

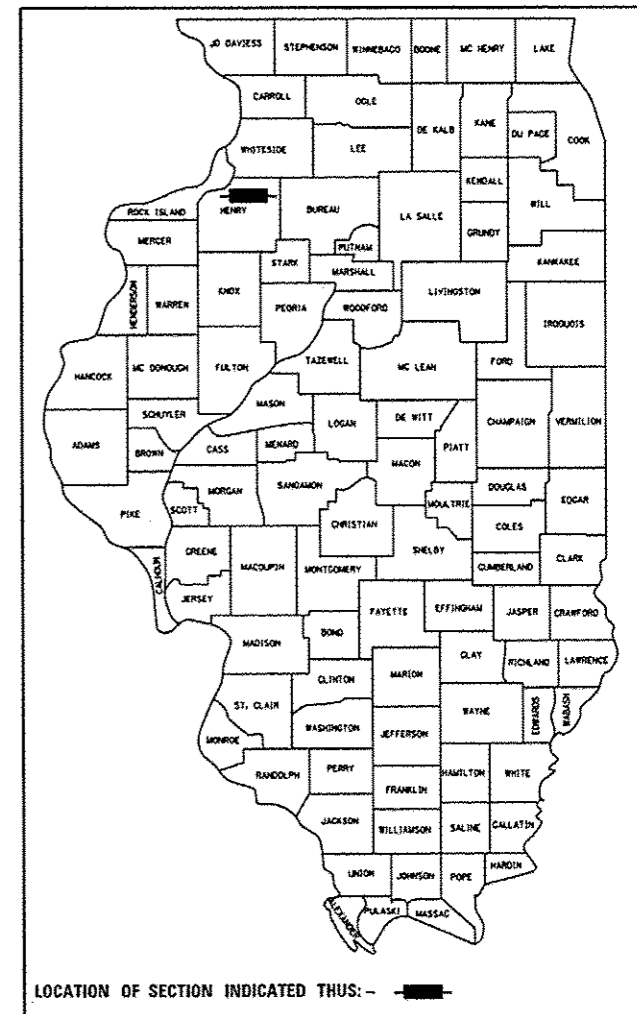
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 74/280 (I-74/280)  
SECTION (37-1HBR)M  
TYPE OF IMPROVEMENT: BRIDGE REPAIR  
SN 037-0003 & SN 037-0004 OVER US 6 & BNRR  
HENRY COUNTY

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

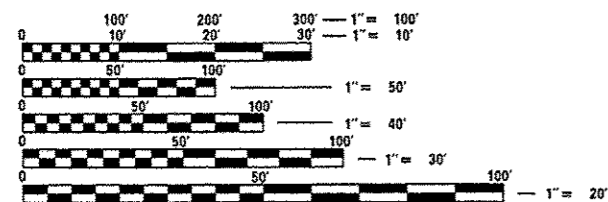
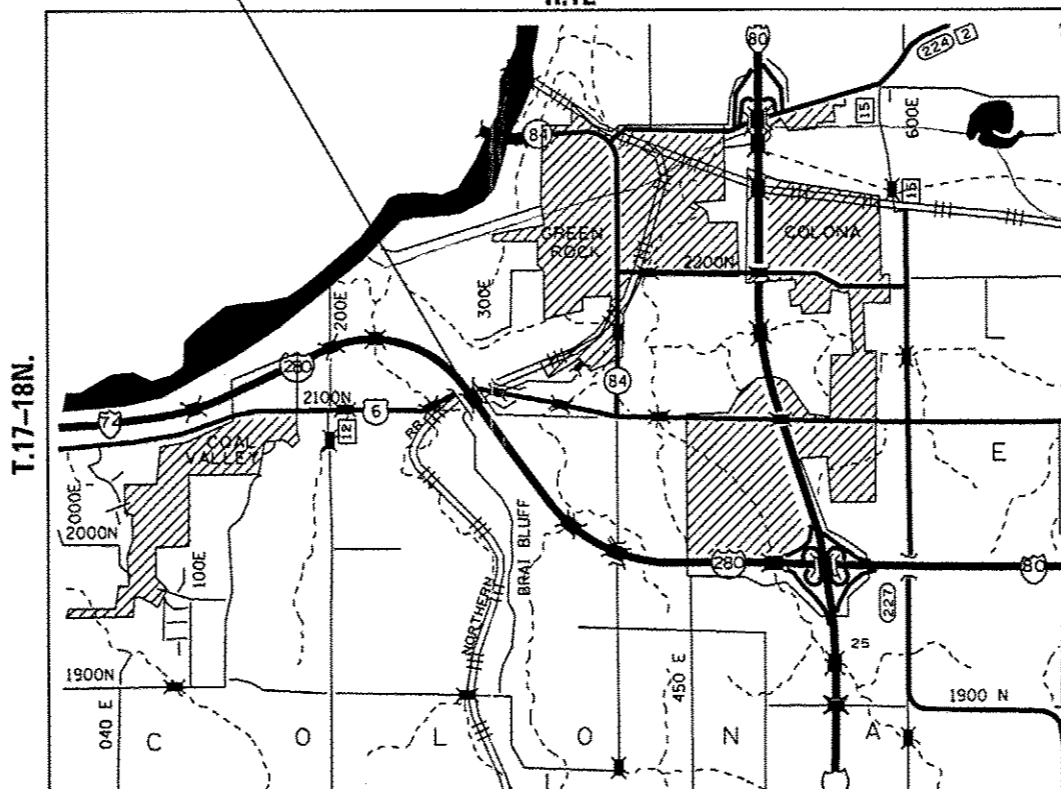
D-92-055-09



SN 037-0003 &  
SN 037-0004

C-92-091-09  
R.1E

COLONA TOWNSHIP, SECTION 16



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. 64E94

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED Jan. 24<sup>th</sup> 20 14  
Paul C. [Signature]  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
March 21 20 14  
John D. Baramzelli, P.E., B.S.  
ENGINEER OF DESIGN AND ENVIRONMENT  
March 21 20 14  
Omer Osman, P.E., B.S.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**



# SUMMARY OF QUANTITIES

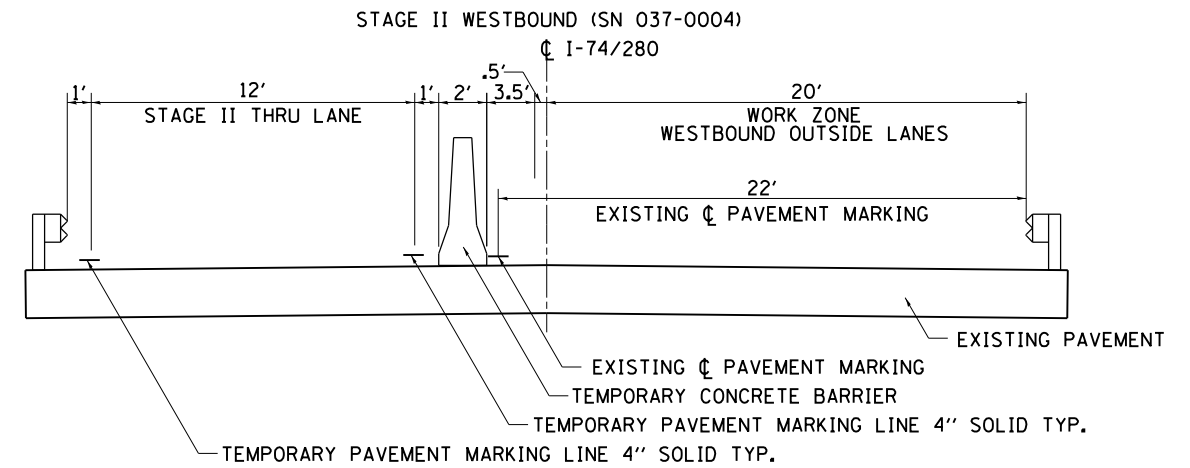
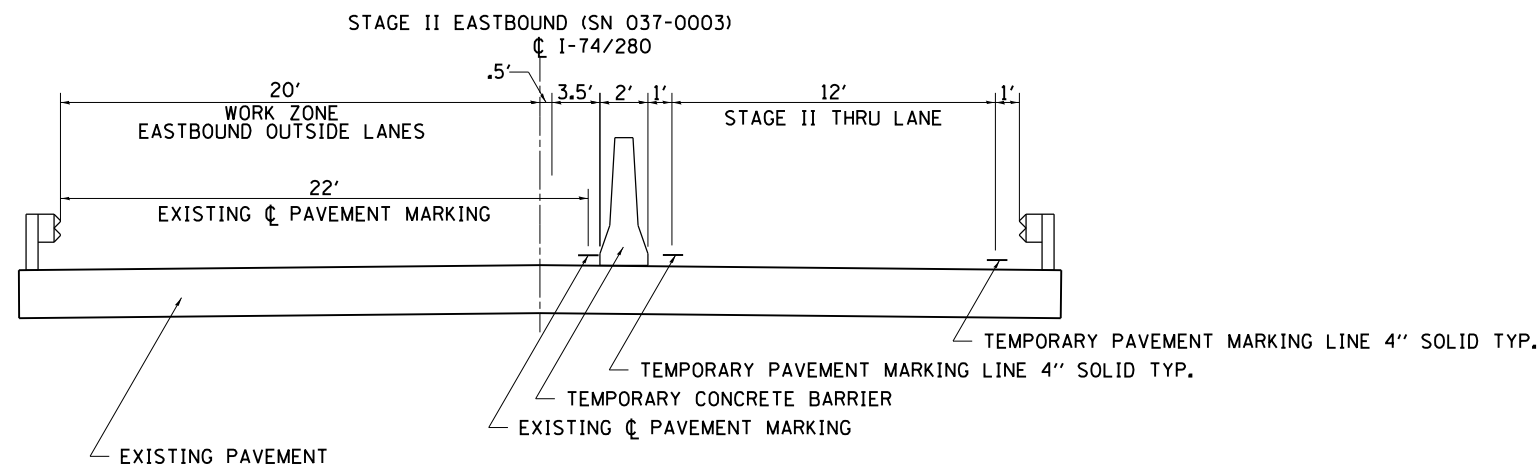
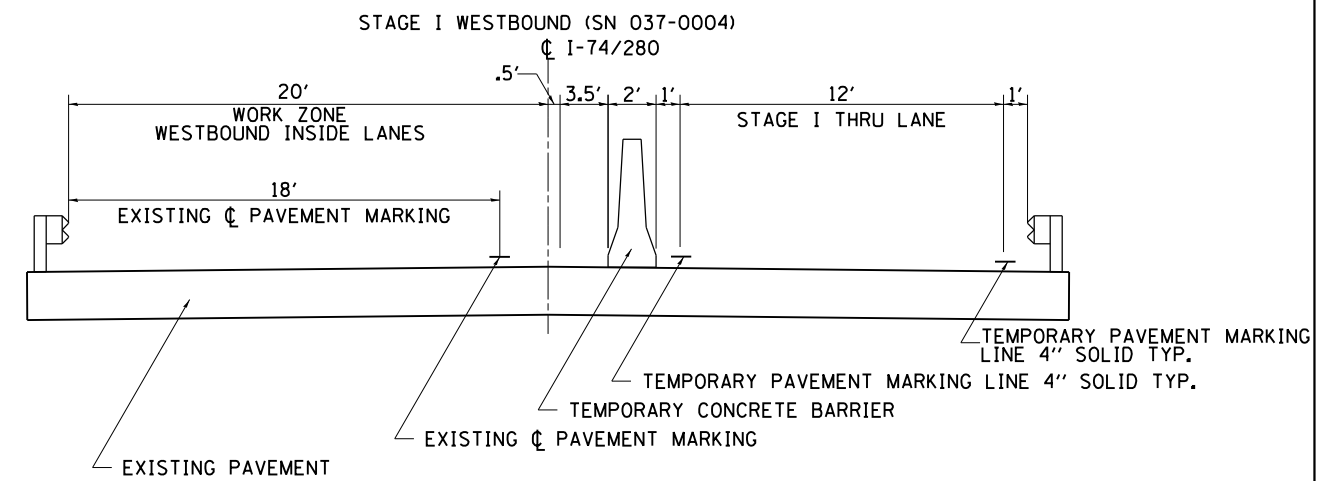
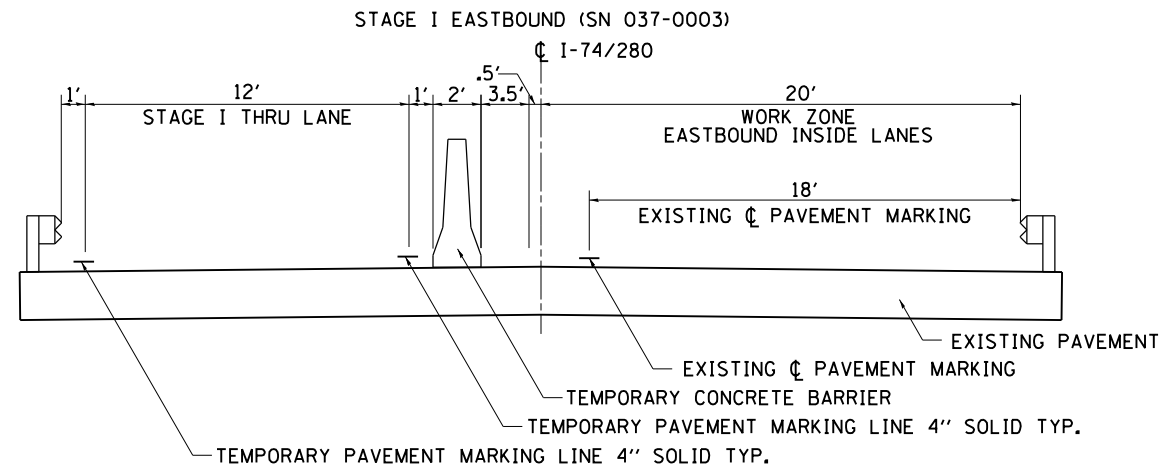
URBAN  
0014  
100%  
State Funds

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
42001300	PROTECTIVE COAT	SQ YD	157.4
50102400	CONCRETE REMOVAL	CU YD	61.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	61.6
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,640
50800515	BAR SPLICERS	EACH	112
52000110	PREFORMED JOINT STRIP SEAL	FOOT	366
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	17,600
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5,866
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,952
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,774
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,850
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1,470
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	60
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	2
<del>Z0091200</del>	<del>JACKING AND CRIBBING</del>	<del>EACH</del>	<del>2</del>

FILE NAME :	USER NAME : dmsdd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Oss\Henry\64E94 Repairs SH 037-0303 and SH 037-0004\CADD\0205509-shr-cover.d	DRAWN - _____	REVISED - _____	74/280			137HBRM	HENRY	27	3	
Default	PLOT SCALE : 100.0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64E94				
	PLOT DATE : Thu Jan 23 13:09:43 2014	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT				

Rev .

# STAGING TYPICALS FOR SN 037-0003 & 037-0004



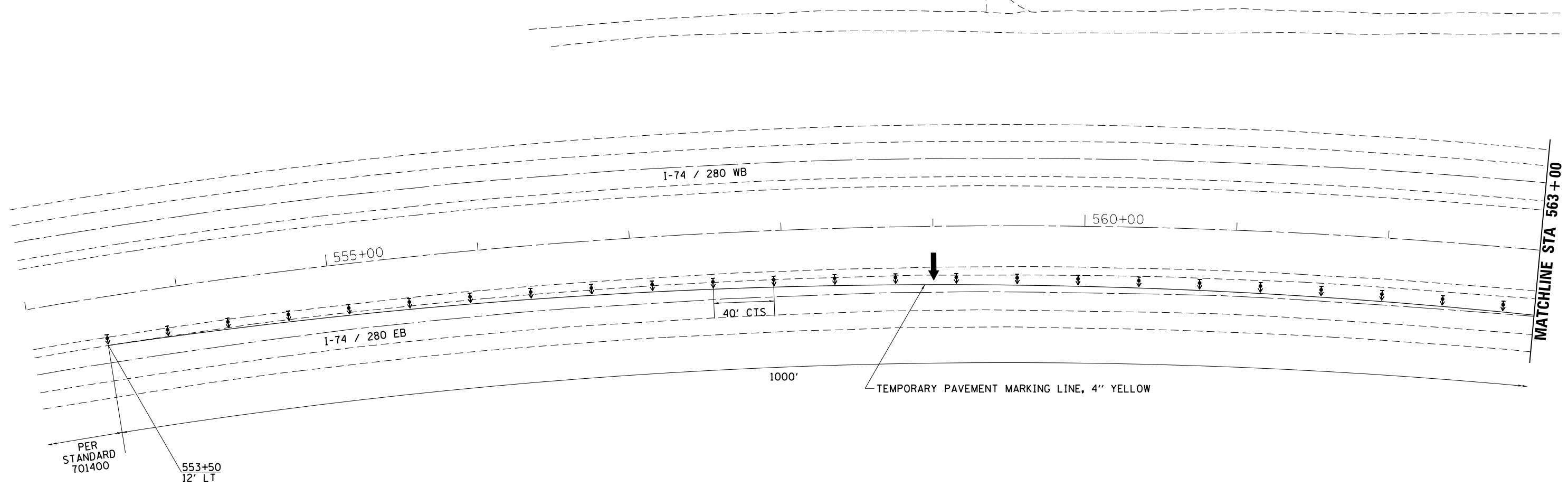
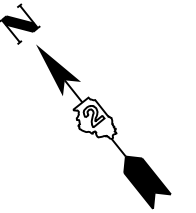
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STAGING TYPICALS FOR SN 037-0003 &amp; 037-0004</b>	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37-IHBRIM)	HENRY	27	4
CONTRACT NO. 64E94			ILLINOIS FED. AID PROJECT	

