

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
880	D2 BDR 2018-1	HENRY	31	1
ILLINOIS			CONTRACT NO. 64M63	

INDEX OF SHEETS

04-27-2018 LETTING ITEM 072

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3-23 MAINTENANCE OF TRAFFIC PLANS & STANDARDS
- 24-31 STRUCTURAL REPAIR PLANS (SN 037-0029, SN 037-0030)

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL EQUIVALENTS OF AN INCH AND FOOT
- 701101-05 OFF ROAD OPERATIONS MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-11 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-12 LANE CLOSURE, FREEWAY/EXPRESSWAY WITH BARRIER
- 701901-07 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES OF A&B METAL POSTS

NOTES:

ALL BORROW WASTE 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.

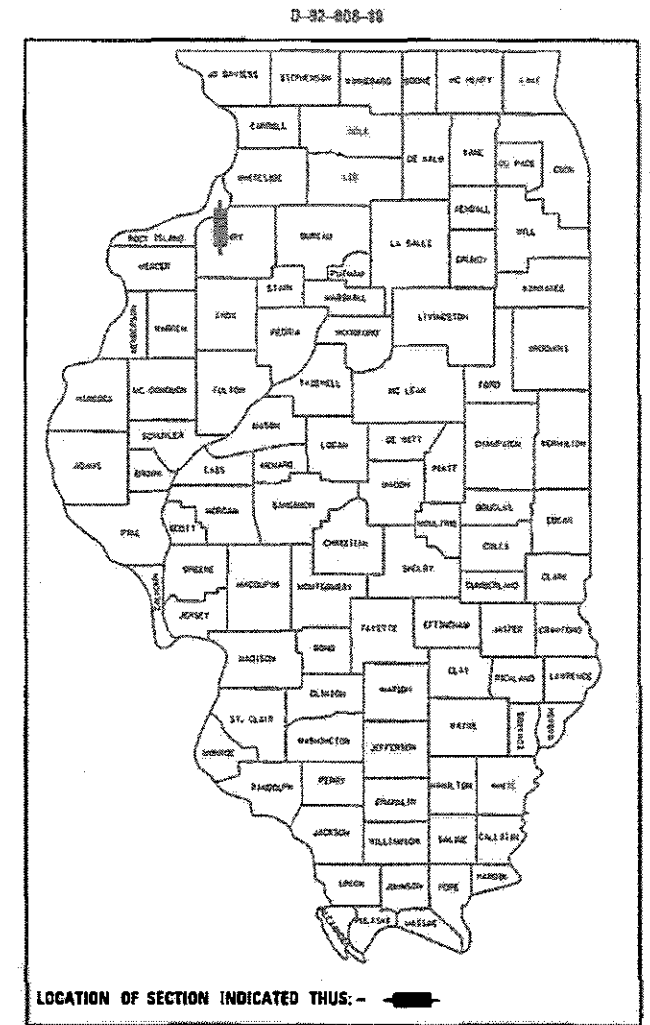
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT JULIE A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK AT 800-892-0123.

NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 2'-0" OF THE TEMPORARY CONCRETE BARRIER. EQUIPMENT THAT IS ACTIVELY WORKING WITH 2'-0" OF THE BARRIER WALL MAY BE ALLOWED FOR A SHORT DURATION, IF APPROVED BY THE ENGINEER AND THERE IS NOT ANOTHER METHOD TO COMPLETE THE WORK.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAI ROUTE 80 (I-80)
SECTION D2 BDR 2018-1
BRIDGE REHABILITATION
S.N. 037-0029, S.N. 037-0030

HENRY COUNTY
C-92-024-18



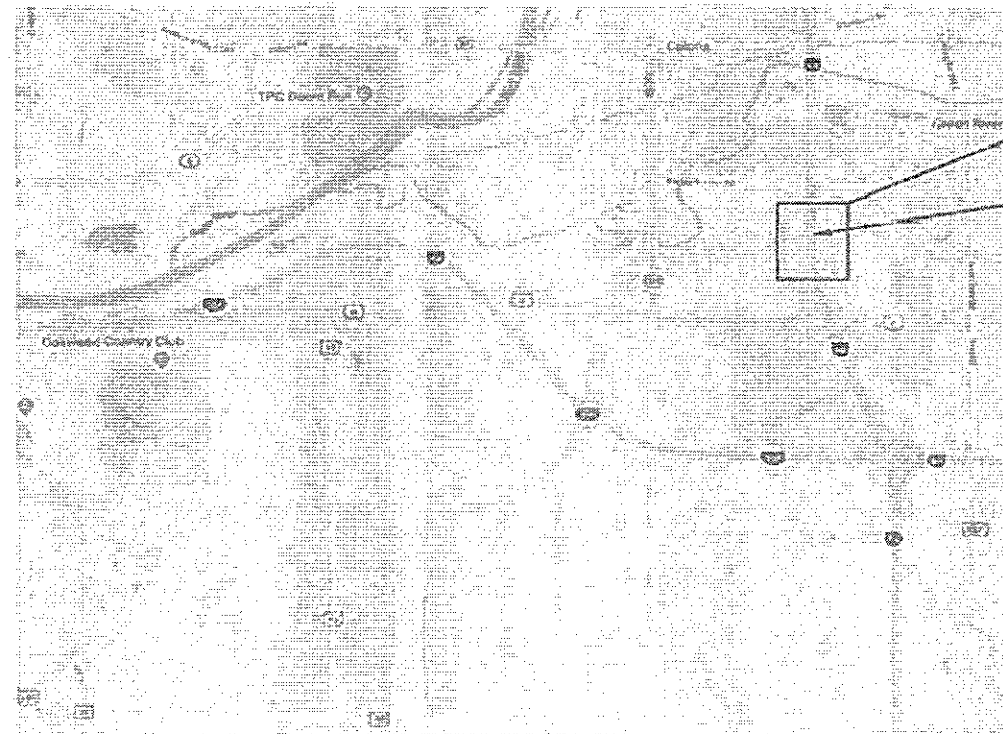
TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION
FEDERAL AID INTERSTATE
2013 ADT = 14,400
EST. TRUCK % = 32%



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



LOCATION MAP
N.T.S.

GROSS LENGTH = 3,520 FT. = 0.667 MILE
 NET LENGTH = 3,520 FT. = 0.667 MILE



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 1-25-18
[Signature]
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Mar 23 2018
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

Mar 23 2018
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JEFFREY EHRHART, P.E. (312) 256-9090
 PROJECT MANAGER: MAHMOUD ETEMADI, P.E. (815) 284-5359
 CONTRACT NO. 64M63

SUMMARY OF QUANTITIES

CODE NAME	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% STATE
				BRIDGE 037 037-0029 037-0030	ROADWAY 004 URBAN
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	27.0		27.0
50102400	CONCRETE REMOVAL	CU YD	25.6	25.6	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	53.0		53.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	27.9	27.9	
40603370	HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	54.0		54.0
50300300	PROTECTIVE COAT	SQ YD	1,497.1	1497.1	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,080	3,080	
50800515	BAR SPLICERS	EACH	56	56	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	164	164	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	10	10	
52100520	ANCHOR BOLTS, 1"	EACH	40	40	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4,130	4,130	
67100100	MOBILIZATION	LSUM	1		1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1		1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1		1
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1,590		1,590
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ. FT.	664		664
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	9,320		9,320
70400100	TEMPORARY CONCRETE BARRIER	FOOT	862.5		862.5
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	862.5		862.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,060		1,060
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,131	1,131	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT.	3,108		3,108
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	10	10	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	1,720	1,720	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	940	940	
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	1,623	1,623	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,623	1,623	
Z0010001	DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ YD	1.0	1.0	
Z0020290	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,623	1,623	

FILE NAME = Z:\SHARE\Projects\2016-0022\10 Work Order 8\0264M63-SHT-5001.dgn

WYNN DALCO
ENGINEERS
19081 Old LaGrange Rd, Ste. 106
Mkeno, IL 60448
312-256-9090

USER NAME * Jeff Ehrhart
DESIGNED - MJL
CHECKED - JCE
DRAWN - MJL
PLOT DATE * 1/24/2018

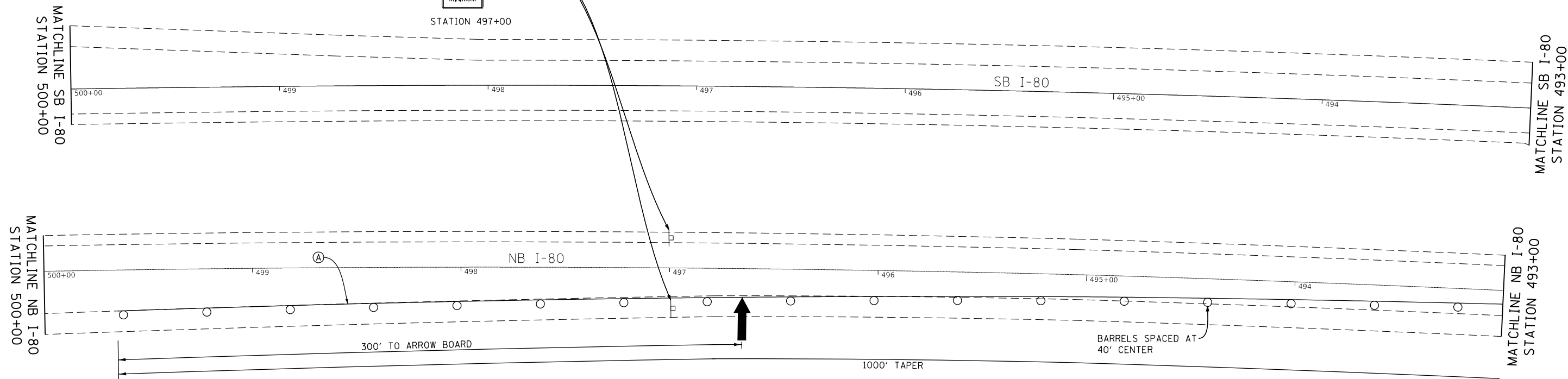
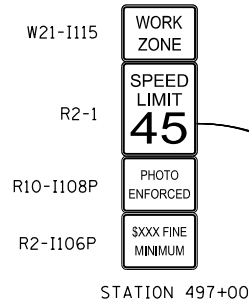
REVISOR
REVISOR
REVISOR
REVISOR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
STRUCTURE NO. 037-0029 & 037-0030**

SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
080	D2 BDR 2018-1	HENRY	31	2
CONTRACT NO. 64M63				
ILLINOIS FED. AID PROJECT				



SEE STANDARD 701400 FOR APPROACH
START OF LANE CLOSURE TAPER

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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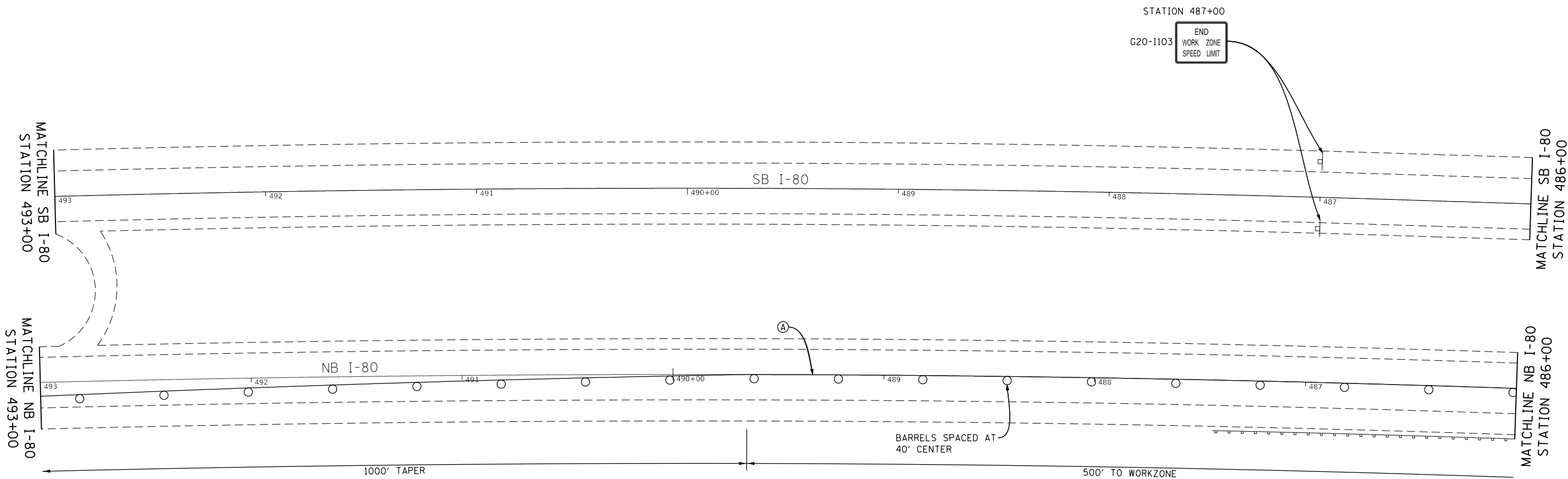


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN STAGE 1	
SHEET 1	OF 6 SHEETS
STA. 493+00	TO STA. 500+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	2
CONTRACT NO. 64M63				
ILLINOIS		FED. AID PROJECT		



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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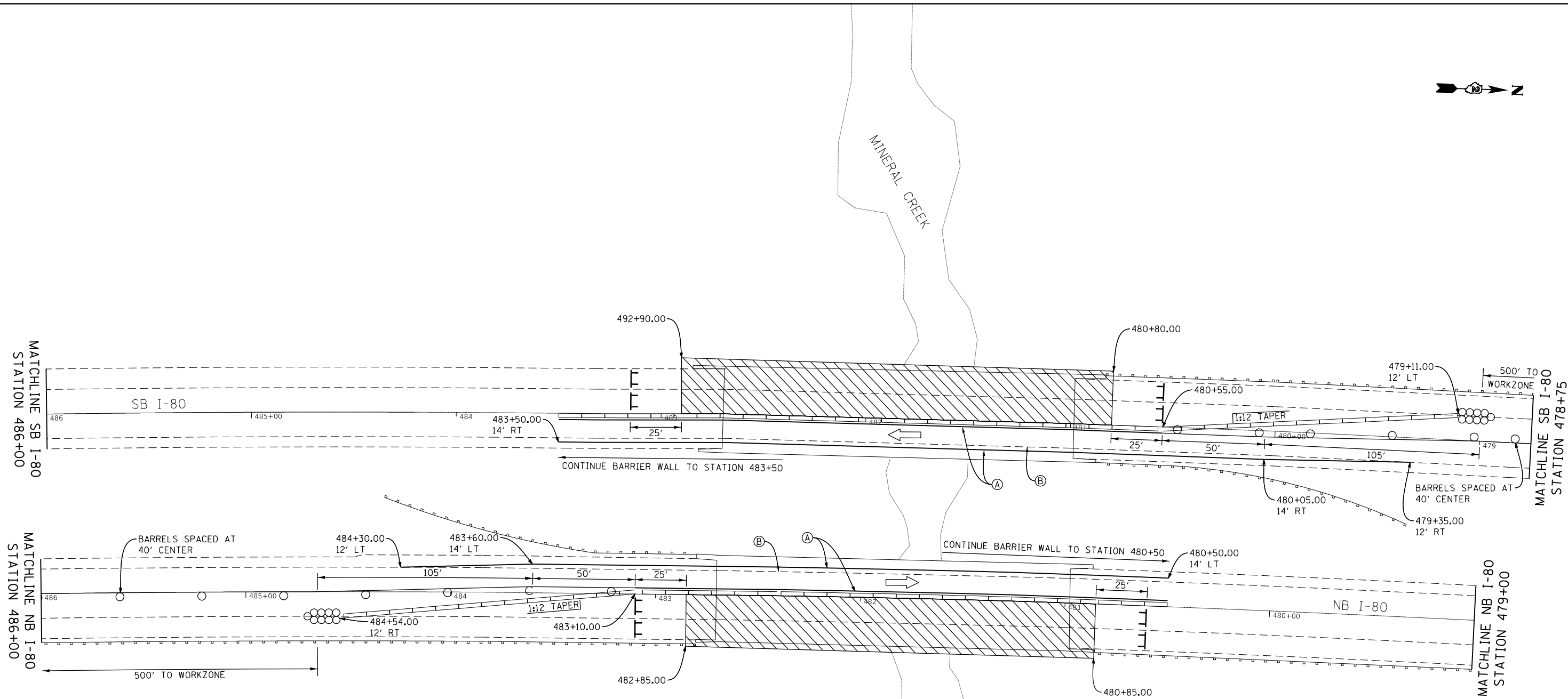
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE 1**

SHEET 2 OF 6 SHEETS STA. 486+00 TO STA. 493+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



- LEGEND**
- WORK ZONE
 - TEMPORARY CONCRETE BARRIER WALL
 - TEMPORARY PAVEMENT MARKING
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
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 - ARROW BOARD
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 - TRAFFIC DIRECTION
 - PAVEMENT MARKING TAPE, TYPE III 4"
 - PAVEMENT MARKING BLACKOUT TAPE, 4"
 - TEMPORARY TRAFFIC SIGN

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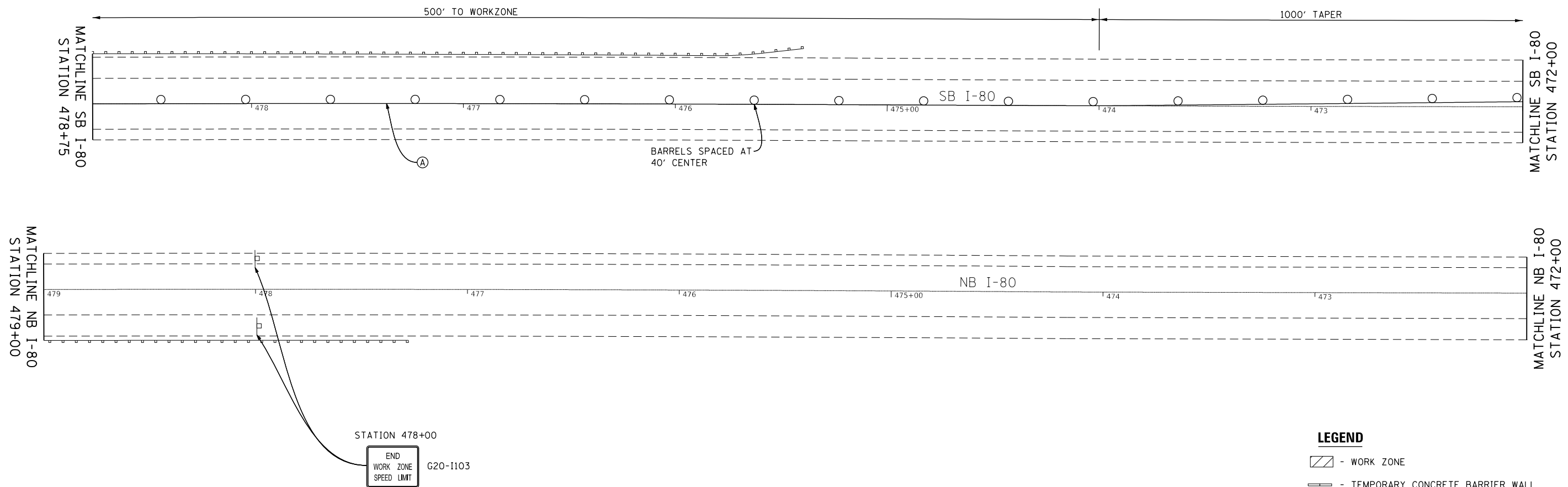


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN STAGE 1		
SHEET 3	OF 6 SHEETS	STA. 478+75 TO STA. 486+00

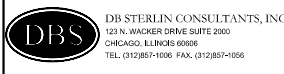
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80	D2 BDR 2018-1	HENRY	21	4
CONTRACT NO. 64M63			ILLINOIS FED. AID PROJECT	



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
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- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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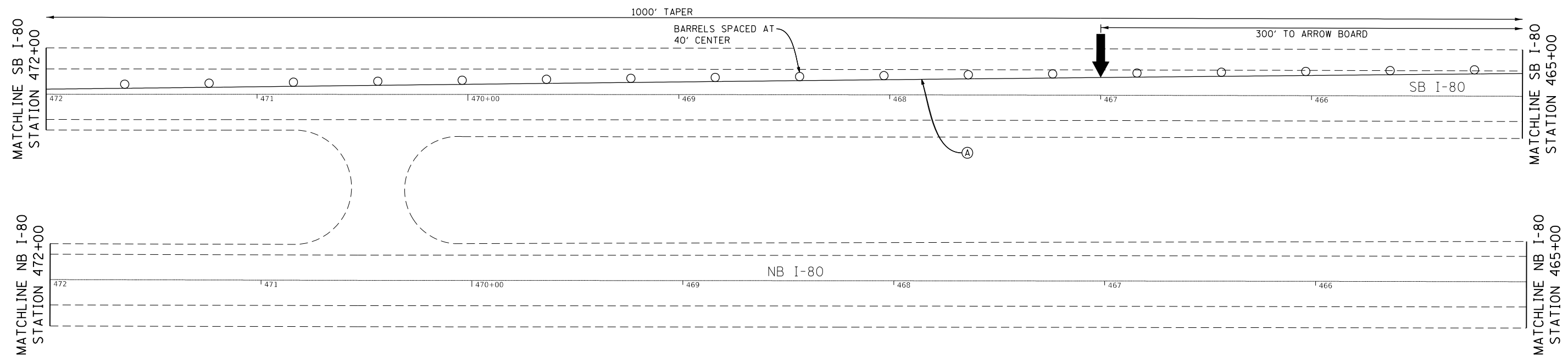


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN STAGE 1		
SHEET 4	OF 6 SHEETS	STA. 472+00 TO STA. 479+00

