

03-08-2019 LETTING ITEM 090

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-5	HENRY	#25	1
CONTRACT NO. 64N29				

*25 + 1 = 26 TOTAL SHEETS

D-92-075-18



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

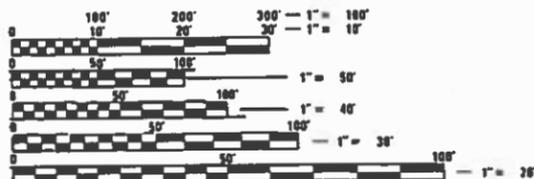
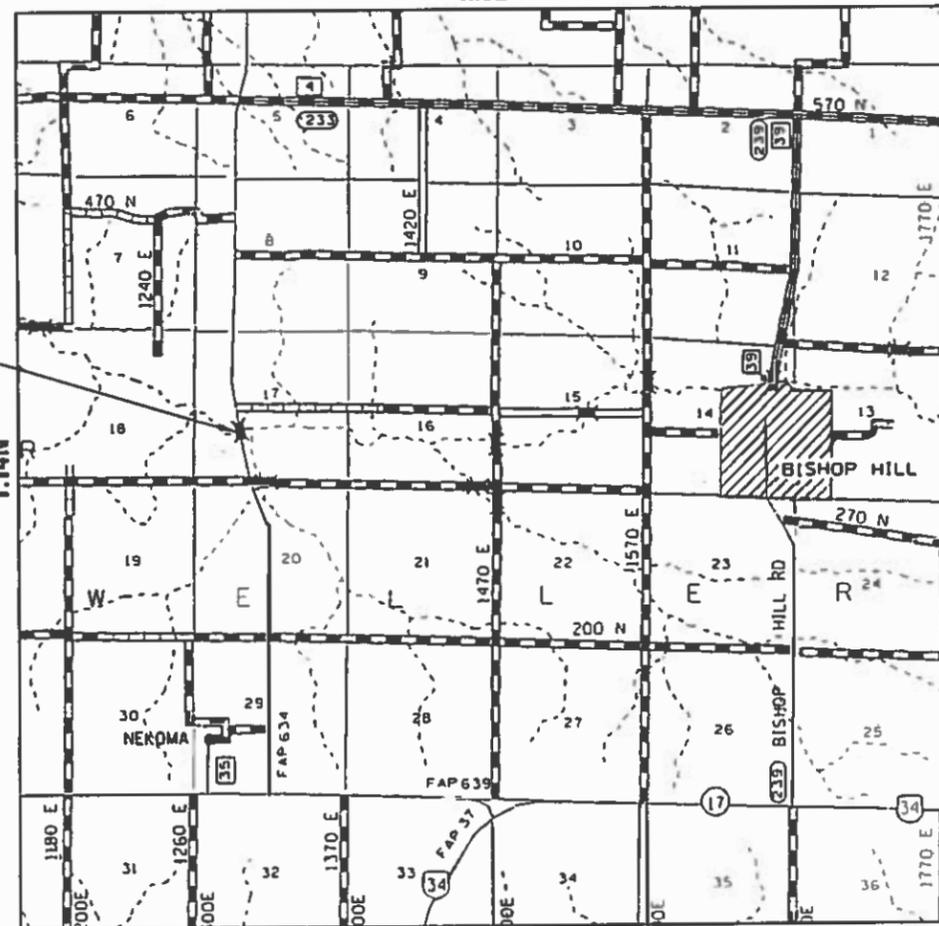
PROPOSED HIGHWAY PLANS

FAP ROUTE 634 (IL 82)
SECTION D2 BDR 2019-5
PROJECT
EXPANSION JOINT REPLACEMENT, CONCRETE
OVERLAY, REPAIR & PT. BEAM ENDS
HENRY COUNTY

C-92-006-19

R.3E

WELLER TOWNSHIP - SECTION 17



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: MAHMOUD ETEMADI, EXT. 393
PROJECT MANAGER: MAHMOUD ETEMADI, EXT. 393

CONTRACT NO. 64N29

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 21, 2018
Kevin J. Juchacz
REGIONAL ENGINEER

Feb 1, 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1, 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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- 18 - 21 Work Zone Sign Details 34.1
- 22 Traffic Control for Road Closure (DS 40.1)
- 23 - 25 Typical Pavement Markings (DS 41.1)

STATE STANDARDS

- 000001 - 07 Standard Symbols, Abbreviations, and Patterns
- 001001 - 02 Areas of Reinforcement Bars
- 001006 Decimal of an Inch and of a Foot
- 701006 - 05 Off - Road Operations, 2L, 2W, 15' to 24" From Pavement Edge
- 701011 - 04 Off-Road Moving Operations, 2L, 2W, Day Only
- 701201 - 05 Lane Closure, 2L, 2W, Day Only, for Speeds > 45MPH
- 701301 - 04 Lane Closure, 2L, 2W, Short Time Operations
- 701306 - 04 Lane Closure, 2L, 2W, Slow Moving Operations Day Only, for Speeds ≥ 45 MPH
- 701311 - 03 Lane Closure 2L, 2w Moving Operations Day Only
- 701901 - 08 Traffic Control Devices
- 720011 - 01 Metal Posts for Signs, Markers and Delineators
- 728001 - 01 Telescoping Steel Sign Support
- 729001 - 01 Applications for Types A and B Metal Posts (For Signs & Markers)
- 780001 - 05 Typical Pavement Markings
- 701001 - 02 OFF - ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY

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REV. - MS

	USER NAME = cushmanbw DESIGNED - DRAWN - JDH CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & STATE STANDARDS	F.A.P. RTE. 634	SECTION D2 BDR 2019-3	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 2	
				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64N29

REV. 2/4/19

GENERAL NOTES

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

This structure will retain the same number 037-0138.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

The following Mixture Requirements are applicable for this project:

Location(s):	
Mixture Use(s):	Surface
PG:	PG 64-22
Design Air Voids:	4.0 @N50
Mixture Composition (Mixture Gradation):	IL 9.5
Friction Aggregate:	C
Mixture Weight:	112 lbs.
Quality Management Program:	QC/QA
Sublot Size:	N/A
Number of Roller Passes ¹⁾ :	N/A

1) When a number of roller passes is specified, the Contractor may opt to use intelligent compaction in lieu of density testing under the Quality Control for Performance (QCP) program.

SUMMARY OF QUANTITIES

CONSTRUCTION CODE
S.N. 037-0138
100% STATE
BRIDGE
0047
RURAL

CODE NO.	ITEM	UNIT	TOTAL	RURAL
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	144.4	144.4
40600990	TEMPORARY RAMP	SQ YD	58	58
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	17	17
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	91	91
50300300	PROTECTIVE COAT	SQ YD	775	775
50102400	CONCRETE REMOVAL	CU YD	8.4	8.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.3	9.3
50300260	BRIDGE DECK GROOVING	POUND	717	717
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3160	3160
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1220	1220
52000110	PREFORMED JOINT STRIP SEAL	FOOT	69	69
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12
52100520	ANCHOR BOLTS, 1"	EACH	24	24

* SPECIALTY ITEM

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USER NAME = cushmanbw DRAWN - JDH CHECKED - DATE -	DESIGNED - REVISIONS - REVISIONS - REVISIONS - REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 634 SECTION D2 BDR 2019-3 COUNTY HENRY TOTAL SHEETS 25 SHEET NO. 4	CONTRACT NO. 64N29 ILLINOIS FED. AID PROJECT
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SUMMARY OF QUANTITIES

CONSTRUCTION CODE
S.N. 037-0138
100% STATE BRIDGE
0047 RURAL

CODE NO.	ITEM	UNIT	TOTAL	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CA MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	24	24
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	72	72
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1580	1580
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	2600	2600
* Z0001905	STRUCTURAL STEEL REPAIR	POUND	4010	4010
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	5	5
* Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	6	6
* Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	750	750
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
* Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	750	750
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
* Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	12	12
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

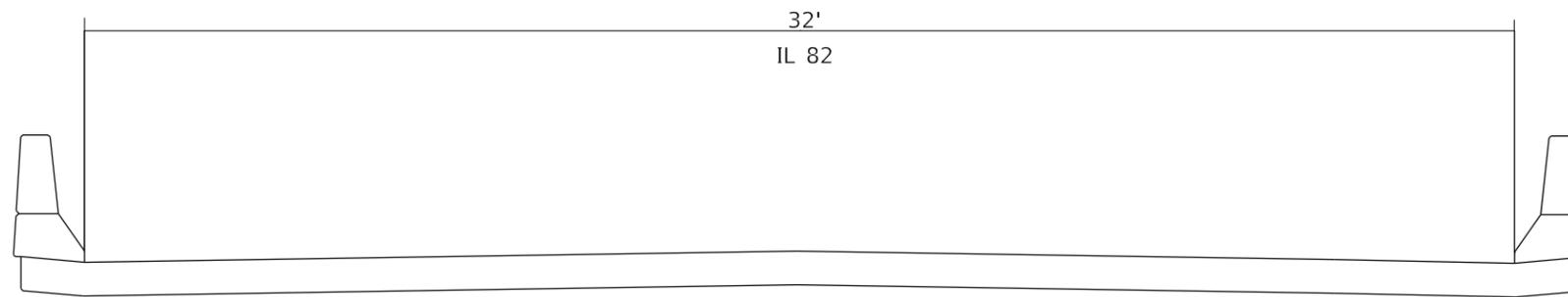
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	5
CONTRACT NO. 64N29				
ILLINOIS FED. AID PROJECT				

TYPICALS

SN 037-0138 OVER THE SOUTH BRANCH OF EDWARDS RIVER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS

SCALE: 1"=40' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-5	HENRY	25	6
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 64N29				

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

78001110

PAINT PAVEMENT MARKING - LINE

<u>SQ YD</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
72.2	72.2	125 + 81.00 - 126 + 6.00	MAINLINE
72.2	72.2	128 + 6.00 - 128 + 31.00	MAINLINE
144.4	144.4	TOTAL	
	144.4	GRAND TOTAL	

<u>FOOT</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
350	350	125 + 50.00 - 129 + 00	RT SIDE
90	90	125 + 50.00 - 129 + 00	CENTER LINE
350	350	125 + 50.00 - 129 + 00	LT SIDE
790	790	TOTAL	
	1580	GRAND TOTAL 2 COATS	

40600990 TEMPORARY RAMP

<u>SQ YD</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
28.9	29.0	126 + 6 - 126 + 16	MAINLINE
28.9	29.0	128 + 31 - 128 + 41	MAINLINE
57.8	58.0	TOTAL	
	58	GRAND TOTAL	

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

<u>TONS</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
8.5	8.5	125 + 81.00 - 126 + 16.00	MAINLINE
8.5	8.5	128 + 31.00 - 128 + 66.00	MAINLINE
17.0	17.0	TOTAL	
	17	GRAND TOTAL	

40800025 BITUMINOUS MATERIALS (PRIME COAT)

<u>ILS</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
45.5	45.5	125 + 81.00 - 126 + 16.00	MAINLINE
45.5	45.5	128 + 31.00 - 128 + 66.00	MAINLINE
91.0	91.0	TOTAL	
	91	GRAND TOTAL	

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

<u>SQ FT</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
24.0	24	125 + 50.00 - 129 + 00	CENTER LINE
24.0	24	TOTAL	
	24	GRAND TOTAL	

70300220 TEMPORARY PAVEMENT MARKING LINE, 4"

<u>FOOT</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
72	72	125 + 50.00 - 129 + 00	CENTER LINE
72	72	TOTAL	
	72	GRAND TOTAL	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	7
			CONTRACT NO. 64N29	
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 50, 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.

Reinforcement bars designated (E) shall be epoxy coated.
 Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Areas to be cleaned and painted shall consist of all beam ends and end diaphragms. Beam end painting shall extend 5 feet from the ends of the beams longitudinally. Also included shall be the exterior surface and the bottom of the bottom flange of fascia beams for the entire length of the structure. This surface preparation shall be accomplished according to the requirements of Near-White Metal Blast Cleaning SSPC-SP 10. The paint system shall be applied as specified for System 1 OZ/E/U. The color of the final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8.

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

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

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

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".

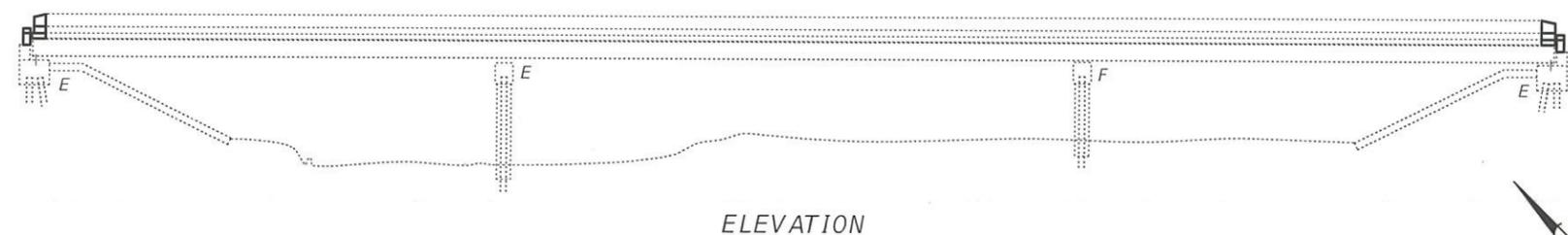
Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 13/16"Ø, unless otherwise noted.

Diaphragm connection holes shall be 15/16"Ø for 3/4"Ø bolts. Two hardened washers shall be required at diaphragm connections.

