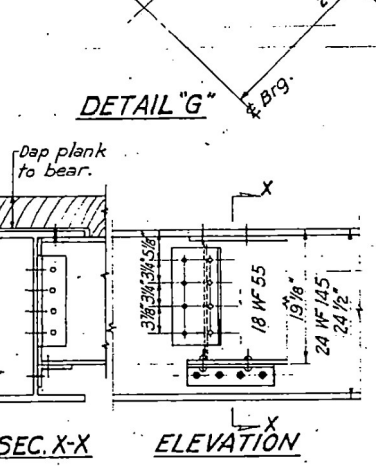
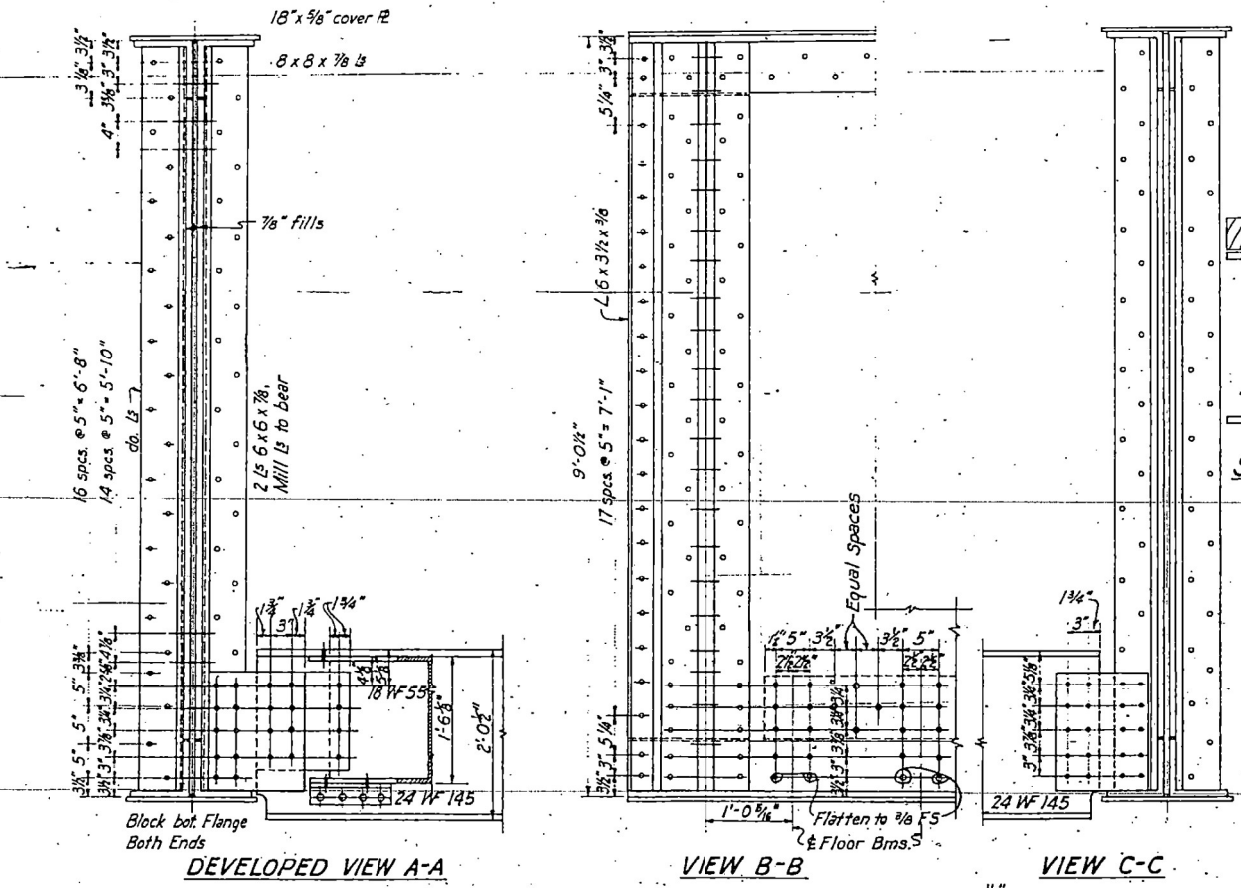
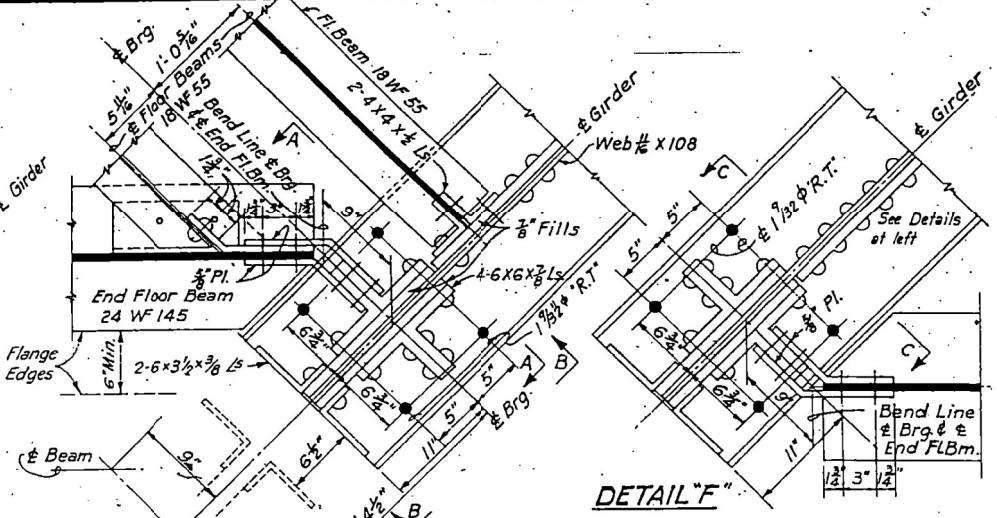
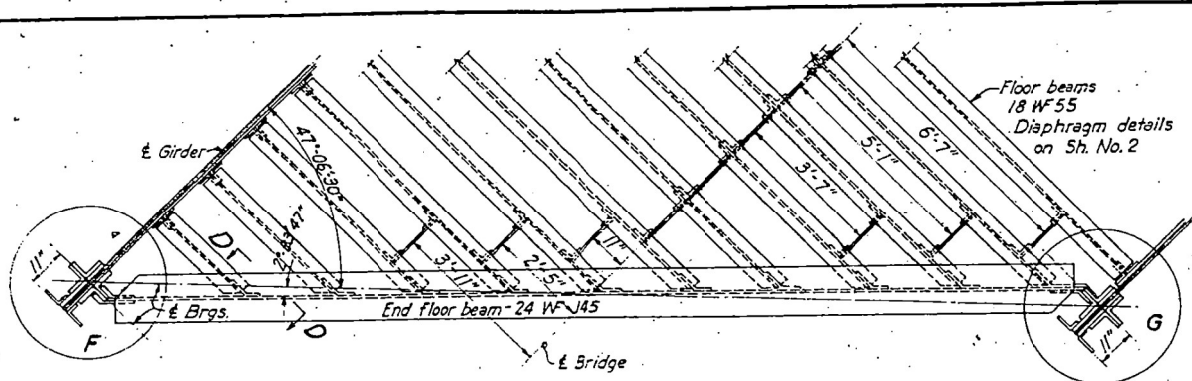
USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8" = 1'-0"	CHECKED -	REVISED -
PLOT DATE = 5/24/55	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	14
CONTRACT NO. 78882			ILLINOIS FED. AID PROJECT	

FOR  
INFORMATION  
ONLY  
SN 100-0003



- NOTES:
1. All rivets 7/8".
  2. Fills thicker than 1" may be built up of plates tack-welded.
  3. No two members may be spliced in the same panel.
  4. 1/2" cover plates may not be spliced.
  5. Ream all floor beam connections to a hardened template 'R.T.'
  6. Keep top of floor beams in a plane.
  7. Locate web splices within middle 1/3 of span.

REVISIONS		DRAWN BY DATE	
NO.	DATE	INITIALS	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		DRAWN BY DATE BSM 10-58
FAI-57 SECTION XI-658 PROJECT STATION 41+64.83	COUNTY	CHECKED BY DATE
WILLIAMSON		PROJECT NO.
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS - DECATUR, ILLINOIS		SHEET NO.

FAI Route 57, Section XI-658, Williamson County, Bridge

MODEL - SHORREMAN  
FILE NAME - 8125

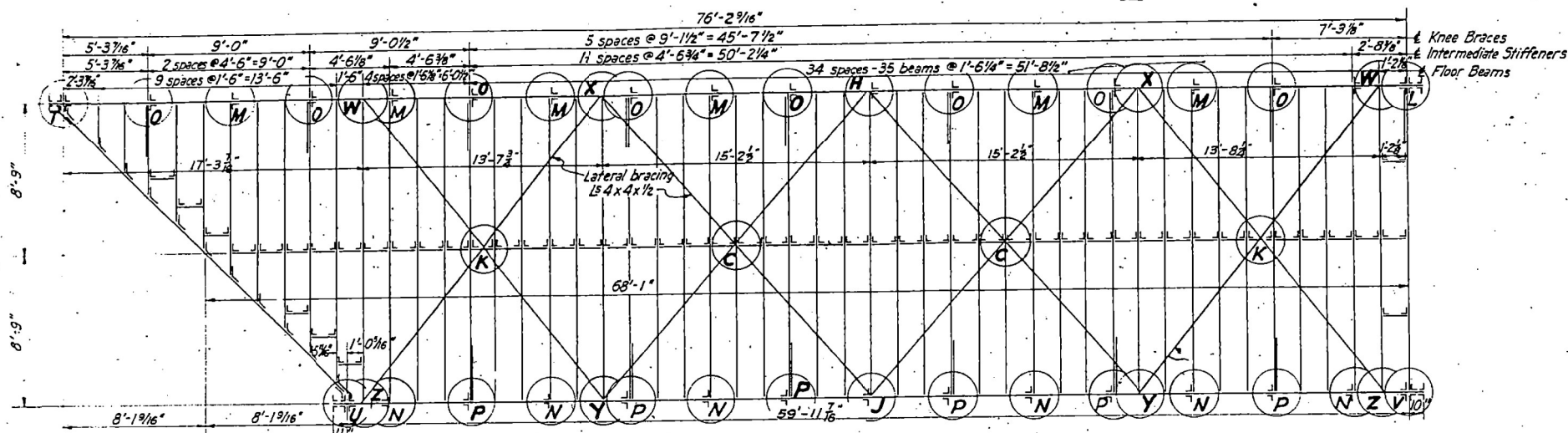
USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 10/58	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SN 100-0003

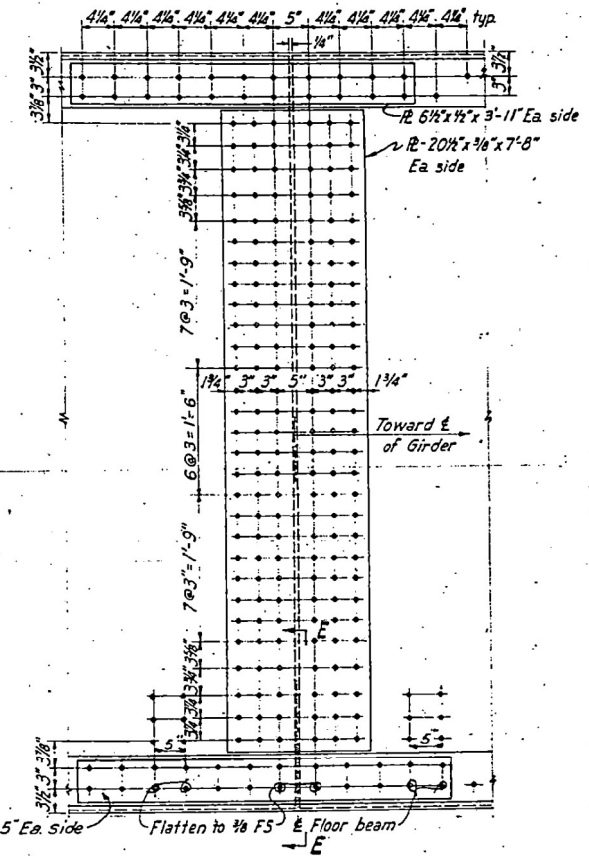
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	15
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				



**STRUCTURAL FRAMING PLAN**

See Sh. No. 2 for Detail C  
 The details of the skewed end floor beam are as shown on Sh. No. 3 except for end stiffeners.  
 See Sh. No. 5 for Details 'W', 'X', 'Y', 'Z'



**WEB SPLICE**

May be located at any floor beam not carrying a stiffener, in a panel containing no other splice, and within middle 5 of span

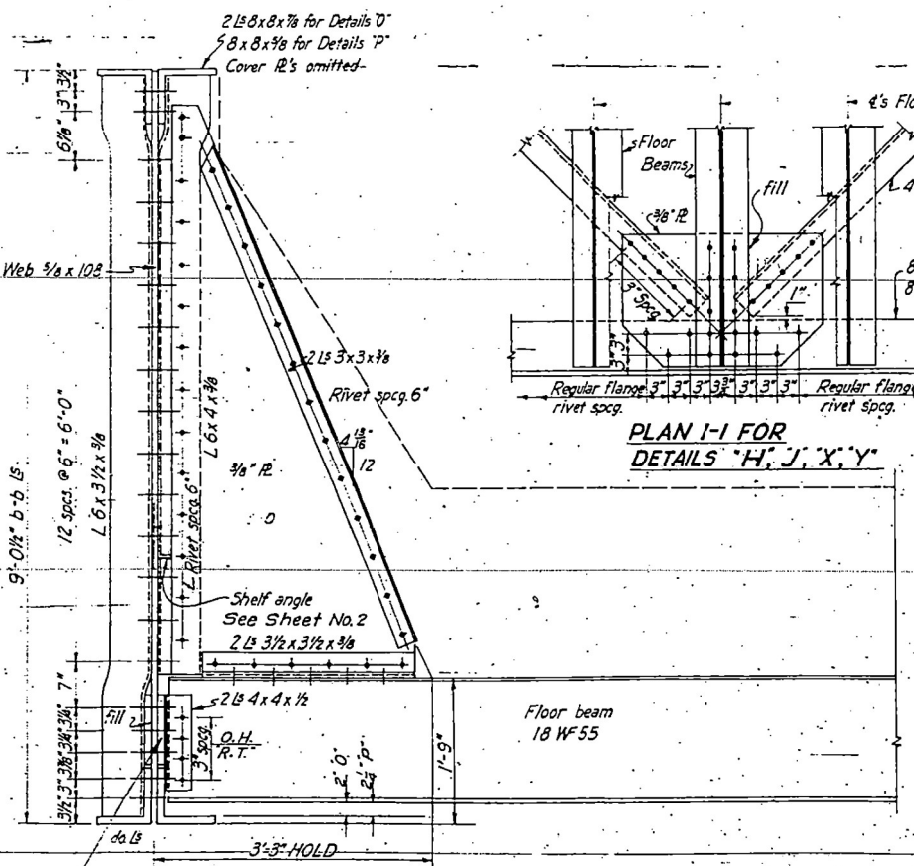
See Notes on Sh. 3 of 11

**COVER PLATE NOTES**

Long Girder: 18" x 3/8" R full length, top and bottom.  
 18" x 1/2" x 38" centered, top and bottom.  
 Max. Rivet Spacing:  
 8" cover R, 4 1/2" alternate.  
 1/2" cover R, 3 1/2" alternate.  
 Vertical leg of flange angle, 4 1/2" alternate.  
 Short Girder: 18" x 3/8" R full length, top and bottom.  
 Max. Rivet Spacing:  
 Cover R's, 3 1/2" alternate  
 Vertical leg of flange angle, 4 1/2" alternate.

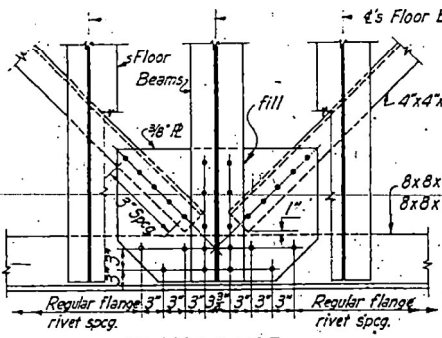
**END SPANS**

REVISIONS		GIRDER DETAILS - C.B. & Q.R.R. - XI-65B	
NO.	DATE	INITIALS	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

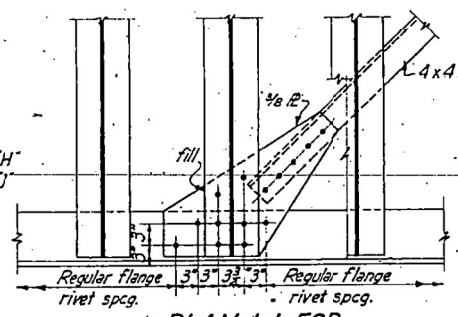


**DETAILS "O" & "P"**

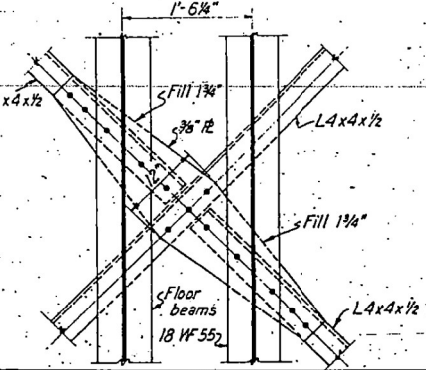
Full length of girders



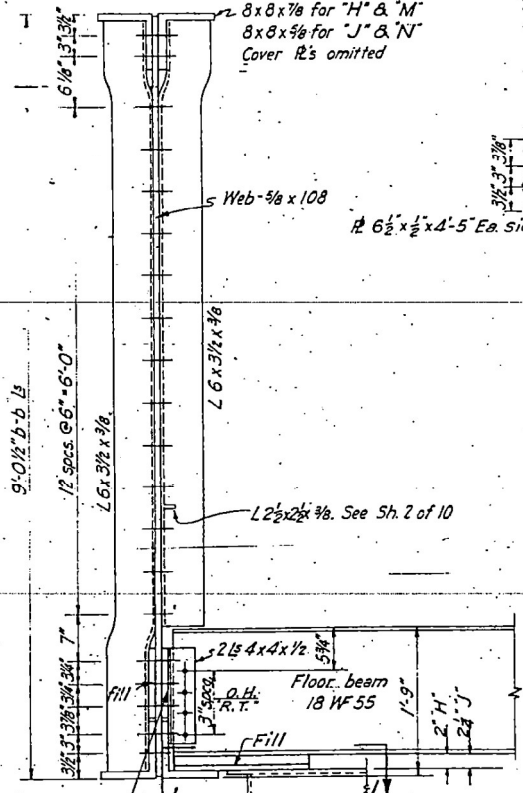
**PLAN I-I FOR DETAILS "H", "J", "X", "Y"**



**PLAN I-I FOR DETAILS "W" & "Z"**



**DETAIL "K"**



**DETAILS "H", "J", "M" & "N"**

(Omit Bracing Ls and attachments for Details "M" & "N")

FOR INFORMATION ONLY SN 100-0003

STRUCTURES BY: FELL & WHEELER, CONSULTING ENGINEERS, TULSA, OKLAHOMA

FAI Route 57, Sec. XI-65B, Williamson County, Bridge

USER NAME = SUSERS	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = SCALES	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

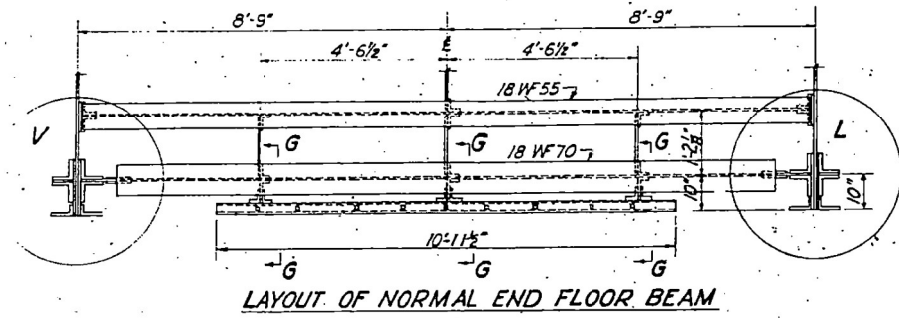
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SN 100-0003