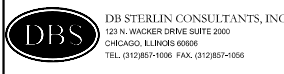
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80	D2 BDR 2018-1	HENRY	21	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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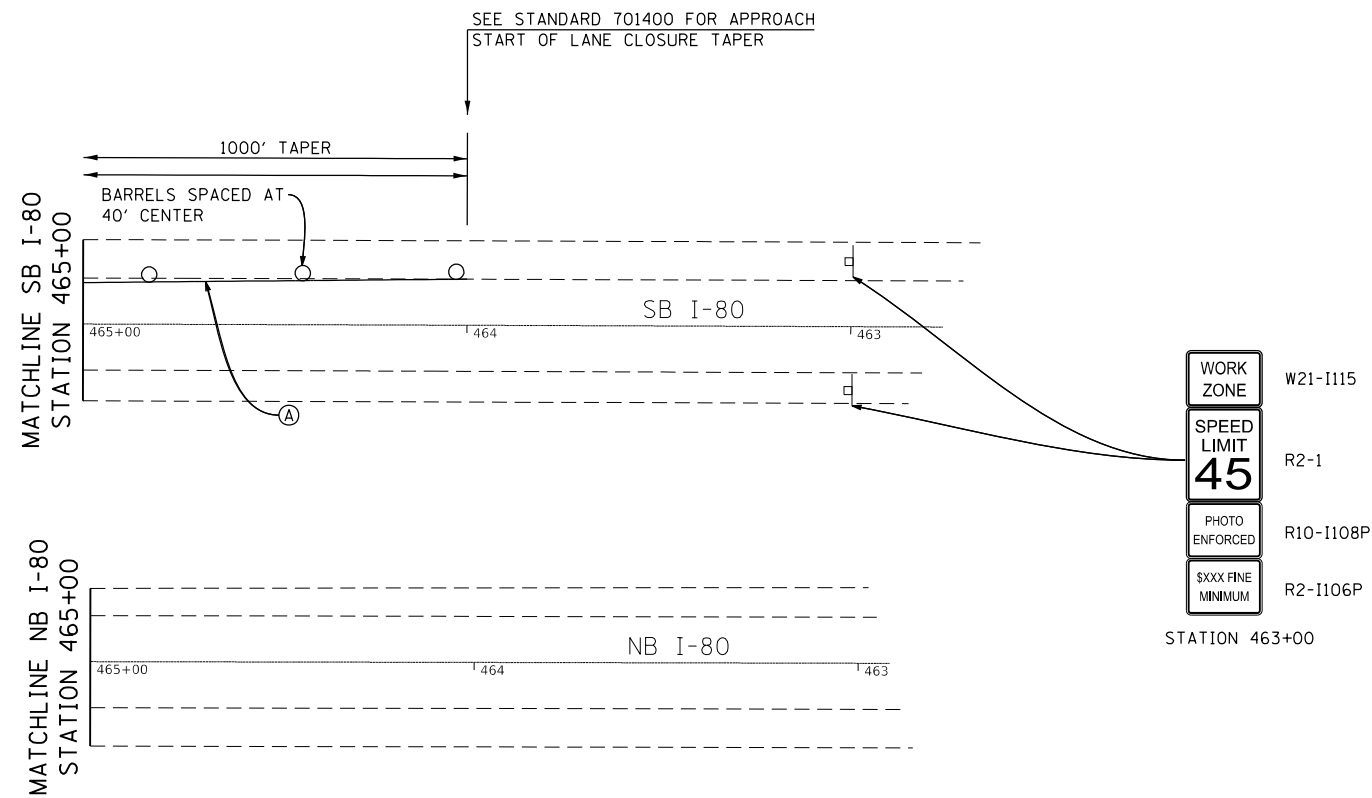


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN STAGE 1		
SHEET 5	OF 6 SHEETS	STA. 465+00 TO STA. 472+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



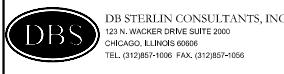
STAGE 1 MAINTENANCE OF TRAFFIC – SUMMARY OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	0.5
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	795
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	332
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4660
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	1554
70400100	TEMPORARY CONCRETE BARRIER	FOOT	862.50
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	-
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	-

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
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- TRAFFIC DIRECTION
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- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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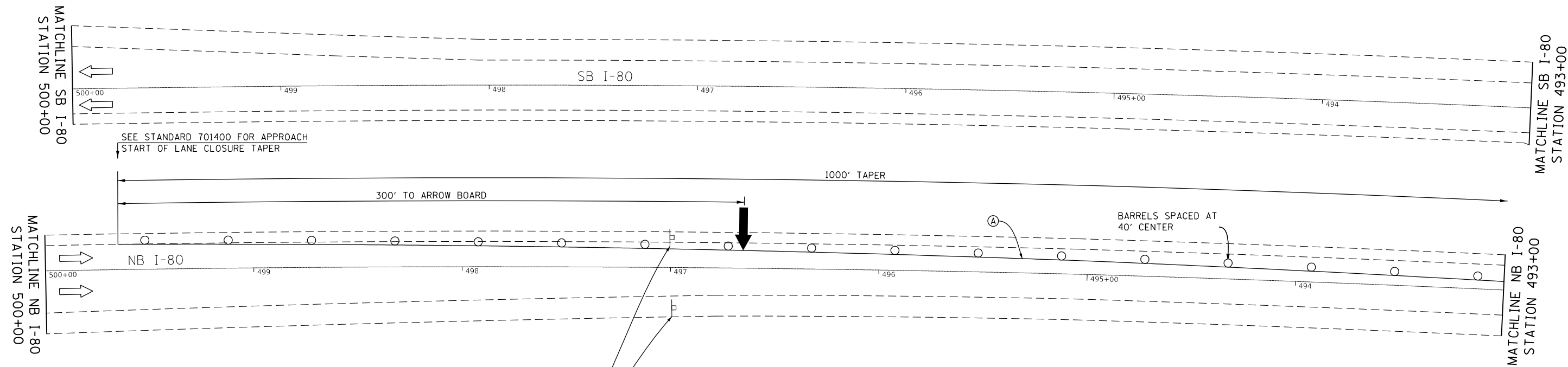


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

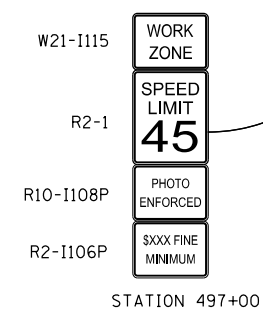
MAINTENANCE OF TRAFFIC PLAN STAGE 1	
SHEET 6 OF 6 SHEETS	STA. 463+00 TO STA. 465+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
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- TRAFFIC DIRECTION
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- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN



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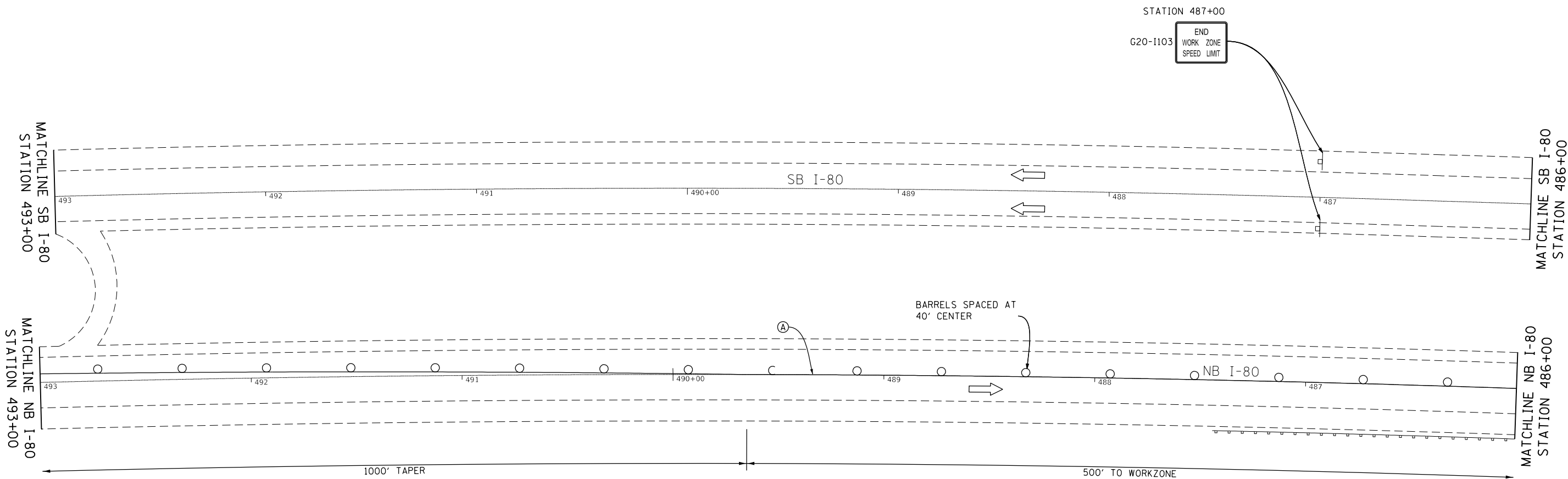
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PLOT DATE = 1/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE 2**

SHEET 1 OF 6 SHEETS STA. 493+00 TO STA. 500+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
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- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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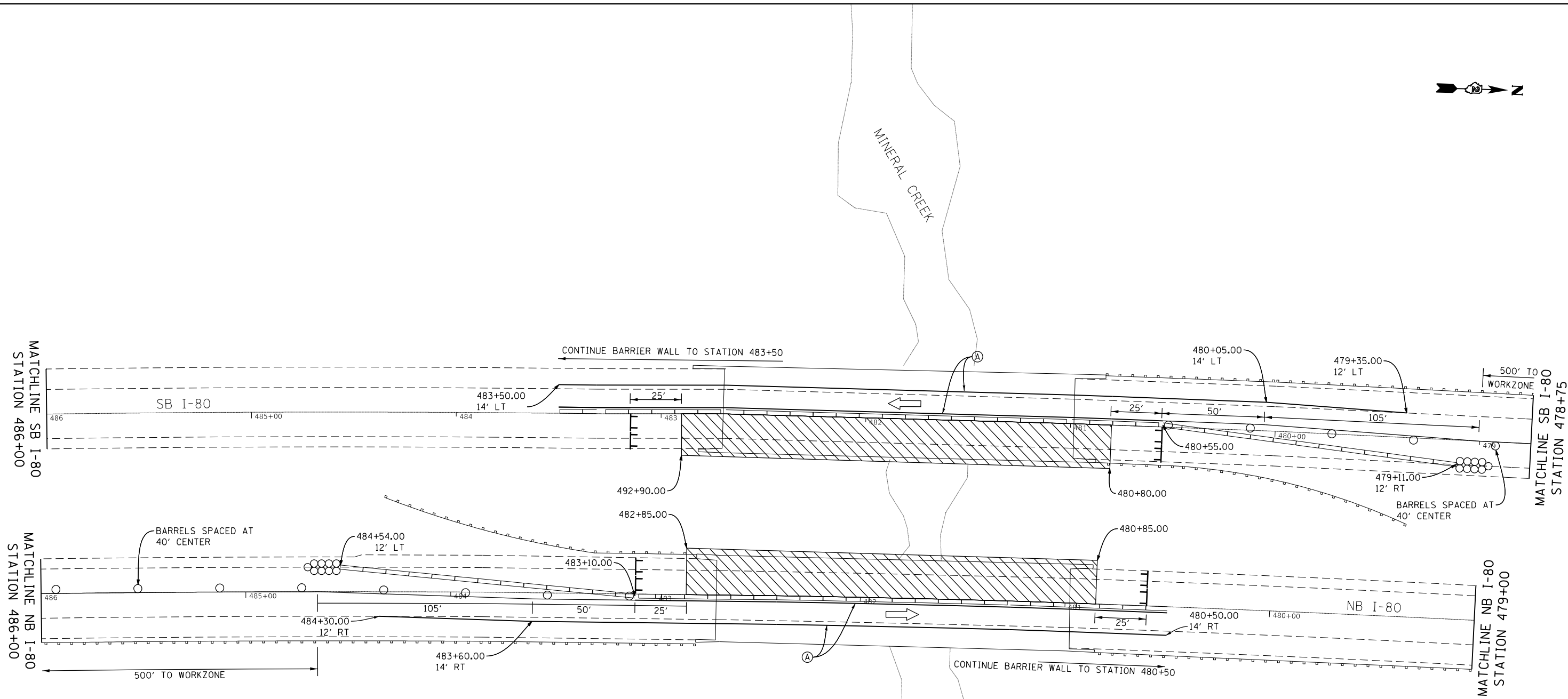
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PLOT DATE = 1/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE 2**

SHEET 2 OF 6 SHEETS STA. 486+00 TO STA. 493+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	9
CONTRACT NO. 64M63			ILLINOIS FED. AID PROJECT	



- LEGEND**
- WORK ZONE
 - TEMPORARY CONCRETE BARRIER WALL
 - TEMPORARY PAVEMENT MARKING
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
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 - TEMPORARY TRAFFIC SIGN

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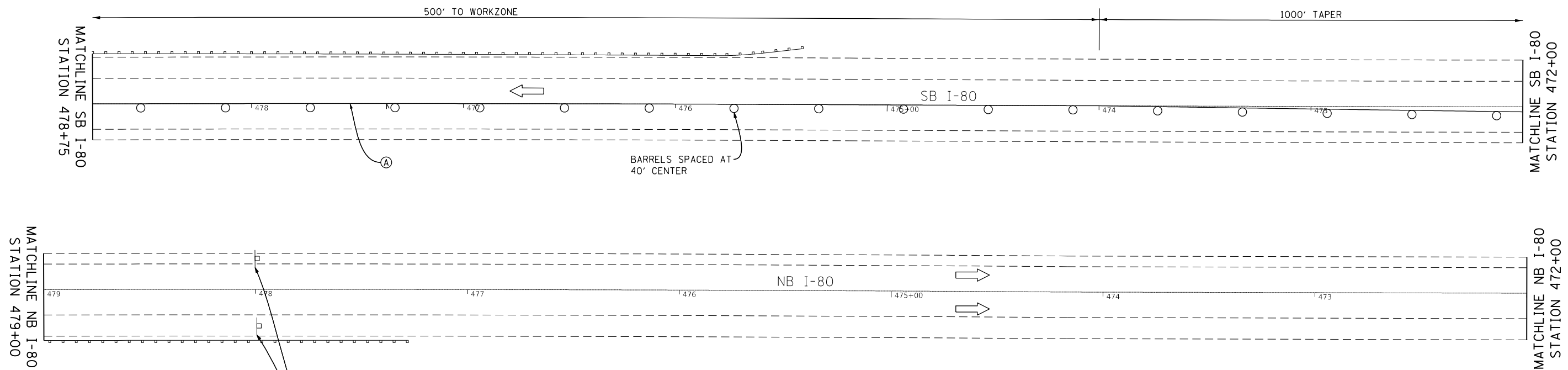


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PLOT DATE = 1/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN STAGE 2		
SHEET 3	OF 6 SHEETS	STA. 478+75 TO STA. 486+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	10
			CONTRACT NO. 64M63	
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

STATION 478+00
 END WORK ZONE
 SPEED LIMIT G20-1103

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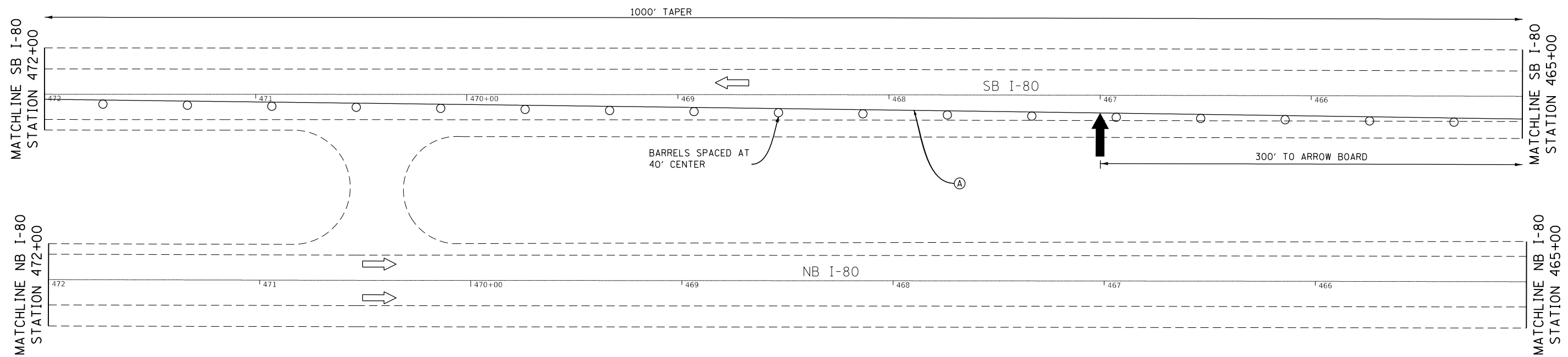
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DRAWN - JS	REVISIONS -	
PLOT SCALE = 50.0000' / in.	CHECKED - MM	REVISED -
PLOT DATE = 1/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**












**MAINTENANCE OF TRAFFIC PLAN
 STAGE 2**

SHEET 4 OF 6 SHEETS STA. 472+00 TO STA. 479+00

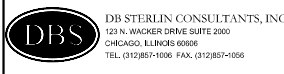
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



LEGEND

-  - WORK ZONE
-  - TEMPORARY CONCRETE BARRIER WALL
-  - TEMPORARY PAVEMENT MARKING
-  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  - TYPE III BARRICADE
-  - ARROW BOARD
-  - IMPACT ATTENUATOR TEST LEVEL 3
-  - TRAFFIC DIRECTION
-  - PAVEMENT MARKING TAPE, TYPE III 4"
-  - PAVEMENT MARKING BLACKOUT TAPE, 4"
-  - TEMPORARY TRAFFIC SIGN

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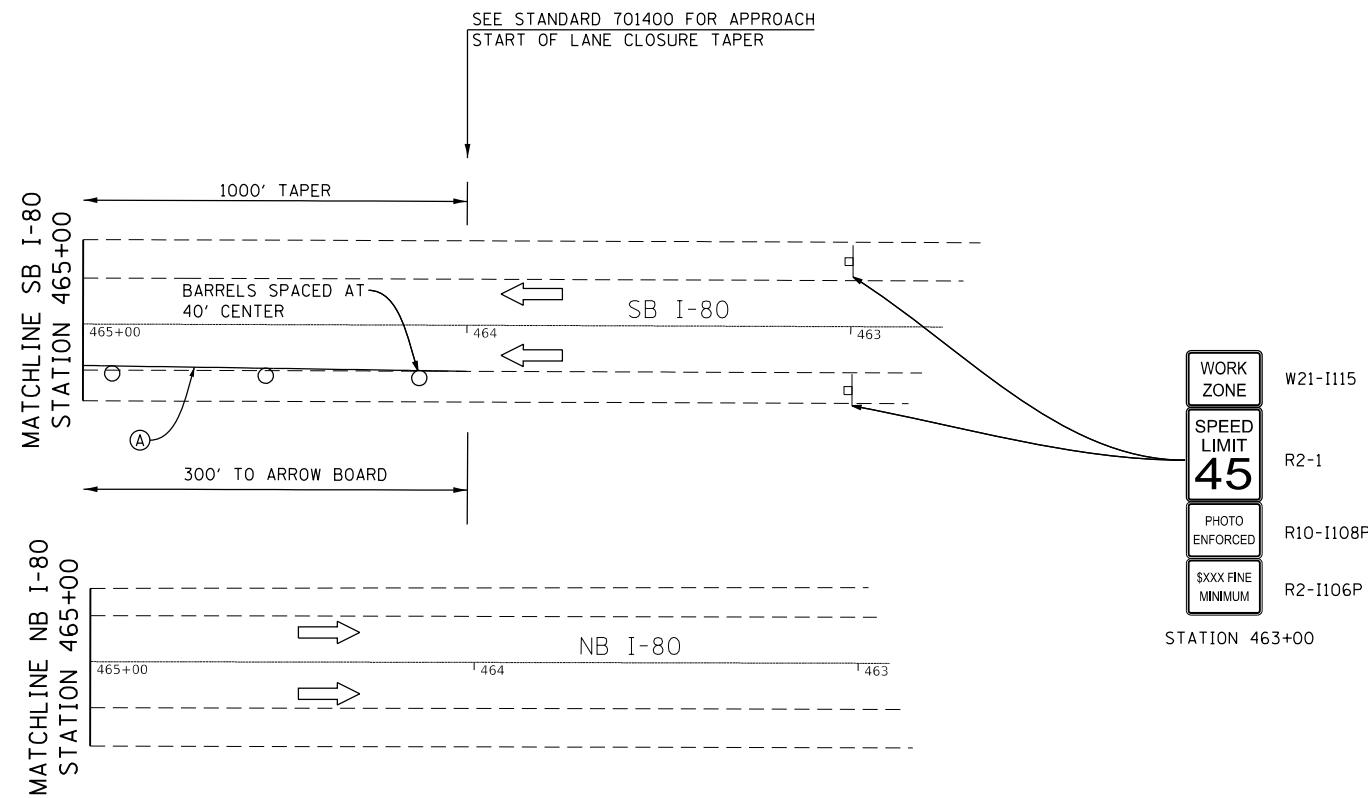


USER NAME = JSpears	DESIGNED - JS	REVISED -
DRAWN - JS	CHECKED - MM	REVISED -
PLOT SCALE = 50.0000 ' / in.	DATE -	REVISED -
PLOT DATE = 1/15/2018		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN STAGE 2		
SHEET 5	OF 6 SHEETS	STA. 465+00 TO STA. 472+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	12
CONTRACT NO. 64M63				
ILLINOIS		FED. AID PROJECT		



STAGE 2 MAINTENANCE OF TRAFFIC – SUMMARY OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	0.5
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	795
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	332
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4660
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	1554
70400100	TEMPORARY CONCRETE BARRIER	FOOT	-
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	862.50
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	-
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- PAVEMENT MARKING BLACKOUT TAPE, 4"
- TEMPORARY TRAFFIC SIGN