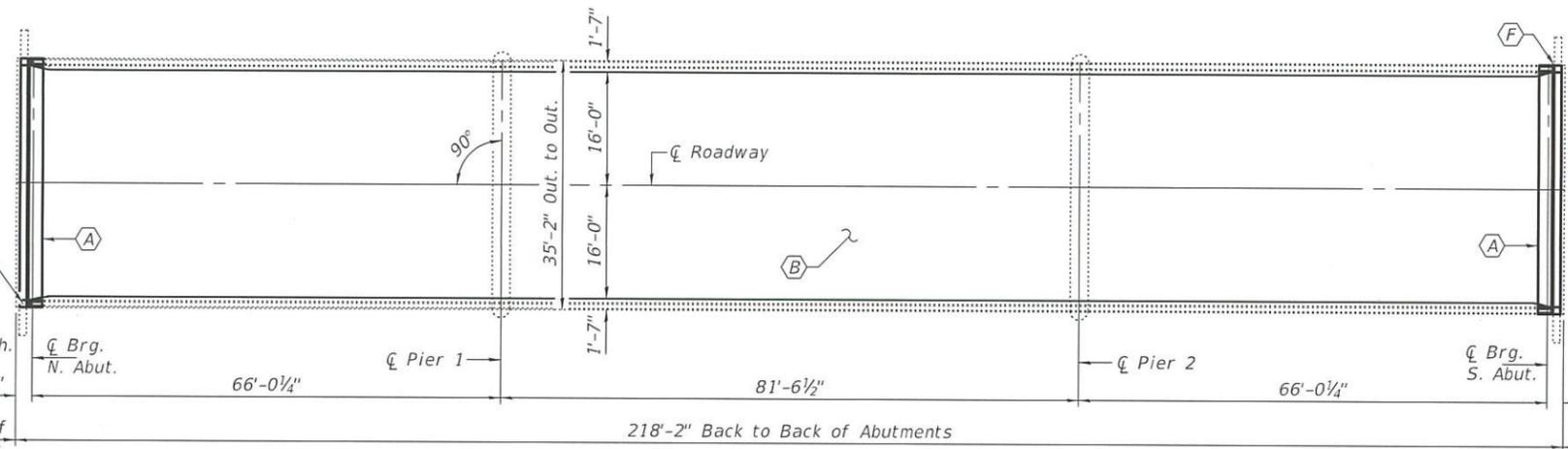
Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."

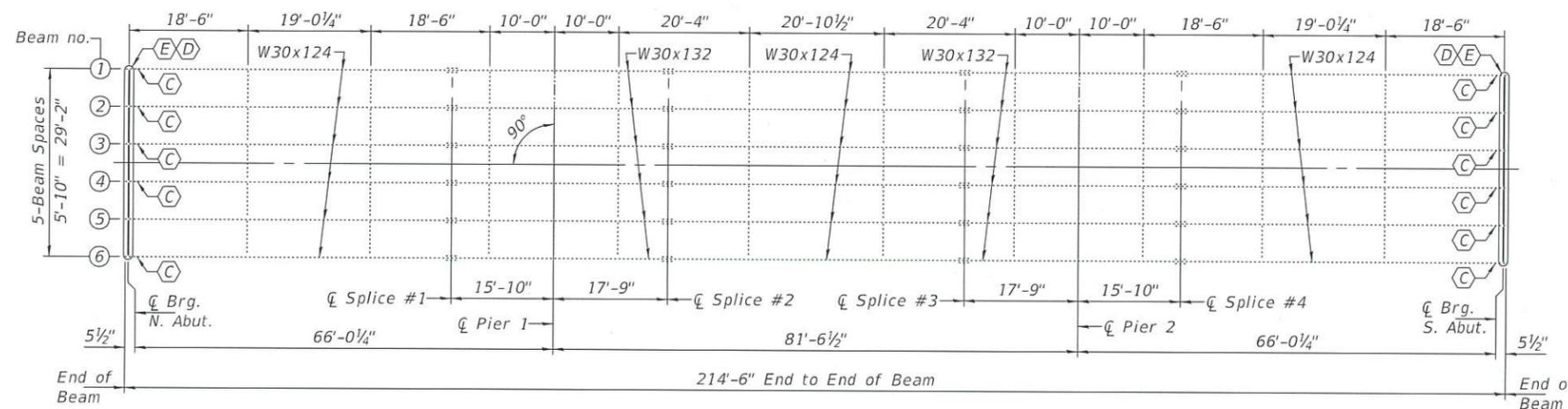
Traffic will be detoured.



ELEVATION



PLAN



FRAMING PLAN

- (A) - Remove & Replace existing Expansion Joint
- (B) - Scarify Bridge Deck 3/4" and install 2 1/4" Latex Modified Concrete Overlay.
- (C) - Beam End Repair
- (D) - Remove & Replace Existing Diaphragms
- (E) - Remove existing brgs. and install new Elastomeric Exp. Brgs., Type I
- (F) - Abutment Cap Repair



BENCHMARK PHOTOGRAPH

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	8.4
Concrete Superstructure	Cu. Yd.	9.3
Reinforcement Bars, Epoxy Coated	Pound	1220
Bridge Deck Scarification, 3/4"	Sq. Yd.	750
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	750
Preformed Joint Strip Seal	Foot	69
Protective Coat	Sq. Yd.	775
Structural Steel Repair	Pound	4010
Furnishing & Erecting Structural Steel	Pound	3160
Jack and Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 1"Ø	Each	24
Structural Repair of Concrete ≤ 5"	Sq. Ft.	12
Structural Steel Removal	Pound	2600
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	6
Bridge Deck Grooving	Sq. Yd.	717
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L. Sum	1

* Apply to new concrete and concrete overlay surfaces only.



Expires: November 30, 2020

DESIGNED - [Signature]
 CHECKED - [Signature]
 DRAWN - STEFFER
 CHECKED - [Signature]

EXAMINED - [Signature]
 PASSED - [Signature]
 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019

REVISED -
 REVISED -

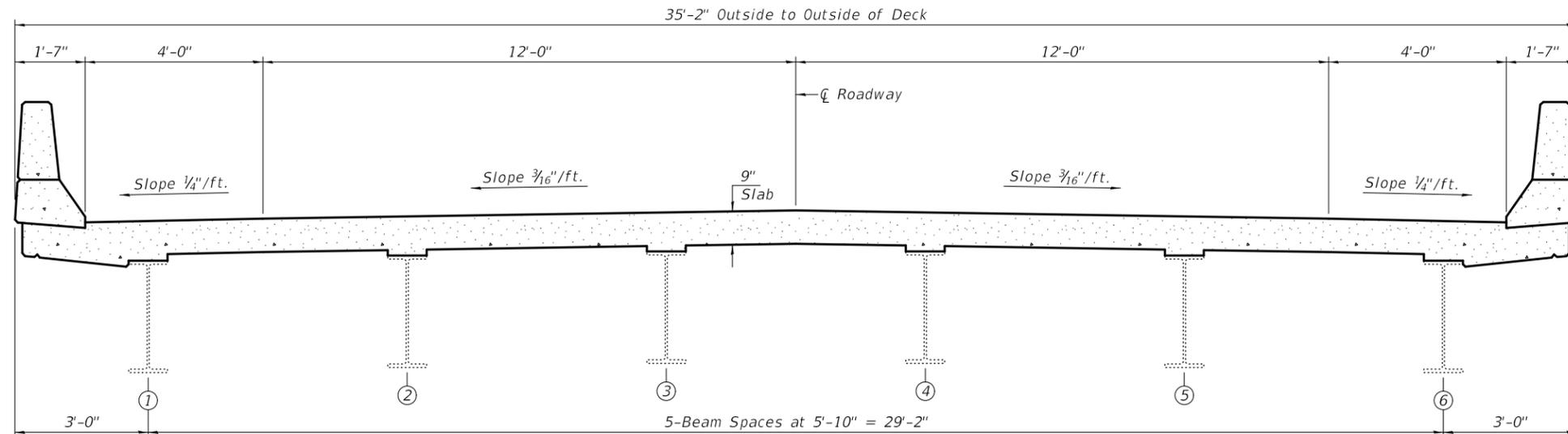
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN, FRAMING PLAN AND ELEVATION
 ILLINOIS ROUTE 82 OVER SOUTH BRANCH EDWARDS RIVER
 SN 037-0138

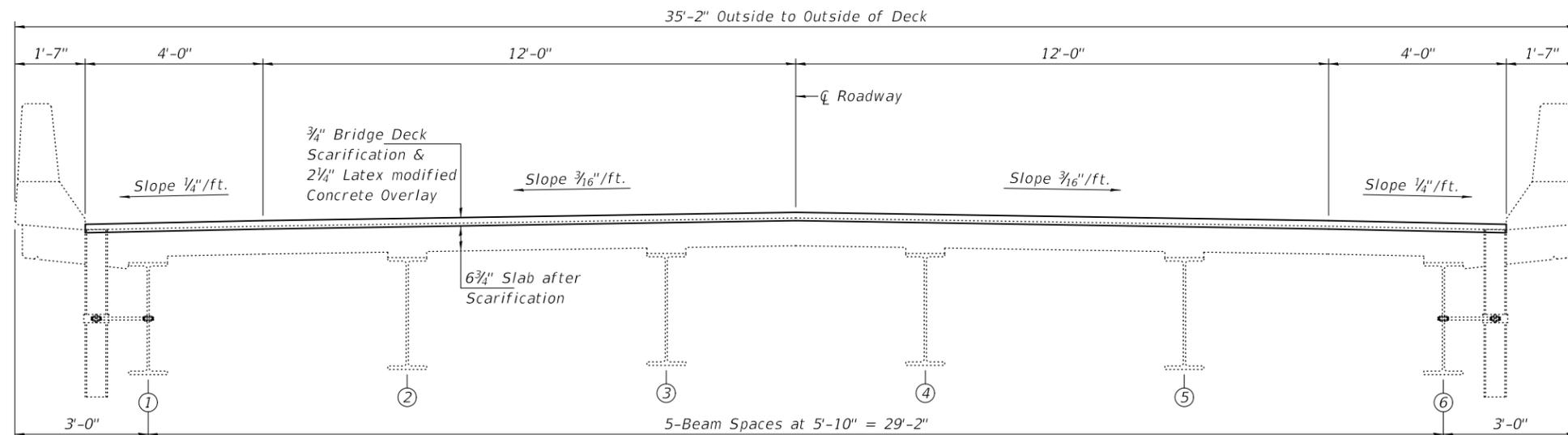
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	9

SHEET NO. 1 OF 9 SHEETS

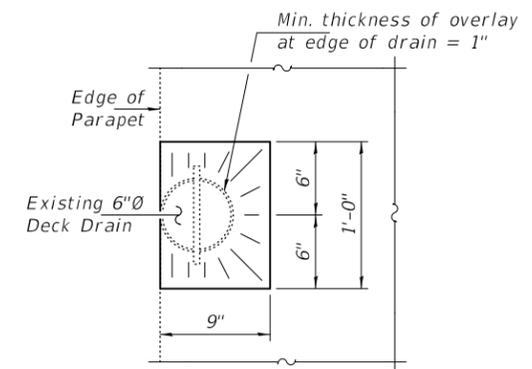
ILLINOIS FED. AID PROJECT
 CONTRACT NO. 64N29



CROSS SECTION AT ABUTMENTS
(Looking South)



CROSS SECTION AT MID-SPAN
(Looking South)



OVERLAY TREATMENT AT DRAINS

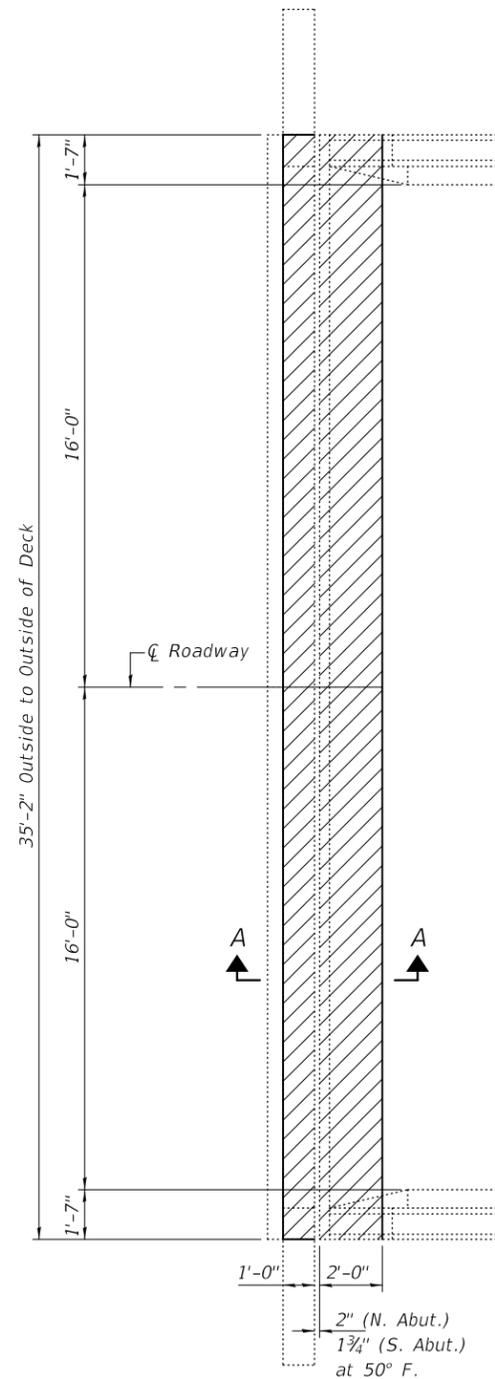
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CHECKED - JSB	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JOV / JSB		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SN 037-0138