# TRAFFIC CONTROL PLAN – STAGE I FOR SN 037-0003 & 037-0004



70400100 TEMPORARY CONCRETE BARRIER

STAGE I                    1,952 FT

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STAGE II                    1,774 FT

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STAGE I                    2 EACH

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

STAGE II                    2 EACH

70300220 TEMPORARY PAVEMENT MARKING LINE 4"

STAGE I                    9,550 FT  
STAGE II                    8,050 FT

TOTAL 17,600 FT

70301000 WORKZONE PAVEMENT MARKING REMOVAL

STAGE I                    3,183 SQ FT  
STAGE II                    2,683 SQ FT

TOTAL 5,866 SQ FT

78300100 PAVEMENT MARKING REMOVAL

STAGE I                    1,092 SQ FT  
STAGE II                    758 SQ FT

TOTAL 1,850 SQ FT

### SYMBOLS

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

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- ③ Offsets shown are from the centerline pavement marking of the direction of travel.
- ④ Barrier wall offsets are to the construction side of the barrier wall.
- ⑤ Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
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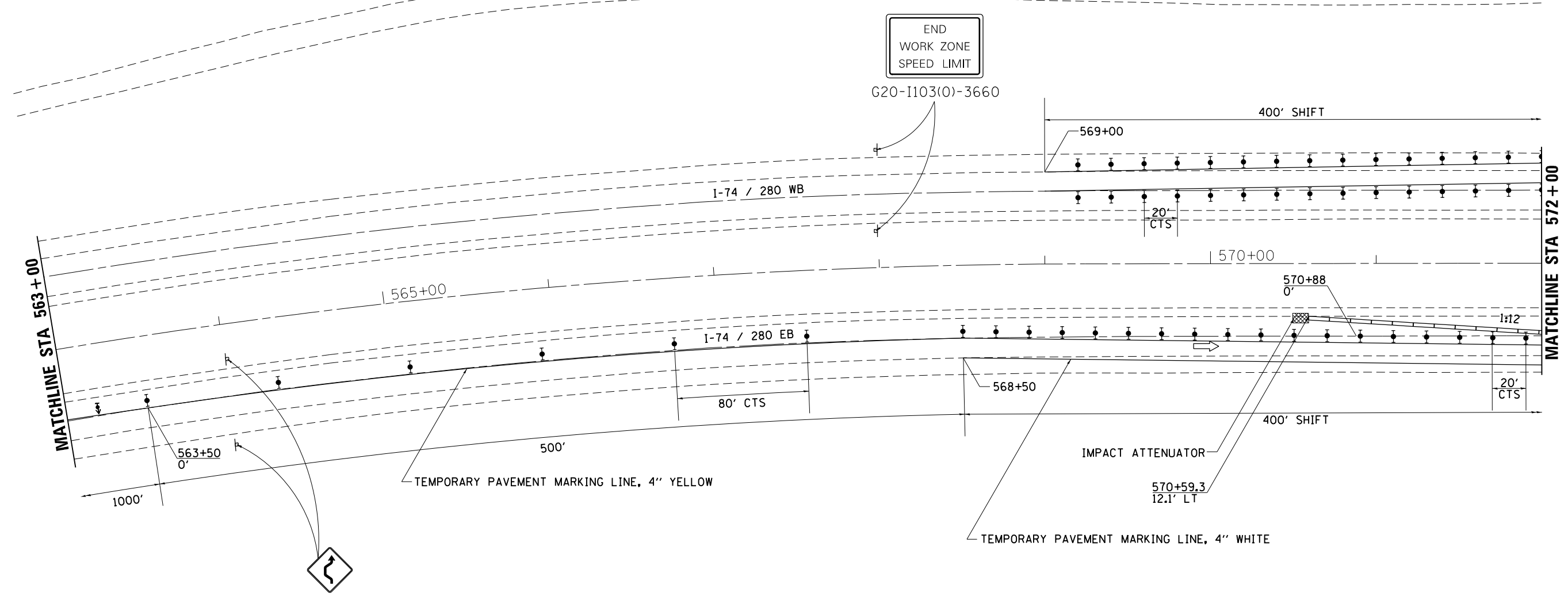
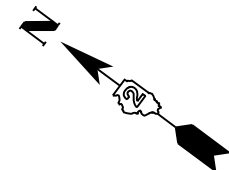
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE I**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37-IHBRIM)	HENRY	27	5
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE I FOR SN 037-0003 & 037-0004



### SYMBOLS

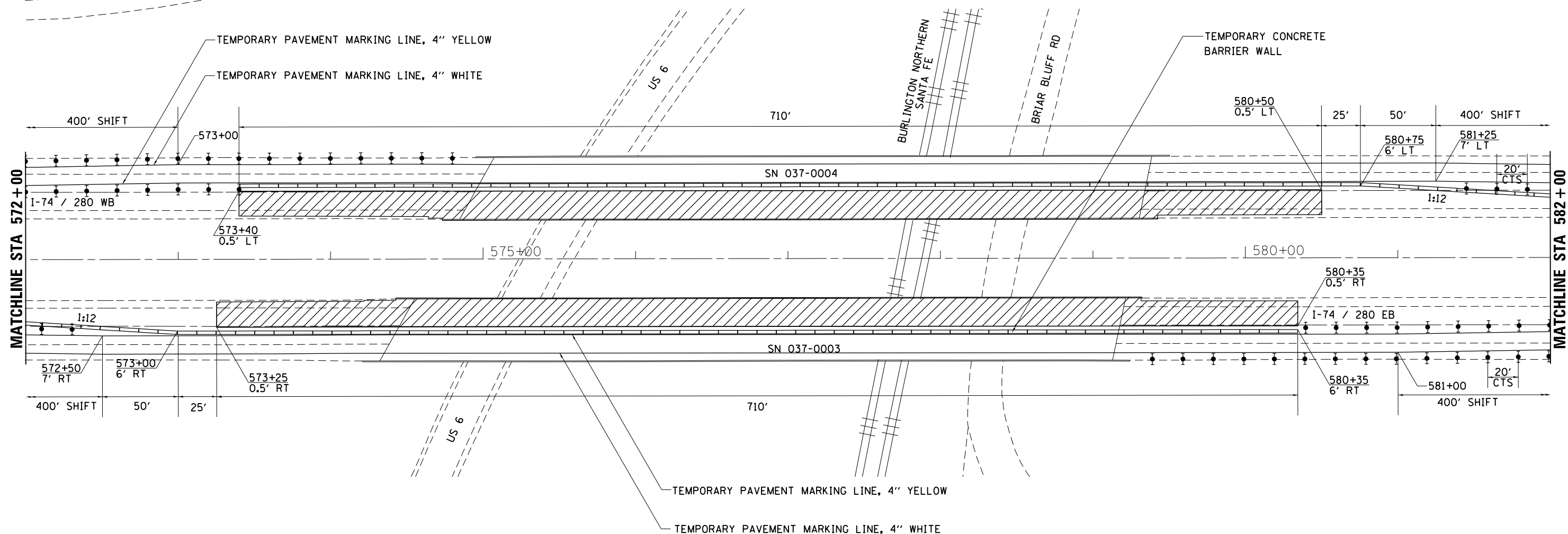
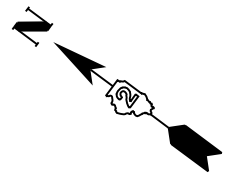
- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
- Temporary concrete barrier
- Impact attenuator
- Drums with steady burning monodirectional light

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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- ⑤ Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN FOR SN 037-0003 &amp; 037-0004 STAGE I</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
D:\BR\Doss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\205509-shd-cover.d						DRAWN - _____	REVISED - _____	74/280	(37-IHBRIM)	HENRY	27	6
Default						CHECKED - _____	REVISED - _____	CONTRACT NO. 64E94			ILLINOIS FED. AID PROJECT	
PLOT DATE = Mon Jan 06 07:49:20 2014						DATE - _____	REVISED - _____	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____				

# TRAFFIC CONTROL PLAN – STAGE I FOR SN 037-0003 & 037-0004



### SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ⬆ Direction indicator barricade with steady burn monodirectional light
- ⬇ Type II barricade or drum with steady burn monodirectional light
- ▬ Temporary concrete barrier
- ▩ Impact attenuator
- Drums with steady burning monodirectional light

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
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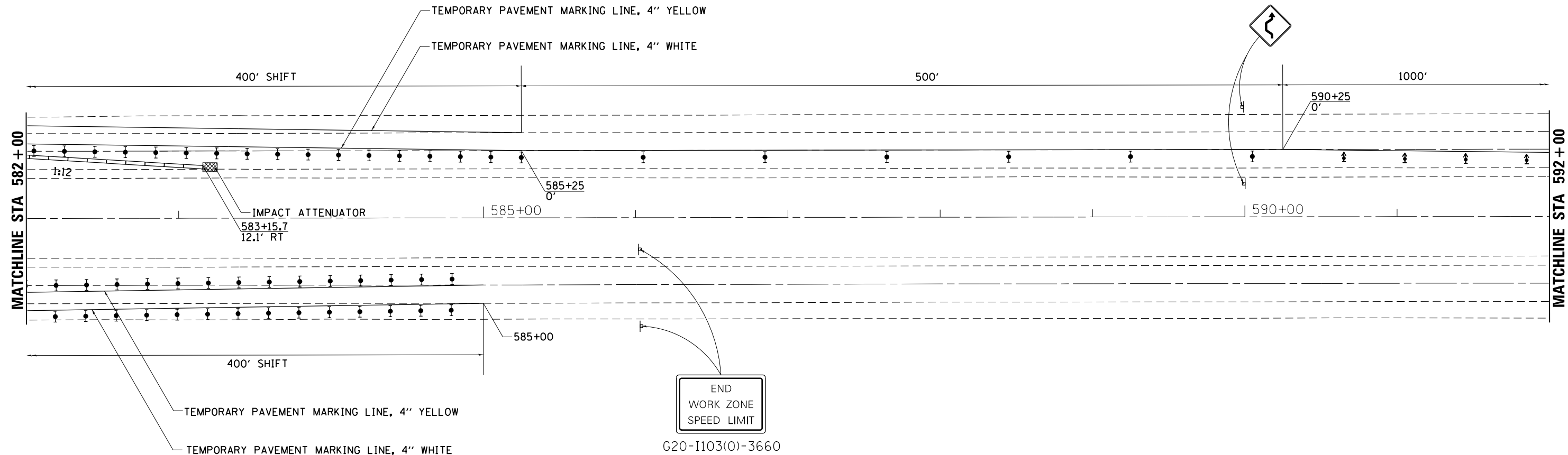
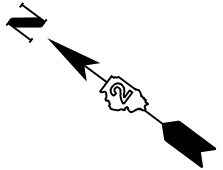
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE I**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37)HBRM	HENRY	27	7
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE I FOR SN 037-0003 & 037-0004



### SYMBOLS

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

### NOTES

- ① Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
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		DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

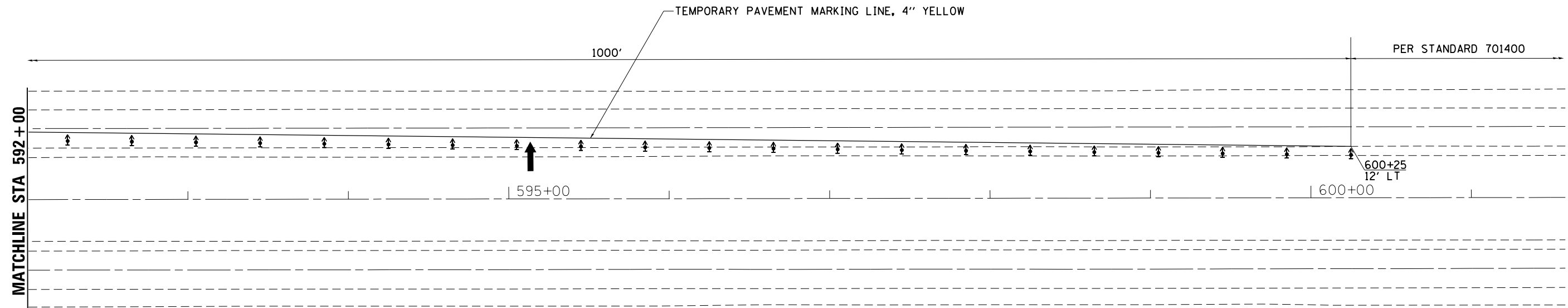
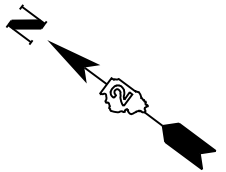
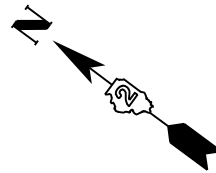
**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE I**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(371HBRM)	HENRY	27	8
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				



# TRAFFIC CONTROL PLAN – STAGE I FOR SN 037-0003 & 037-0004



### SYMBOLS

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

### NOTES

- ① Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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- ③ Offsets shown are from the centerline pavement marking of the direction of travel.
- ④ Barrier wall offsets are to the construction side of the barrier wall.
- ⑤ Refer to Highway Standard 701402 for additional details not shown.

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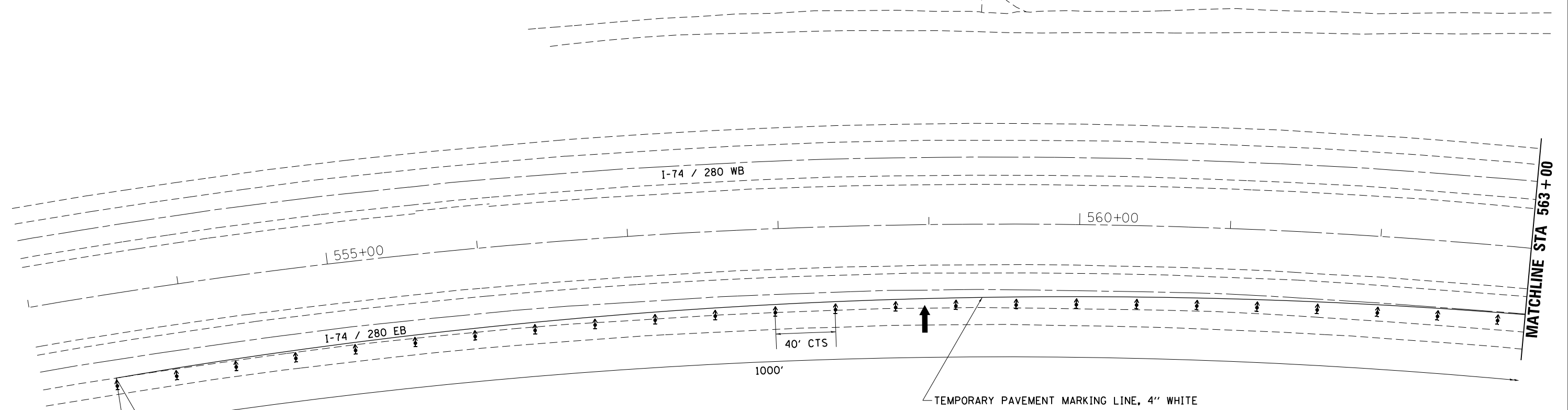
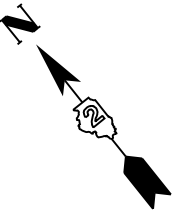
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE I**









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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(371HBRM)	HENRY	27	9
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE II FOR SN 037-0003 & 037-0004



### SYMBOLS

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

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- ③ Offsets shown are from the centerline pavement marking of the direction of travel.
- ④ Barrier wall offsets are to the construction side of the barrier wall.
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FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
D:\BR\Doss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\205509-sht-cover.d	DRAWN - _____	REVISIONS - _____	REVISIONS - _____
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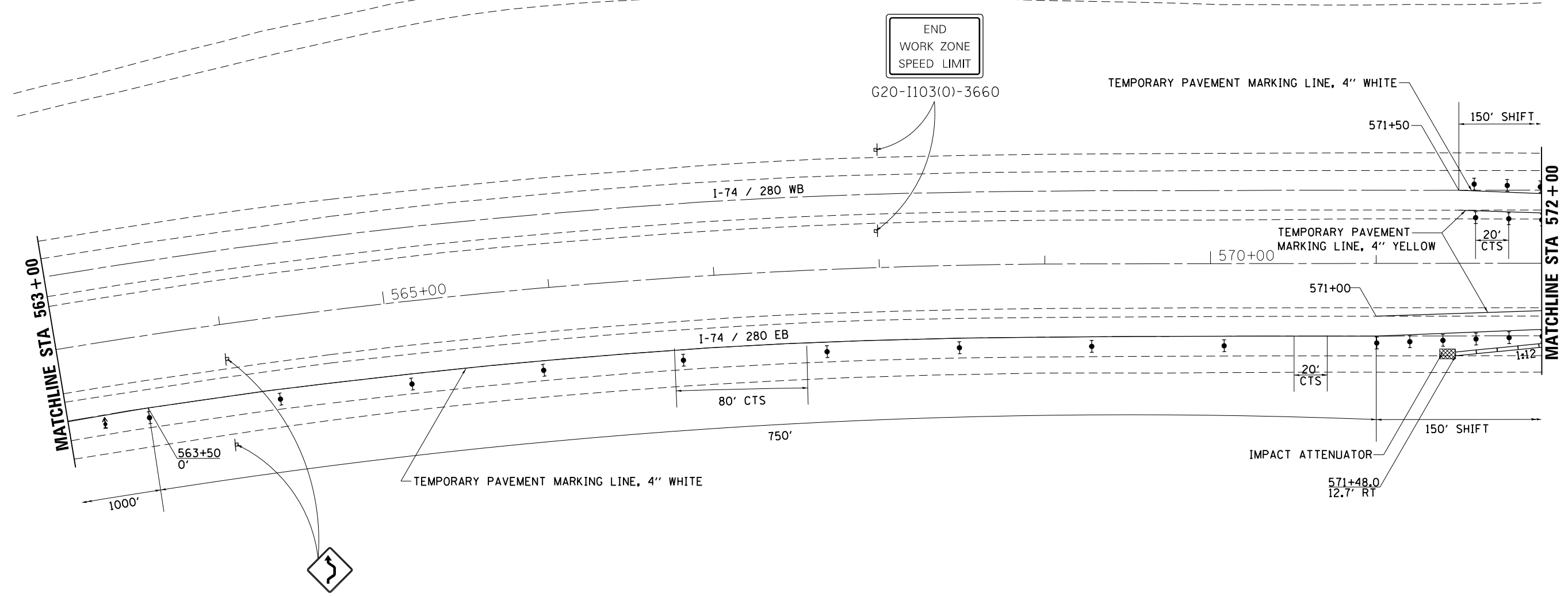
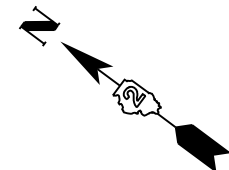
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE II**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37-IHBRIM)	HENRY	27	10
CONTRACT NO. 64E94			ILLINOIS FED. AID PROJECT	

