

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	1
		ILLINOIS CONTRACT NO.	64L05	

\* 21+9 = 30 TOTAL SHEETS  
D-92-018-16

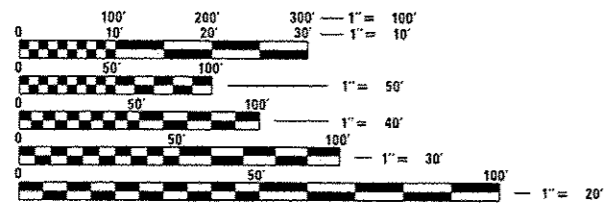
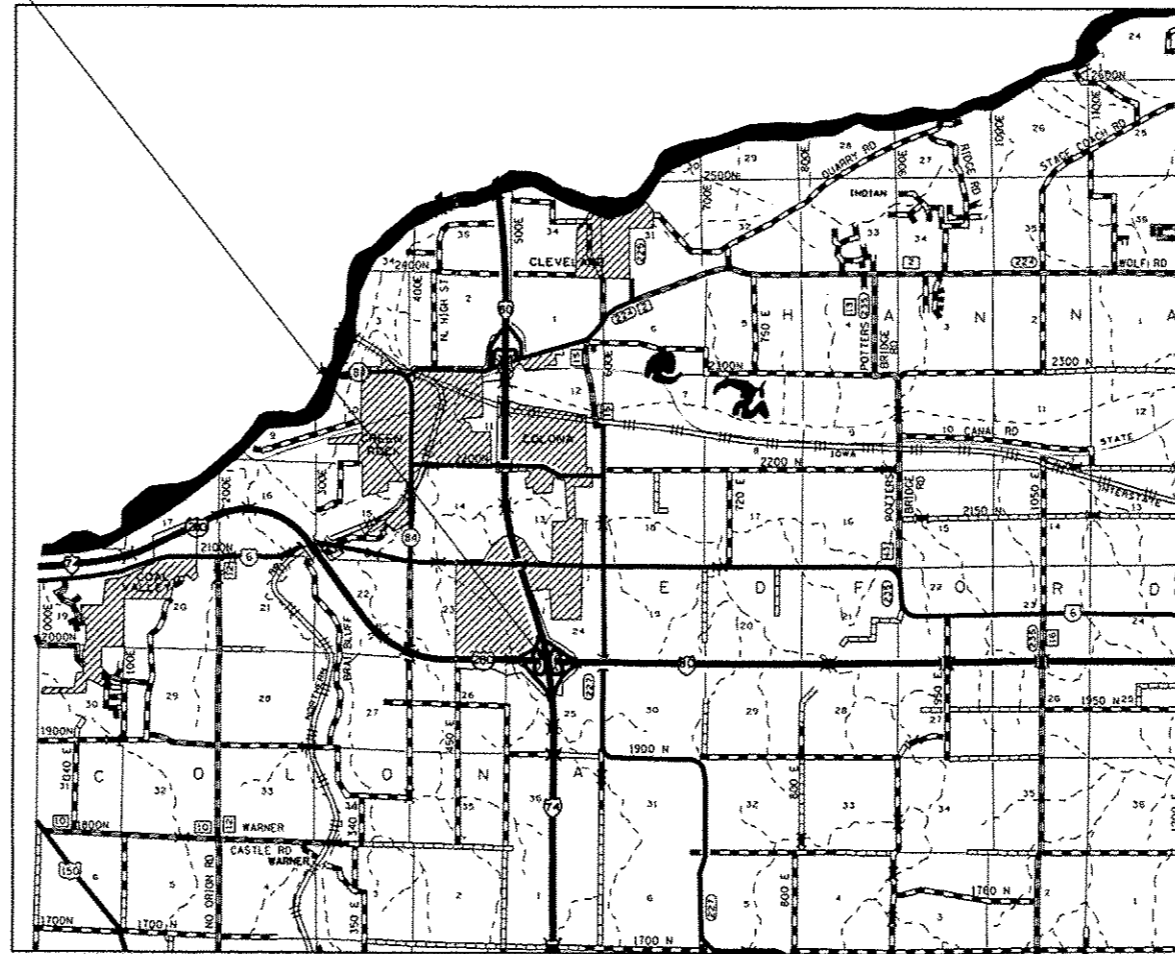
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

PROPOSED  
HIGHWAY PLANS

FAI ROUTE 80 (I-80)  
SECTION D2 DECK REPAIR 2016-1  
TYPE of IMPROVEMENT: DECK REPAIR  
HENRY COUNTY

C-92-010-16

SN 037-0031  
SN 037-0032



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

PROJECT ENGINEER: DAVID DOSS (815) 284-5416  
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64L05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *Dec. 15<sup>th</sup> 2015*  
*Paul C. [Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*Jan 29 2016*  
*Mahmoud Etemadi, PE*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Jan 29 2016*  
*Omer Osman, PE*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-6	STAGING TYPICALS
7	DETOUR MAP FOR NORTHWEST RAMP
8-10	TRAFFIC CONTROL PLAN - STAGE I - FOR SN's 037-0031 & 037-0032
11-13	TRAFFIC CONTROL PLAN - STAGE II - FOR SN's 037-0031 & 037-0032
14-15	SIGN DETAILS
16	INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) (DIST STD 39.2)
* 17-21	EXISTING STRUCTURE PLANS FOR SN 037-0031 & SN 037-0032 (FOR INFORMATION ONLY)

\* 16A-16I PROPOSED STRUCTURE PLAN

# STATE 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 - 04	OFF ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701400 - 08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402 - 10	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411 - 09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701451 - 03	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901 - 04	TRAFFIC CONTROL DEVICES
704001 - 07	TEMPORARY CONCRETE BARRIER
720011 - 01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
701426-08	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\geq$ 45 MPH

# GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

(Type name & phone number of JULIE companies from attached utility form.)

Electric:

MIDAMERICAN ENERGY  
ATTN: NATE TEAGER (563) 333-8706  
5955 FENNO ROAD  
BETTENDORF, IA 52722

Gas:

MIDAMERICAN ENERGY COMPANY  
ATTN: ROD HAWK (309) 793-3760  
2811 5TH AVENUE  
ROCK ISLAND, IL 61201

Telephone:

GENESEO TELEPHONE CO.  
ATTN: ROGER GRANELL (309) 944-8025  
111 EAST 1ST STREET  
GENESEO, IL 61254

Electric-Transmissio:

MIDAMERICAN ENERGY COMPANY  
ATTN: JOHN MONROE (563) 333-8186  
106 EAST SECOND STREET  
DAVENPORT, IA 52801

Communications:

WINDSTREAM  
ATTN: DAVID FERREIRA (309) 282-3110  
211-B SW ADAMS STREET  
PEORIA, IL 61602

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Hazards behind Temporary Concrete Barrier Wall  
No materials, equipment, vehicles or other hazards shall be within 2'-0" of the temporary concrete barrier wall, measured from the closest point of the barrier wall perpendicular to the hazard. Equipment that is actively working with 2'-0" of the barrier wall may be allowed for a short duration, if approved by the engineer, required for the work activity, and there is not another method to complete the work. No materials equipment, vehicles or other hazards shall be stored within 25' of the impact attenuators.

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# SUMMARY OF QUANTITIES

0014  
100%  
State Funds

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
50102400	CONCRETE REMOVAL	CU YD	66.7
50157300	PROTECTIVE SHIELD	SQ YD	930
50300255	CONCRETE SUPERSTRUCTURE	CU YD	66.7
50800205	REINFORCEMENT BARS EPOXY COATED	POUND	7930
50800515	BAR SPLICERS	EACH	120
52000110	PREFORMED JOINT STRIP SEAL	FOOT	430
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	3
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	16,700
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5,567
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1102.29
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1102.29
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	12,536
78300100	PAVEMENT MARKING REMOVAL	SQ FT	4178.67
X70101410	SPEED DISPLAY TRAILER	CAL MO	3
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	70

\*

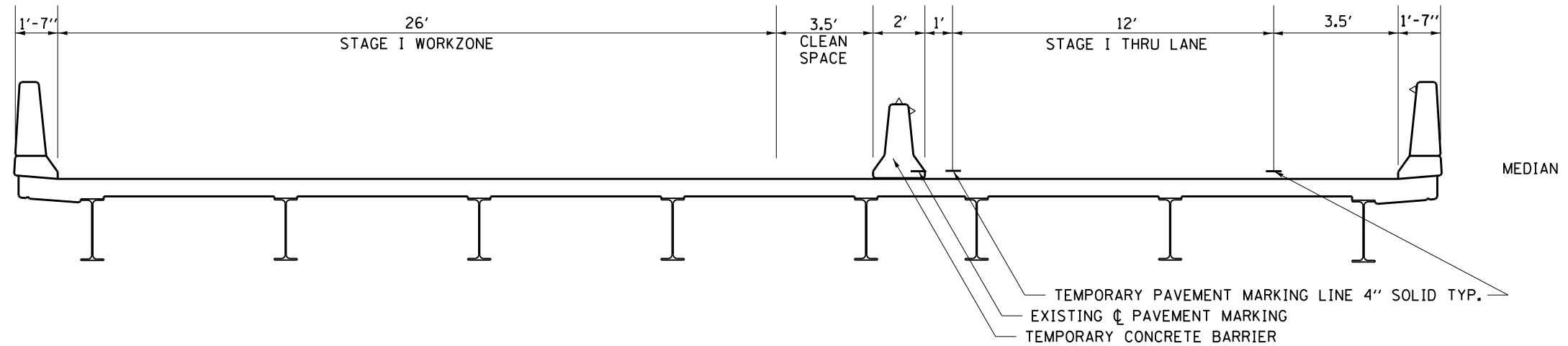
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\* SPECIALTY ITEM

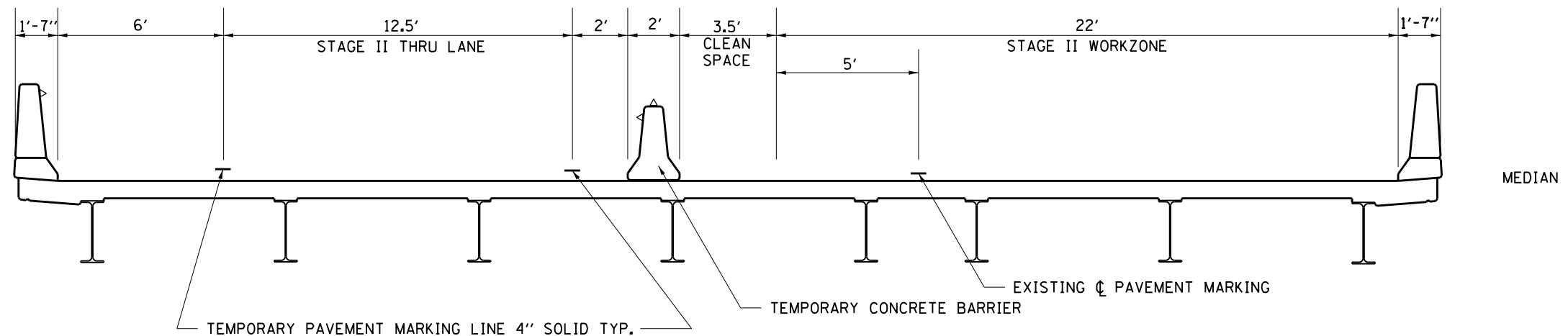


# STAGING TYPICALS SN 037-0031(SB)

STAGE I  
(LOOKING NORTH)



STAGE II  
(LOOKING NORTH)



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

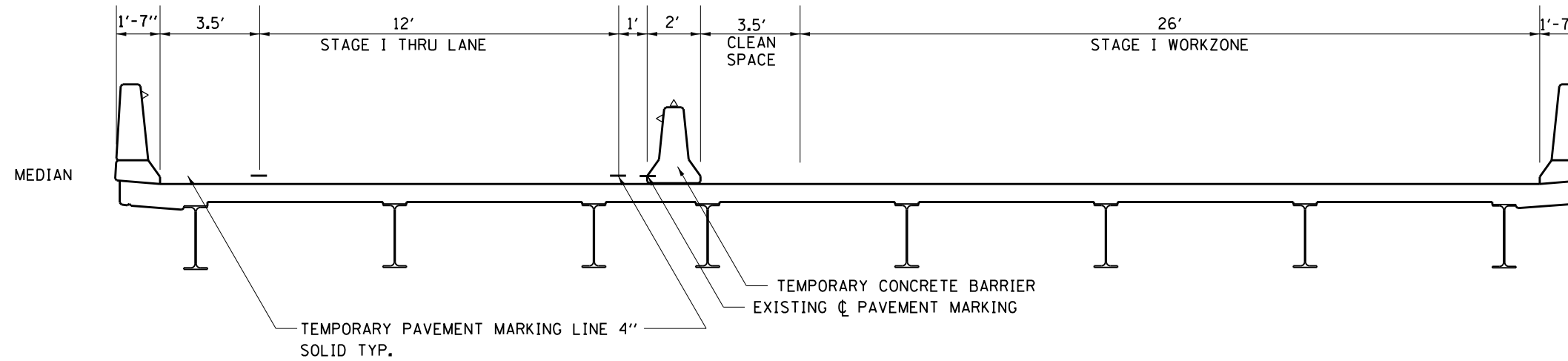
STAGING TYPICALS  
SN 037-0031(SB)

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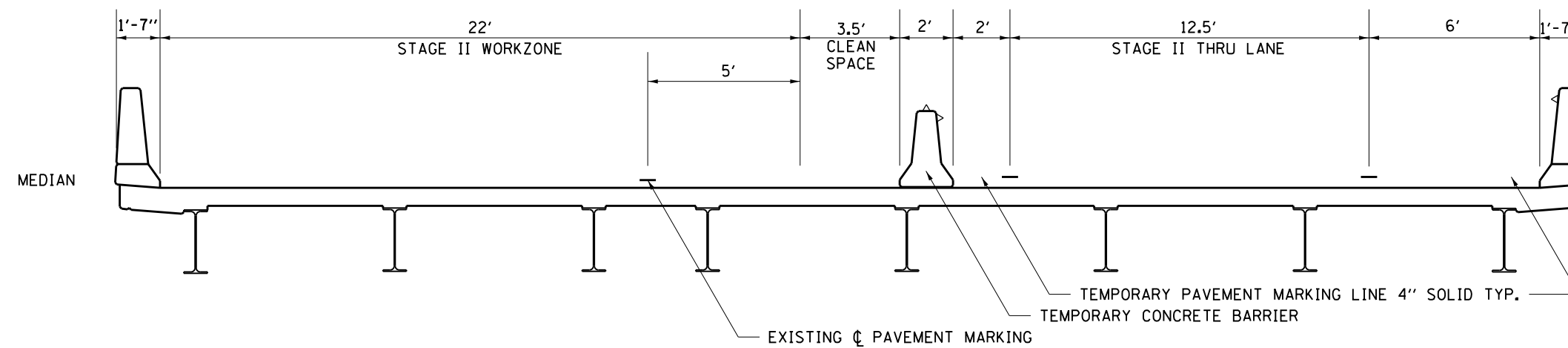
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	5
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	

# STAGING TYPICALS SN 037-0032(NB)

STAGE I  
(LOOKING NORTH)



STAGE II  
(LOOKING NORTH)



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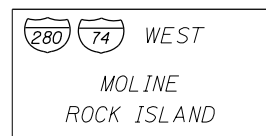
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# DETOUR MAP FOR NORTHWEST RAMP

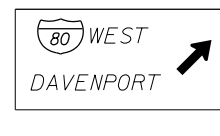
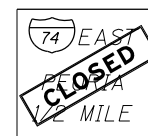
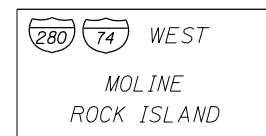


CHANGEABLE MESSAGE BOARD  
 RAMP TO I-74 EB CLOSED / FOLLOW MARKED DETOUR / USE NEXT RAMP

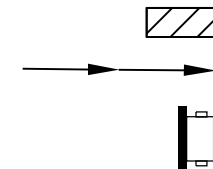
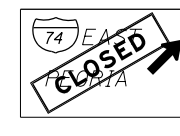
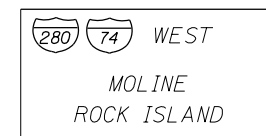
SIGN TRUSS DETAIL



SIGN TRUSS DETAIL



SIGN TRUSS DETAIL



RAMP CLOSURE  
 DETOUR ROUTE  
 PORTABLE CHANGEABLE MESSAGE SIGN

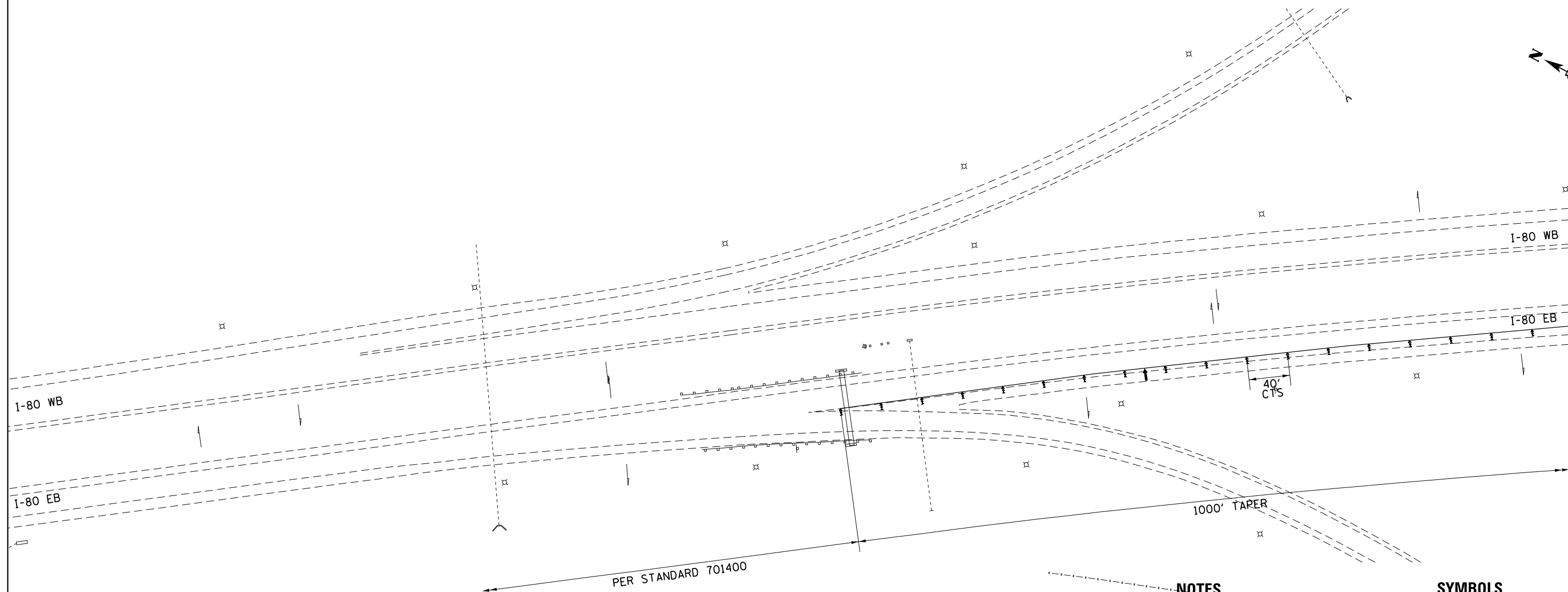
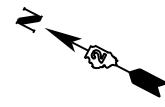
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETOUR MAP FOR NORTHWEST RAMP  
 SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	7
				CONTRACT NO. 64L05
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE I FOR SN's 037-0031 & 037-0032