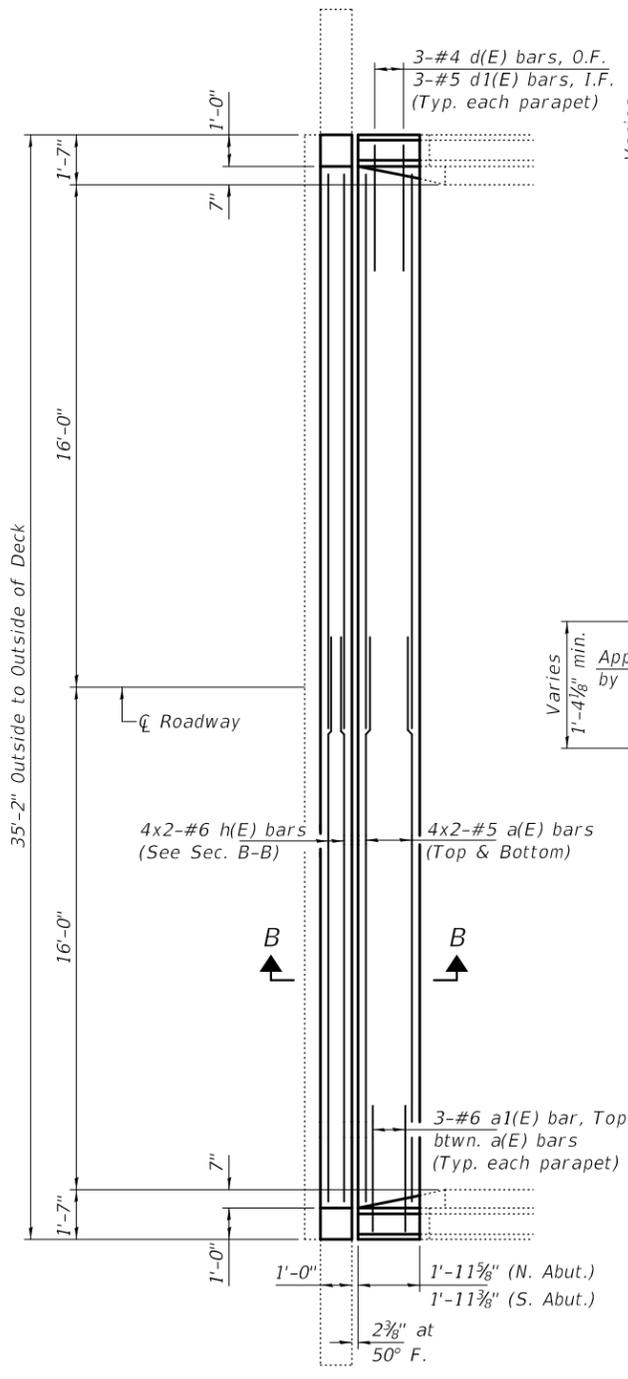
SHEET NO. 2 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	10
CONTRACT NO. 64N29				
ILLINOIS FED. AID PROJECT				



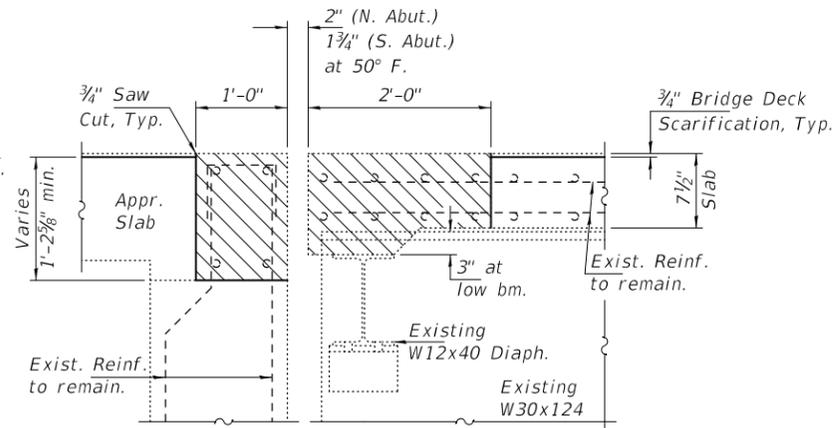
CONCRETE REMOVAL PLAN

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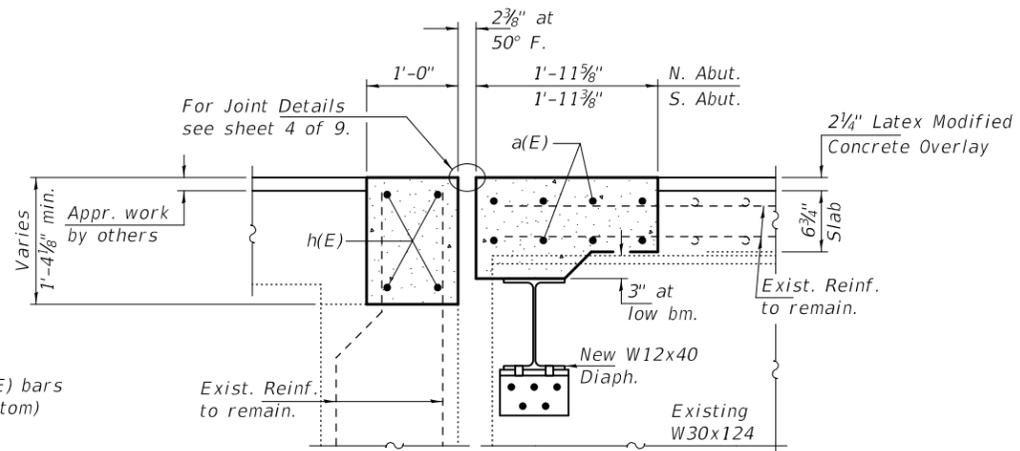


CONCRETE REPLACEMENT PLAN

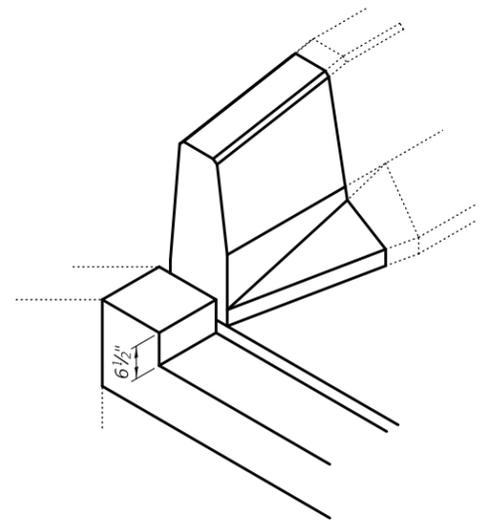
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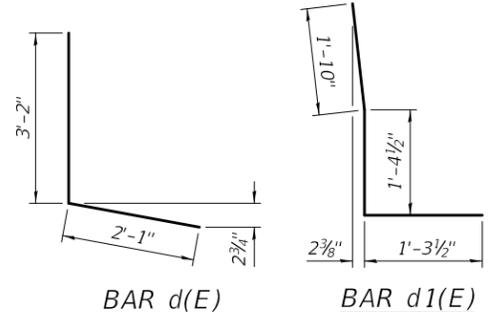
SECTION A-A



SECTION B-B

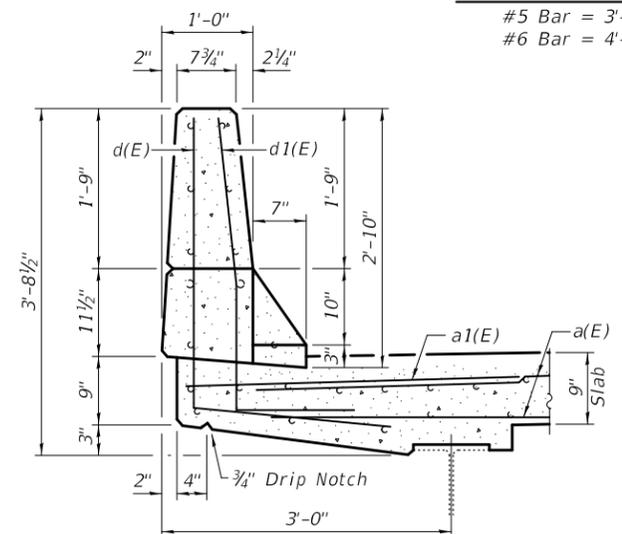


ISOMETRIC VIEW AT END OF PARAPET



MINIMUM BAR LAP

#5 Bar = 3'-6"
#6 Bar = 4'-0"



SECTION THRU BRIDGE PARAPET

BILL OF MATERIAL BOTH ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	32	#5	18'-4"	—
a1(E)	12	#6	4'-0"	—
d(E)	12	#4	5'-3"	L
d1(E)	12	#5	4'-6"	L
h(E)	16	#6	18'-5"	—
Concrete Removal			Cu. Yd.	8.4
Concrete Superstructure			Cu. Yd.	9.3
Reinforcement Bars, Epoxy Coated			Pound	1220

Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

DESIGNED - JOV	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 29, 2019
CHECKED - JSB	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JOV / JSB		

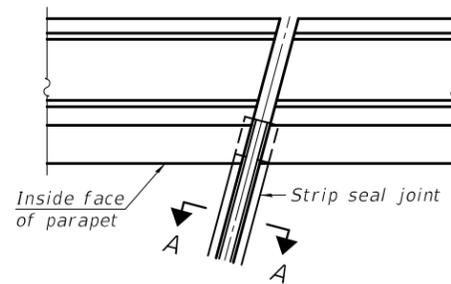
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT DETAILS
SN 037-0138**

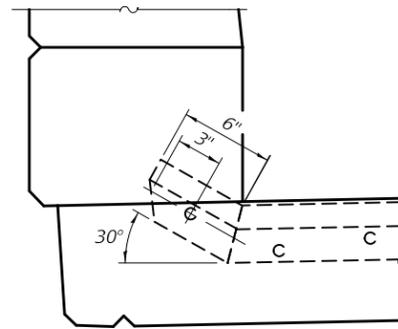
SHEET NO. 3 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	11
CONTRACT NO. 64N29				

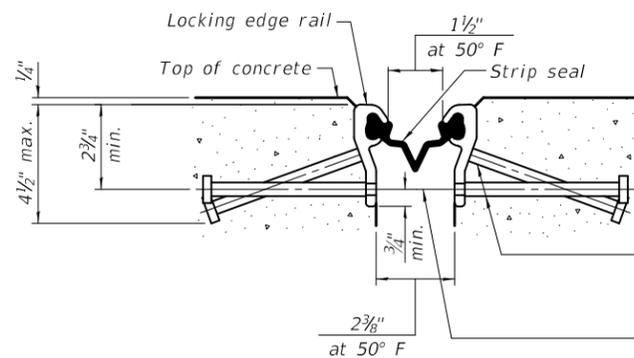
ILLINOIS FED. AID PROJECT



FOR SKEWS $\leq 30^\circ$
PLAN AT PARAPET



ELEVATION AT PARAPET
 (Skews $\leq 30^\circ$)



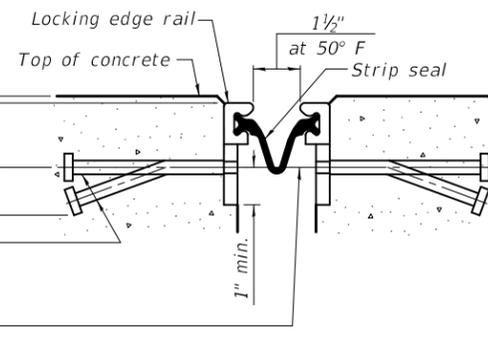
SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " \emptyset x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

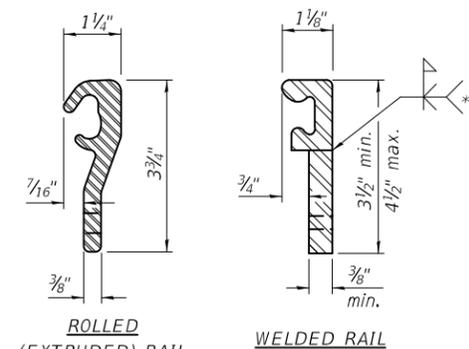
$\frac{3}{8}$ " \emptyset threaded rods in $\frac{7}{16}$ " \emptyset holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

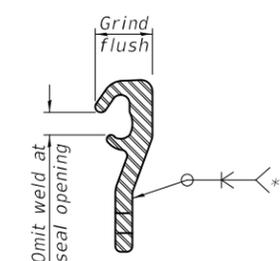


SHOWING WELDED RAIL JOINT



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	69

EJ-SS1 LT30/REPS

6-22-18

DESIGNED - JOV	EXAMINED
CHECKED - JSB	PASSED
DRAWN - STEFFEN	
CHECKED - JOV / JSB	

Timothy A. Daulton
 ENGINEER OF STRUCTURAL SERVICES
 Carl R. Meyer
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019
REVISED -
REVISED -

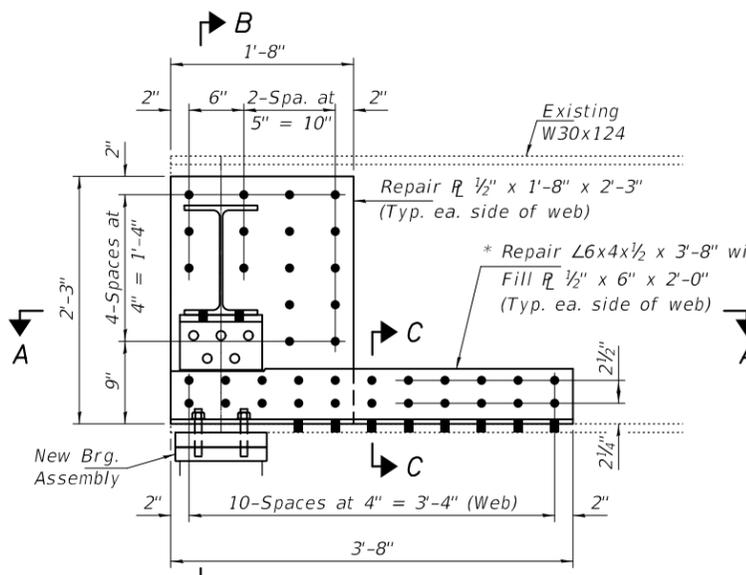
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
 SN 037-0138

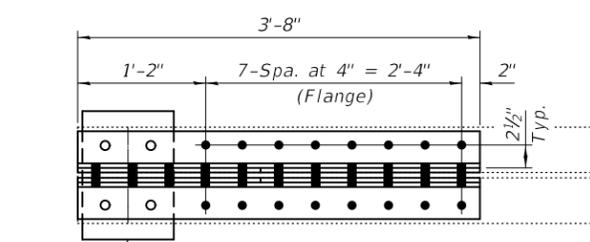
SHEET NO. 4 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	12
ILLINOIS			FED. AID PROJECT	

