

11-04-2016 LETTING ITEM 043

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

\* 13 + 2 = 15 TOTAL SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-5HB-2)BP	HENRY	13	1
ILLINOIS CONTRACT NO. 64L49				

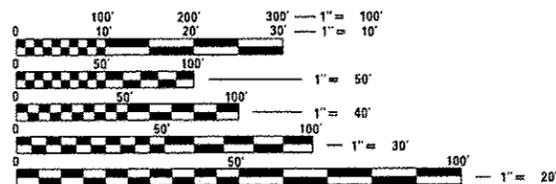
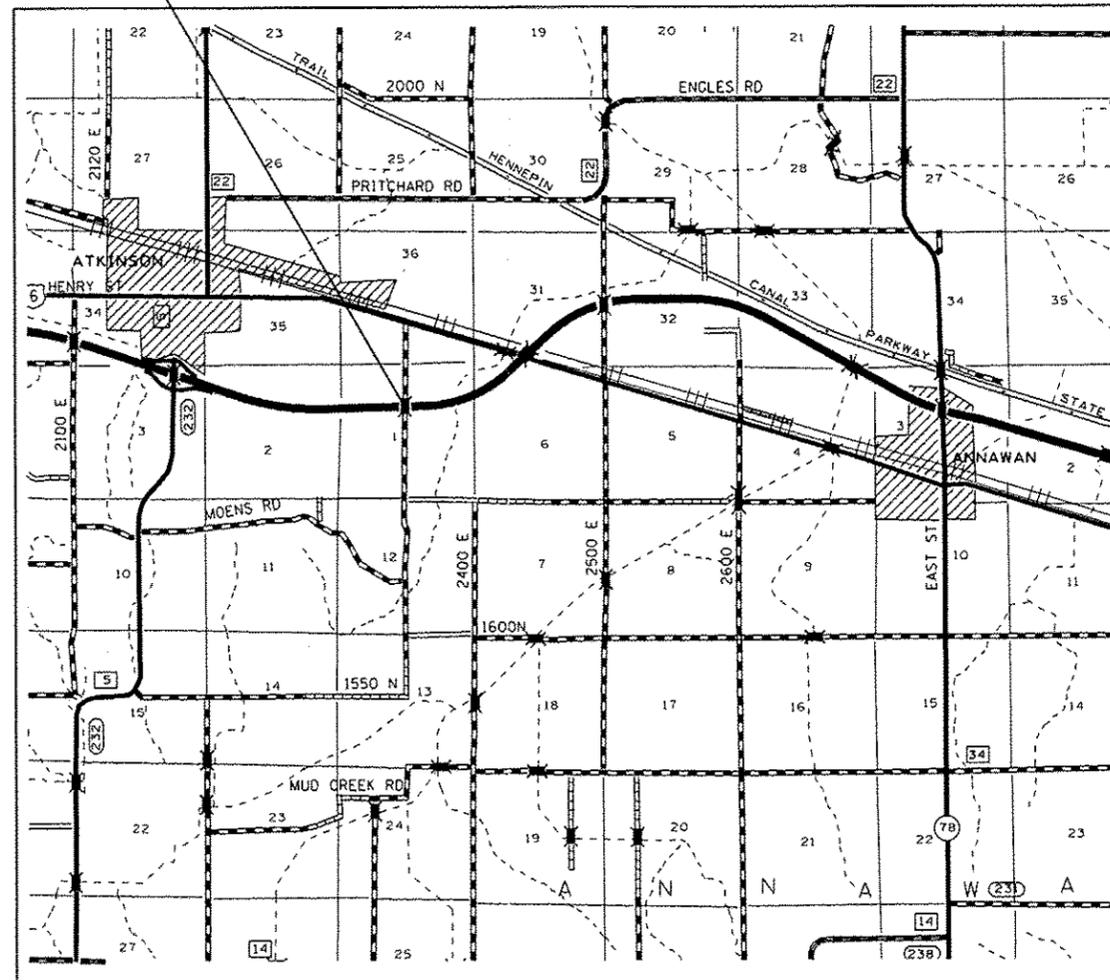
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

**PROPOSED  
HIGHWAY PLANS**

F.A.I. ROUTE 80 (I-80)  
SECTION (37-5HB-2)BP  
TYPE of IMPROVEMENT: BRIDGE PAINTING  
HENRY COUNTY

C-92-083-16

SN 037-0116



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

CONTRACT NO. 64L49

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 8-4-2016  
*R. Marshall*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Sept 30 2016  
*Muhammad M. Addis, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 2016  
*Omer Osman, P.E.*  
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
- 3 GENERAL NOTES
- 4 SUMMARY OF QUANTITIES
- 5-6 TRAFFIC CONTROL PLAN FOR SN 037-0116
- 7-9 TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
- 10 PAINTING DETAILS (DIST STD 44.1)
- 11-13B EXISTING PLANS FOR SN 037-0116

# STATE STANDARDS

- 701006-05 OFF-ROAD OPERATIONS, 2L,2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-09 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-11 LANE CLOSURE, FREEWAY/EXPRESSWAY WITH BARRIER
- 701426-08 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
- 701901-05 TRAFFIC CONTROL DEVICES
- 704001-08 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)

FILE NAME =	USER NAME = drossdd	DESIGNED -	REVISED - 8-18-2014 DD	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS &amp; STATE STANDARDS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Henry\64L49 Full Cleaning &	Painting 037-0116\CADD\02-11\cover.dgn	DRAWN -	REVISED -			80	037-54B-21BP	HENRY	13	2
Default	PLOT SCALE * 100.0000' / 1" =	CHECKED -	REVISED -			CONTRACT NO. 64L49		ILLINOIS FED. AID PROJECT		
	PLOT DATE * Jun-21-2016 09:40:43 AM	DATE -	REVISED -	SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____	TO STA. _____			

# GENERAL NOTES

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 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:

**ELECTRIC:**

AMEREN IP  
ATTN: PATTI WEDELL (309) 345-5173  
1824 KNOX HWY 9  
GALESBURG, IL 61401

**TELEPHONE:**

GENESEO TELEPHONE CO.  
ATTN: MATT STORM (309) 944-8012  
111 EAST 1ST STREET  
GENESEO, IL 61254

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.

A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS, SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE SSPC OP1 & OP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CLEANING AND PAINTING STEEL BRIDGE NO. 1.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CLEANING AND PAINTING STEEL BRIDGE NO. 1.

MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE CLEANING AND PAINTING STEEL BRIDGE NO. 1.

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.

RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

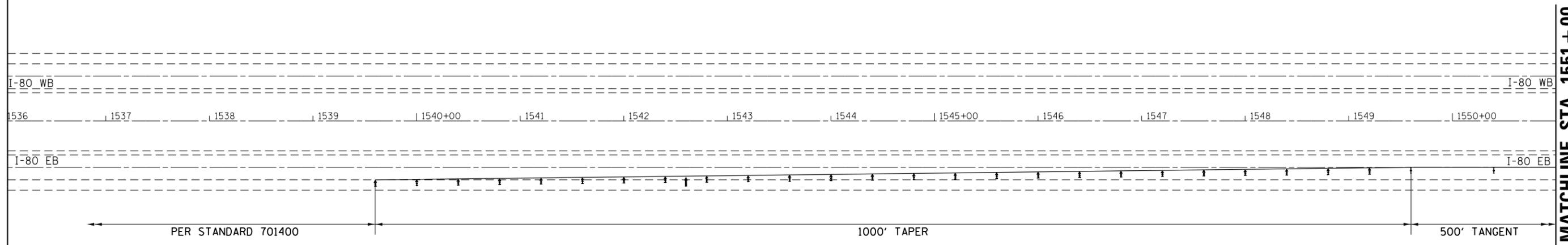
WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

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 WITHIN 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.

FILE NAME =	USER NAME = doasdd	DESIGNED -	REVISED - 8-18-2014 DD	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Doas\Henry\64L49 Full Cleaning &	Painting 037-0116\CAD\D2-shr-cover.dgn	DRAWN -	REVISED -			80	(37-5HB-2)BP	HENRY	13	3	
Default	PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -			CONTRACT NO. 64L49					
	PLOT DATE = Jun-21-2016 00:40:50 AM	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____					



# TRAFFIC CONTROL PLAN FOR SN 037-0116



### 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
- Monodirectional barrier wall/guardrail marker
- Impact attenuator

