

INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 10-28 Technical Advisory

November 22, 2010

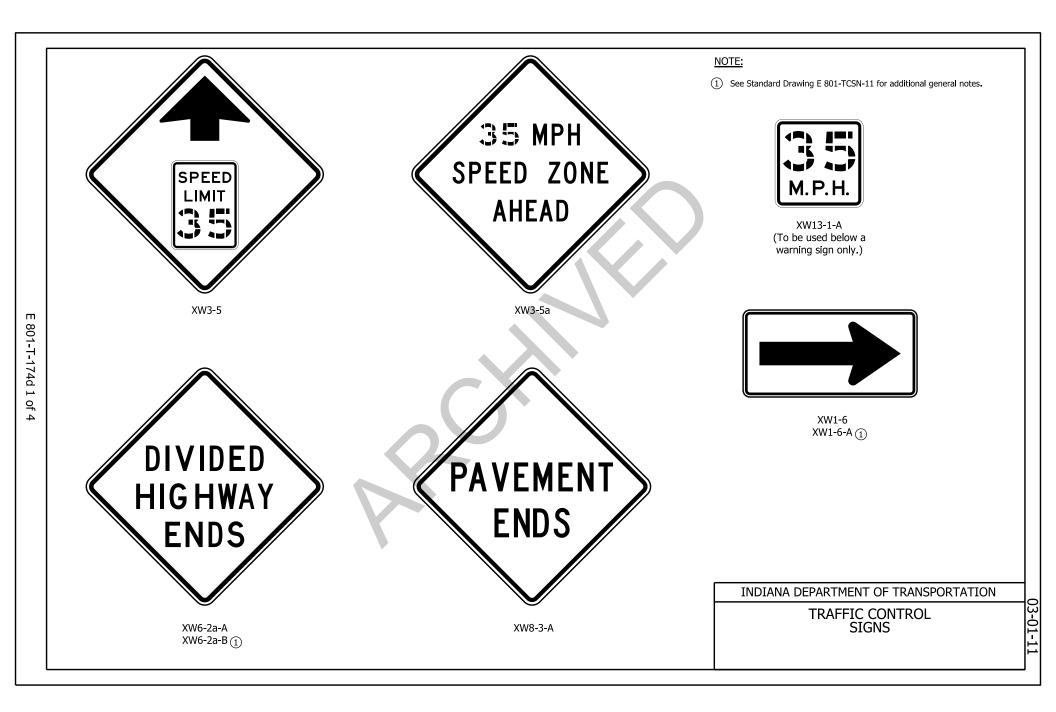
TO:	All Design, Operations, and District Personnel, and Consultants
FROM:	<u>/s/ David Boruff</u> David Boruff Traffic Administration Section Supervisor
SUBJECT	Traffic Support Division Construction-Zone Reduced-Speed-Limit Sign
REVISES:	Indiana Design Manual Section 83-2.03(01) item 7
EFFECTIVE:	March 9, 2011, Letting

The regulatory sign, R2-15b, "Reduced Speed XX Ahead" should not be specified. Instead, reduced-speed-limit warning sign W3-5 or W3-5a should be specified. The details are shown on Recurring Plan Detail 801-R-174d, attached herewith. Only one of the sign designations should be specified for the entire project.

The recurring plan detail should be called for through the August 10, 2011, letting. It will be superseded by standard drawings beginning with the September 8, 2011, letting.