# TRAFFIC CONTROL PLAN – STAGE II FOR SN 037-0003 & 037-0004



### SYMBOLS

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

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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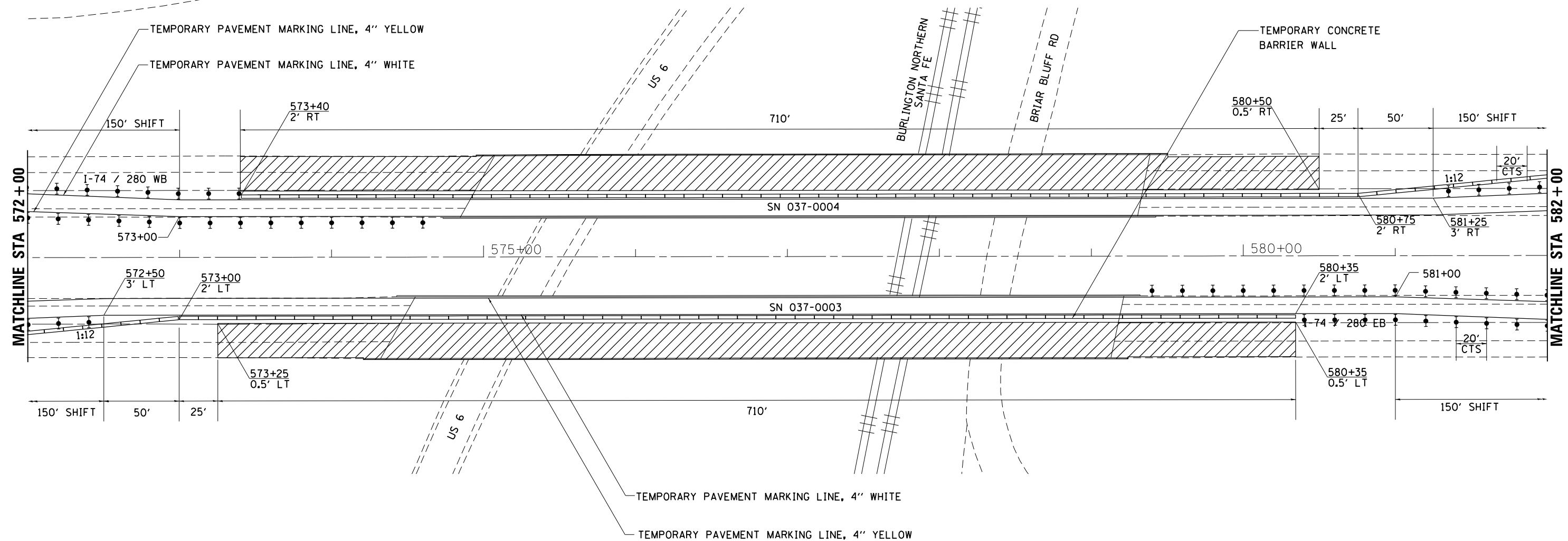
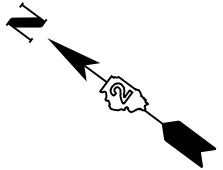
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE II**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37-IHBRIM)	HENRY	27	11
CONTRACT NO.			64E94	
ILLINOIS FED. AID PROJECT				

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

# TRAFFIC CONTROL PLAN – STAGE II FOR SN 037-0003 & 037-0004



### SYMBOLS

- ↑ Arrow board
- ▨ Work area
- T Sign
- ⬆ Direction indicator barricade with steady burn monodirectional light
- ⬇ Type II barricade or drum with steady burn monodirectional light
- ▬ Temporary concrete barrier
- ▩ Impact attenuator
- Drums with steady burning monodirectional light

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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- ⑤ Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
0:\BR\Boss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\205509-shr-cover.d		DRAWN - _____	REVISED - _____
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - _____	REVISED - _____
	PLOT DATE = Mon Jan 06 07:47:32 2014	DATE - _____	REVISED - _____

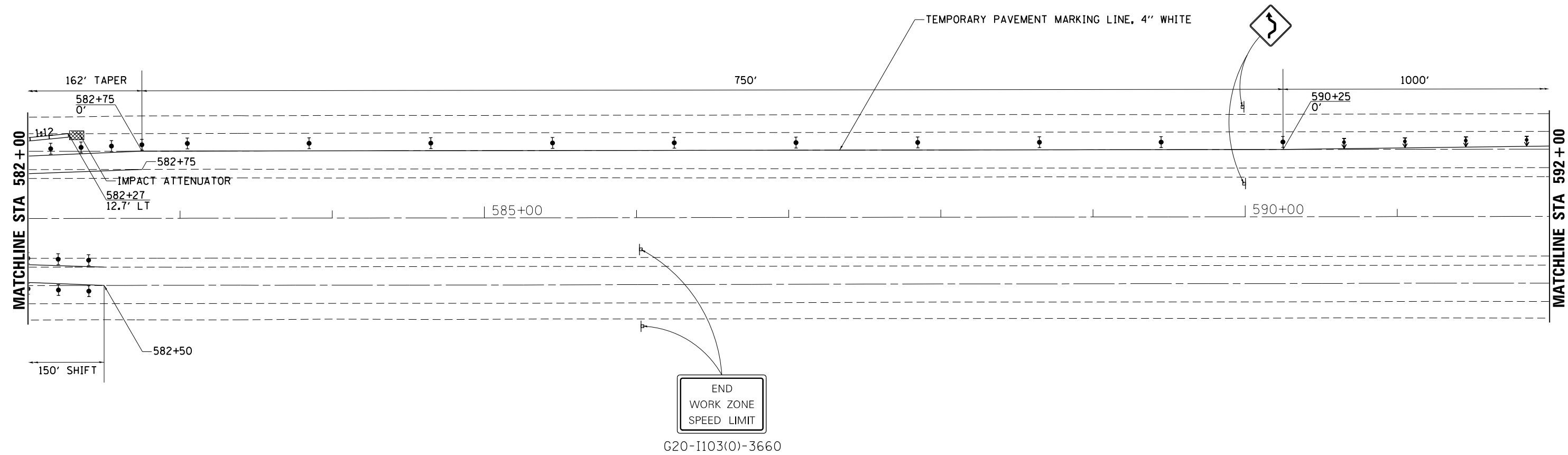
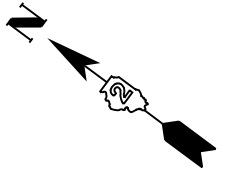
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE II**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(371HBRM)	HENRY	27	12
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				

# TRAFFIC CONTROL PLAN – STAGE II FOR SN 037-0003 & 037-0004



G20-I103(0)-3660

### SYMBOLS

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

### NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- ③ Offsets shown are from the centerline pavement marking of the direction of travel.
- ④ Barrier wall offsets are to the construction side of the barrier wall.
- ⑤ Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossed	DESIGNED - _____	REVISED - _____
Q:\BR\Boss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\205509-shr-cover.d		DRAWN - _____	REVISED - _____
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - _____	REVISED - _____
	PLOT DATE = Mon Jan 06 07:47:56 2014	DATE - _____	REVISED - _____

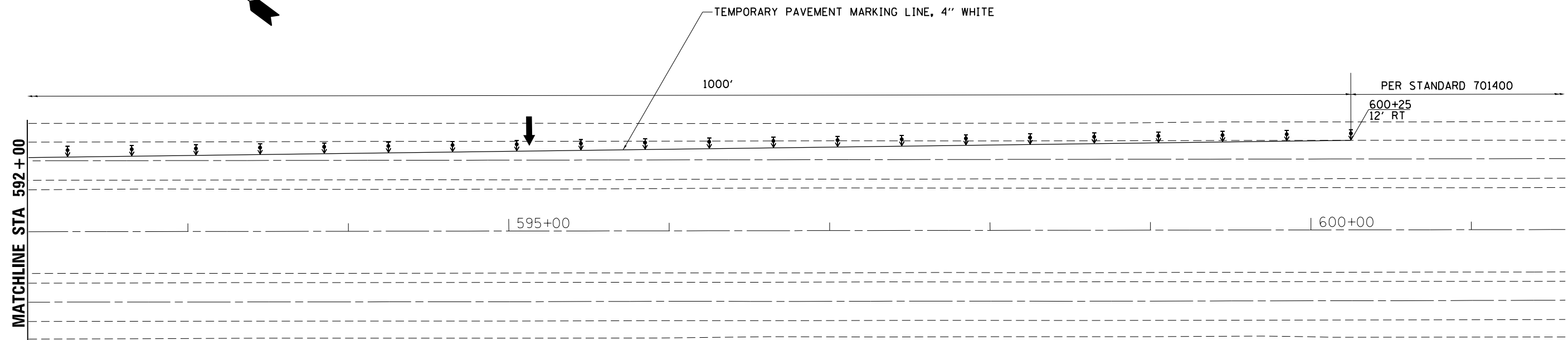
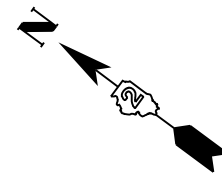
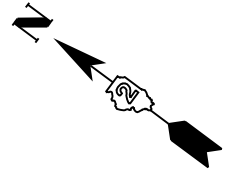
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE II**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(371HBRM)	HENRY	27	13
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				

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

# TRAFFIC CONTROL PLAN – STAGE II FOR SN 037-0003 & 037-0004



### SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
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### NOTES

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- ③ Offsets shown are from the centerline pavement marking of the direction of travel.
- ④ Barrier wall offsets are to the construction side of the barrier wall.
- ⑤ Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dssdd	DESIGNED - _____	REVISED - _____
Default		CHECKED - _____	REVISED - _____
		DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

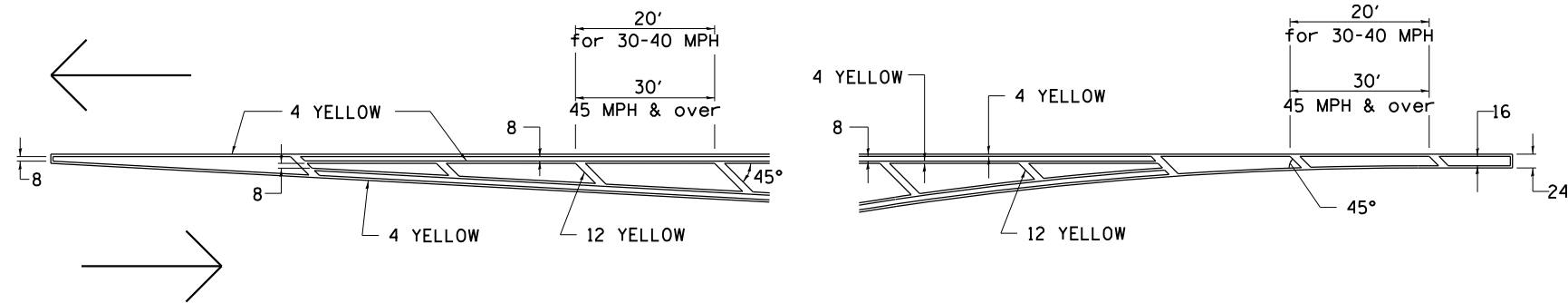
**TRAFFIC CONTROL PLAN FOR SN 037-0003 & 037-0004  
STAGE II**

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

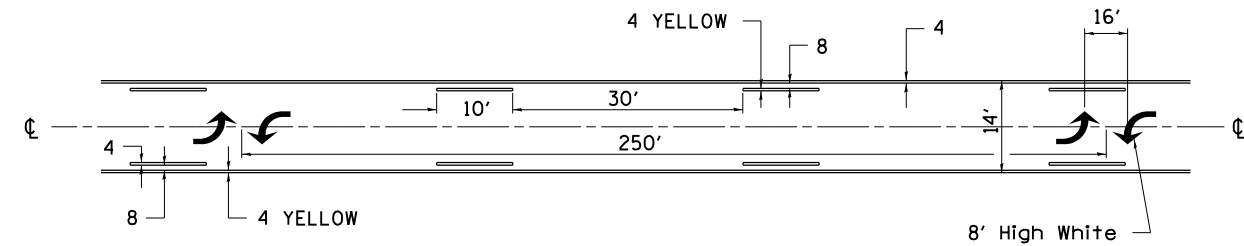
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(371HBRM)	HENRY	27	14
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