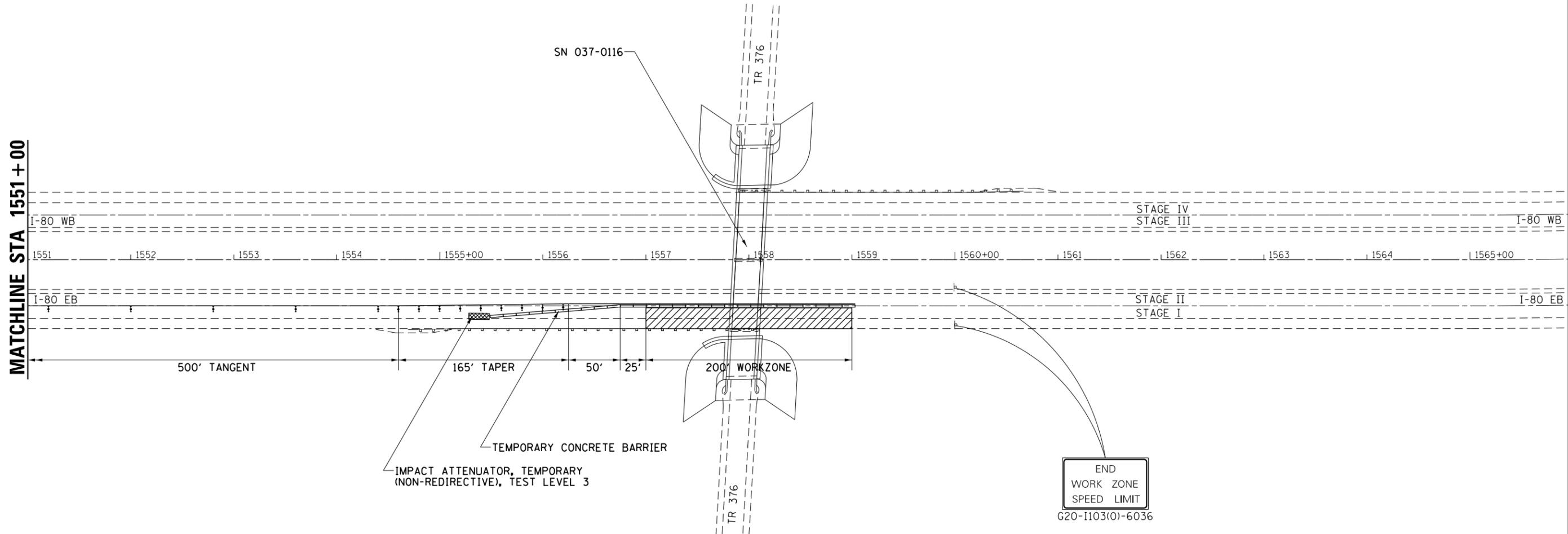
### NOTES

- ① Refer to State Standards 701400, 701401, 701402 and 704001.
- ② 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.

FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN FOR SN 037-0116</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Doss\Henry\64L49 Full Cleaning & Pointing 037-0116\CADD\02-sht-cover.dgn	DRAWN - _____	REVISED - _____	80			(37-5HB-2)BP	HENRY	13	5	
Default	PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64L49				
PLOT DATE = Jun-21-2016 08:41:00 AM	DATE - _____	REVISED - _____	ILLINOIS FED. AID PROJECT							

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

# TRAFFIC CONTROL PLAN FOR SN 037-0116



### 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
- Monodirectional barrier wall/guardrail marker
- Impact attenuator

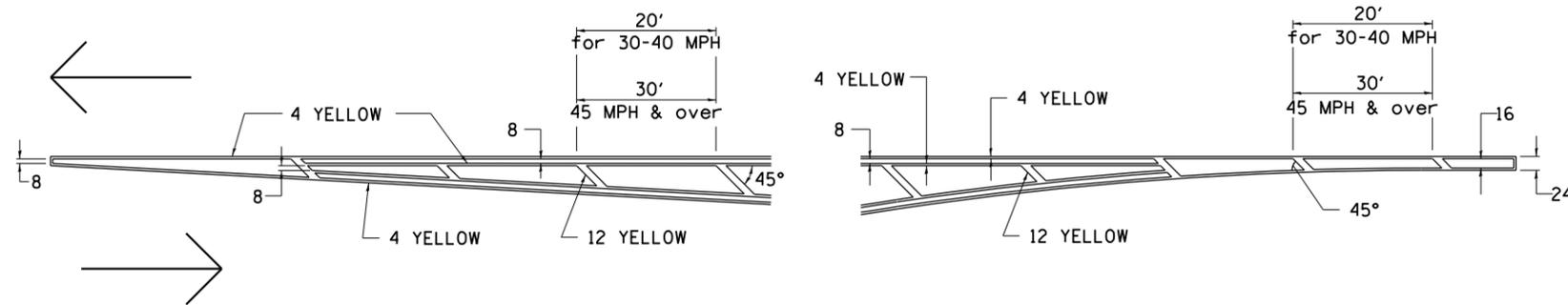
### NOTES

- ① Refer to State Standards 701400, 701401, 701402 and 704001.
- ② 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.

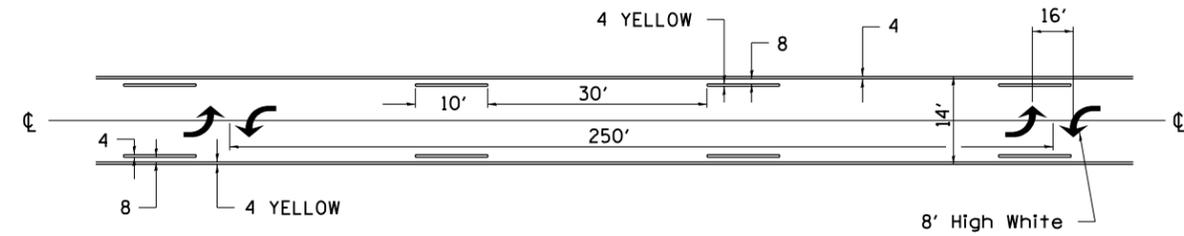
FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN FOR SN 037-0116</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
0:\BR\Doss\Henry\64L49 Full Cleaning & Pointing 037-0116\CADD\02-sht-cover.dgn	DRAWN - _____	REVISED - _____	REVISED - _____			80	(37-5HB-2/BP)	HENRY	13	6	
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64L49					
	PLOT DATE = Jun-21-2016 08:41:15 AM	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					

# TYPICAL PAVEMENT MARKINGS

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

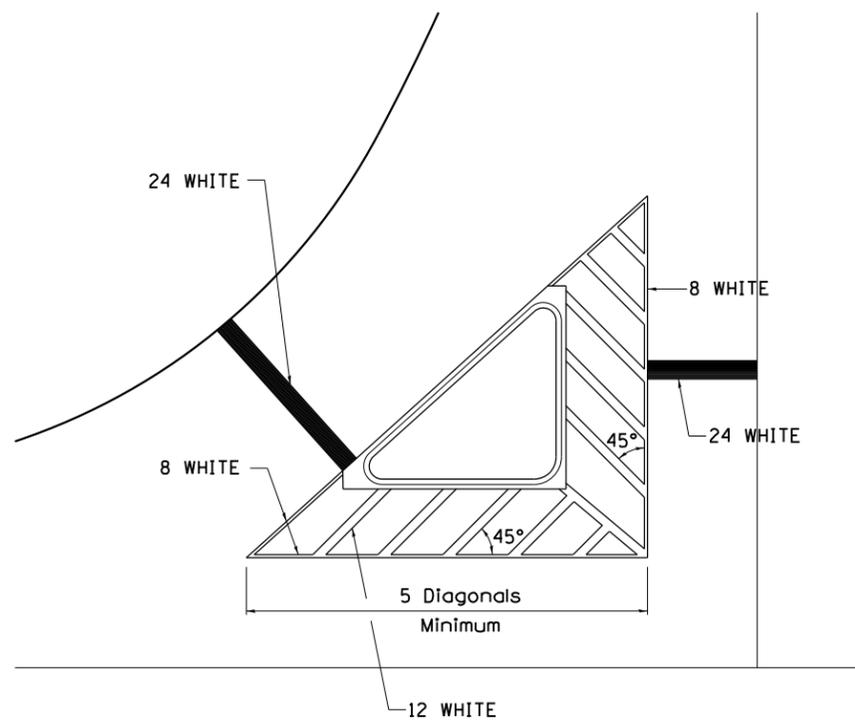


## MEDIAN PAVEMENT MARKING



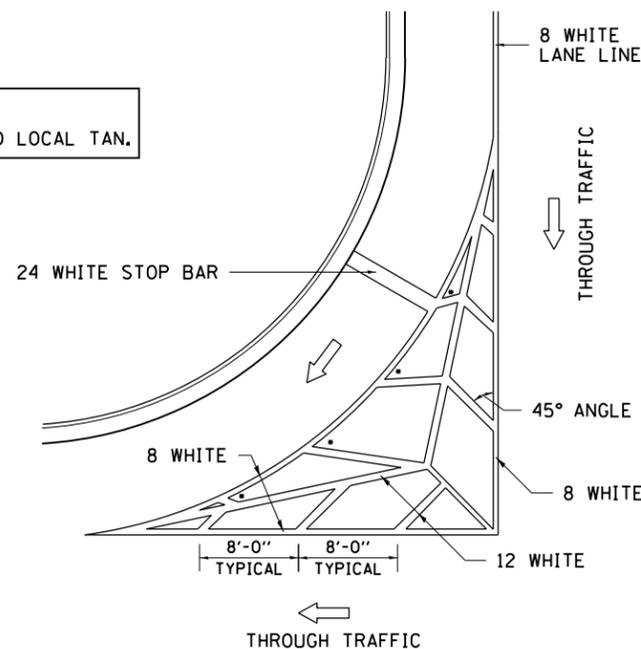
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



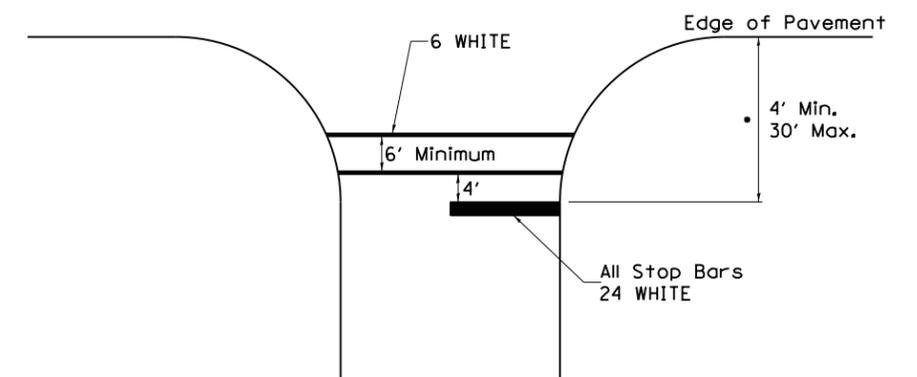
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## 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 - 6-27-14
D:\NBR\Draws\Henry\64L49 Full Cleaning & Painting 037-0116\CADD\02-sht-cover.dgn		DRAWN -	REVISED - 3-05-12
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