**MATCHLINE**

**NOTES**

SEE STANDARDS 701400, 701402, 701411 AND 701451 FOR DETAILS NOT SHOWN

**SYMBOLS**

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Impact attenuator

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
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		DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

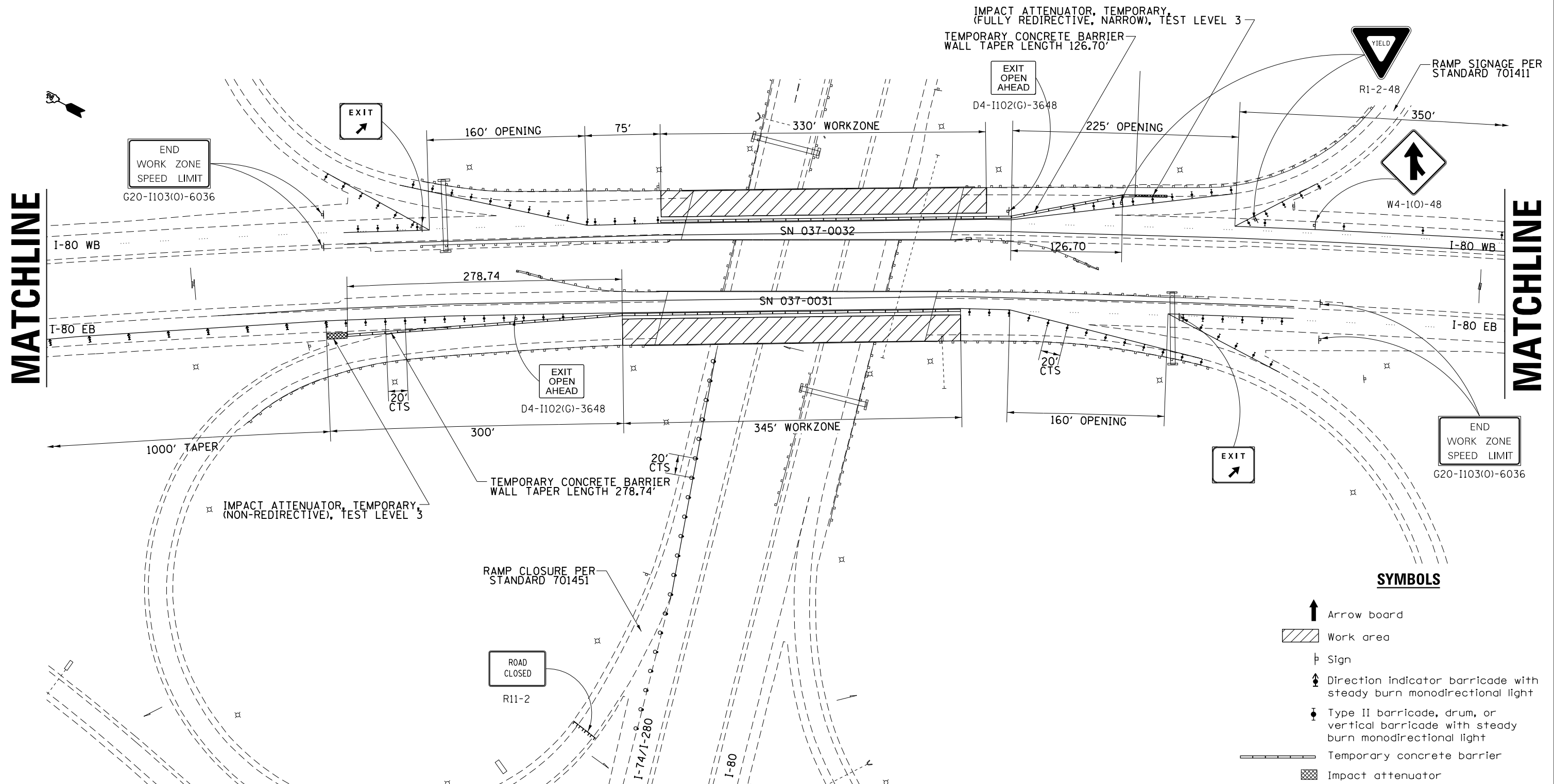
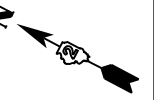
**TRAFFIC CONTROL PLAN – STAGE I  
FOR SN's 037-0031 & 037-0032**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	8
CONTRACT NO.			64L05	
ILLINOIS FED. AID PROJECT				



# TRAFFIC CONTROL PLAN – STAGE I FOR SN's 037-0031 & 037-0032



MATCHLINE

MATCHLINE

**SYMBOLS**

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Impact attenuator

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

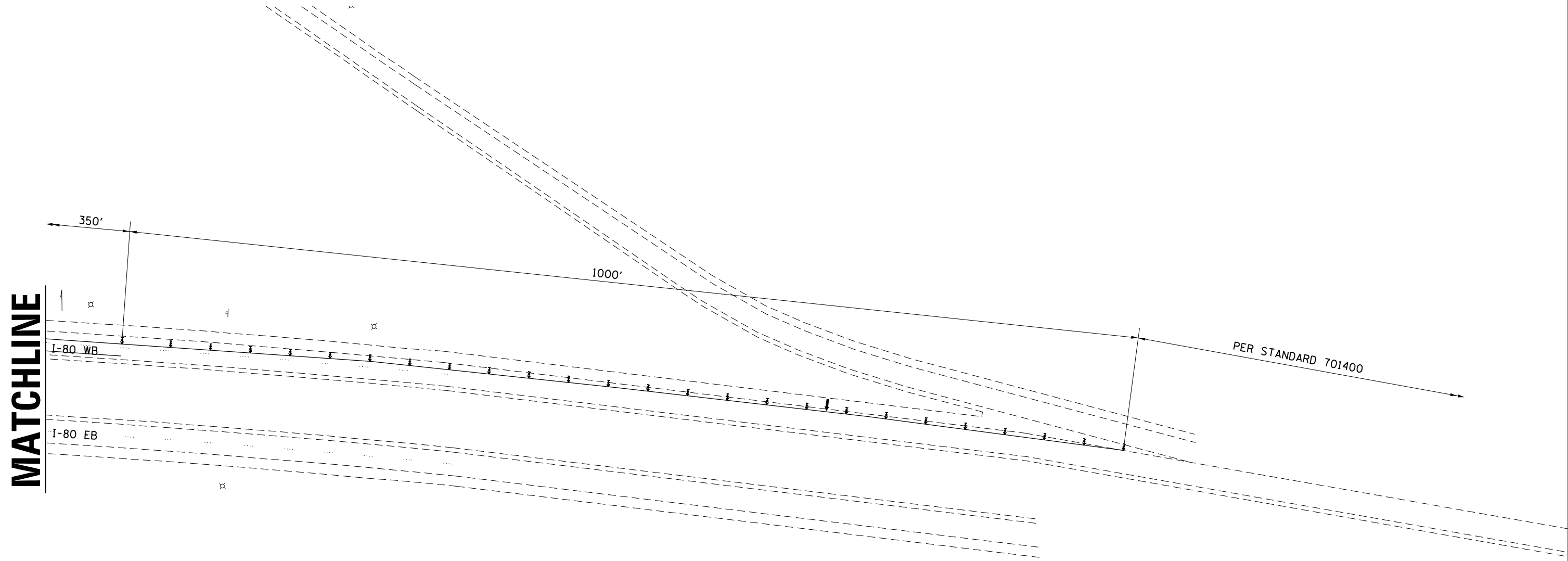
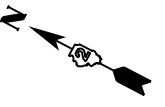
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FOR SN's 037-0031 & 037-0032**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	9
CONTRACT NO. 64L05				

ILLINOIS FED. AID PROJECT

# TRAFFIC CONTROL PLAN – STAGE I FOR SN's 037-0031 & 037-0032



**MATCHLINE**

**SYMBOLS**

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Impact attenuator

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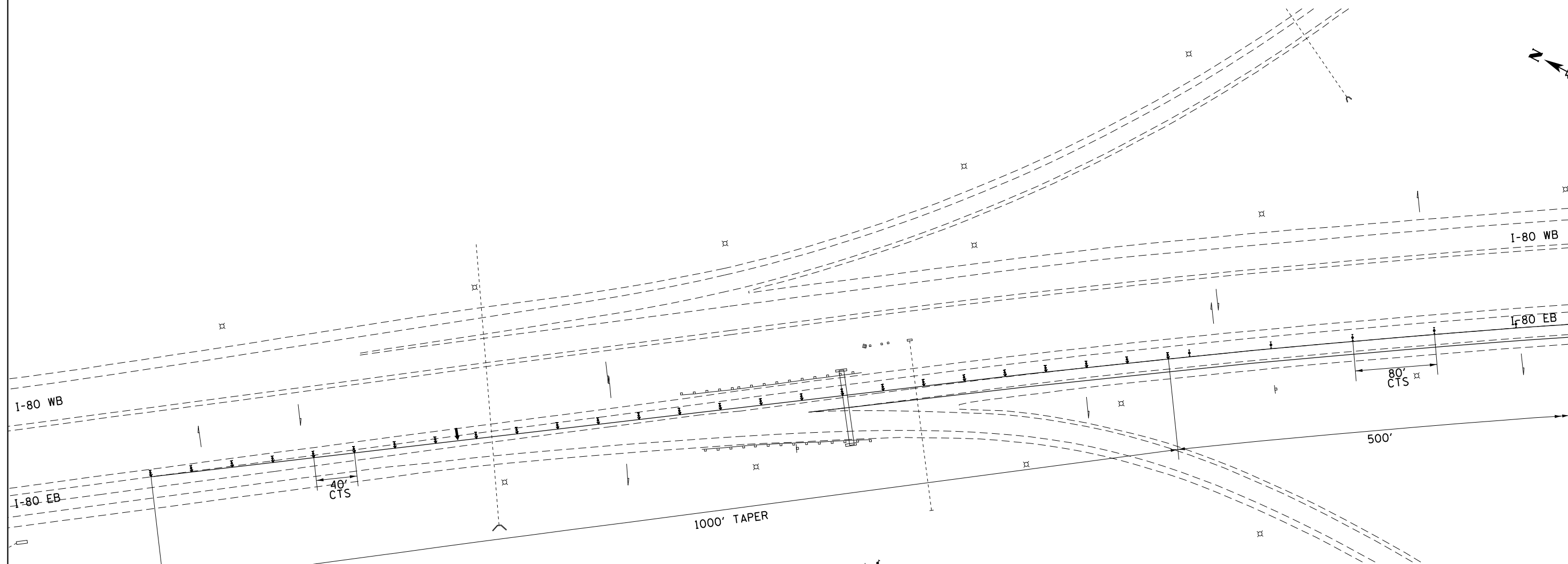
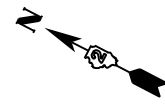
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN – STAGE I  
FOR SN's 037-0031 & 037-0032**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	10
CONTRACT NO.			64L05	
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE II FOR SN's 037-0031 & 037-0032










**MATCHLINE**

**NOTES**

SEE STANDARDS 701400 AND 701402 FOR DETAILS NOT SHOWN

**SYMBOLS**

-  Arrow board
-  Work area
-  Sign
-  Direction indicator barricade with steady burn monodirectional light
-  Type II barricade, drum, or vertical barricade with steady burn monodirectional light
-  Temporary concrete barrier
-  Impact attenuator

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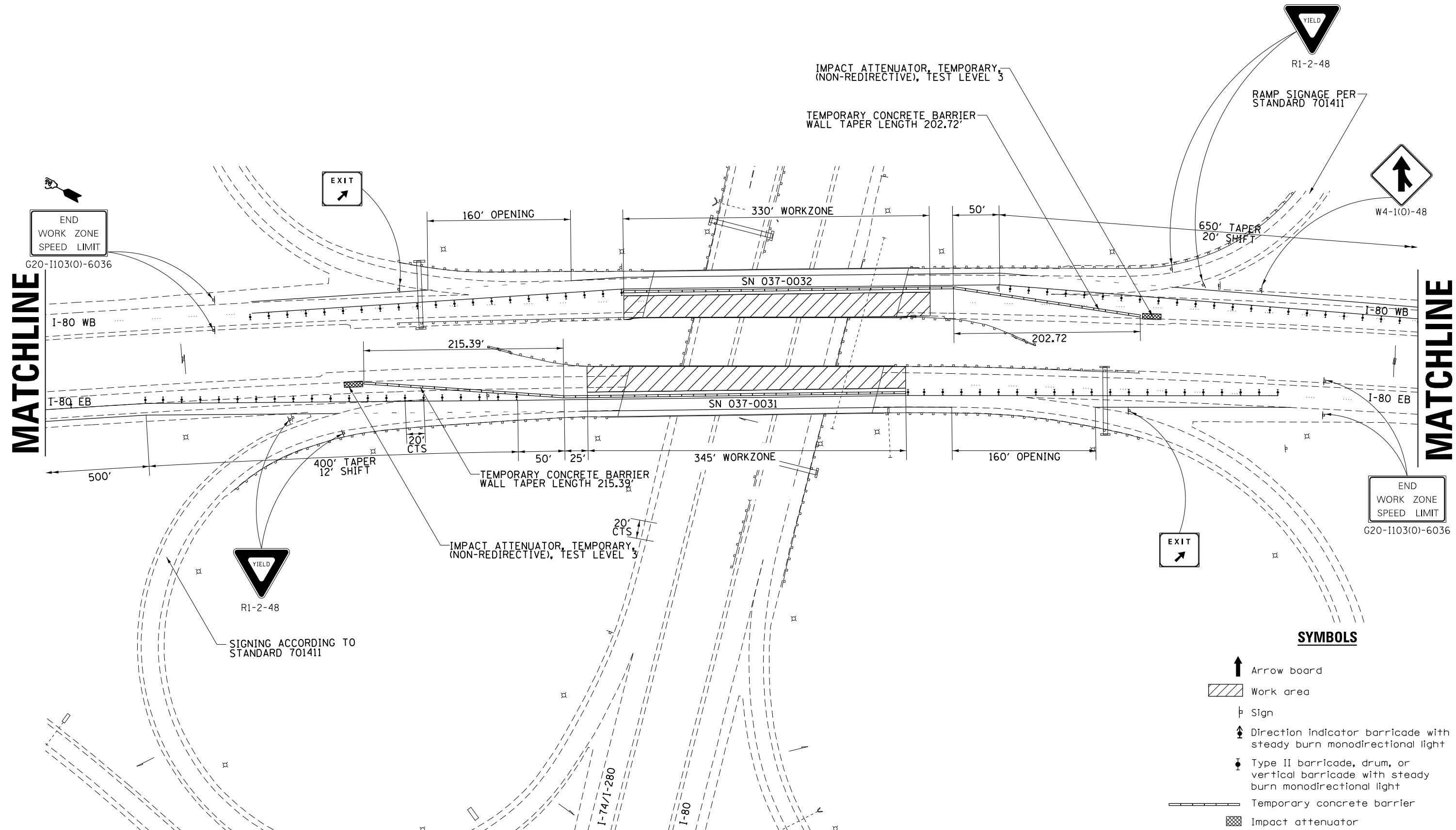
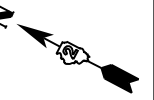
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN – STAGE II  
FOR SN's 037-0031 & 037-0032**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	11
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	

# TRAFFIC CONTROL PLAN – STAGE II FOR SN's 037-0031 & 037-0032



**MATCHLINE**

**MATCHLINE**

**SYMBOLS**

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Impact attenuator

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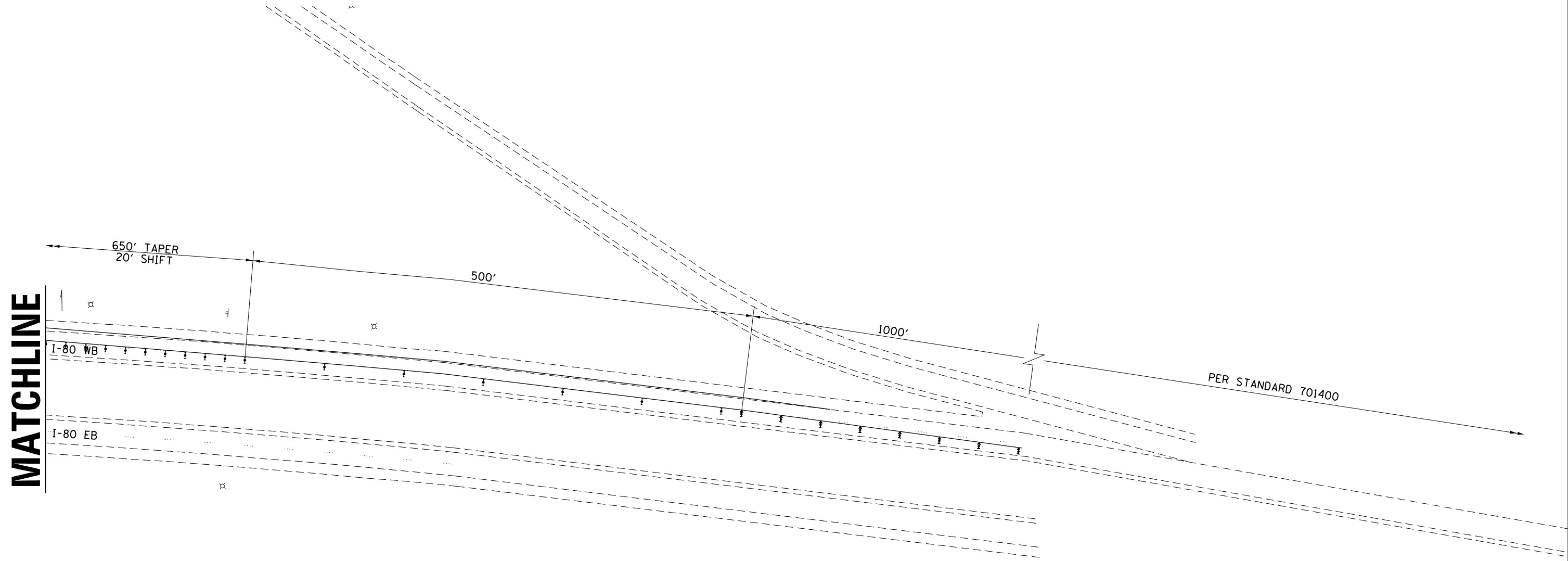
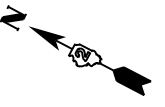
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN – STAGE II  
FOR SN's 037-0031 & 037-0032**

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




F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	12
CONTRACT NO.			64L05	
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE II FOR SN's 037-0031 & 037-0032



**MATCHLINE**

### SYMBOLS

-  Arrow board
-  Work area
-  Sign
-  Direction indicator barricade with steady burn monodirectional light
-  Type II barricade, drum, or vertical barricade with steady burn monodirectional light
-  Temporary concrete barrier
-  Impact attenuator

FILE NAME = D:\BR\Draws\Henry\64L05 Repairs SN 037-0031 and 037-0032\CADD\64L05-shit-cover.dgn	USER NAME = dossdd	DESIGNED - _____	REVISED - _____
Default	PLOT SCALE = 100.0000' / 1in.	DRAWN - _____	REVISED - _____
	PLOT DATE = Dec-08-2015 01:44:26 PM	CHECKED - _____	REVISED - _____
		DATE - _____	REVISED - _____