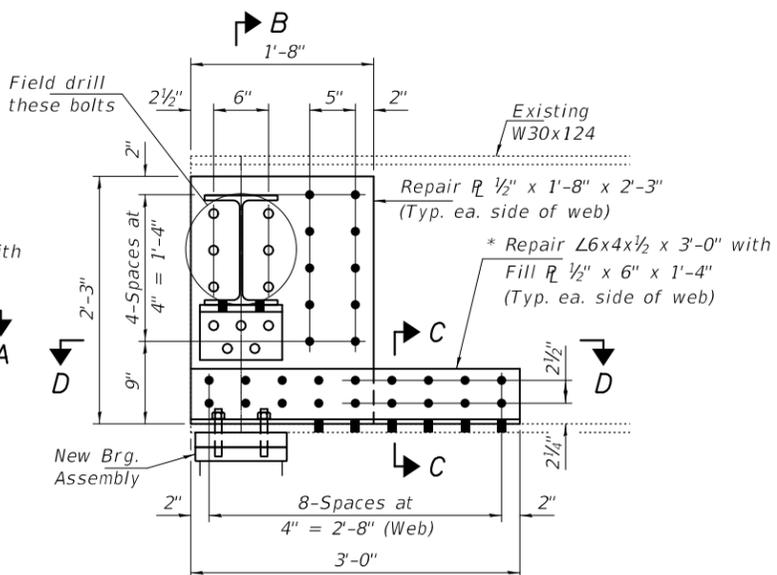
CONTRACT NO. 64N29



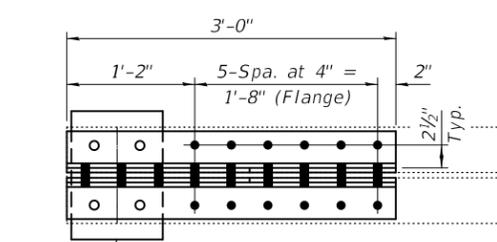
**BEAM END REPAIR "C" AT
N. ABUT., BEAMS 2, 3, 4 & 6**



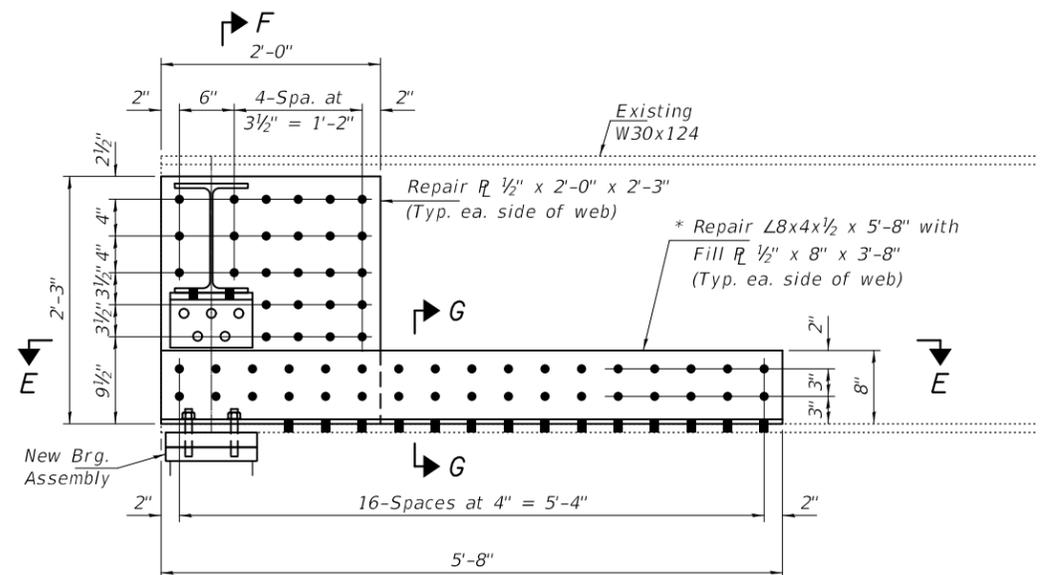
SECTION A-A
Clip L's not shown for clarity.



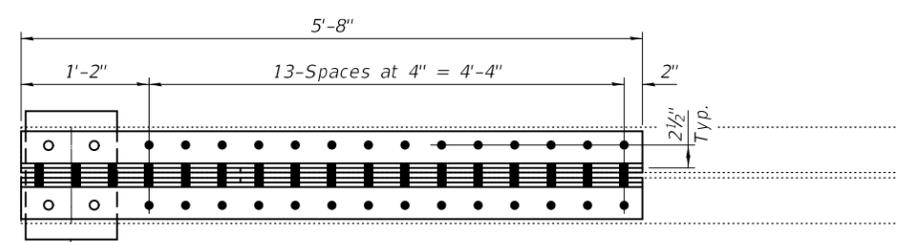
**BEAM END REPAIR "C" AT
N. ABUT., BEAMS 2 & 4 &
S. ABUT., BEAM 5**



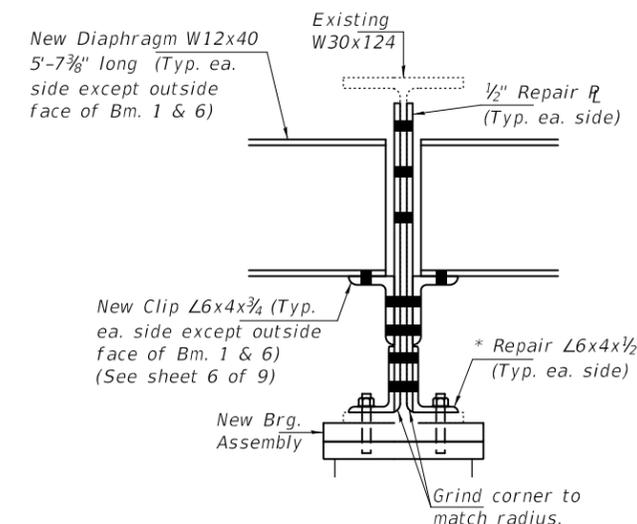
SECTION D-D
Clip L's not shown for clarity.



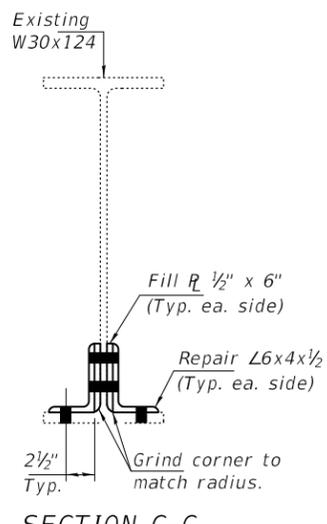
BEAM END REPAIR "C" AT N. ABUT., BEAM 1



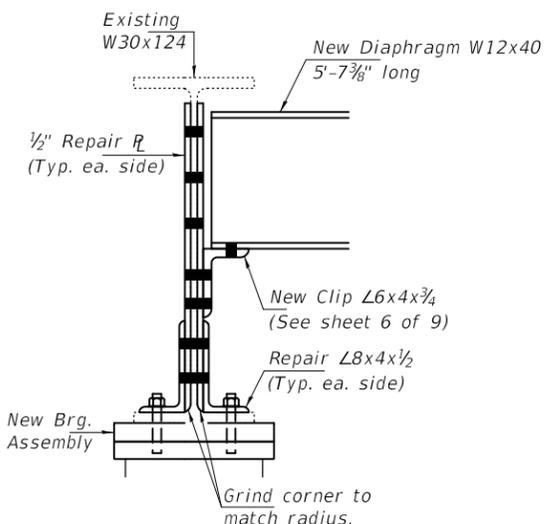
SECTION E-E
Clip L's not shown for clarity.



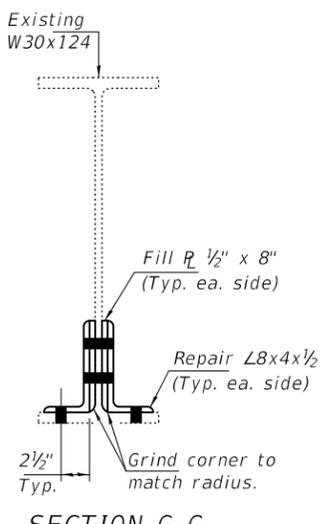
SECTION B-B



SECTION C-C



SECTION F-F



SECTION G-G

* Trim Repair L as required to clear new Bottom Clip L.

Notes:
Existing clip angle to be removed using the air-arc method and grind smooth all weld material remaining on the web. Cost included with Structural Steel Removal.
For Structural Steel Repair quantities, see sheet 6 of 9.

BOLT HOLE LEGEND

- - Field drill using existing steel as template, except as noted.
- - Use holes in new steel as template.

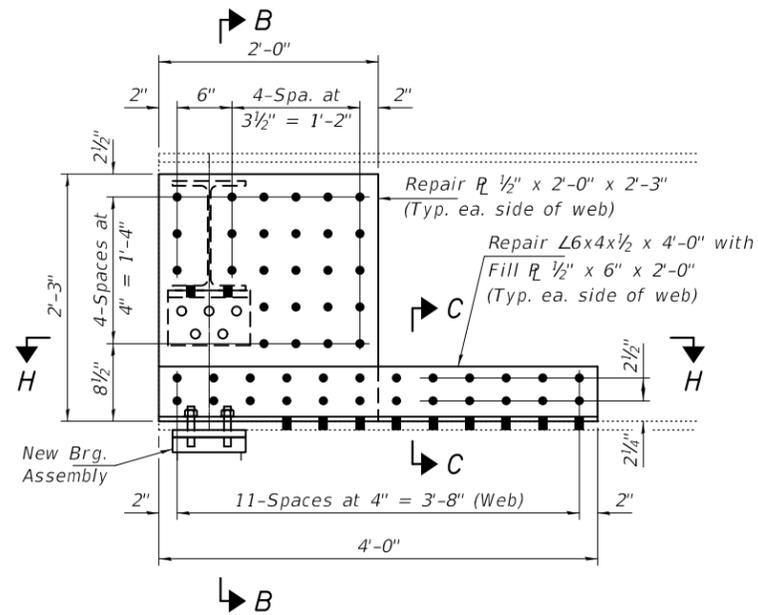
DESIGNED - JOV	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 29, 2019
CHECKED - JSB	PASSED - <i>Carl R. Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JOV / JSB		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

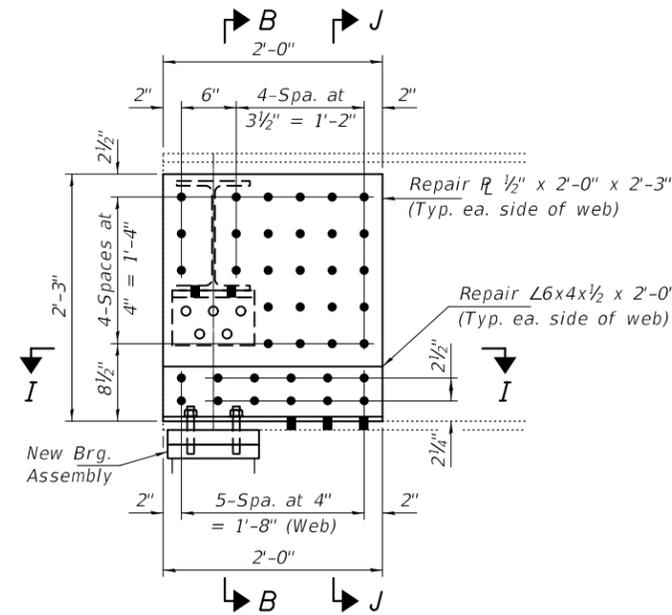
**BEAM END REPAIRS
SN 037-0138**

SHEET NO. 5 OF 9 SHEETS

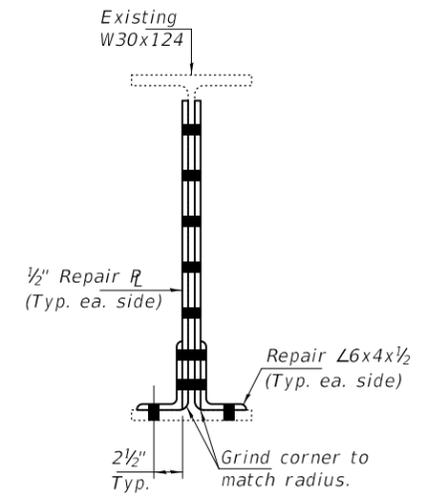
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	13
CONTRACT NO. 64N29				
ILLINOIS FED. AID PROJECT				



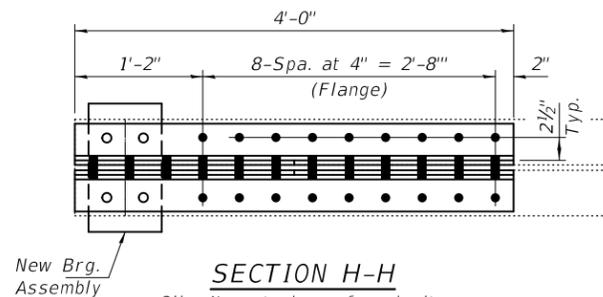
BEAM END REPAIR "C" AT S. ABUT., BEAM 1



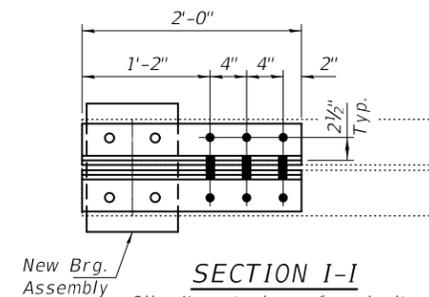
BEAM END REPAIR "C" AT N. ABUT., BEAM 6



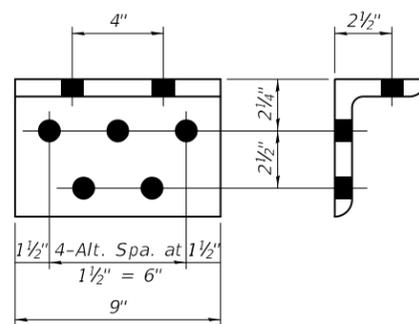
SECTION J-J



SECTION H-H
Clip L's not shown for clarity.



SECTION I-I
Clip L's not shown for clarity.



NEW BOTTOM CLIP L DETAILS
L 6x4x3/4 x 9" (18-Required)

BOLT HOLE LEGEND

- - Field drill using existing steel as template.
- - Use holes in new steel as template.