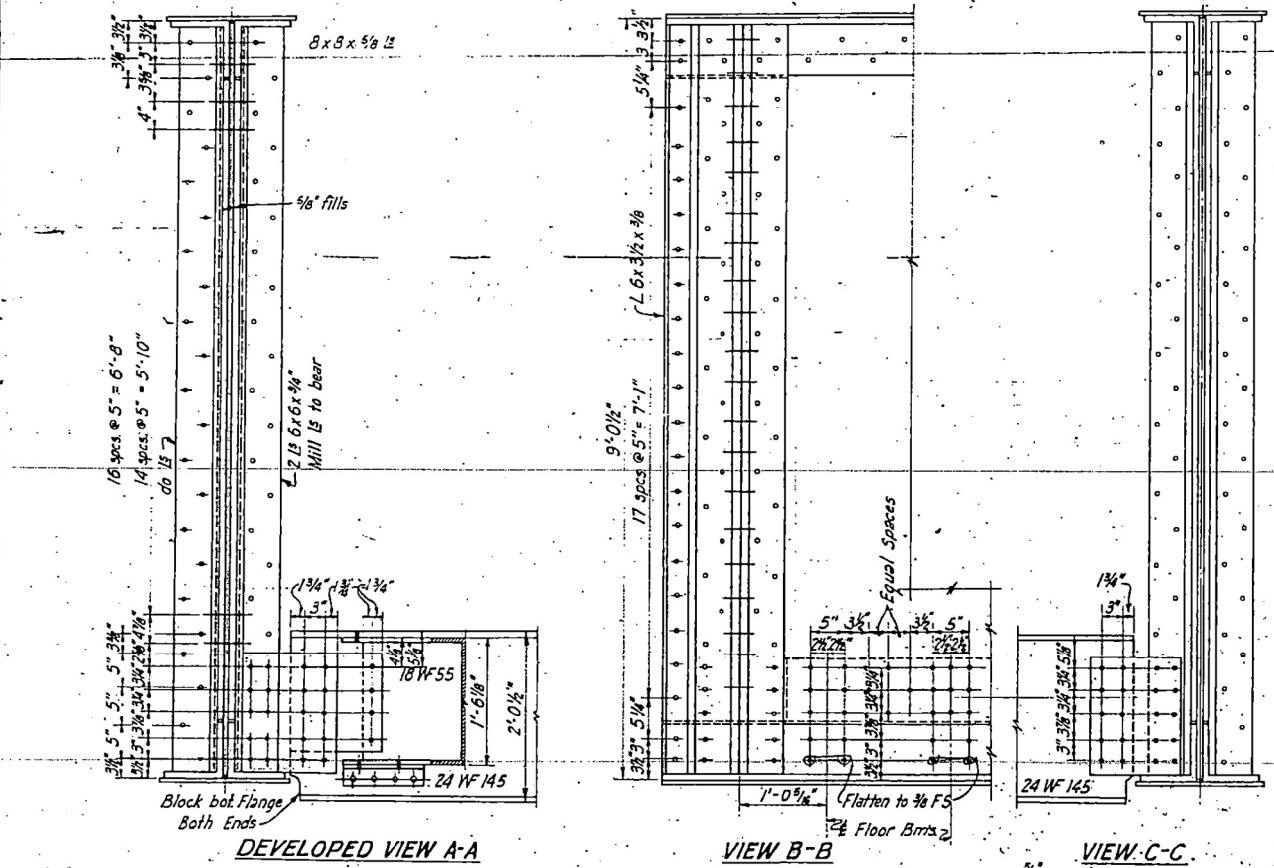
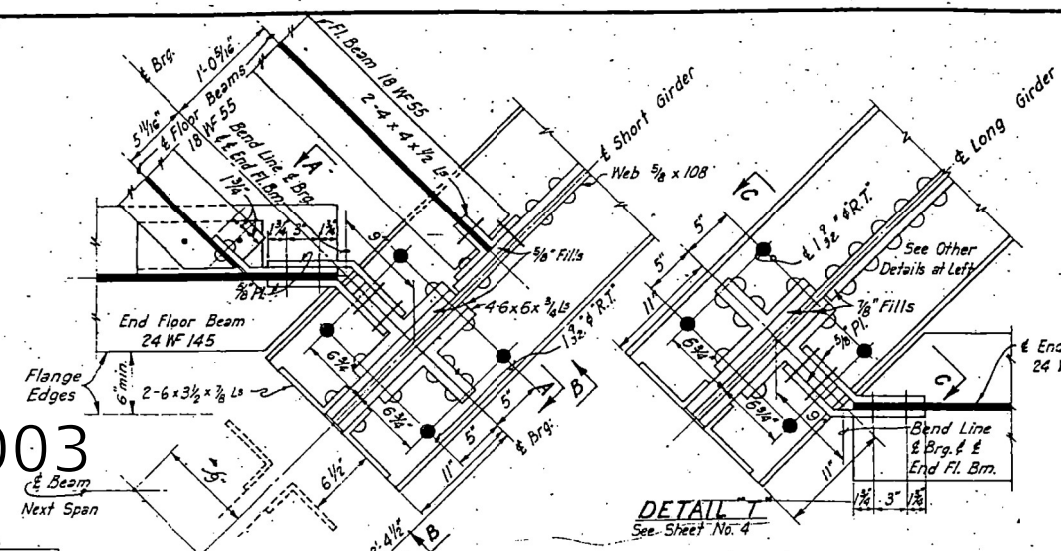
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	16
CONTRACT NO. 78882			ILLINOIS FED. AID PROJECT	

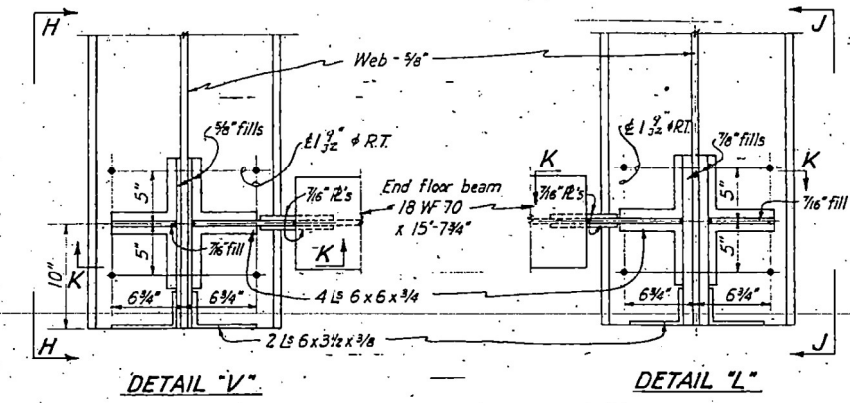




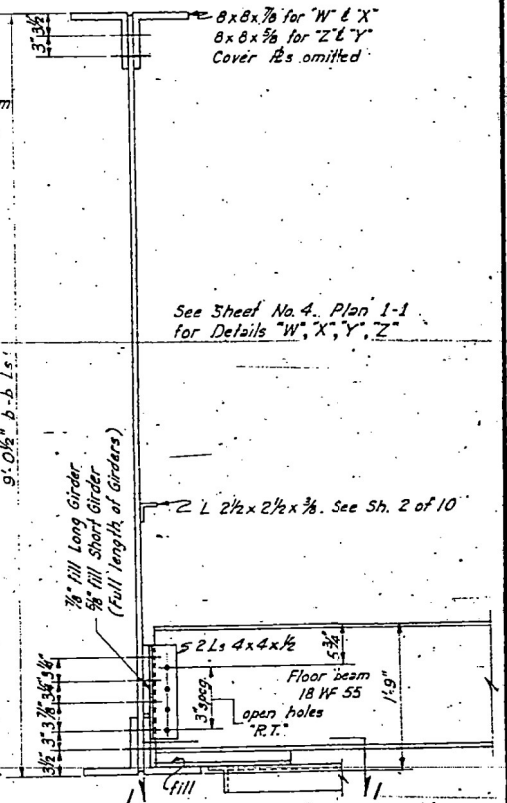
FOR INFORMATION ONLY SN 100-0003



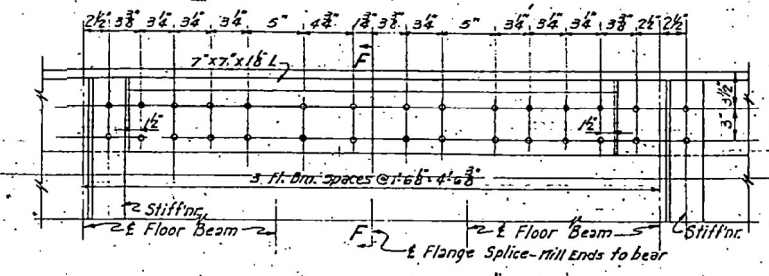
DETAIL 'U'  
See Sheet No. 4



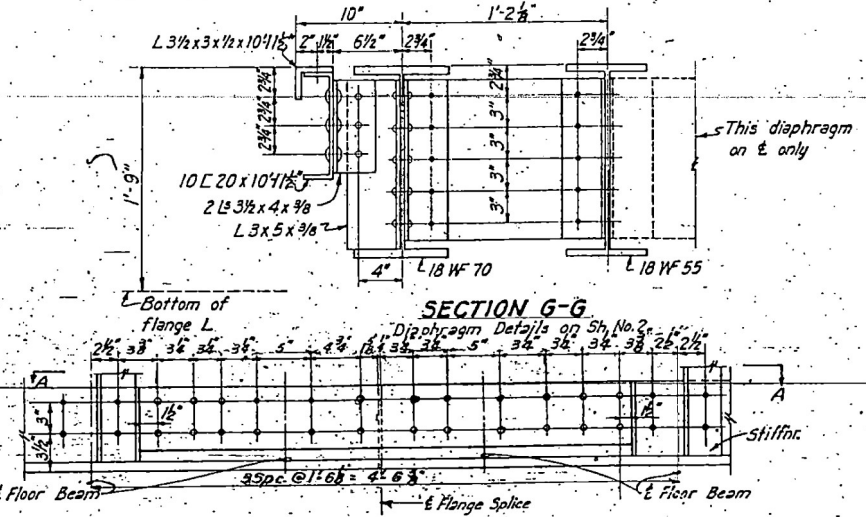
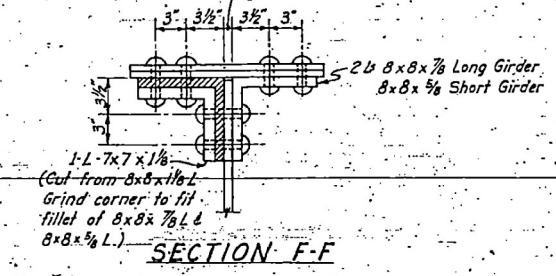
See Sh. No. 6 for Sections H-H, J-J, K-K



- Notes:
- All rivets 7/8".
  - Fills thicker than 1" may be built up of plates tack-welded.
  - No two members may be spliced in the same panel.
  - 1/8" or 1/2" cover plates may not be spliced.
  - Ream all floor beam connections to a hardened steel template (R.T.).
  - Keep top of floor beams in a plane.



Plan of top flange angle splice similar to Sec. A-A for both flange except that cut angles are milled to bear  
STRUCTURES BY: FELL & WHEELER, CONSULTING ENGINEERS, TULSA, OKLAHOMA



LOWER FLANGE ANGLE SPLICE  
Near angle spliced. Splice L 7x7x1/8 ground to fit flange angle.

REVISIONS		GIRDER DETAILS - C.B. & Q.R.R. - XI-65B	
1	DATE INITIALS	STATE OF ILLINOIS	DRAWN BY DATE
2		DEPARTMENT OF PUBLIC WORKS & BUILDINGS	CHECKED BY DATE
3		DIVISION OF HIGHWAYS	BOOK NUMBER
4		FAI-57 SECTION X-7-65B PROJECT	PROJECT NO.
5		WILLIAMSON COUNTY	SHEET NO.
6		HOMER L. CHASTAIN & ASSOCIATES	
7		CONSULTING ENGINEERS	
8		DECATUR, ILLINOIS	
9			
10			

FAI Route 57, Section X-7-65B, Williamson County, Bridge

MODEL, SHED, DIMENTS  
FILE NAME, SHEETS

USER NAME = SUSERS	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 5/8" = 1'-0"	CHECKED -	REVISED -
PLOT DATE = 5/24/58	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SN 100-0003

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

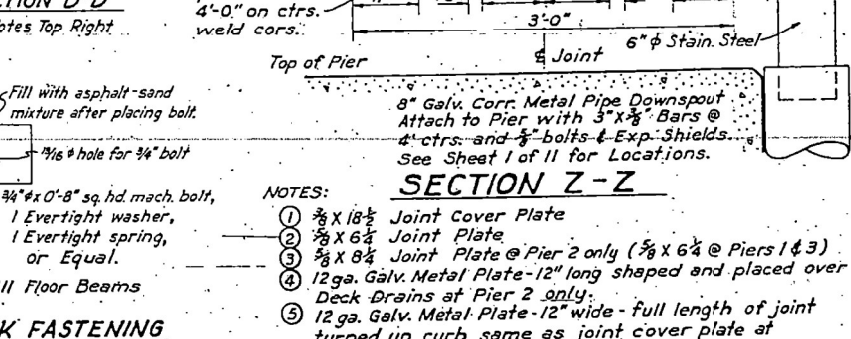
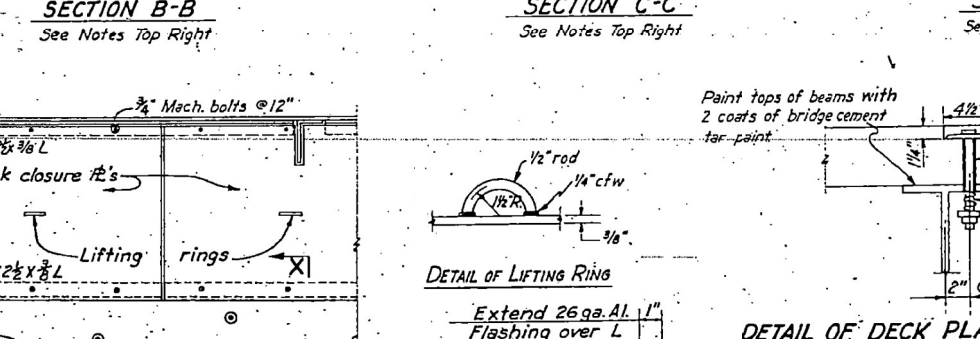
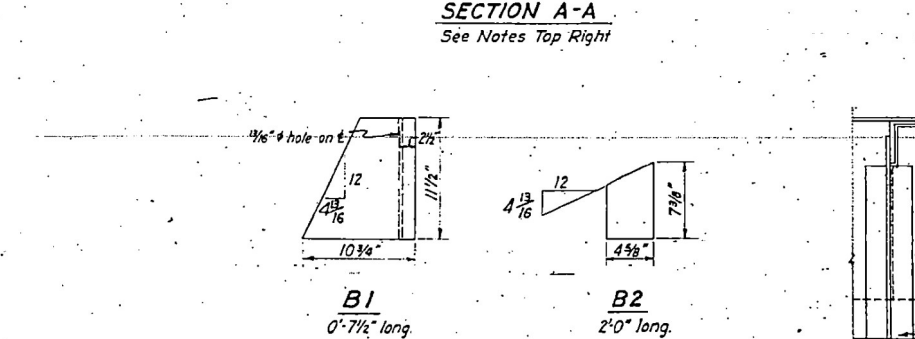
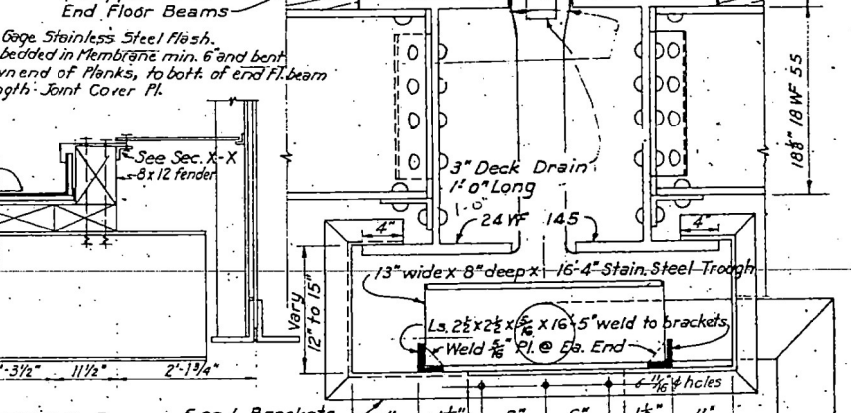
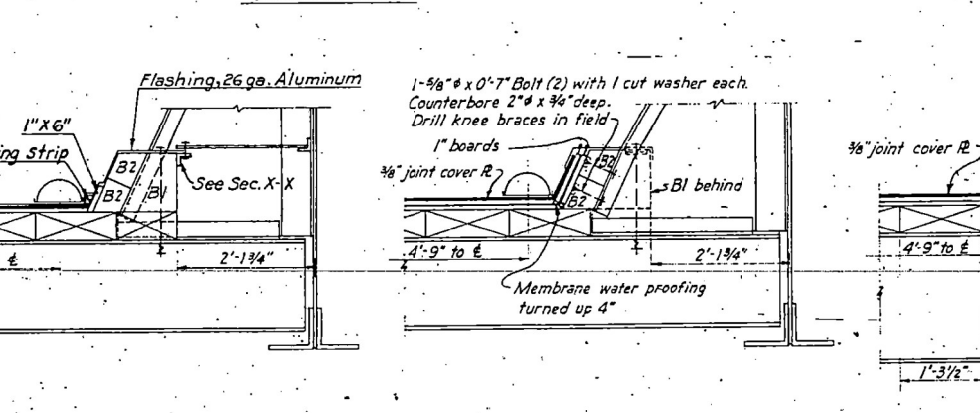
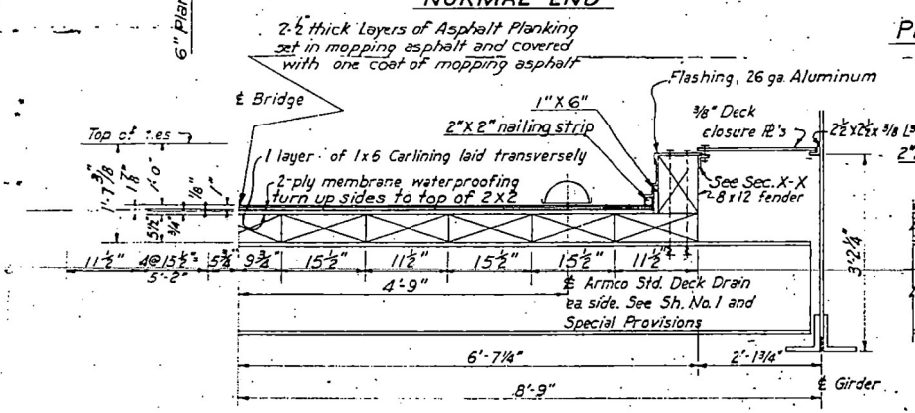
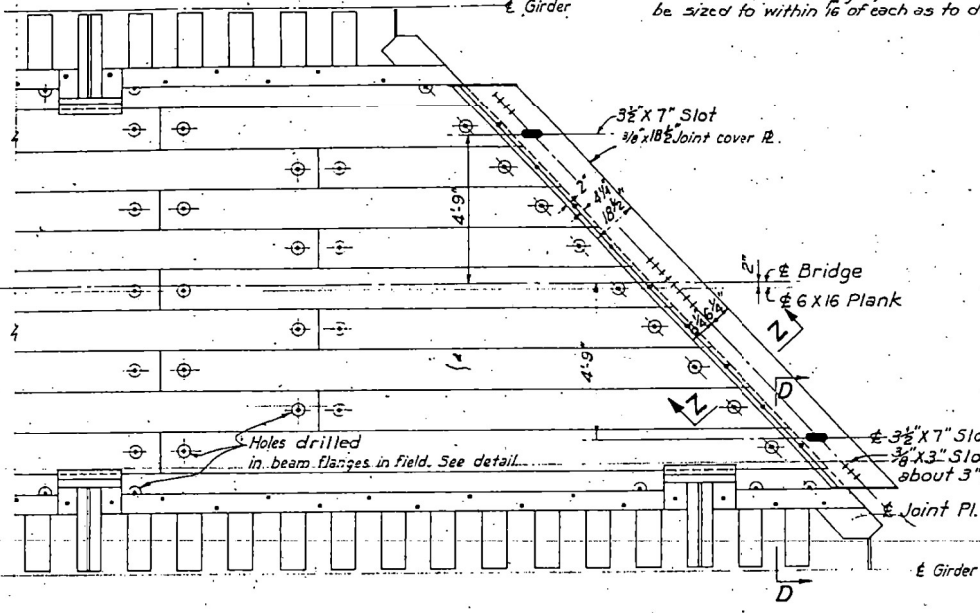
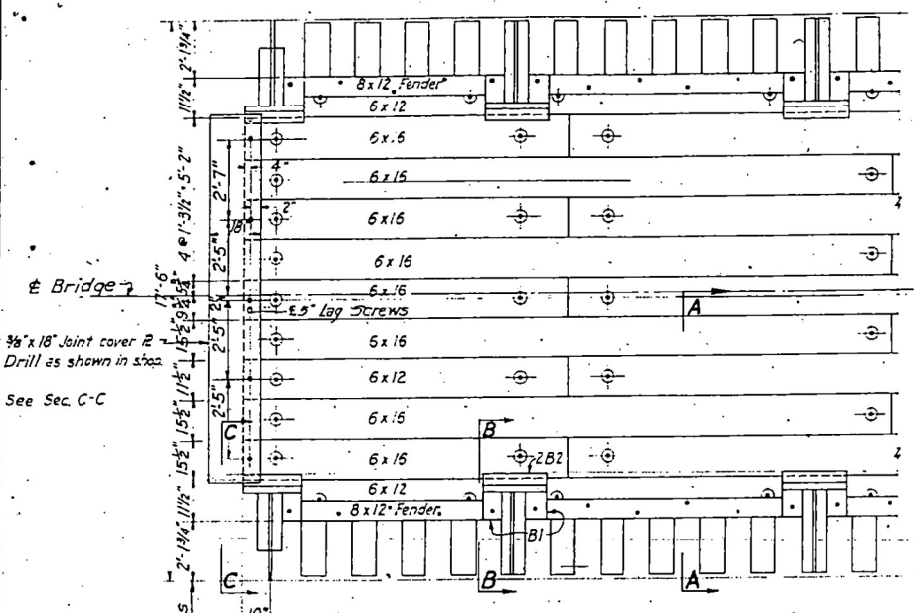
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	17
CONTRACT NO. 78882				
ILLINOIS FED. AID PROJECT				



All Planks must be butted within 2" of the  $\pm$  of a floor beam.  
All planks to have tolerance of 0" over and  $\frac{1}{8}$ " under as to length, and must be sized to within  $\frac{1}{8}$ " of each as to depth.