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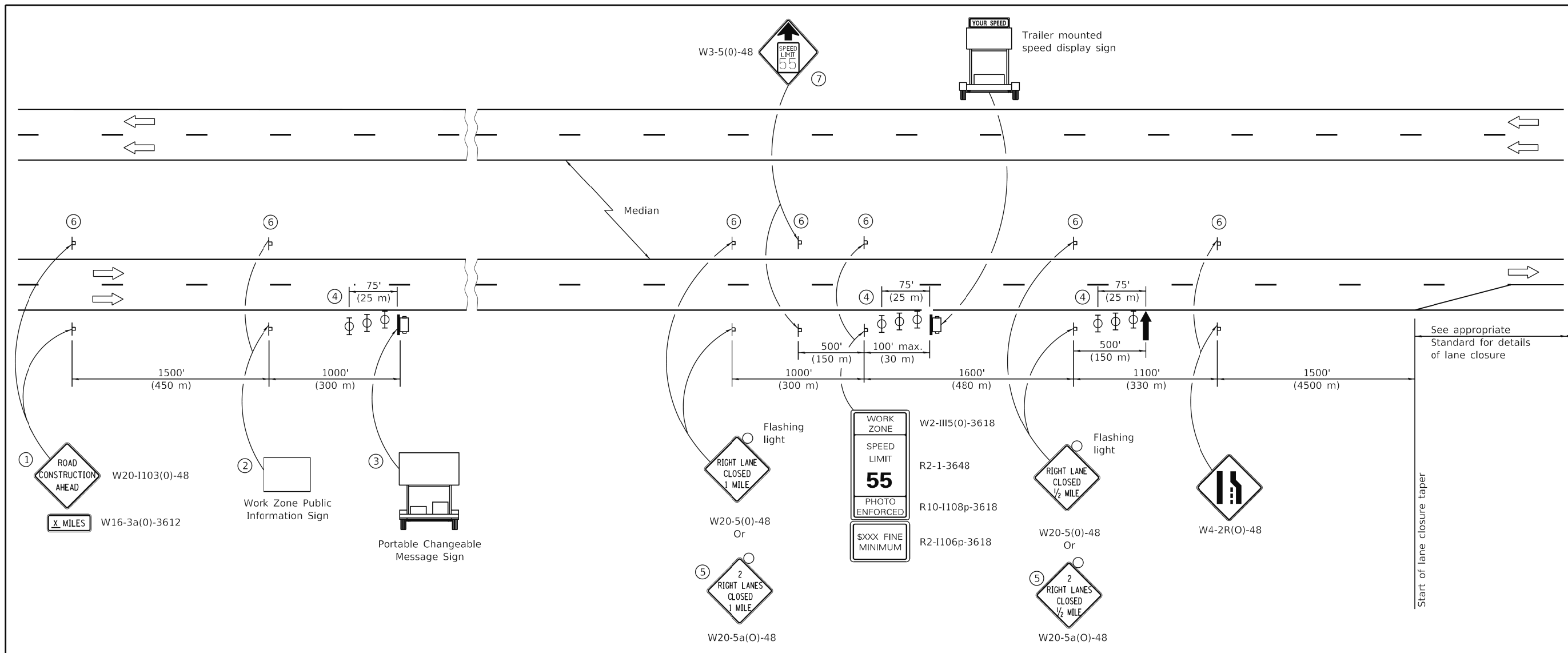
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DRAWN - JS	CHECKED - MM	REVISED -
PLOT SCALE = 50.0000 ' / in.	DATE -	REVISED -
PLOT DATE = 1/15/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
STAGE 2

SHEET 6 OF 6 SHEETS STA. 463+00 TO STA. 465+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	13
			CONTRACT NO. 64M63	
			ILLINOIS FED. AID PROJECT	



SYMBOLS

- ↑ Arrow board
- ☐ Trailer mounted sign
- ⌞ Sign
- ⊕ Type II barricade, drum, or vertical barricade with monodirectional flashing light

- ① The Road Construction Ahead sign shall be located 3 to 5 miles in advance of the project limits.
- ② The message and size of the Work Zone Public Information Sign shall be as specified by the Department.
- ③ The message board shall be used to display status of lanes within the project. The primary messages shall be:
 "Right Lane Closed" / " x Miles Ahead"
 "Left Lane Closed" / " x Miles Ahead"
 "All Lanes Open"
- ④ Three, Type II barricades, drums, or vertical barricades at 25' (8 m) centers.
- ⑤ This sign shall be used when 2 lanes are closed.
- ⑥ This sign shall be omitted when median width is less than 10' (3 m).
- ⑦ This sign shall only be used if the existing speed limit is greater than 65 mph.

GENERAL NOTES

This standard is used where at any time a lane is closed on a freeway/expressway. When the left lane is closed, LEFT LANE CLOSED signs shall be substituted for the RIGHT LANE CLOSED signs.

The first two signs and the message board are stationary.

The last four signs and arrow board shall be moved as necessary to maintain the required distance from the start of the lane closure taper(s).

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-17	Added trailer mounted speed display sign. Changed device spacing and note ④.
1-1-15	Revised '2 RIGHT LANES CLOSED X MILE' sign number.

**APPROACH TO
LANE CLOSURE,
FREEWAY/EXPRESSWAY**

STANDARD 701400-09

Illinois Department of Transportation

PASSED January 1, 2017
Paul Lore
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2017
Walter M. Adams
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-04

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DBS DB STERLIN CONSULTANTS, INC.
 100 N. WICKER DRIVE SUITE 2000
 CHICAGO, ILLINOIS 60606
 TEL. (312)857-1000 FAX. (312)857-1056

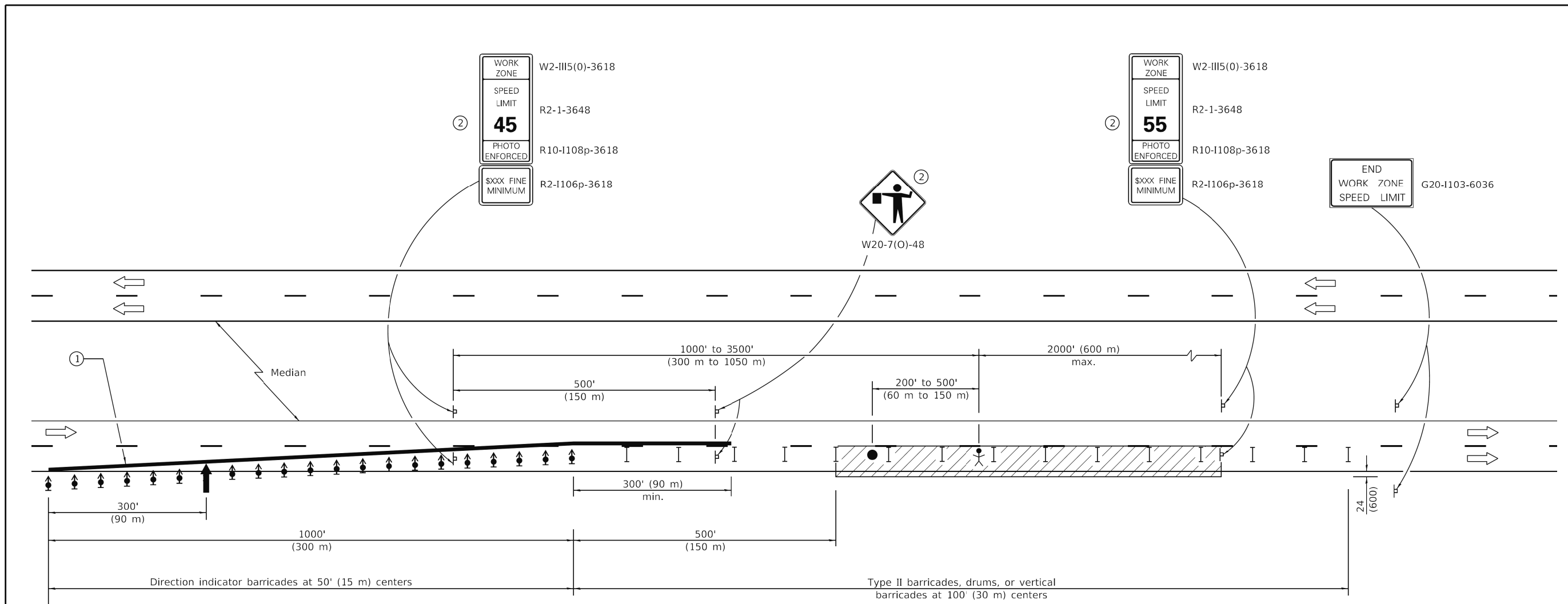
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PLOT SCALE =	DRAWN - JS	REVISED -
PLOT DATE = 1/15/2018	CHECKED - MM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS

SHEET 1 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	14
CONTRACT NO. 64M63				
ILLINOIS FED. AID PROJECT				



See Standard 701400 for approach
Start of lane closure taper

SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade
- Flagger with traffic control sign

- ① ReflectORIZED temporary pavement marking tape shall be placed throughout the taper and for 300' (90 m) along-side the work area when the closure time is greater than fourteen days. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Work Zone speed limit signs and FLAGGER signs shall be moved as necessary to maintain the required spacing between the signs and the workers in each separate work activity. Work Zone Speed Limit 55 Photo Enforced sign shall be omitted when the work area dictates placement of the sign array within 500' (150 m) of the End Work Zone Speed Limit Sign.

GENERAL NOTES

This Standard is used where at any time any vehicle, equipment, workers or their activities will encroach on the lane adjacent to the shoulder, or on the shoulder within 24 (600) of the edge of pavement.

This Standard must always be used in combination with Standard 701400.

This Standard also applies when work is being performed in the left lane. Under these conditions, the setup would be a mirror image to what is shown.

A check barricade shall be placed in the middle of the closed lane and at the shoulder at 1000' (300 m) centers.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2018
Paul Lore
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2018
Walter M. Adams
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Omitted lights in tangent.
1-1-17	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

**LANE CLOSURE,
FREEWAY / EXPRESSWAY**

STANDARD 701401-11

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DBS DB STERLIN CONSULTANTS, INC.
100 N. WILCOX DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1000 FAX: (312)857-1055

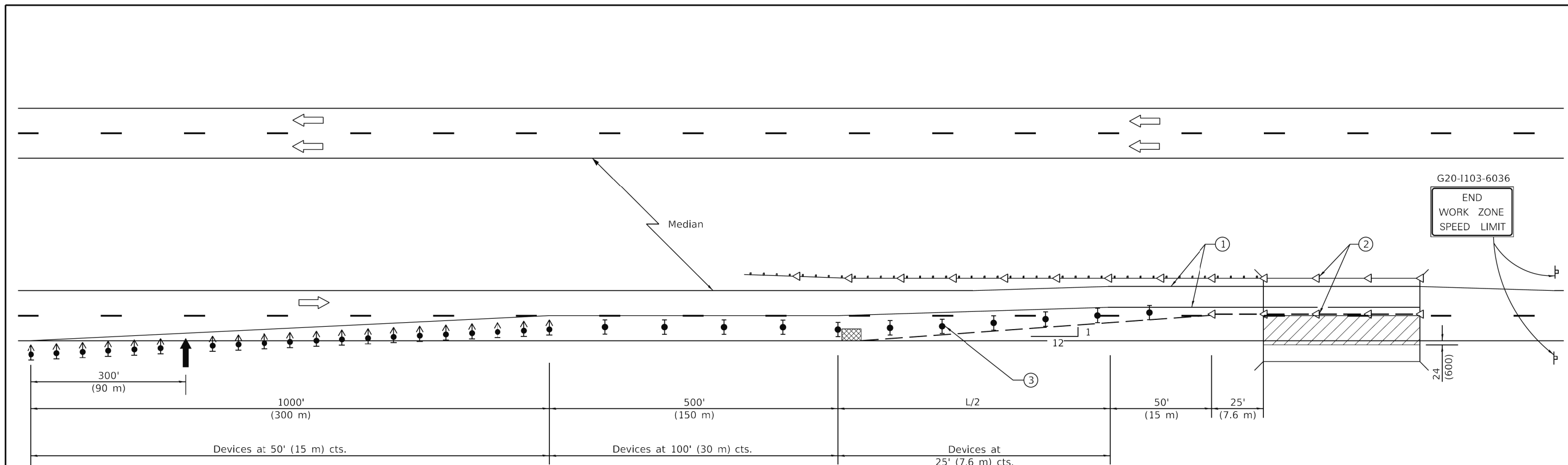
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PLOT DATE = 1/15/2018	CHECKED - MM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS

SHEET 2 OF 8 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	15
CONTRACT NO. 64M63				
ILLINOIS FED. AID PROJECT				



See Standard 701400 for approach
Start of lane closure taper

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
- Monodirectional guardrail/barrier wall reflector
- Impact attenuator

- ① Temporary pavement marking tape shall be placed throughout the taper and along-side the work area. The right edge line shall be white and the left edge line shall be yellow.
- ② Guardrail/barrier wall reflectors at 25' (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber. See Standards 704001 and 782006.
- ③ Vertical barricades shall not be used in lane shift taper.

GENERAL NOTES

This standard is used where at any time any vehicle, equipment, workers or their activities will encroach on the pavement or on the shoulder within 24 (600) of the edge of pavement for daylight operation exceeding one day and where temporary concrete barrier is utilized.

This Standard must always be used in combination with Standard 701400.

When work is being performed in the left lane, the set up would be a mirror image to what is shown.

Temporary concrete barrier shall be according to Standard 704001.

Calculate L as follows:

NORMAL POSTED SPEED	FORMULAS
	English (Metric)
45 mph (80 km/h) or more	$L=(W)(S)$ $L=0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed in mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2017
Paul Lore
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2017
Walter M. Adams
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-00

DATE	REVISIONS
1-1-17	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.
4-1-16	Added reference to Standards 704001 and 782006 in note (2).

**LANE CLOSURE,
FREEWAY/EXPRESSWAY,
WITH BARRIER**

STANDARD 701402-12

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DBS DB STERLIN CONSULTANTS, INC.
100 N. WICKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1000 FAX. (312)857-1056

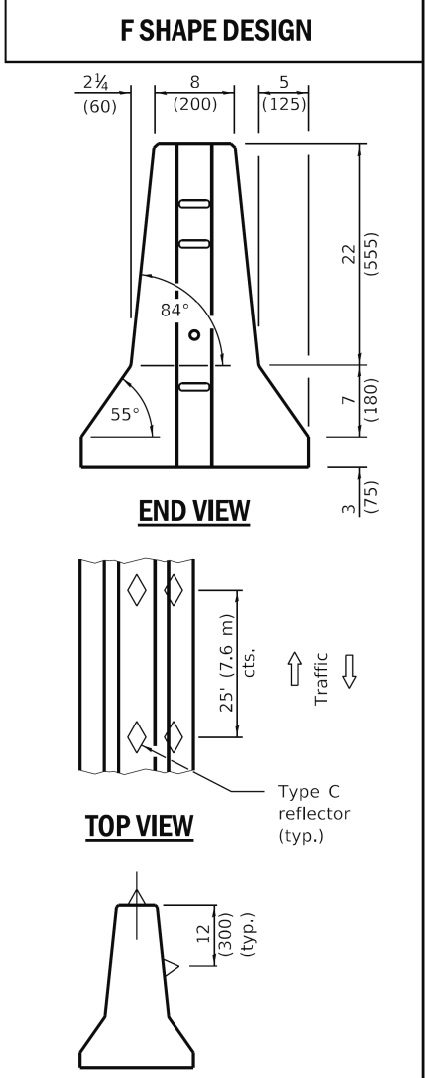
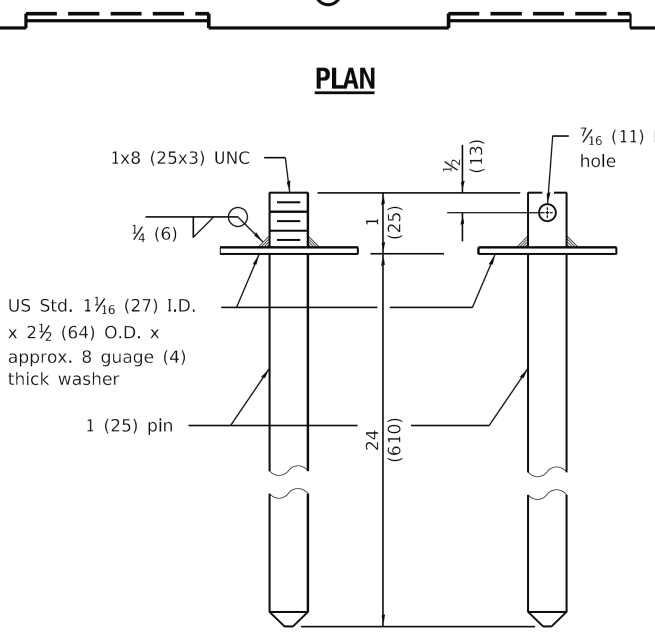
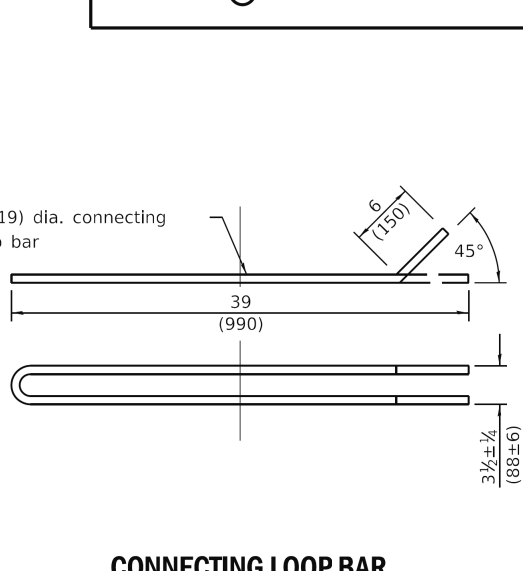
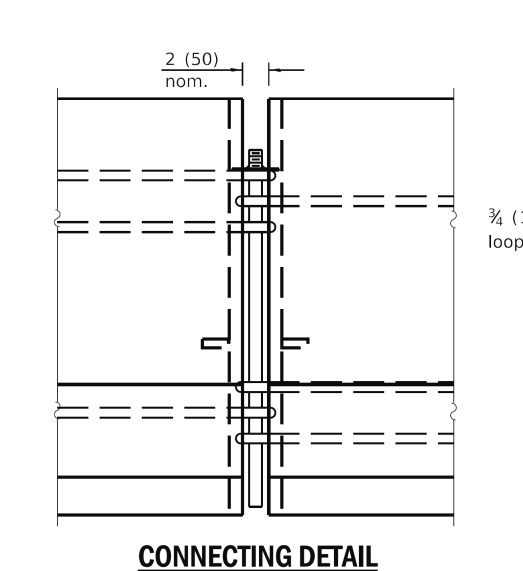
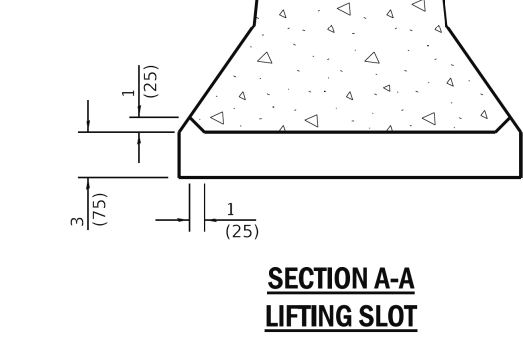
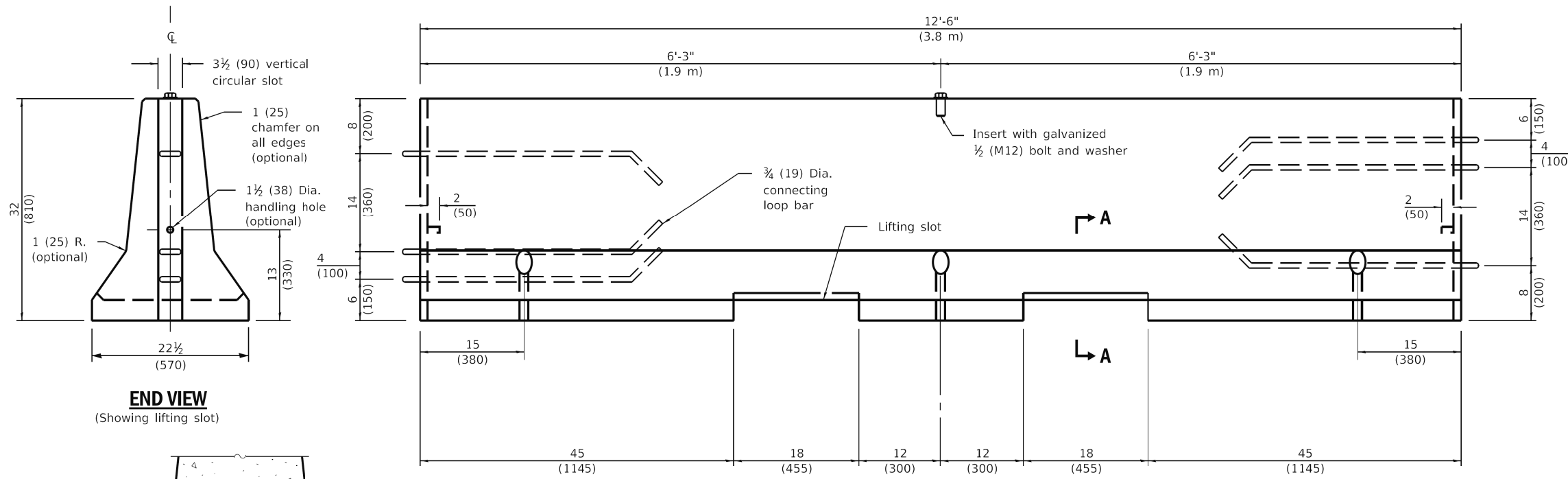
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PLOT DATE = 1/15/2018	CHECKED - MM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS

SHEET 3 OF 8 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M63	



GENERAL NOTES

Each F shape barrier shall be clearly marked with "ILLINOIS F SHAPE", the Producer's mark and the date of manufacture. The markings shall be indented on the barrier or painted thereon with waterproof paint/ink.

The insert for the 1/2 (M12) bolt shall be capable of 3,000 lb (13 kN) pull-out strength.

When barrier separates opposing flows of traffic markers shall be on both sides of barrier.

See Standard 782006 for dimensions of Type C reflector.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
4-1-16	Rev. opt. chamfer on all edges to 1 (25). Reference to Std. 635011 now 782006.
1-1-12	Omitted 'ALTERNATE' from connecting and anchoring pins detail.