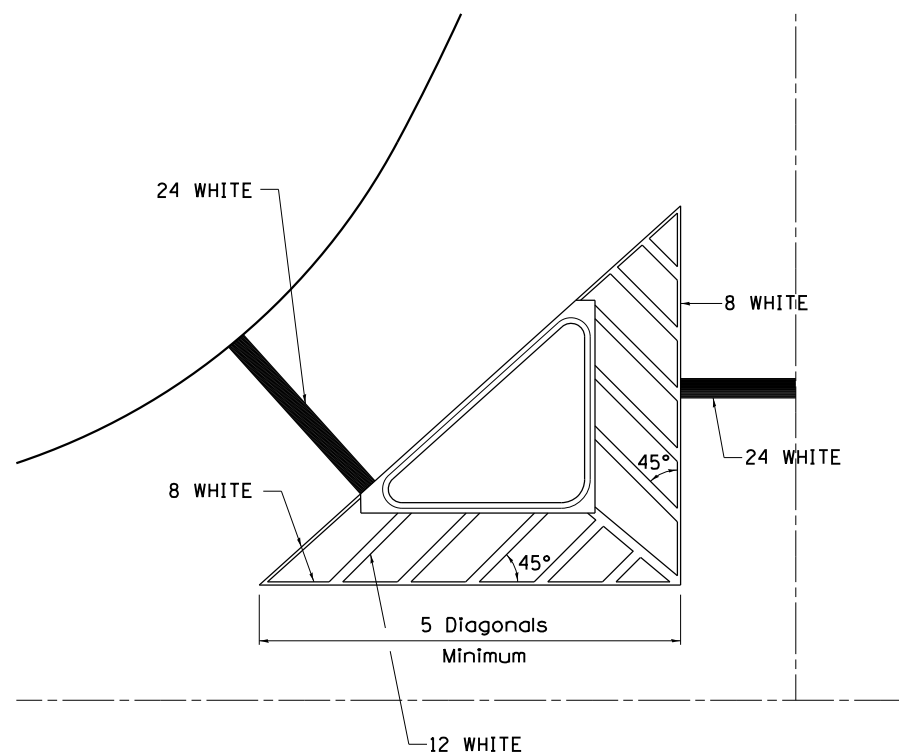


## MEDIAN PAVEMENT MARKING

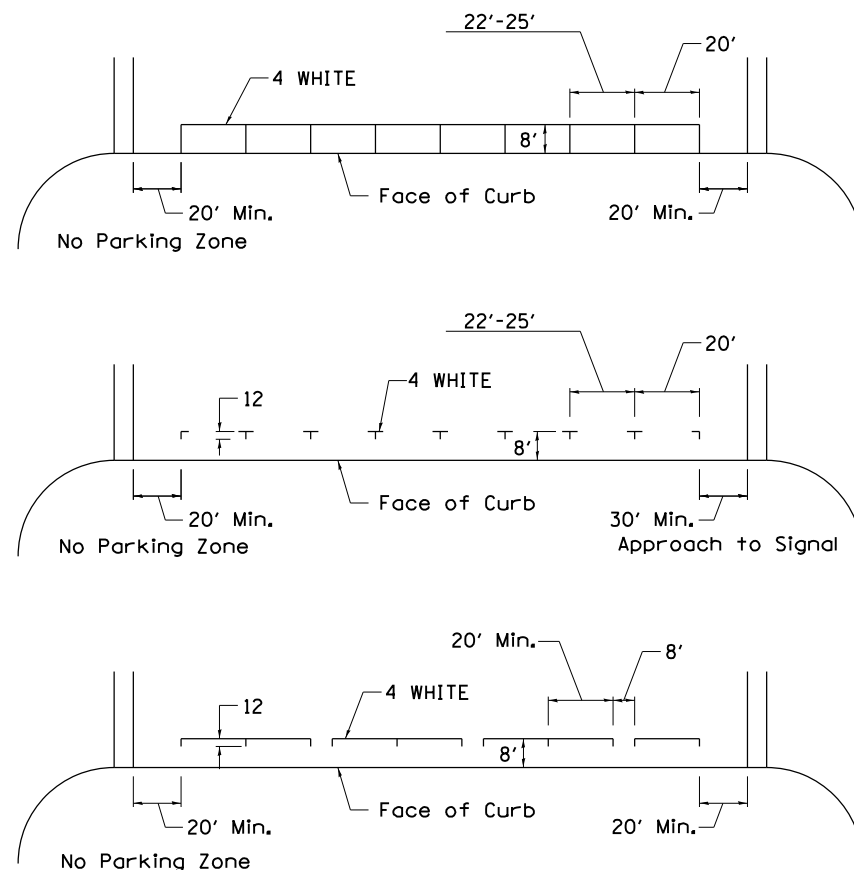


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

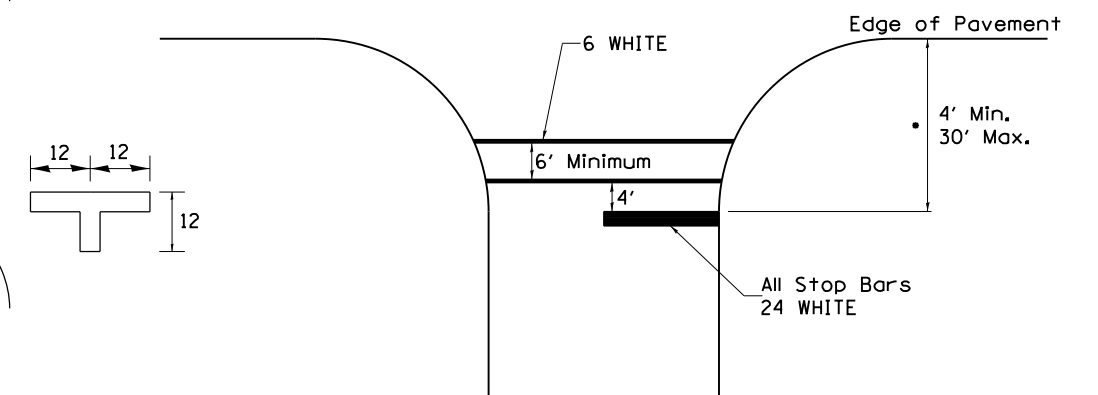


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations

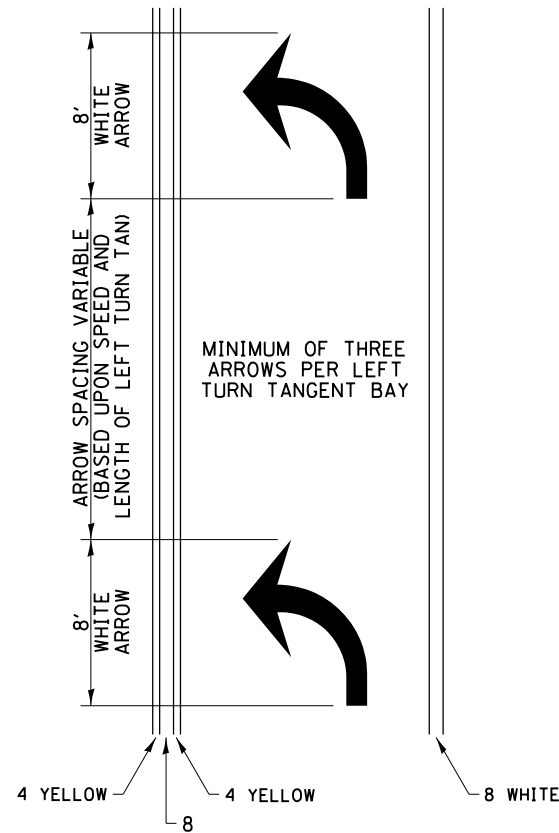


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossdd	DESIGNED -	REVISED - 3-05-12	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Doss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\0205509-shr-cover.d	DRAWN -	REVISED -	74/280			(37-IHBRIM)	HENRY	27	15	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 64E94							
PLOT DATE = Mon Jan 06 07:50:23 2014	DATE -	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

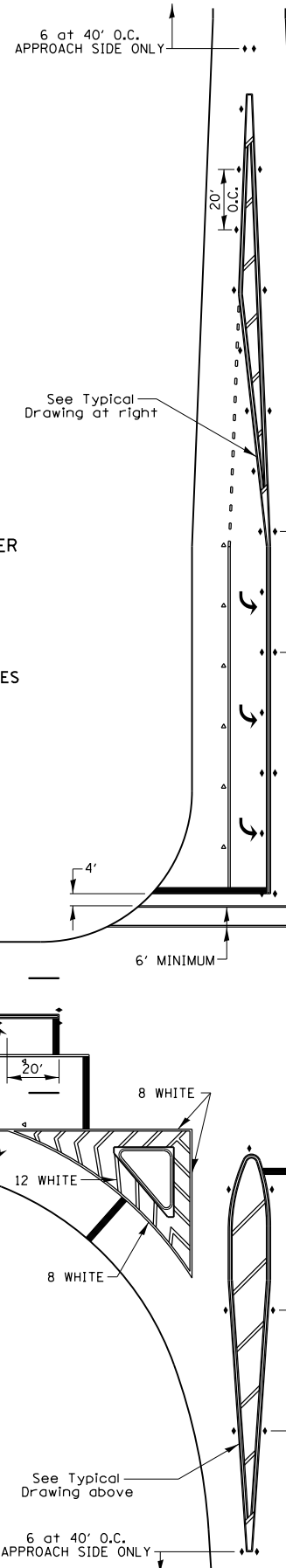
# TYPICAL PAVEMENT MARKINGS

## ARROW LAYOUT

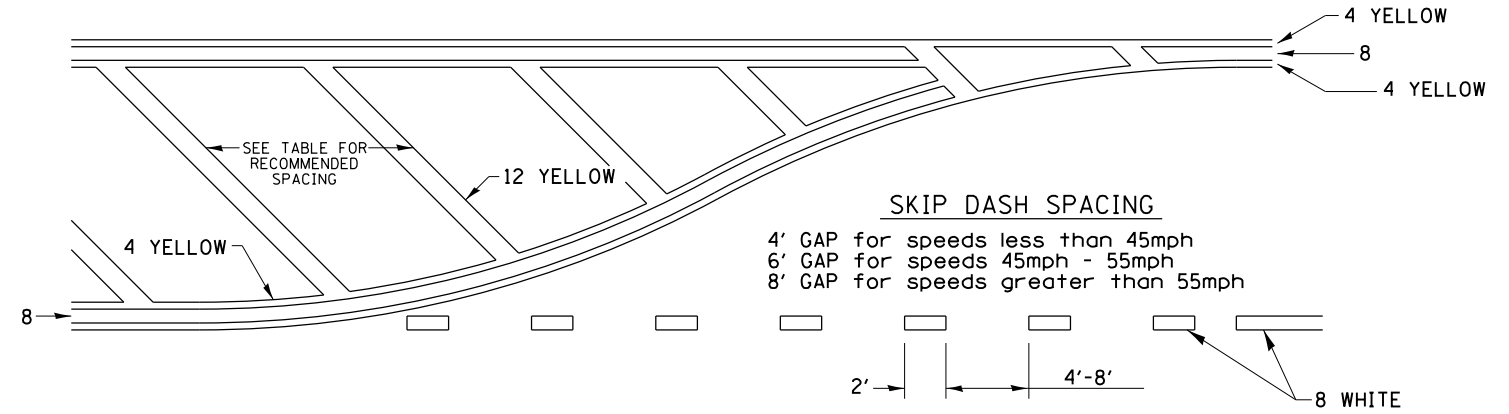


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



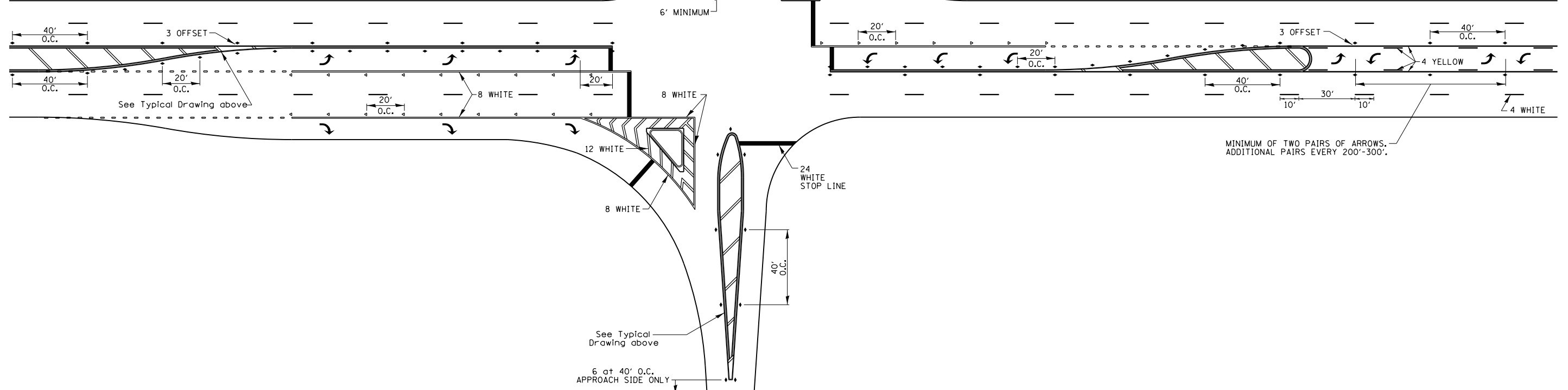
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 3-05-12
D:\BR\Draws\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\0205509-shr-cover.d		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

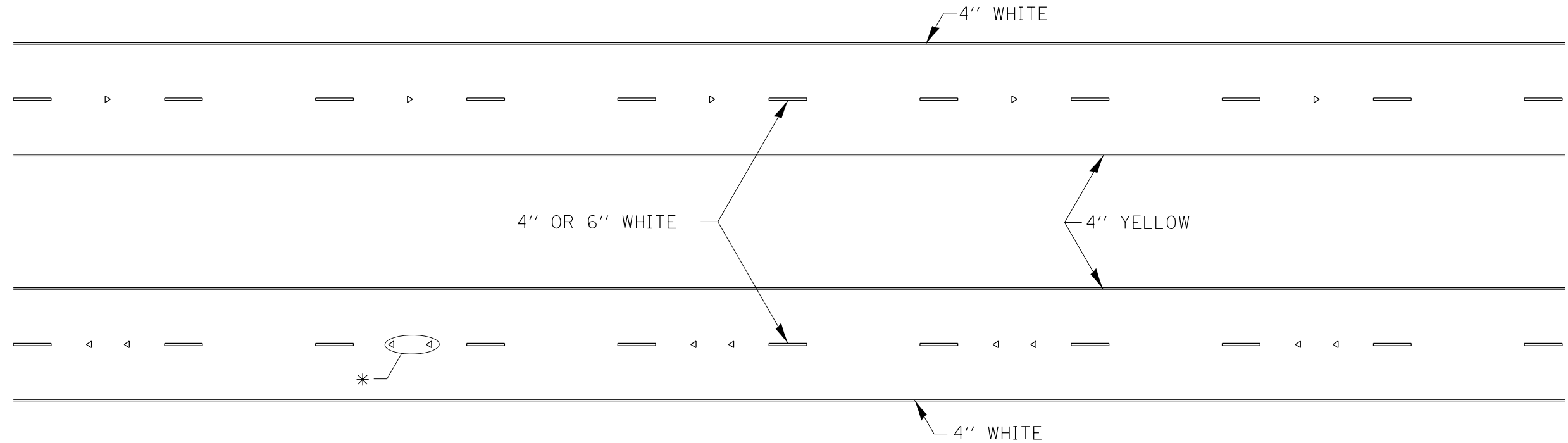
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD  
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37-1HBRIM)	HENRY	27	16
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E94	

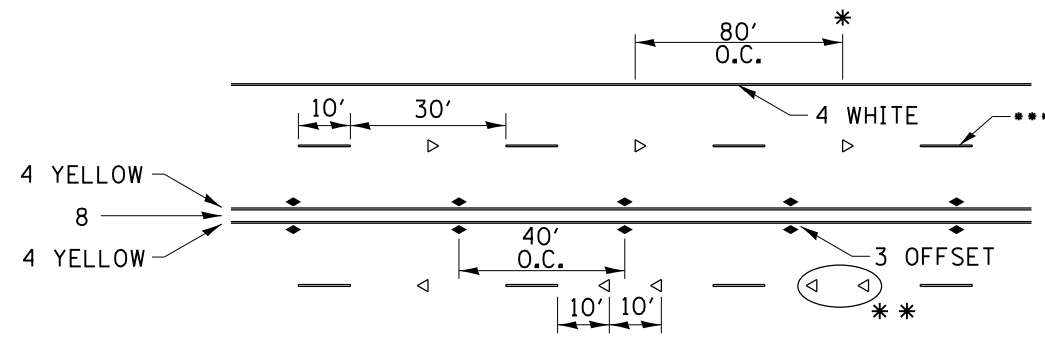


# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT  $\geq$  20,000.

## MULTI-LANE / DIVIDED

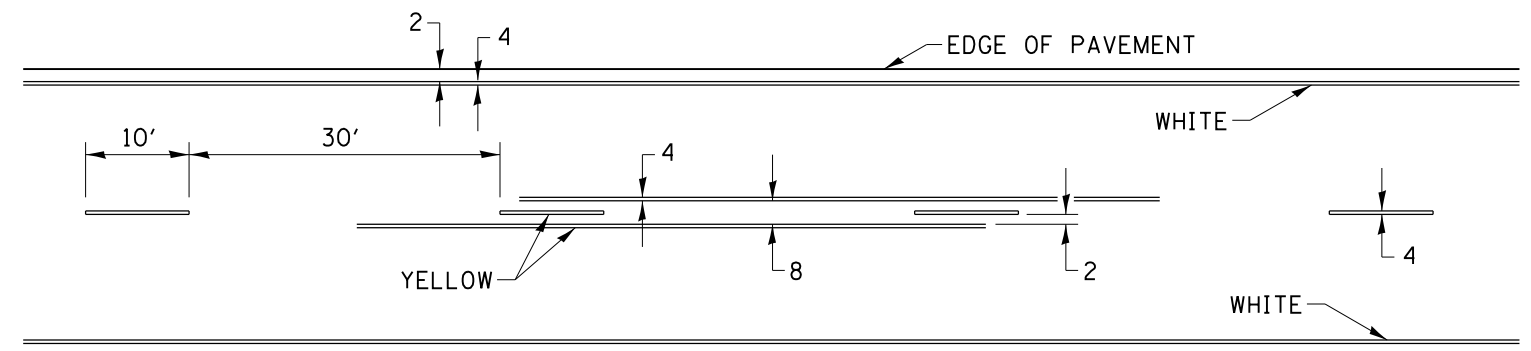


- \* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT  $\geq$  20,000
- \*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS  
DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

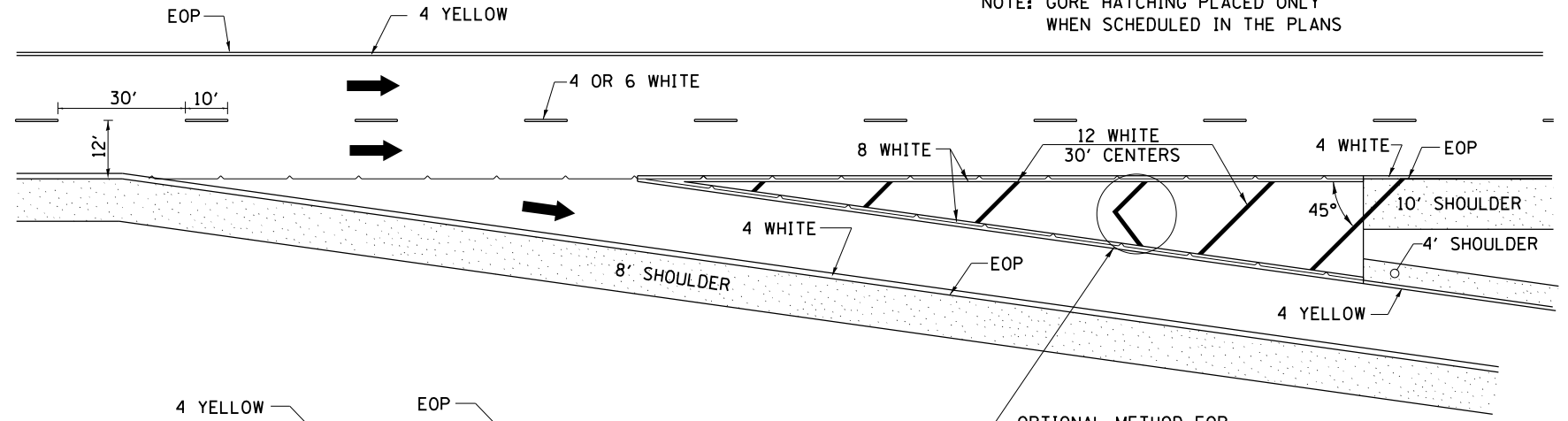
FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 8-27-13	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Doss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\0205509-shr-cover.d	DRAWN -	REVISED - 11-28-12	74/280			(37-IHBRIM)	HENRY	27	17	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 64E94							
PLOT DATE = Mon Jan 06 07:50:53 2014	DATE -	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

# PAINING DETAILS

CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

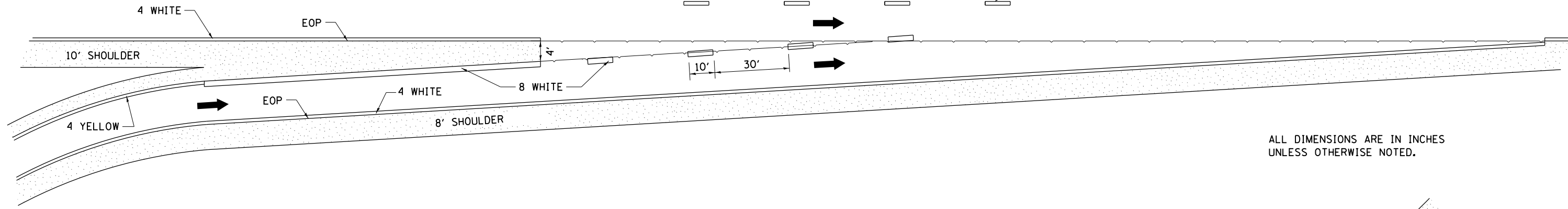
## EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS



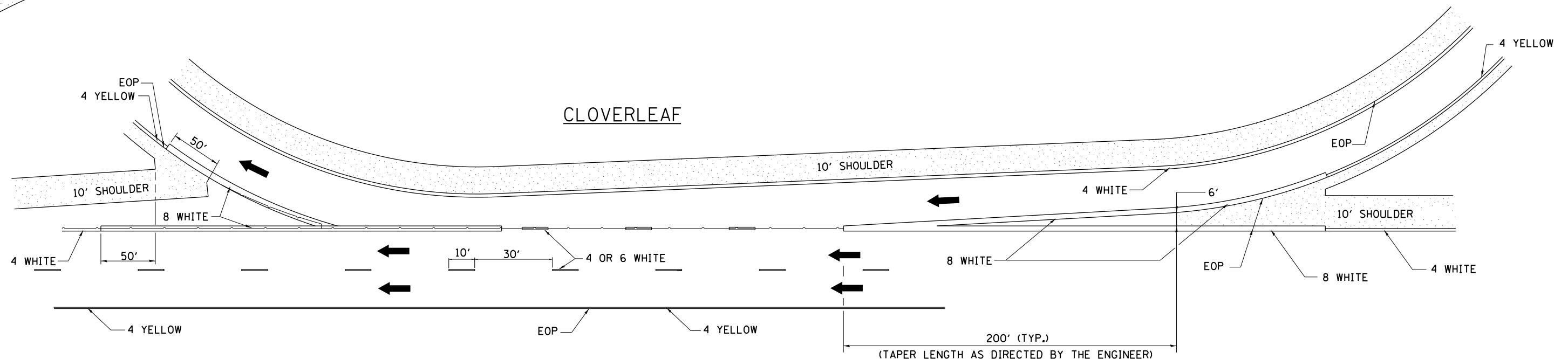
OPTIONAL METHOD FOR HIGH VOLUME OFF RAMP

## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



FILE NAME =	USER NAME = dossdd	DESIGNED -	REVISED - 8-27-13
D:\BR\Doss\Henry\64E94 Repairs SN 037-0003 and SN 037-0004\CADD\0205509-shr-cover.d		DRAWN -	REVISED - 10-18-11
		CHECKED -	REVISED -
		DATE -	REVISED -

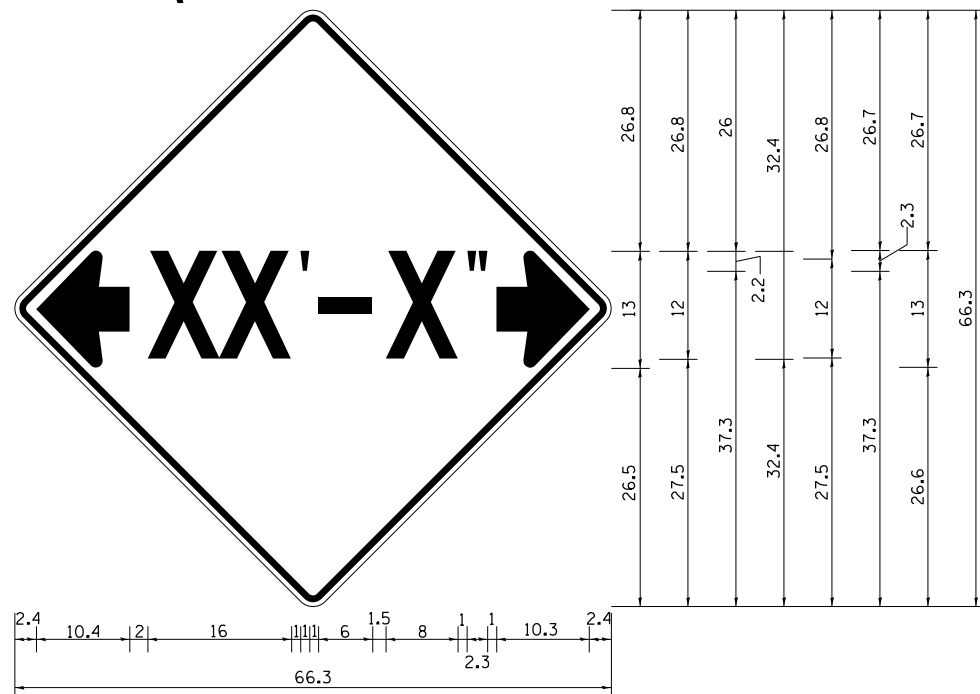
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

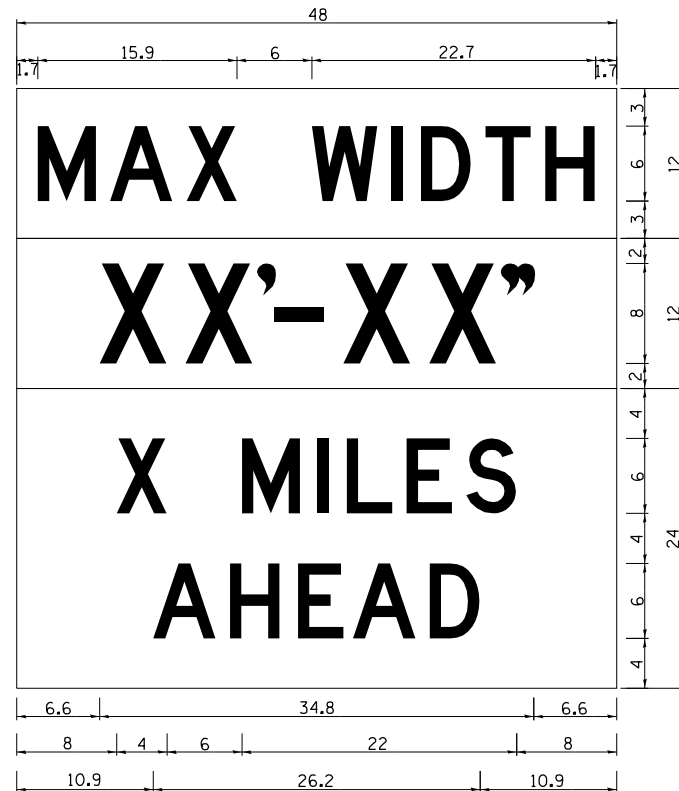
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	(37-IHBRIM)	HENRY	27	18
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E94	

# 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.

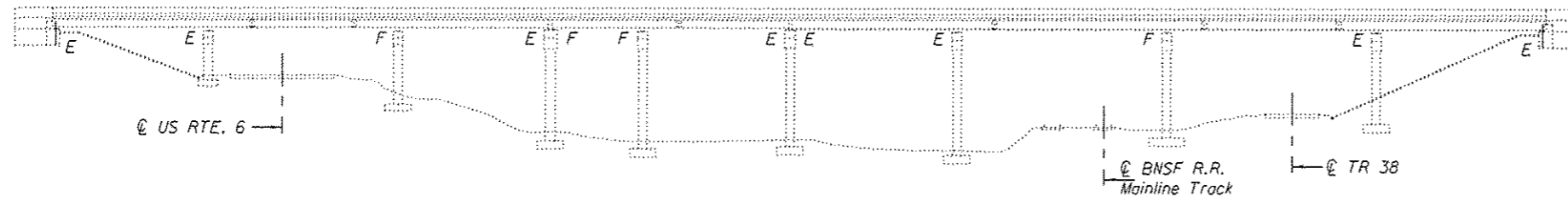
REVISED - 5-15-09

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		74/280	(37-IHBRIM)	HENRY	27	19
REVISED -		CONTRACT NO. 64E94				
REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

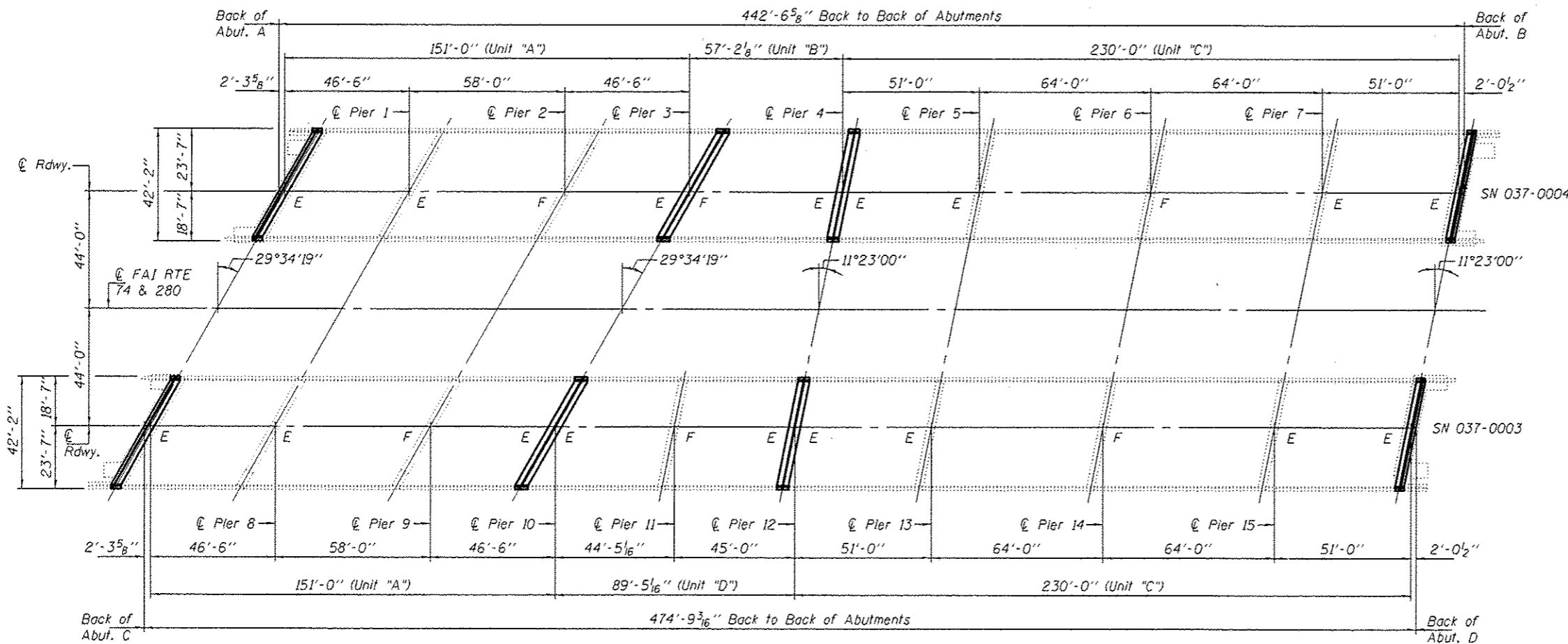
PLOT DATE = Mon Jan 06 07:51:25 2014

**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 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.  
 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.  
 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.  
 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.  
 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.



**ELEVATION**



**PLAN**

Remove existing expansion joints and install Preformed Joint Strip Seal at Abutments and Piers 3, 4, 10 & 12.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	61.1
Concrete Superstructure	Cu. Yd.	61.6
Preformed Joint Strip Seal	Foot	366
Reinforcement Bars, Epoxy Coated	Pound	7640
Bar Splicers	Each	112
* Protective Coat	Sq. Yd.	157.4
** Structural Repair of Concrete, Depth > 5"	Sq. Ft.	60
** Structural Repair of Concrete, Depth < 5"	Sq. Ft.	1470
Temporary Shoring and Cribbing	Each	2

\* On new concrete only.  
 \*\* Estimated quantity. Actual locations to be determined in the field, by the engineer.



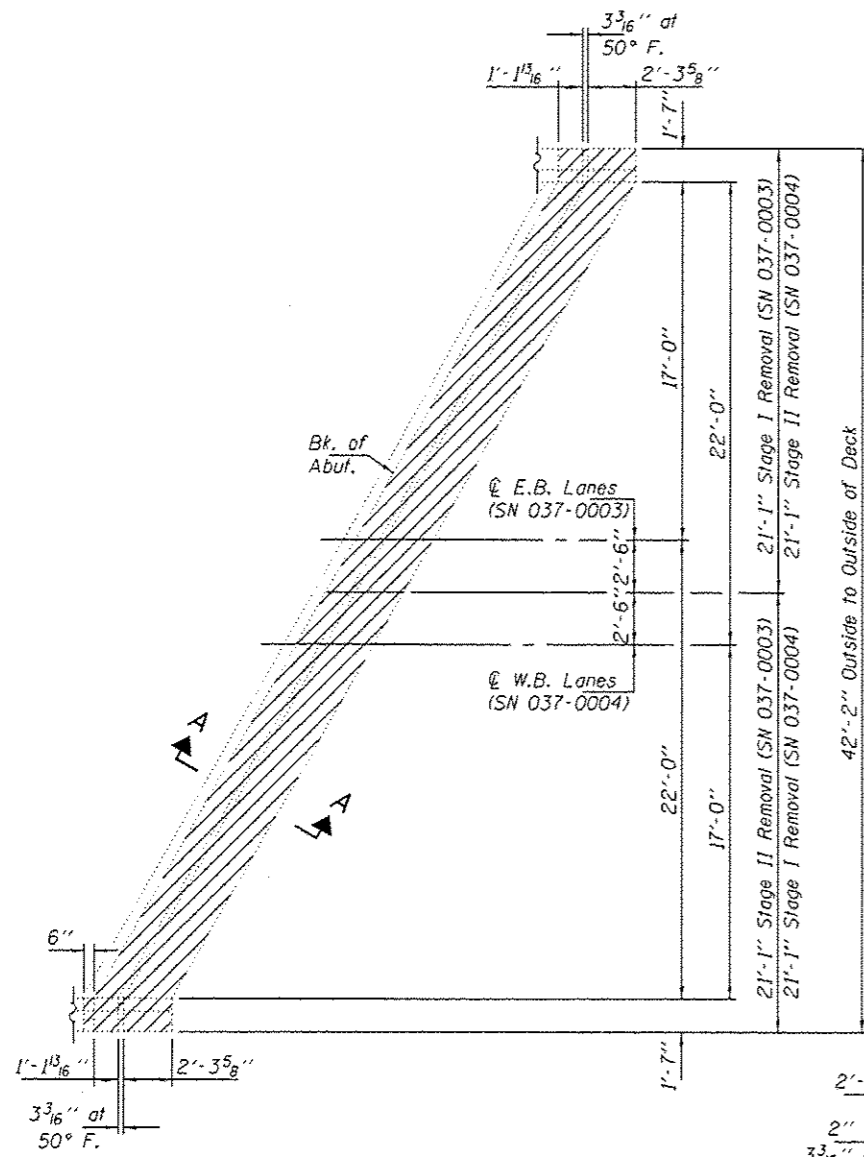
DESIGNED <i>Orin B. Adair</i>	EXAMINED <i>Timothy A. Adair</i>	DATE MARCH 6, 2014
CHECKED <i>Vickie H. Dalton</i>	PASSED <i>Debra M. Steffen</i>	REVISED
DRAWN Kyle M. Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED <i>Orin B. Adair</i>		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

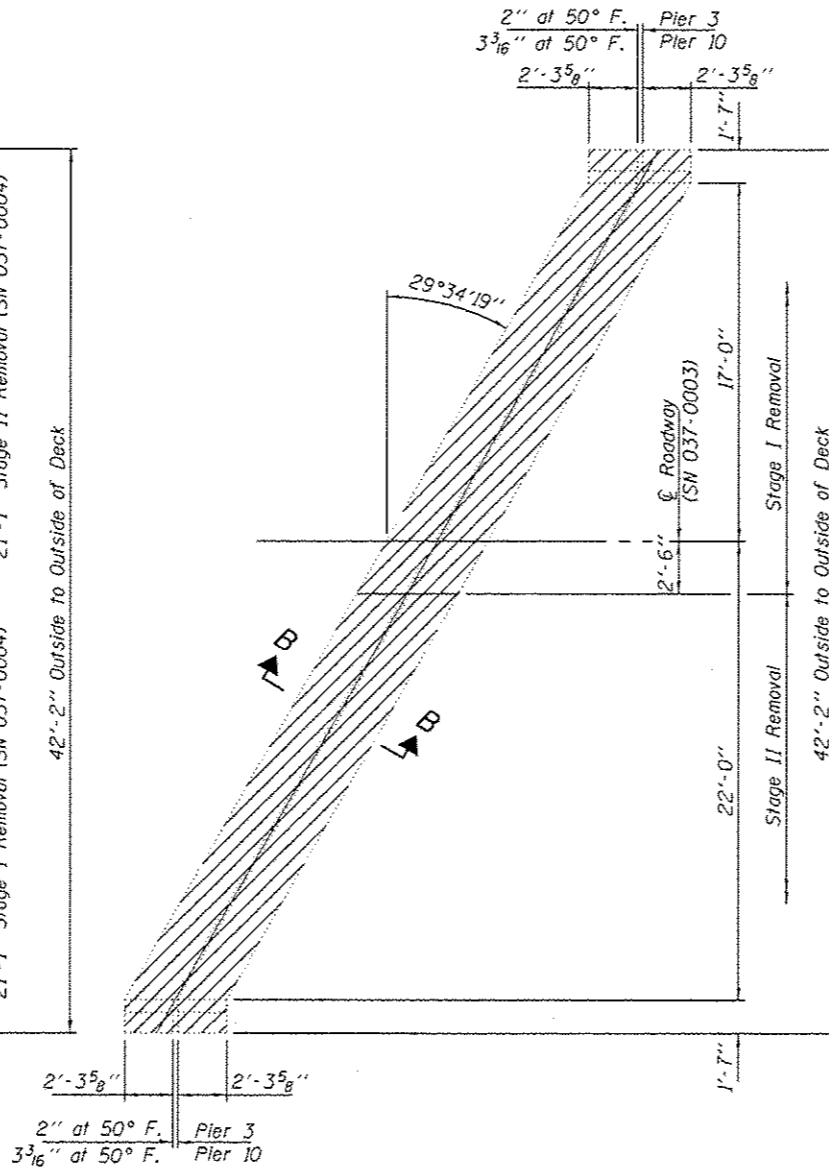
PLAN AND ELEVATION  
 FAI 74 & I 280 OVER US 6, BNSF RR & TR 38  
 SN 037-0003 & 0004