Notes:
 For Sections B-B & C-C see sheet 5 of 9.
 New end diaphragms, bottom clip angles, and connection bolts shall be paid for as Furnishing and Erecting Structural Steel.
 New repair plates, repair angles, fill plates, and repair bolts shall be paid for as Structural Steel Repair.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	4010
Structural Steel Removal	Pound	2600
Furnishing & Erecting Structural Steel	Pound	2630

DESIGNED - JOV
 CHECKED - JSB
 DRAWN - STEFFEN
 CHECKED - JOV / JSB

EXAMINED
 PASSED
 Timothy A. [Signature]
 ENGINEER OF STRUCTURAL SERVICES
 [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

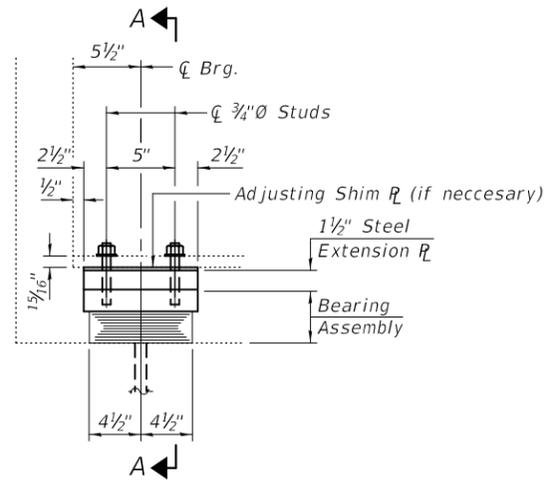
DATE - JANUARY 29, 2019
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEAM END REPAIRS & DIAPHRAGM REPLACEMENT DETAILS
 SN 037-0138

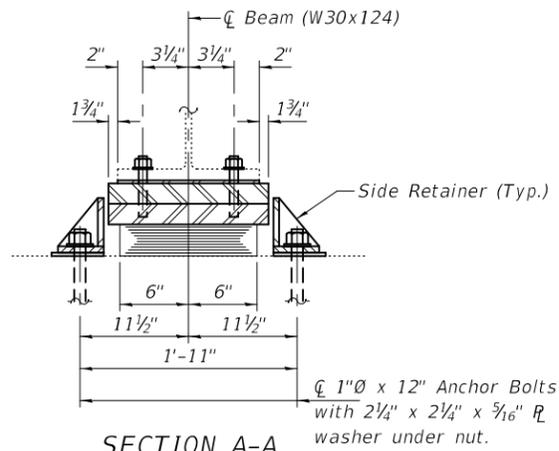
SHEET NO. 6 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	14
CONTRACT NO. 64N29				
ILLINOIS FED. AID PROJECT				



ELEVATION AT NORTH ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A

BEAM REACTIONS

R _ℓ	(K)	22.0
R _t	(K)	31.2
Imp.	(K)	8.5
R (Total)	(K)	61.7

Notes:

Diaphragm removal and reinstallation 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.

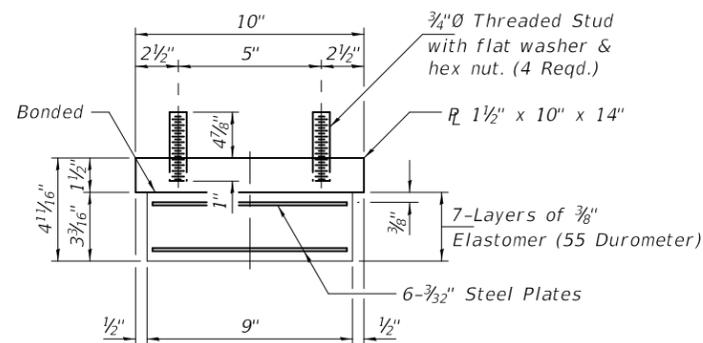
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 32 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 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

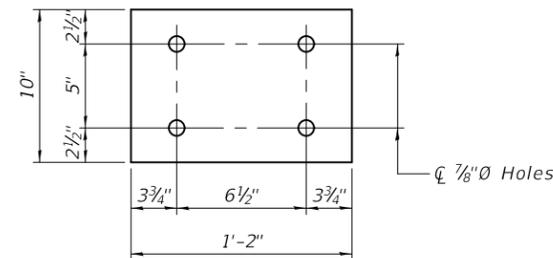
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



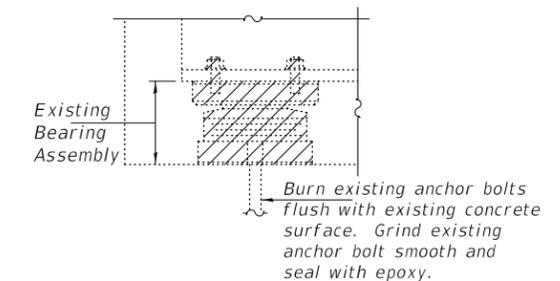
BEARING ASSEMBLY

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



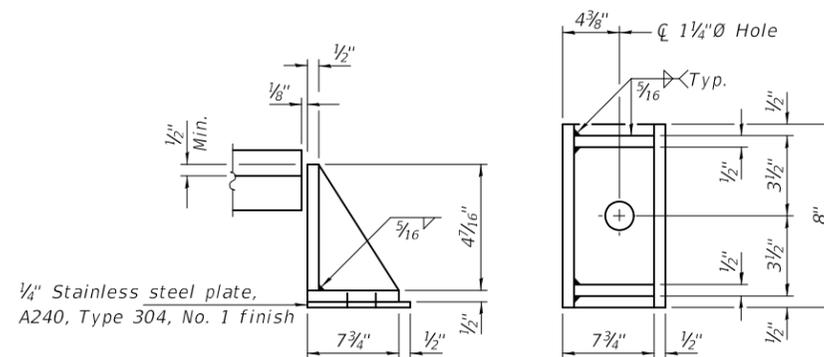
PLAN - STEEL EXTENSION PLATE

ℓ 1 1/2" x 10" x 1'-2" (6-Required)



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	370
Anchor Bolts, 1"Ø	Each	12

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV / JSB

EXAMINED	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Carl R. Berger</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019
REVISED -
REVISED -

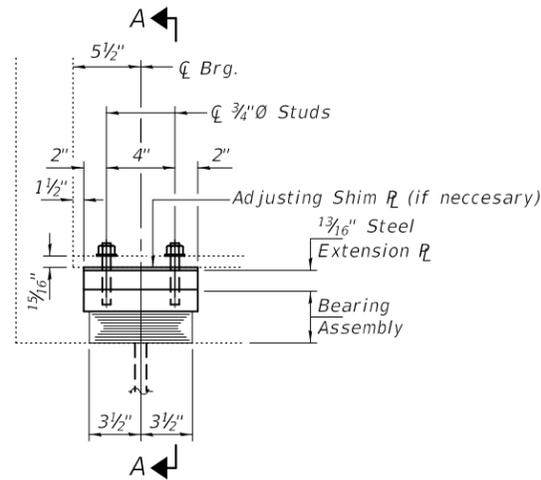
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT BEARING REPLACEMENT DETAILS
SN 037-0138

SHEET NO. 7 OF 9 SHEETS

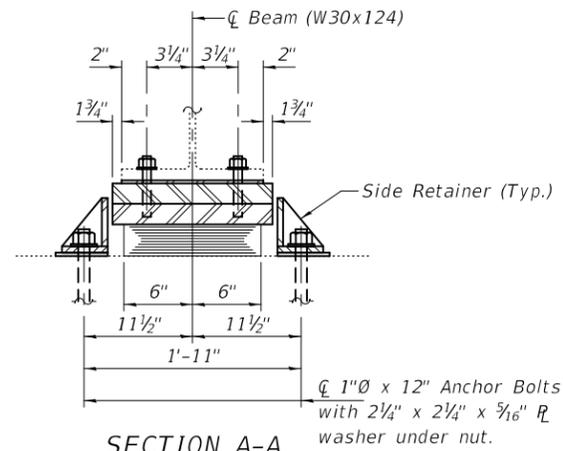
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	15
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 64N29



ELEVATION AT SOUTH ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A

BEAM REACTIONS

R _l	(K)	22.0
R _t	(K)	31.2
Imp.	(K)	8.5
R (Total)	(K)	61.7

Notes:

Diaphragm removal and reinstallation 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.

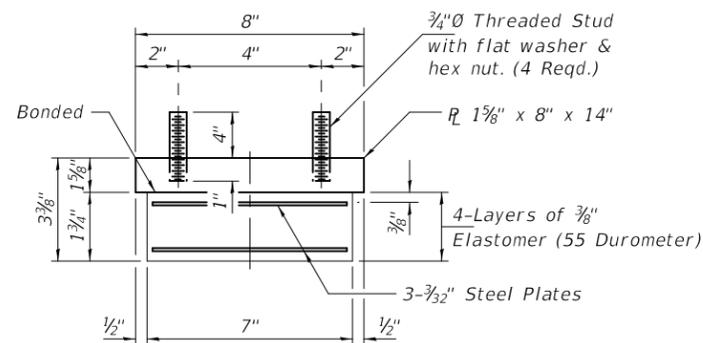
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 32 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 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

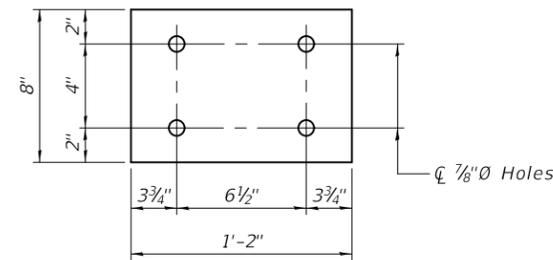
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



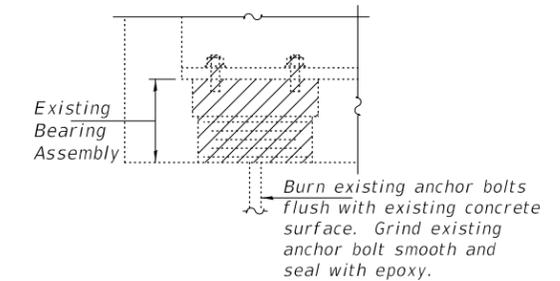
BEARING ASSEMBLY

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



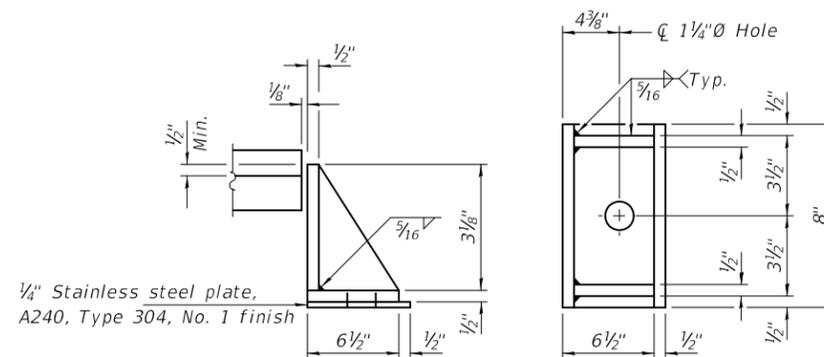
PLAN - STEEL EXTENSION PLATE

1 3/16 inch x 8 inch x 1'-2 inch (6-Required)



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	160
Anchor Bolts, 1"Ø	Each	12

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV / JSB

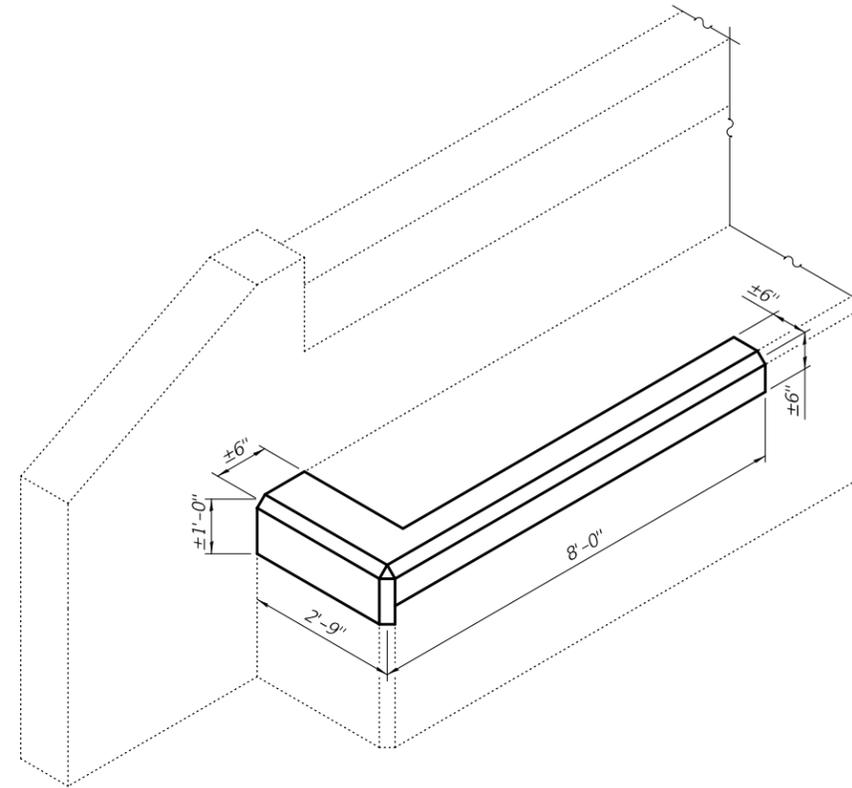
EXAMINED	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Carl R. Roper</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT BEARING REPLACEMENT DETAILS
SN 037-0138
SHEET NO. 8 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BDR 2019-3	HENRY	25	16
CONTRACT NO. 64N29			ILLINOIS FED. AID PROJECT	