TEMPORARY CONCRETE BARRIER
(Sheet 1 of 2)

STANDARD 704001-08

Illinois Department of Transportation

PASSED April 1, 2016
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 10-1-02

USER NAME = JSpears	DESIGNED - JS	REVISED -
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PLOT DATE = 1/15/2018	CHECKED - MM	REVISED -
	DATE -	REVISED -

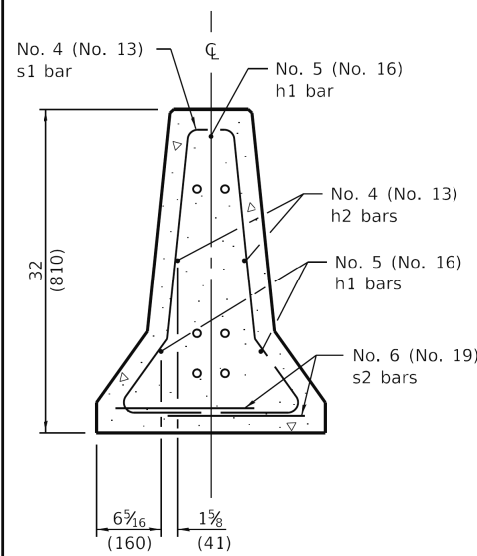
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARDS
SHEET 4 OF 8 SHEETS

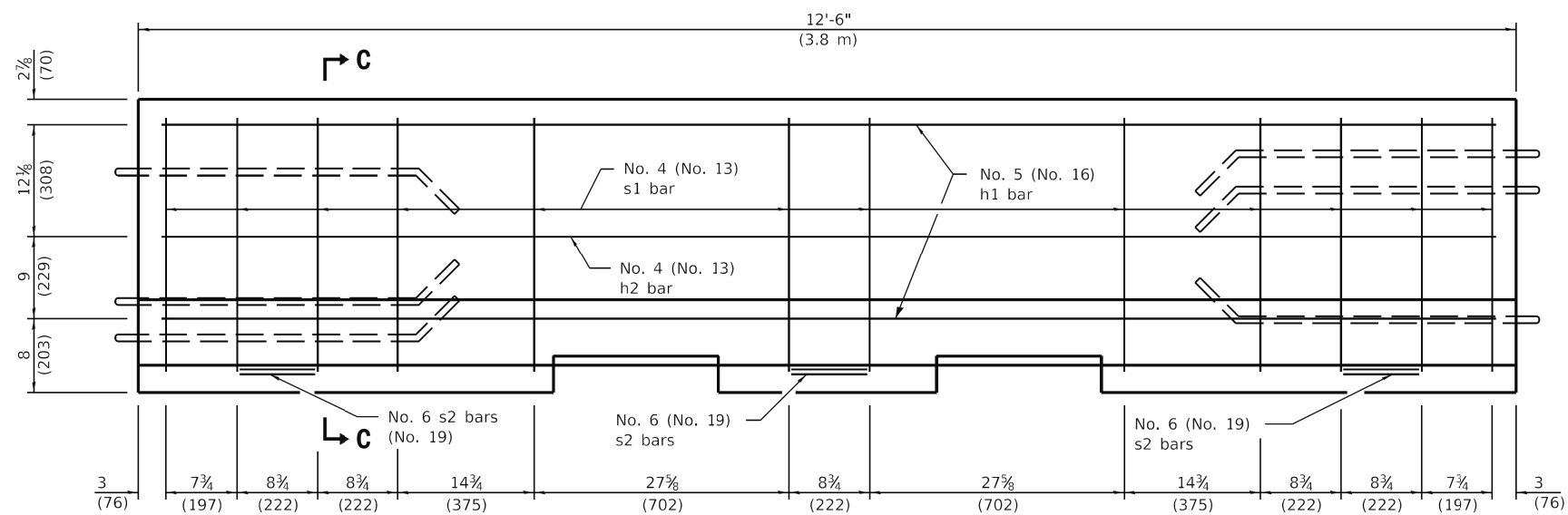
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	17
CONTRACT NO. 64M63				
ILLINOIS FED. AID PROJECT				

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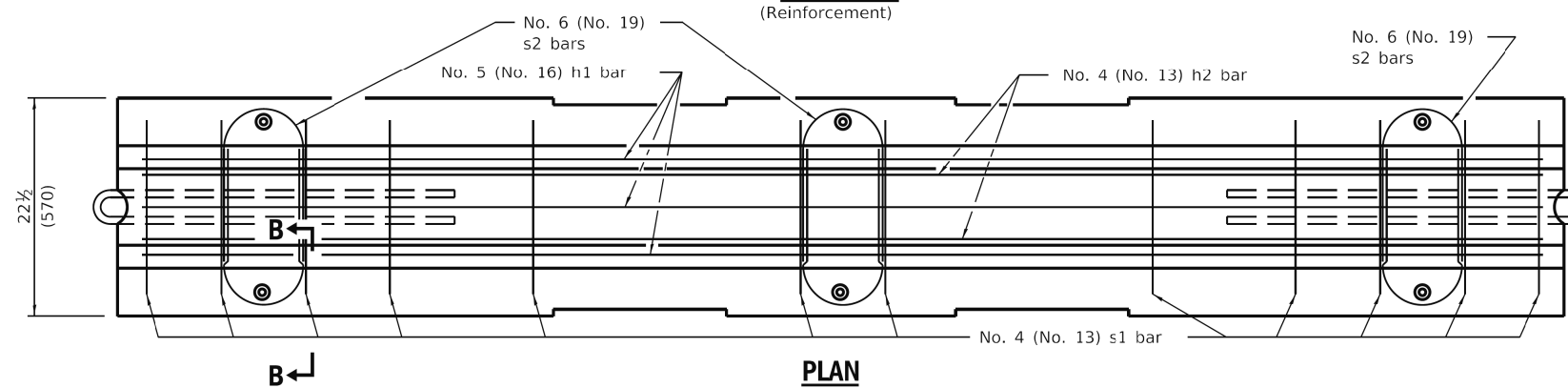
DBS
DB STERLIN CONSULTANTS, INC.
100 N. WICKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1000 FAX. (312)857-1056



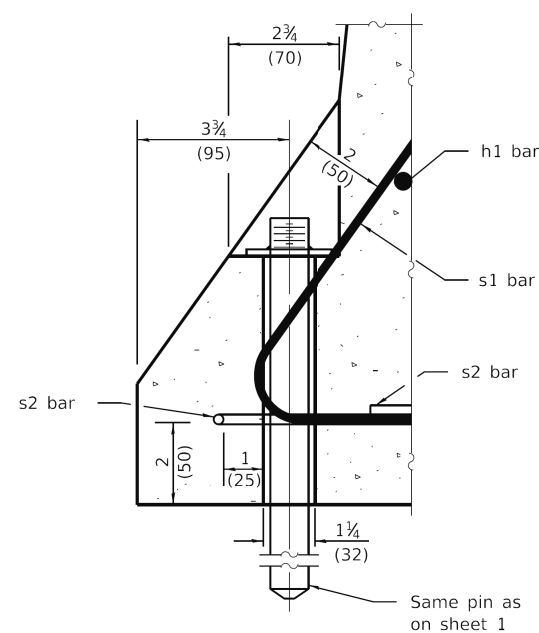
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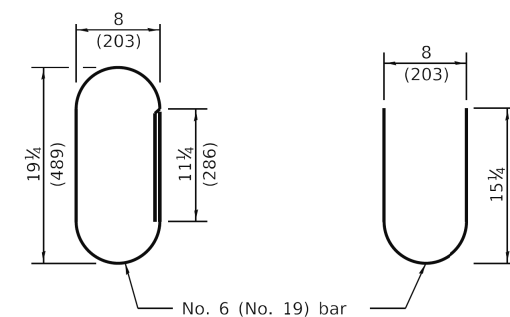
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(Reinforcement)



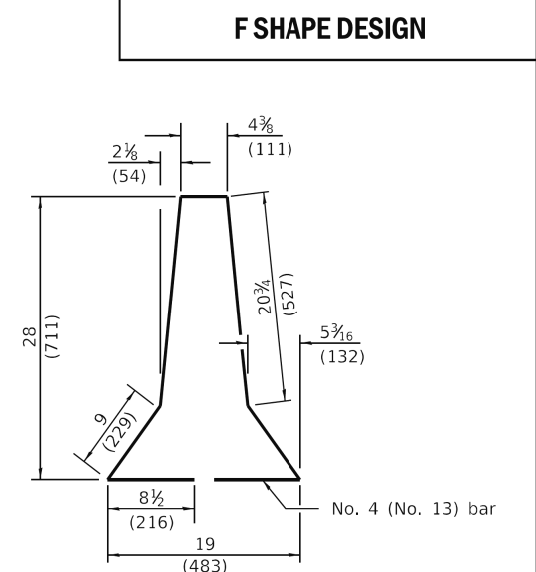
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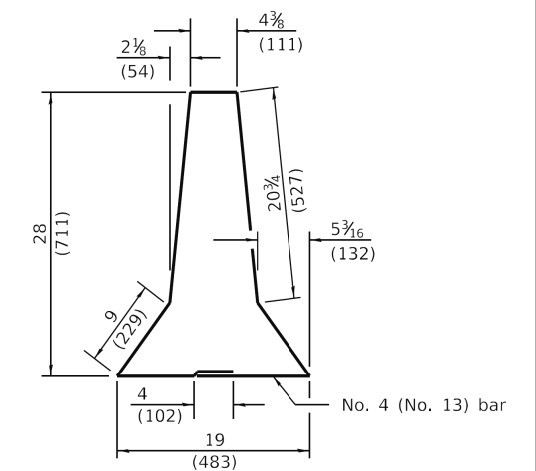
SECTION B-B
ANCHORING DETAIL



ALTERNATE s2 BARS



s1 BAR



ALTERNATE s1 BAR

TEMPORARY CONCRETE BARRIER

(Sheet 2 of 2)

STANDARD 704001-08

Illinois Department of Transportation

PASSED April 1, 2016
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 10-1-02

USER NAME = JSpears	DESIGNED - JS	REVISED -
DRAWN - JS	REVISED -	
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PLOT DATE = 1/15/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARDS

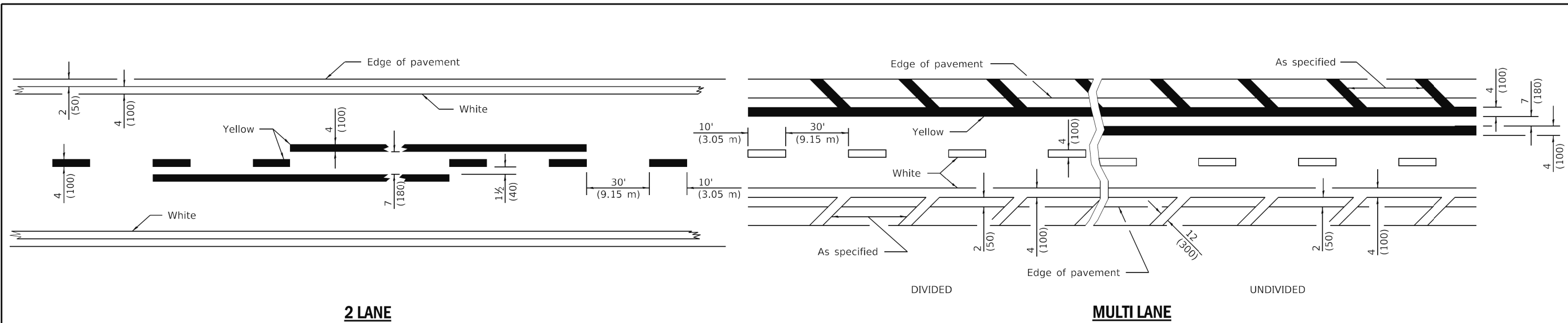
SHEET 5 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	18
			CONTRACT NO. 64M63	
ILLINOIS FED. AID PROJECT				

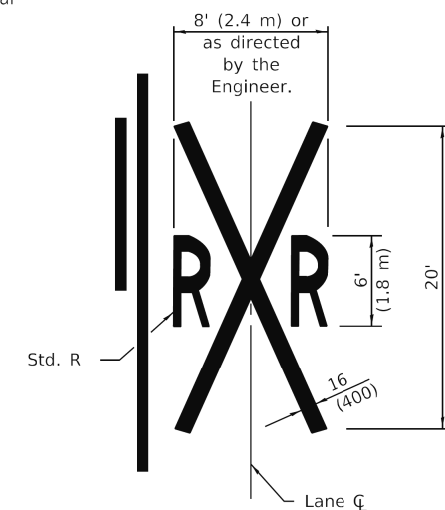
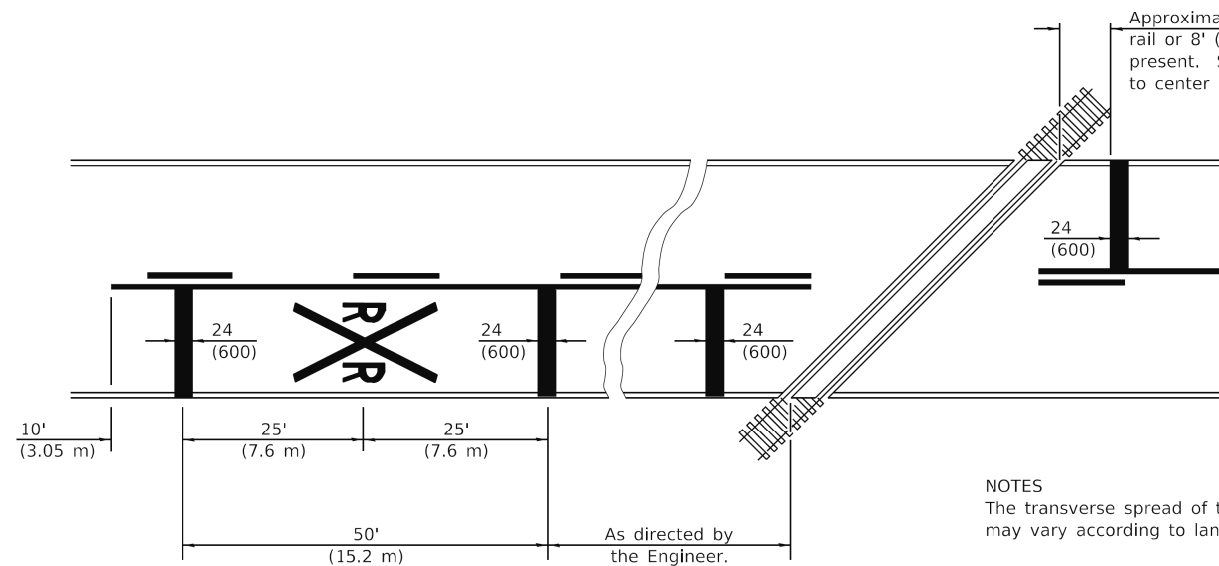
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DB STERLIN CONSULTANTS, INC.
100 N. WICKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1000 FAX. (312)857-1055



LANE AND EDGE LINES



NOTES
The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXX symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

All dimensions are in inches (millimeters) unless otherwise shown.

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed 'LANE DROP ARROW' detail to 'LANE-REDUCTION ARROW'.

TYPICAL PAVEMENT MARKINGS

(Sheet 1 of 3)

STANDARD 780001-05

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS

APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

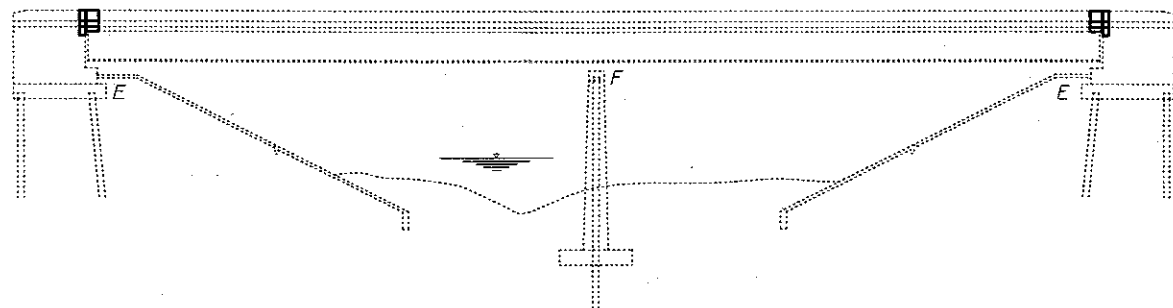
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARDS

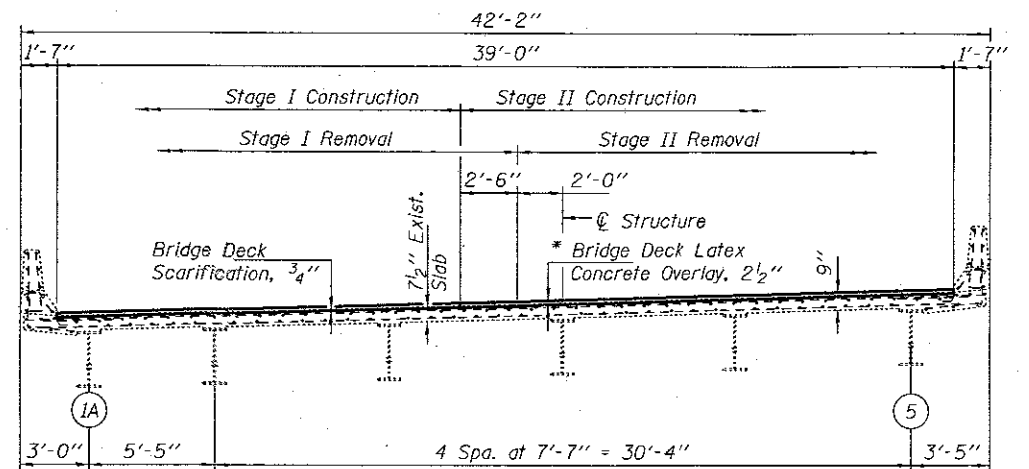
SHEET 6 OF 8 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	21	19
				CONTRACT NO. 64M63
ILLINOIS FED. AID PROJECT				

USER NAME = JSpears	DESIGNED - JS	REVISED -
PLOT SCALE =	DRAWN - JS	REVISED -
PLOT DATE = 1/15/2018	CHECKED - MM	REVISED -
	DATE -	REVISED -

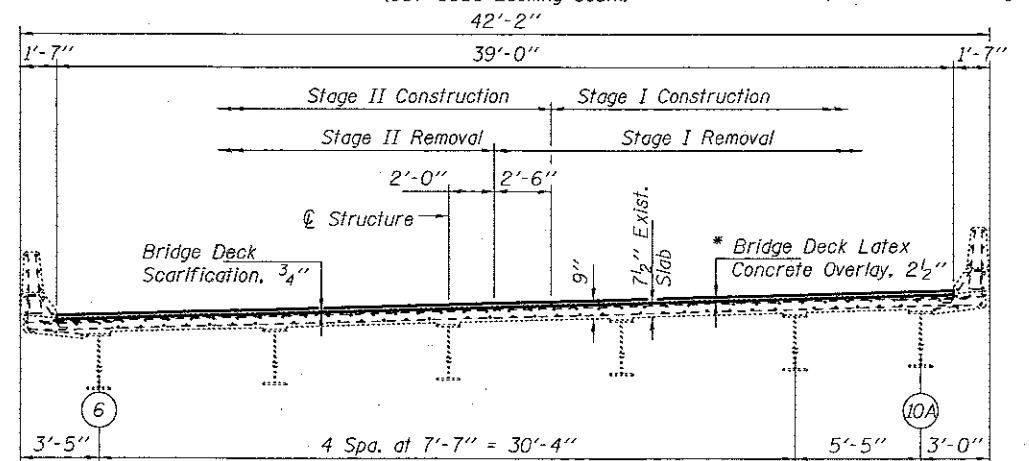


ELEVATION

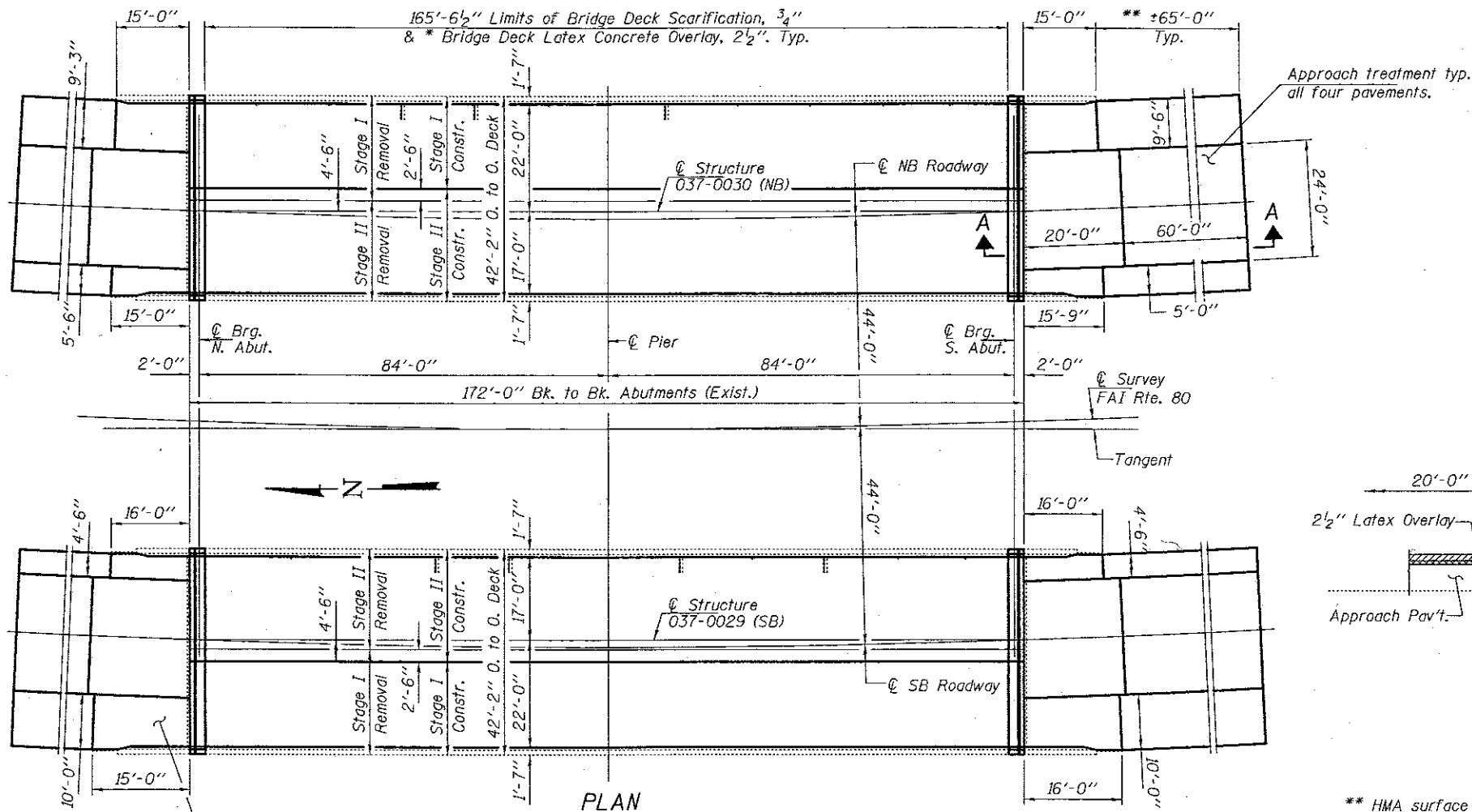


CROSS SECTION
(037-0030 Looking South)

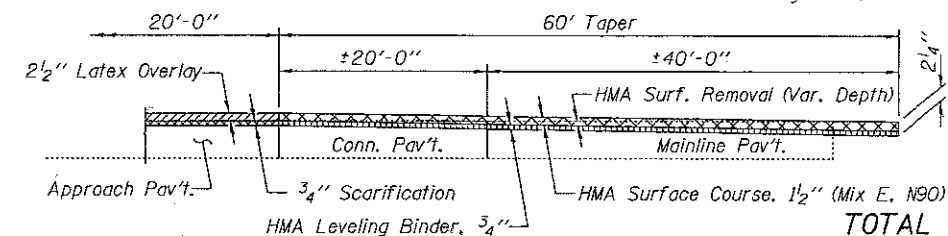
* Prior to 1/4" Diamond Grinding.