F.A.I. RTE. 14	SECTION 137-1100M	COUNTY HENRY	TOTAL SHEETS 27	SHEET NO. 20
CONTRACT NO. 64E94			ILLINOIS FED. AID PROJECT	

SHEET NO. 1 OF 8 SHEETS

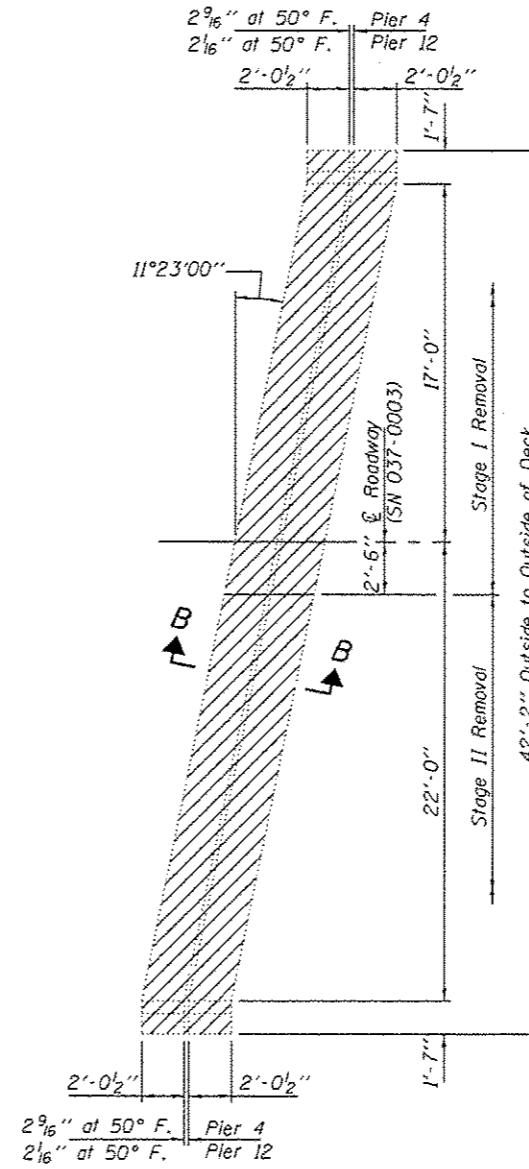


PARTIAL PLAN AT W. ABUTMENTS



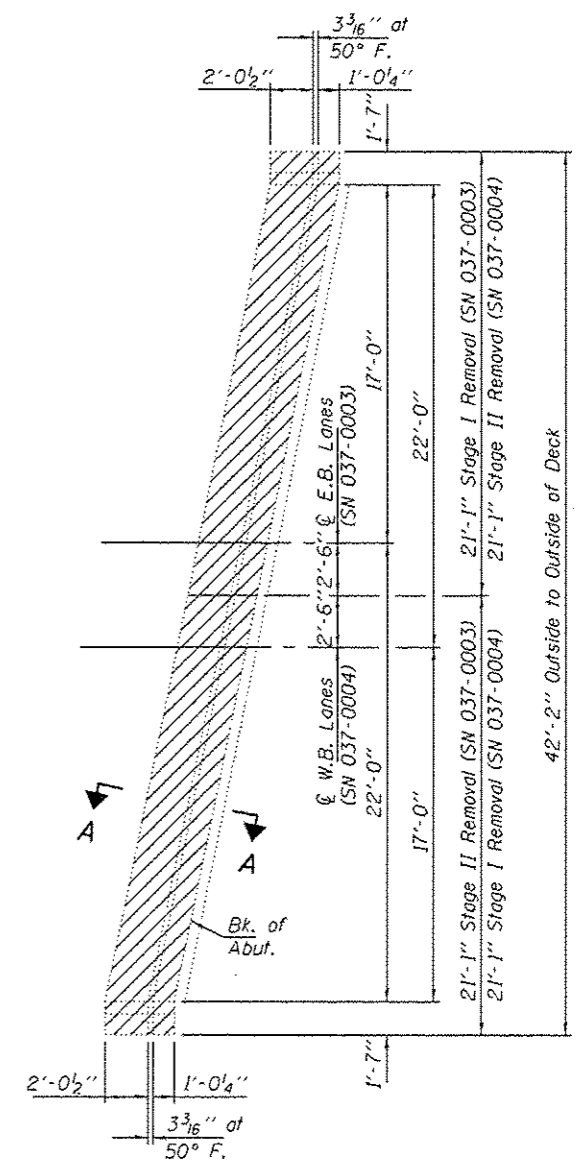
PARTIAL PLAN AT PIER 10

Pier 3 similar by 180° rotation



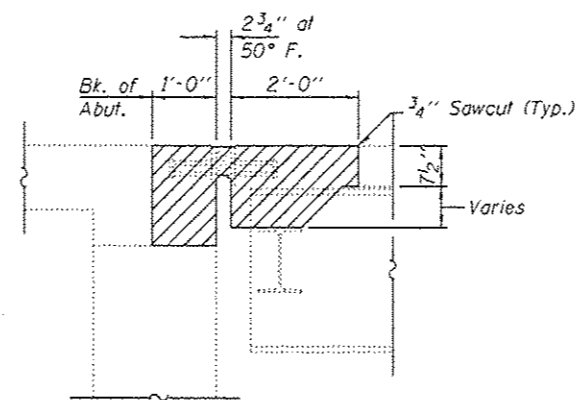
PARTIAL PLAN AT PIER 12

Pier 4 similar by 180° rotation



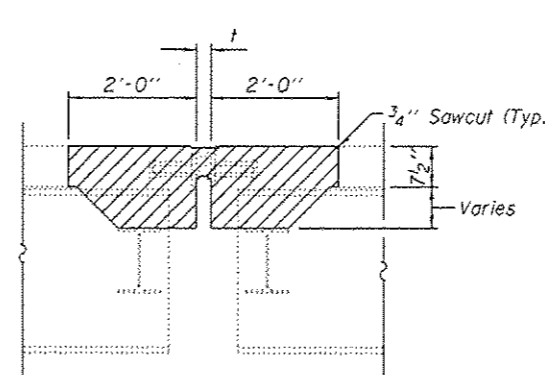
PARTIAL PLAN AT E. ABUTMENTS

Notes:  
Hatched area indicates concrete removal.  
Removal of existing joints is included with Concrete Removal.



SECTION A-A

Horiz. Dim. at Rt. L's



SECTION B-B

Horiz. Dim. at Rt. L's

DIMENSION "4"

LOCATION	"4" at 50° F.
Pier 3	1 3/4"
Pier 4	2 1/4"
Pier 10	2 3/4"
Pier 12	2"

DESIGNED	GGE
CHECKED	VHV
DRAWN	Kyle M. Steffen
CHECKED	GGE VHV

EXAMINED	Timothy A. [Signature]
PASSED	[Signature]

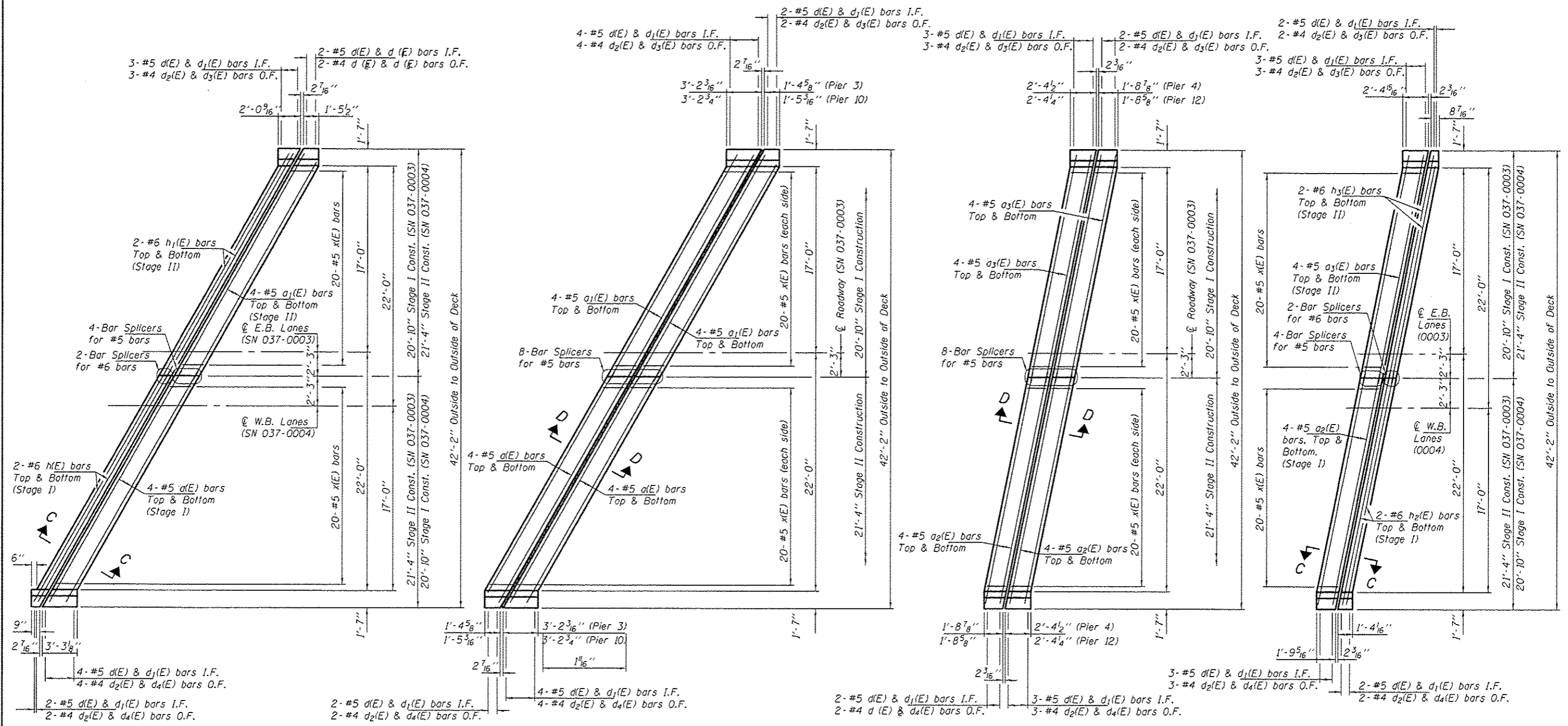
DATE	MARCH 6, 2014
REVISED	
REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL DETAILS  
SN 037-0003 & 0004

SHEET NO. 2 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	137-1BRIM	HENRY	27	21
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				



PARTIAL PLAN AT W. ABUTMENTS

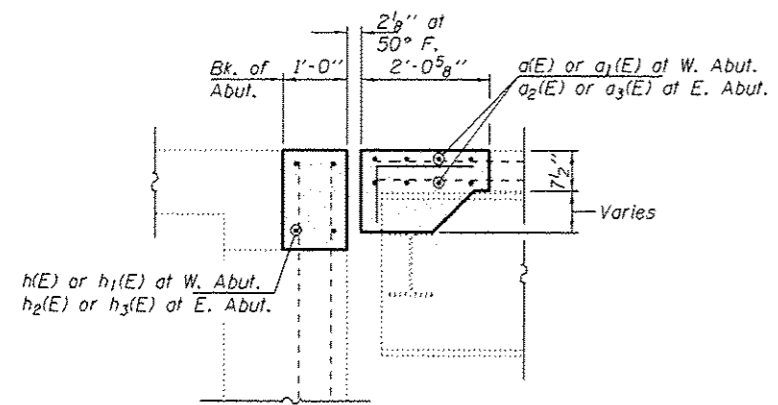
PARTIAL PLAN AT PIER 10  
Pier 3 similar by 180° rotation

PARTIAL PLAN AT PIER 12  
Pier 4 similar by 180° rotation

PARTIAL PLAN AT E. ABUTMENTS

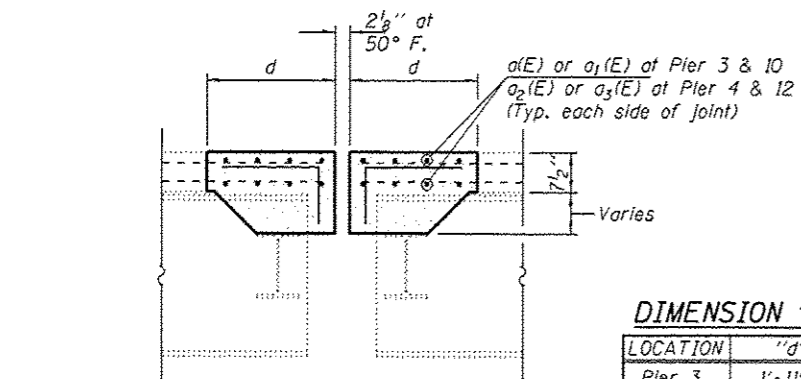
Note:  
For Sections C-C & D-D, see sheet 4 of 8.

DESIGNED GGE	EXAMINED	DATE MARCH 6, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			SUPERSTRUCTURE DETAILS SN 037-0003 & 0004			F.A.J. RTE. 14	SECTION 137-1B3RM	COUNTY HENRY	TOTAL SHEETS 21	SHEET NO. 22
CHECKED VHV	PASSED		SHEET NO. 3 OF 8 SHEETS			ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E94				
DRAWN Kyle M. Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES												
CHECKED GGE VHV	ACTING ENGINEER OF STRUCTURAL SERVICES												



**SECTION C-C**

Horiz. Dim. of Rt. L's

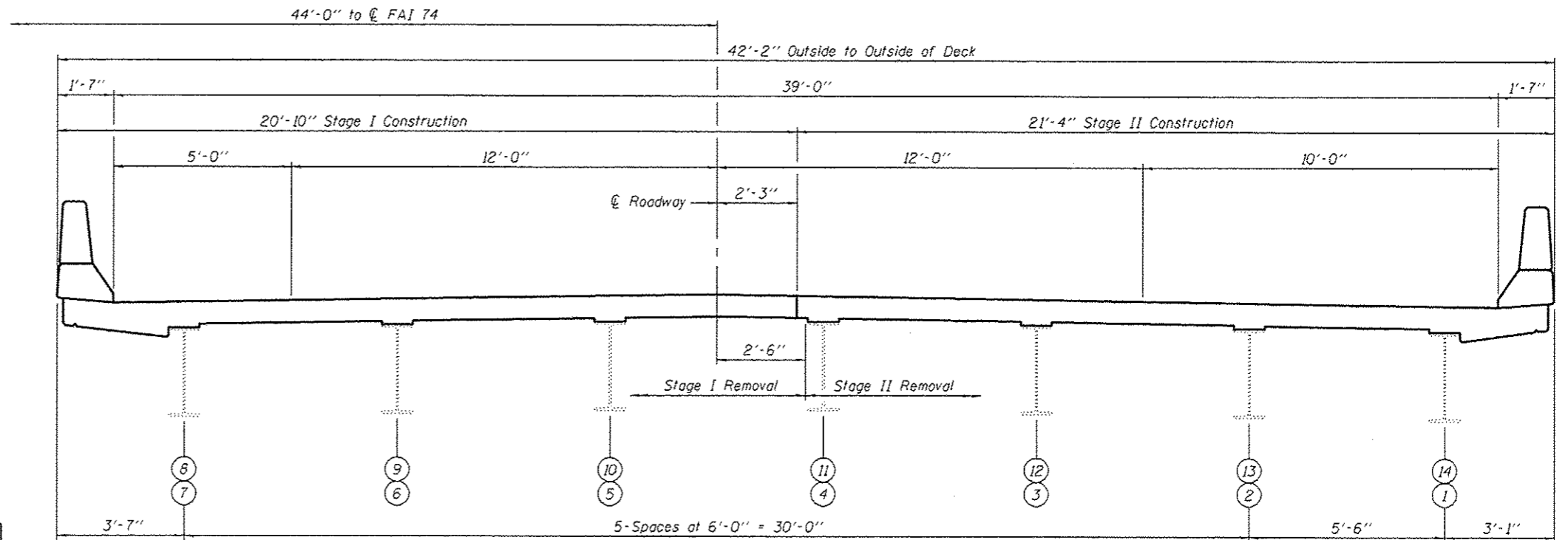


**SECTION D-D**

Horiz. Dim. of Rt. L's

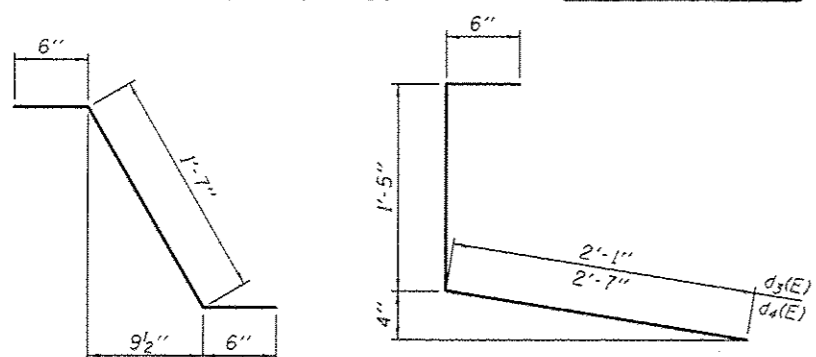
**DIMENSION "d"**

LOCATION	"d"
Pier 3	1'-11 13/16"
Pier 4	2'-0 3/16"
Pier 10	2'-0 5/16"
Pier 12	1'-11 5/16"



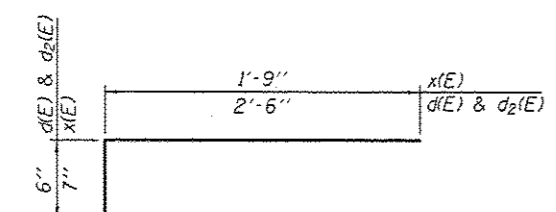
**CROSS SECTION**

Looking East thru SN 037-0003 (E.B.)  
Looking West thru SN 037-0004 (W.B.)