**GENERAL NOTES**

Materials and installation methods shall conform to the requirements of A.R.E.A. specifications and the Special Provisions.  
Bolts for fastening timbers shall be  $\frac{3}{4}$ " square head machine bolts with Evertight washers and Evertight springs, or equal except where otherwise shown.  
Paint tops of beams with 2 coats of bridge cement tar paint or equal.  
Fasten lower layer of carlino to floor planks with 8d nails abt. 1'-0" ctrs. and driven flush to prevent injury to waterproofing. Fasten 1"x6" Boards to fenders with 8d nails abt. 8" ctrs. Fasten 2"x2" Nailing Strips to 1"x6" boards & fenders with 15d nails abt. 1'-0" ctrs. Fasten Aluminum with 8d aluminum nails abt. 3 per ft. Nails must not be driven thru waterproofing except in fastening nailing strip to side boards and fenders.  
All timbers are to be cut or bored before treatment. All timber bored after treatment shall be pressure treated with hot creosote oil. Pre-bored timbers must be marked with care to insure proper erection. Floor planks are to fit tightly against each other with no open spaces between planks.  
Shop paint for joint cover plates: One coat of Red Lead Paint in accordance with Illinois Std. Specifications.  
All timber that will come in contact with waterproofing shall be chromate salts treated. All other timber shall be creosote treated.



**FOR INFORMATION ONLY**  
**SN 100-0003**

**TYPICAL DETAIL OF DECK CLOSURE PLATE**  
The deck closure plates shall be of  $\frac{3}{8}$ " steel and shall entirely cover the space between the fender and the girder leaving gaps not more than  $\frac{1}{4}$ " wide. Plates shall be removable from above without removing fastenings from below.

**DETAILS OF TIMBER DECK - C.B. & Q.R.R. - XI-65B**

REVISIONS	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

FAI-57 SECTION X-7-65B PROJECT  
STATION 41+ 64.83 COUNTY

WILLIAMSON

HOMER L. CHASTAIN & ASSOCIATES  
CONSULTING ENGINEERS  
DECATUR ILLINOIS

STRUCTURES BY: FELL & WHEELER, CONSULTING ENGINEERS, TULSA, OKLAHOMA

FAI Route 57, Sec. X-7, Williamson County, Bridge

MODEL SHEET NUMBER  
FILE NUMBER

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8" = 1'	CHECKED -	REVISED -
PLOT DATE = 5/24/57	DATE	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SN 100-0003

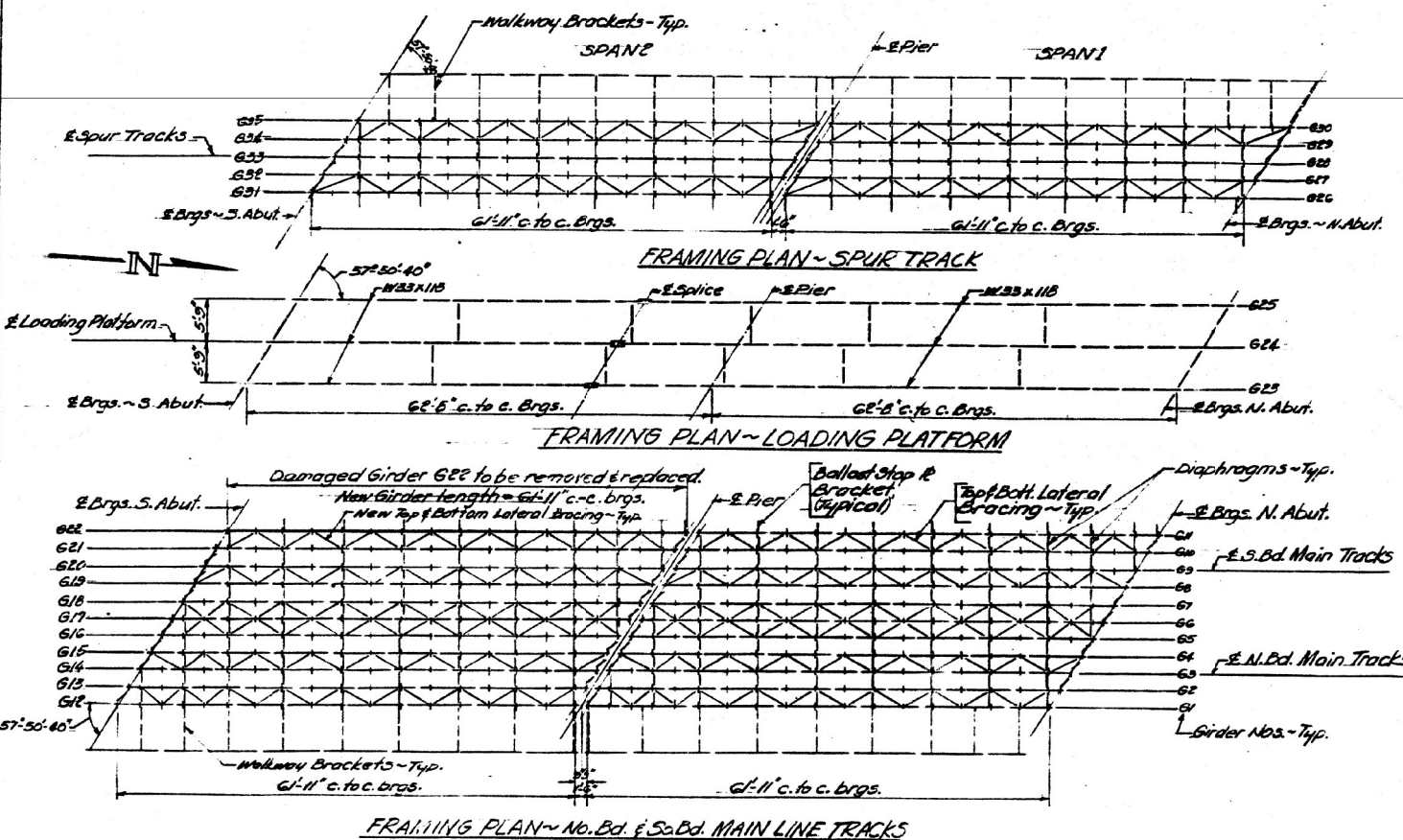
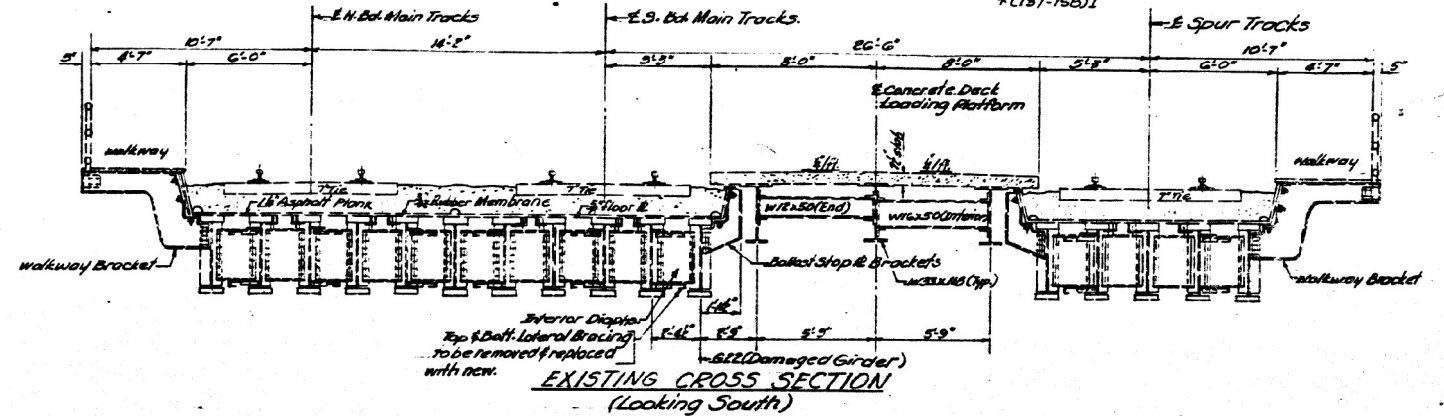
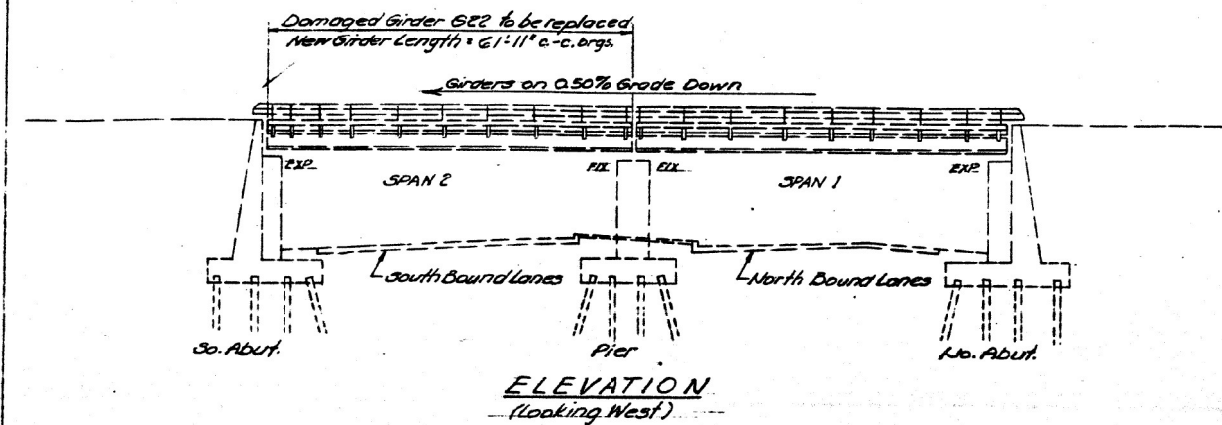


# FOR INFORMATION ONLY

## SN 002-0026

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	DESIGN	PROJECT	TOTAL SHEETS	SHEET NO.
8.14	*	ALEXANDER	18	5
F.A. RT. 100 (SBI-150) SEC. (137-15B) I				



DESIGNED Rick Brunette  
CHECKED Kenneth H. Hutter, Jr.  
DRAWN ENR  
CHECKED KRS

EXAMINED O. J. Rohan  
PASSED  
APPROVED  
DATE Aug 12 1985

**RAILWAY TRAFFIC CONTROL**

1. During girder removal; railway traffic allowed on Northbound Main and Spur lines only.
2. During girder, diaphragm and lateral bracing placement; railway traffic allowed on Northbound Main and spur lines only.
3. During bolt tightening operations; railway traffic allowed on spur line only.

- SUGGESTED REPLACEMENT PROCEDURE**
1. Raise the loading platform 8" minimum and block using metal shims between the bottom flange and the top bearing plate. Place wedges between the abutments and the ends of the beams.
  2. Tie off the ballast stop plates with 6x4" tie back bars.
  3. Remove the ballast stop plate brackets. IMPACT-TRIM. The brackets shall be match marked to insure replacement in their original locations.
  4. Remove the floor plate clamps and store for replacement.
  5. Cut top & bottom lateral bracing near E of existing channels to facilitate the removal of the damaged girder G-22.
  6. Disconnect the existing bearings from the damaged girder G-22 by removing the 4-1" x 4 1/2" top bolts.
  7. Remove the existing diaphragms and match mark to insure replacement in their original location.
  8. Remove the damaged girder G-22 as directed by the Engineer in the field and in accordance with the Special Provisions.
  9. After damaged girder removal the existing bearings shall be removed from the Abutment & Pier and sent to the lubricator for bearing modifications.
  10. Place new girder G-22 on cribbing under the bridge and adjust to the level of the abutment and pier seats. See plans.
  11. Install sliding plates on the abutment and pier brg seats.
  12. Move the new girder onto the abutment seat and position it as close as possible to its final location.
  13. Move the pier end of the new girder onto the pier seat.
  14. Move the new girder into final position making certain that the E bearings line up. Also make sure that the new girder is properly positioned with the floor & clamp bolts.
  15. Raise the new girder up and install the modified brgs.
  16. Install all of the existing diaphragms in their original locations with the bolts finger tight only.
  17. Tighten all of the diaphragm bolts.
  18. Place the new upper lateral bracing in position and drill holes in the gusset plates using the new channel as a template, then install the bolts finger tight only. Repeat for all upper lateral bracing, then tighten all upper lateral bracing bolts.
  19. Repeat step 18 for the lower lateral bracing.
  20. Reinstall the ballast stop plate brackets in their original locations.
  21. Reinstall the existing floor plate clamps.
  22. Lower the loading platform back into place and secure the bearings.
  23. Remove all the support systems used in placing the new girder and the raising of the Loading Platform.

**GENERAL NOTES**

All new structural steel shall conform to AASHTO Classification M-183. The web and flange plates of the welded girder shall be "silicon killed fine grain practice" in accordance with Article 1.2.1 of the A.R.E.A. Specifications.

Fasteners shall be high strength bolts. Bolts 5/8" open holes 1/2", unless otherwise noted.

The basic lead silico chromate paint system shall be used for shop and field painting of new structural steel. All areas of paint damage in the repair area shall be cleaned and spot painted with the lead silico chromate paint system.

All contact surfaces of joints for the diaphragms and lateral bracing shall be free of paint or lacquer.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Roadway Traffic Control shall be determined by the District.

Railway Traffic Control shall be as noted in the repair plans.

New Structural Girder element shall have top flange supported adequately during transportation to the bridge location.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Furnishing & Erecting Structural Steel	Lbs.	28,630
Raising Existing Loading Platform	L.S.	2.5
Removal of Existing Girder	L.S.	2.5

**GIRDER REPLACEMENT**  
I.C.S. RAILROAD OVER ILLINOIS RT. 3  
F.A. RT. 100 (SBI-150) SEC. (137-15B) I  
ALEXANDER COUNTY

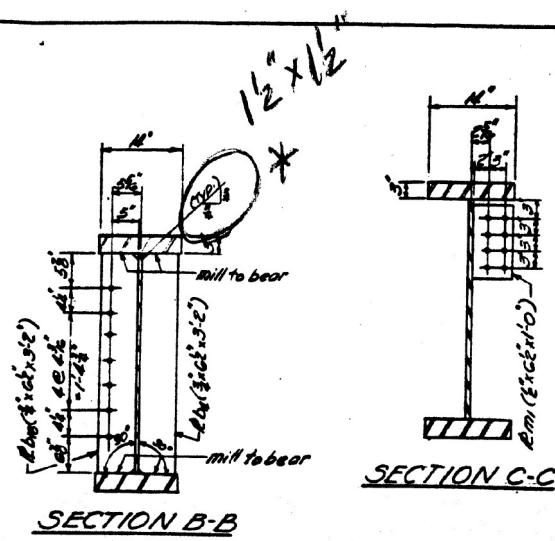
Br. No. 002-0026

MODEL: SMODEL.MAKETS  
FILE: SMODEL.DRAW

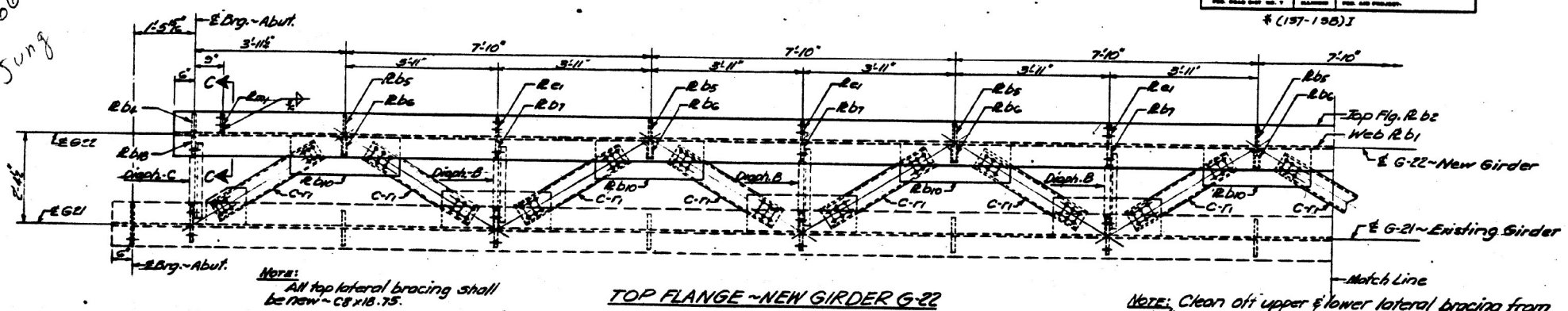
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	TOTAL SHEETS	SHEET NO.
11/14	ALEXANDER	18	6	18 SHEETS

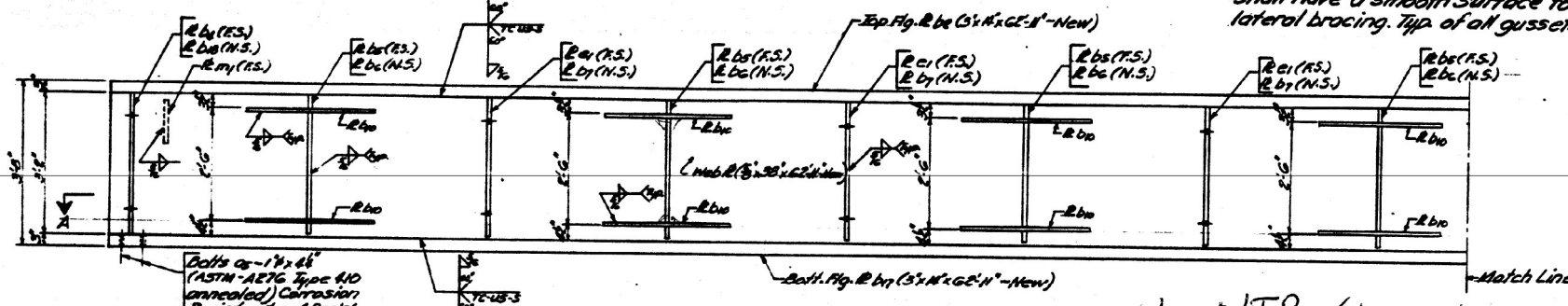
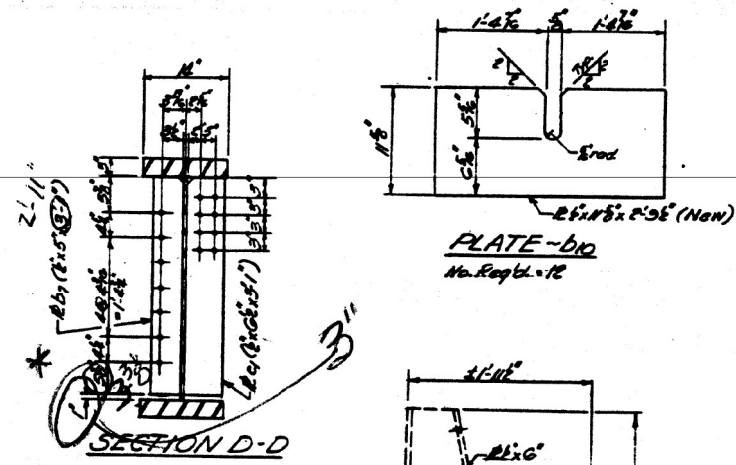
\*(157-150)I



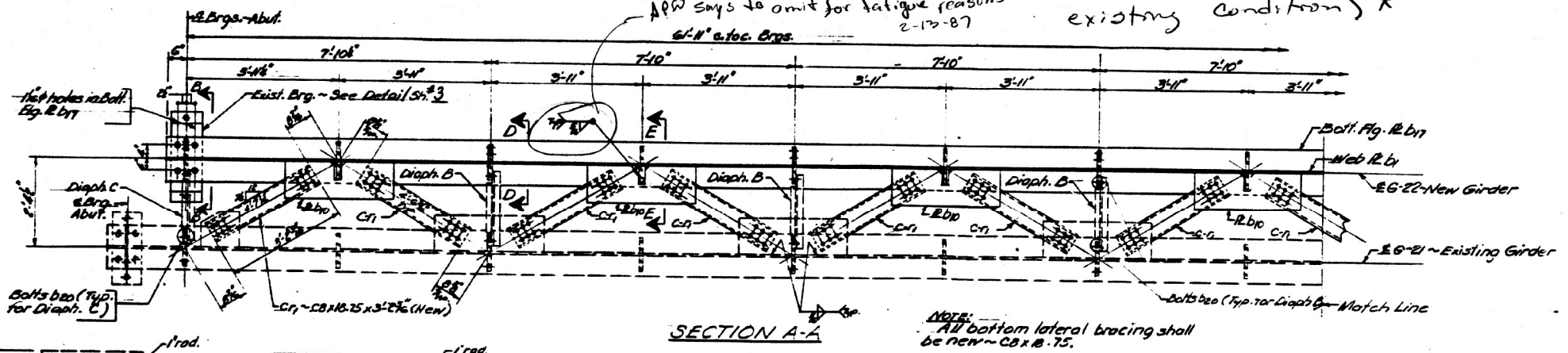
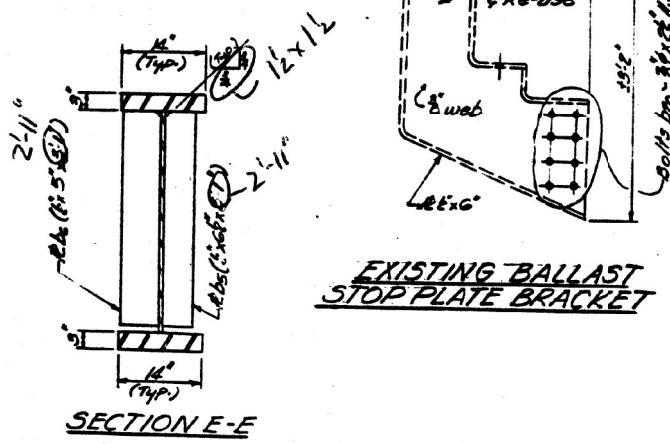
6/8-271-6685  
Ron Jung



NOTE: Clean off upper & lower lateral bracing from existing gussets on girder G-21. Existing gussets shall have a smooth surface to receive the new lateral bracing. Top of all gussets on girder G-21.