CROSS SECTION
(037-0029 Looking South)



PLAN



SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	25.6
Concrete Superstructure	Cu. Yd.	27.9
Reinforcement Bars, Epoxy Coated	Pound	3080
Bar Splicers	Each	56
Preformed Joint Strip Seal	Foot	164
Protective Coat	Sq. Yd.	1497.1
Structural Steel Repair	Pound	940
Steel Removal	Pound	1720
Furnishing and Erecting Structural	Pound	4130
Jack and Remove Existing Bearings	Each	10
Elastomeric Bearing Assembly, Type I	Each	10
Anchor Bolts 1"φ	Each	40
Bridge Deck Scarification, 3/4"	Sq. Yd.	1623
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	1623
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.0
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1131
Diamond Grinding (Bridge Section)	Sq. Yd.	1623
HMA Surface Removal, Variable Depth	Sq. Yd.	1060
HMA Leveling Binder, (Machine Method)	Ton	27
HMA Surface Course, Mix E, N90	Ton	54
HMA Surface Course Mix C, N50	Ton	53
Adjust Existing Scupper	Each	4

*** New concrete areas only
**** Includes approach pavement

** HMA surface removal, variable depth & HMA SC, 2 1/4" (Mix C, N50)

GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts 3/4"φ, open holes 1 1/8"φ, unless otherwise noted.

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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

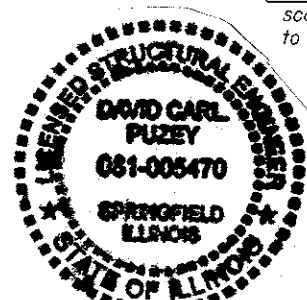
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel or Structural Steel Repair.

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.

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay.

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. Reinforcement bars designated (E) shall be epoxy coated.



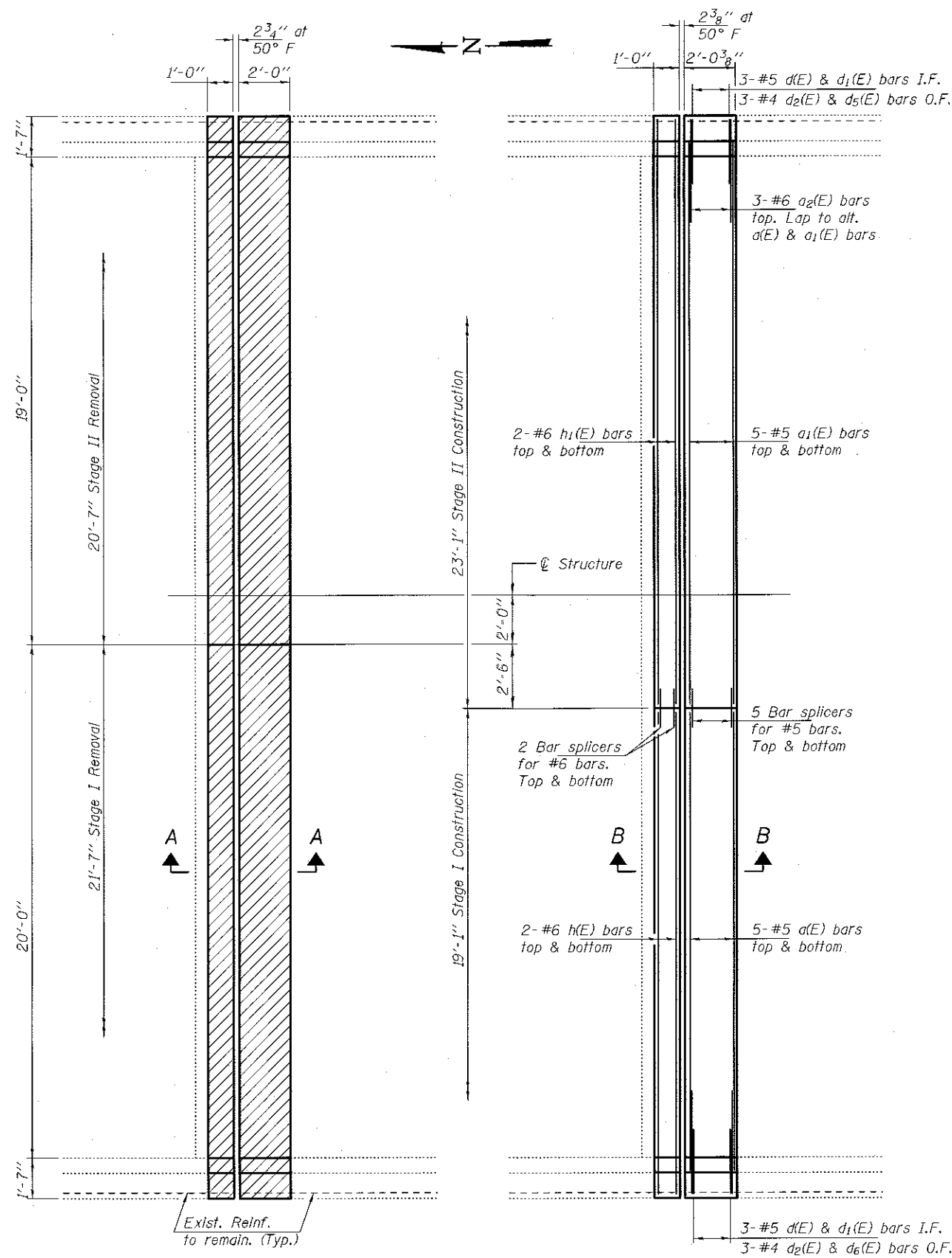
EXPIRES 11-30-2018

DESIGNED	M. Locke Dillion	EXAMINED	Tim A. Delt	DATE	MARCH 22, 2018
CHECKED	Ryan Nagengast	PASSED	David Carl Puzey	REVISED	
DRAWN	baliva			REVISED	
CHECKED	MLD				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAI 80 OVER MINERAL CREEK
SN 037-0029 (SB) & 037-0030 (NB)

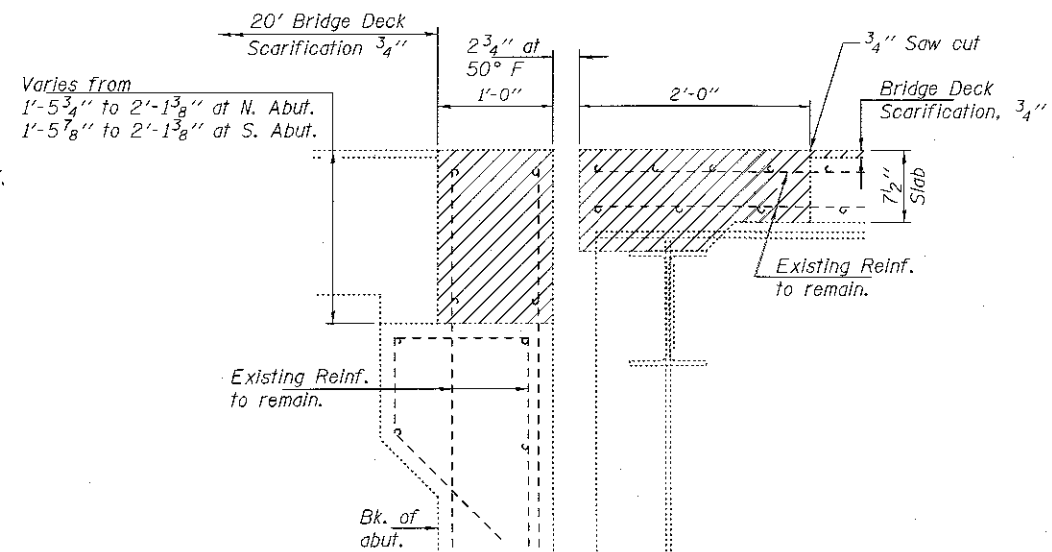
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	02 BDR 2018-1	HENRY	31	22
CONTRACT NO. 64M63			ILLINOIS FED. AID PROJECT	



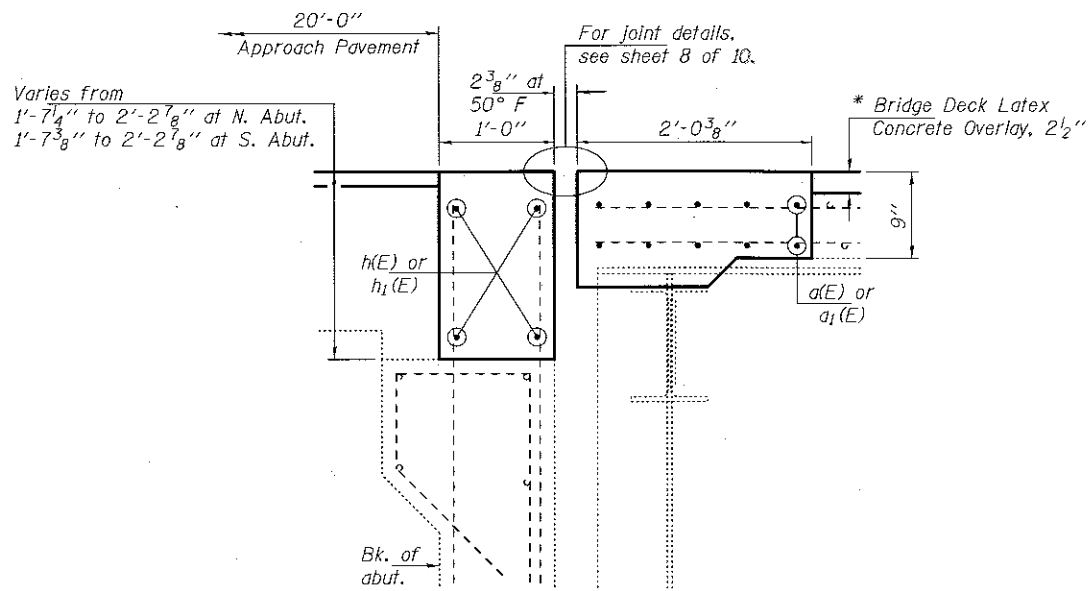
REMOVAL PLAN
(North and South abutment)

REPLACEMENT PLAN
(North and South abutment)

Note: Hatched areas indicate removal.

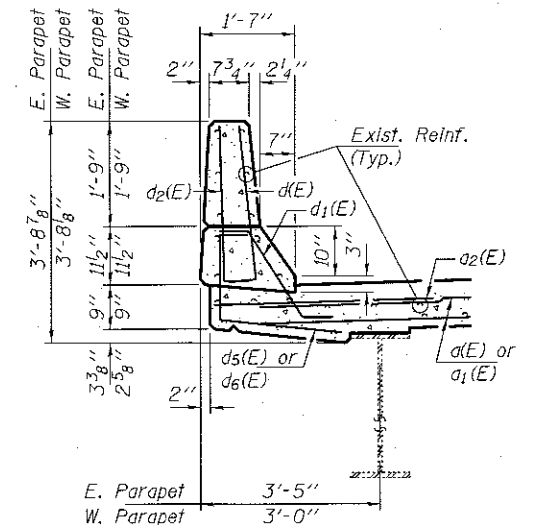


SECTION A-A
(Near Center Roadway)

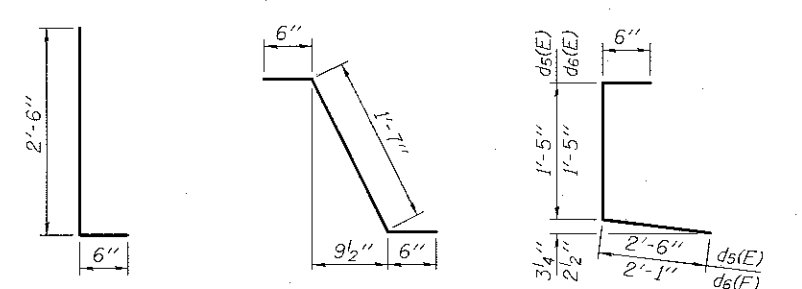


SECTION B-B
(Near Center Roadway)

* Prior to 1/4" Diamond Grinding.



TYPICAL PARAPET SECTION



BARS d(E) & d2(E) BAR d1(E) BARS d5(E) & d6(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	20	#5	17'-10"	—
a1(E)	20	#5	21'-10"	—
a2(E)	12	#6	5'-0"	—
d(E)	12	#5	3'-0"	L
d1(E)	12	#5	2'-7"	L
d2(E)	12	#4	3'-0"	L
d5(E)	6	#4	4'-5"	L
d6(E)	6	#4	4'-0"	L
h(E)	8	#6	18'-9"	—
h1(E)	8	#6	22'-9"	—
Concrete Removal			Cu. Yd.	12.8
Concrete Superstructure			Cu. Yd.	14.0
Reinforcement Bars, Epoxy Coated			Lbs.	1540

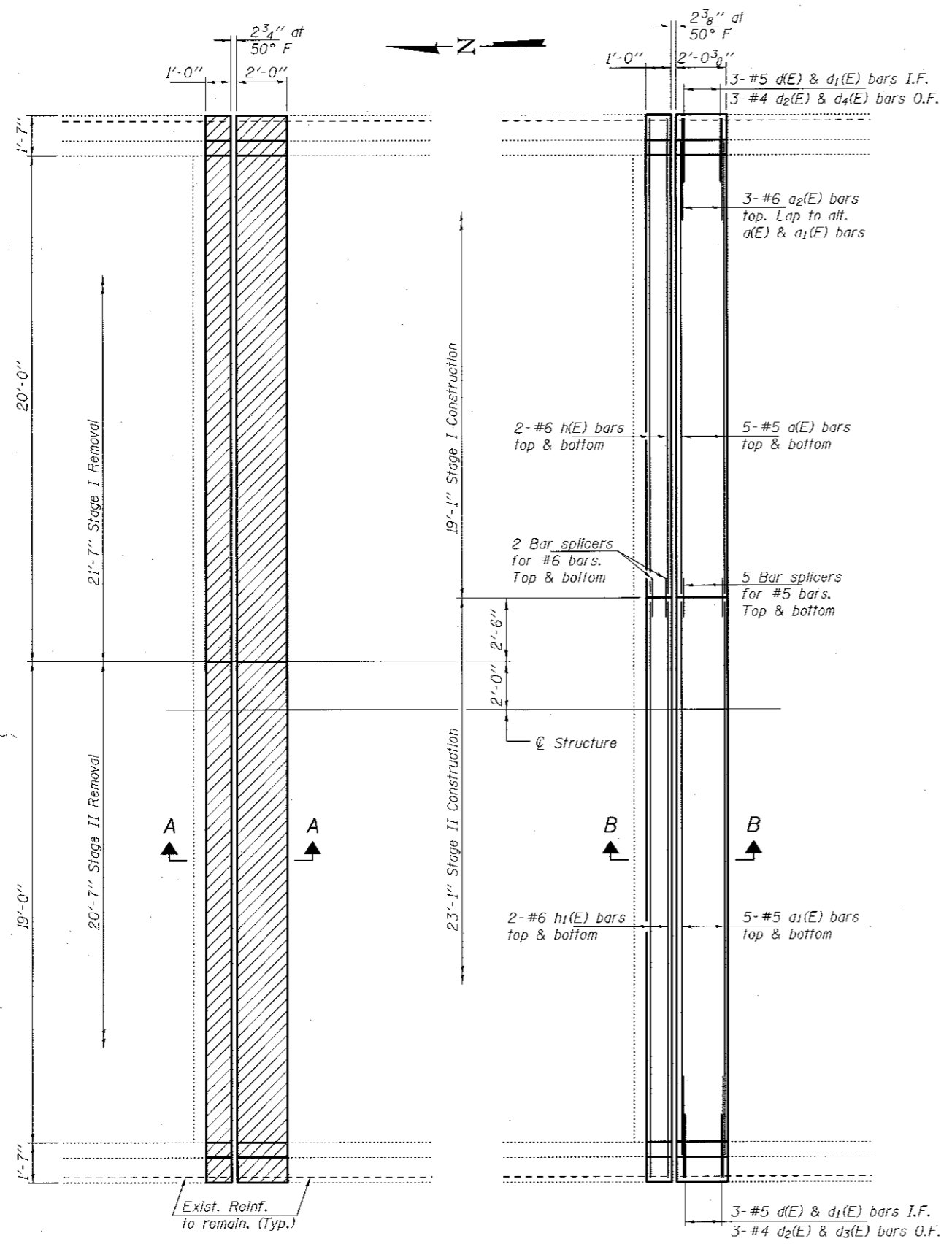
DESIGNED <i>MLD</i>	EXAMINED <i>Timothy A. Mallett</i>	DATE <i>MARCH 22, 2018</i>
CHECKED <i>RPN</i>	ENGINEER OF STRUCTURAL SERVICES	
DRAWN <i>ballva</i>	PASSED <i>Carl Pappas</i>	REVISOR
CHECKED <i>MLD RPN</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 037-0029

SHEET NO. 2 OF 10 SHEETS

F.A.I. RTE. 80	SECTION D2 BDR 2018-1	COUNTY HENRY	TOTAL SHEETS 31	SHEET NO. 23
				CONTRACT NO. 64M63
ILLINOIS FED. AID PROJECT				

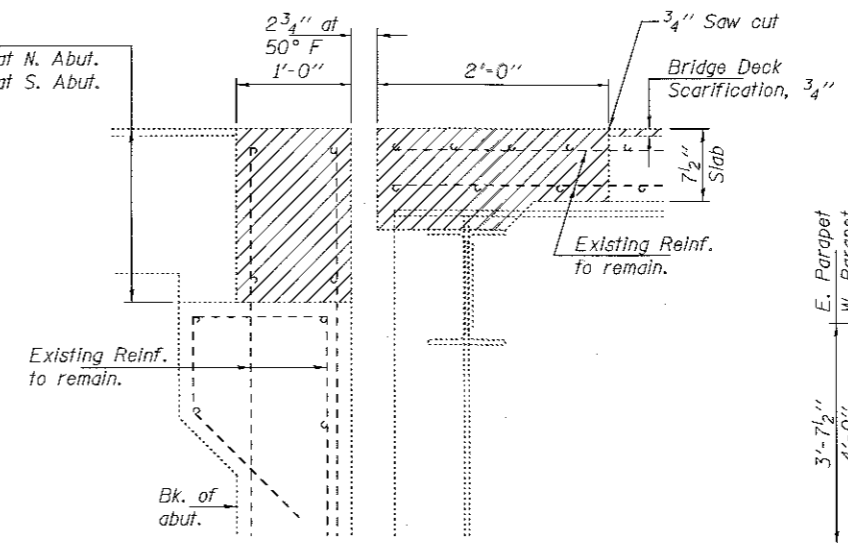


REMOVAL PLAN
(North and South abutment)

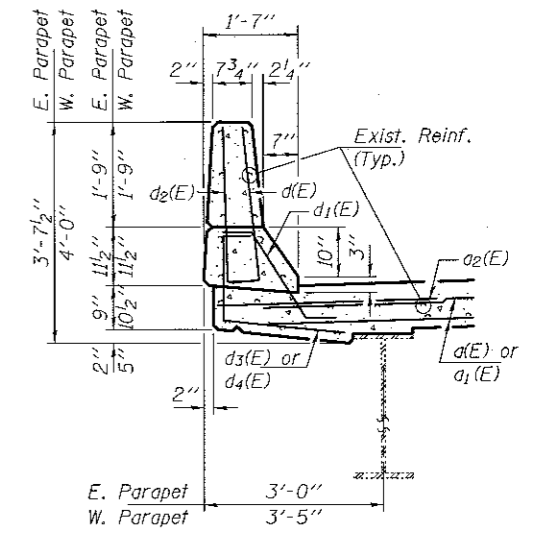
REPLACEMENT PLAN
(North and South abutment)

Note: Hatched areas indicate removal.

Varies from
1'-4 1/2" to 2'-0 3/8" at N. Abut.
1'-4 5/8" to 2'-0 1/2" at S. Abut.

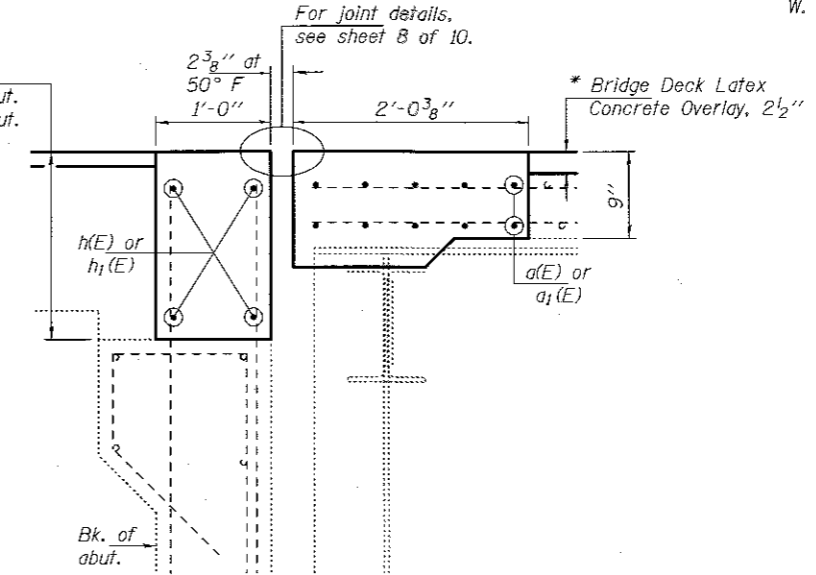


SECTION A-A
(Near & Roadway)



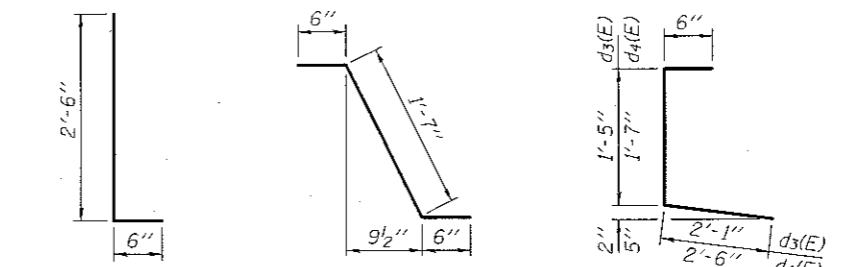
TYPICAL PARAPET SECTION

Varies from
1'-6" to 2'-1 7/8" at N. Abut.
1'-6 1/8" to 2'-2" at S. Abut.