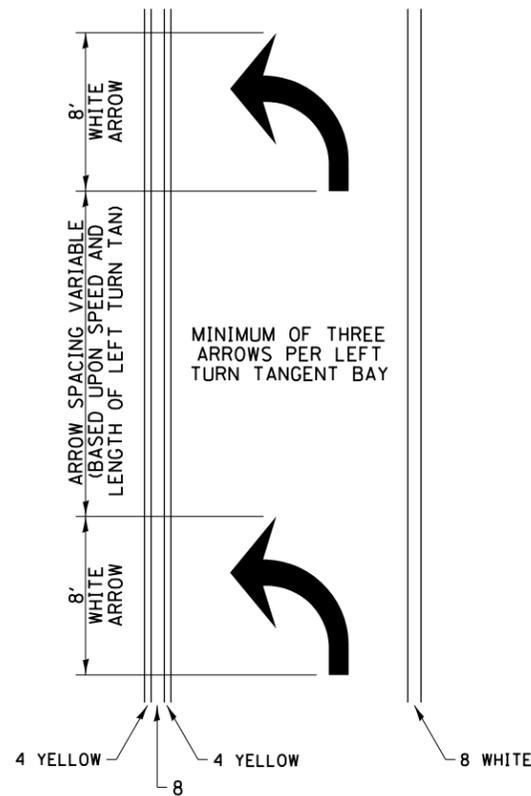
REGION 2 / DISTRICT 2 STANDARD

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-5HB-2)BP	HENRY	13	7
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L49	

# TYPICAL PAVEMENT MARKINGS

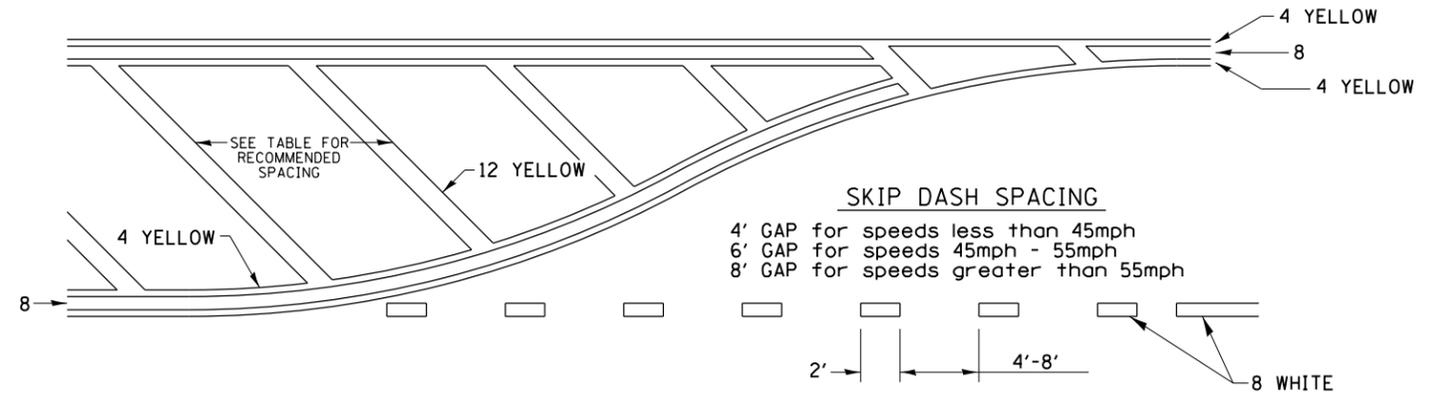
## ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

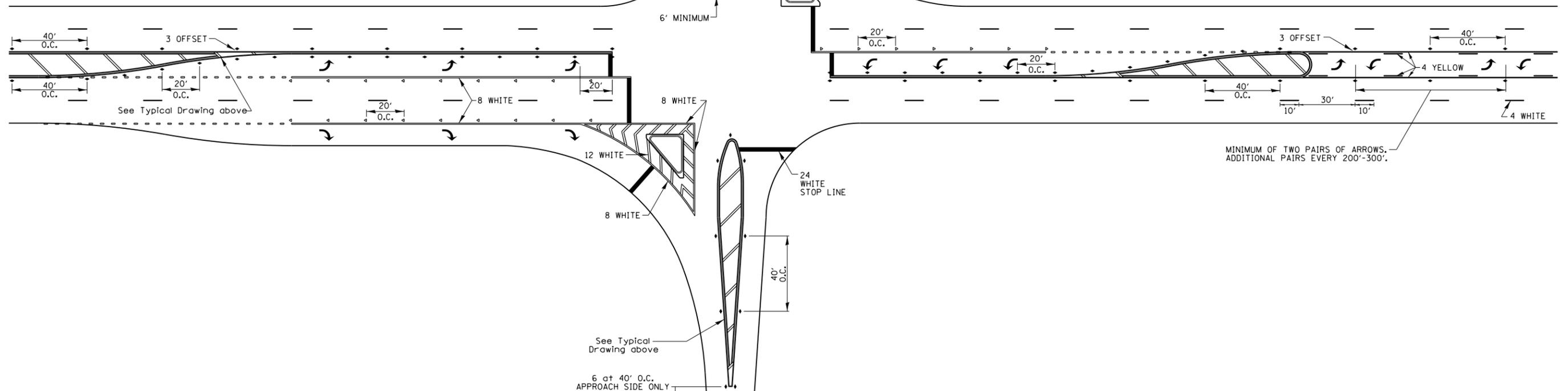
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### 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 - 6-27-14
D:\BRY\Draws\Henry\64L49 Full Cleaning & Painting 037-0116\CADD\02-sht-cover.dgn		DRAWN -	REVISED - 3-05-12
PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED -
PLOT DATE = Jun-21-2016 08:41:38 AM		DATE -	REVISED -

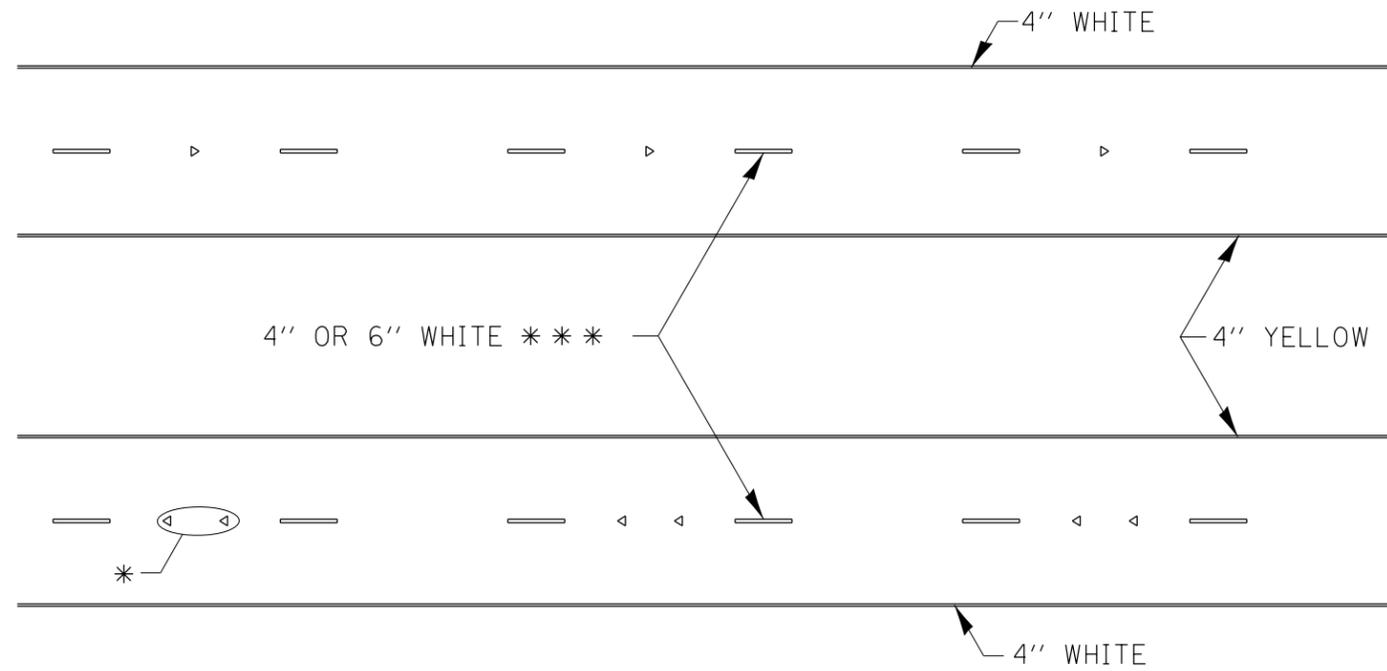
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

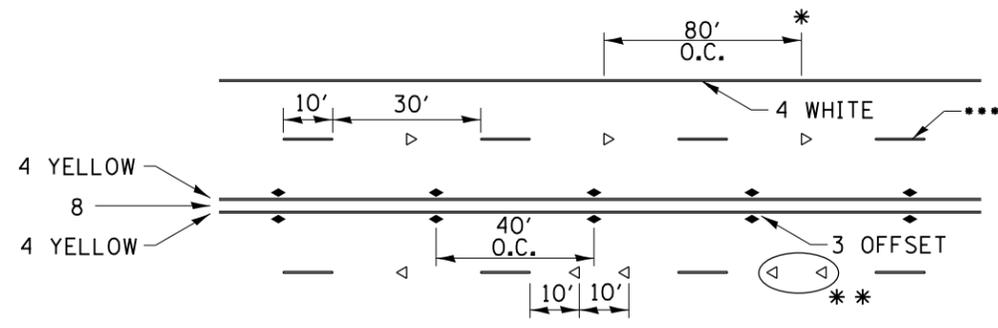
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-5HB-2)BP	HENRY	13	8
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L49	