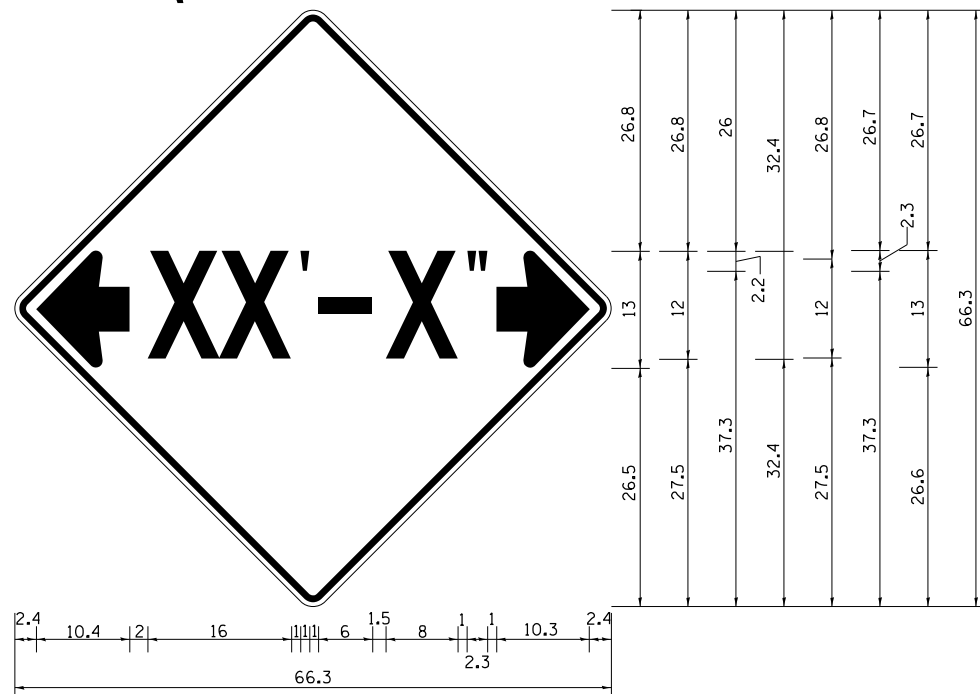
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN – STAGE II  
FOR SN's 037-0031 & 037-0032**

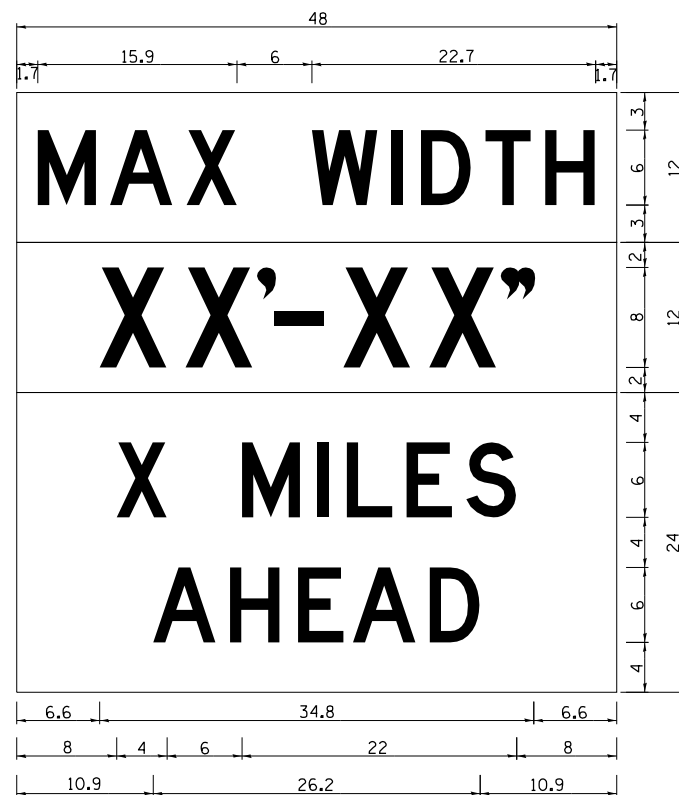
SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	13
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	

# INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



**NOTES**  
 W12-2 - Horizontal Clearance Sign  
 48.0" across sides, 1.9" Radius,  
 0.8" Border, 0.5" Indent, Black on  
 Orange; Standard Arrow Custom  
 10.4" X 8.1" 180° Black 11 Inch  
 D Series Lettering; Standard Arrow  
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);  
 No border, Black on White;  
 [MAX WIDTH] D;

No border, Black on Orange;  
 [XX'-XX''] D;

No border, Black on White;  
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

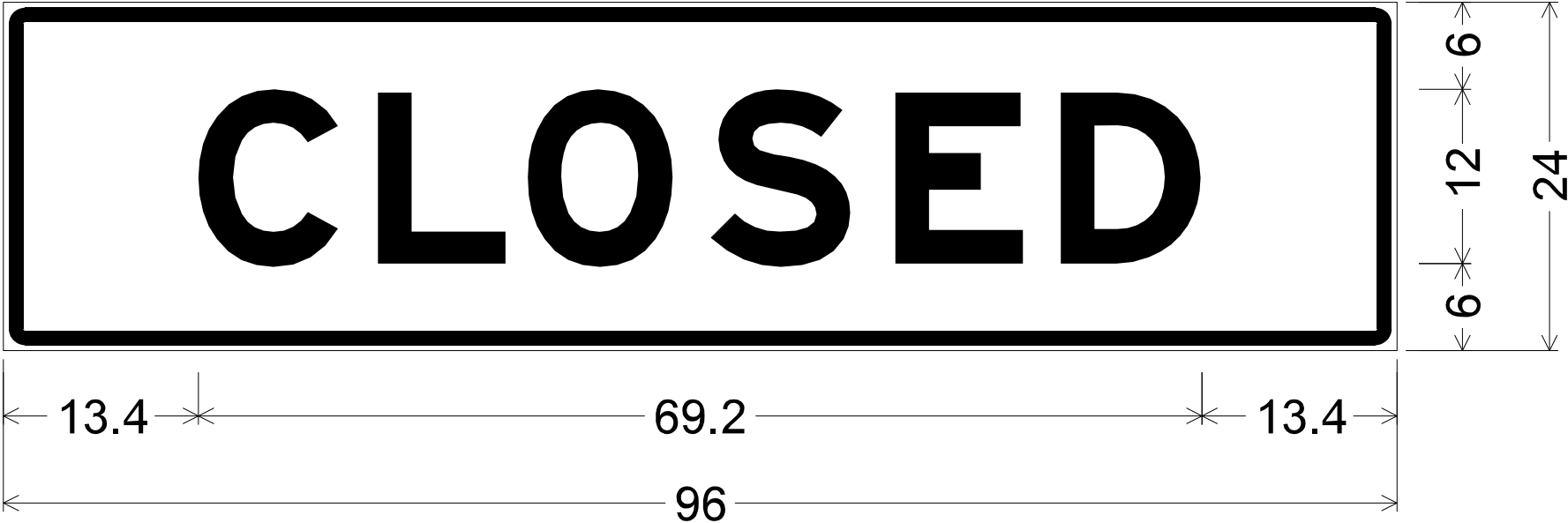
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		80	D2 DECK REPAIR 2016-1	HENRY	21	14
REVISED -		CONTRACT NO. 64L05				
REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLOT DATE = Dec-08-2015 01:44:32 PM

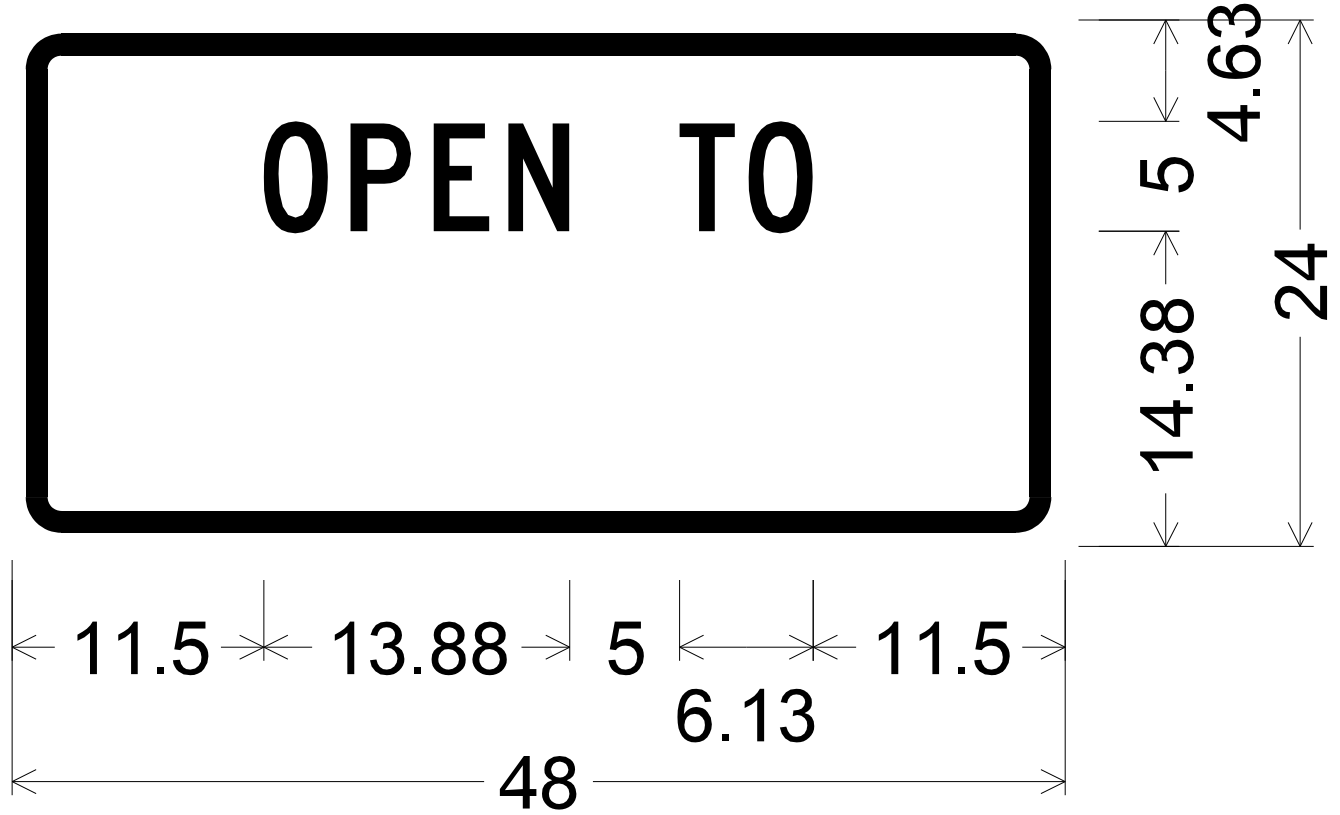
# SIGN DETAILS



1.5" Radius, 1.0" Border, 0.4" Indent, Black on Orange;  
 [CLOSED] E Mod 2K;  
 Table of letter and object lefts.

<b>C</b>	<b>L</b>	<b>O</b>	<b>S</b>	<b>E</b>	<b>D</b>
13.4	25.8	36.1	48.7	61.4	72.8

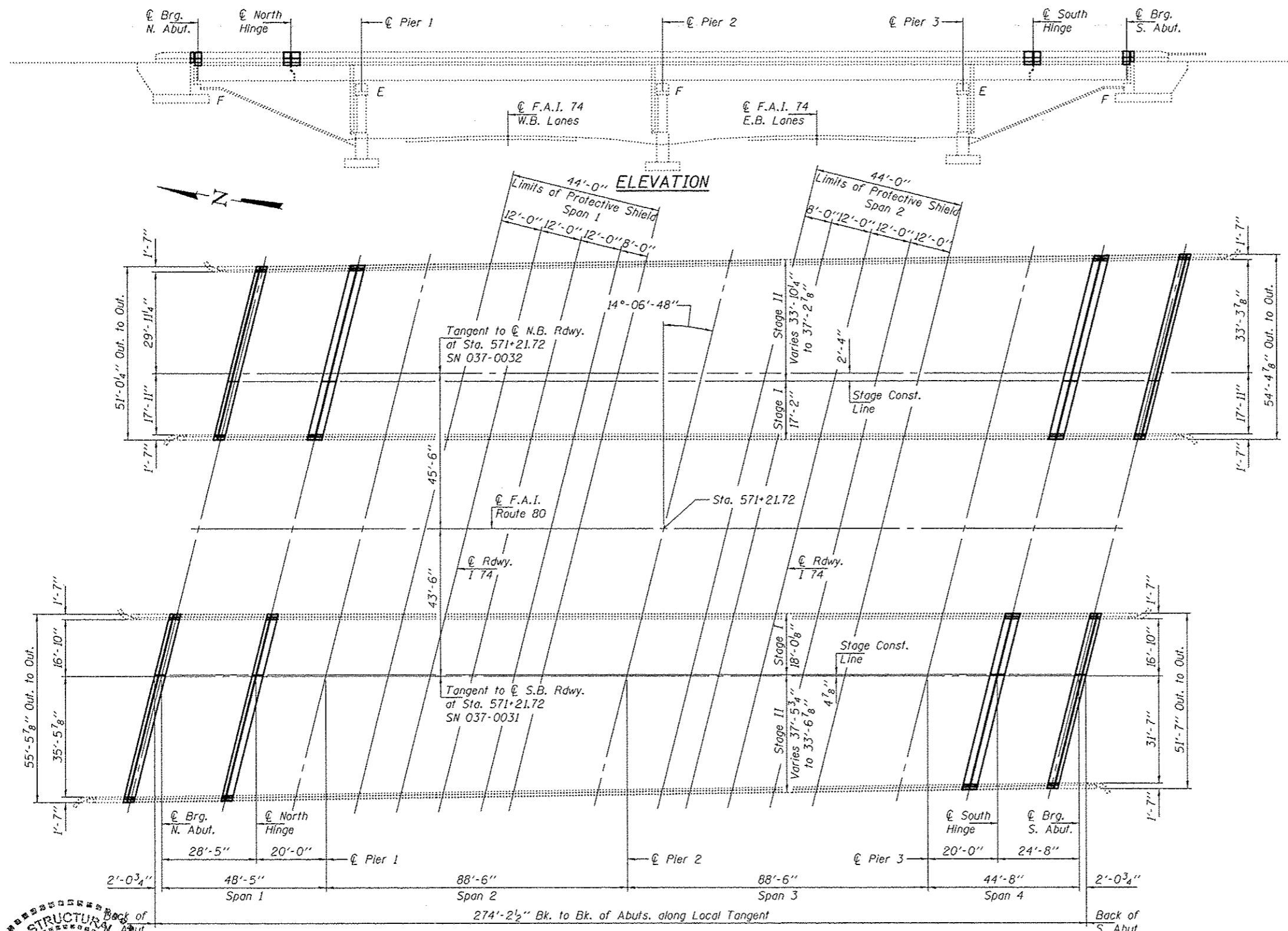
# SIGN DETAILS



2.25" Radius, 1.00" Border, 0.63" Indent, Black on Orange;  
 [OPEN TO] C 2K;  
 Table of letter and object lefts.

O	P	E	N
11.50	15.38	19.25	22.63
T		O	
30.38		33.63	





**PLAN**

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	66.7
Concrete Superstructure	Cu. Yd.	66.7
Reinforcement Bars, Epoxy Coated	Pound	7930
Bar Splicers	Each	120
Preformed Joint Strip Seal	Foot	430
Protective Shield	Sq. Yd.	930
* Deck Slab Repair (Partial Depth)	Sq. Yd.	290
* Deck Slab Repair (Full Depth Type I)	Sq. Yd.	70
* Deck Slab Repair (Full Depth Type II)	Sq. Yd.	70

\* Quantities are estimates. Actual location and size of patches to be determined in the field by the Engineer.



DESIGNED: [Signature] DATE: JANUARY 26, 2016

CHECKED: [Signature]

DRAWN: [Signature]

CHECKED: [Signature]

PASSED: [Signature]

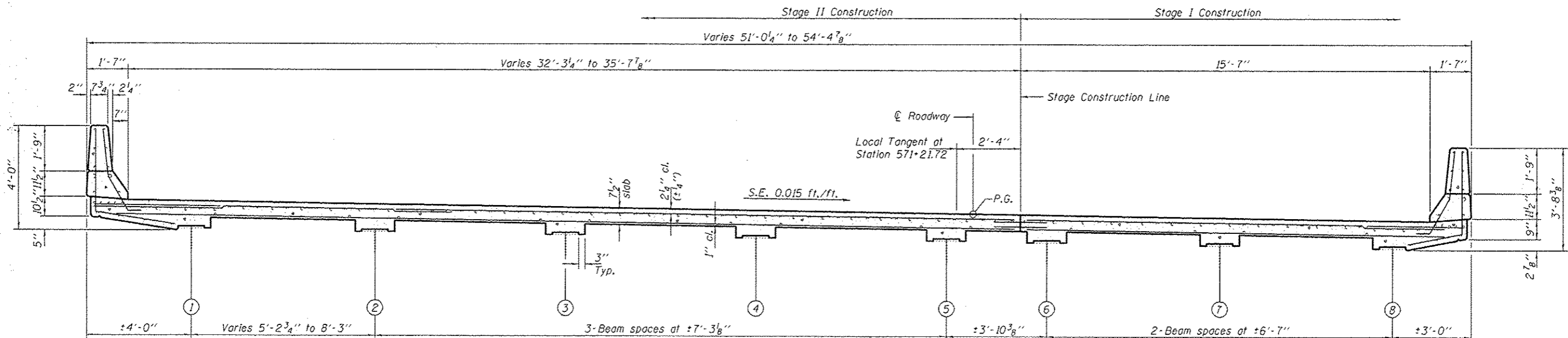
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

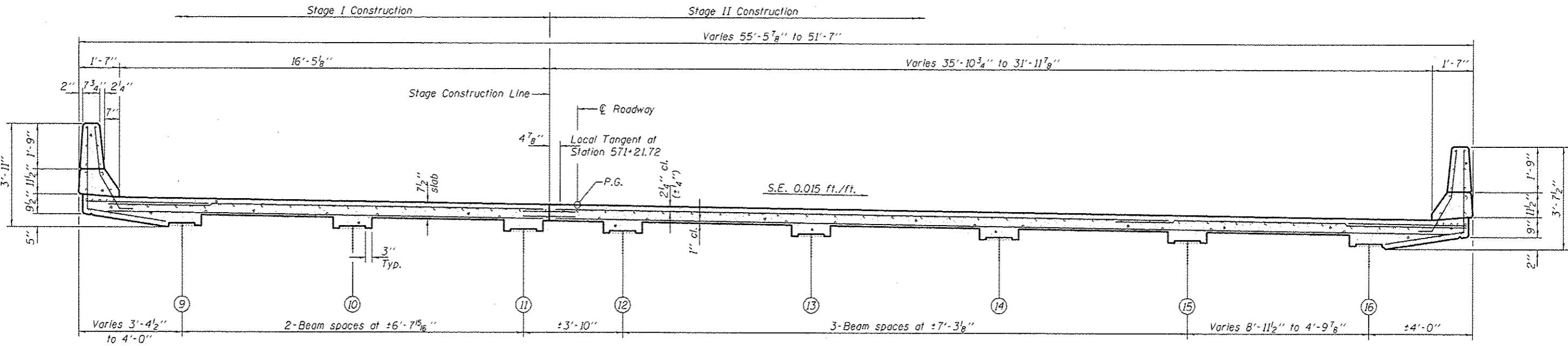
GENERAL PLAN & ELEVATION  
F.A.I. ROUTE 80 OVER F.A.I. ROUTE 74  
SN 037-0031 (S.B.) & 037-0032 (N.B.)  
SHEET NO. 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	16A