SECTION B-B
(Near & Roadway)

* Prior to 1/4" Diamond Grinding.



BARS d(E) & d2(E) BAR d1(E) BARS d3(E) & d4(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	20	#5	17'-10"	—
a1(E)	20	#5	21'-10"	—
a2(E)	12	#6	5'-0"	—
d(E)	12	#5	3'-0"	L
d1(E)	12	#5	2'-7"	L
d2(E)	12	#4	3'-0"	L
d3(E)	6	#4	4'-0"	L
d4(E)	6	#4	4'-7"	L
h(E)	8	#6	18'-9"	—
h1(E)	8	#6	22'-9"	—
Concrete Removal			Cu. Yd.	12.8
Concrete Superstructure			Cu. Yd.	13.9
Reinforcement Bars, Epoxy Coated			Lbs.	1540

DESIGNED <i>MLD</i>	EXAMINED <i>Timothy A. ...</i>	DATE MARCH 22, 2018
CHECKED <i>RPN</i>	PASSED <i>Carl ...</i>	REVISED
DRAWN <i>baliva</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED <i>MLD RPN</i>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

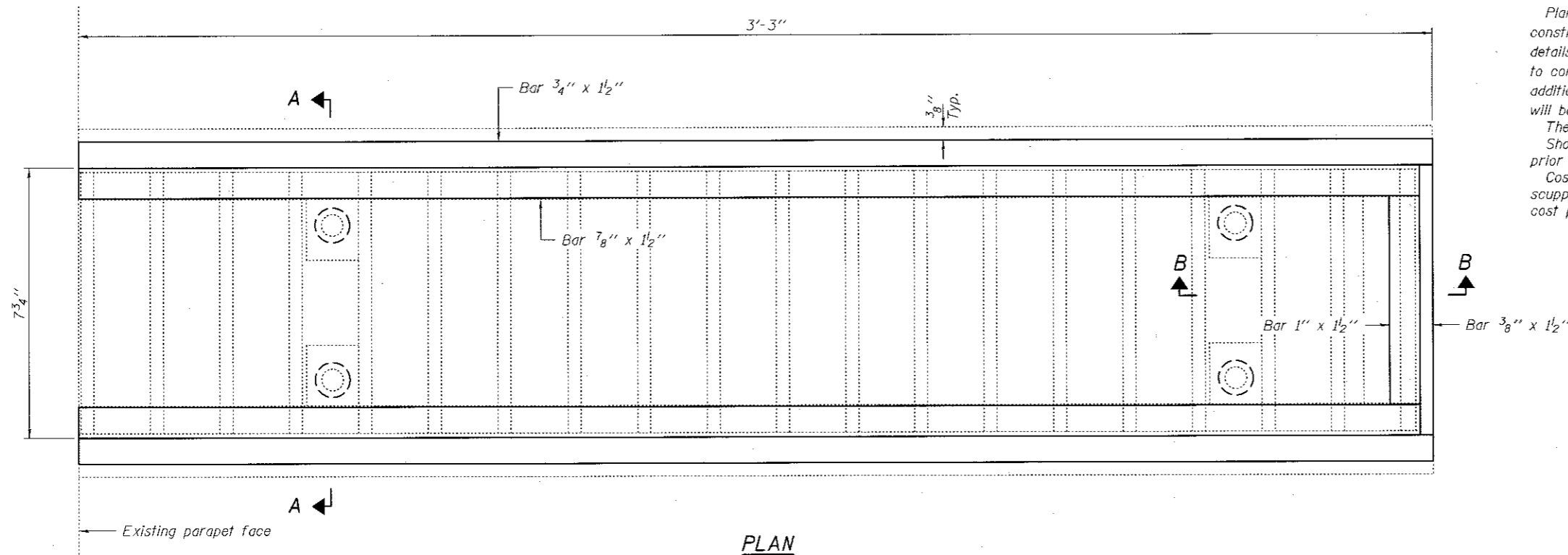
REPAIR DETAILS
SN 037-0030

SHEET NO. 3 OF 10 SHEETS

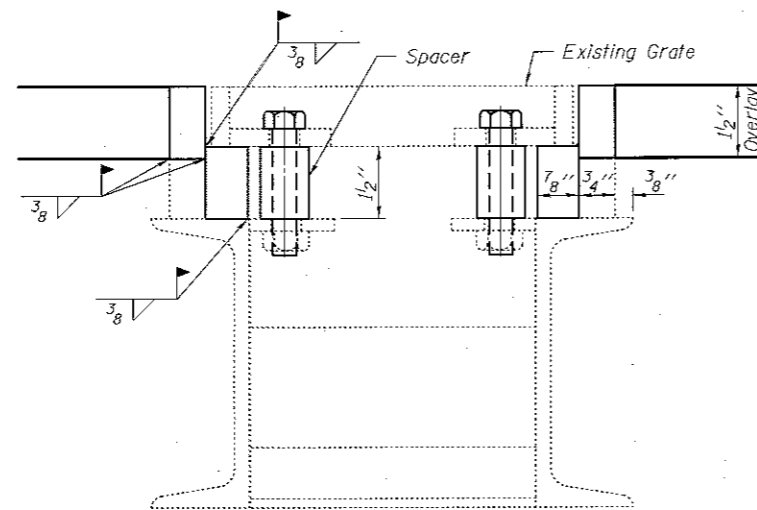
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BR 2018-1	HENRY	31	24
CONTRACT NO. 64M63			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

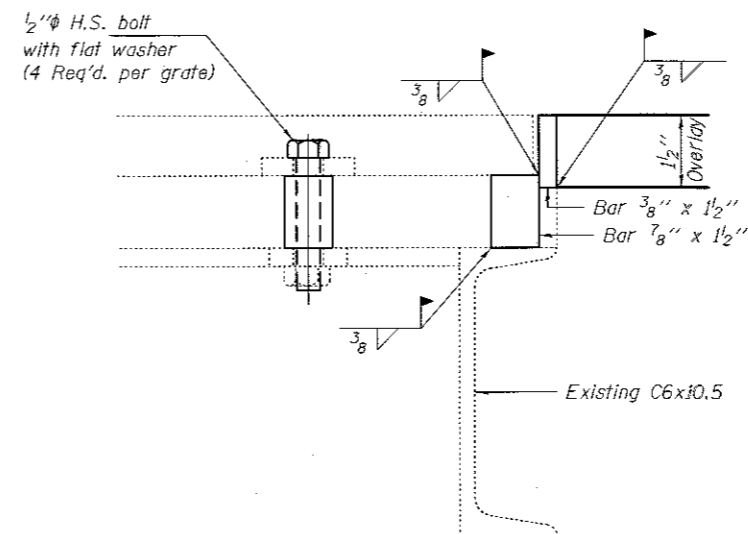
All structural steel shall conform to AASHTO Classification M-270 Gr. 36. The adjusting scupper ring shall be galvanized. Bolts shall be 1/2"φ, AASHTO M164 Type I, mechanically galvanized. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor 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. The contractor shall ensure that no damage is done to existing grates to be reused. Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Adjust Existing Scupper.



PLAN



SECTION A-A



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Adjust Existing Scupper	Each	4

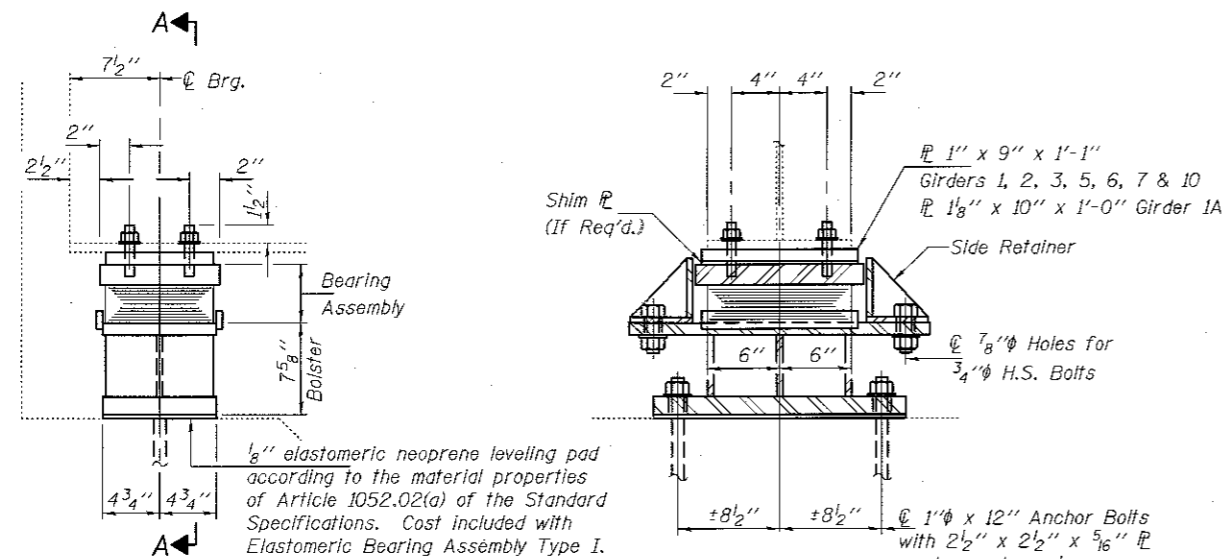
DESIGNED <i>MLD</i>	EXAMINED <i>Timothy A. [Signature]</i>	DATE <i>MARCH 22, 2018</i>
CHECKED <i>RPN</i>	ENGINEER OF STRUCTURAL SERVICES	
DRAWN <i>balva</i>	PASSED <i>Carl [Signature]</i>	REVISOR
CHECKED <i>MLD RPN</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADJUSTING EXISTING SCUPPER
SN 037-0029 & 0030**

SHEET NO. 4 OF 10 SHEETS

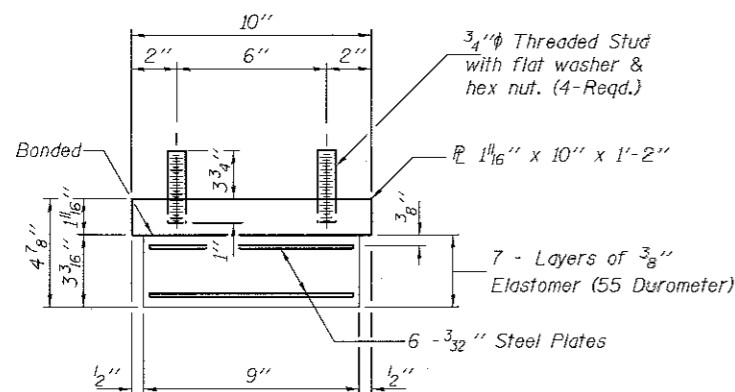
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	31	25
CONTRACT NO. 64M63			ILLINOIS FED. AID PROJECT	



ELEVATION AT ABUT.

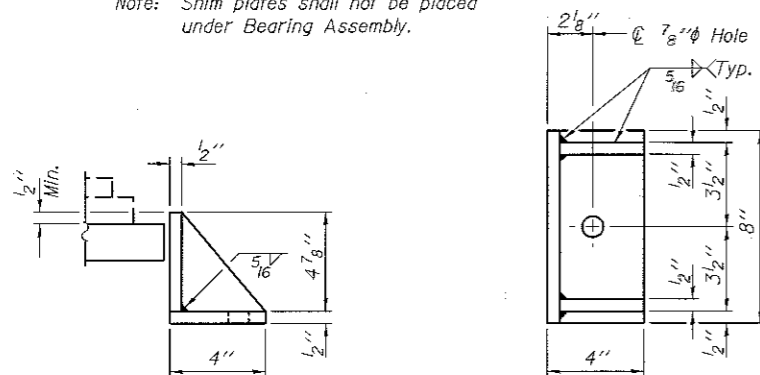
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

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



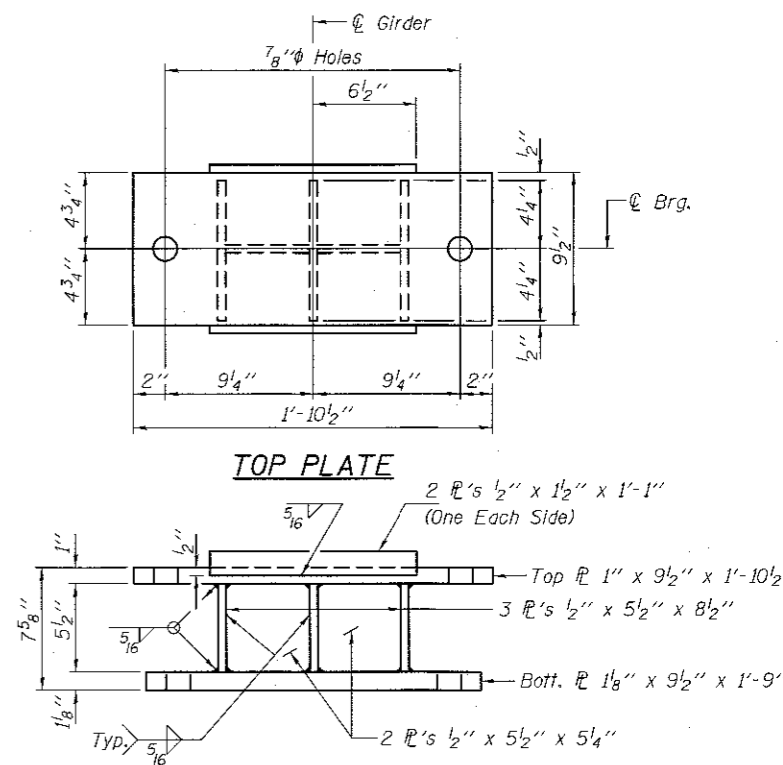
SIDE RETAINER

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

GIRDER REACTIONS

	Girder 1A	Girders 1, 2, 3, 5, 6, 7 & 10
R _P (K)	35.1	39.0
R _L (K)	37.0	43.1
Imp. (K)	8.9	10.3
R (Total) (K)	81.0	92.4

Notes:
 Diaphragm removal and installation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. Jack capacity = 55 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

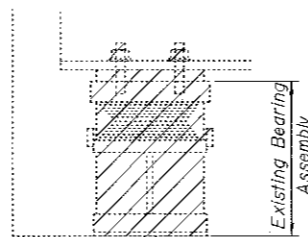


TOP PLATE

ELEVATION

BOTTOM PLATE

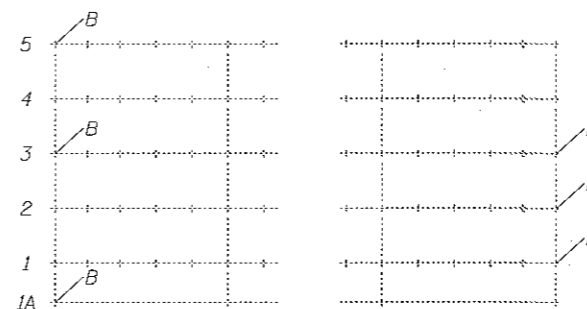
BOLSTER



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.



STRUCTURE NO. 037-0030 (N.B.)

STRUCTURE NO. 037-0029 (S.B.)

B = Bearing replacement

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	10
Jack and Remove Existing Bearings	Each	10
Furnishing and Erecting Structural Steel	Pound	1930
Anchor Bolts 1"φ	Each	40

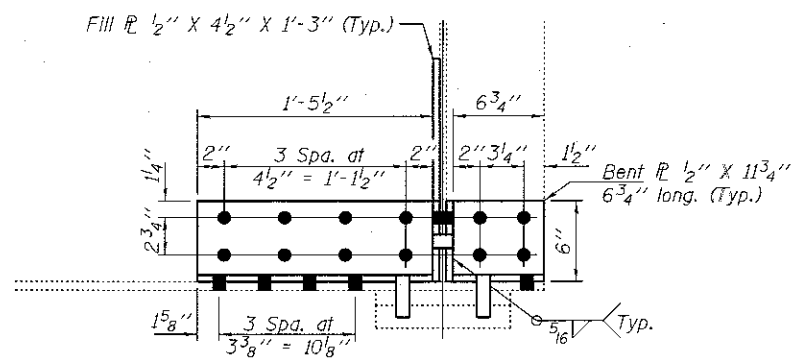
DESIGNED MLD	EXAMINED	DATE MARCH 22, 2018
CHECKED RPN	ENGINEER OF STRUCTURAL SERVICES	
DRAWN baliva	PASSED	REVISOR
CHECKED MLD RPN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

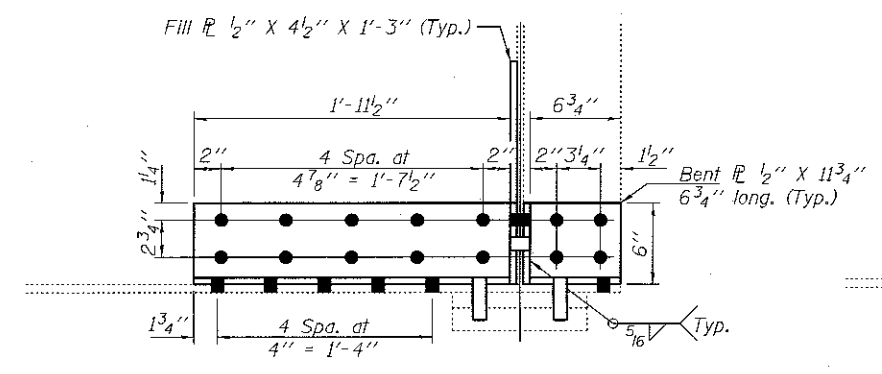
BEARING REPLACEMENT DETAILS
 SN 037-0029 & 0030

SHEET NO. 5 OF 10 SHEETS

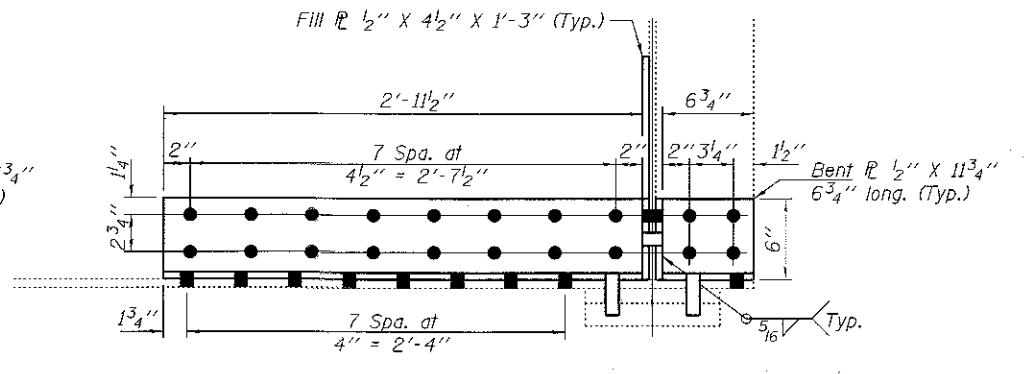
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BOR 2018-1	HENRY	31	26
			CONTRACT NO. 64M63	
ILLINOIS FED. AID PROJECT				



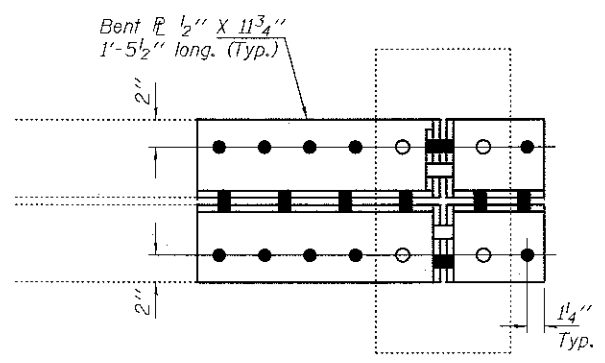
ELEVATION IN, 6N & 5S



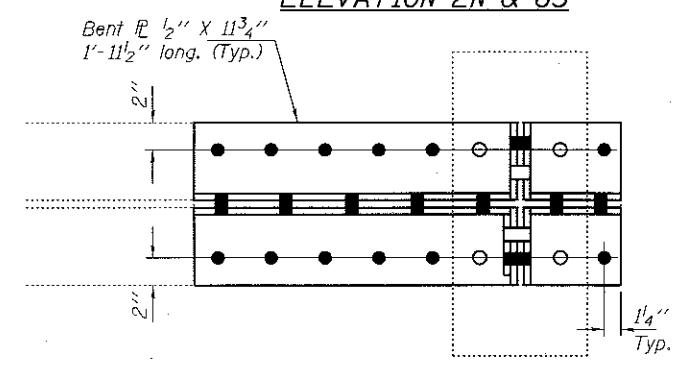
ELEVATION 2N & 6S



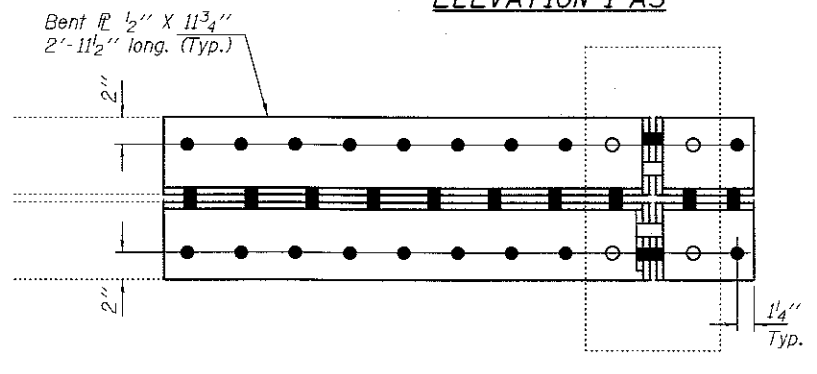
ELEVATION 1AS



PLAN BEAMS 5S & 6N

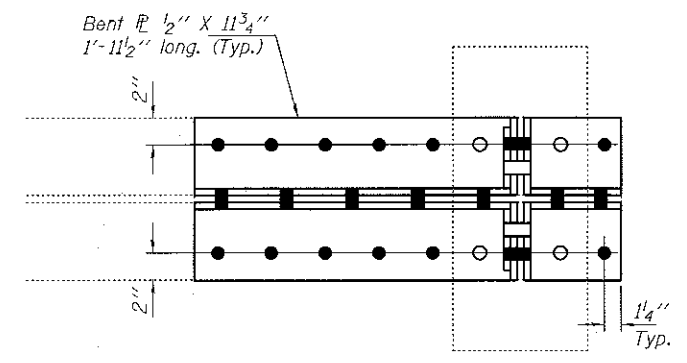


PLAN BEAM 6S

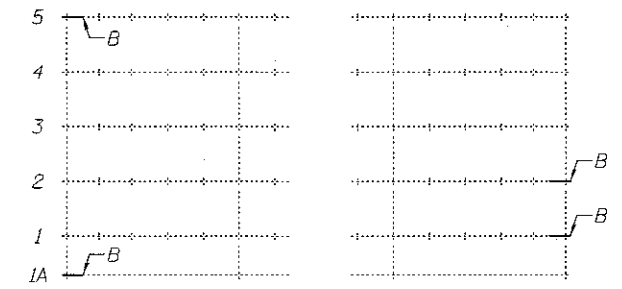


PLAN BEAM 1AS

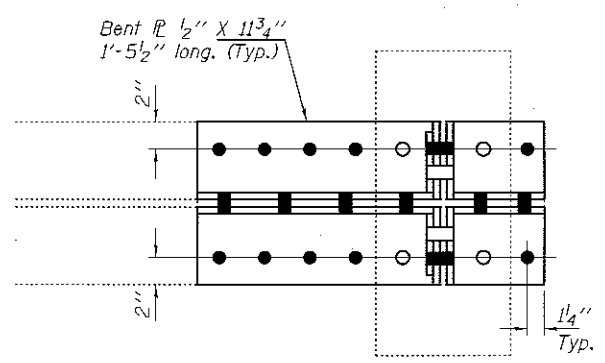
- - Use holes in new steel as template
- - Use holes in existing steel as template