# TYPICAL PAVEMENT MARKINGS



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

## MULTI-LANE / DIVIDED



\* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

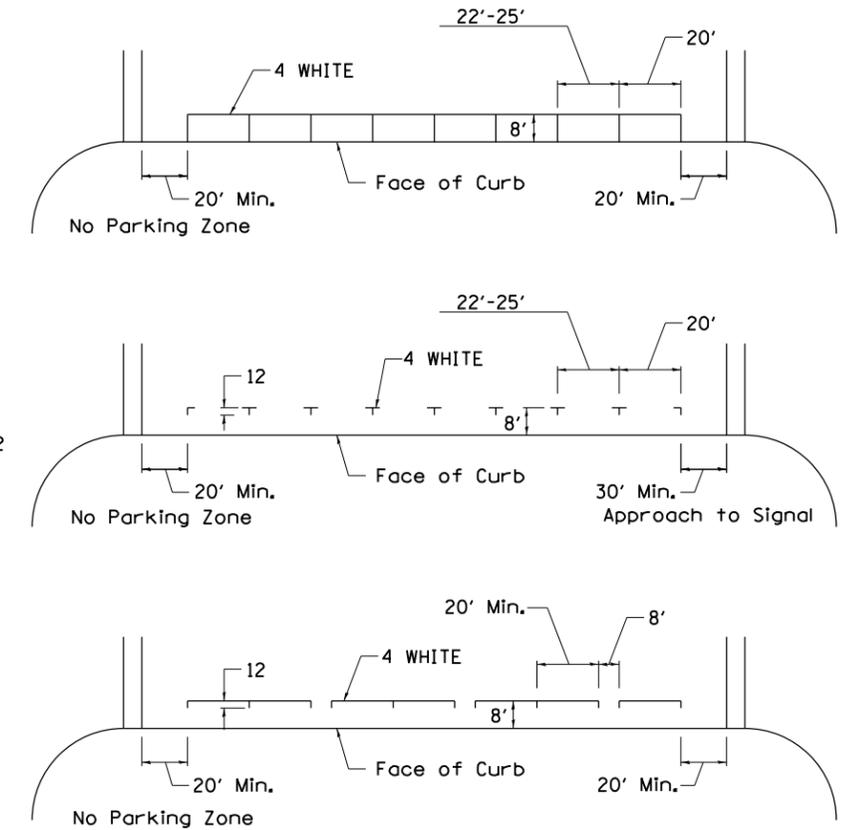
\*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000

\*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

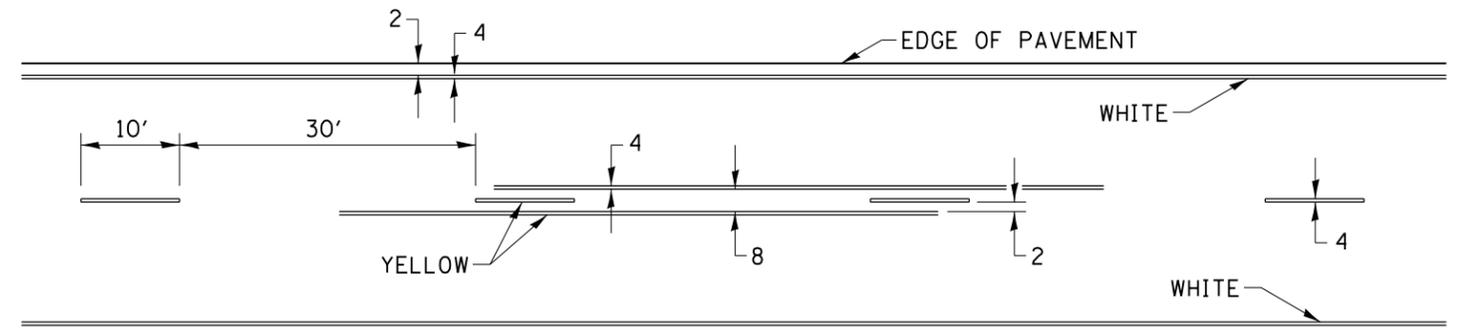
## MULTI-LANE / UNDIVIDED & ONE WAY

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

## TYPICAL PARKING SPACING



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



## SYMBOLS

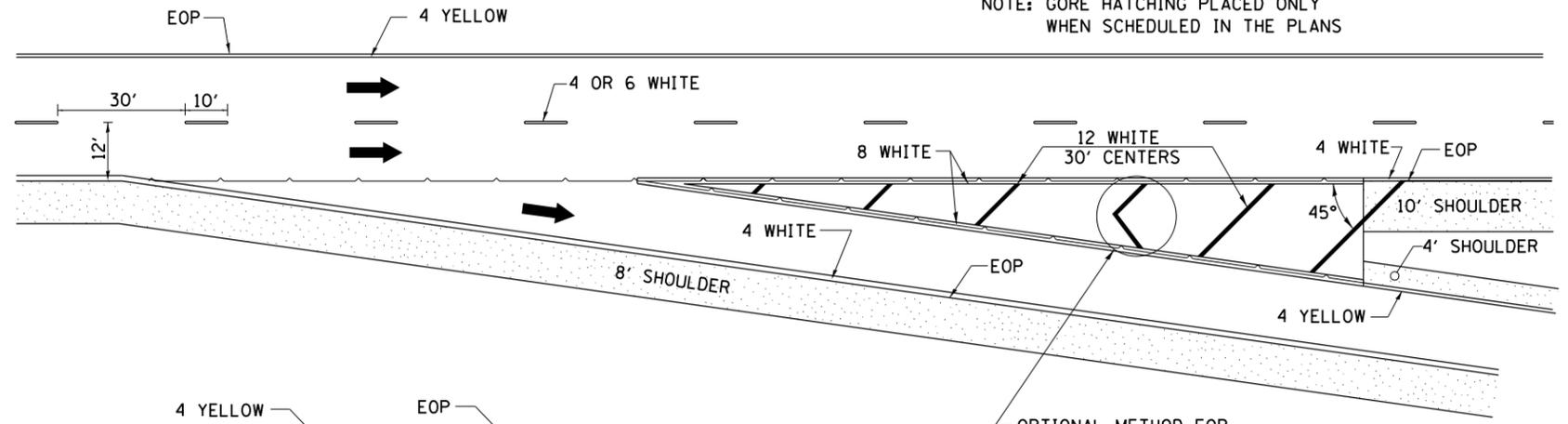
FILE NAME =	USER NAME = dssdd	DESIGNED -	REVISED - 6-27-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Henry\64L49 Full Cleaning & Painting 037-0116\CADD\02-sht-cover.dgn	DRAWN -	REVISED - 8-27-13	80					(37-5HB-2)BP	HENRY	13	9	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - 11-28-12	CONTRACT NO. 64L49									
PLOT DATE = Jun-21-2016 08:41:43 AM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									

# PAINING DETAILS

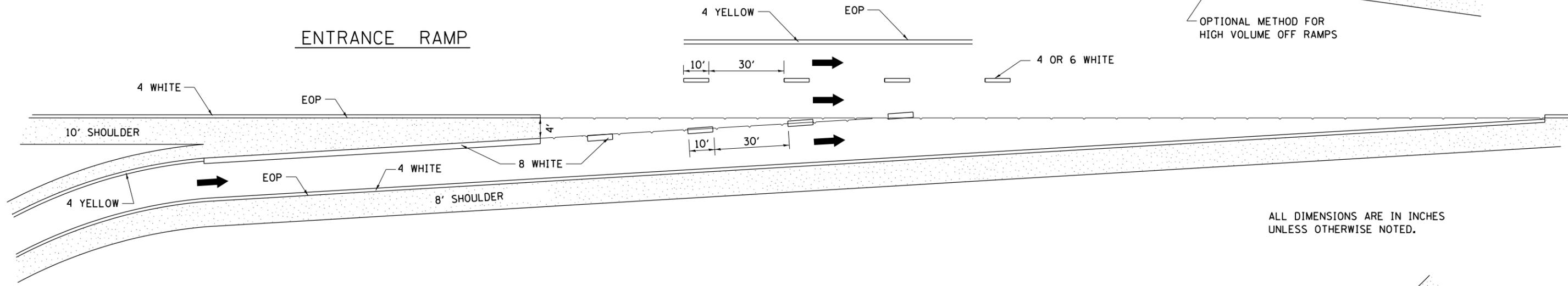
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

## EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

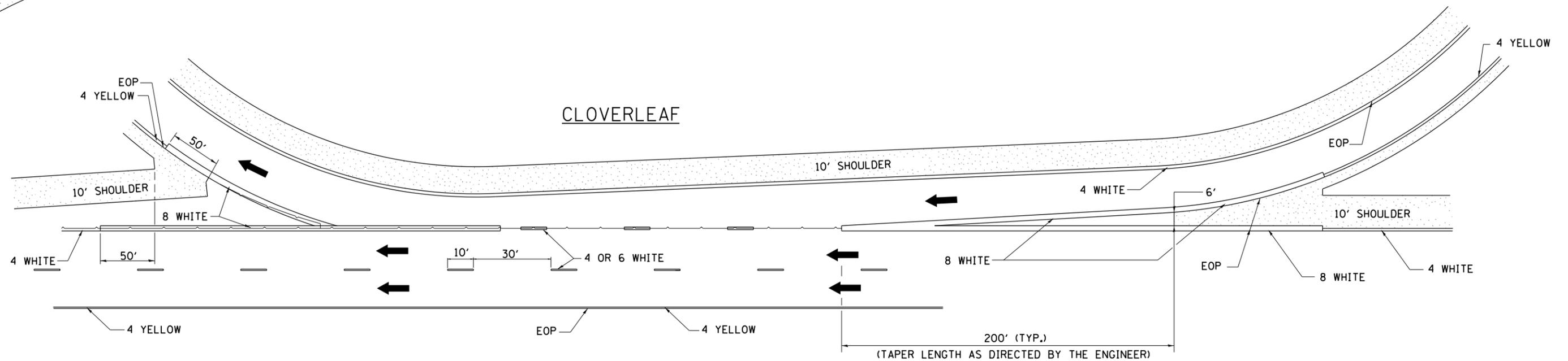


## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



FILE NAME = D:\BR\Bos\Henry\64L49 Full Cleaning & Painting 037-0116\CADD\02-sht-cover.dgn	USER NAME = dossdd	DESIGNED -	REVISED - 8-27-13
PLOT SCALE = 100.0000' / 1"		DRAWN -	REVISED - 10-18-11
PLOT DATE = Jun-21-2016 08:41:48 AM		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

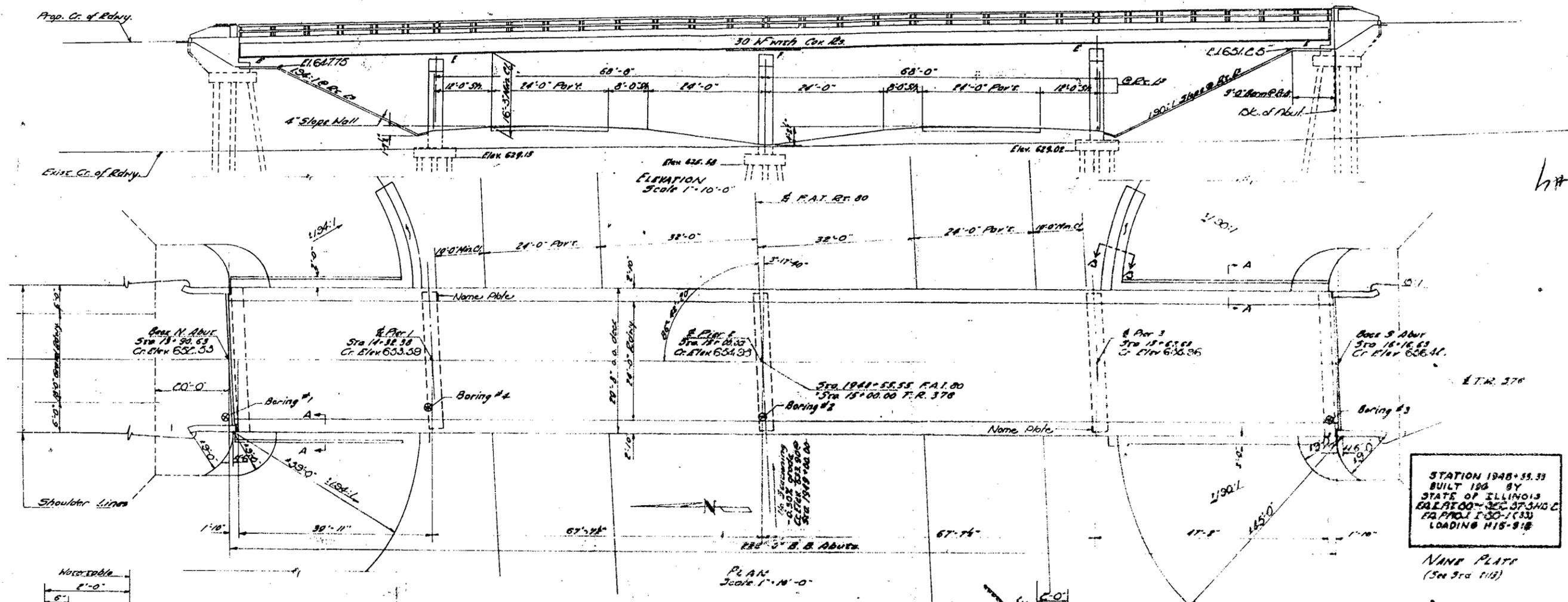
F.A.I. RTE. 80	SECTION (37-5HB-2)BP	COUNTY HENRY	TOTAL SHEETS 13	SHEET NO. 10
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L49	

037-0116

D.M. #38-Log screw in telephone pole 255' R.C.  
Sta 1948+20 - Elev 635.185

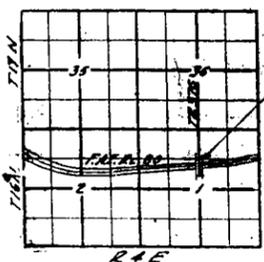
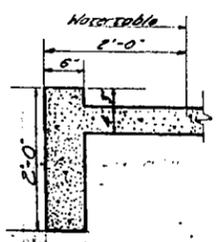
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
11-2-80	5HB-2	Henry	23	4
SHEETS				



STATION 1948+55.55  
BUILT 1908 BY  
STATE OF ILLINOIS  
EALATCOY-222-37340-C  
PA PROJ. I-30-1(33)  
LOADING H15-818

NAME PLATE  
(See 3rd 112)



LOCATION SKETCH

GENERAL NOTES

Class X Concrete shall be used throughout except in handrail and posts.  
Handrail concrete shall be placed in accordance with Article 5118 of the Standard Specifications.  
Slope walls shall be reinforced with welded wire fabric 6" x 6" mesh, #4 wires, spaced 24" x 24" on center.  
Railings shall be adjusted to true alignment after curbs have been poured.  
All rafters, joists, bearing plates, head plates, pinning and anchor bolts shall be fabricated and set in accordance with Article 5115 of the Standard Specifications and are included in the quantity of Structural Steel, Est. No. 6340 16a.  
Anchor bolts shall be set before riveting diaphragms over supports.  
Expansion joints shall be fabricated and erected in accordance with Article 5118 of the Standard Specifications.  
Expansion joints are included in quantity of Structural Steel, Est. No. 6340 16a.  
The concrete shall be placed in accordance with Article 5115 of the Standard Specifications and is included in the quantity of Concrete, Est. No. 6340 16a.  
The concrete shall be placed in accordance with Article 5115 of the Standard Specifications and is included in the quantity of Concrete, Est. No. 6340 16a.  
The concrete shall be placed in accordance with Article 5115 of the Standard Specifications and is included in the quantity of Concrete, Est. No. 6340 16a.

SECTION B-B  
Paved Ditch by Others  
TOTAL BILL OF MATERIAL

ITEM	SUPER	300	TOTAL
Class X Concrete	Cu. Yds.	177.6	177.6
Handrail Concrete	Cu. Yds.	2.3	2.3
Reinforcement Bars	Lbs.	30610	30610
Structural Steel	Lbs.	156,800	156,800
Neal Handrail	Lin. Ft.	448	448
Slope Wall	Sq. Yds.		519
Steel Pipe (B.B.P.36)	Lin. Ft.	1640	1640
Test Piles (B.B.P.36)	Each		2
Class A Exc. for Structures	Cu. Yds.		64
Name Plates	Each	2	2

PROFILE TR 376  
DESIGN STRESS  
R - 1400 psi Super  
vc - 75 psi Boxings  
fs - 20000 psi Reinf.  
fs - 18000 psi Struct.  
Loading H15-512-44