CONTRACT NO. 64L05  
ILLINOIS FED. AID PROJECT

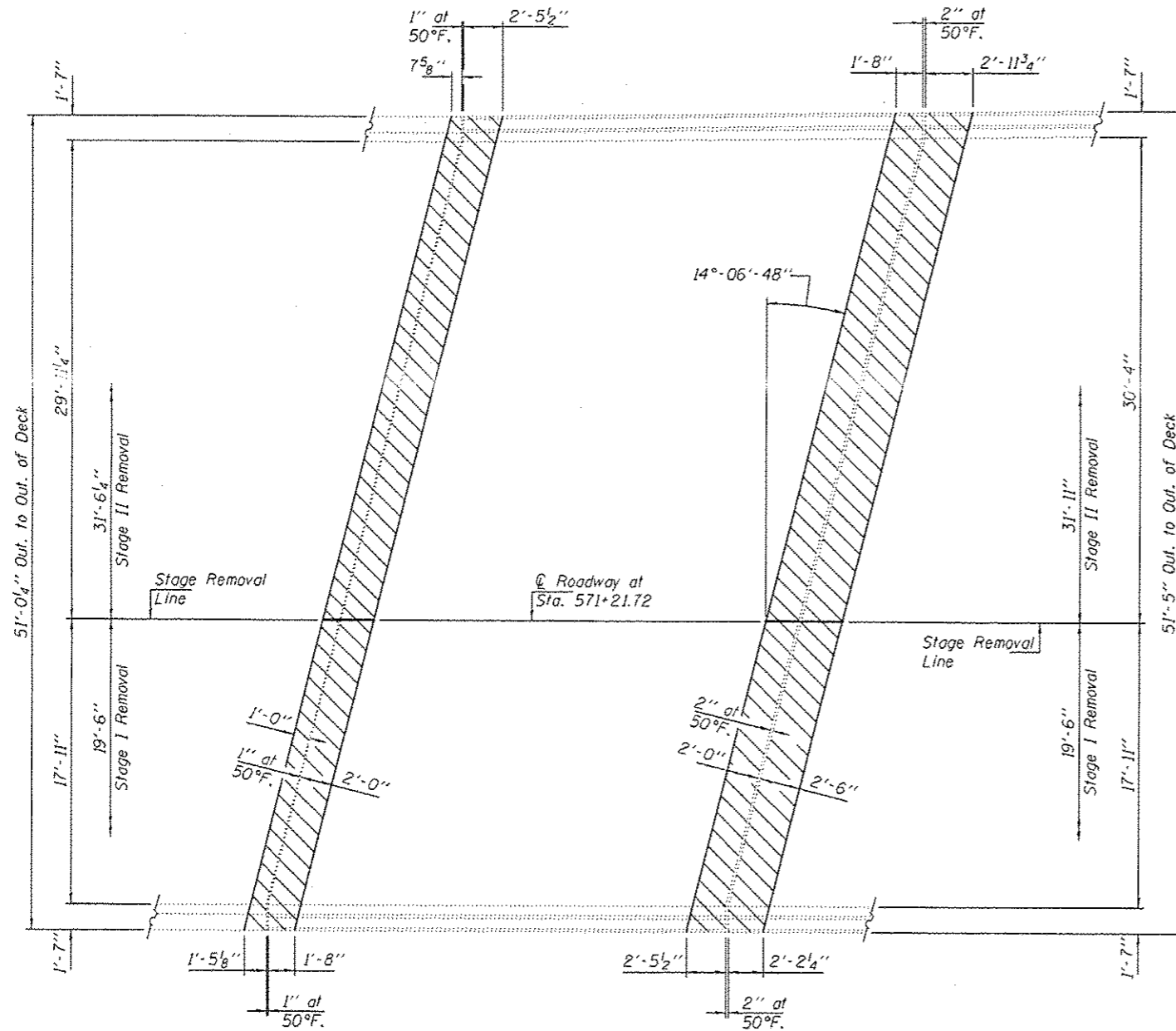
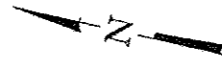


**CROSS SECTION - NORTH BOUND STRUCTURE**  
(Looking South)



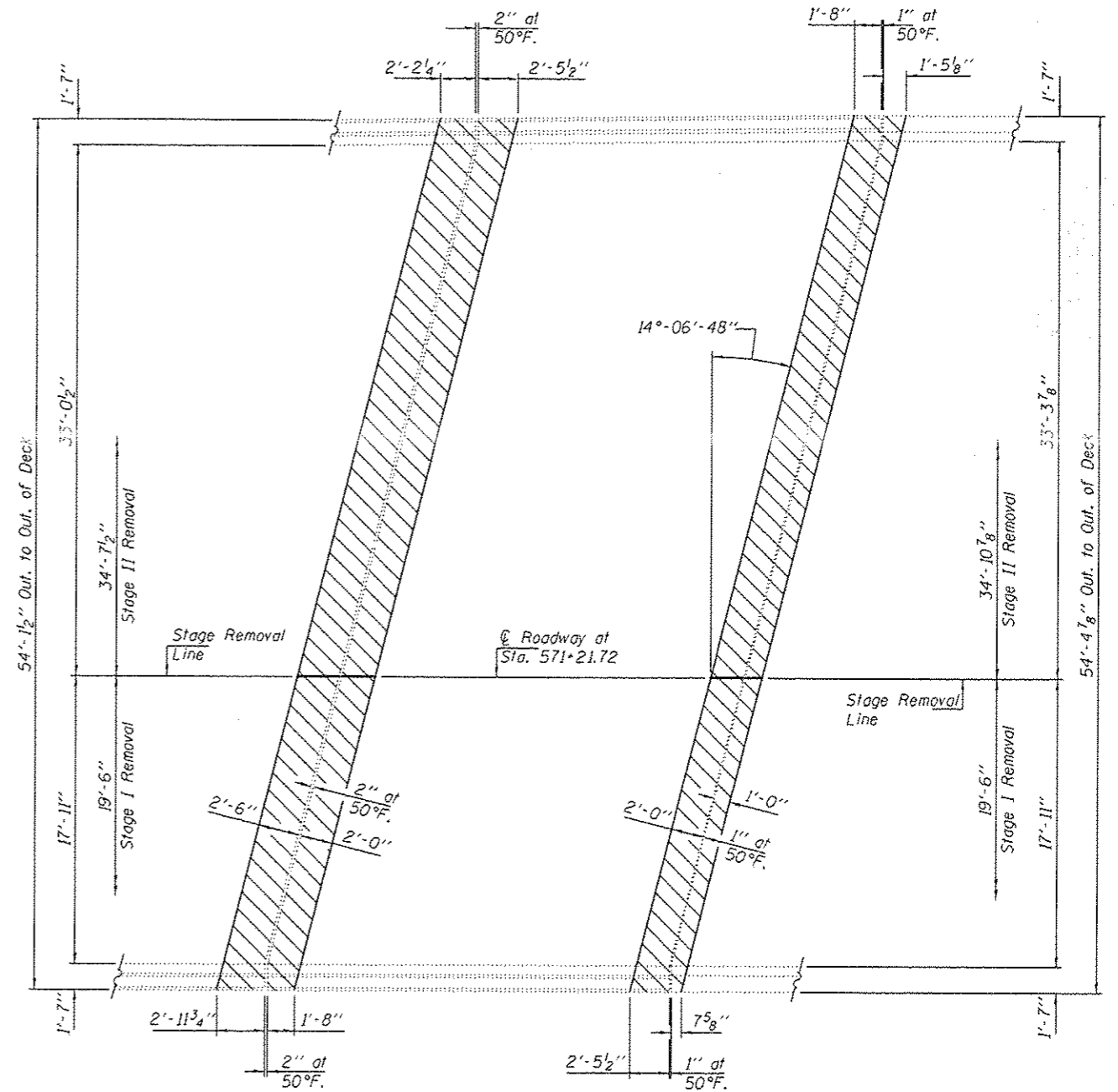
**CROSS SECTION - SOUTH BOUND STRUCTURE**  
(Looking South)

DESIGNED VHV	DATE JANUARY 26, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS SN 037-0031 (S.B.) & 0032 (N.B.)	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED JGY	REVIS			80	D2 DECK REPAIR 2016-1	HENRY	21	168
DRAWN Steffen	REVIS	SHEET NO. 2 OF 9 SHEETS		CONTRACT NO. 64L05				
CHECKED VHV JGY	ACTING ENGINEER OF BRIDGES AND STRUCTURES			ILLINOIS FED. AID PROJECT				



**REMOVAL AT NORTH ABUTMENT**  
SN 037-0032 (North Bound)

**REMOVAL AT NORTH HINGE**  
SN 037-0032 (North Bound)



**REMOVAL AT SOUTH HINGE**  
SN 037-0032 (North Bound)

**REMOVAL AT SOUTH ABUTMENT**  
SN 037-0032 (North Bound)

DESIGNED VHV  
CHECKED JGY  
DRAWN Steffen  
CHECKED VHV JGY

PASSED  
*[Signature]*  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

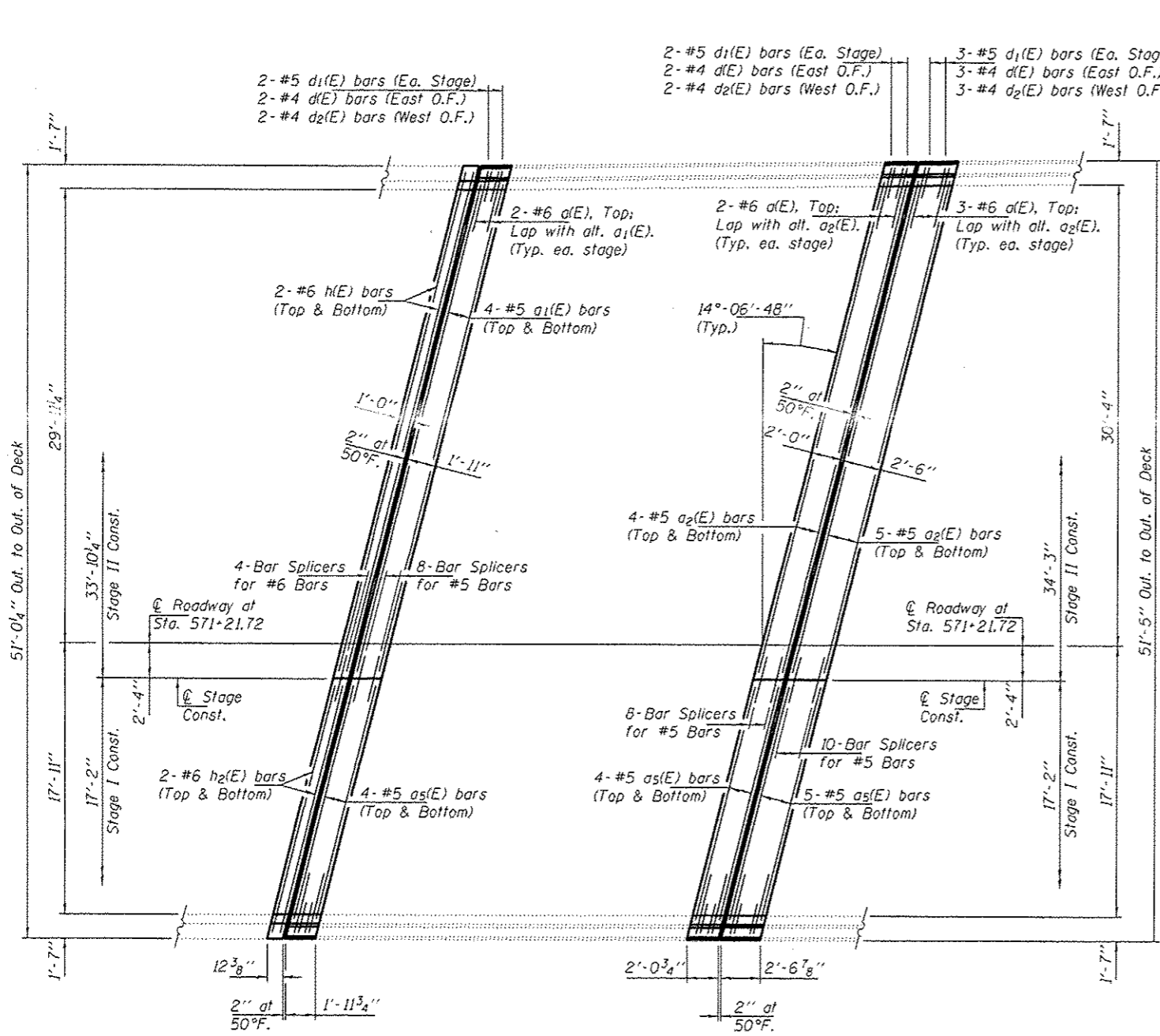
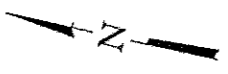
DATE JANUARY 26, 2016  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NORTH BOUND JOINT REMOVAL DETAILS  
SN 037-0032 (N.B.)

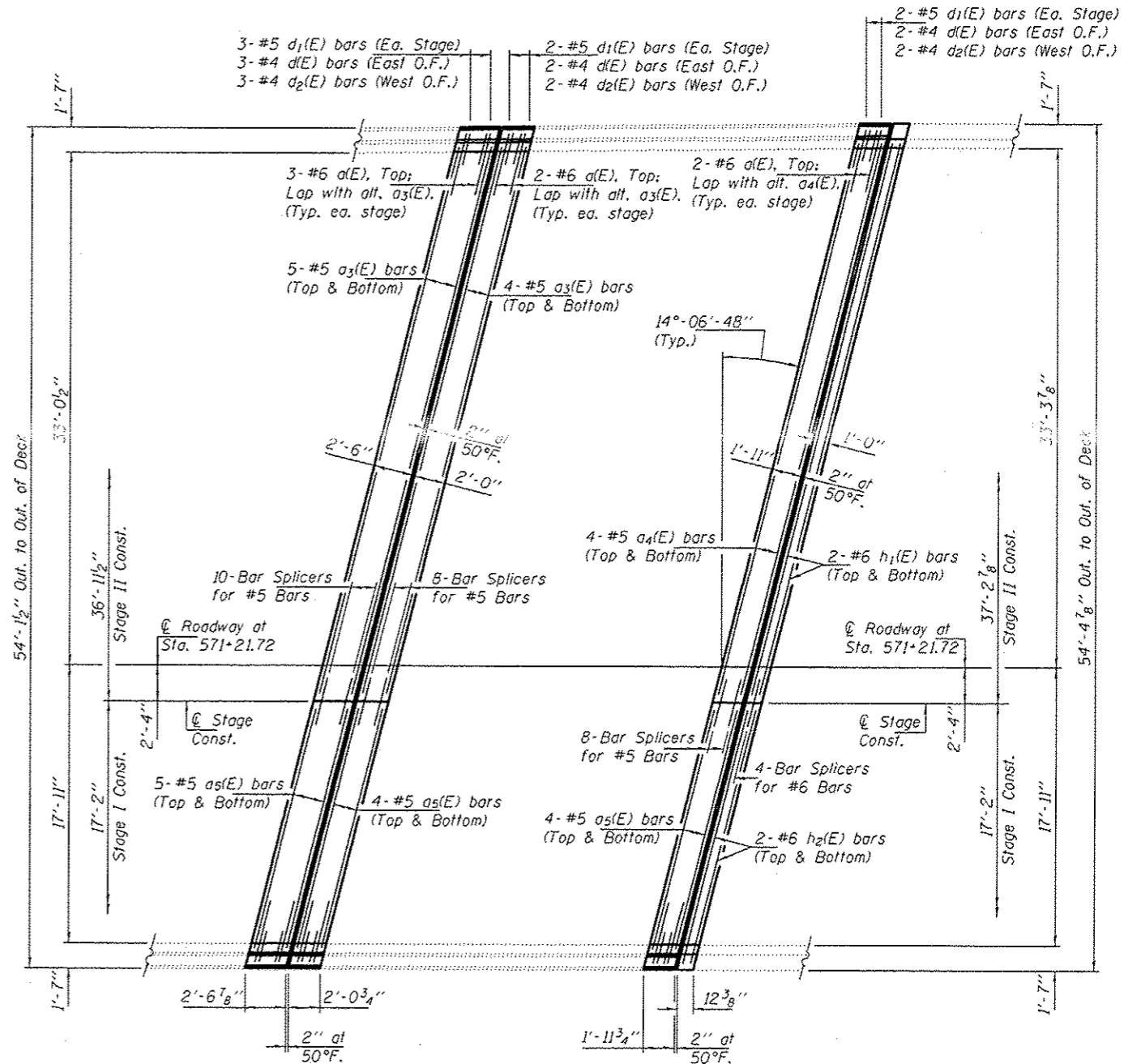
SHEET NO. 3 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	02 DECK REPAIR 2016-1	HENRY	21	16C
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	



**REPLACEMENT AT NORTH ABUTMENT**  
SN 037-0032 (North Bound)

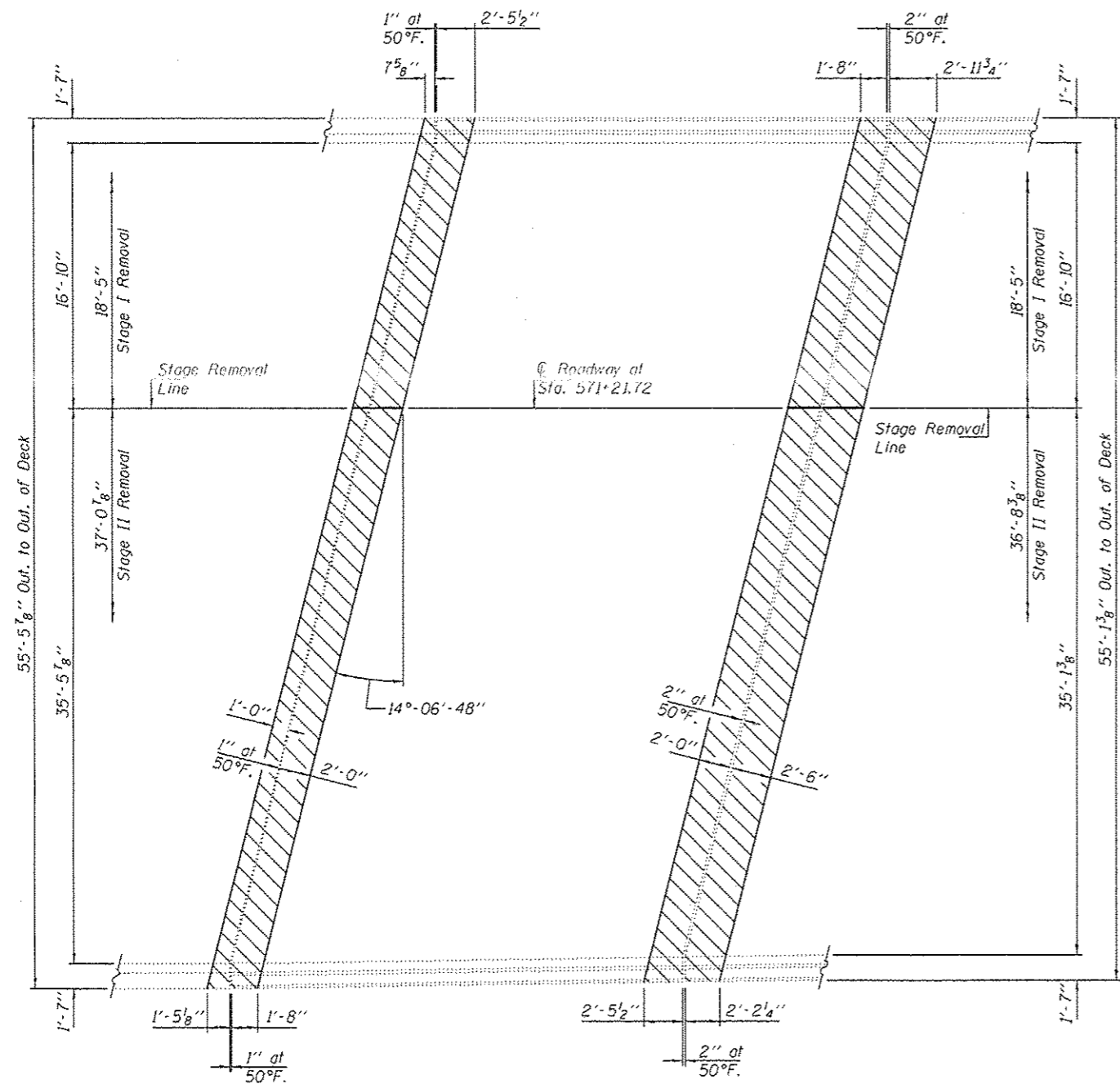
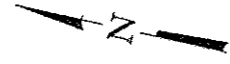
**REPLACEMENT AT NORTH HINGE**  
SN 037-0032 (North Bound)