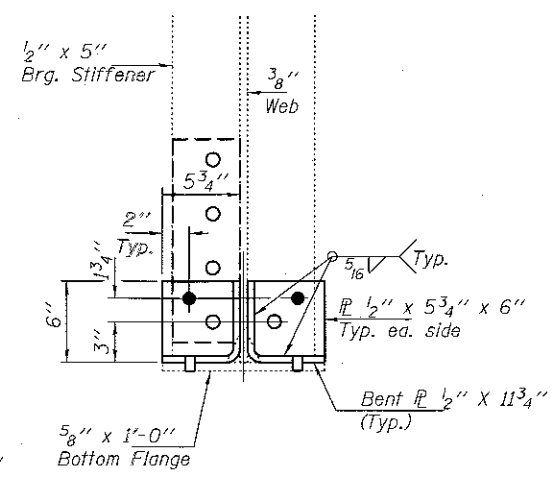
PLAN BEAM 2N



STRUCTURE NO. 037-0030 (N.B.)

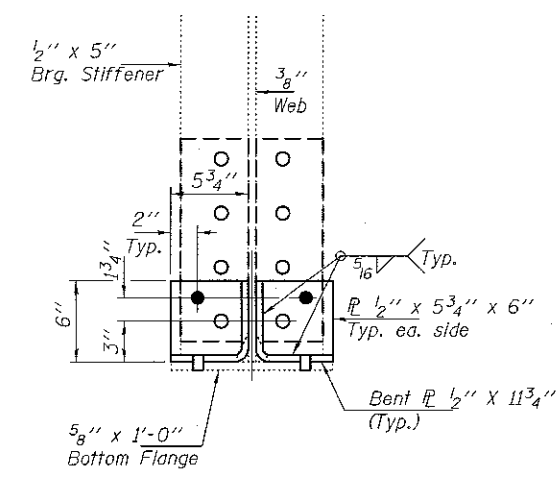


PLAN BEAM IN



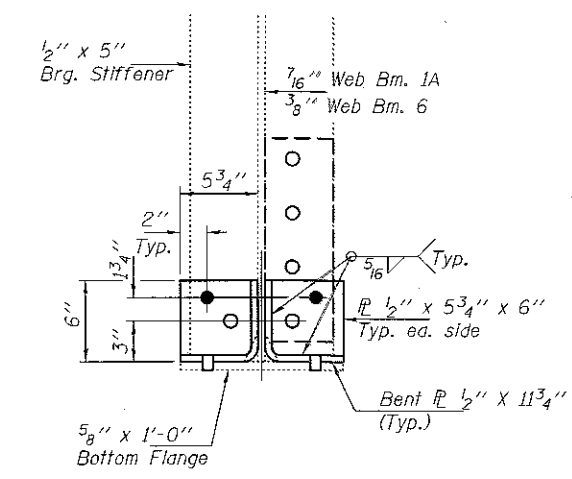
TYP. END SECTION BEAMS 5S & 6N

Crossframe not shown for clarity



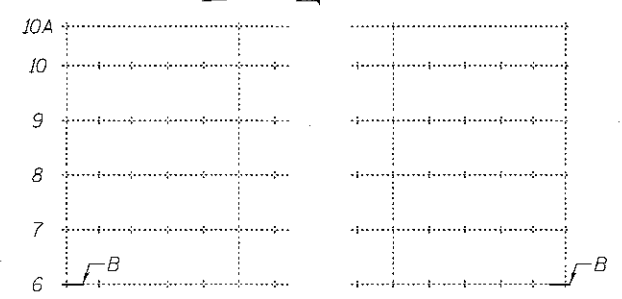
TYP. END SECTION BEAMS IN & 2N

Crossframe not shown for clarity



TYP. END SECTION BEAMS 1AS & 6S

Crossframe not shown for clarity



STRUCTURE NO. 037-0029 (S.B.)

B = Beam end repair

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	940

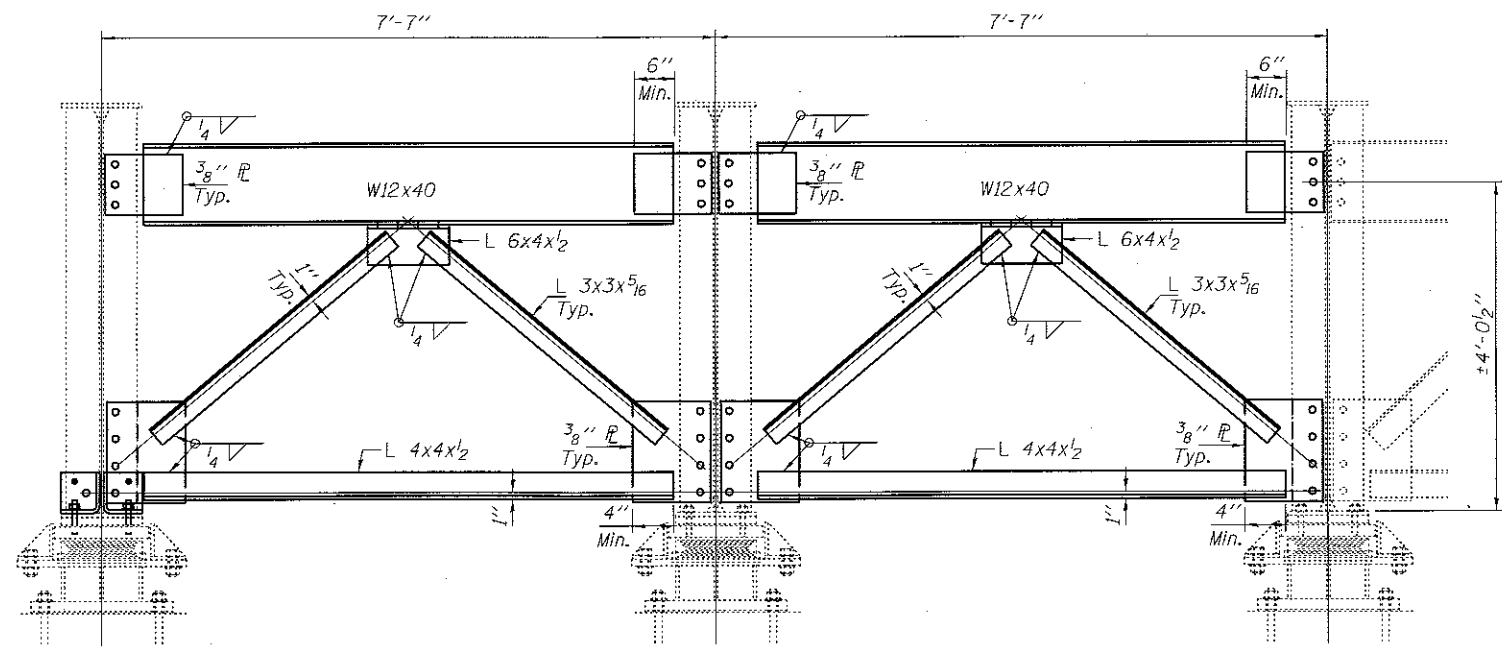
DESIGNED MLD	EXAMINED <i>Imoty A. Analt</i>	DATE MARCH 22, 2018
CHECKED RPN	ENGINEER OF STRUCTURAL SERVICES	
DRAWN baliva	PASSED <i>Carl Kasper</i>	REVISED
CHECKED MLD RPN	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM END REPAIR DETAILS
SN 037-0029 & 0030

SHEET NO. 6 OF 10 SHEETS

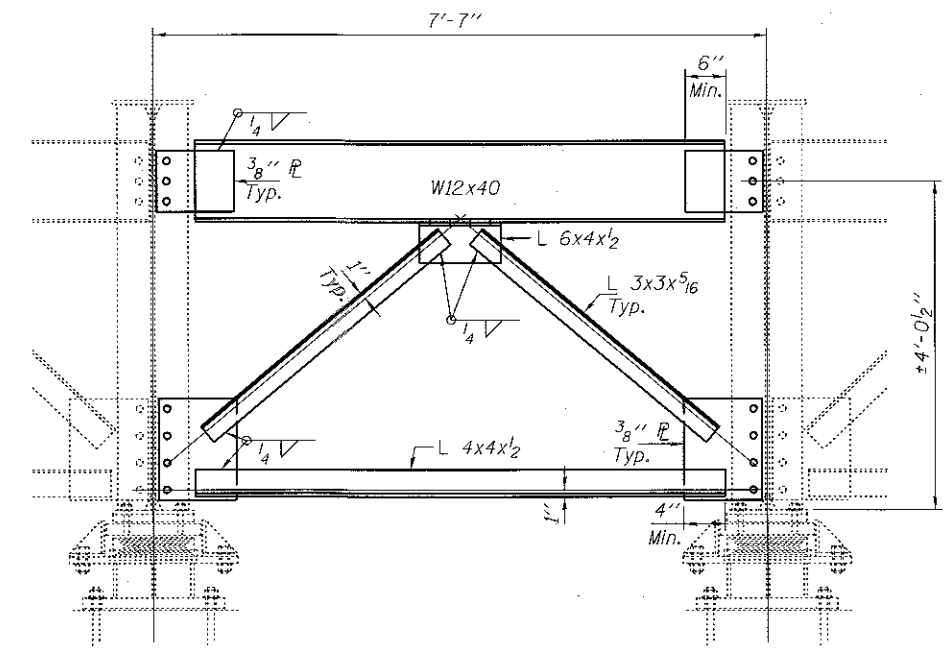
F.A.J. RTE. 80	SECTION D2 BDR 2018-1	COUNTY HENRY	TOTAL SHEETS 31	SHEET NO. 27
				CONTRACT NO. 64M63
ILLINOIS FED. AID PROJECT				



BEAM 6S

BEAM 7S

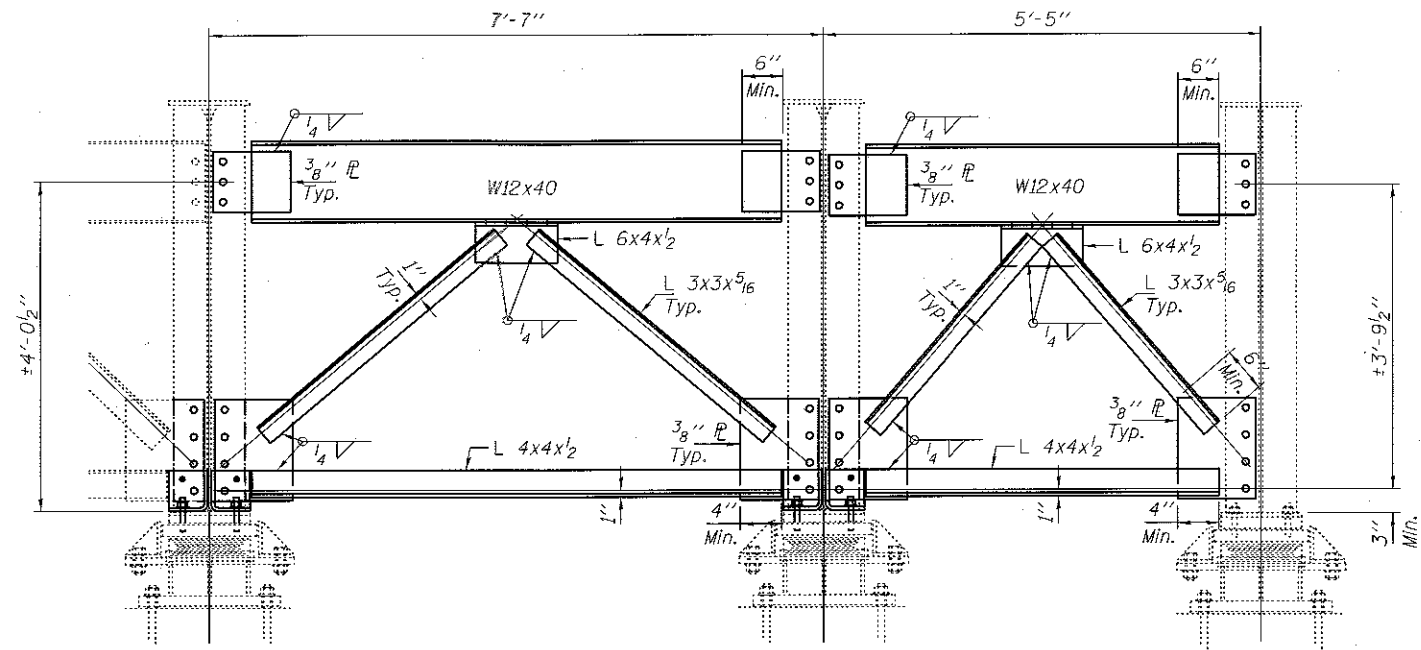
BEAM 8S



BEAM 9S

BEAM 10S

SN 037-0029
(Looking South)

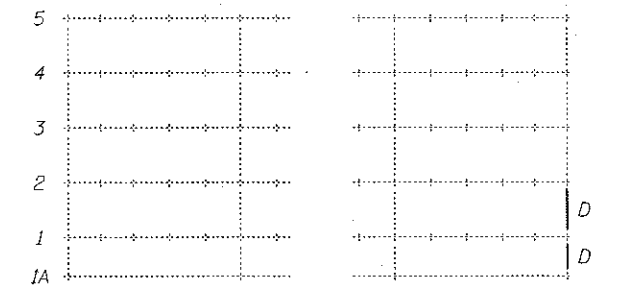


BEAM 2N

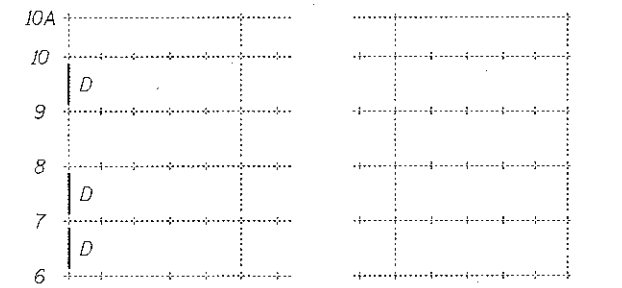
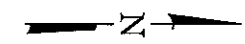
BEAM 1N

BEAM 1AN

SN 037-0030
(Looking North)



STRUCTURE NO. 037-0030 (N.B.)



STRUCTURE NO. 037-0029 (S.B.)

D = Crossframe replacement

BILL OF MATERIAL

Item	Unit	Total
Steel Removal	Pound	1720
Furnishing and Erecting Structural Steel	Pound	2200

For bearing replacement details, see sheet 5 of 10.
For beam end repair details, see sheet 6 of 10.

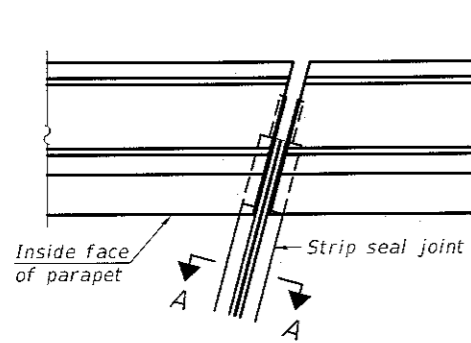
DESIGNED MLD	EXAMINED <i>Timothy A. Melt</i>	DATE MARCH 22, 2018
CHECKED RPN	ENGINEER OF STRUCTURAL SERVICES	
DRAWN ballva	PASSED <i>Carl Perry</i>	REVISOR
CHECKED MLD RPN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSSFRAME REPAIR DETAILS
SN 037-0029 & 0030

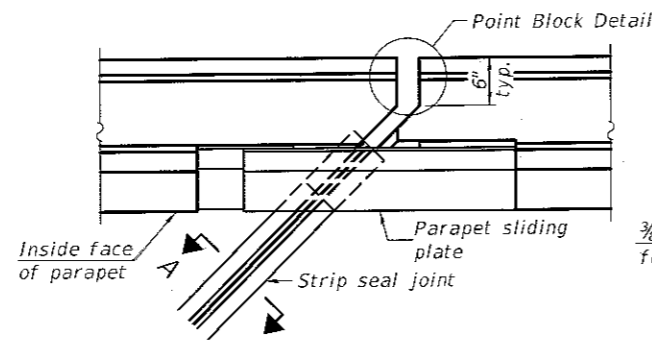
SHEET NO. 7 OF 10 SHEETS

F.A.I. RTE. 80	SECTION D2 BDR 2018-1	COUNTY HENRY	TOTAL SHEETS 31	SHEET NO. 28
				CONTRACT NO. 64M63
ILLINOIS FED. AID PROJECT				

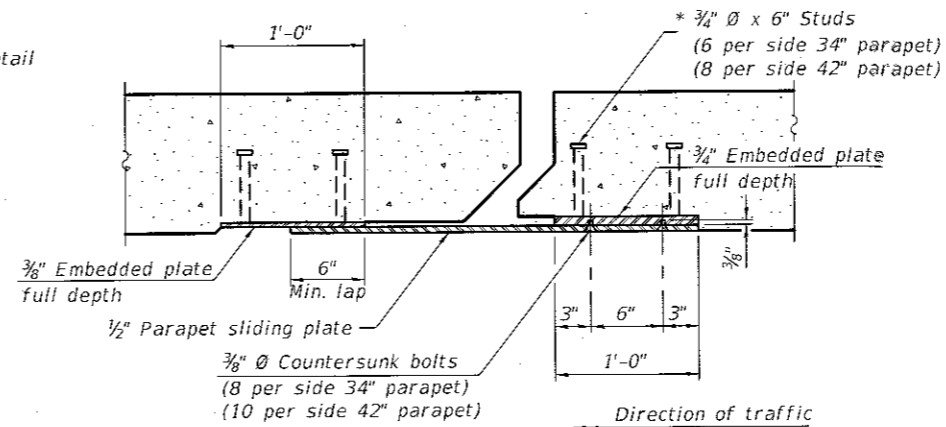


FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

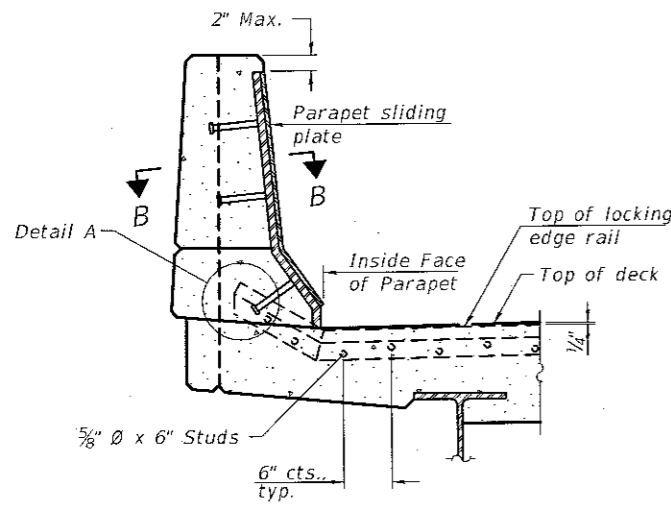


FOR SKEWS $> 30^\circ$



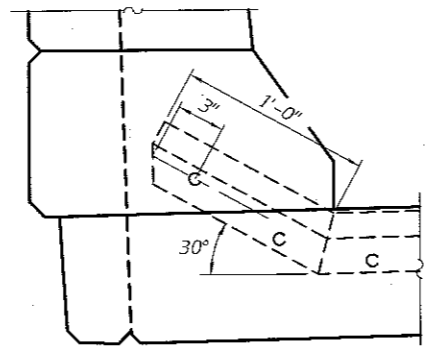
SECTION B-B

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 configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 34" F-shape barrier shown, 42" F-shape similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