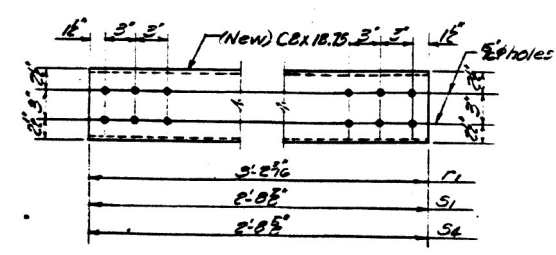
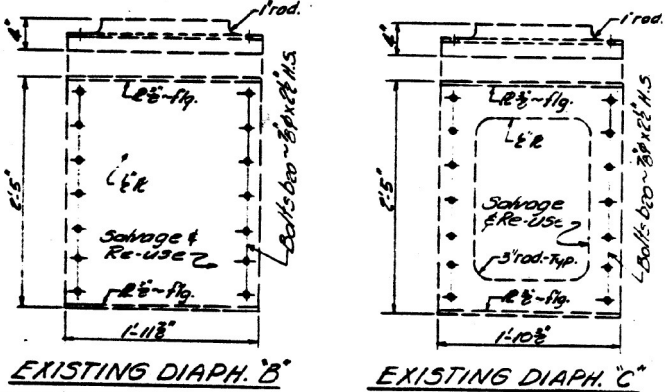


No NTR (to match existing condition) \*



NOTE: All bottom lateral bracing shall be new - C8 x 18.75.

NOTE: All holes in connection plates & stiffeners on new girder G-22 shall be drilled in the field. Use lateral bracing (new), existing diaphragms and ballast stop plate brackets as a template for drilling new holes. All holes shall be 1/8" in these connections.



NOTE: 1/8" holes shall be shop drilled in bracing.

\* Per Rick Brunette & APW after question by Ron Jung of Unifab  
8/21/86

GIRDER REPLACEMENT  
I.C.S. RAILROAD OVER ILLINOIS RT. 2  
EA. RT. 100 (S&T-150) SEC. (137-150)I  
ALEXANDER COUNTY

DESIGNED	Rick Brunetta	Aug 12 1985
CHECKED	James H. Patten	
DRAWN	ENR	
CHECKED	KPS	
EXAMINED	D.J. Rohrer	
PASSED		
APPROVED		

(Change snip sizes & gap dim. when we review shop plans.)

Dr. No. 002-0026

MODEL NUMBER/DATE  
FILE NUMBER/DATE

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8" = 1'	DRAWN -	REVISED -
PLOT DATE = 5/8/85	CHECKED -	REVISED -
	DATE -	REVISED -

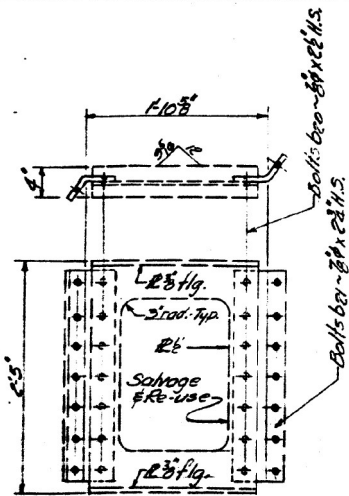
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

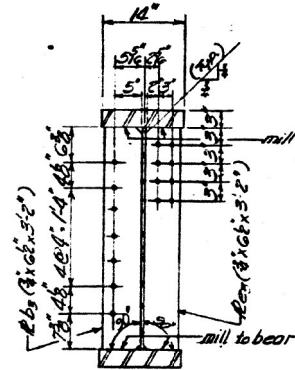
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78882	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

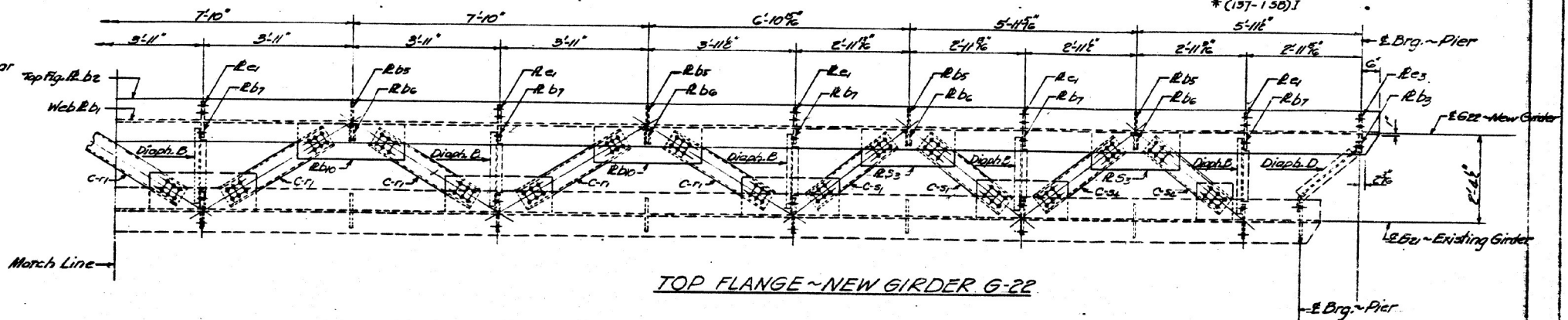
ROUTE NO.	SECTION	SHEET	TOTAL SHEETS	SHEET NO.
F.A. 14	*	ALEXANDER	13	7
* (137-150) I				



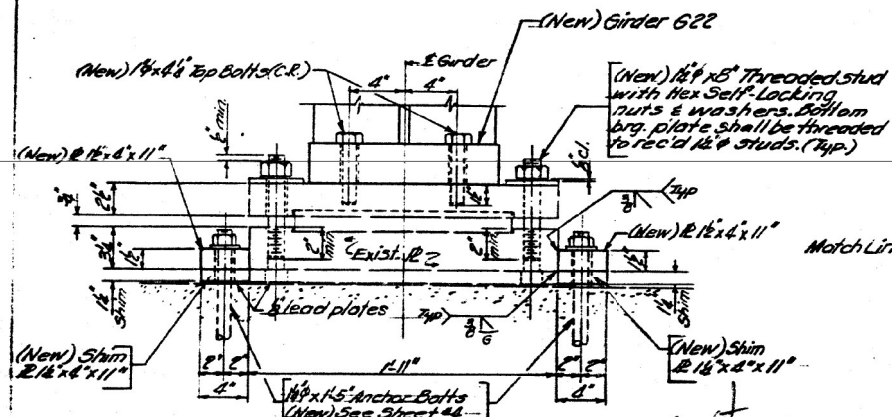
EXISTING DIAPH. D



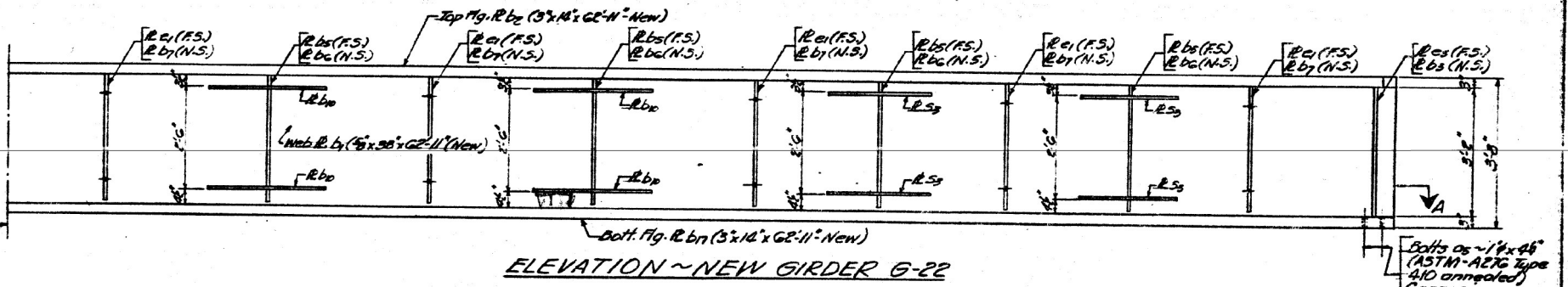
SECTION F-F



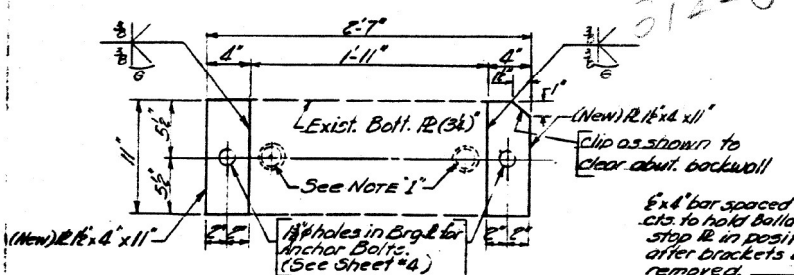
TOP FLANGE ~ NEW GIRDER G-22



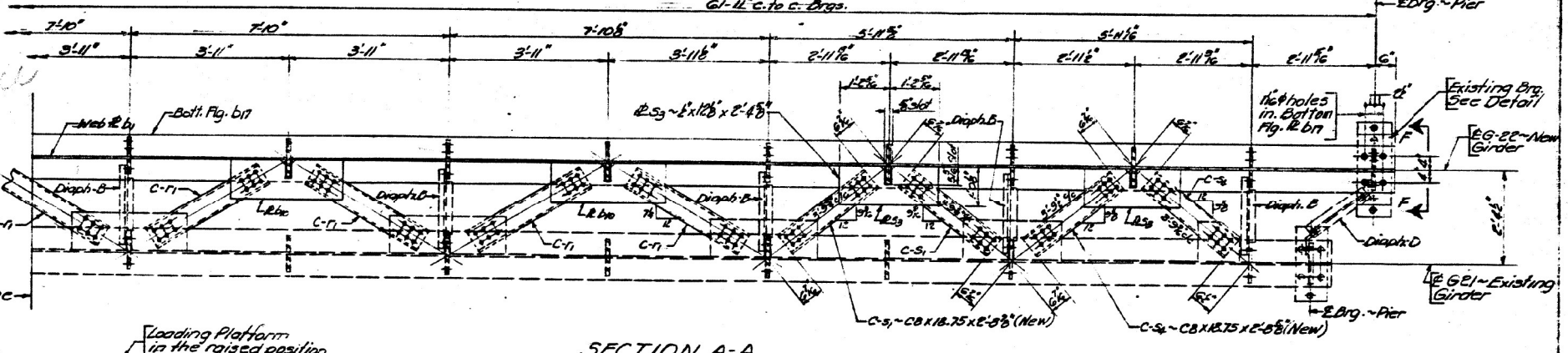
EXISTING BEARING MODIFICATIONS  
(Shown brg. @ S. Abut., brg. @ Pier similar)



ELEVATION ~ NEW GIRDER G-22



PLAN-BOTTOM BRG. PLATE

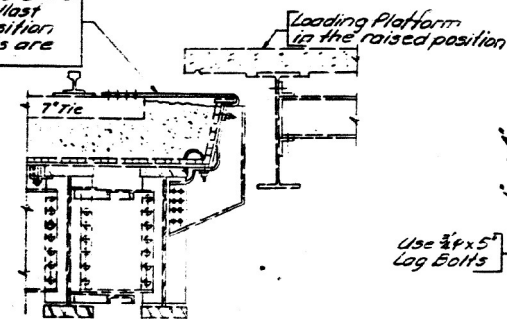


SECTION A-A

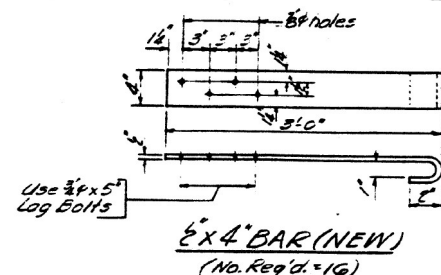
NOTE:   
1. Ream existing holes to 2 1/4" and bevel top & bottom edges 1/4".  
2. Place a steel bushing 2 1/4" O.D., 1" I.D. x 3/4" and weld in position.  
3. Grind ends of new bushing flush with plate. Drill 1/4" & top bushing to receive 1/4" studs shown in detail above.

DESIGNED	Rick Brunette
CHECKED	Kenneth Patton
DRAWN	ENR
CHECKED	KBS

Aug 12 1985  
EXAMINED *[Signature]*  
PASSED  
APPROVED *[Signature]*  
DIRECTOR OF HIGHWAYS



BALLAST STOP PLATE  
TIE BACK DETAIL



6x4 BAR (NEW)  
(No. Req'd. = 16)

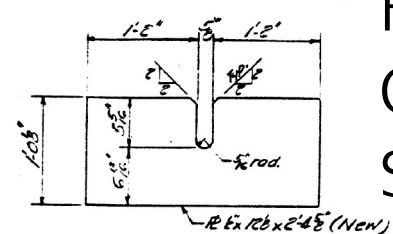


PLATE ~ S5  
No. Req'd. = 4

FOR INFORMATION  
ONLY  
SN 002-0026

GIRDER REPLACEMENT  
I.C.G. RAILROAD OVER ILLINOIS RT. 3  
F.A. RT. 100 (SRI-150) SEC. (137-150) I  
ALEXANDER COUNTY

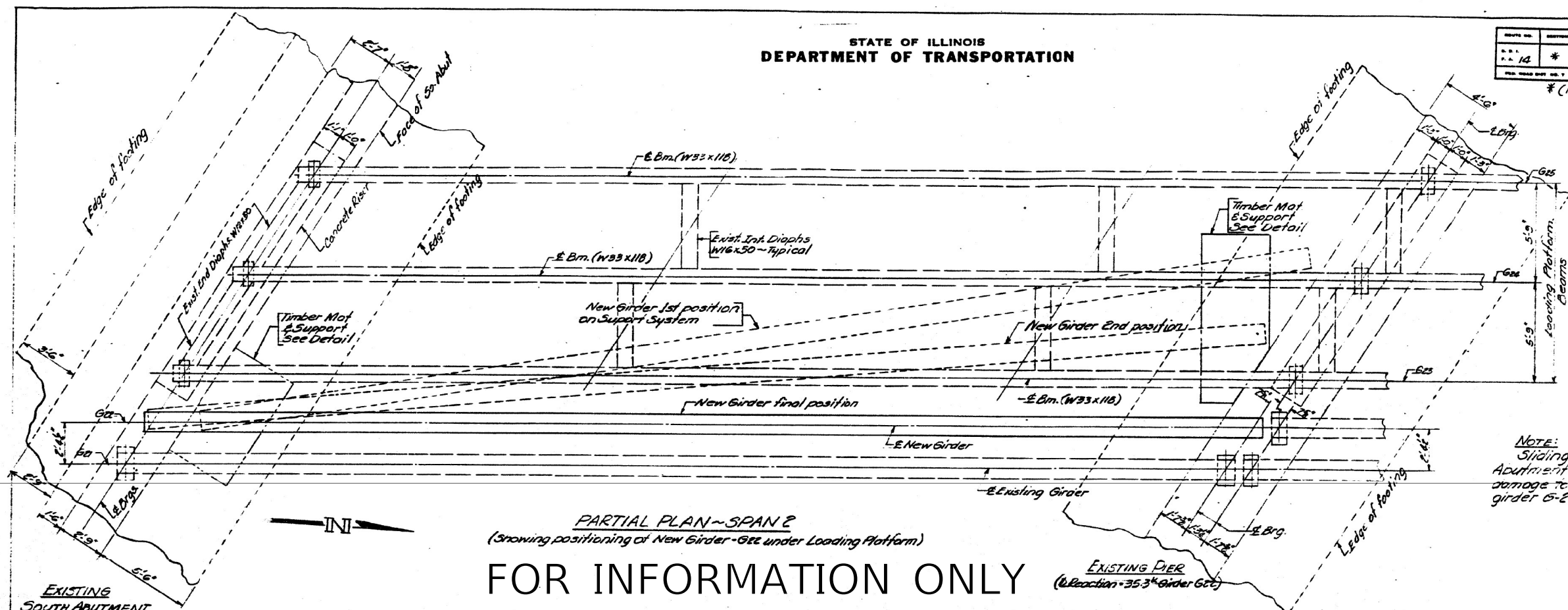
Dr. No. 002-0026

MODEL: SMODEL.MAMITS  
FILE: SMODEL.SHEETS

USER NAME = SUSERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 002-0026	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
PLOT SCALE = SCALES	DRAWN -	REVISED -			VAR D9 BRIDGE PAINT 2023-1 VARIOUS 36 23
PLOT DATE = SDATES	CHECKED -	REVISED -			CONTRACT NO. 78882
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

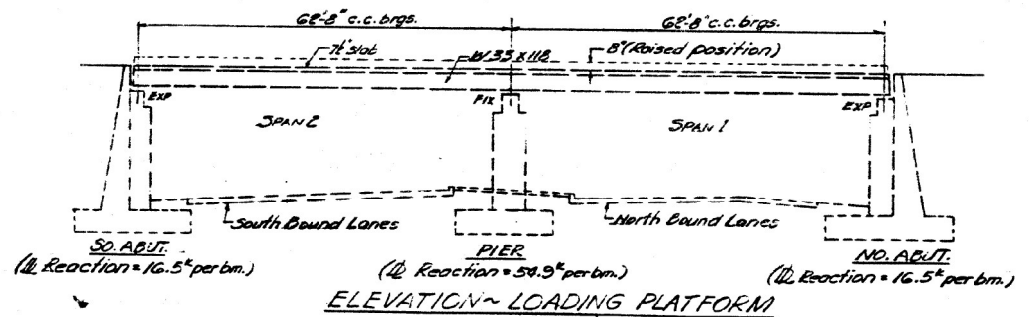
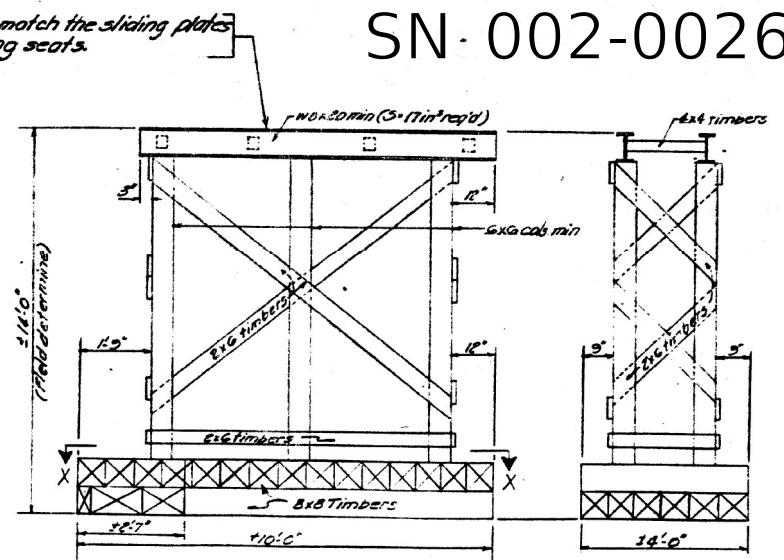
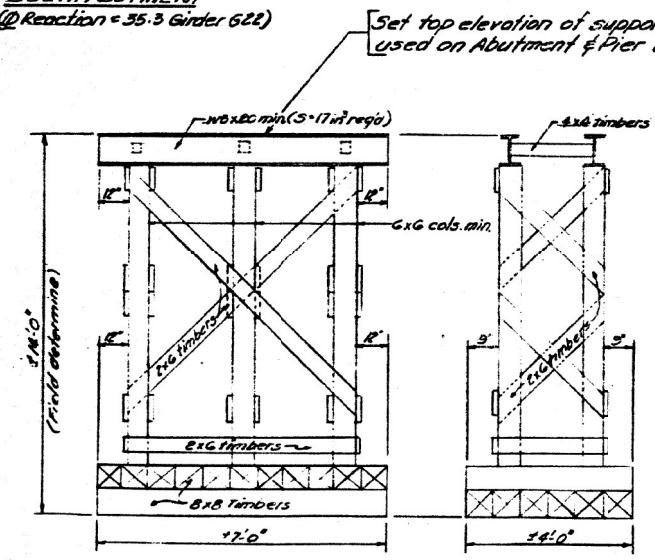
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	ALEXANDER	18	9	14
SHEET NO. 5				
14 SHEETS				
# (137-15B)				



NOTE:  
Sliding plates shall be used on the Abutment and Pier brg. seats to avoid damage to the bottom flange of the new girder G-22 and to the concrete brg. seat.