**REPLACEMENT AT SOUTH HINGE**  
SN 037-0032 (North Bound)

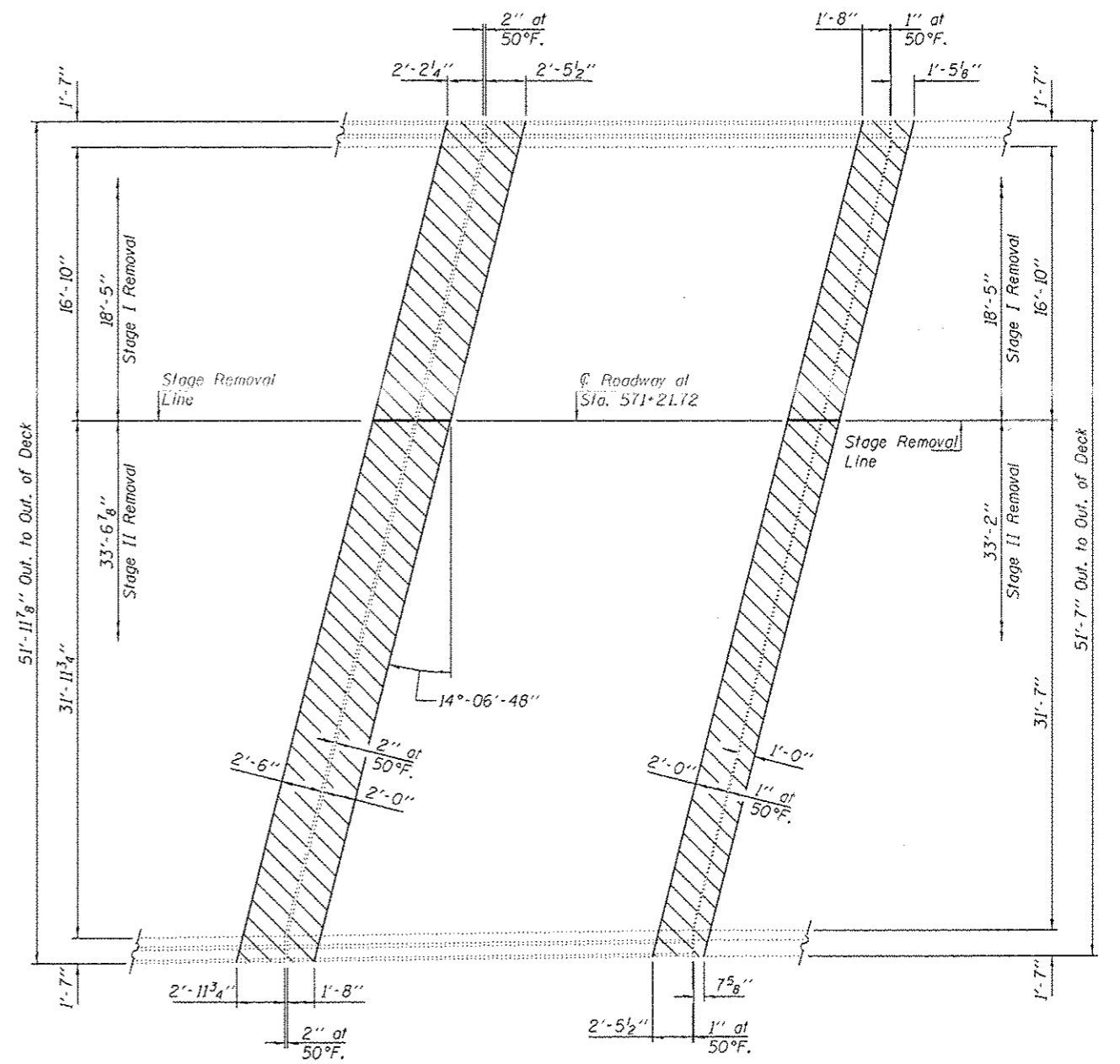
**REPLACEMENT AT SOUTH ABUTMENT**  
SN 037-0032 (North Bound)

DESIGNED VHV	DATE JANUARY 26, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BOUND JOINT REPLACEMENT DETAILS SN 037-0032 (N.B.)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED JGY	REVISIONS		80	D2 DECK REPAIR 2016-1	HENRY	21	160		
DRAWN Steffen	REVISIONS		SHEET NO. 4 OF 9 SHEETS		CONTRACT NO. 64L05				
CHECKED VHV JGY	REVISIONS				ILLINOIS FED. AID PROJECT				



**REMOVAL AT NORTH ABUTMENT**  
SN 037-0031 (South Bound)

**REMOVAL AT NORTH HINGE**  
SN 037-0031 (South Bound)



**REMOVAL AT SOUTH HINGE**  
SN 037-0031 (South Bound)

**REMOVAL AT SOUTH ABUTMENT**  
SN 037-0031 (South Bound)

DESIGNED	VHV
CHECKED	JGY
DRAWN	Steffen
CHECKED	VHV JGY

PASSED  
  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

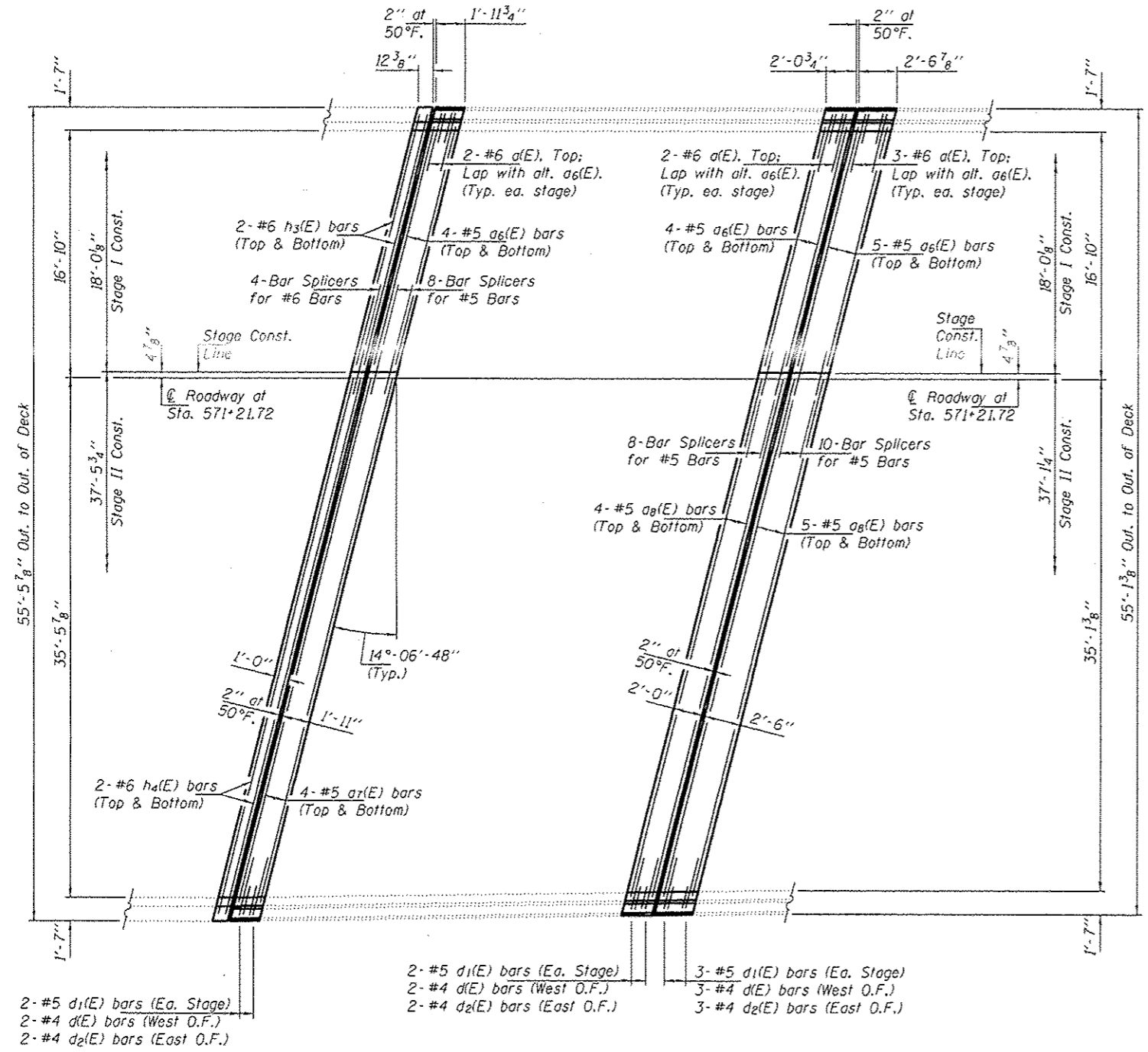
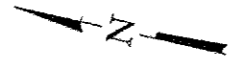
DATE	JANUARY 26, 2016
REVISED	
REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOUTH BOUND JOINT REMOVAL DETAILS  
SN 037-0031 (S.B.)

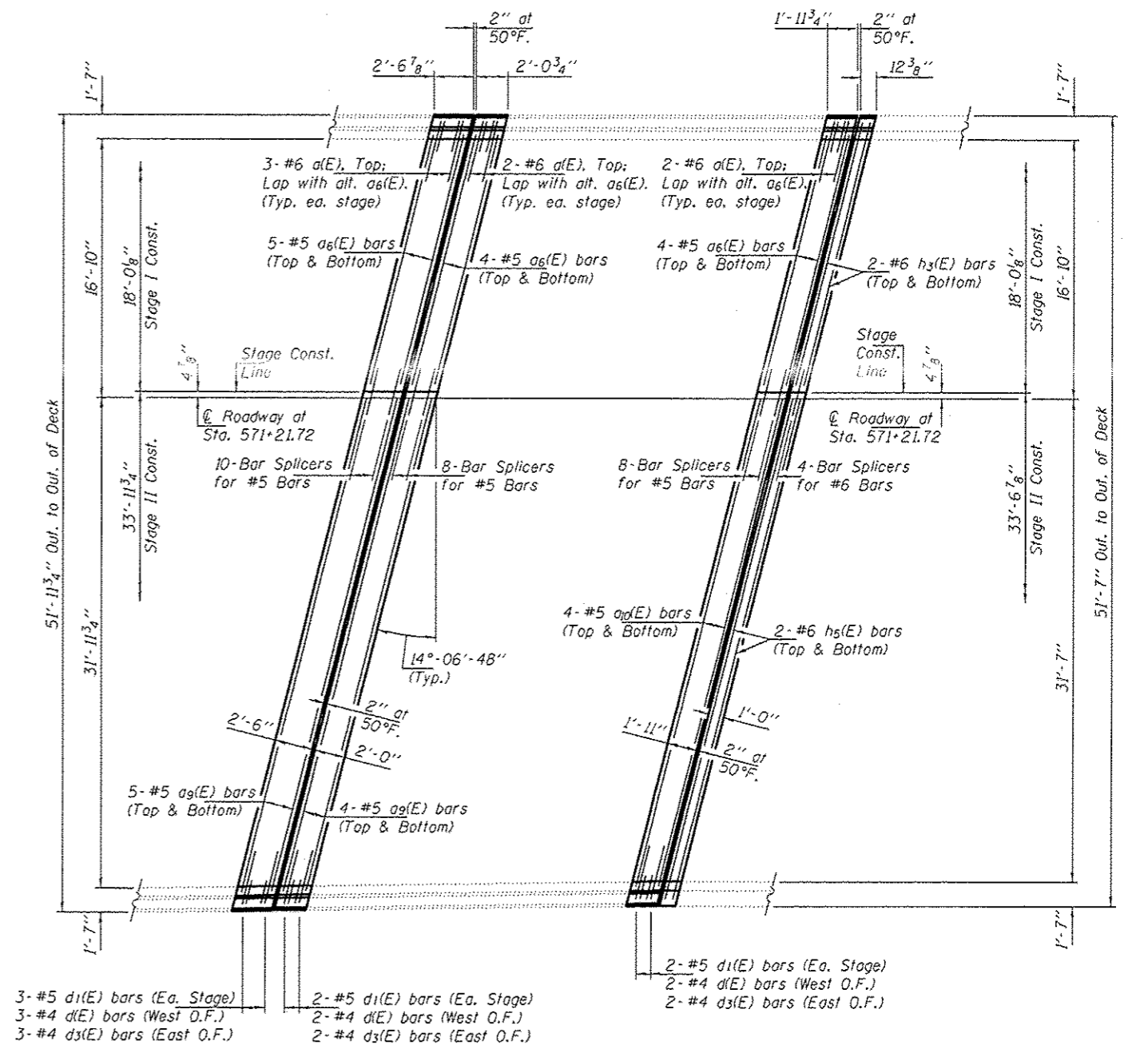
SHEET NO. 5 OF 9 SHEETS

F.A.I. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	16E
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	



**REPLACEMENT AT NORTH ABUTMENT**  
SN 037-0031 (South Bound)

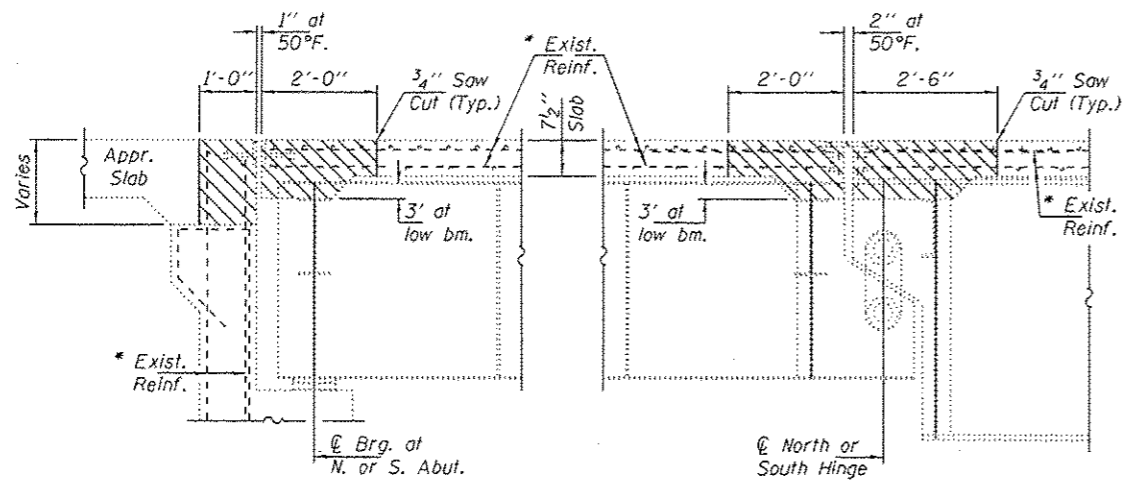
**REPLACEMENT AT NORTH HINGE**  
SN 037-0031 (South Bound)



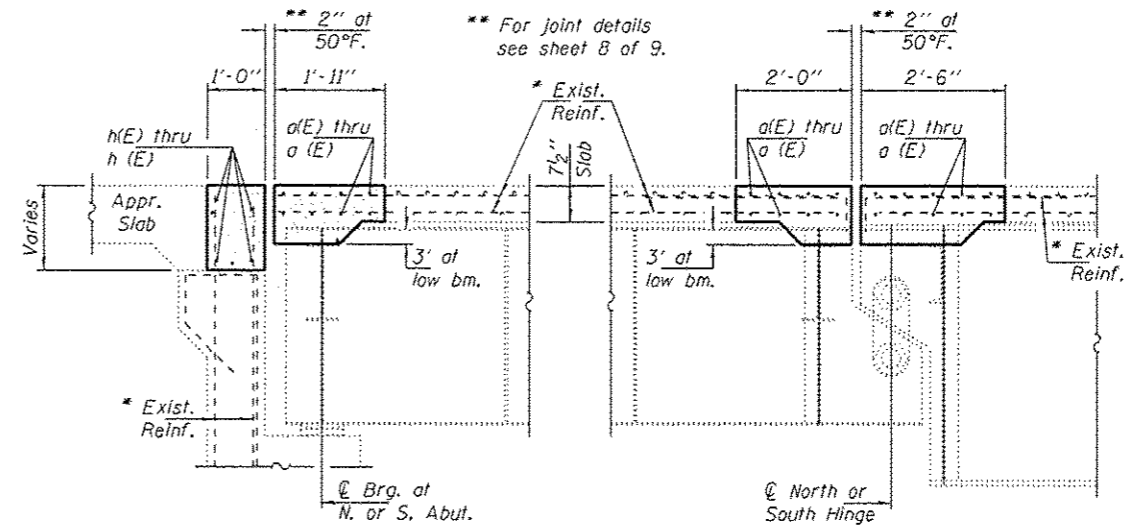
**REPLACEMENT AT SOUTH HINGE**  
SN 037-0031 (South Bound)

**REPLACEMENT AT SOUTH ABUTMENT**  
SN 037-0031 (South Bound)

DESIGNED VHV	DATE JANUARY 26, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH BOUND JOINT REPLACEMENT DETAILS		F.A.I. RTG.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED JGY	REVISED		SN 037-0031 (S.B.)	BO	02 DECK REPAIR 2016-1	HENRY	21	16F	
DRAWN Steffen	REVISED	SHEET NO. 6 OF 9 SHEETS	SOUTH BOUND JOINT REPLACEMENT DETAILS		CONTRACT NO. 64L05				
CHECKED VHV JGY	REVISED		SOUTH BOUND JOINT REPLACEMENT DETAILS		ILLINOIS FED. AID PROJECT				

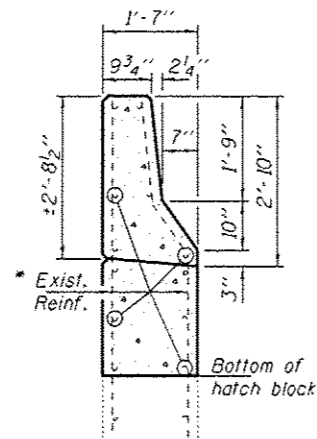


TYPICAL SECTION THRU CONCRETE REMOVAL

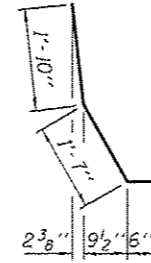


TYPICAL SECTION THRU CONCRETE REPLACEMENT

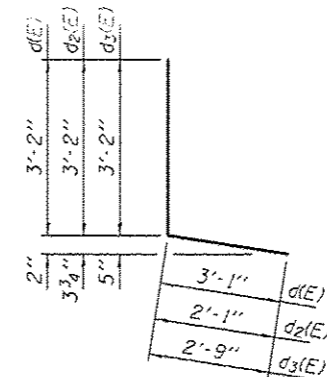
\* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.