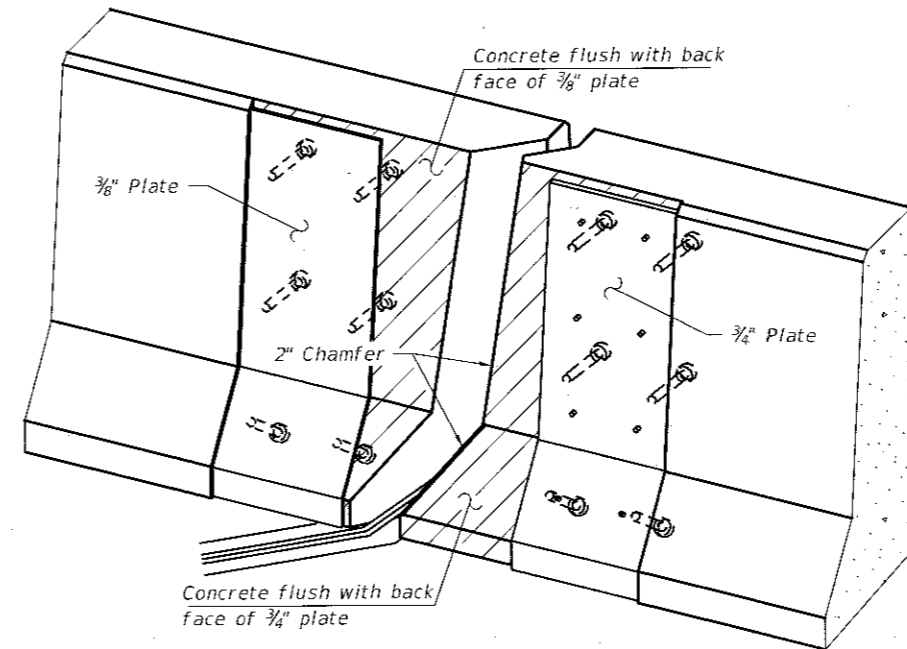


ELEVATION AT PARAPET

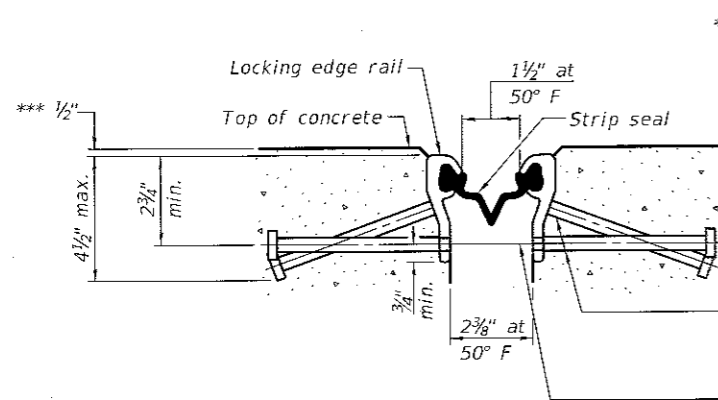
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

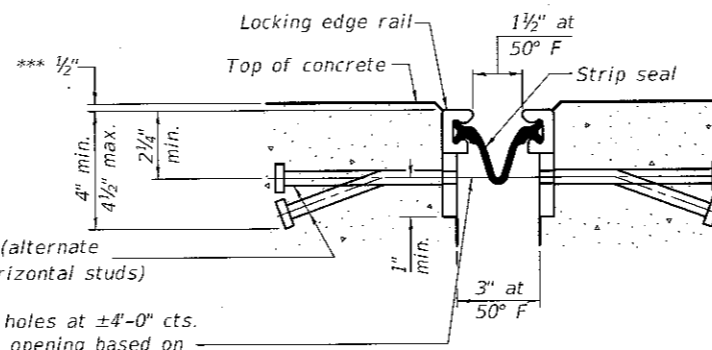


TRIMETRIC VIEW
 (Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

*** Prior to 1/4" Diamond Grinding.

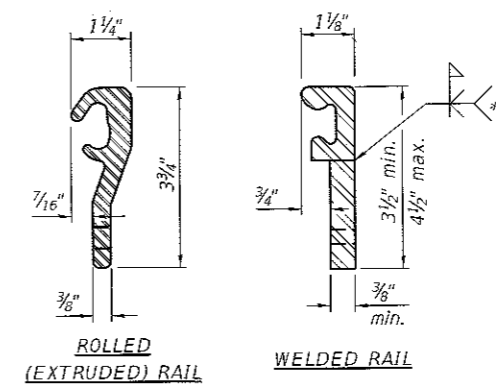


SHOWING WELDED RAIL JOINT

* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" ϕ threaded rods in 7/16" ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

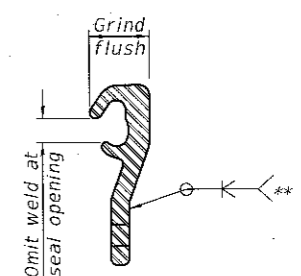
SECTION A-A

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



LOCKING EDGE RAILS

** Back gouge 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	164

EJ-SS

8-11-17

DESIGNED MLD
 CHECKED RPN
 DRAWN baliva
 CHECKED MLD RPN

EXAMINED *Timothy A. Anz...*
 ENGINEER OF STRUCTURAL SERVICES
 PASSED *Carl...*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 22, 2018
 REVISED
 REVISED

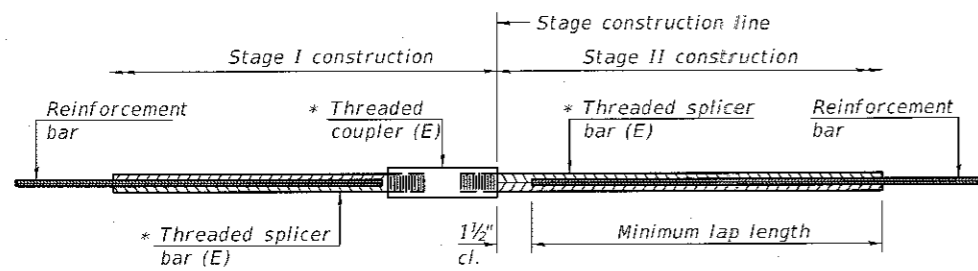
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 037-0029 & 0030

SHEET NO. 8 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	D2 BDR 2018-1	HENRY	31	29

CONTRACT NO. 64M63
 ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

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

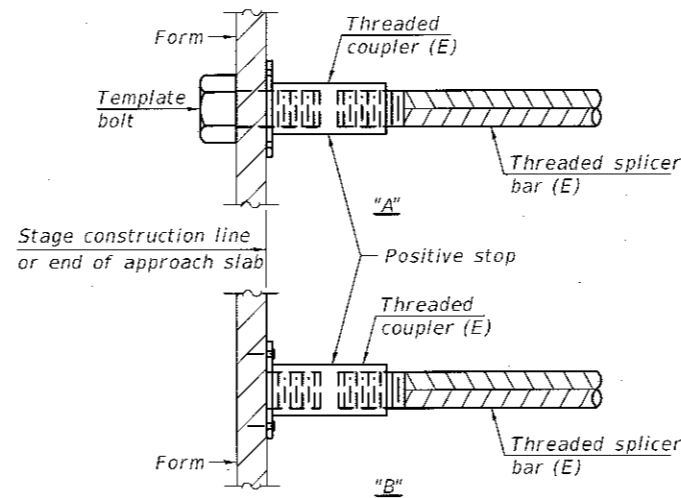
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

SN 037-0029

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. (Deck)	#5	10	3'-6"
N. Abut. (HB)	#6	4	4'-0"
S. Abut. (Deck)	#5	10	3'-6"
S. Abut. (HB)	#6	4	4'-0"

SN 037-0030

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. (Deck)	#5	10	3'-6"
N. Abut. (HB)	#6	4	4'-0"
S. Abut. (Deck)	#5	10	3'-6"
S. Abut. (HB)	#6	4	4'-0"

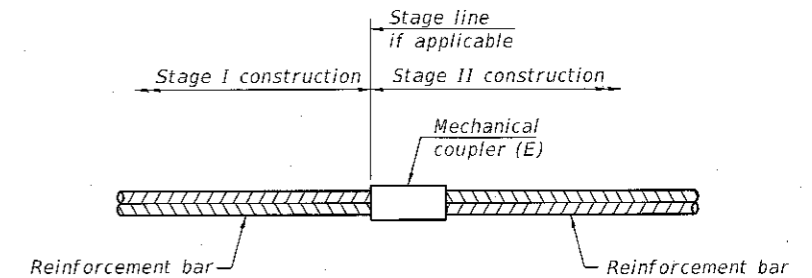


INSTALLATION AND SETTING METHODS

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

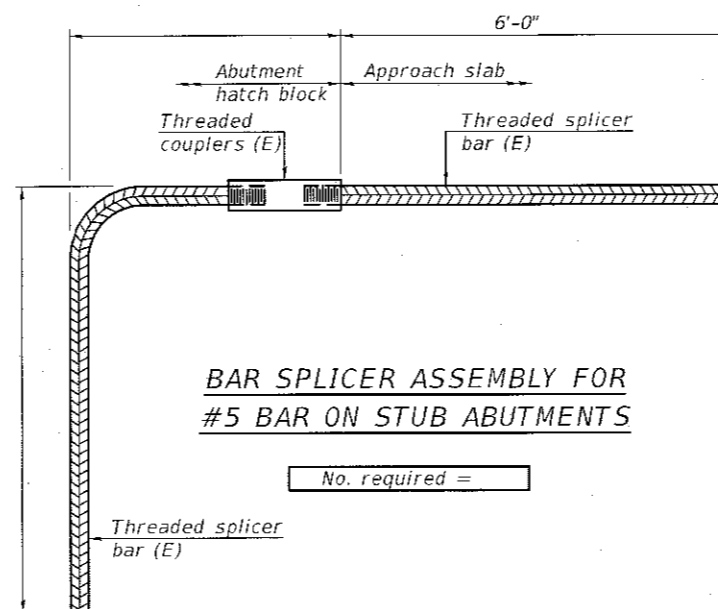
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON 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

2-17-2017

DESIGNED <i>MLD</i>	EXAMINED <i>Timothy A. Anhalt</i>	DATE <i>MARCH 22, 2018</i>
CHECKED <i>RPN</i>	<i>Timothy A. Anhalt</i> ENGINEER OF STRUCTURAL SERVICES	REVISOR
DRAWN <i>baliva</i>	<i>Carl Perry</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISION
CHECKED <i>MLD, RPN</i>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

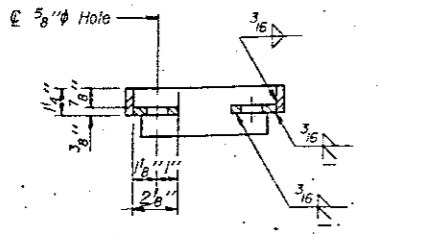
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 037-0029 & 0030**

SHEET NO. 9 OF 10 SHEETS

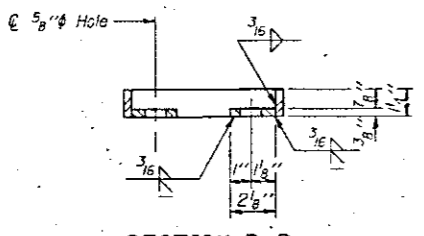
F.A.I. RTE. 80	SECTION 02 BOR 2018-1	COUNTY HENRY	TOTAL SHEETS 31	SHEET NO. 30
CONTRACT NO. 64M63			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

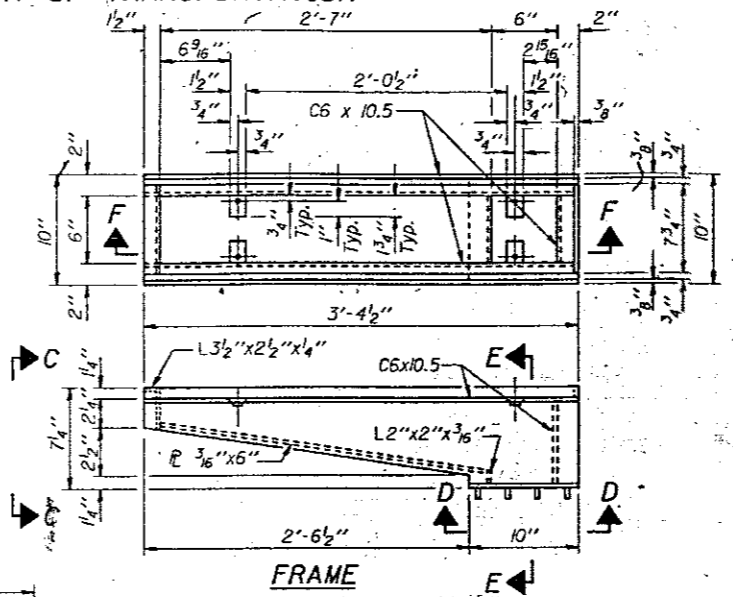
ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.
80	37-18R-2	HENRY	147	102
SHEET NO. 23 25 SHEETS				



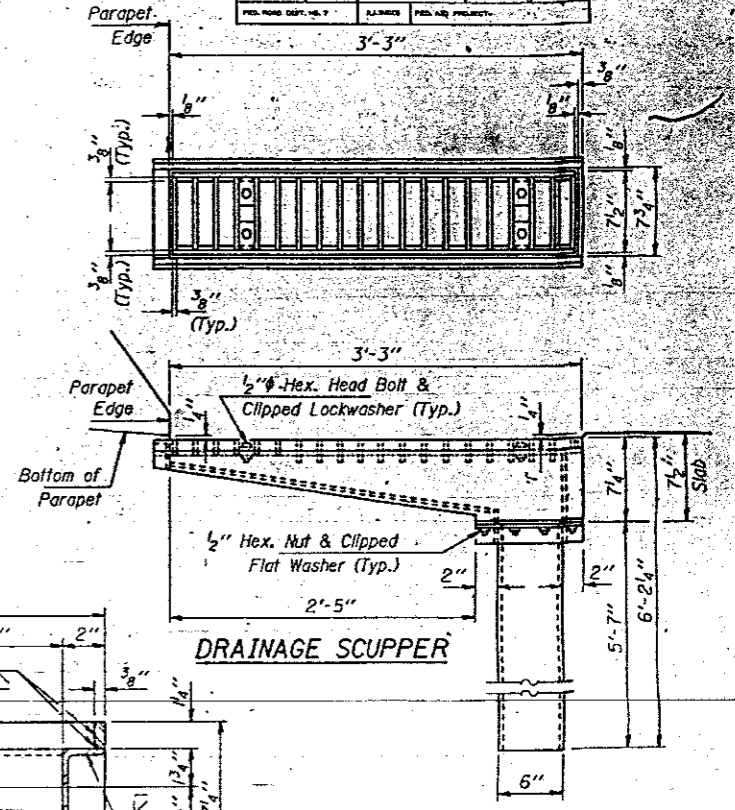
SECTION A-A



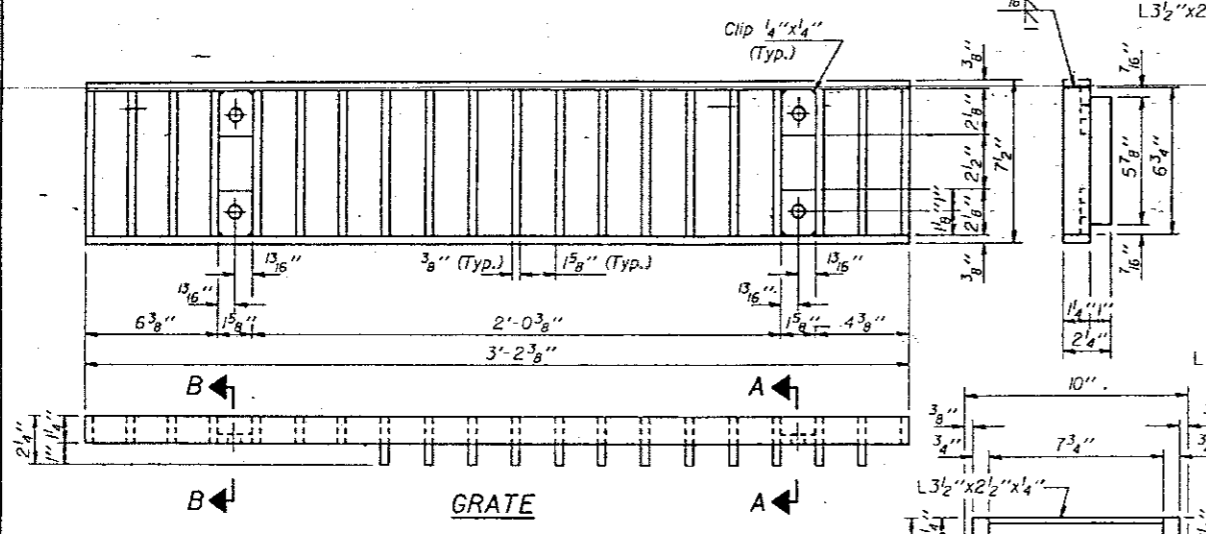
SECTION B-B



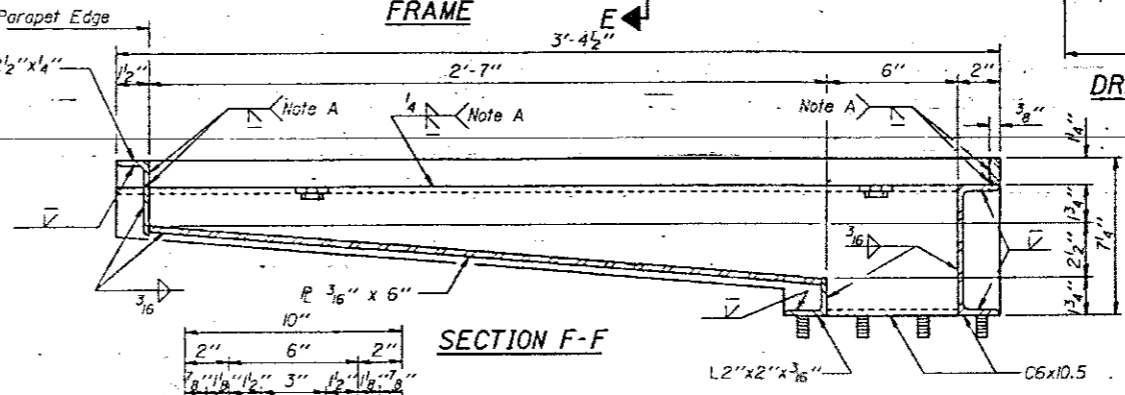
FRAME



DRAINAGE SCUPPER

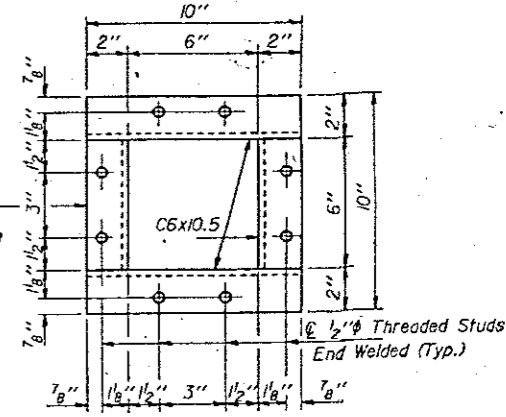


GRATE



SECTION F-F

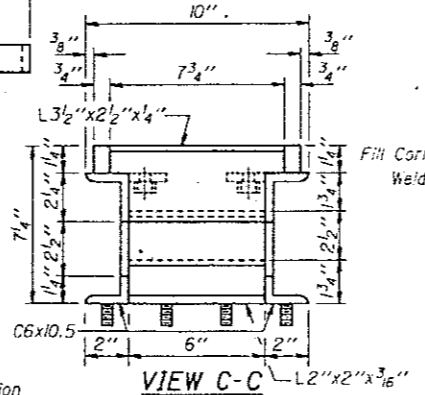
Note A: Surface of welds shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.



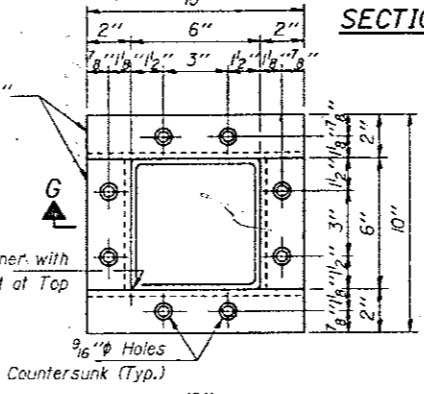
VIEW D-D

FOR INFORMATION ONLY

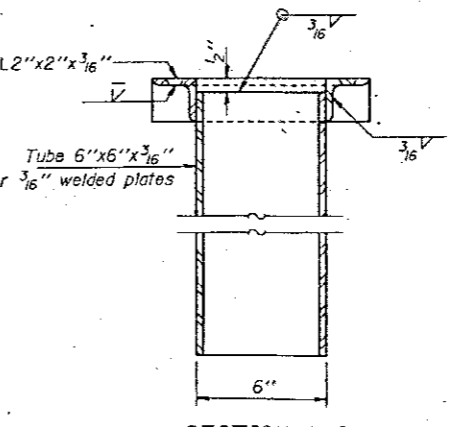
Notes:
Hollow structural steel tubing shall conform to the requirements of ASTM designation A500 Grade B, or A501 Structural Steel Tubing.
All other shapes, plates and bars shall conform to the requirements of AASHTO M183.
Bolts, studs, washers and nuts shall conform to the requirements of ASTM A307.
The Grate, Frame and Downspout shall be galvanized after shop fabrication in accordance with AASHTO M111 & ASTM A385.
All bolts, washers and nuts shall be galvanized in accordance with AASHTO M232.
Cost of the Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper will be paid for at the unit bid price for "DRAINAGE SCUPPERS."



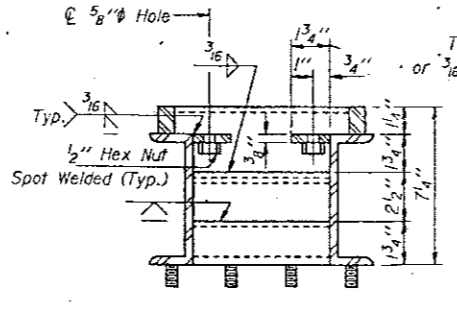
VIEW C-C



DOWNSPOUT



SECTION G-G



SECTION E-E

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper	Each	8

(Sheet 1 of 2)
STEEL DRAINAGE SCUPPER
F.A.I. RT. 80 SEC. 37-18R-2
HENRY COUNTY
STA. 481+84.00

DESIGNED: Robert B. Biza
CHECKED: Steve S. M...
DRAWN: John F. Schneller Jr.
CHECKED: R.T.B. REA

EXAMINED: Craig J. Kaspar
PASSED: James J. Robinson
APPROVED: [Signature]

DS-3 12-1-B3 (W.T. to inside of exterior stringer flange shall not be > 3'-11")