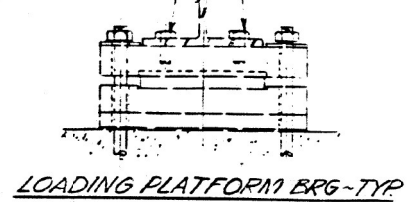
PARTIAL PLAN ~ SPAN 2  
(Showing positioning of New Girder - G22 under Loading Platform)

FOR INFORMATION ONLY  
SN-002-0026



Remove 4-1/4" Top Bolts @ each brg. location on Loading Platform before raising this structure 8" min. Block betw. brg. and bottom flange of beam.

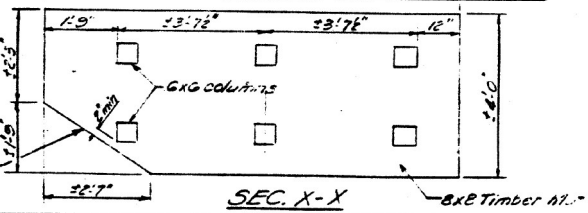
NOTE:  
Cost of the Support System shall be incidental to F & E Structural Steel.



SUGGESTED BEAM POSITIONING & SUPPORT SYSTEM  
I.C.G. RAILROAD OVER ILLINOIS RT. 3  
F.A. RT. 100 (SBI-150) SEC. (137-15B) I  
ALEXANDER COUNTY

DESIGNED	Rick Brunette	Aug 12 1985
CHECKED	Kenneth Patten	
DRAWN	ENR	
CHECKED	KPS	
EXAMINED	O.J. Rohrer	
PASSED		
APPROVED		

Place this edge of Mat against vertical face of Pier.



MODEL NUMBER  
FILE NUMBER

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8" = 1'	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

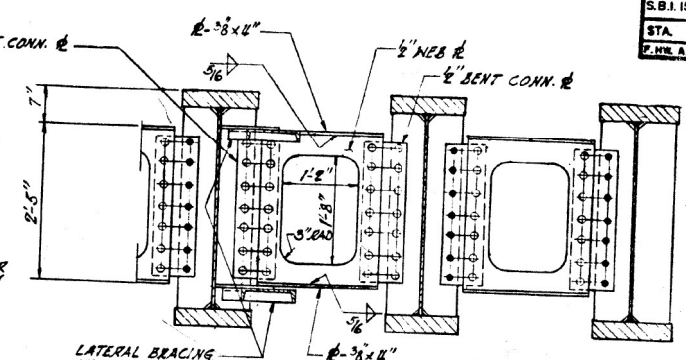
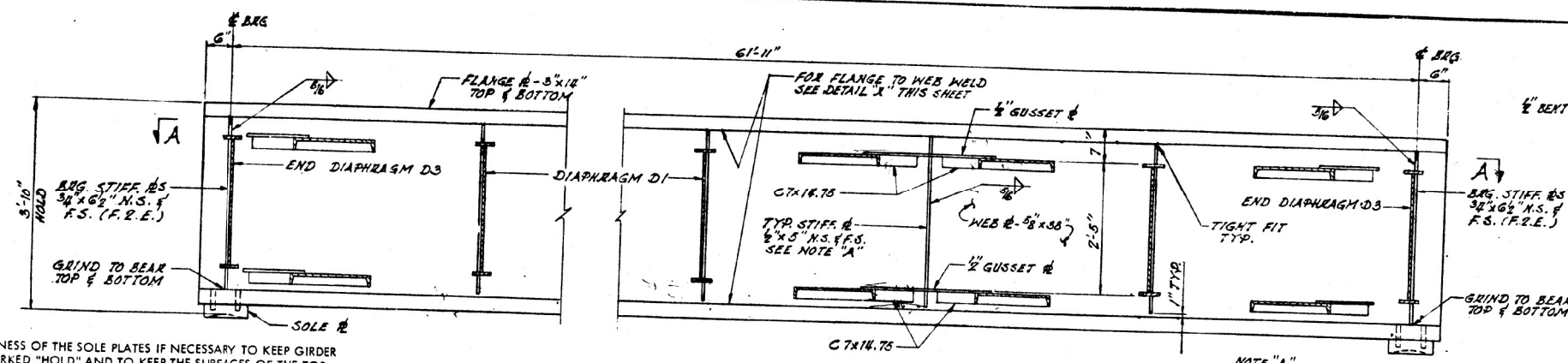
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D9	BRIDGE PAINT 2023-1	VARIOUS	36	24
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 78882	

Br. No 002-0026



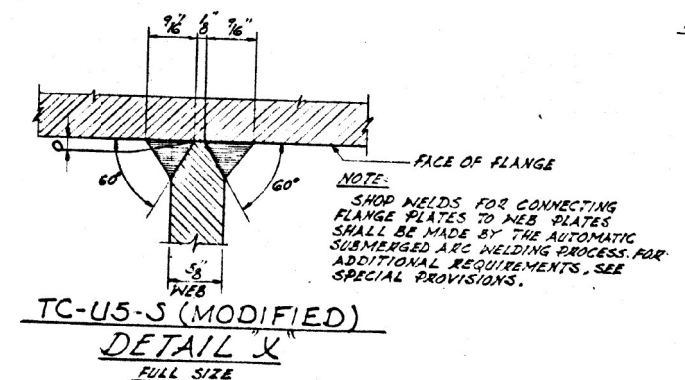
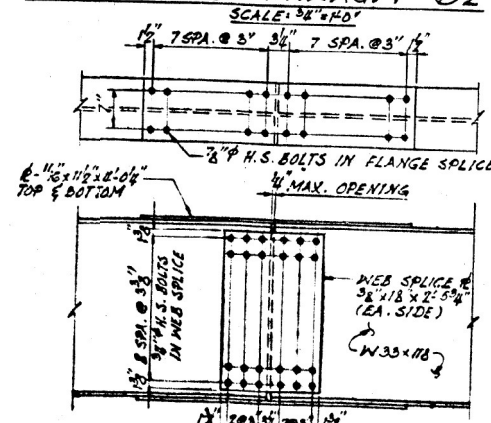
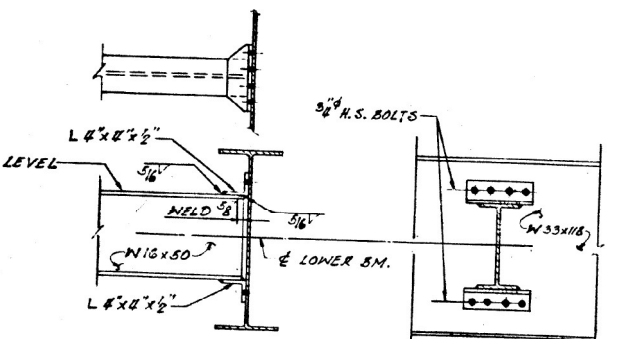
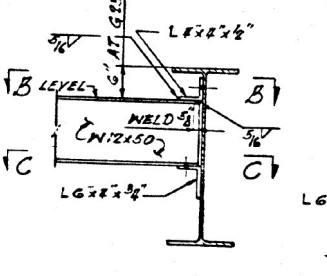
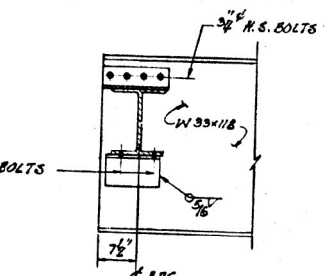
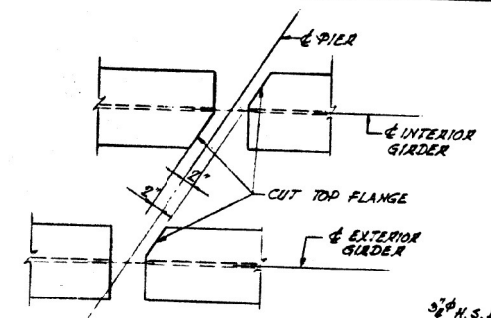
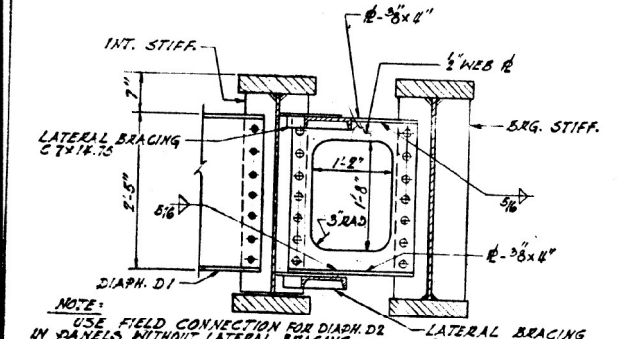
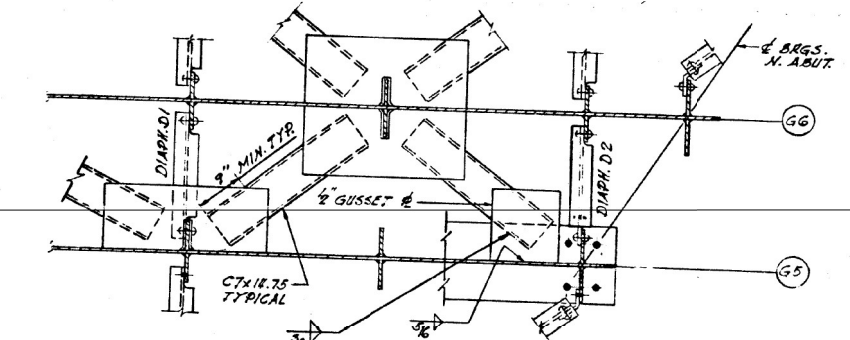
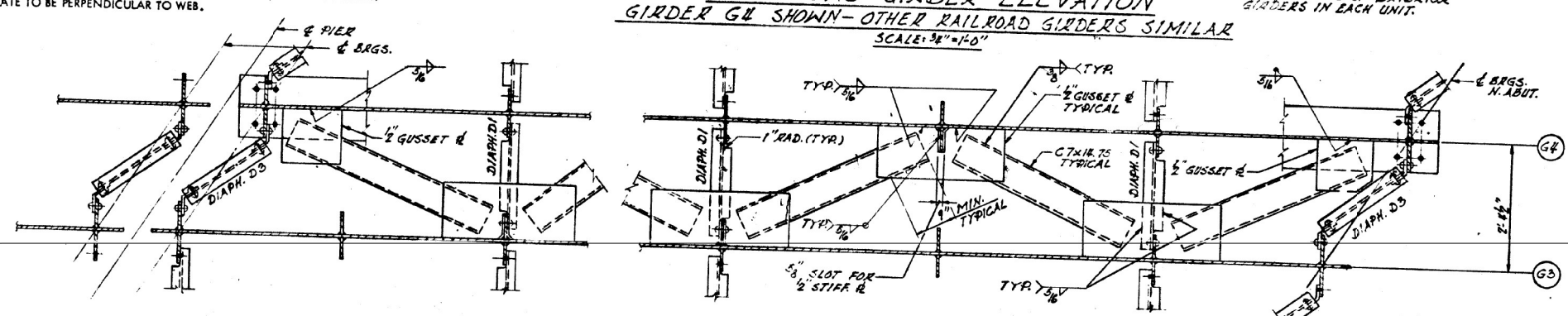


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 150	137-15B	ALEXANDER	83	33
STA.	TO STA.		PROJECT (F.C. 2011)	
P.H.E. A. REG. NO. 4 ILLINOIS				



NOTE:  
VARY THE THICKNESS OF THE SOLE PLATES IF NECESSARY TO KEEP GIRDER DIMENSIONS MARKED "HOLD" AND TO KEEP THE SURFACES OF THE TOP FLANGES IN A TRUE HORIZONTAL PLANE ALONG LINES AT RIGHT ANGLES TO THE CENTERLINES OF GIRDERS. BOTTOM FLANGE OF EACH GIRDER AT SOLE PLATE TO BE PERPENDICULAR TO WEB.

NOTE "A"  
PROVIDE 2"x6" STIFF. & ON OUTSIDE FACE OF EXTERIOR GIRDERS IN EACH UNIT.



NOTE:  
SHOP WELDS FOR CONNECTING FLANGE PLATES TO WEB PLATES SHALL BE MADE BY THE AUTOMATIC SUBMERGED ARC WELDING PROCESS. FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISIONS.

FOR INFORMATION ONLY  
SN 002-0026

8 OF 44

**ILLINOIS CENTRAL RAILROAD**  
OFFICE OF ENGINEER OF BRIDGES

BRIDGE NO. 361-0 OVER S.B.I. ROUTE 150  
NORTH OF CAIRO, ILLINOIS SECTION 137-15B  
ALEXANDER COUNTY  
GIRDER & BEAM DETAILS

ENGINEER OF BRIDGES

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS 108 WABASH AVE. CHICAGO, ILLINOIS	DRAWN BY TRACED BY CHECKED BY	SCALE: AS NOTED	DATE:
		DRAWING NO.	FILE NO.

USER NAME = SUSERS	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 5SCALES	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

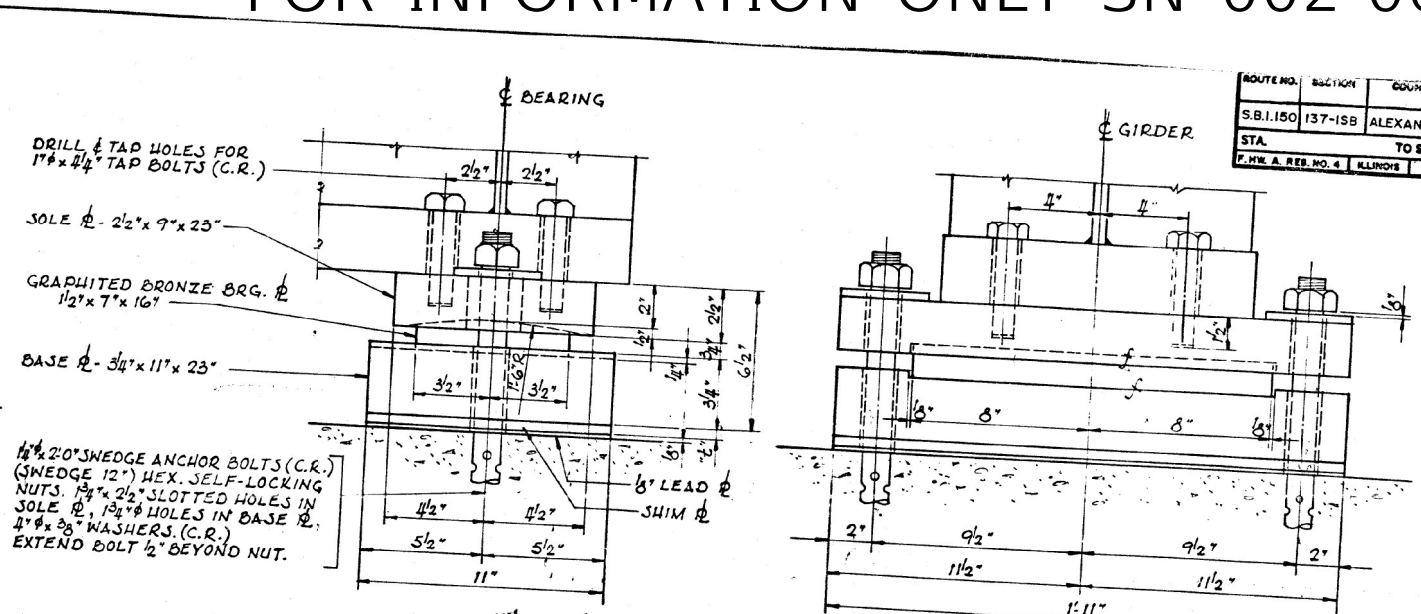
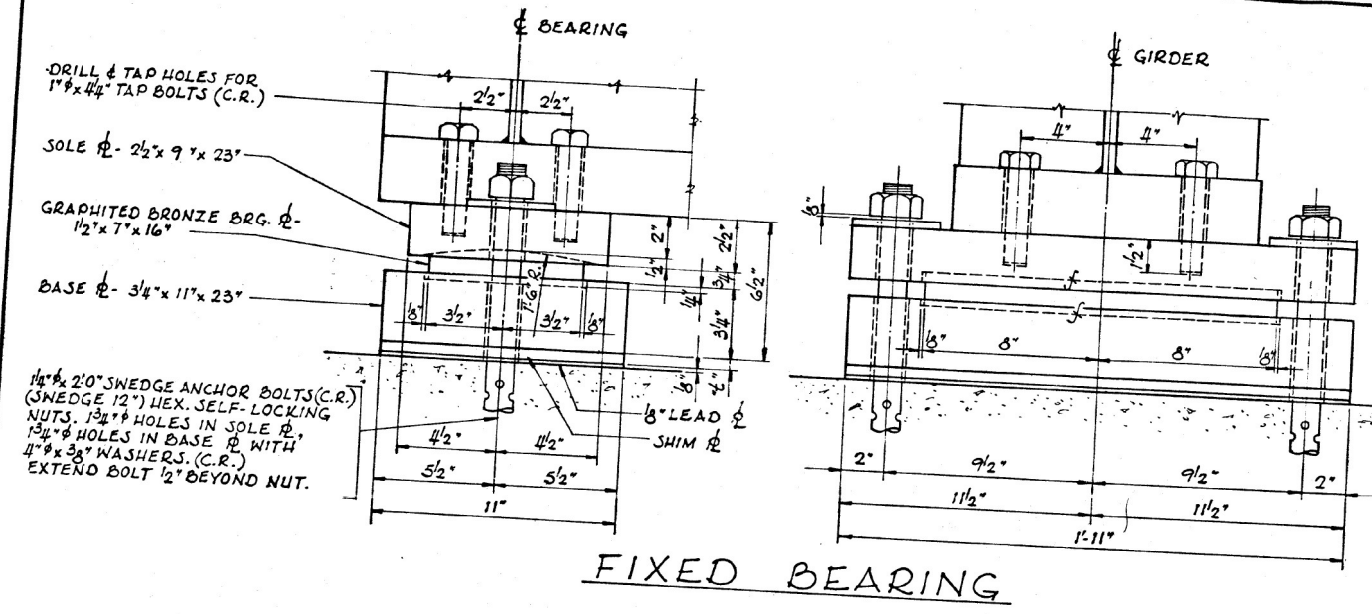
SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____
--------------	-------------	----------	--------	------------	---------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78882	