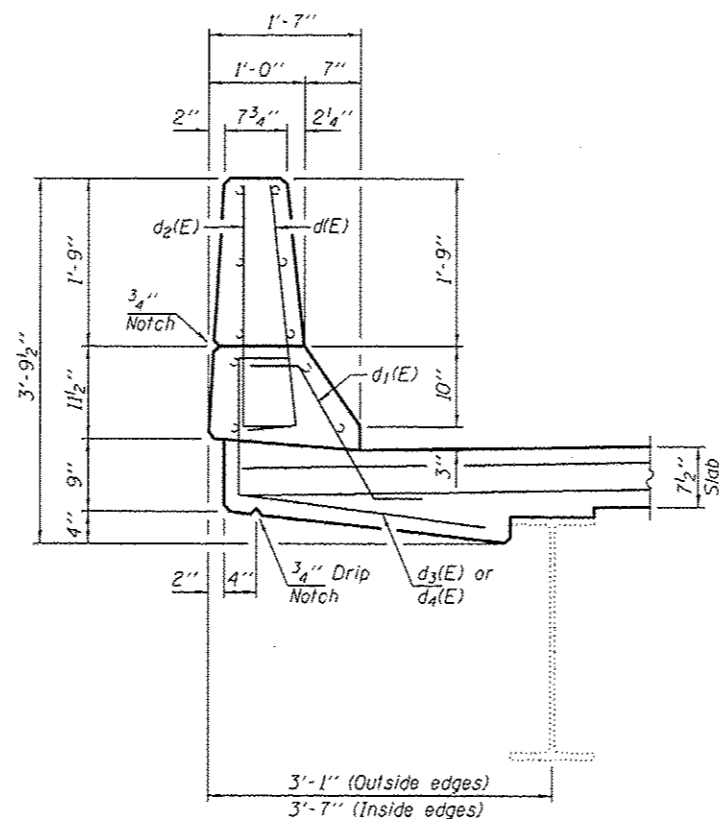


**BAR d1(E)**

**BARS d3(E) & d4(E)**



**BARS d(E), d2(E), & x(E)**



**SECTION THRU PARAPET**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	48	#5	24'-0"	—
a1(E)	48	#5	23'-6"	—
a2(E)	48	#5	21'-3"	—
a3(E)	48	#5	20'-9"	—
d(E)	86	#5	3'-0"	┘
d1(E)	86	#5	2'-7"	┘
d2(E)	86	#4	3'-0"	┘
d3(E)	42	#4	4'-0"	┘
d4(E)	44	#4	4'-6"	┘
h(E)	8	#6	24'-0"	—
h1(E)	8	#6	23'-6"	—
h2(E)	8	#6	21'-3"	—
h3(E)	8	#6	20'-9"	—
x(E)	480	#5	2'-4"	┘
Concrete Removal			Cu. Yd.	61.1
Concrete Superstructure			Cu. Yd.	61.6
Reinforcement Bars, Epoxy Coated			Pound	7640

Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

DESIGNED GGE  
CHECKED VHV  
DRAWN Kyle M. Steffen  
CHECKED GGE VHV

EXAMINED  
PASSED  
ACTING ENGINEER OF STRUCTURAL SERVICES  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

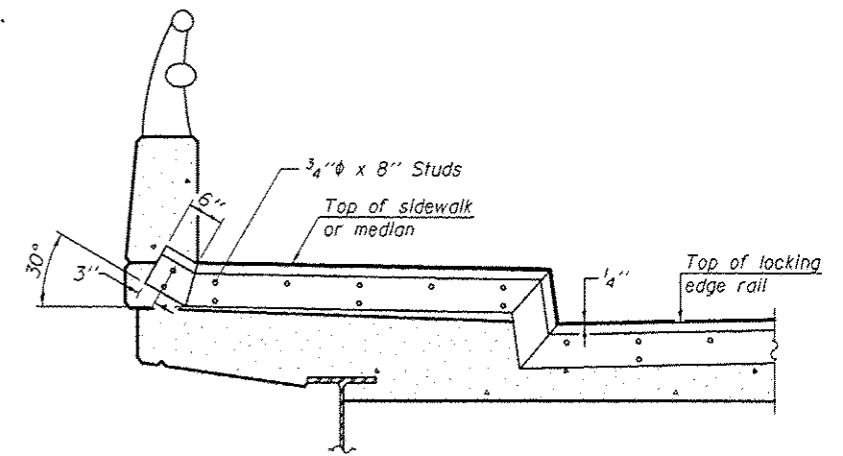
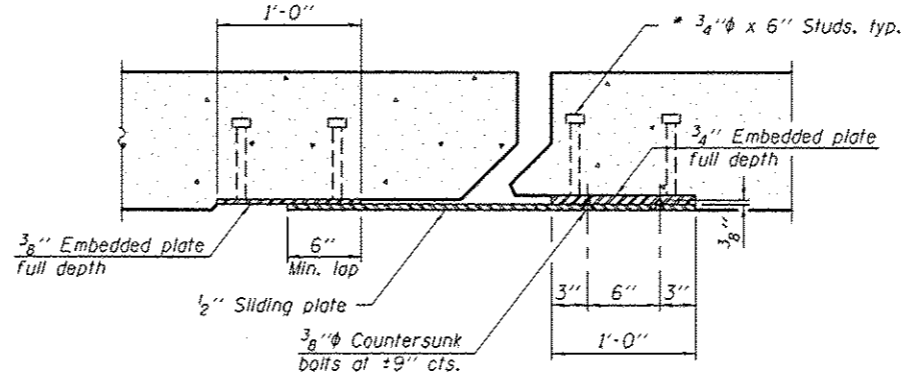
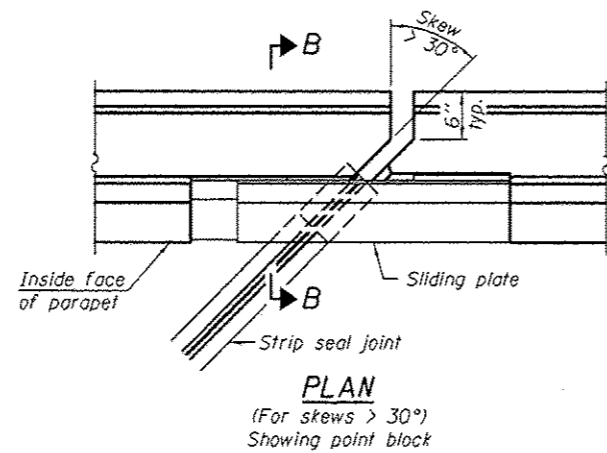
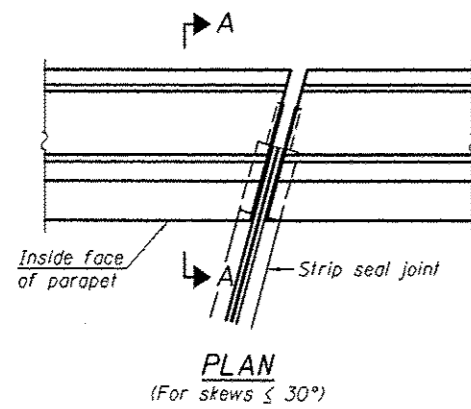
DATE MARCH 6, 2014  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

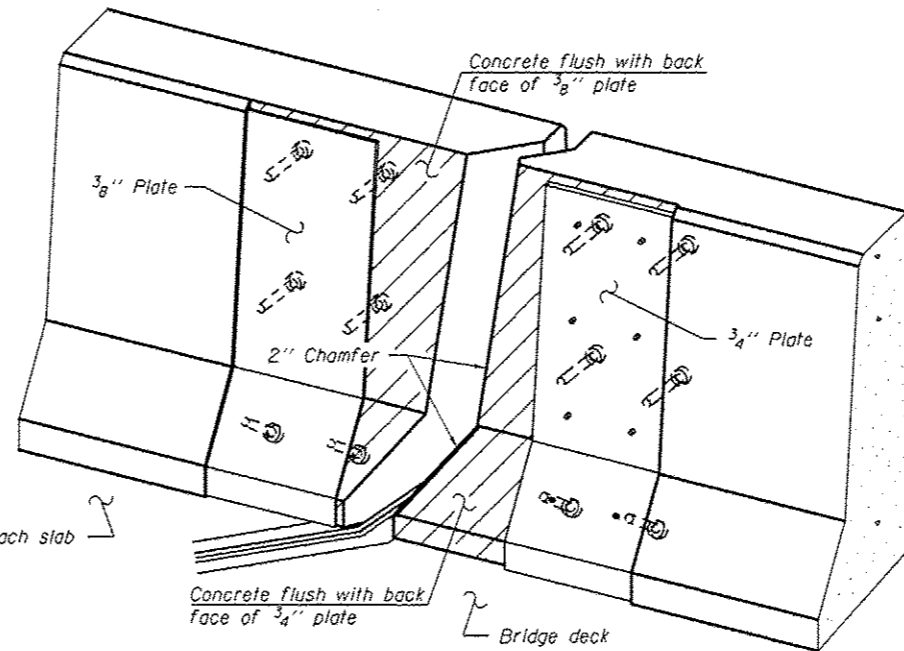
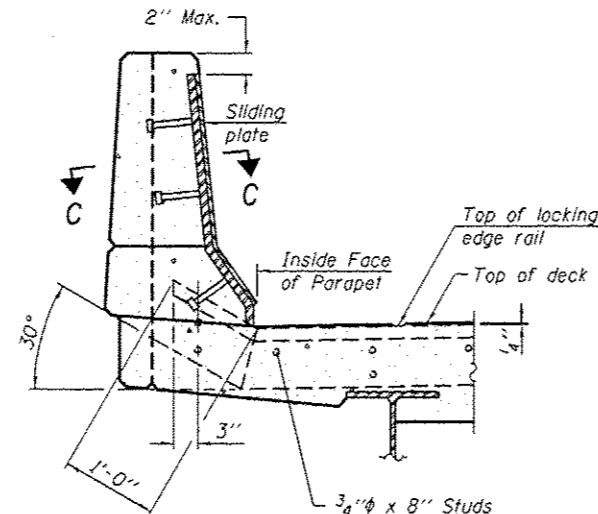
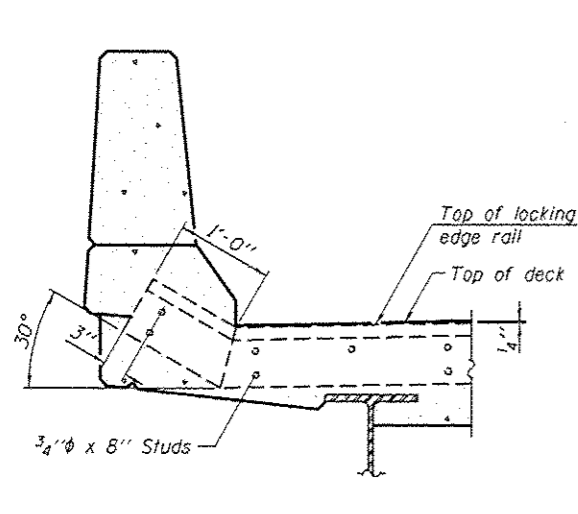
SUPERSTRUCTURE DETAILS  
SN 037-0003 & 0004

SHEET NO. 4 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	137-1HBRM	HENRY	27	23
CONTRACT NO. 64E94			ILLINOIS FED. AID PROJECT	

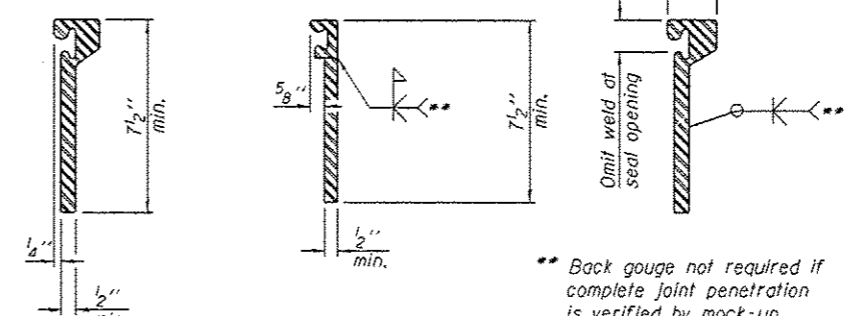
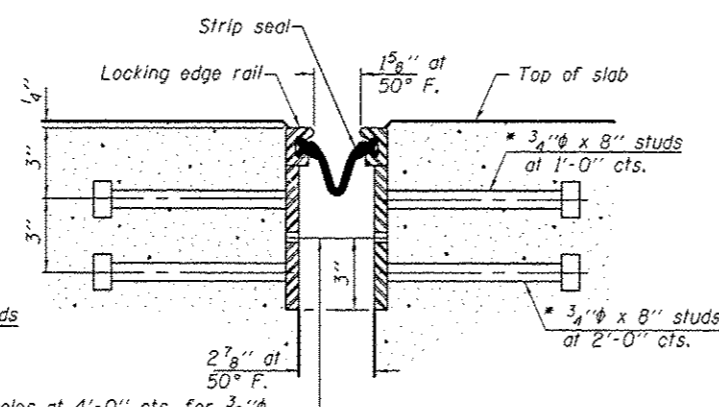
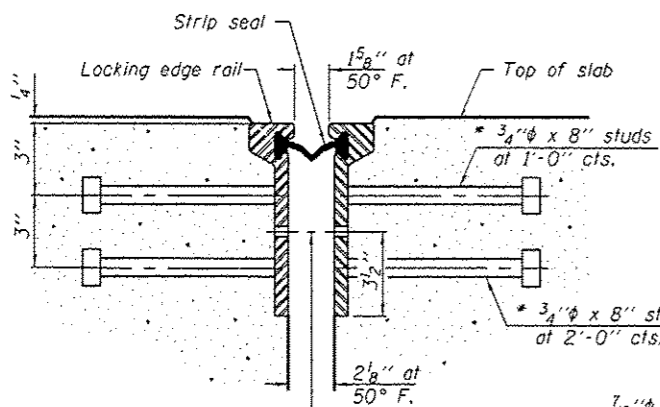


**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**  
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**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.



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

**LOCKING EDGE RAIL SPLICE**  
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	366

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.

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

EJ-SSJ

1-27-12

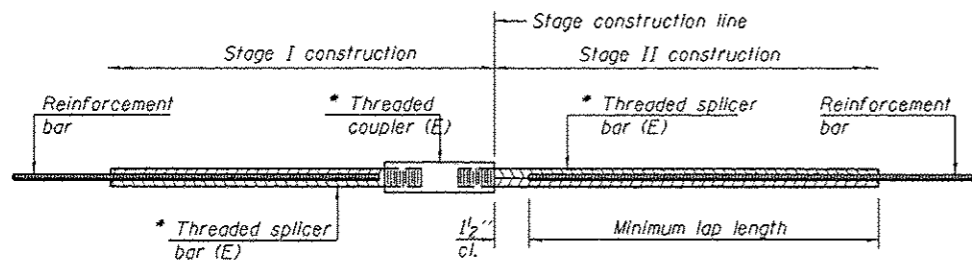
DESIGNED GGE	EXAMINED	DATE MARCH 6, 2014
CHECKED VHV	PASSED	REVISED
DRAWN Kyle M. Steffen		REVISED
CHECKED GGE VHV		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

JOINT DETAILS  
SN 037-0003 & 0004  
SHEET NO. 5 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	137-THRM	HENRY	27	24
CONTRACT NO. 64E94				
ILLINOIS FED. AID PROJECT				





**STANDARD BAR SPLICER ASSEMBLY**

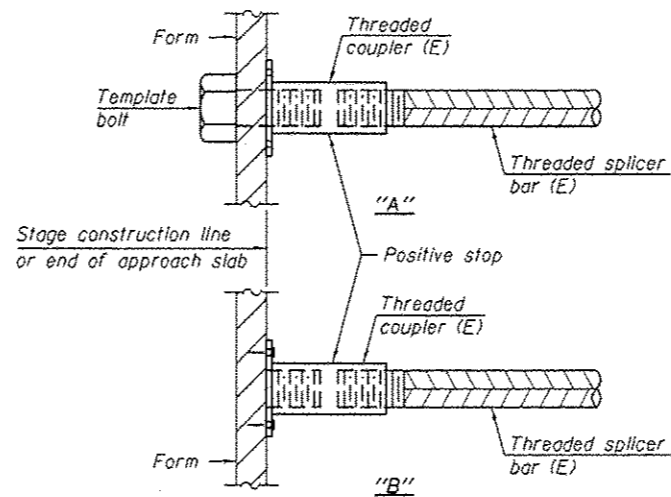
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

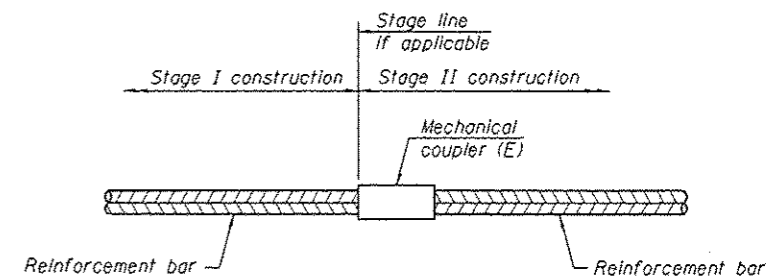
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutments	#6	16	3
Deck Ends	#5	96	3



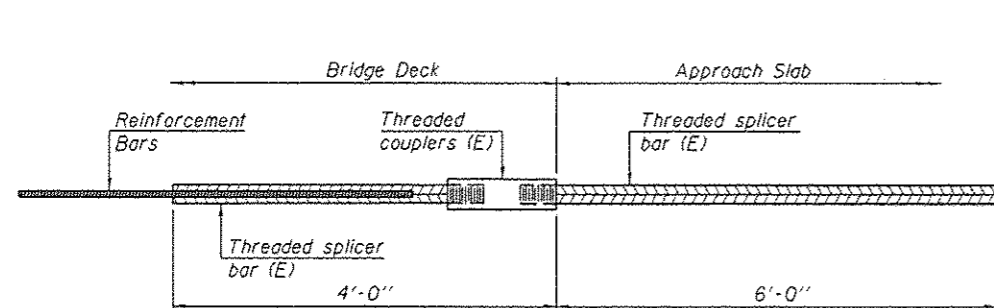
**INSTALLATION AND SETTING METHODS**

"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.