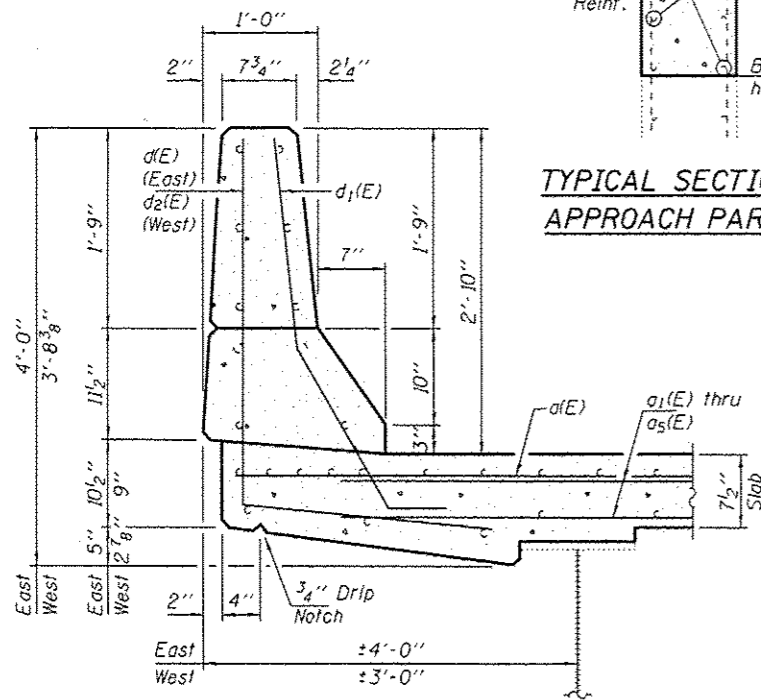
TYPICAL SECTION AT APPROACH PARAPET



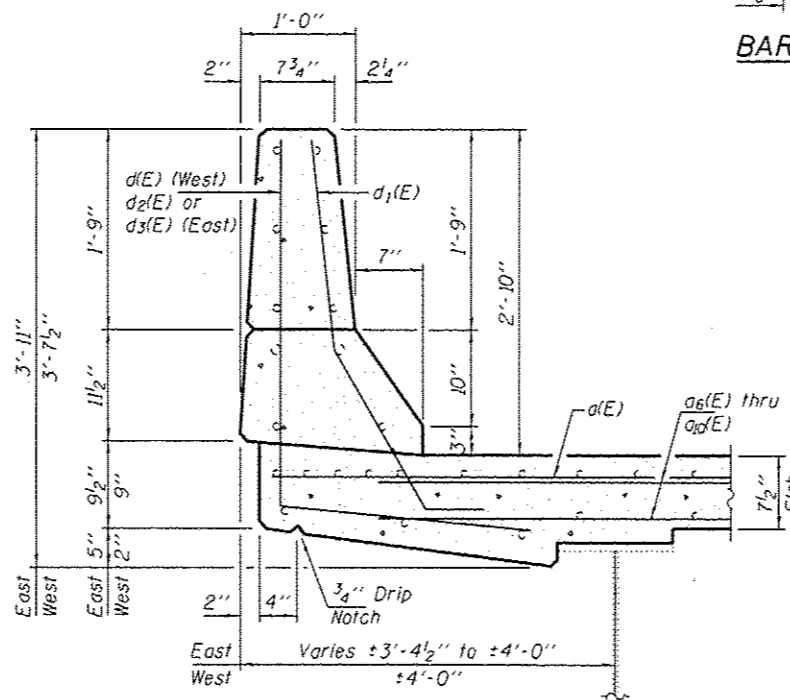
BAR d<sub>1</sub>(E)



BARS d(E), d<sub>2</sub>(E) & d<sub>3</sub>(E)



SECTION THRU NORTH BOUND PARAPET



SECTION THRU SOUTH BOUND PARAPET

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	56	#6	6'-0"	—
a1(E)	8	#5	33'-10"	—
a2(E)	18	#5	34'-4"	—
a3(E)	18	#5	37'-1"	—
a4(E)	8	#5	34'-5"	—
a5(E)	52	#5	16'-8"	—
a6(E)	52	#5	17'-7"	—
a7(E)	8	#5	37'-7"	—
a8(E)	18	#5	37'-3"	—
a9(E)	18	#5	34'-0"	—
a10(E)	8	#5	33'-7"	—
d1(E)	28	#4	6'-3"	L
d2(E)	21	#4	5'-3"	L
d3(E)	7	#4	5'-11"	L
h(E)	4	#6	33'-10"	—
h1(E)	4	#6	34'-5"	—
h2(E)	8	#6	16'-8"	—
h3(E)	8	#6	17'-7"	—
h4(E)	4	#6	37'-7"	—
h5(E)	4	#6	33'-7"	—
Concrete Removal		Cu. Yd.	66.7	
Concrete Superstructure		Cu. Yd.	66.7	
Bar Splicers		Each	120	
Reinforcement Bars, Epoxy Coated		Pound	7930	

DESIGNED VHV  
 CHECKED JGY  
 DRAWN Steffen  
 CHECKED VHV JGY

PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JANUARY 26, 2016  
 REVISED  
 REVISED

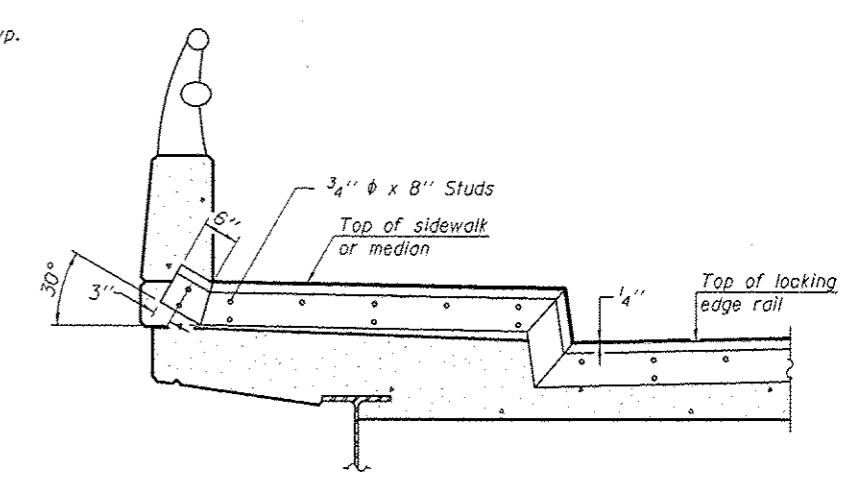
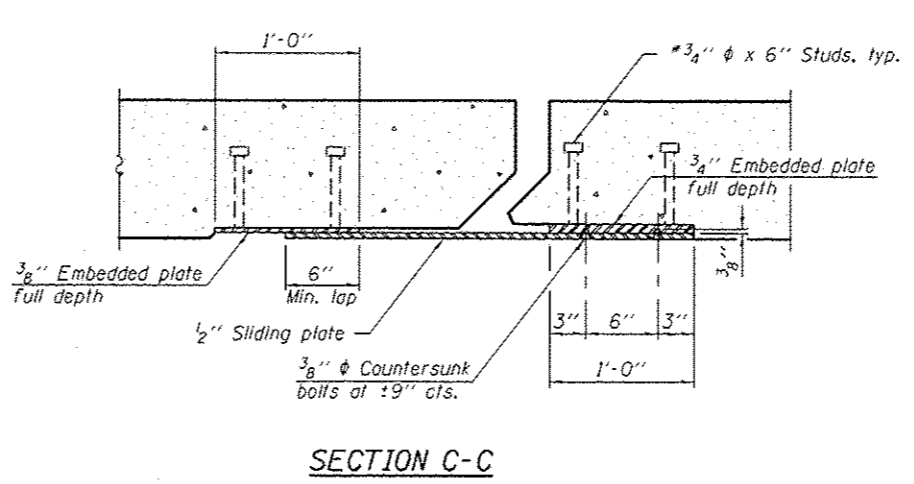
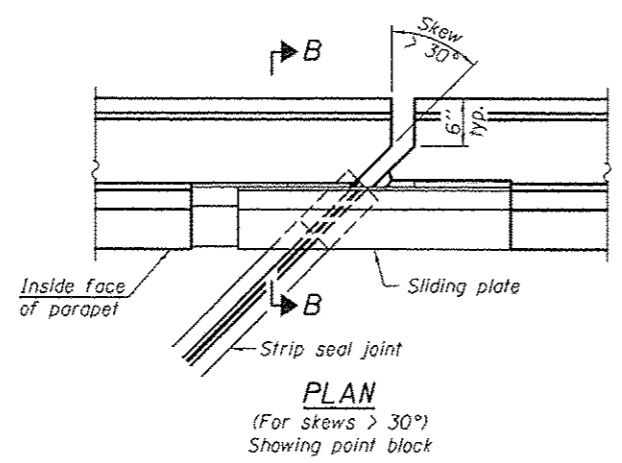
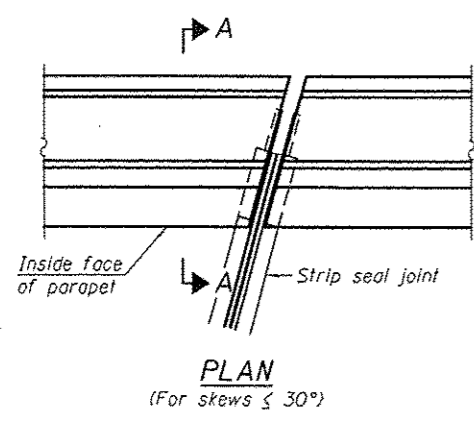
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS  
 SN 037-0031 (S.B.) & 0032 (N.B.)

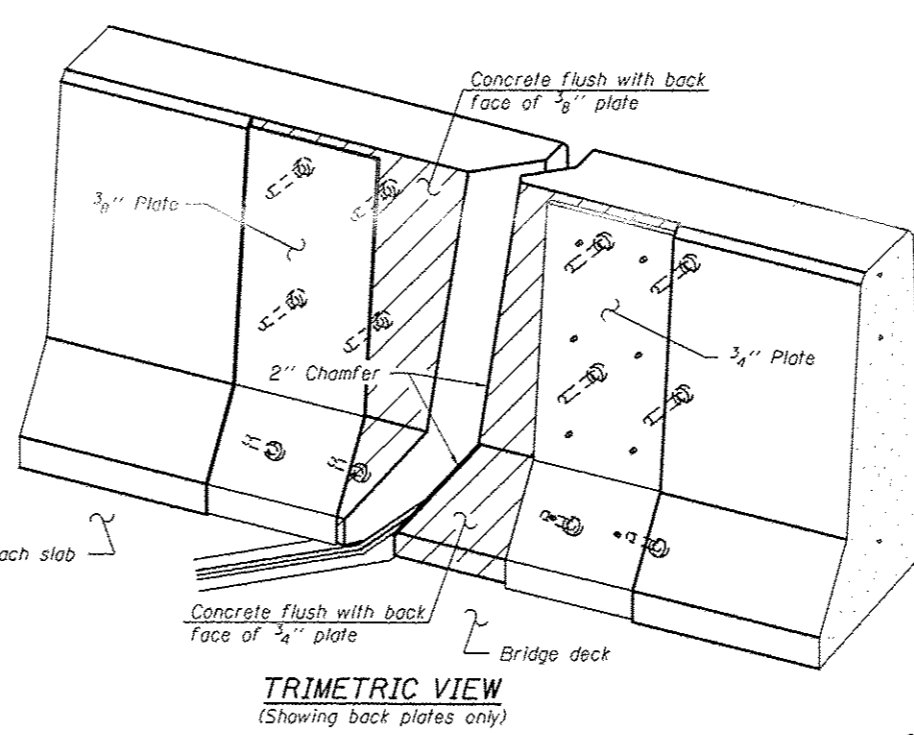
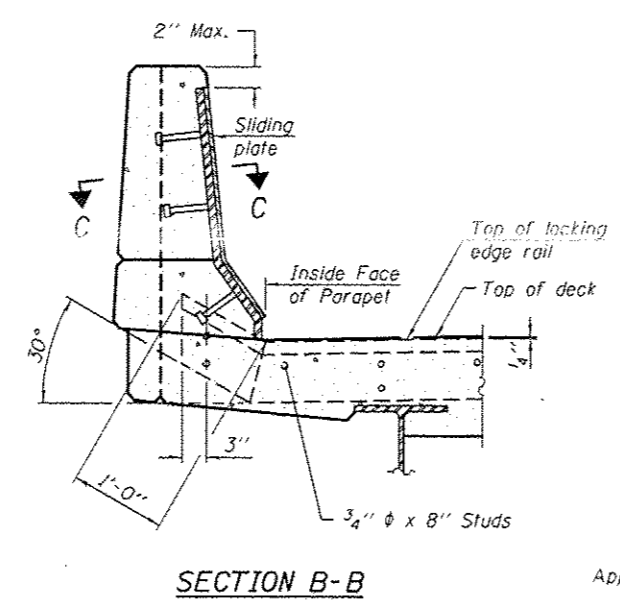
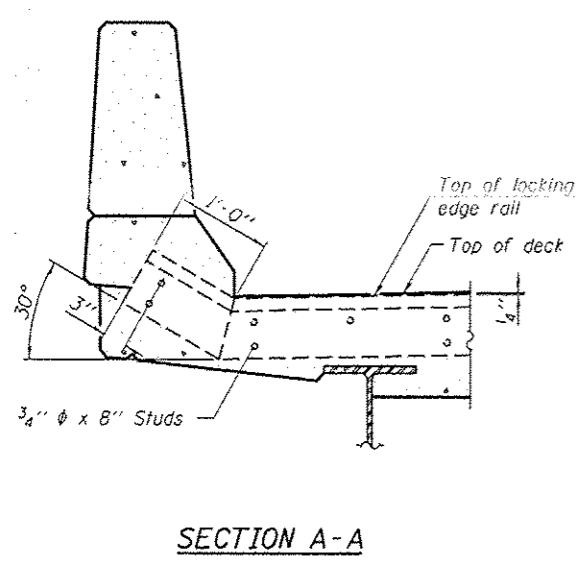
SHEET NO. 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	160
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	

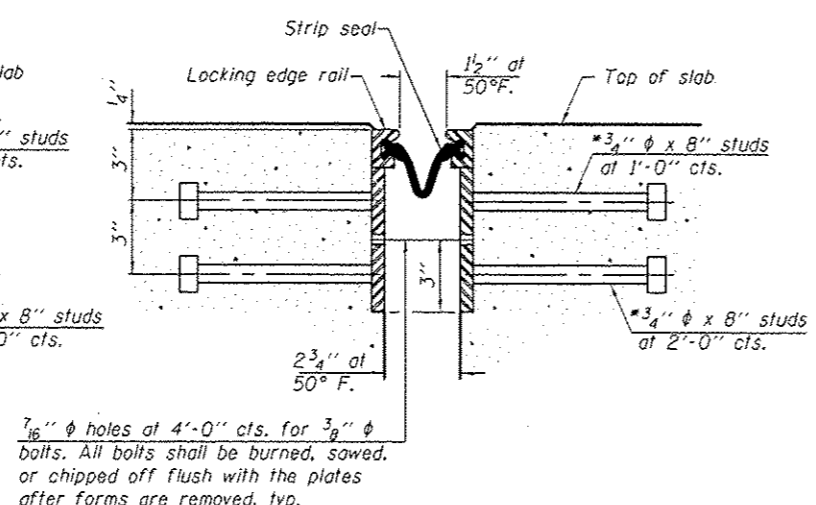
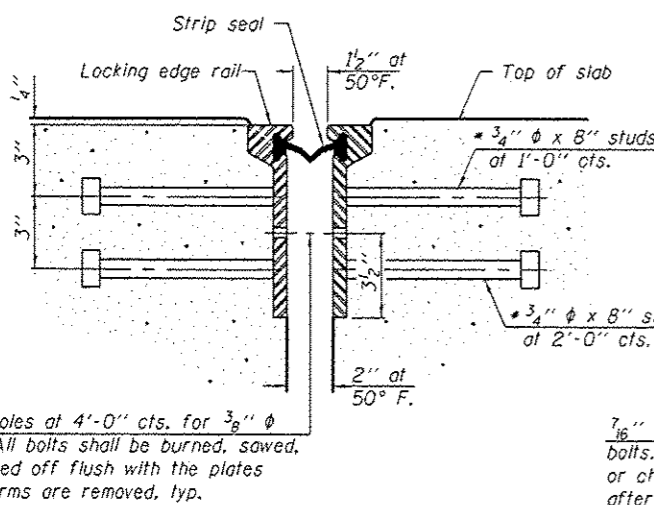




**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**  
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

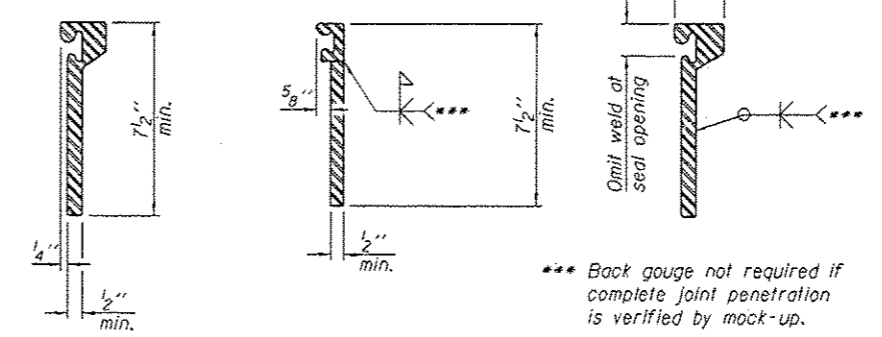


**Notes:**  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.  
The manufacturer's recommended installation methods shall be followed.  
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.  
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.  
Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.



7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



\*\*\* Back gouge not required if complete joint penetration is verified by mock-up.

The inside of the locking edge rail groove shall be free of weld residue.  
Rolled rail shown, welded rail similar.