ISOMETRIC VIEW OF
SOUTH ABUTMENT CAP REPAIR

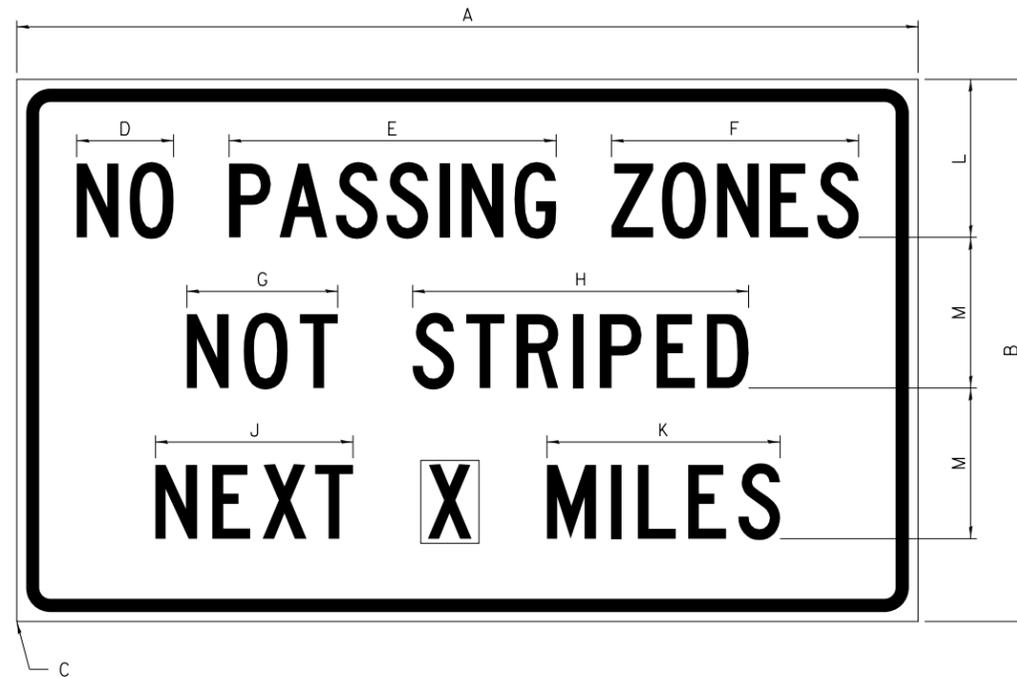
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete $\leq 5"$	Sq. Ft.	12

DESIGNED - JOV	EXAMINED	DATE - JANUARY 29, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT REPAIR DETAILS SN 037-0138	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	PASSED	REVISD -			634	D2 BDR 2019-3	HENRY	25	17
DRAWN - STEFFEN		REVISD -	SHEET NO. 9 OF 9 SHEETS		ILLINOIS FED. AID PROJECT				
CHECKED - JOV / JSB									

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



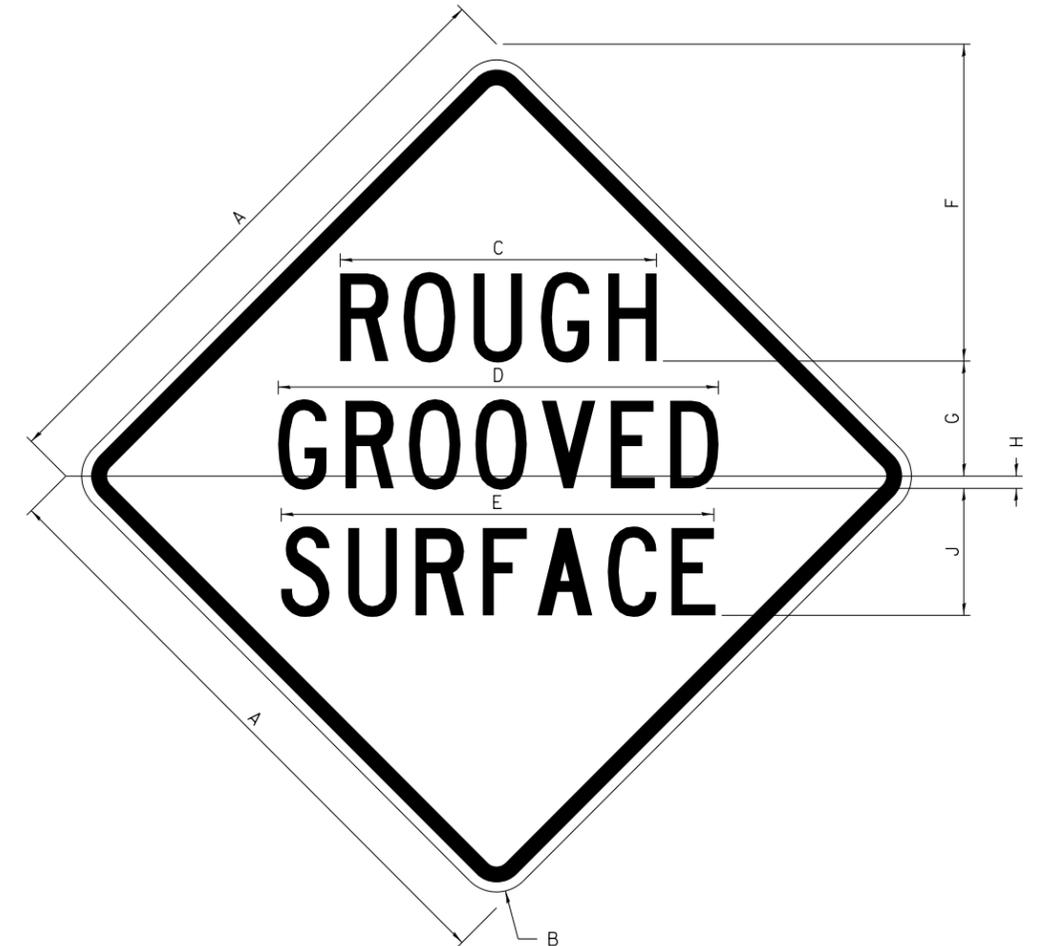
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 3-02-16
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64N29\Drawings\Development\Studies & Plans\Development\Drawings\CAD\Sheets\02.64N29-sht-details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

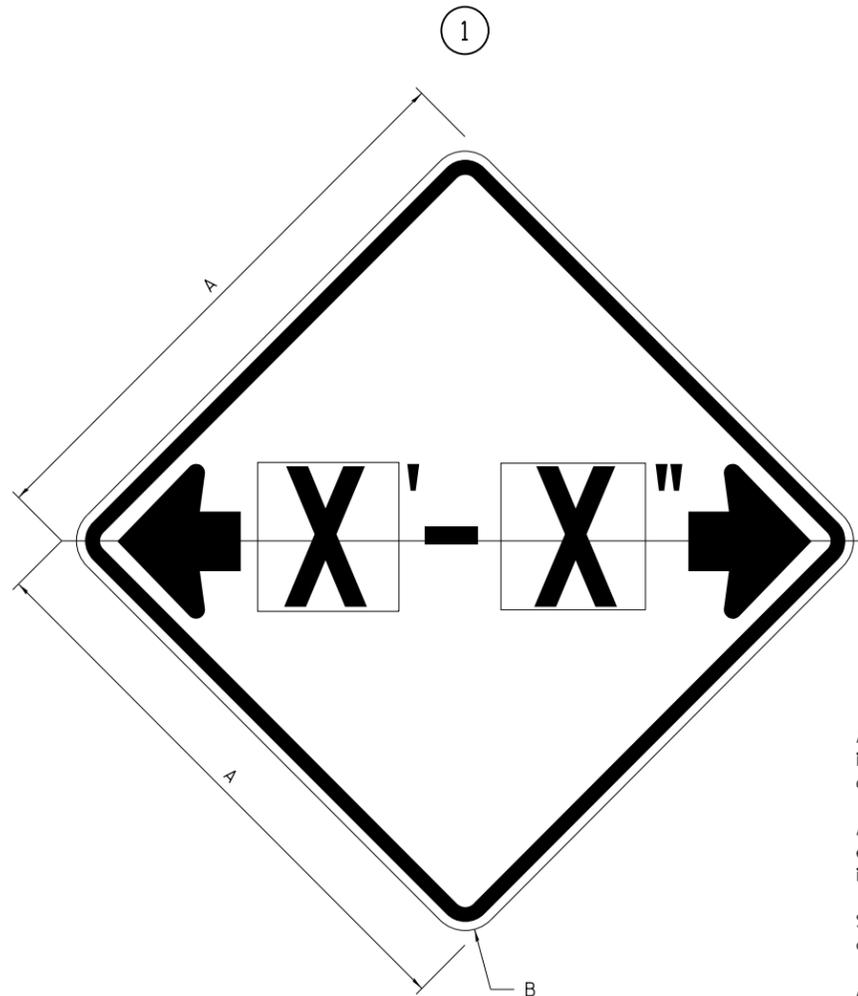
REGION 2 / DISTRICT 2 STANDARD

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

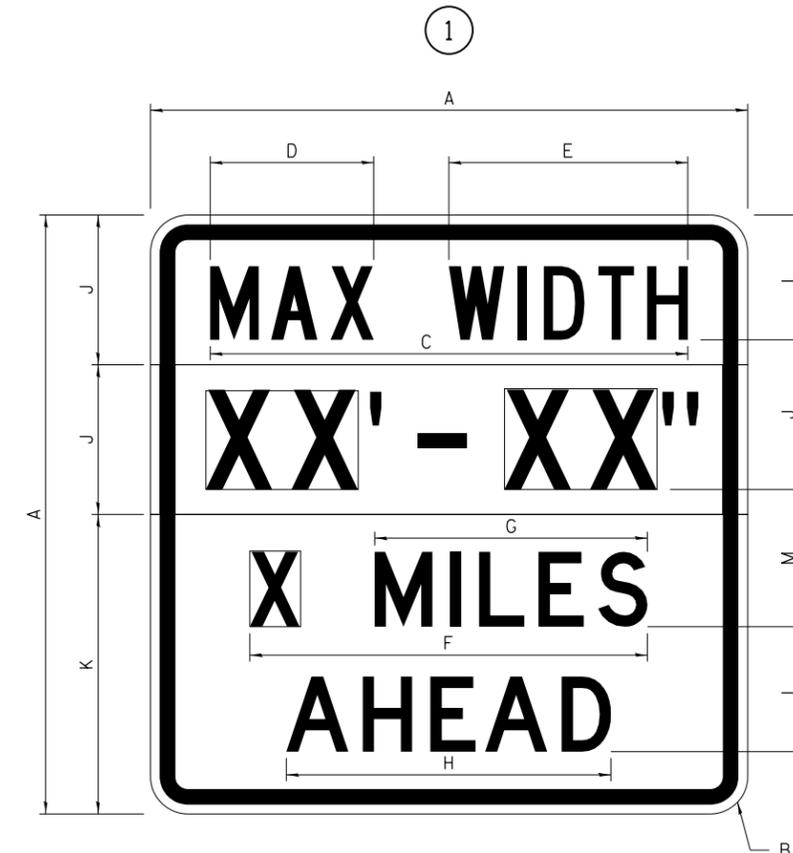
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BJR 2019-1	HENRY	25	18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N29	

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 3-02-16
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64N29\Drawings\Development\Studies & Plans\Development\CAD\Sheets\D2.64N29-sht-details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

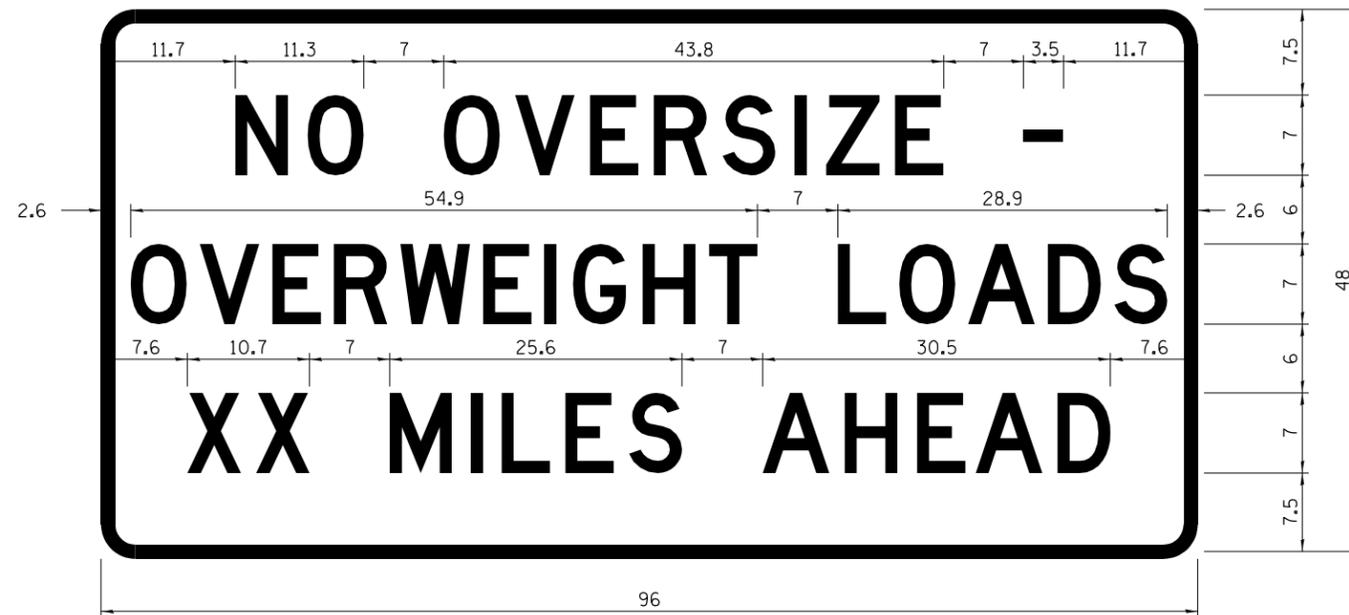
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BUR 2019-1	HENRY	25	19
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 3-02-16
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