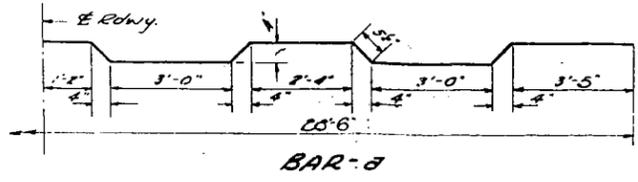
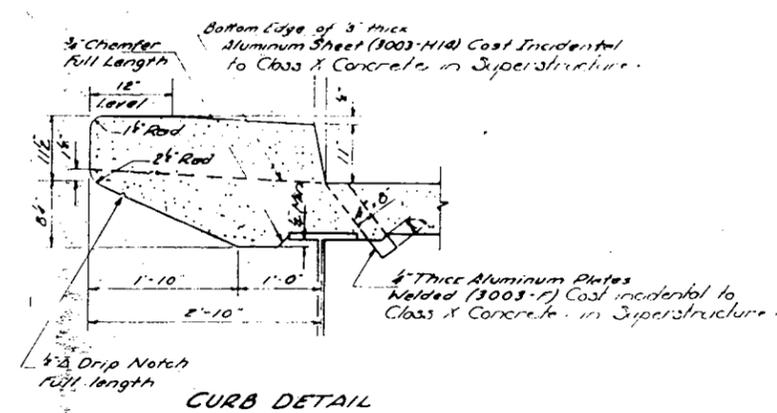
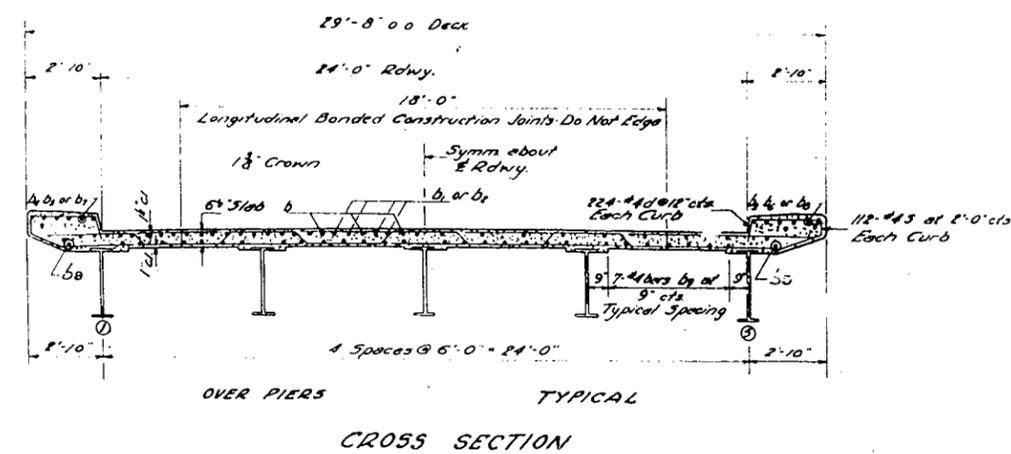
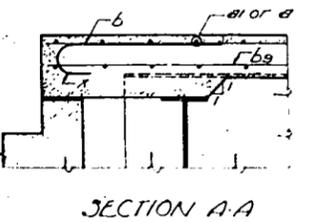
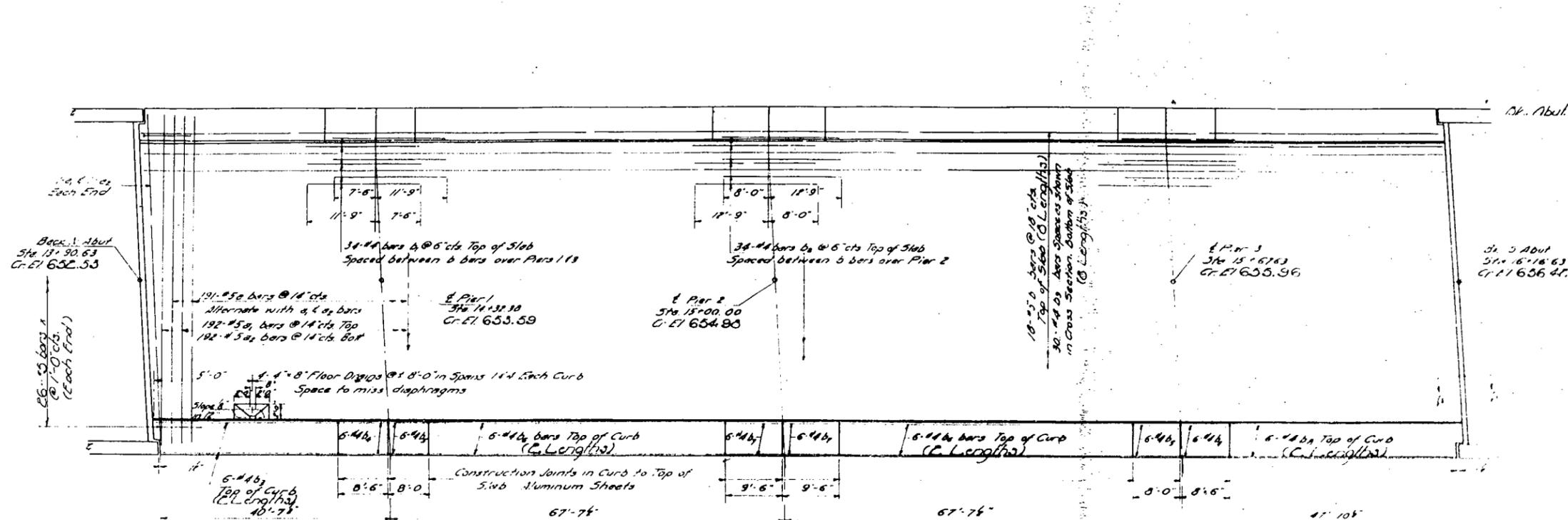
GENERAL PLAN & ELEVATION  
PAV. RT. 80 - ST. 37-5HB-2  
HENRY COUNTY

DESIGNED: *Jerry F. Cotta*  
CHECKED: *Jerry F. Cotta*  
DRAWN: *Ge. J. Brown*  
CHECKED: *Ge. J. Brown*  
EXAMINED: *W.E. Braumana*  
PASSED: *E. J. Smith*  
APPROVED: *R.W. Bartholomew*  
Nov. 16 1961

FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	37-5HB-2	Henry	23	5
SHEET NO. 2 8 SHEETS				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	181	#5	29'6"	—
a	194	#5	20'6"	—
a	194	#5	24'0"	—
b	144	#5	29'0"	—
b	60	#4	19'3"	—
b	34	#4	20'9"	—
b	24	#4	16'6"	—
b	24	#4	8'3"	—
b	24	#4	7'9"	—
b	40	#4	25'6"	—
b	24	#4	9'3"	—
b	24	#4	20'3"	—
b	240	#4	29'0"	—
d	448	#4	1'-0"	—
e	52	#5	4'-1"	—
x	224	#4	5'-1"	—
Reinforcement Bars		Lb	30420	
Structural Steel		Lb	156200	
Class X Concrete		Cu Yd	1776	

\* Number of Collars Remove Bottom plates, ... Bolts included as Structural Steel. 531 W4 = 6340 lbs

SUPERSTRUCTURE  
F.A.I. 80-52-37-5HB-2  
HENRY COUNTY  
STA. 1948+55.55

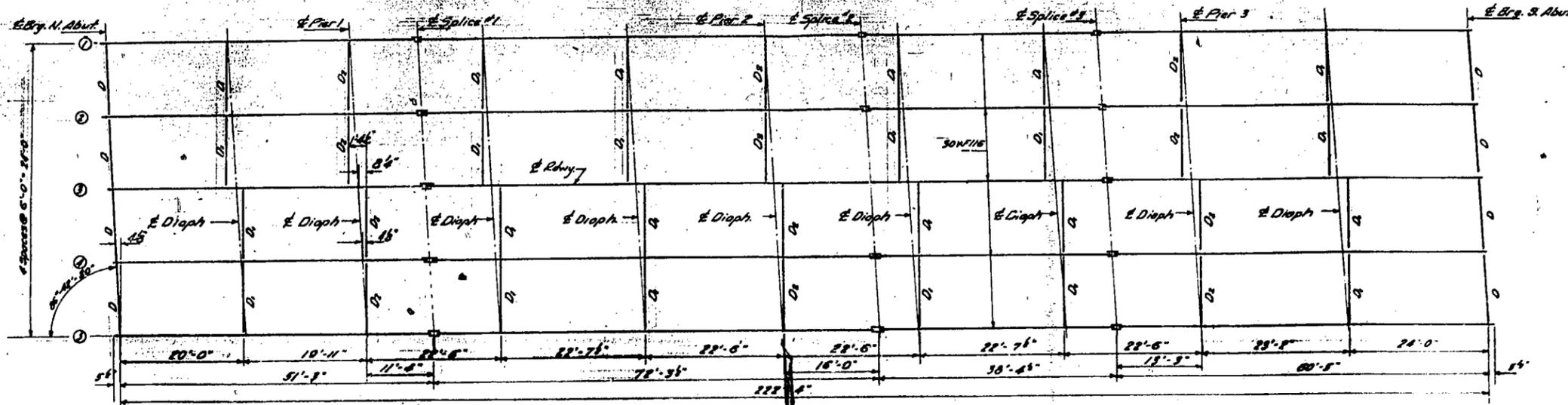
DESIGNED: *[Signature]*  
CHECKED: *[Signature]*  
DRAWN: *[Signature]*  
CHECKED: *[Signature]*

EXAMINED: *[Signature]*  
PASSED: *[Signature]*  
APPROVED: *[Signature]*

**FOR INFORMATION ONLY**

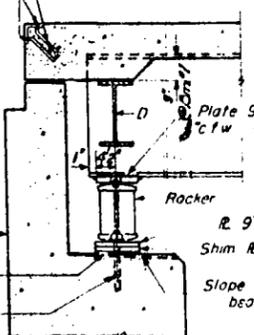
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
80	37-5NB-2	Henry	23	8
SHEET NO.		SHEETS		



FRAMING PLAN

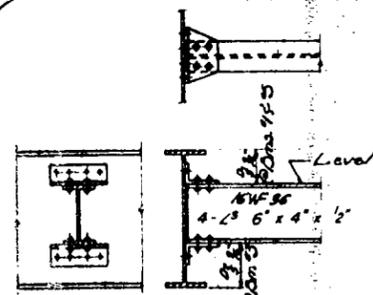
1/2" plates @ 12" c/w for 3/4" bolts. All bolts shall be turned, saved or clipped off flush with face of member after frame is erected.