MODEL, SHAPED MEMBERS FILE NAME: 0026



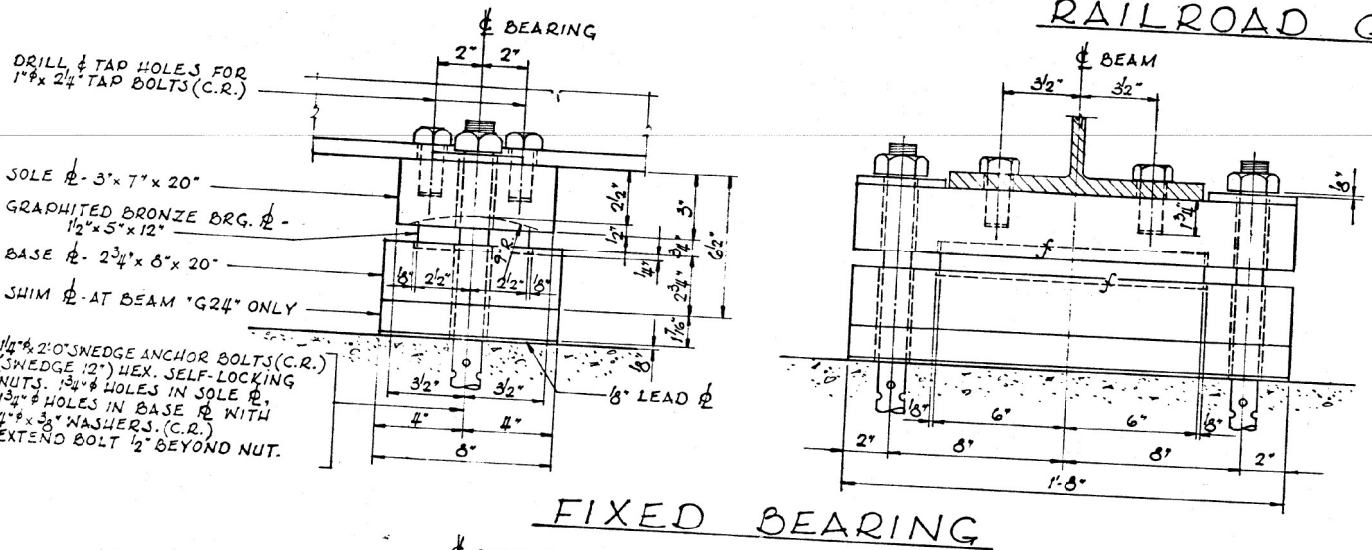
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
S.B.I. 150	137-15B	ALEXANDER	83
STA.	TO STA.		
F.H.W. & REF. NO. 4	ILLINOIS	PROJECT PG-2	



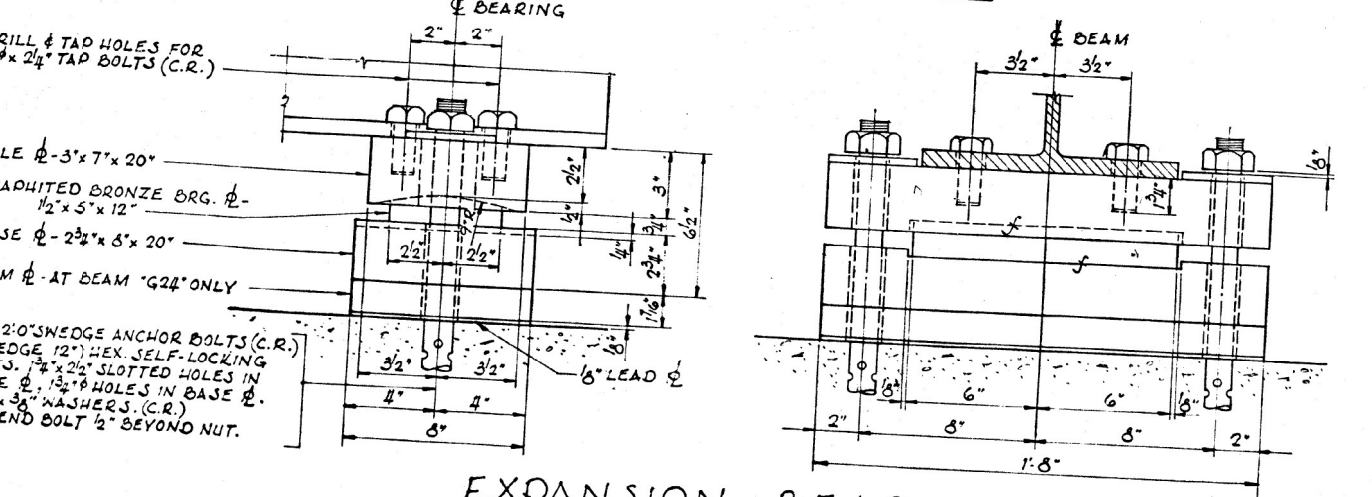
FIXED BEARING

EXPANSION BEARING

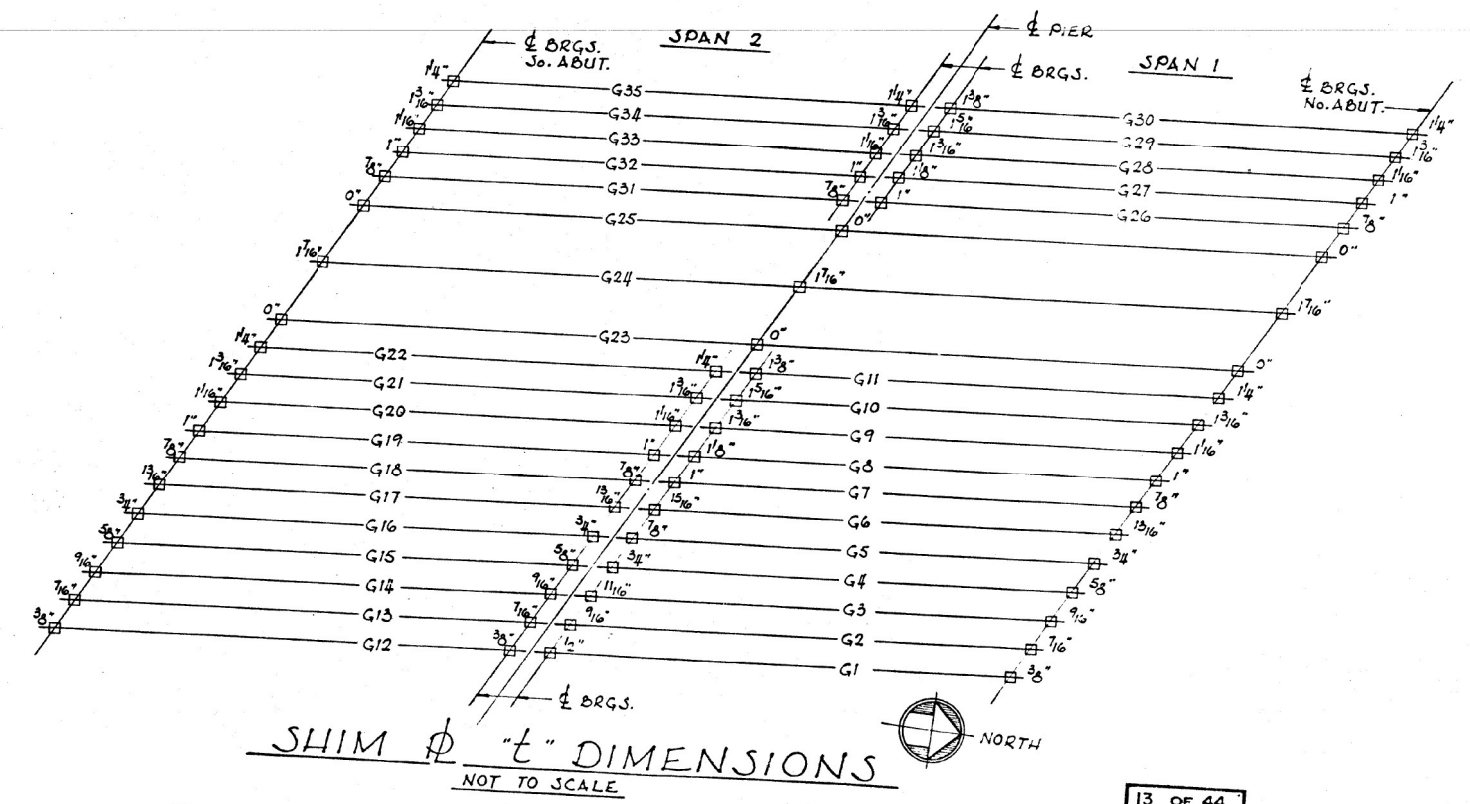
RAILROAD GIRDER BEARINGS  
SCALE: 3" = 1'-0"



FIXED BEARING



EXPANSION BEARING  
LOADING PLATFORM BEARINGS  
SCALE: 3" = 1'-0"



NOTE:  
GRAPHITED BRONZE PLATES AT FIXED AND EXPANSION BEARINGS SHALL BE MADE FROM CAST BRONZE ALLOY CONFORMING TO A.S.T.M. B22, ALLOY B, AND SHALL CONTAIN GRAPHITE FILLED RECESSES. RECESSES SHALL BE ON THE TOP SURFACE OF THE FIXED BEARINGS, AND ON THE TOP AND BOTTOM SURFACES OF THE EXPANSION BEARINGS.  
ALL TAP BOLTS, SWEDGE ANCHOR BOLTS, WASHERS, AND SELF-LOCKING NUTS TO BE CORROSION RESISTANT STEEL (C.R.). SEE SPECIAL PROVISIONS.  
ALL SURFACES MARKED 'f' SHALL BE MACHINE FINISHED.

13 OF 44

**ILLINOIS CENTRAL RAILROAD**  
OFFICE OF ENGINEER OF BRIDGES

BRIDGE NO. 361-0 OVER S.B.I. ROUTE 150  
NORTH OF CAIRO, ILLINOIS

SECTION 137-15B  
ALEXANDER COUNTY  
BEARINGS

ENGINEER OF BRIDGES

ALFRED BENESCH & COMPANY  
CONSULTING ENGINEERS  
105 WABASH AVE. CHICAGO, ILLINOIS

DRAWN BY \_\_\_\_\_  
TRACED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

SCALE: 3" = 1'-0"  
DRAWING NO. \_\_\_\_\_ DATE: \_\_\_\_\_

MODEL: 3400E/14M/15T  
FILE: 3400E/14M/15T

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = 5SCALES	DRAWN - _____	REVISED - _____
PLOT DATE = SDATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

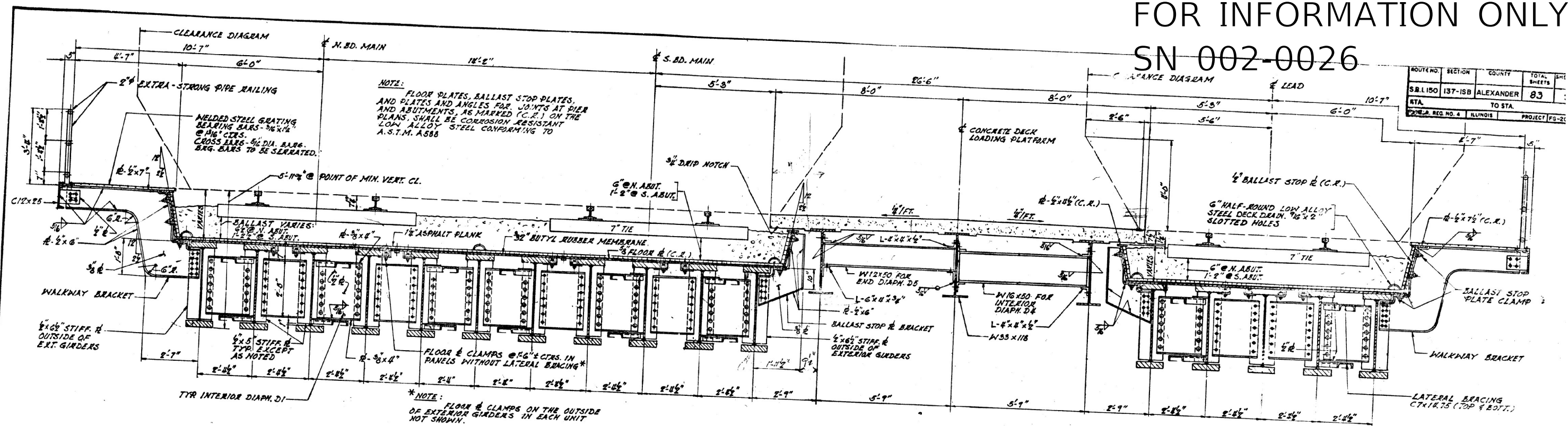
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SN 002-0026

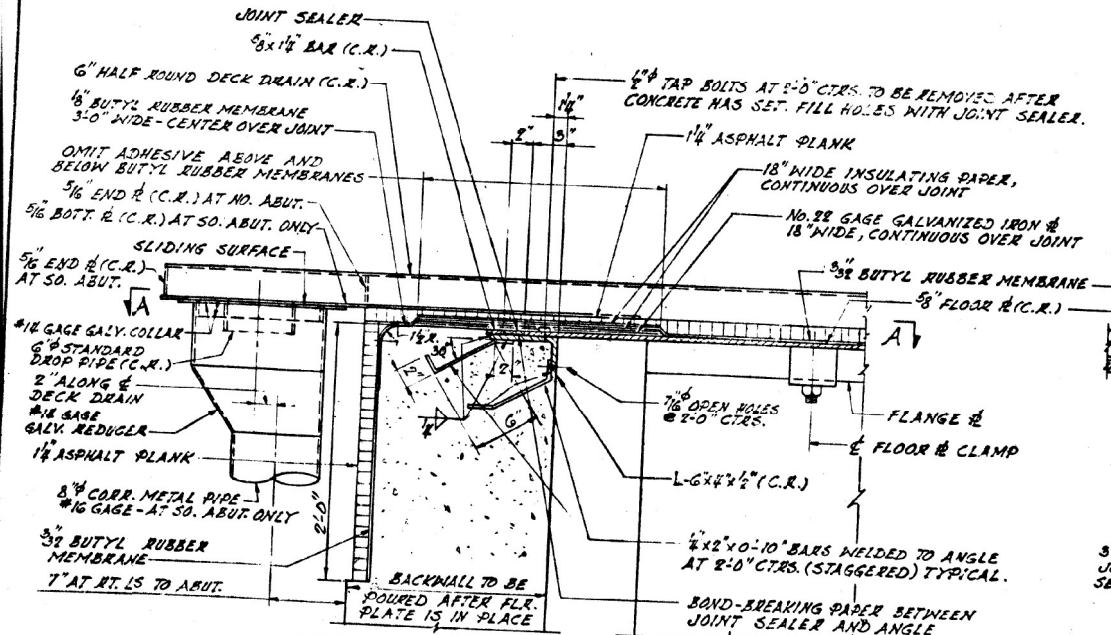
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	28
			CONTRACT NO. 78882	
			ILLINOIS FED. AID PROJECT	

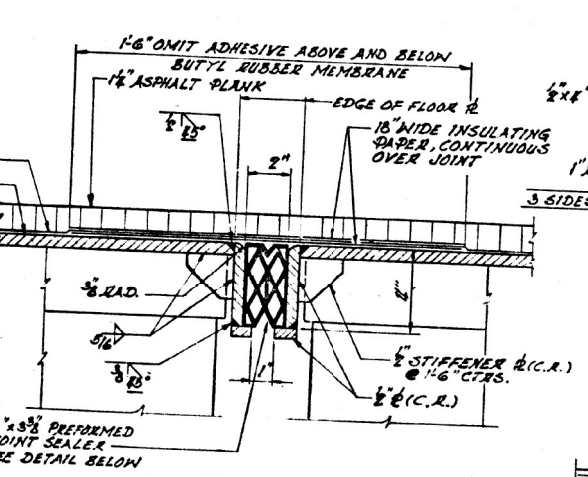
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
S.B.L. 150	137-15B	ALEXANDER	83
STA.	TO STA.		PROJECT PG. 2
ILLINOIS REG. NO. 4	ILLINOIS		



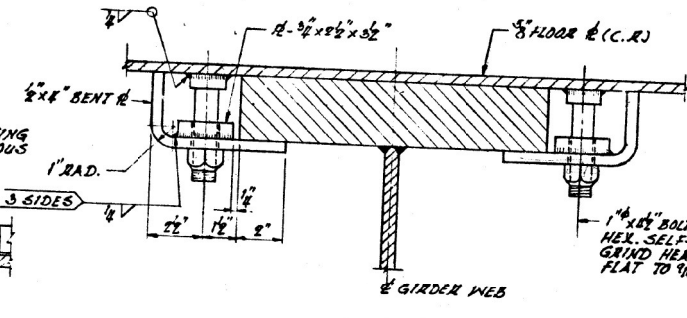
**TYPICAL DECK CROSS SECTION**  
SCALE: 1/2" = 1'-0"  
(Looking South)



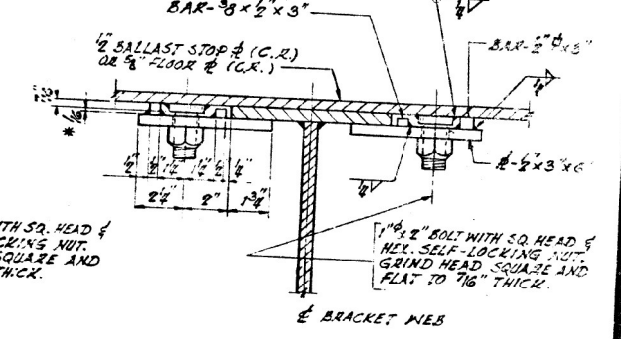
**JOINTS AT ABUTMENTS**  
SCALE: 1/2" = 1'-0"



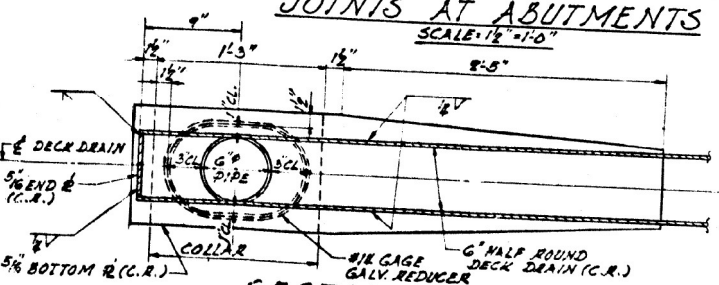
**JOINT AT PIER**  
SCALE: 3/4" = 1'-0"



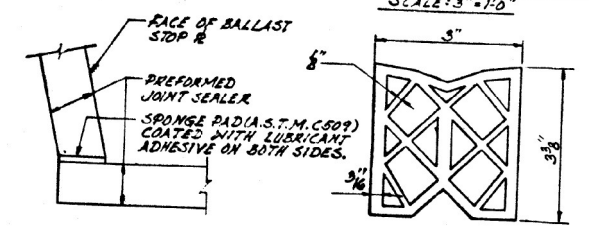
**FLOOR & CLAMP**  
SCALE: 3/4" = 1'-0"



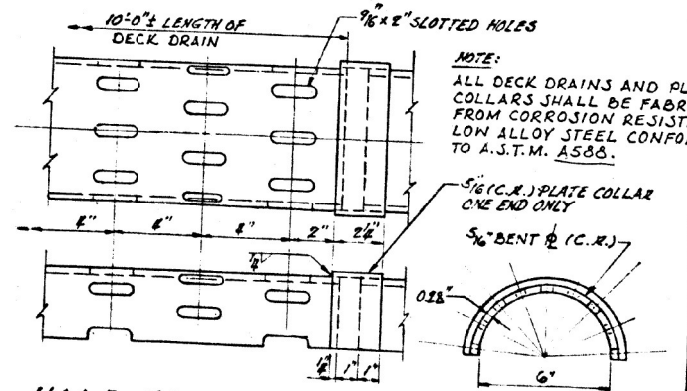
**BALLAST STOP & CLAMP**  
SCALE: 5/8" = 1'-0"



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



**SPlice IN PREFORMED JOINT SEALER (3)**



**HALF ROUND DECK DRAIN**  
SCALE: 3/4" = 1'-0"  
**NOTE:** DECK DRAIN SHALL BE FURNISHED IN 10'-0" LENGTHS.

9 OF 44

**ILLINOIS CENTRAL RAILROAD**  
OFFICE OF ENGINEER OF BRIDGES

BRIDGE NO. 361-0 OVER S.B.I. ROUTE 150  
NORTH OF CAIRO, ILLINOIS

SECTION 137-15B  
**DECK CROSS SECTION & DETAILS**

ENGINEER OF BRIDGES

ALFRED BENESCH & COMPANY CONSULTING ENGINEERS 108 WABASH AVE. CHICAGO, ILLINOIS	DRAWN BY R.C. TRACED BY CHECKED BY	SCALE: AS NOTED	DATE:
---	--	-----------------	-------

MODEL: SHORLETT  
FILE NAME: 0026

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = SSCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SN 002-0026