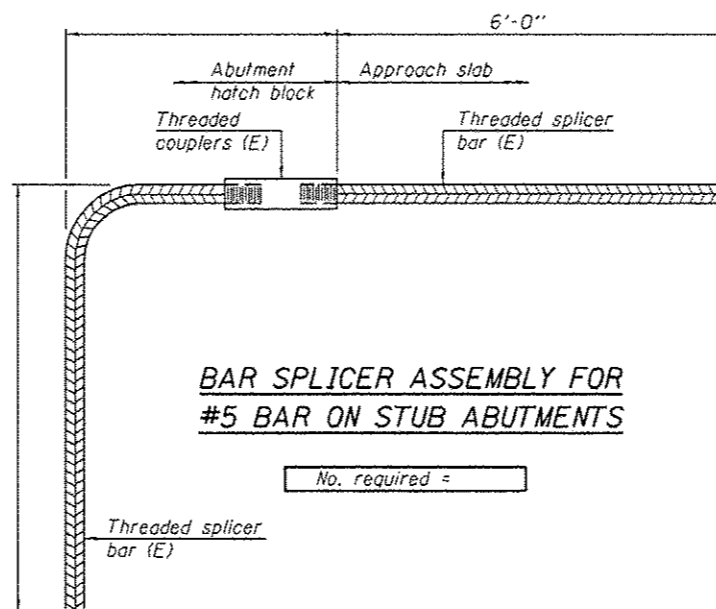
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. 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 1-27-12

DESIGNED GGE  
 CHECKED VHV  
 DRAWN Kyle M. Steffen  
 CHECKED GGE VHV

EXAMINED  
 PASSED  
 Timothy A. [Signature]  
 ACTING ENGINEER OF BRIDGE AND STRUCTURES  
 [Signature]  
 ACTING ENGINEER OF BRIDGE AND STRUCTURES

DATE MARCH 6, 2014  
 REVISED  
 REVISED

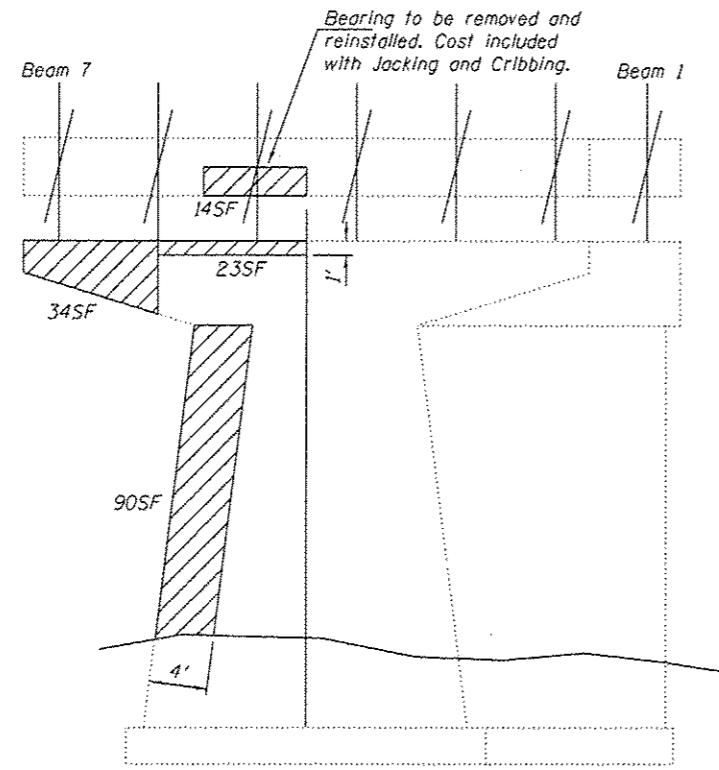
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS  
 SN 037-0003 & 0004

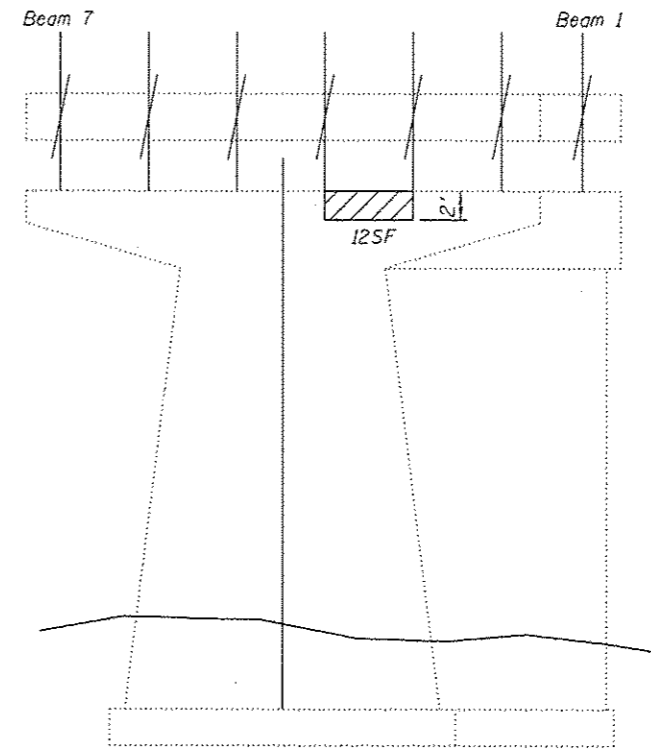
SHEET NO. 6 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	137-THBRM	HENRY	27	25

CONTRACT NO. 64E94  
 ILLINOIS FED. AID PROJECT

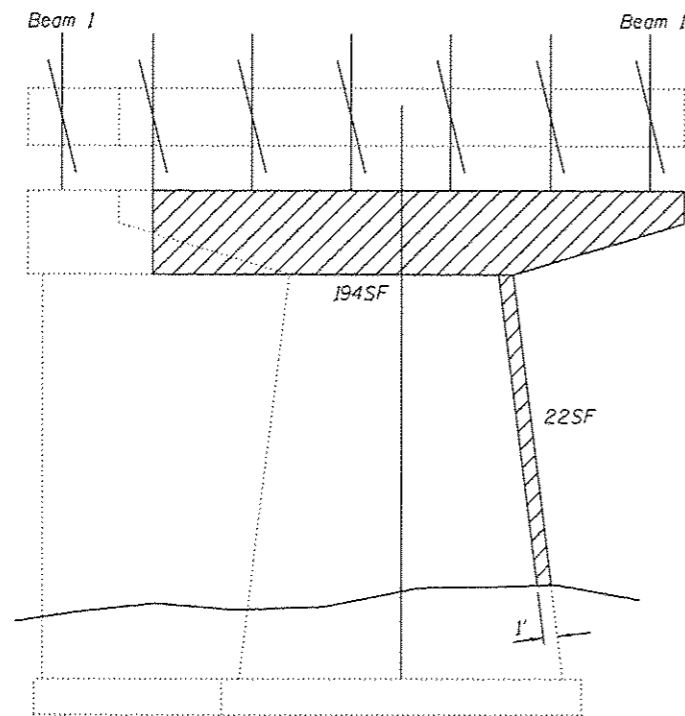


**PIER 3**  
(Looking West)

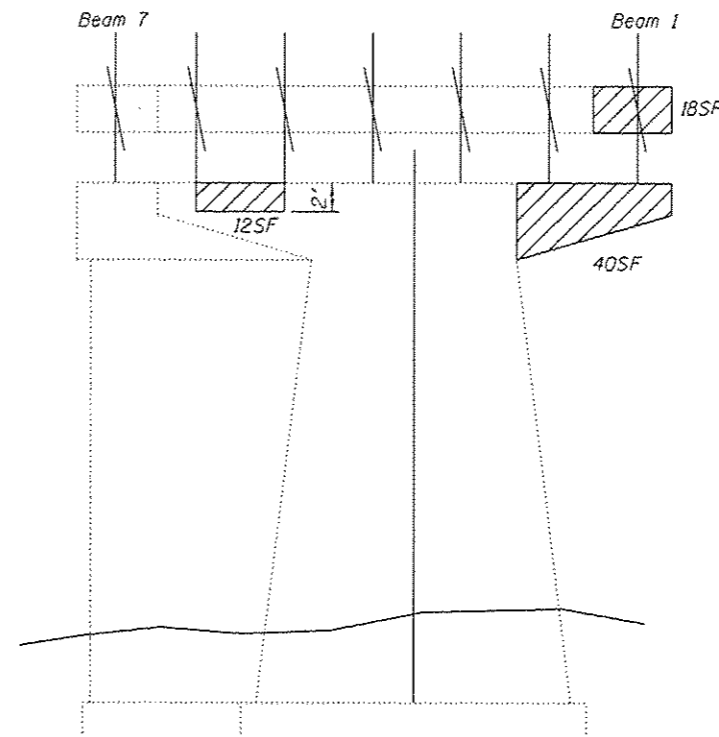


**PIER 4**  
(Looking West)

$Q$	(k)	20.7
$L$	(k)	32.8
Imp.	(k)	9.0
Total	(k)	62.5



**PIER 3**  
(Looking East)



**PIER 4**  
(Looking East)

- Structural Repair of Concrete, Depth  $\leq$  5"

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete, Depth $\leq$ 5"	Sq. Ft.	459
Temporary Shoring and Cribbing	Each	1

DESIGNED GGE  
CHECKED VHV  
DRAWN Kyle M. Steffen  
CHECKED GGE VHV

EXAMINED  
PASSED  
ACTING ENGINEER OF STRUCTURAL SERVICES  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

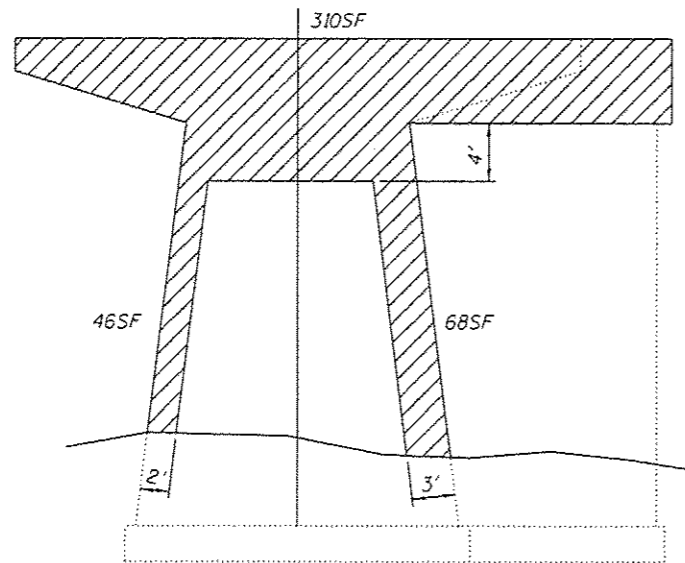
DATE MARCH 6, 2014  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

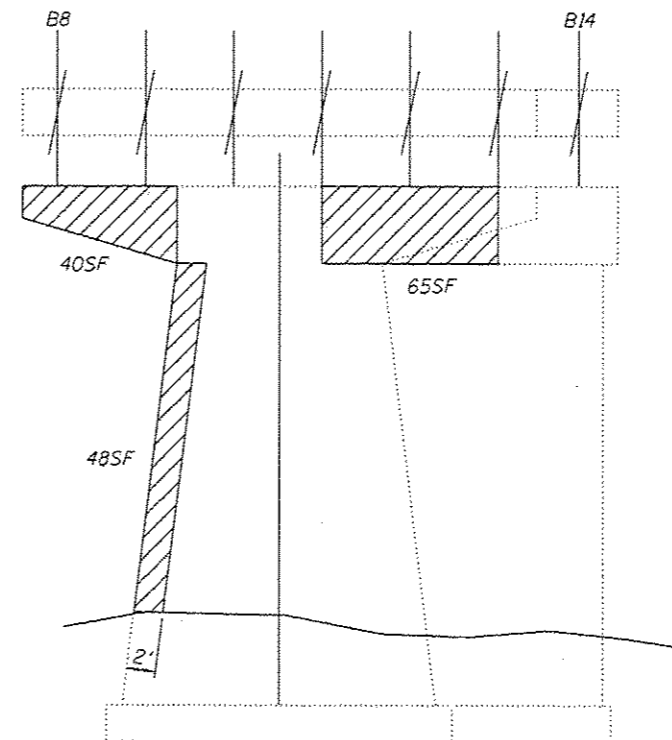
PIER REPAIR DETAILS  
SN 037-0004

SHEET NO. 7 OF 8 SHEETS

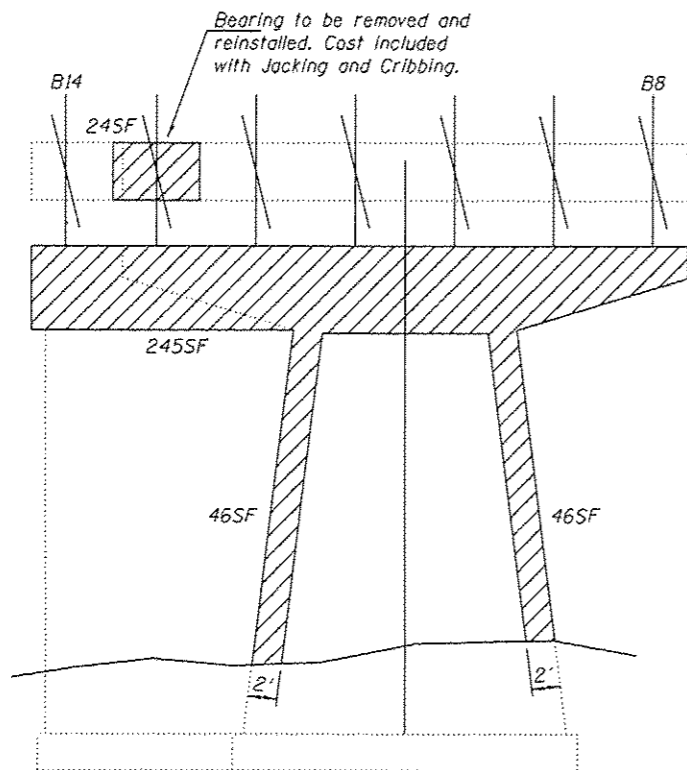
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	137-14BRM	HENRY	27	26
				CONTRACT NO. 64E94
ILLINOIS FED. AID PROJECT				



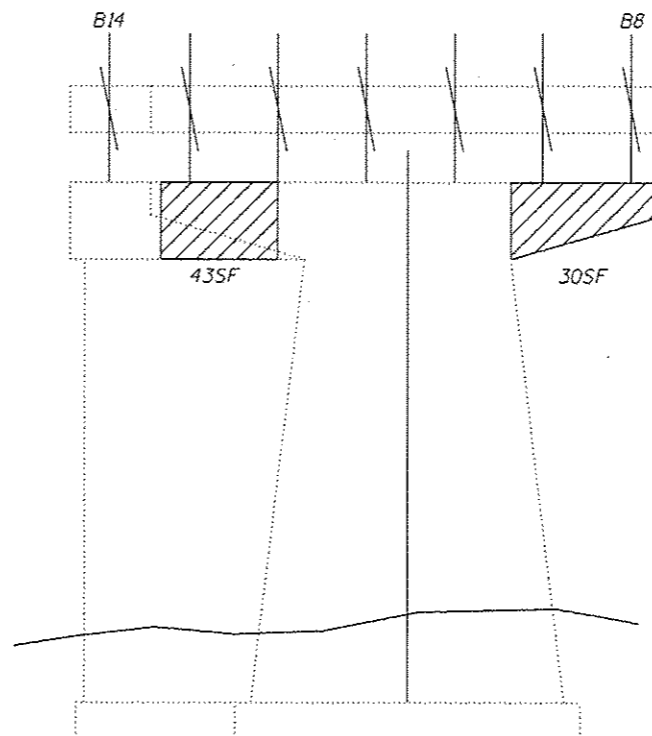
**PIER 10**  
(Looking East)



**PIER 12**  
(Looking East)



**PIER 10**  
(Looking West)



**PIER 12**  
(Looking West)

Q	(k)	18.7
L	(k)	30.2
Imp.	(k)	9.0
Total	(k)	57.5

- Structural Repair of Concrete, Depth ≤ 5"

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete, Depth ≤ 5"	Sq. Ft.	1011
Temporary Shoring and Cribbing	Each	1

DESIGNED GGE  
CHECKED VHV  
DRAWN Kyle M. Steffen  
CHECKED GGE VHV

EXAMINED  
PASSED  
ACTING ENGINEER OF STRUCTURAL SERVICES  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 6, 2014  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS  
SN 037-0003

SHEET NO. 8 OF 8 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	137-140R14	HENRY	27	21
CONTRACT NO. 64E94			ILLINOIS FED. AID PROJECT	