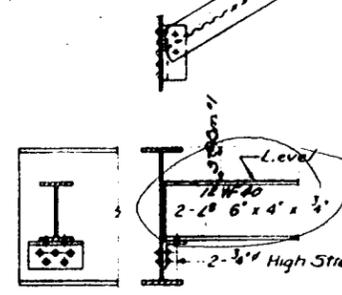
SECTION AT ABUTMENT

PIER 2

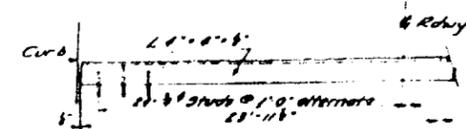
PIERS 1 & 3



DIAPHRAGM D, 4 D2



DIAPHRAGM D

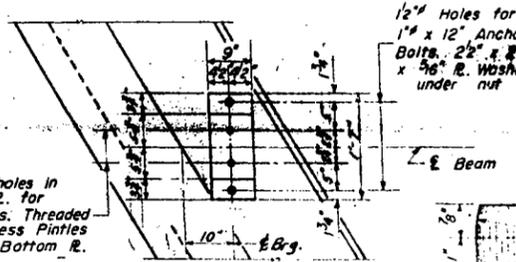


EXPANSION GUARD

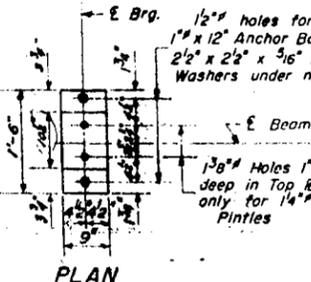
ELEVATION TOP OF BEAMS

LOCATION	1	2	3	4	5
E. Brg. N. Abut.	651.91	652.00	652.04	652.02	651.83
E. Pier 1	652.05	652.04	652.04	652.05	652.04
E. Splice #1	653.10	653.01	653.04	653.03	653.15
E. Pier 2	654.21	654.20	654.21	654.21	654.20
E. Splice #2	655.04	655.01	655.04	655.04	655.04
E. Splice #3	656.07	656.05	656.04	656.07	656.08
E. Pier 3	656.25	656.31	656.34	656.31	656.23
E. Brg. S. Abut.	655.74	655.63	655.66	655.63	655.76

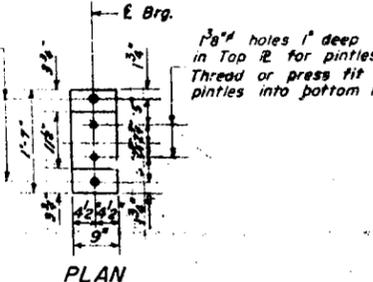
Note: All elevations are given on the top of the flange.



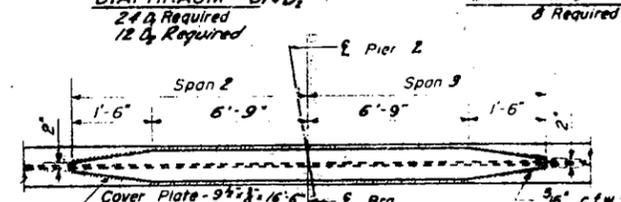
PLAN



PLAN

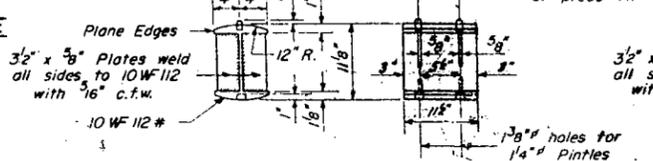


PLAN

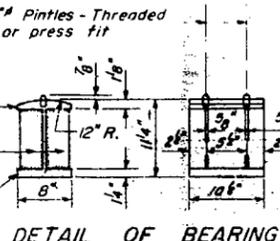


DETAIL OF COVER PLATES

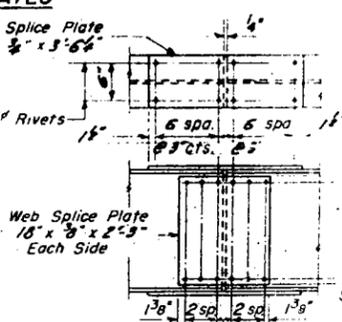
DETAIL OF PINTLE



DETAIL OF BEARING AT PIERS 1 & 3 AND ABUTMENT



DETAIL OF BEARING AT PIER 2



DETAIL OF WEB SPICE PLATE

TABLE OF 1/2" DIMENSIONS

LOCATION	1	2	3	4	5
N. Abut.	-	-	4"	3"	-
Pier 1	-	-	4"	4"	3"
Pier 2	-	-	4"	4"	4"
Pier 3	-	-	4"	-	-

DESIGNED: *Jerry F. Oster*  
CHECKED: *Jerry F. Oster*  
DRAWN: *W. A. Sausaman*  
CHECKED: *JF*

EXAMINED: *W. E. Baumann*  
PASSED: *E. J. Shultz*  
APPROVED: *R. D. Baumann*

STRUCTURAL STEEL  
F.A.I. Br. 80 - Sec. 37-5NB-2  
HENRY COUNTY  
Sta. 1948+55.55

FOR INFORMATION ONLY

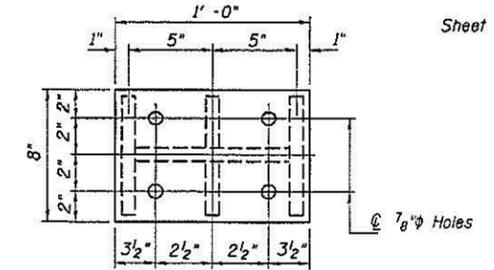
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	13	10
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FAI 80 & 74  
 (37-5HB-2 & 81-IHB)M  
 Henry & Rock Island Counties

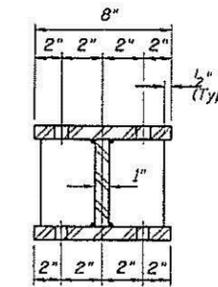
**BEAM REACTIONS**

RP	(K)	16.1
R <sub>L</sub>	(K)	30.1
Imp.	(K)	8.7
R (Total)	(K)	54.4

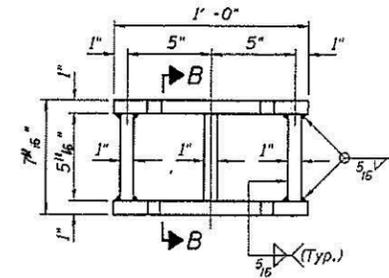
Notes:  
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
 New steel extensions, side retainers, shim plates, connection bolts, and anchor bolts are included with Furnishing and Erecting Structural Steel.  
 See Sheet 7 of 7 for Anchor Bolt installation.  
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.  
 Min. jack capacity = 25 Tons.



**PLAN TOP AND BOTTOM PLATE**



**SECTION B-B**



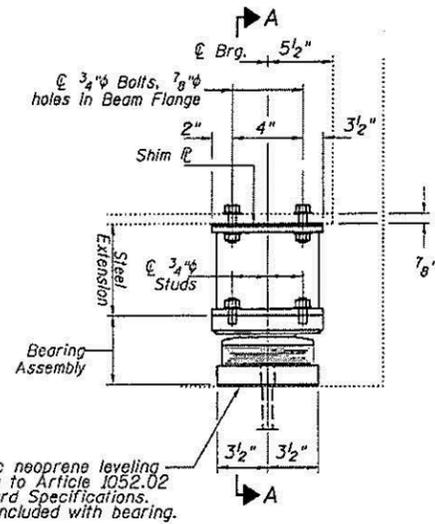
**STEEL EXTENSION DETAIL**

For existing bearing removal detail, see sheet 4 of 7

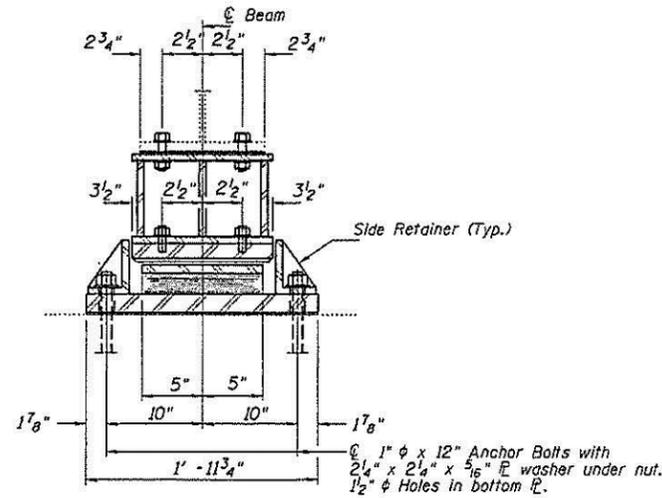
**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	735

South Abutment  
 Elastomeric Bearings  
 FAI Route 80 Section (37-5HB-2)M  
 Henry County  
 Structure No. 037-0116  
 TR 375N over Interstate 80

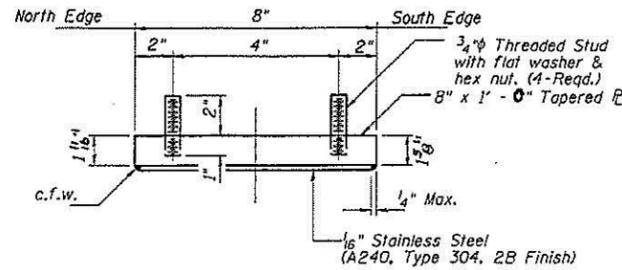


**ELEVATION AT SOUTH ABUTMENT**

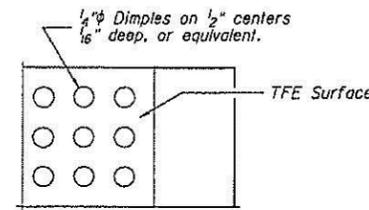


**SECTION A-A**

**TYPE II TFE ELASTOMERIC EXP. BRG.**



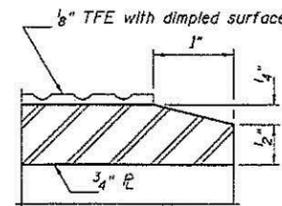
**TOP BEARING ASSEMBLY**



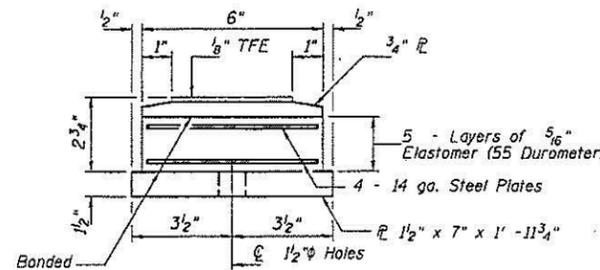
**PLAN-TFE SURFACE**

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

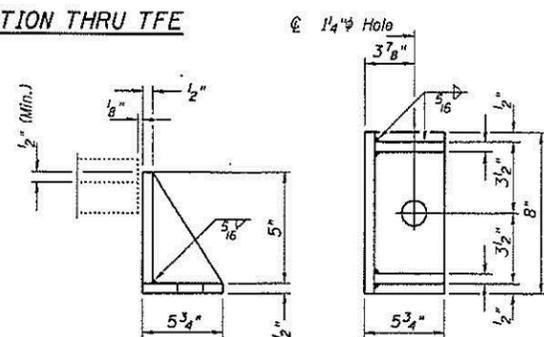
Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