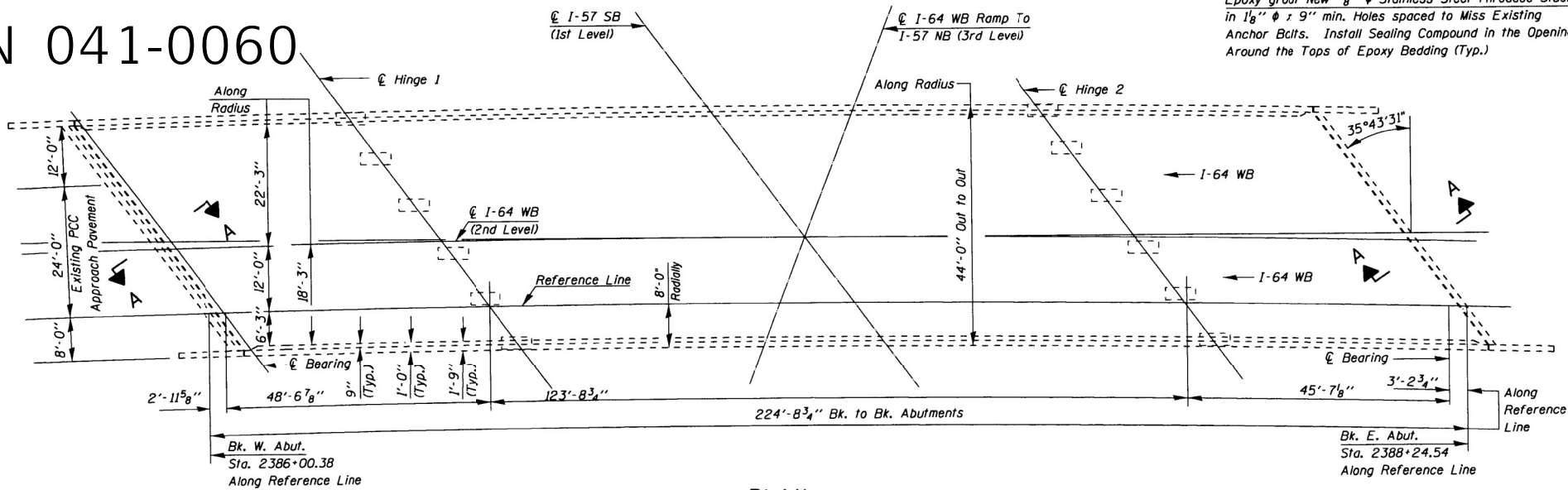
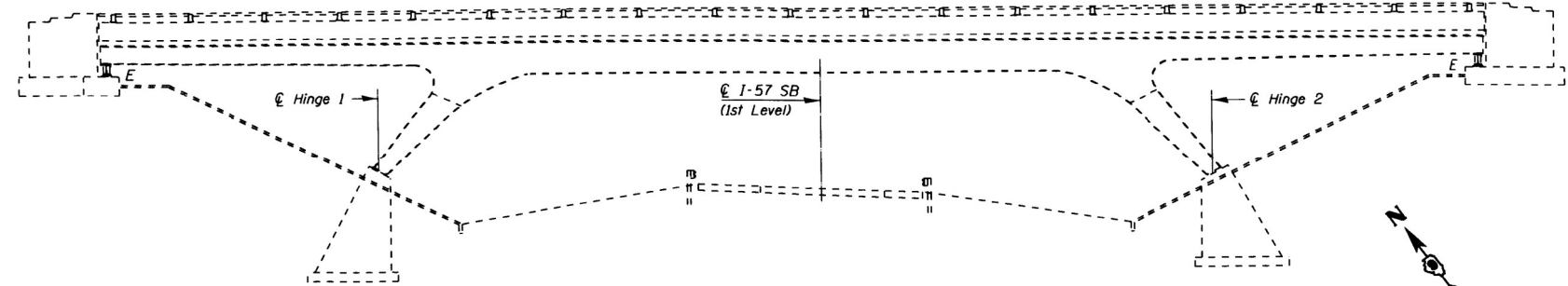
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	29
			CONTRACT NO. 78882	
ILLINOIS FED. AID PROJECT				

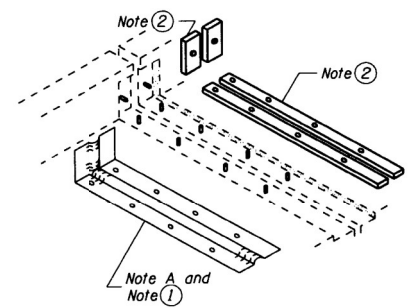
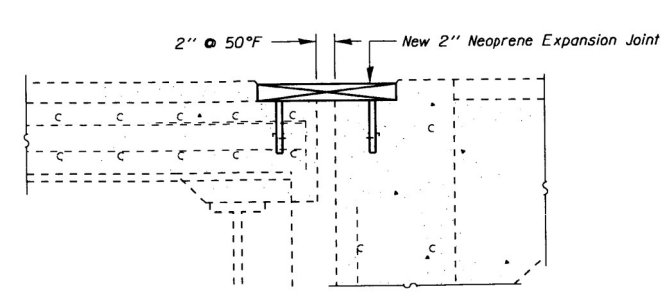
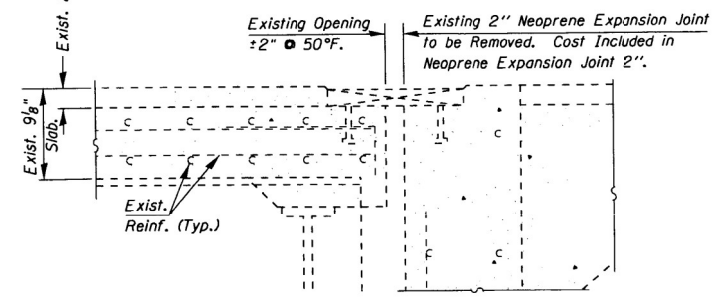




FOR INFORMATION ONLY  
SN 041-0060



Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1 1/2" Min.



**GENERAL NOTES**

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

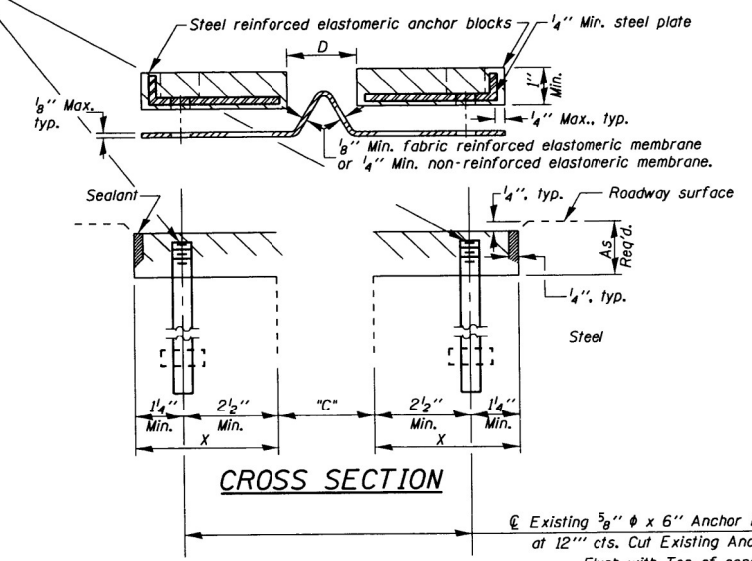
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

Joint openings shall be adjusted according to Article 503.10 of the Standard Specifications when the joint is installed at an ambient temperature other than 50° F.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

Epoxy grout New 7/8" φ Stainless Steel Threaded Studs in 1 1/8" φ x 9" min. Holes spaced to Miss Existing Anchor Bolts. Install Sealing Compound in the Opening Around the Tops of Epoxy Bedding (Typ.)



**INSTALLATION NOTES**

- Install continuous seal in roadway, parapet, curb, and sidewalk.
  - Install anchor blocks as indicated.
- NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

**AT WALL**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Neoprene Expansion Joint 2"	Foot	107
* Bridge Deck Concrete Crack Sealer	Foot	450

\* To be used to seal cracks in the existing concrete overlay. Quantities are estimates. Actual quantity and location to be determined by the Engineer in the field. See Special Provision.

**NEOPRENE JOINT DETAILS**  
**FAI 64 WB OVER FAI 57 SB**  
**JEFFERSON COUNTY**  
**SN 041-0060**

FILE NAME =	USER NAME = rollevr	DESIGNED -	REVISED -
as\pw\work\p\wdot\rolllevr\d0278568\7827	shthdgn	DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
	PLOT DATE = 3/6/2014	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**NEOPRENE JOINT DETAILS**  
**SN 041-0060**

SCALE: SHEET TA OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3-1)RS-1+41-8)RS-2	JEFFERSON	235	152A
CONTRACT NO. 78276				
ILLINOIS FED. AID PROJECT				

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5SCALES	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SN 041-0060**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	32
CONTRACT NO. 78882				
ILLINOIS FED. AID PROJECT				

MODEL NUMBER MATES FILE NAME: 81125



21. Force & Masses in foot of 30' OSK 200 Rt Sta 2387A+00 Elev 50941

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS  
Along & Survey

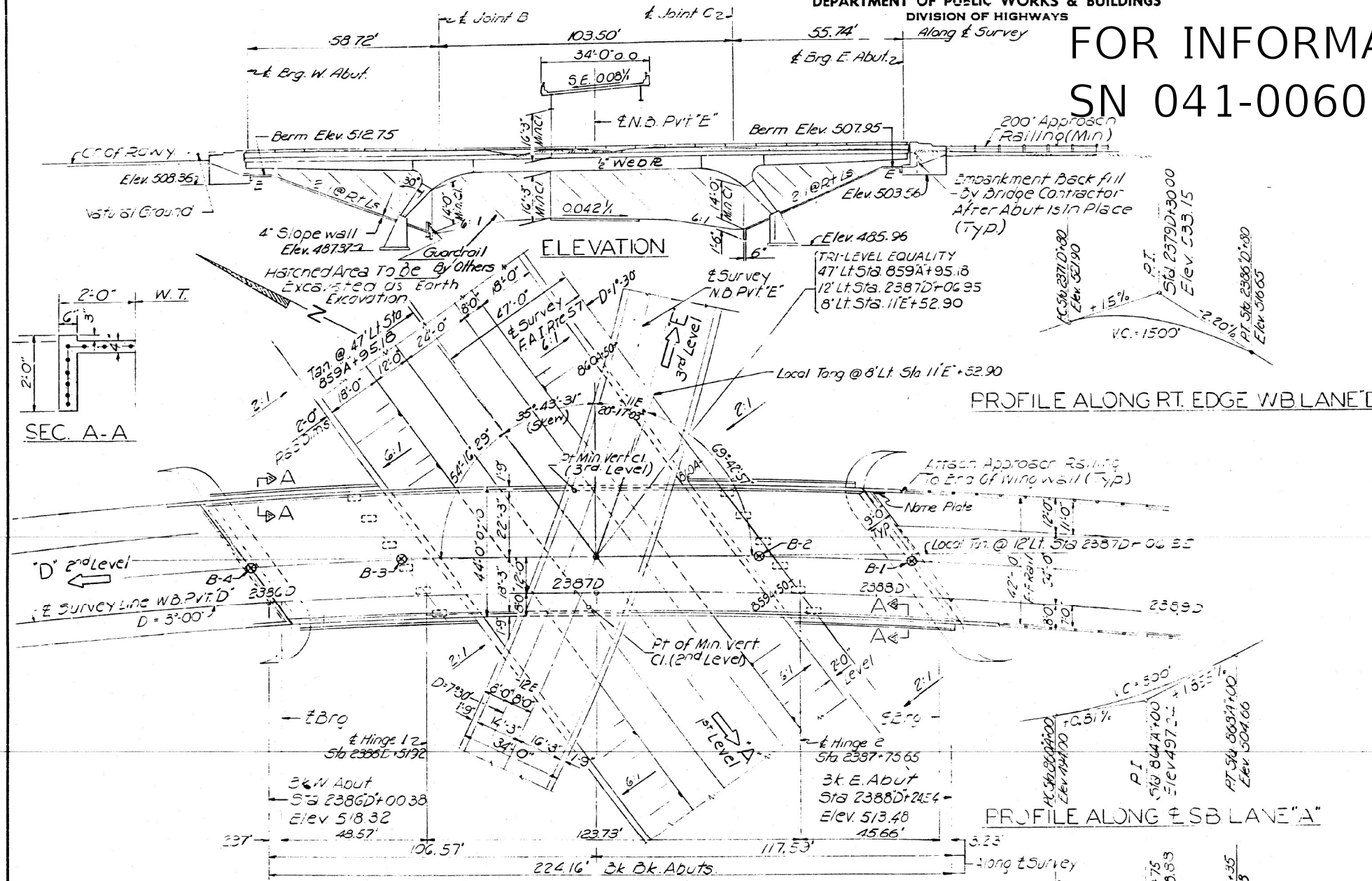
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	41-34E	JEFFERSON	50	3

13 SHEETS

FOR INFORMATION ONLY  
SN 041-0060

GENERAL NOTES

- Coarse aggregate to be used in parapet handrails and end post must be free of chert, flint, limonite, lignite and soft sandstone.
- The concrete floor slab shall be finished in accordance with Art. 3.19 of the Standard Specifications.
- Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 53 # per 100 Sq Ft.
- All structural steel shall conform to ASTM Designation A-36.
- All welding shall conform to the current specifications for welded Highway and Railway Bridges of the American Welding Society.
- Anchor bolts shall be set before bolting diaphragms over supports.
- Exposed surfaces of the expansion devices inaccessible after erection shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.
- Expansion devices are included in the quantity of structural steel. Est. Wt. = 2780 Lbs.
- Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Art. 56.1 to 56.5 inclusive of the Standard Specifications.
- All reinforcement shall be lapped 20 diameters unless otherwise shown.
- Permanent forms will not be permitted in forming the concrete floor.
- Rivet 3/8", open holes 1/2", unless otherwise noted.



TOTAL BILL OF MATERIAL

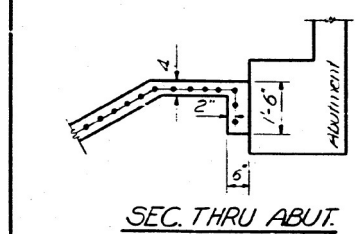
ITEM	UNIT	SUPER	SUB.	TOTAL
Class A Excavation for Structures	Cu. Yds.			630
Rock Excavation for Structures	Cu. Yds.			430
Class X Concrete	Cu. Yds.	2577	3294	617.1
Structural Steel	Lbs.	312,570		312,570
Aluminum Handrail	Lin. Ft.	439		439
Reinforcement Bars	Lbs.	82,590	23,770	104,360
Name Plates	Each		1	1
Protective Coat	Sq. Yds.	1215		1215
Bridge Seal Sealant	L.S.			
Slope Wall (4')	Sq. Yds.			120

- Includes excavation for slope walls.
- Includes applications on inside vertical face, top & exposed end of the Abutment wings.
- All Abutment only.
- FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1' OF THE SPAN EACH WAY FROM FIELD SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

STA. 2387D+06.95  
BUILT 196 BY  
STATE OF ILLINOIS  
F.A.I. RT. 57 SEC. 41-34B  
F.A. PROJ. 116-57-3(45)  
LOADING HS 20 & ALT.

NAME PLATE  
(See Std. 213-1)

GENERAL PLAN & ELEVATION  
2ND LEVEL STRUCTURE  
PROJ. 116-57-3(45)95  
F.A.I. RT. 57 SEC. 41-34B  
JEFFERSON COUNTY  
STA 2387 D+06.95



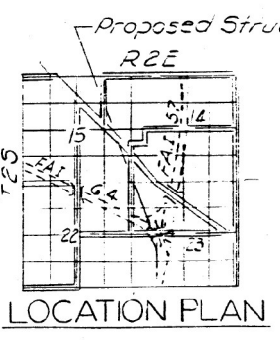
DESIGNED <i>W.H. Perry</i>	EXAMINED <i>W.H. Perry</i>
CHECKED <i>W.H. Perry</i>	PASSED <i>W.H. Perry</i>
DRAWN <i>SG Furchow</i>	APPROVED <i>W.H. Perry</i>
CHECKED <i>W.H. Perry</i>	

CURVE DATA

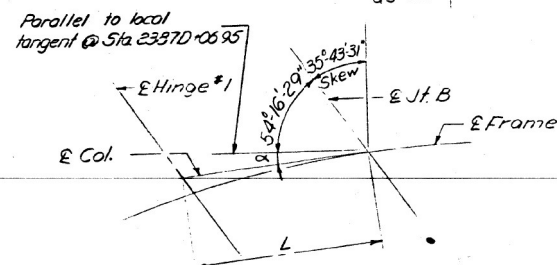
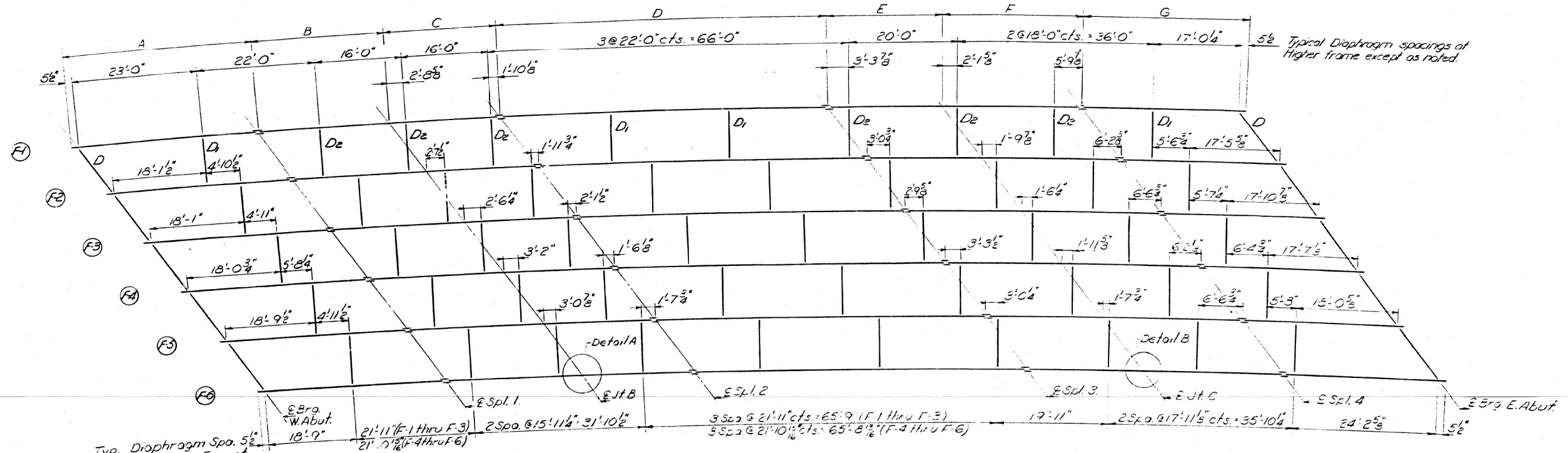
WEST BOUND PAVT'D	SOUTH BOUND PAVT'A	NORTH BOUND PAVT'E
P.I. Sta. 2392D+44.25	P.I. Sta. 853A+94.94	P.I. Sta. 17E+34.10
Δ = 66°-20'-10"	Δ = 24°-10'-16"	Δ = 118°-30'-00"
D = 3°-00'-00"	D = 1°-30'-00"	D = 7°-30'-00"
NR = 1909.86'	R = 3819.72'	R = 763.94'
L = 2211.21'	L = 1611.41'	L = 1580.00'
T = 1248.26'	T = 817.67'	T = 1284.07'
E = 371.74'	E = 86.58'	E = 730.19'
SE = 0.08 Ft/Ft	SE = 0.042 Ft/Ft	SE = 0.08 Ft/Ft
Attained in 240'	Attained in 200'	Attained 192'

PROFILE ALONG RT. EDGE RAMP 'E'

DESIGN STRESSES  
fc = 1,400 p.s.i. Super & Sub.  
vc = 75 p.s.i. Footings  
fs = 20,000 p.s.i. Structure (A-36)  
fs = 20,000 p.s.i. Reinforcement.  
n = 10  
Max. footing pressure = 2300 p.s.f. (Abuts)  
4900 p.s.f. (Hinges)  
LOADING HS 20-44 & ALT.