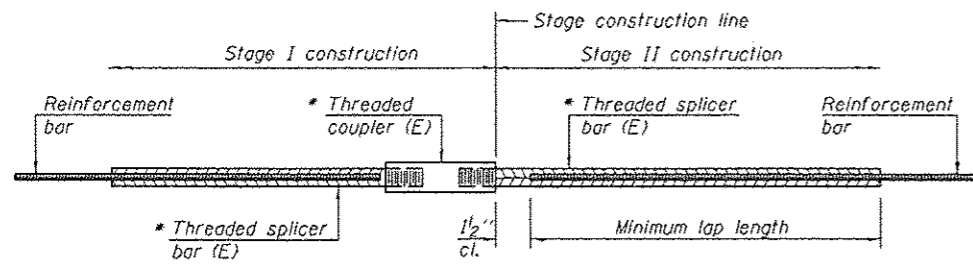
**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	430

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

EJ-SSJ 1-27-12



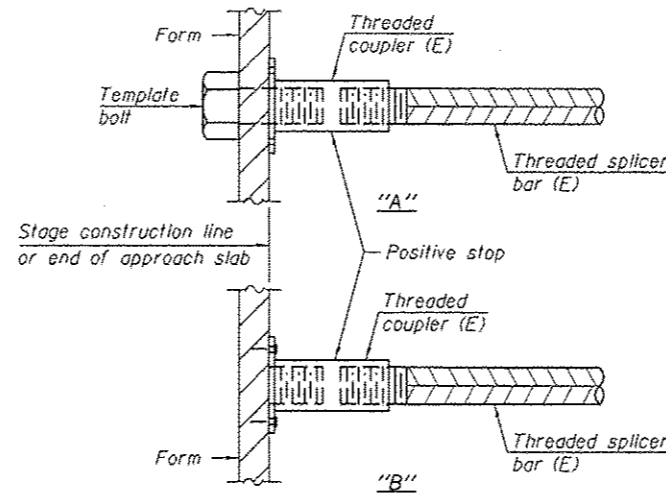


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Abutment	#6	16	4'-0"
Deck	#5	104	3'-6"

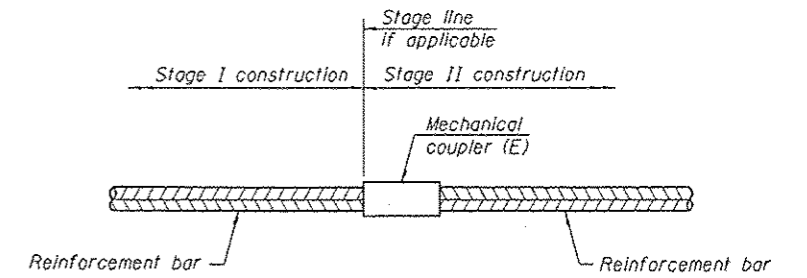


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

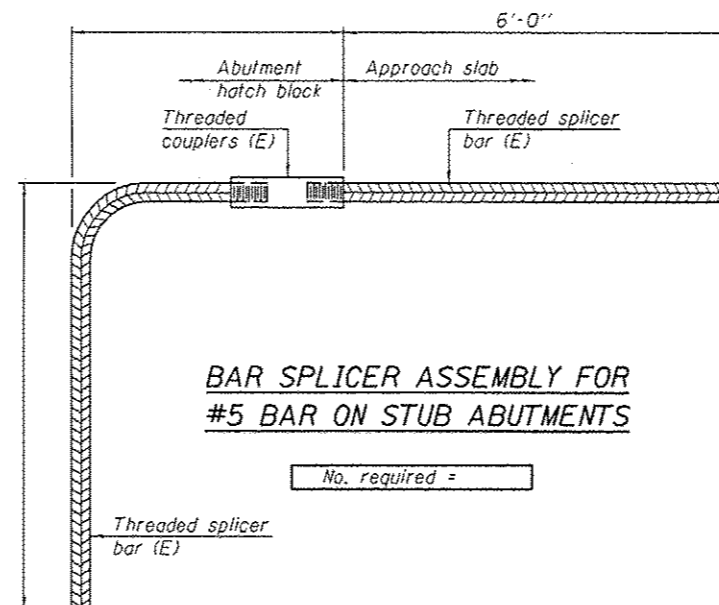
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 6-8-15

DESIGNED VHV  
 CHECKED JGY  
 DRAWN Steffen  
 CHECKED VHV JGY

PASSED

*Carl Perry*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JANUARY 26, 2015

REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 SN 037-0031 (S.B.) & 0032 (N.B.)

SHEET NO. 9 OF 9 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 DECK REPAIR 2016-1	HENRY	21	161
CONTRACT NO. 64L05			ILLINOIS FED. AID PROJECT	

CROSSED PILES  
15 TON CAPACITY (TYP.)  
BY BRIDGE CONTRACTOR  
(CAP BY OTHERS)  
LENGTH 25'-0" TYP.

PILE CUT OFF ELEVATION  
N.B. LANES 711.92  
S.B. LANES 711.60

CONCRETE PILES  
(TYP. FOR ABUTS.)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	37-2HF	HENRY	30	5
FED. ROAD DIST. NO.	ILLINOIS	PER. AND PROJECT		

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

LOCATION PLAN  
SCALE: AS NOTED

HORIZONTAL CURVE DATA  
SURVEY NORTH-SOUTH ROAD

D = 0'-30" (CHORD DE)	P.C. 576+06.12
Δ = 20°-24'-40"	P.T. 596+90.34
R = 114.58.19	
T = 2062.98	
L = 4082.22	
E = 184.22	

DIAGRAMMATIC LAYOUT  
NOT TO SCALE

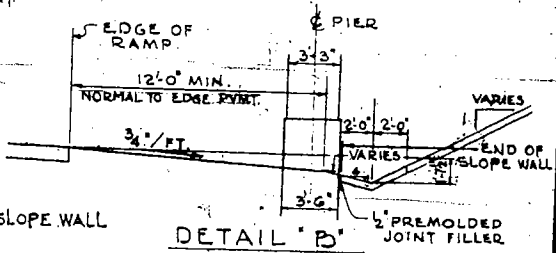
⊙ DENOTES BORING HOLE

RDWY. & SEPARATION JOINT

FILL WITH PAF-4

RUBBER WATER STOP

SEPARATION JOINT  
DETAIL 'X'  
SCALE: 3/4" = 1'-0"



DETAIL 'B'  
SCALE: 3/8" = 1'-0"

GENERAL PLAN AND ELEVATION  
F.A.I. 80 SECTION 37-2HB-2HF  
INTERCHANGE STRUCTURES

HENRY COUNTY  
STATION 571+21.72

SECTION 'E-E'  
SCALE: 3/4" = 1'-0"

BILL OF MATERIAL \*

ITEM	UNIT	QUANT.
EARTH EXCAVATION	CU YD	44.661
CLASS X CONCRETE HEADWALLS	CU YD	14.8
PIPE CULVERT TYPE 2A, 36"	LINE FT	422
REINFORCEMENT BARS	POUNDS	400
FURNISHING CROSSED PILES 20.1 TO 38 FEET	LINE FT	950
DRIVING TIMBER PILES	LINE FT	950
SLOPE WALL 2 INCH	CU YD	12.85

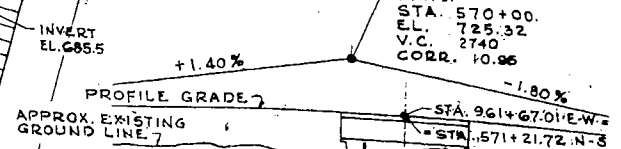
FOR INFORMATION ONLY

DE LEUW, CATHAR & CO. ENGINEERS  
DESIGNED BY H. KIMBALL  
DRAWN BY R.E. BARNETT  
CHECKED D.H. WENEBACHER  
IN CHARGE E.S. MARTINS  
APPROVED L.N. RIAM

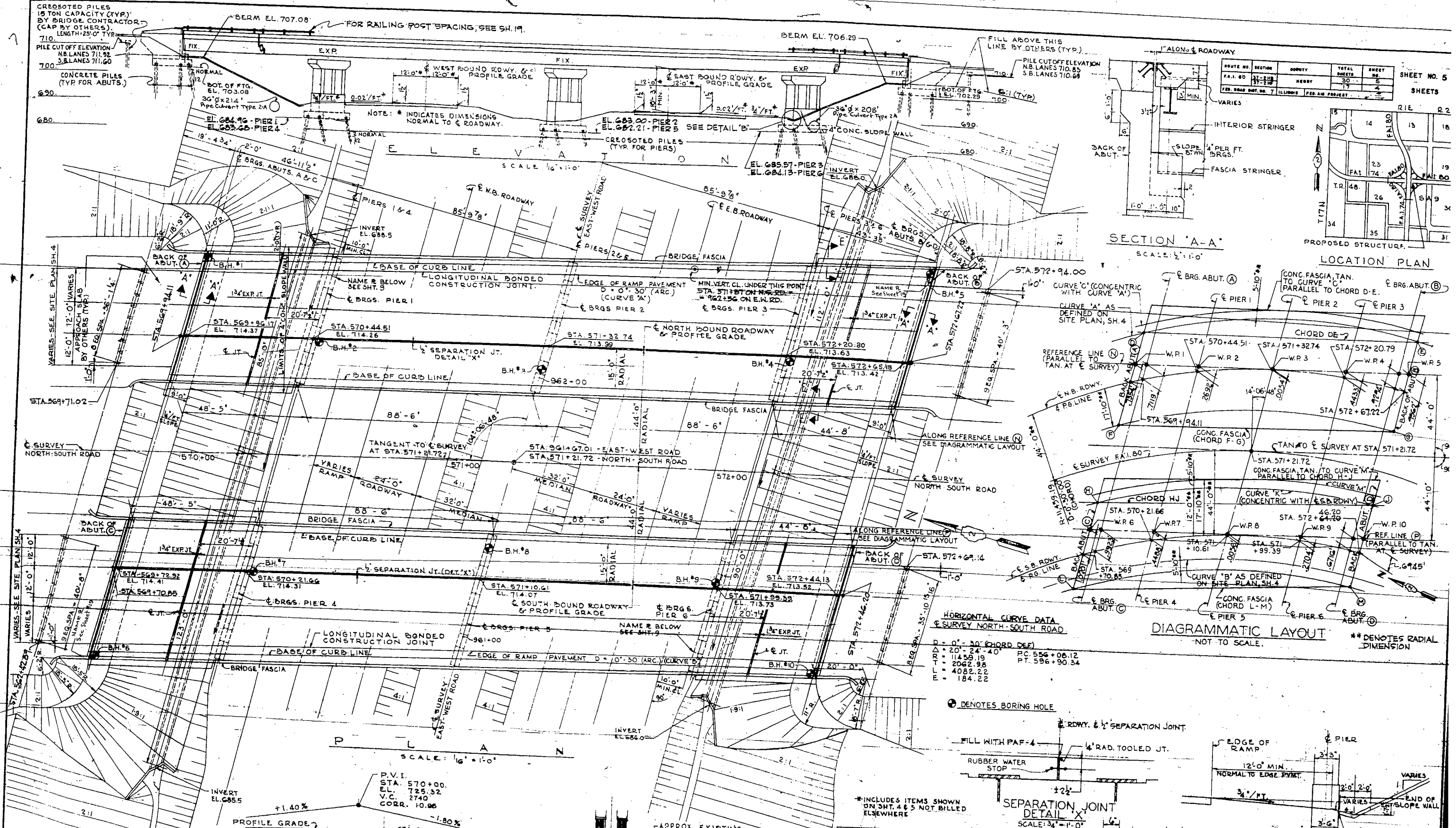
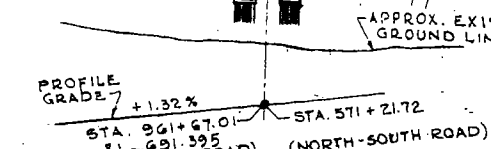
JOB NO. 859

REVISED 8-25-61 STATION ON DIAGRAMMATIC LAYOUT J.A.C.

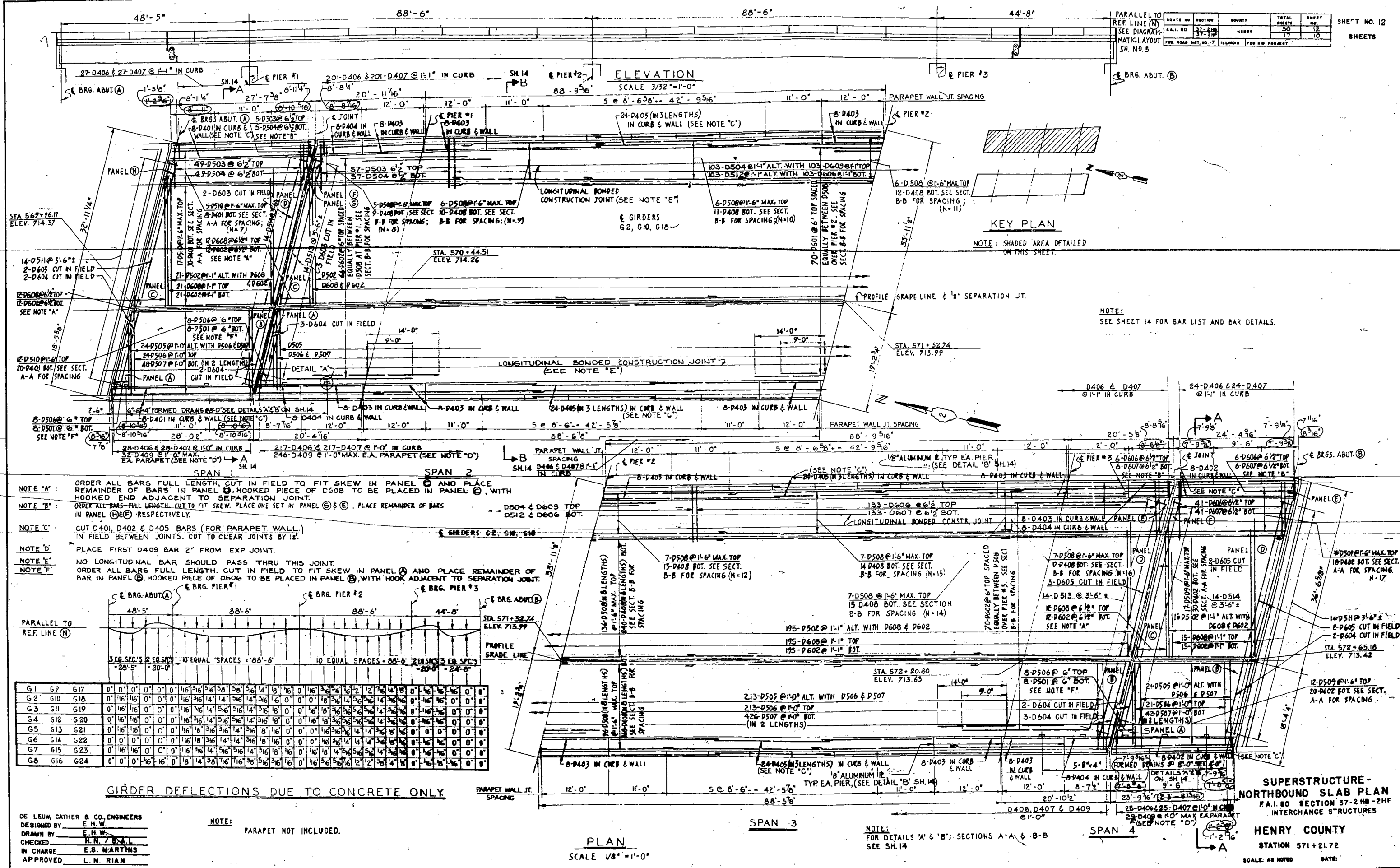
PROFILE GRADE - N.-S. RD.



PROFILE GRADE - E.-W. RD.

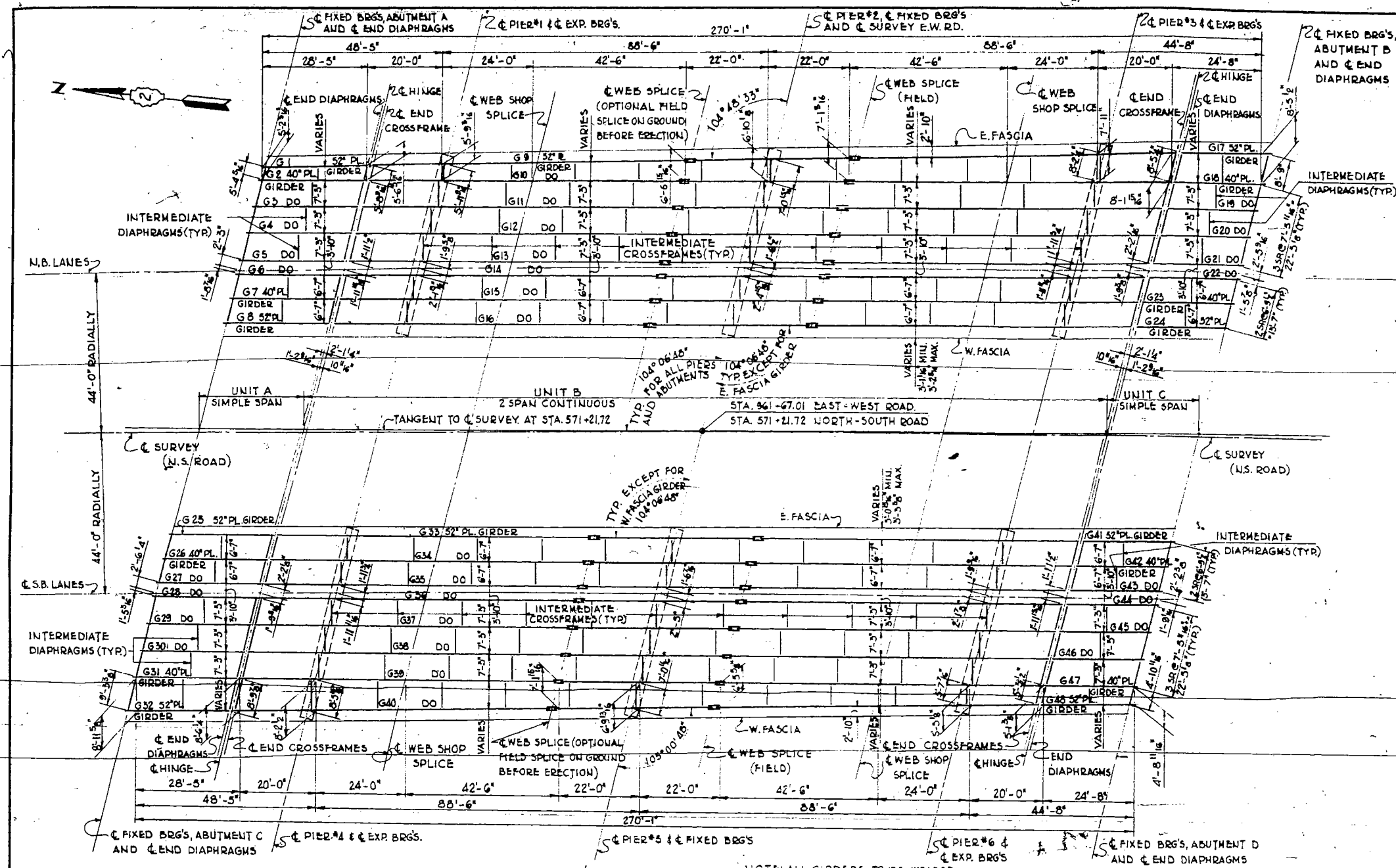


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
37-218	37-218	HENRY	30	12
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	17	10