**SECTION THRU TFE**

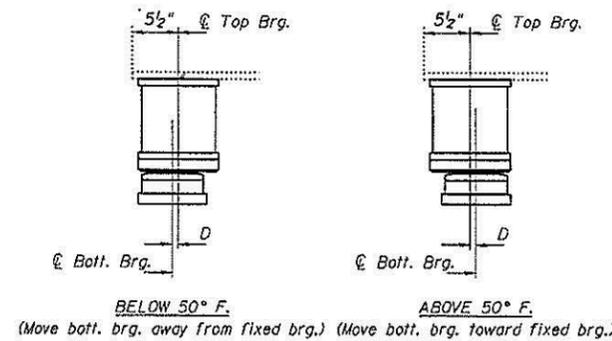


**BOTTOM BEARING ASSEMBLY**



**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**SETTING ANCHOR BOLTS AT EXP. BRG.**

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

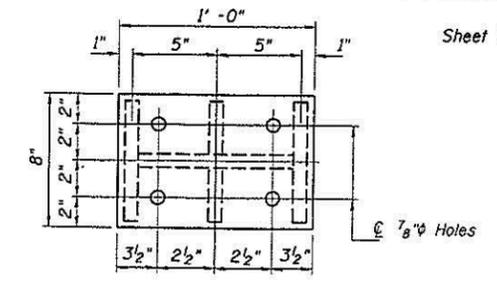
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	...	...	13	11
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

\* FAJ 80 & 74  
 \*\* (37-5HB-2 & 81-JHB)M  
 \*\*\* Henry & Rock Island Counties

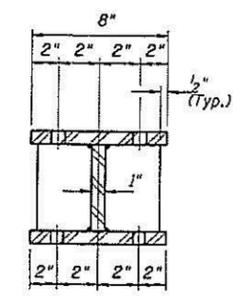
**BEAM REACTIONS**

R <sub>P</sub>	(K)	11.6
R <sub>E</sub>	(K)	28.7
Imp.	(K)	8.6
R (Total)	(K)	48.9

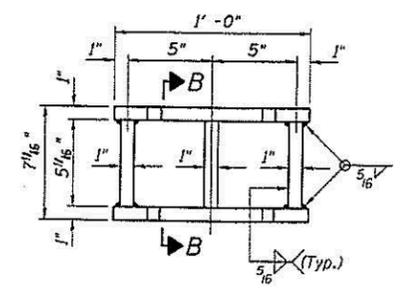
Notes:  
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
 New steel extensions, side retainers, shim plates, connection bolts, and anchor bolts are included with Furnishing and Erecting Structural Steel.  
 See Sheet of for Anchor Bolt installation.  
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.  
 Min. Jack capacity = 25 Tons.



**PLAN TOP AND BOTTOM PLATE**



**SECTION B-B**



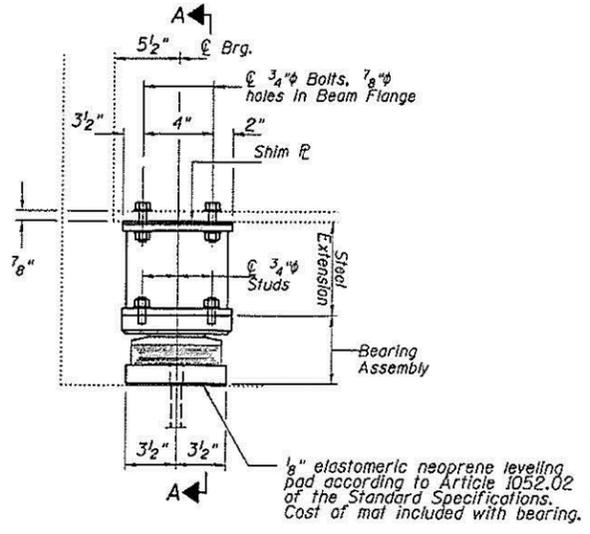
**STEEL EXTENSION DETAIL**

For existing bearing removal detail, see sheet 4 of 7

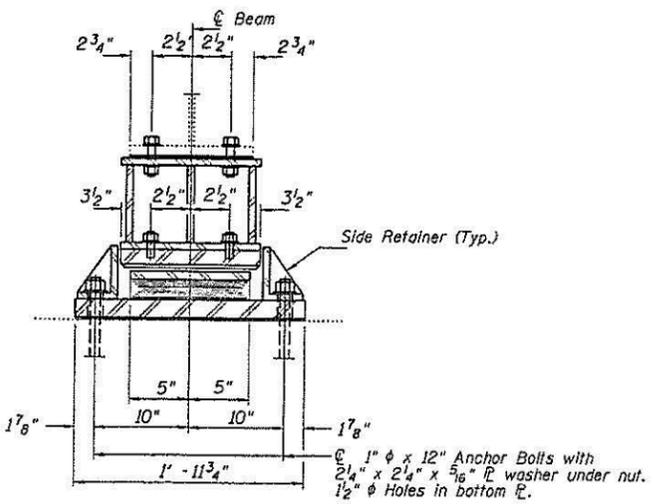
**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	735

North Abutment  
 Elastomeric Bearings  
 FAI Route 80 Section (37-5HB-2)M  
 Henry County  
 Structure No. 037-0116  
 TR 375N over Interstate 80

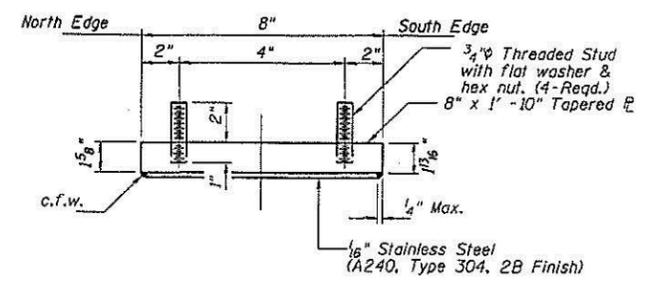


**ELEVATION AT NORTH ABUTMENT**

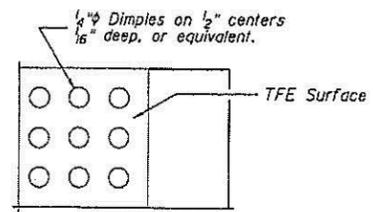


**SECTION A-A**

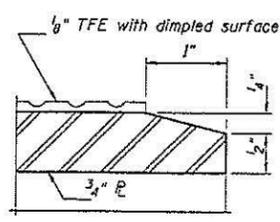
**TYPE II TFE ELASTOMERIC EXP. BRG.**



**TOP BEARING ASSEMBLY**

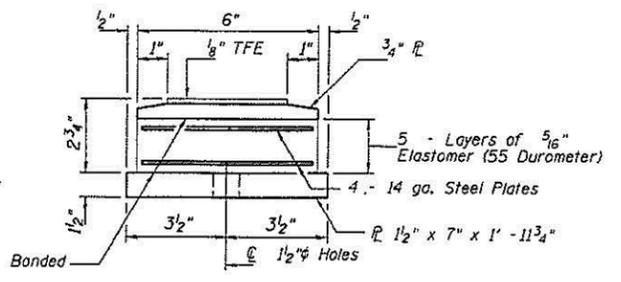


**PLAN-TFE SURFACE**

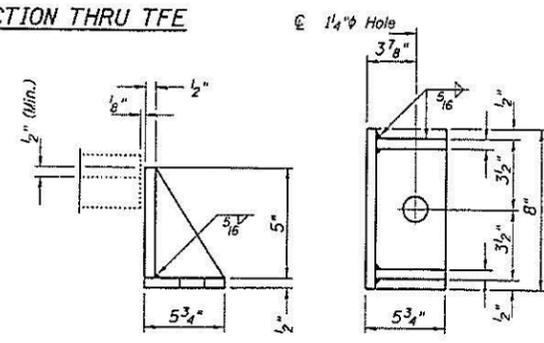


**SECTION THRU TFE**

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.  
 Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

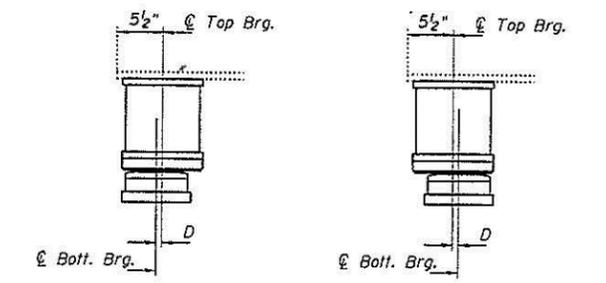


**BOTTOM BEARING ASSEMBLY**



**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**SETTING ANCHOR BOLTS AT EXP. BRG.**  
 BELOW 50° F. (Move bott. brg. away from fixed brg.) ABOVE 50° F. (Move bott. brg. toward fixed brg.)

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.