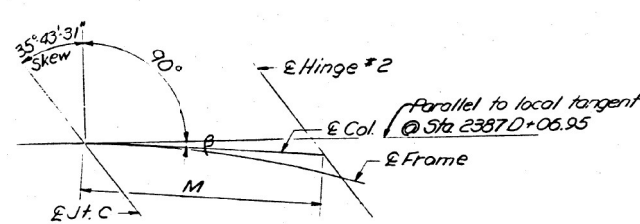


Revised W.H. 6-1-67 Reinforcement Bars change from 104,420 lbs to 104,360 lbs



DETAIL A

Fabricate the E Col. tangent to the E Frame at E joints



DETAIL B

PLAN  
Frame Spacing 7'-8" cts. radially  
Frame to be fabricated according to its  
respective radius

FOR INFORMATION ONLY  
SN 041-0060

TABLE OF DIMENSIONS

	R (in ft.)	A	B	C	D	E	F	G	Total	H	I	J	K	L	M	N	O	P
Frame 1	1943.0267	33'-11 1/2"	24'-9 3/8"	20'-6 3/8"	60'-10"	21'-2 1/4"	25'-11 1/2"	29'-7 3/8"	216'-11 1/4"	10'-0 3/8"	20'-4 7/8"	9'-10 3/8"	19'-7 3/8"	1'-0'-44"	9'-11 1/2"	2'-0'-25"	10'-1"	
Frame 2	1835.3600	34'-0 3/8"	24'-9 3/8"	20'-7 1/4"	60'-11 1/2"	21'-2 3/8"	26'-0 1/4"	29'-8 3/8"	217'-4 3/8"	10'-0 3/8"	20'-5"	9'-11"	19'-7 3/8"	1'-0'-55"	9'-11 3/8"	1'-51'-41"	10'-1 1/2"	
Frame 3	1827.6933	34'-0 3/8"	24'-10 3/8"	20'-7 3/8"	61'-0 3/8"	21'-3 3/8"	26'-1"	29'-9 3/8"	217'-9 3/8"	10'-0 3/8"	20'-5 1/2"	9'-11 1/4"	19'-7 3/8"	1'-21'-12"	10'-0"	1'-42'-30"	10'-1 1/2"	
Frame 4	1820.0267	34'-1 1/2"	24'-11"	20'-8 3/8"	61'-0 3/8"	21'-3 3/8"	26'-1 1/4"	29'-10 3/8"	218'-3 3/8"	10'-0 3/8"	20'-5 1/2"	9'-11 1/2"	19'-7 3/8"	1'-31'-35"	10'-0 1/4"	1'-33'-12"	10'-1 3/8"	
Frame 5	1912.3600	34'-5 3/8"	24'-11 1/2"	20'-8 3/8"	61'-4"	21'-4 1/2"	26'-2 1/2"	29'-11 3/8"	218'-8 3/8"	10'-1 1/8"	20'-5 3/8"	9'-11 3/8"	19'-7 3/8"	1'-42'-04"	10'-0 3/8"	1'-23'-52"	10'-1 3/8"	
Frame 6	1904.6933	34'-2 3/8"	25'-0"	20'-9 3/8"	61'-5 1/2"	21'-5 1/2"	26'-3 1/4"	30'-0 1/4"	218'-2 3/8"	10'-1 3/8"	20'-5 1/2"	10'-0 3/8"	19'-7 3/8"	1'-52'-40"	10'-0 3/8"	1'-44'-24"	10'-2 3/8"	

LENGTH OF DIAPHRAGM D

	Between F-1 & F-2	Between F-2 & F-3	Between F-3 & F-4	Between F-4 & F-5	Between F-5 & F-6
W. Abut.	8'-11 1/2"	8'-11 1/2"	8'-11 3/8"	8'-11 3/8"	9'-0"
E. Abut.	9'-8 1/4"	9'-8 1/2"	9'-8 3/8"	9'-9 3/8"	9'-9 1/2"

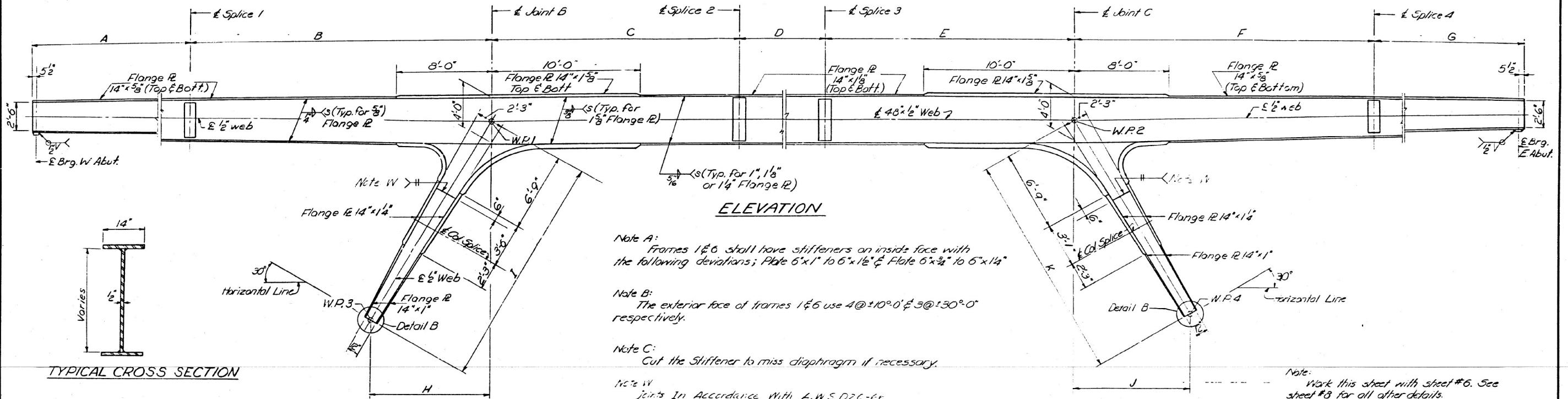
Note:  
See Sheets #7 & #8 for Structural Steel Detail.  
For details of Welding Designations see AWS D20-66 specifications.  
Weight of Structural Steel billed on Sheet #4  
Contact Surface of all field splices shall be free of all oil and paint.

DESIGNED *W. Lewis*  
CHECKED *D. McConick*  
DRAWN Thomas A. Lewis  
CHECKED *D. McConick*

EXAMINED *Carl E. Johnson*  
PASSED *T. J. Altom*  
APPROVED *J. E. Hoff*

Sept 7 1966

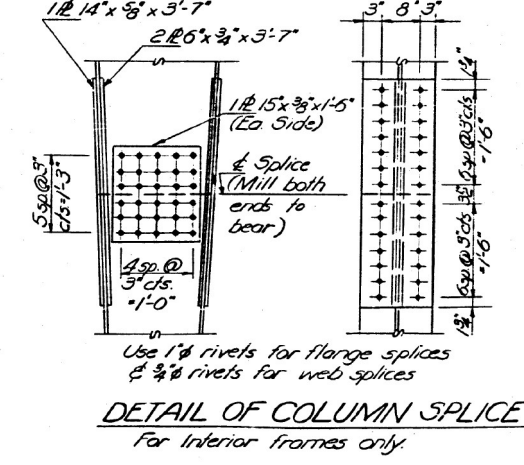
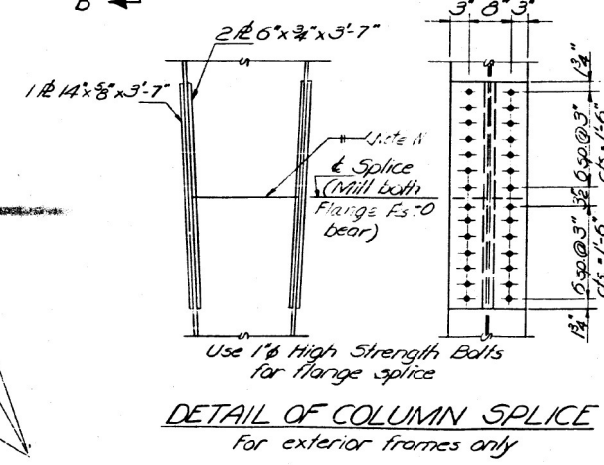
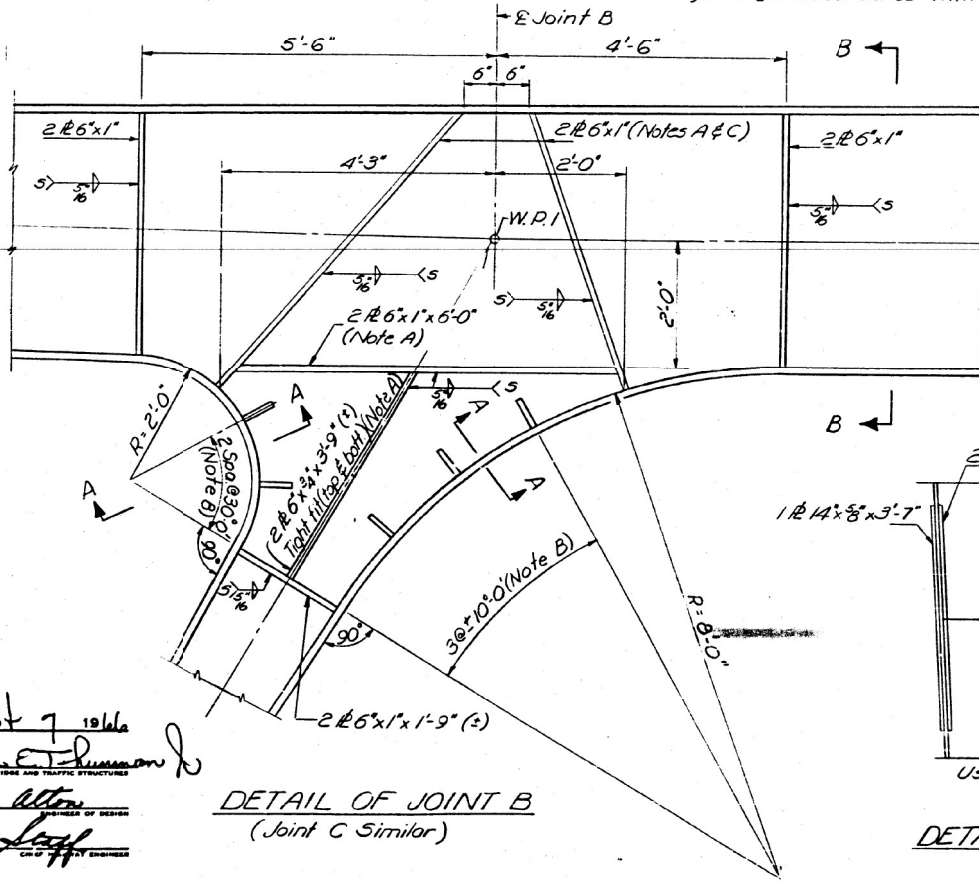
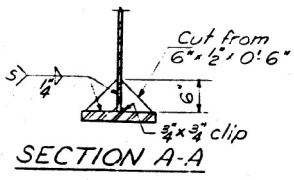
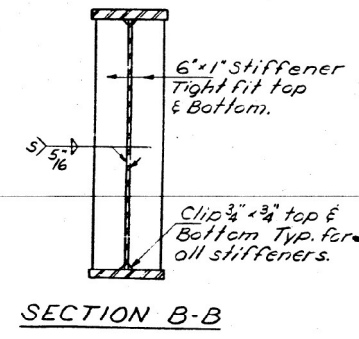
STRUCTURAL STEEL  
F.A. RT. 57 SEC. 41-34B  
JEFFERSON COUNTY  
STA. 2387D+06.95



FOR INFORMATION ONLY  
SN 041-0060

TOP OF WEB ELEVATIONS (For Fabrication Only)

	Brig WA	Splice 1	Joint B	Splice 2	Splice 3	Joint C	Splice 4	Brig EA
Frame 1	520.63	519.89	519.35	518.90	517.55	517.09	516.52	515.88
Frame 2	519.93	519.19	518.65	518.19	516.85	516.38	515.81	515.17
Frame 3	519.22	518.48	517.93	517.48	516.13	515.67	515.09	514.45
Frame 4	518.51	517.77	517.22	516.77	515.42	514.95	514.38	513.73
Frame 5	517.79	517.05	516.50	516.04	514.69	514.22	513.64	512.99
Frame 6	517.06	516.32	515.77	515.31	513.96	513.49	512.91	512.26



DESIGNED *Fla. Lewis*  
CHECKED *Tom McConell*  
DRAWN *Thomas A. Lewis*  
CHECKED *Tom McConell*

EXAMINED *Paul E. Johnson*  
PASSED *U.E. Hoff*  
APPROVED *U.E. Hoff*

384 7 1946

FRAME ELEVATION  
F.A.I.R. 57 SEC. 41-3HB  
JEFFERSON CO.  
STA. 2387D+06.95

Rev. W.H. 6-10-67 Detail of Column Splice (exterior frame) & Note W added

MODEL NUMBER MATES FILE NUMBER SHEETS

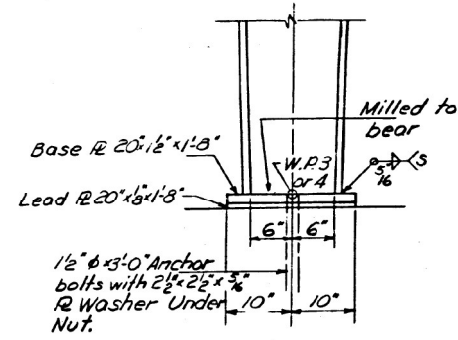
USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = 5/8" = 1'-0"	DRAWN - _____	REVISED - _____
PLOT DATE = 5/24/67	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

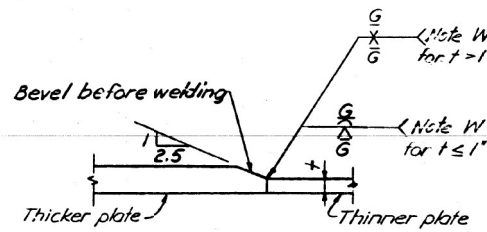
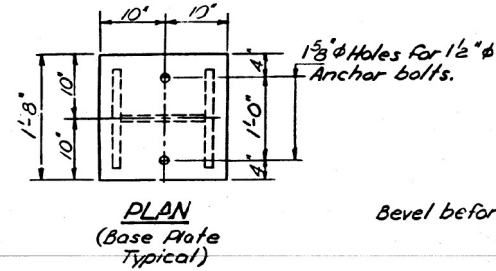
SN 041-0060

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

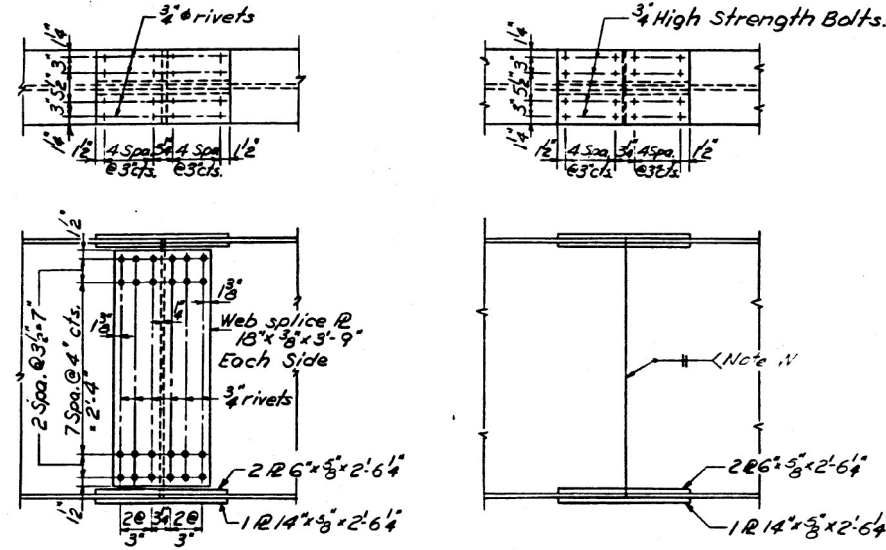
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78882	



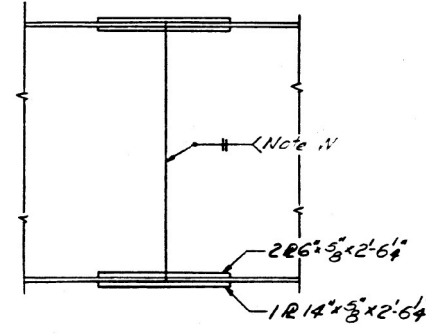
**DETAIL B**  
(Rotate 30° to get proper orientation)



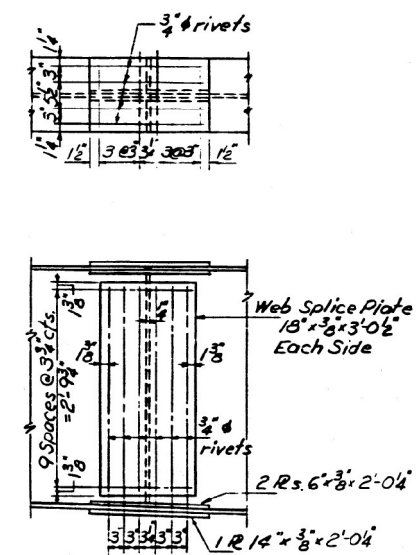
**SHOP FLANGE SPLICE**



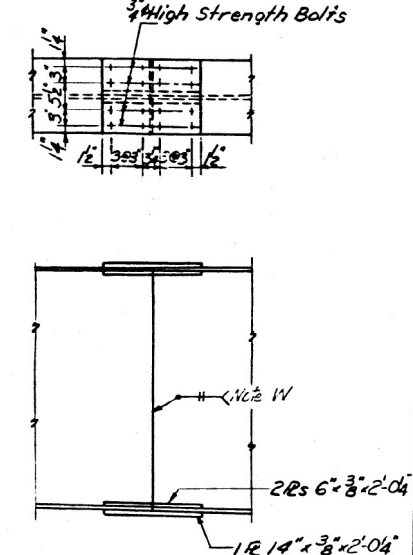
**FIELD SPLICE**  
(For Splices 2 & 3 Interior Frames only)



**FIELD SPLICE**  
(For Splices 2 & 3 Exterior Frames only)



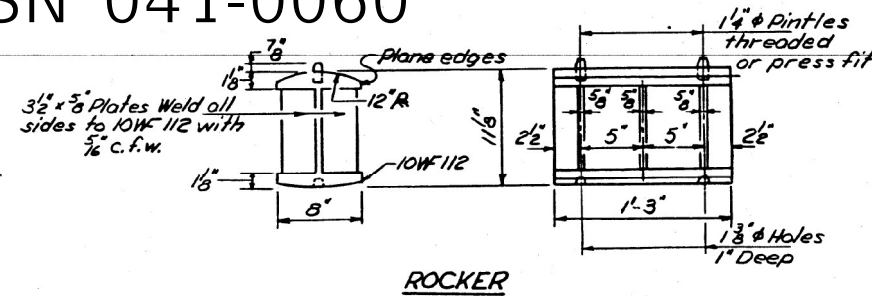
**FIELD SPLICE**  
(For Splices 1 & 4 Interior Frames only)



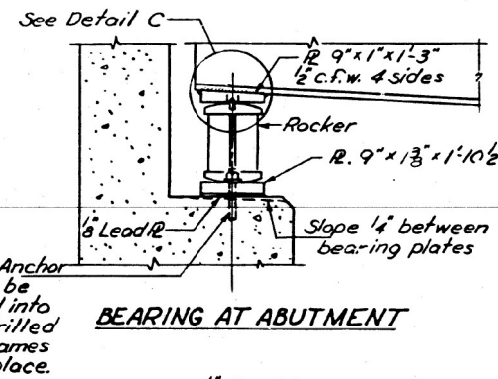
**FIELD SPLICE**  
(For Splices 1 & 4 Exterior Frames only)

Note W. Joints in accordance with A.M.S. D.2.0-66.

FOR INFORMATION ONLY  
SN 041-0060



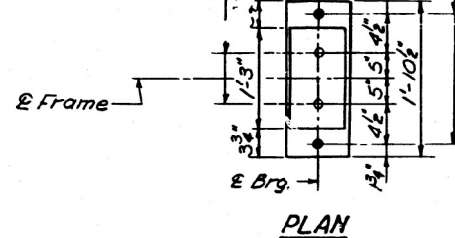
**ROCKER**



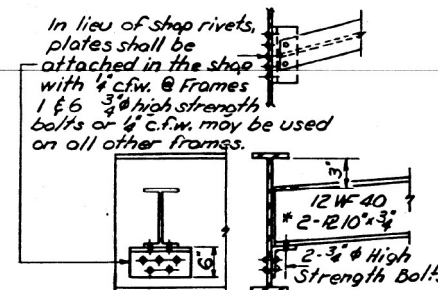
**BEARING AT ABUTMENT**

1" x 12" Anchor Bolts to be grouted into holes drilled after frames are in place.

1 1/2" diameter holes 1" deep in top R. for pintles. Thread or press fit pintles into bottom.

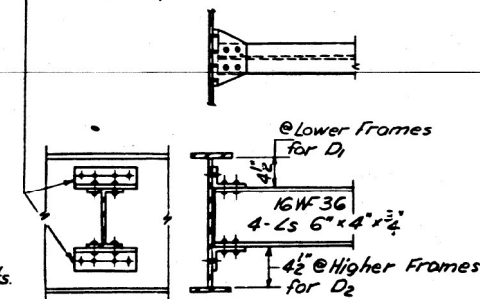


**PLAN**



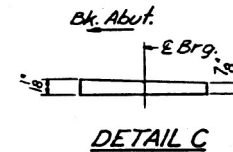
**DIAPHRAGM D**  
D1 20 Required  
\*Bend R to fit slope.

In lieu of field rivets angles shall be attached in shop with 1/4" c.f.w. & 1/8" filler under top angles @ frames 1 & 6



**DIAPHRAGM D1 & D2**  
D1 20 Required  
D2 30 Required

Note: Work this sheet with sheets #6 & #7



**DETAIL C**

Contact surfaces of all field splices shall be free of all oil & paint.

**STRUCTURAL STEEL DETAILS**  
F.A. R. 57 SEC. 41-34B  
JEFFERSON COUNTY  
STATION 23&70+06.95

DESIGNED	W. H. King	EXAMINED	SP 7 1966
CHECKED	Gene McConill	PASSED	A. J. [Signature]
DRAWN	Thomas A. Lewis	APPROVED	D. E. [Signature]
CHECKED	Gene McConill		

Per W.H. 6-12-67 Field Splice (exterior frame only) & Note W added.

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 5/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 5/24/66	CHECKED -	REVISED -
	DATE -	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE PAINT 2023-1	VARIOUS	36	36
CONTRACT NO. 78882				
ILLINOIS FED. AID PROJECT				