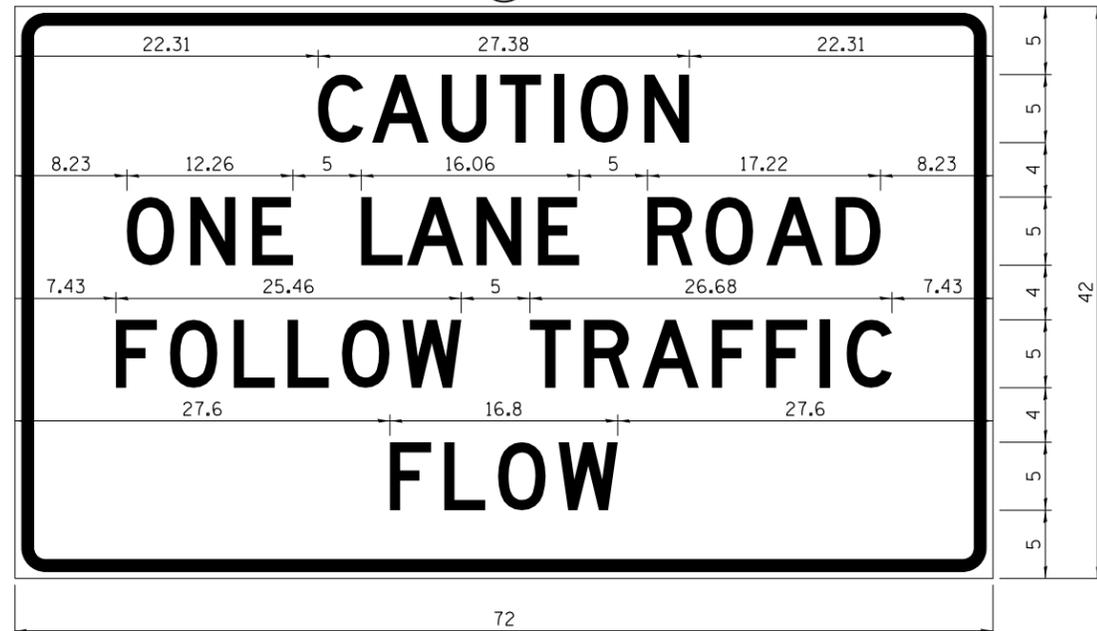
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BJR 2019-1	HENRY	25	20
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
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Sign not to scale

GENERAL NOTES

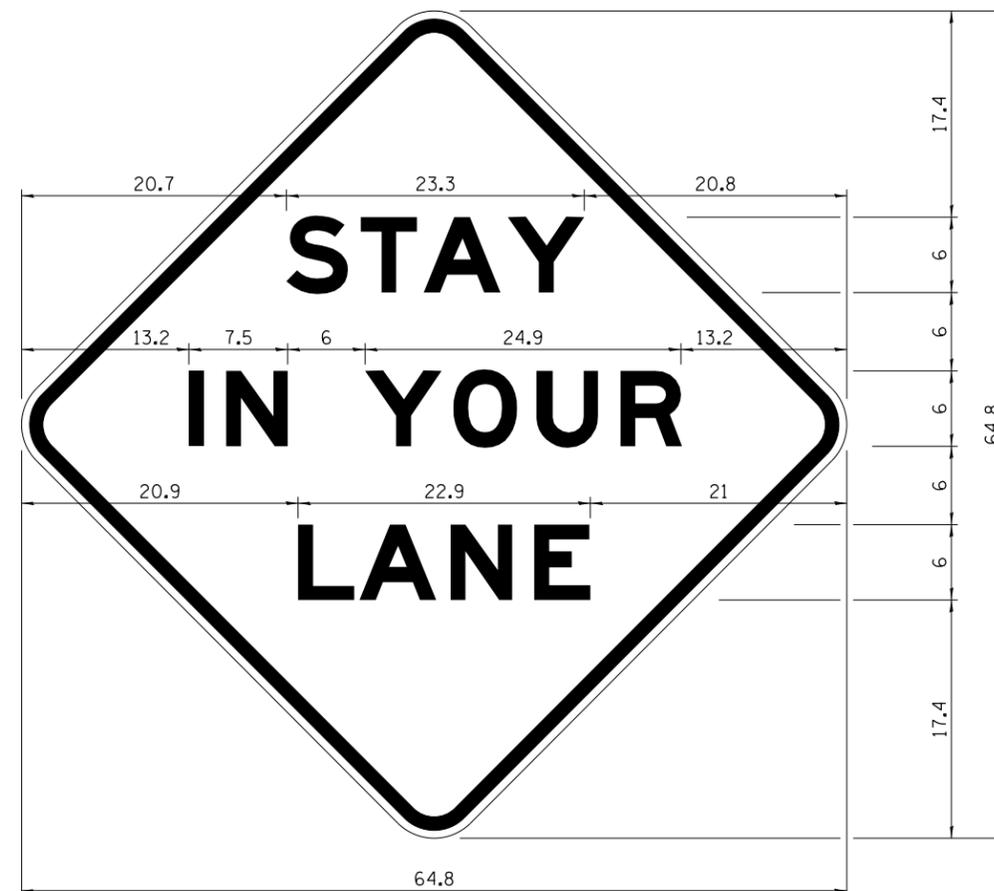
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED - 3-02-16
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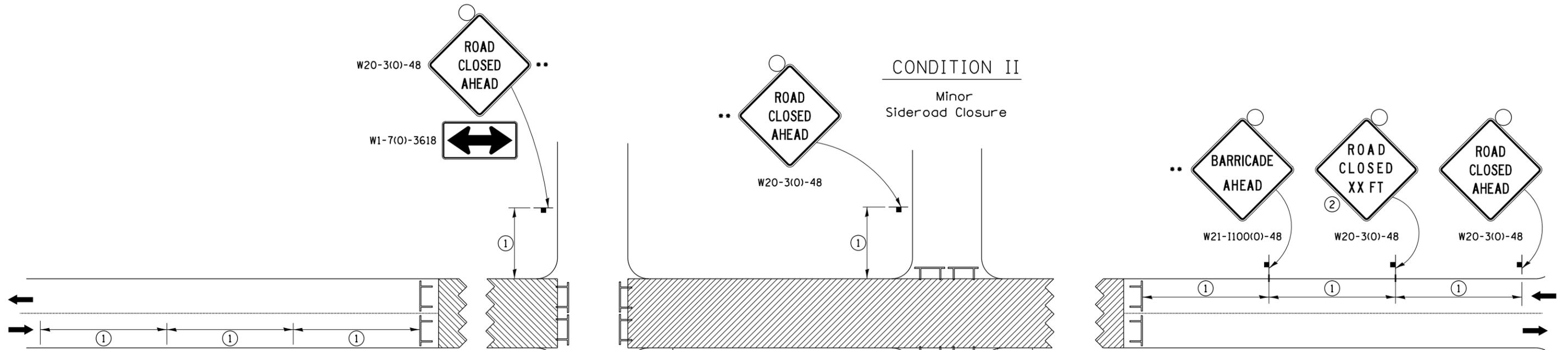
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BUR 2019-1	HENRY	25	21
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE



SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed To Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

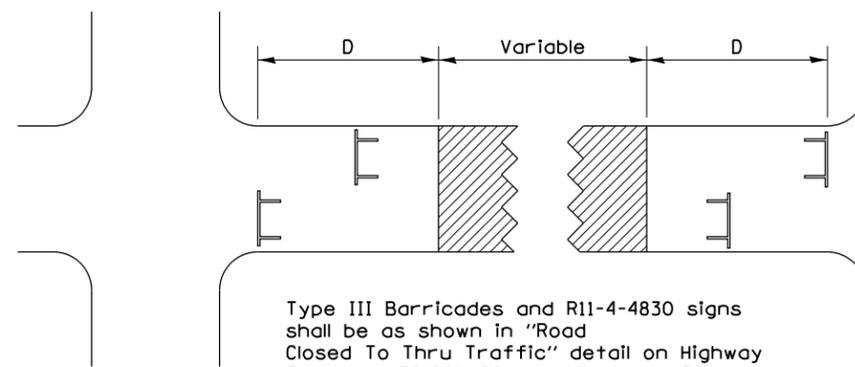
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

TYPICAL APPLICATION FOR ROAD CLOSURE

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		DATE -	REVISED - 10-17-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

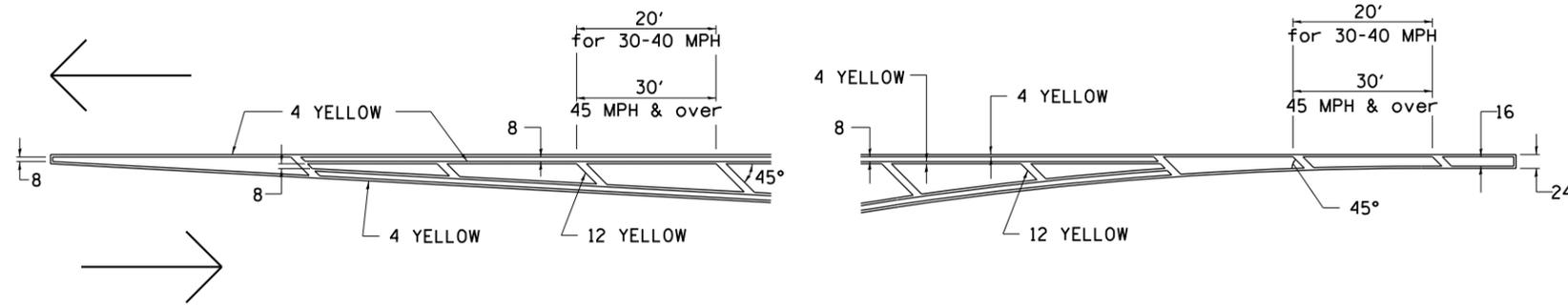
REGION 2 / DISTRICT 2 STANDARD

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

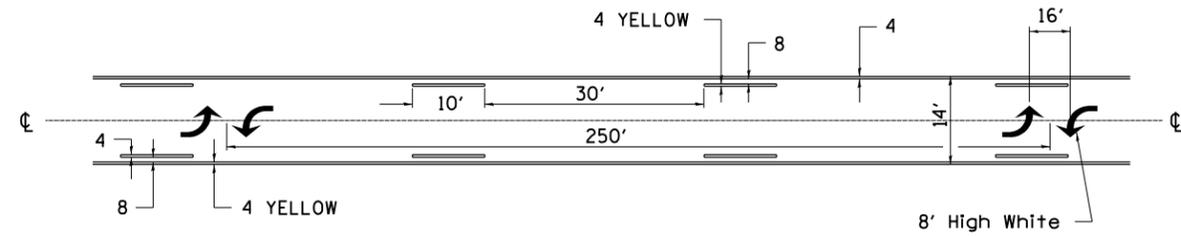
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BUR 2019-1	HENRY	25	22
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

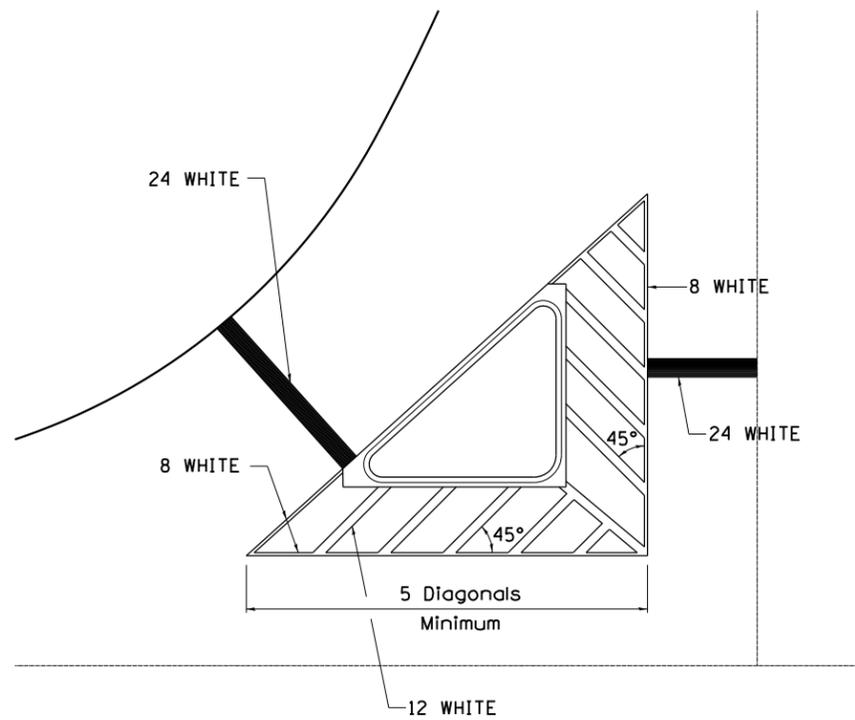


MEDIAN PAVEMENT MARKING



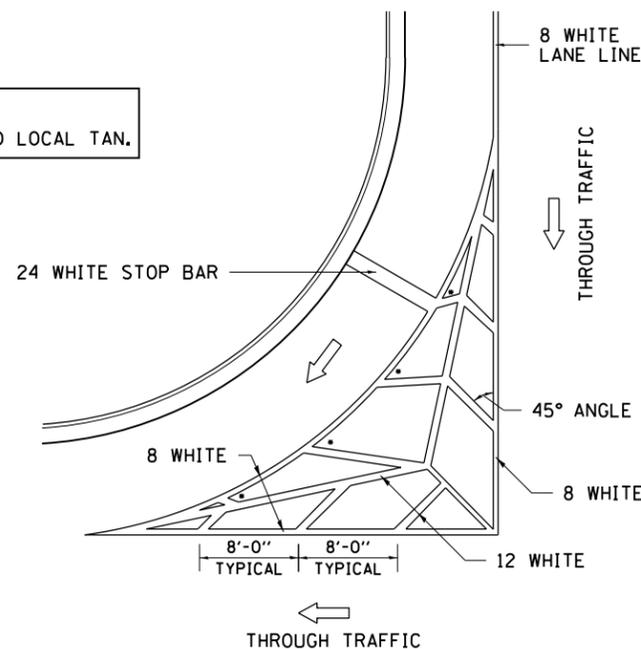
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



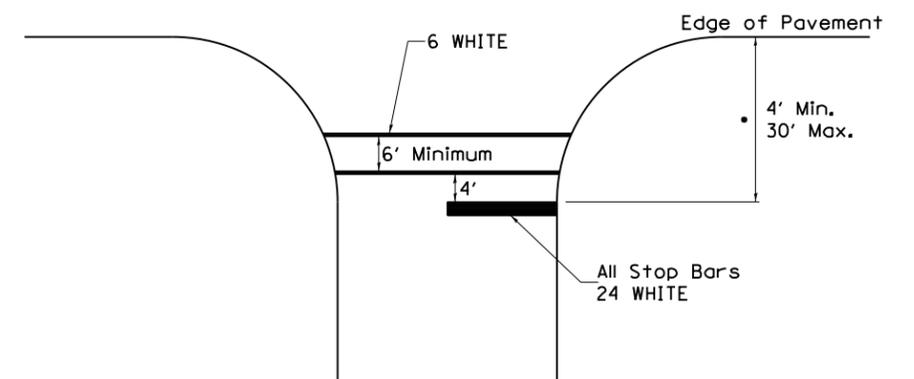
TYPICAL MARKING FOR PAINTED ISLANDS

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 = cushmenbw	DESIGNED -	REVISED - 6-27-14
p:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\64N29\Development\Studies & Plans\Development\CAD sheets\64N29-sht-details.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISIONS -	
PLOT DATE = Dec-21-2018 11:38:02 AM	DATE -	REVISIONS -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