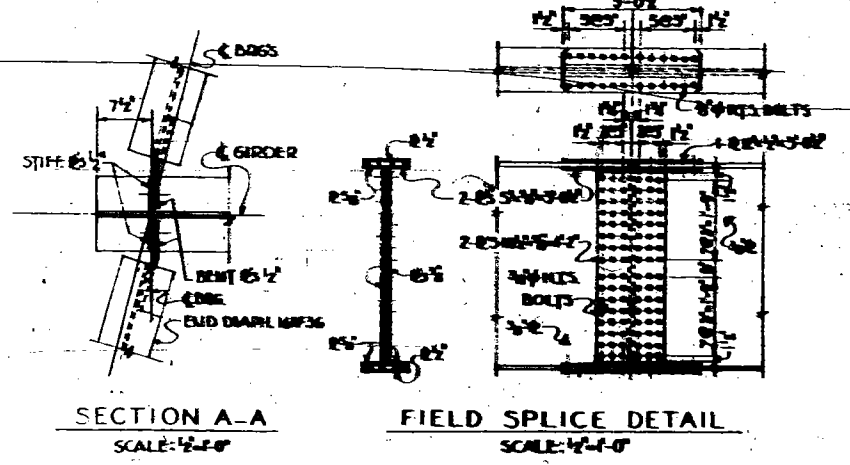
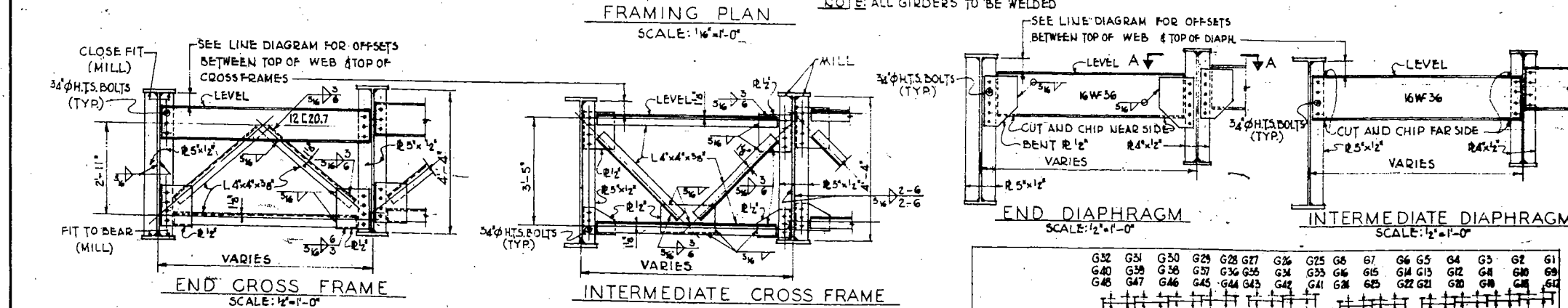


**ELEVATIONS AT TOP OF STEEL**

ABUT. BRG'S	HINGE	PIER BRG'S	FIELD SPICE	PIER BRG'S	HINGE	ABUT. BRG'S	
A	B	C	D	E	F	G	
G1, G9, G17	25'-6"	28'-0"	25'-9"	22'-0"	66'-0"	28'-0"	28'-0"
ALL OTHERS	25'-5"	20'-0"	25'-6"	22'-0"	66'-0"	28'-0"	28'-0"
G32, G40, G48	25'-6"	20'-0"	25'-10"	22'-0"	66'-9"	28'-0"	28'-9"

GIRDERS	A	B	C	D	E	F	G	H
G1, G9, G17	713.887	713.888	713.829	713.723	713.816	713.332	713.298	713.888
G2, G10, G18	713.932	713.826	713.809	713.822	713.822	713.254	713.804	713.870
G3, G11, G19	713.865	713.879	713.817	713.524	713.822	713.822	713.808	713.808
G4, G12, G20	713.786	713.811	713.758	713.782	713.782	713.122	713.822	713.822
G5, G13, G21	713.727	713.782	713.682	713.722	713.722	713.052	713.872	713.778
G6, G14, G22	713.880	713.887	713.836	713.387	713.387	713.813	713.822	713.778
G7, G15, G23	713.888	713.836	713.874	713.387	713.387	713.822	713.822	713.822
G8, G16, G24	713.971	713.885	713.823	713.287	713.287	713.822	713.822	713.822
G25, G26, G27	713.802	713.819	713.802	713.822	713.822	713.288	713.822	713.822
G28, G29, G30	713.889	713.897	713.787	713.528	713.528	713.822	713.822	713.822
G31, G32, G33	713.772	713.785	713.738	713.788	713.788	713.151	713.822	713.822
G34, G35, G36	713.735	713.748	712.882	713.473	713.473	713.822	713.822	713.822
G37, G38, G39	713.698	713.688	713.638	713.388	713.388	713.822	713.822	713.822
G40, G41, G42	713.589	713.579	713.522	713.284	713.284	713.822	713.822	713.822
G43, G44, G45	713.817	713.800	713.382	712.182	713.822	713.822	713.822	713.822
G46, G47, G48	713.287	713.282	713.232	713.032	712.932	712.678	712.692	712.932

NOTE: ELEVATIONS AT POINTS A, C, D, F AND H ARE FINAL TOP OF STEEL ELEVATIONS AND ARE TO BE HELD. ELEVATIONS AT POINTS B, E AND G ARE THEORETICAL TOP OF STEEL ELEVATIONS, ASSUMING THE TOP OF WEB IS A STRAIGHT LINE FROM POINT D TO POINT E THEN POINTS C AND D, AND FROM POINT E TO POINT G THEN POINT F. ELEVATIONS AT POINTS A AND H AND POINTS C, D AND F ARE THE ELEVATIONS AT TOP OF STEEL AT ABUTMENT BEARING (S AND PIER (S) BASED ON TOP OF SLAB BEING 8" ABOVE TOP OF WEB AT THESE POINTS AT POINT E TOP OF STEEL IS TOP OF SPICE COVER (S).



**BILL OF MATERIAL - 2 BRIDGES**

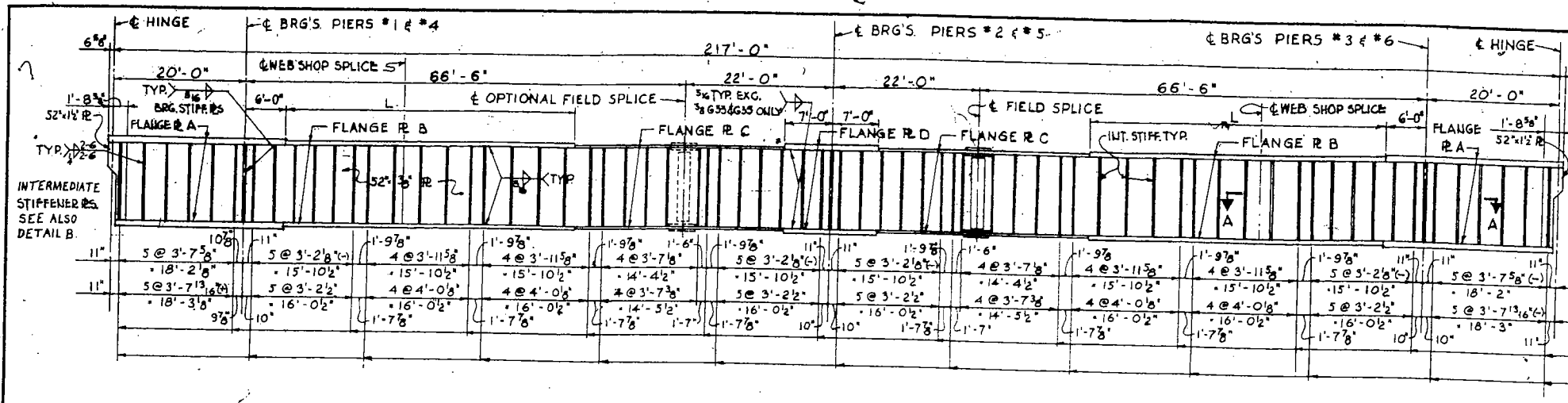
ITEM	UNIT	QUANTITY
FURNISHING STRUCTURAL STEEL	POUND	777,000
ERECTING STRUCTURAL STEEL	POUND	777,000

DE LEUW, CATHER & CO., ENGINEERS  
DESIGNED BY R.C.F.  
DRAWN BY A.L.  
CHECKED S.H.S./R.A.L.  
IN CHARGE E.S. MARTINE  
APPROVED L.N. RIAN

**LINE DIAGRAM**  
OFFSETS BETWEEN TOP OF WEB & TOP OF DIAPHRAGMS FOR CROSSFRAMES

	G32	G31	G30	G29	G28	G27	G26	G25	G6	G7	G6	G5	G4	G3	G2	G1
ALONG C.B.RG'S N.ABUT.	3' 5 1/4"	3' 4 1/4"	3' 4 1/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"
ALONG C.W. HINGE	3' 5"	3' 4 1/4"	3' 4 1/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"
INTERMEDIATE DIAPH.	VAR.	3' 4 1/4"	3' 4 1/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"
CROSS FRAMES	VAR.	3' 4 1/4"	3' 4 1/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"
ALONG C.S. HINGE	3' 4 1/4"	3' 4 1/4"	3' 4 1/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"
ALONG C.B.RG'S S.ABUT.	3' 4 1/4"	3' 4 1/4"	3' 4 1/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"	3' 3 3/4"

**SUPERSTRUCTURE-FRAMING PLAN AND DETAILS**  
F.A.L.80 SECTION 37-288-28F  
INTERMEDIATE STRUCTURES  
**HENRY COUNTY**  
STATION 571+21.72

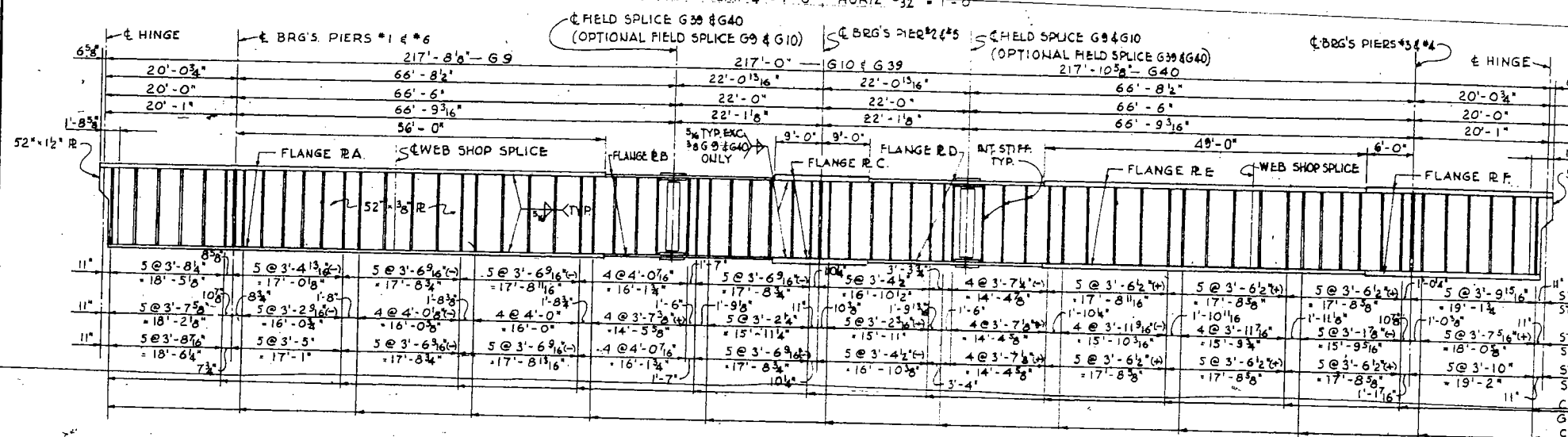


GIRDERS	THICKNESS OF PLATES						L
	RA	RB	RC	RD	RE	RF	
G11 G12 G37 G38 G13	1 1/4"	1 1/8"	1"	1 3/8"	-	-	43'-0"
G14 G36	1 1/8"	1 1/4"	1"	1 1/2"	-	-	47'-0"
G15 G34	1 1/8"	1"	7/8"	1 3/8"	-	-	45'-0"
G16 G33	1 1/4"	1 1/8"	7/8"	1 3/8"	-	-	48'-0"
G35	1 1/4"	1 1/8"	7/8"	1 3/8"	-	-	47'-0"

STIFFENER SPACING  
 G11 G12 G13 G36 G37 G38  
 STIFFENER SPACING  
 G14 G15 G16 G33 G34 G35  
 CROSS FRAME NEAR SIDE: G11 G12  
 G14 G15 G33 G34 G36 G37 G38  
 CROSS FRAME FAR SIDE: G11 G12  
 G13 G15 G16 G34 G35 G37 G38

ELEVATION OF GIRDERS G11 THRU G16 AND G33 THRU G38 - LOOKING EAST

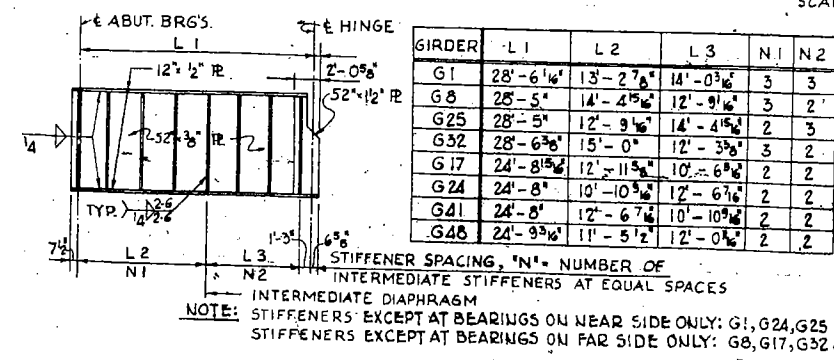
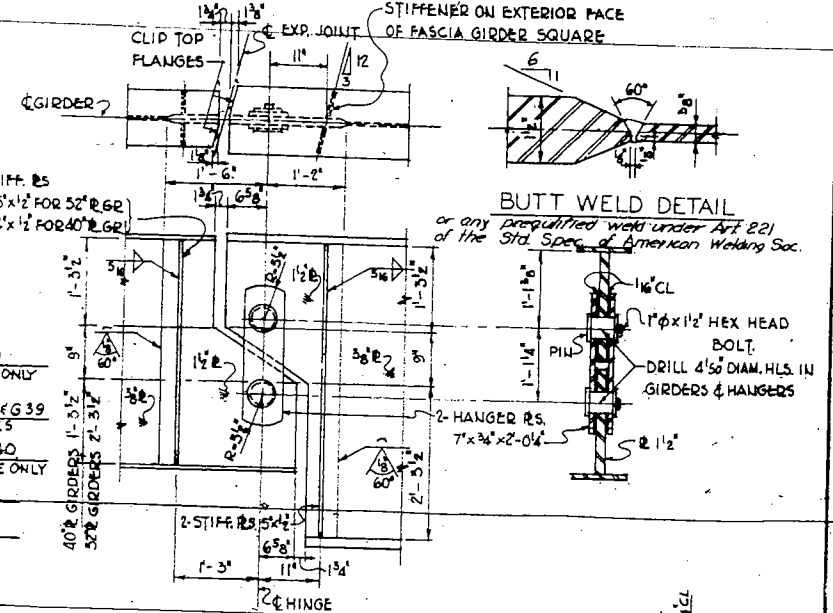
NOTE:  
 G16: STIFFENERS EXCEPT AT BEARINGS ON FAR SIDE ONLY  
 G33: STIFFENERS EXCEPT AT BEARINGS ON NEAR SIDE ONLY  
 ALL OTHERS: STIFFENERS ON BOTH SIDES.



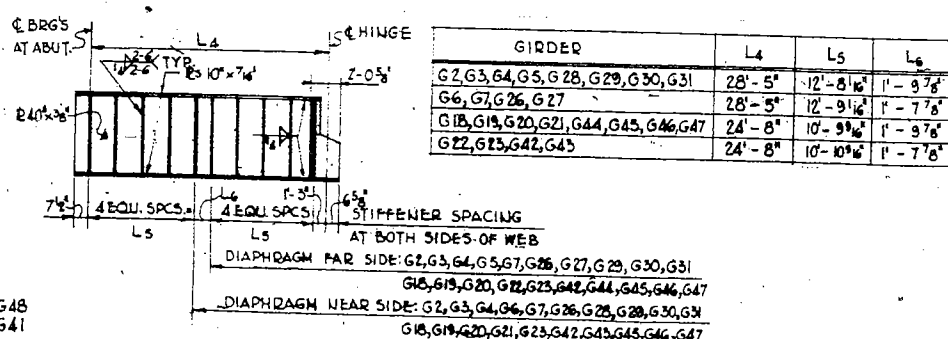
ELEVATION OF GIRDERS G9 AND G10 LOOKING EAST AND GIRDERS G39 AND G40 LOOKING WEST

STIFFENER SPACING: G9  
 STIFFENERS ON NEAR SIDE ONLY  
 STIFFENER SPACING: G10 G39  
 STIFFENERS ON BOTH SIDES  
 STIFFENER SPACING: G40  
 STIFFENERS ON NEAR SIDE ONLY  
 CROSS FRAME NEAR SIDE: G9 G10 G39 G40  
 CROSS FRAME FAR SIDE: G10 G39

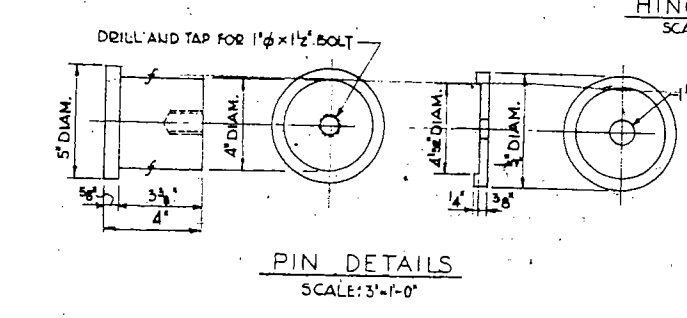
NOTE: FOR SPICE DETAIL SEE SHEET NO. 15



NOTE: STIFFENERS EXCEPT AT BEARINGS ON NEAR SIDE ONLY: G1, G24, G25 & G48  
 STIFFENERS EXCEPT AT BEARINGS ON FAR SIDE ONLY: G8, G17, G32 & G41



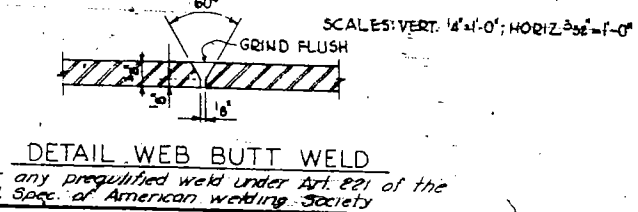
ELEVATION OF GIRDERS G2 THRU G7 & G26 THRU G31 LOOKING EAST AND GIRDERS G18 THRU G23 & G42 THRU G47 LOOKING WEST



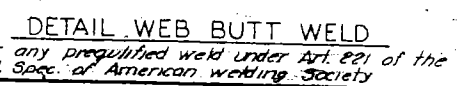
PIN DETAILS SCALE: 3"=1'-0"

DETAIL 'B' SCALE: 1/2"=1'-0"

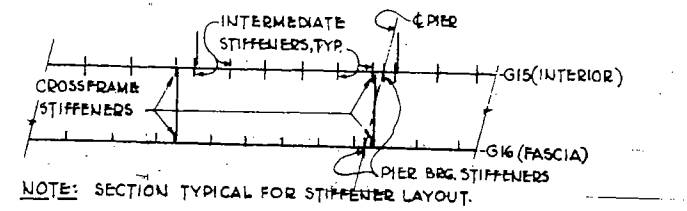
ELEVATION OF GIRDERS G1, G8, G25, G32 LOOKING EAST AND GIRDERS G17, G24, G41, G48 LOOKING WEST. SCALES: VERT. 1/4"=1'-0"; HORIZ. 3/32"=1'-0"



DETAIL FLANGE BUTT WELD AT TRANSITION OF THICKNESS



DETAIL WEB BUTT WELD or any prequalified weld under Art. 221 of the Std. Spec. of American Welding Society



SECTION A-A SCALE: 1/8"=1'-0"

**SUPERSTRUCTURE**  
**GIRDER ELEVATIONS**  
 FAI. 80 SECTION 37-2HB-2HF  
 INTERCHANGE STRUCTURES  
 HENRY COUNTY  
 STATION 571+21.72  
 SCALE: AS NOTED DATE:

DE LEUW, CATHAR & CO., ENGINEERS  
 DESIGNED BY R.C.F.  
 DRAWN BY H.M.  
 CHECKED BY S.H.S./B.A.L.  
 IN CHARGE E.S. MARTINS  
 APPROVED L.N. RIAN

JOB NO. 859

**FOR INFORMATION ONLY**