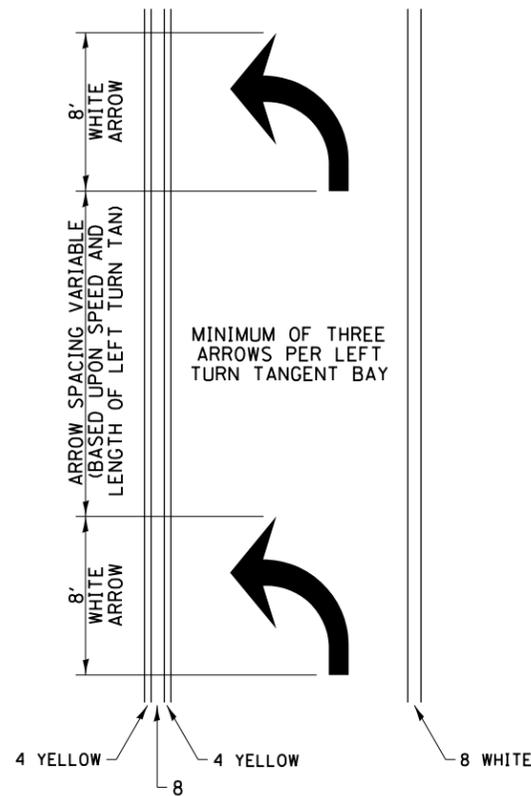
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BUR 2019-1	HENRY	25	23
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

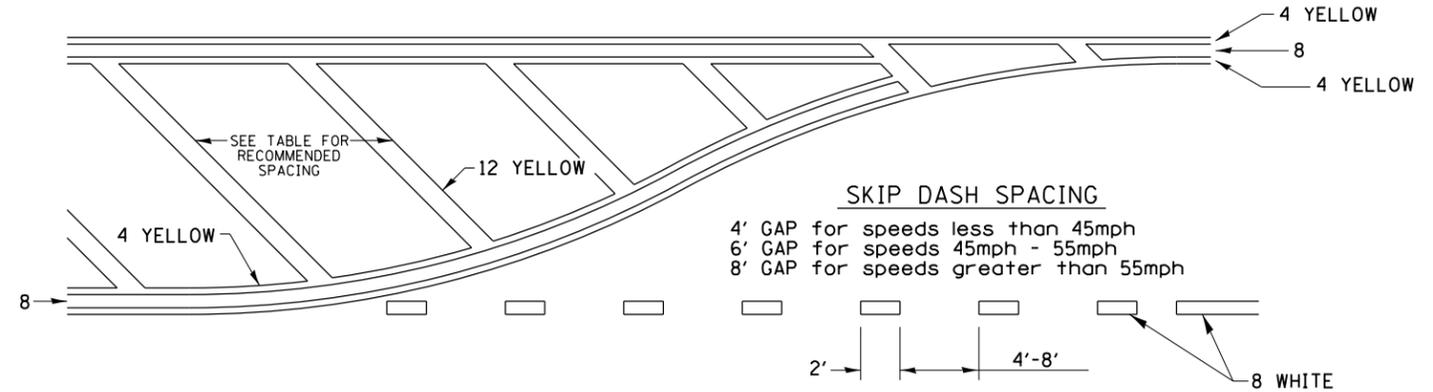


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

6 at 40' O.C. APPROACH SIDE ONLY

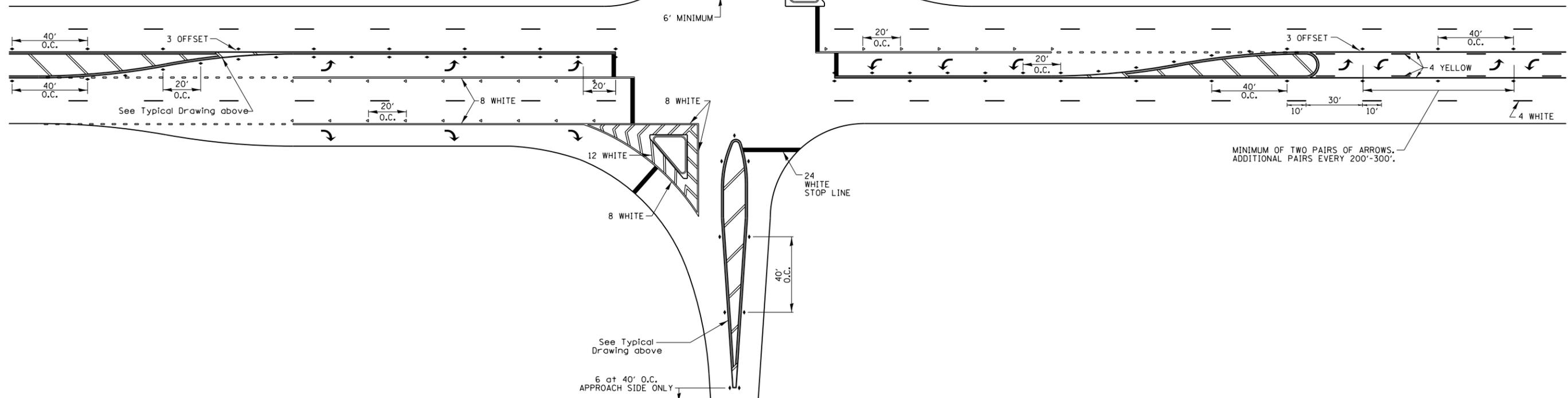
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



MINIMUM OF TWO PAIRS OF ARROWS. ADDITIONAL PAIRS EVERY 200'-300'.

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED - 6-27-14
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PLOT SCALE = 100.0000' / in.	CHECKED -	DATE -	REVISED -
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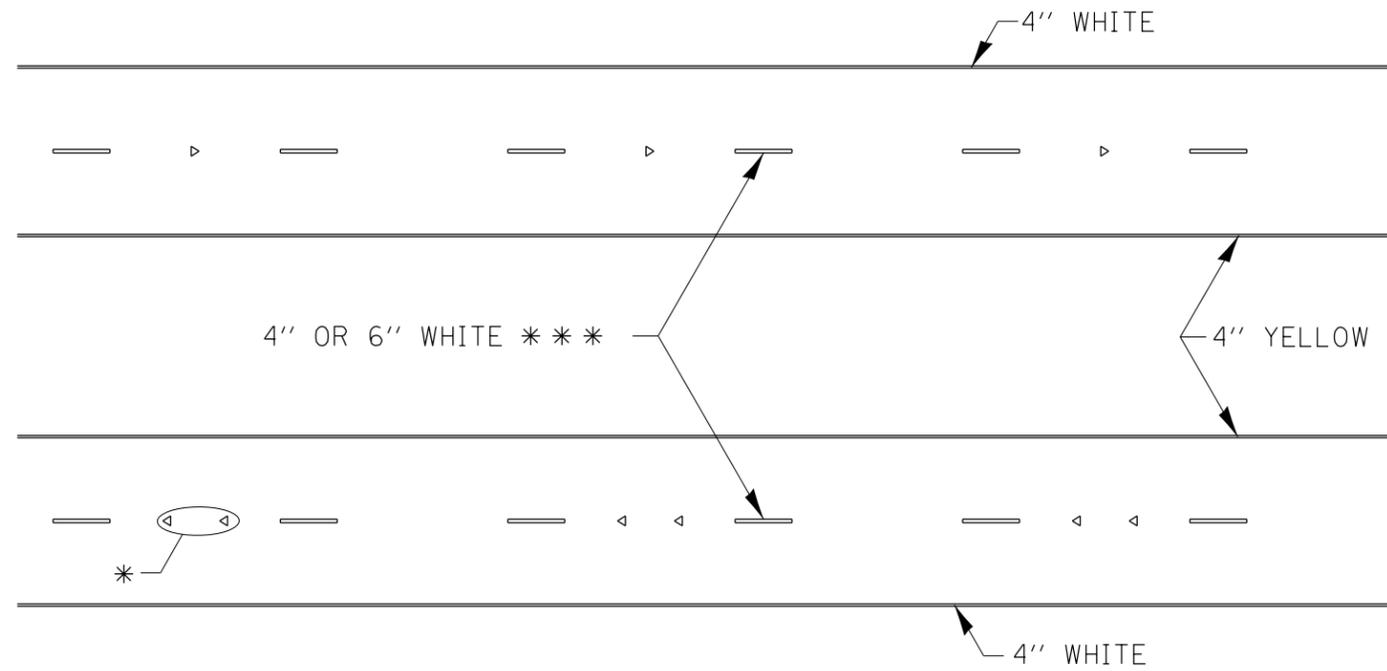
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

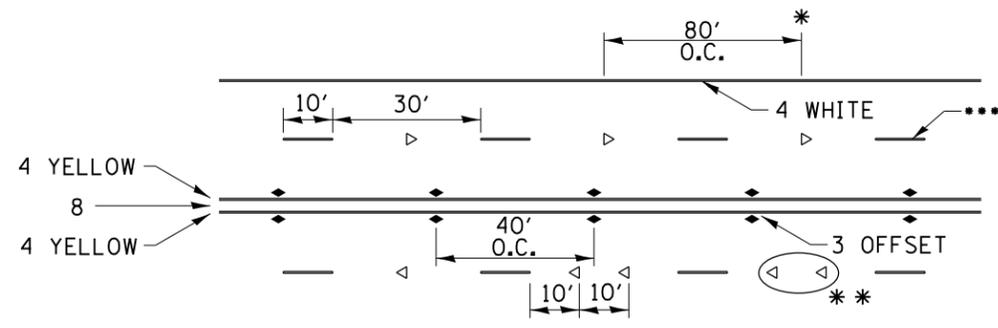
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BUR 2019-1	HENRY	25	24
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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.

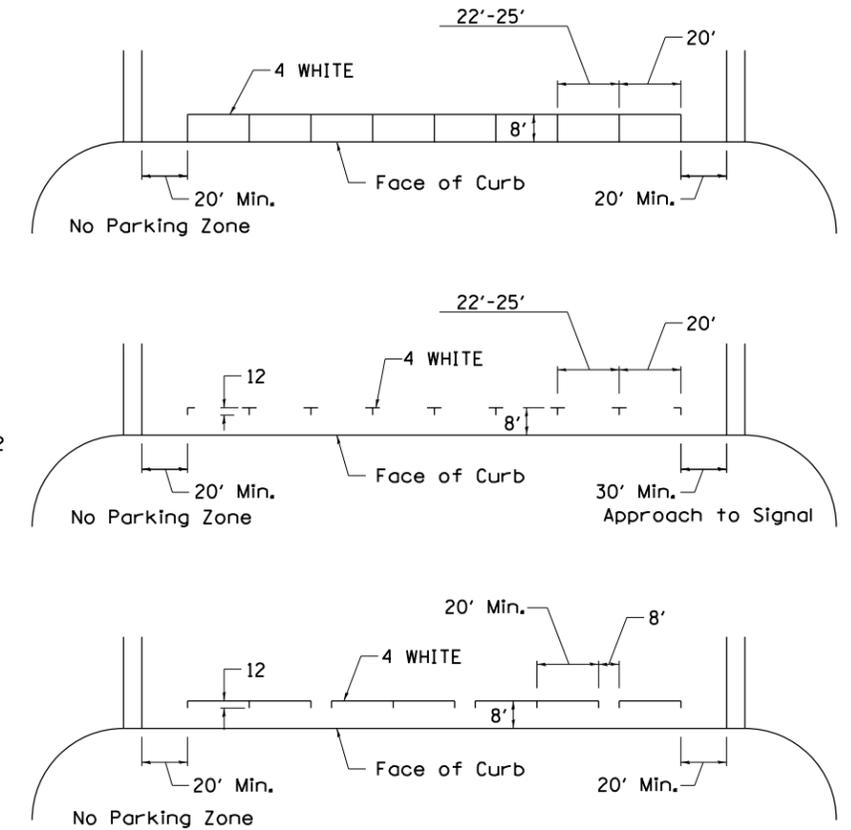
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

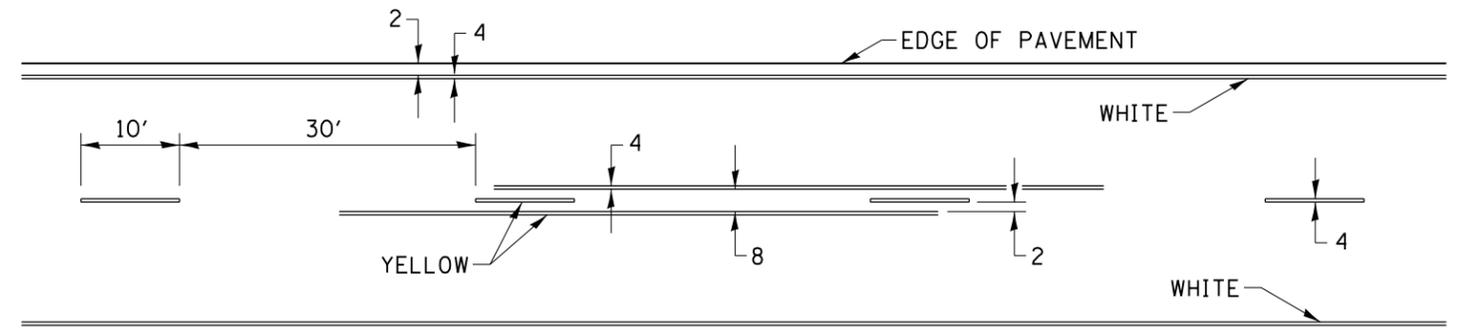
MULTI-LANE / UNDIVIDED & ONE WAY

(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 = cushmenbw	DESIGNED -	REVISED - 6-27-14
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		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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	D2 BUR 2019-1	HENRY	25	25
CONTRACT NO. 64N29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				