db:alu Attachment

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		POST DE	SIGN	010110175	SIGN CO	DLOR	BORDER	MARGIN	LETTER HEIGHT	LETTER HEIGHT	LETTER HEIGHT	WORD OR	PCT.	ARROW	SIZE	CORNER	NUMBE POS	
20-2 20-2a 20-4 20-5 20-5 20-5-8 20-6 20-6a 14-9 (R or L) 14-9-8 (R or L) 14-9-8 (R or L) 14-1-4 (R or L) 11-2-4 (R or L) 11-2-8 (R or L) 11-3-8 (R or L) 11-3-4 (R or L) 11-3-4 (R or L) 11-6-4 14-6 14-7	SIGN MESSAGE	4 x 4 WOOD	STEEL	SIGN SIZE	BACKGROUND	COPY	OPY WIDTH	WIDTH	SERIES-LINE 1	SERIES-LINE 2	SERIES-LINE 3	LINE	1	HEAD	SHAFT	RADIUS	ONE	
(G20-1	"Road Construction Next Miles"	*	В	60 x 36	Orange	Black	3/4	1/2	6 - Serles C	6 - Series C	6 - Serles C					2 1/4		
KG20-2	"End Construction"	*	В	60 x 24	Orange	Black	1/2	3/8	6 - Serles C	6 - Series C						1 1/2		
XG20-2a	"End Road Work"	*	В	48 x 18	Orange	Black	1/2	3/8	6 - Serles C	6 - Serles C						1 1/2		2
XG20-4	"Plot Car Follow Me"	-	-	36 x 18	Orange	Black	1/2	3/8	5 - Serles C	5 - Serles C						1 1/2		Γ
XG20-5	(Route number or) "Lane Closed" _ (date)	*	В	48 x 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	6 - Series C					2 1/4		
XG20-5-B	"Worksite" plate	-	-	48 x 16	Orange	Black	1/2	3/8	8 - Serles C	(1 1/2		-
XW20-6	"Lane Restrictions On Or After *** ** 2007	*	В	60 x 30	Orange	Black	3/4	1/2	5 - Serles C	5 - Serles C	4 - Series C					1 7/8		
(W20-6a	"Lane Restrictions On Or After *** ** 2007	*	В	72 x 36	Orange	Black	7/8	5/8	6 - Serles C	6 - Serles C	5 - Series C					2 1/4		
XM4-9 (R or L)	"Detour" (above black arrow)	*	A	30 x 24	Orange	Black	1/2	3/8	5 - Series D			"Detour"		7 x 8	11 x 3 1/2	1 1/2		;
XM4-9-B (R or L)	"Detour" (above black arrow)	*	В	60 x 48	Orange	Black	1 1/4	3/8	10 - Serles D			"Detour"		14 3/4 x 16	21 3/4 x 7	3)
XM4-10 (R or L)	"Detour" (Inside orange arrow)	*	В	48 x 18	Black & Orange	Black		3/8	6 - Series D					12 x 13 3/8	29 3/4 x 8	1 1/2		;
XW1-1-A (R or L)	(Turn symbol)	*	A	36 x 36	Orange	Black	3/4	1/2						10 5/8 x 12	5 1/4	2 1/4		
XW1-1-B (R or L)	(Turn symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4						14 1/8 x 16	7	3		
XW1-2-A (R or L)	(Curve symbol)	*	A	36 x 36	Orange	Black	3/4	1/2						10 5/8 x 12	5 1/4	2 1/4		
XW1-2-B (R or L)	(Curve symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4						14 1/8 x 16	7	3		
XW1-3-A (R or L)	(Reverse turn symbol)	*	A	36 x 36	Orange	Black	3/4	1/2						10 5/8 x 12	5 1/4	2 1/4		
XW1-3-B (R or L)	(Reverse turn symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4						14 1/8 x 16	7	3		
XW1-4-A (R or L)	(Reverse curve symbol)	*	A	36 x 36	Orange	Black	3/4	1/2						10 5/8 x 12	5 1/4	2 1/4		
XW1-4-B (R or L)	(Reverse curve symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4						14 1/8 x 16	7	3		
XW1-6	(Single headed arrow)	*	В	48 x 24	Orange	Black	3/4	3/4						13 1/8 x 15	26 x 6 1/2	1 1/2		
XW1-6-A	(Single headed arrow)	*	В	60 x 30	Orange	Black	3/4	1/2						16 3/8 x 18	32 1/2 x 8	2 1/4		
XW4-2 (R or L)	(Lane ends merge symbol)	*	A	36 x 36	Orange	Black	3/4	1/2	See Stand	lard Sheet 3A Detours	1					2 1/4		
XW4-2-A (R or L)	(Lane ends merge symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4	See Stand	lard Sheet 3A Detours						1 1/2		
XW6-2a-A	(Divided highway ends symbol)	*	A	36 x 36	Orange	Black	3/4	1/2	5 - Serles D	5 - Series D	5 - Serles D					2 1/4		
KW6-2a-B	(Divided highway ends symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Serles D	7 - Series D	7 - Serles D					3		
KW3-5-A	Arrow - "Speed Limit"	*	A	36 x 36	Orange	Black	7/8	5/8	3 - Serles E	3 - Series E	12 - C					2 1/4		
XW3-5-B	Arrow - "Speed Limit"	*	В	48 x 48	Orange	Black	1 1/4	3/4	4 - Series E	4 - Series E	15 C					3		
XW3-5a-A	" MPH - Speed Zone Ahead"	*	A	36 x 36	Orange	Black	7/8	5/8	5 - Serles C	5 - Series C	5 - Serles C					2 1/2		
(W3-5a-B	" - MPH - Speed Zone Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Series C	7 - Series C	7 - Series C					3		

NOTES:

1 Spacing between letters of this word or line shall be reduced by this percentage as shown in the FHWA document, Standard Highway Sign.

2. See Standard Drawing E801-TCSN-11 for additional general notes.

3. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN DETAILS (Sheet 1 of 2) 03-01-11

E 801-T-174d 2 of 4

SIGN NUMBER		POST D	SIGN		SIGN COLOR		BORDER	MARGIN	LETTER HEIGHT	LETTER HEIGHT	LETTER HEIGHT	WORD OR	PCT.	ARROW	SIZE	CORNER		4BER C
SIGN NUMBER	SIGN MESSAGE	4 x 4 WOOD	STEEL	SIGN SIZE	BACKGROUND	COPY	WIDTH	WIDTH	SERIES-LINE 1	SERIES-LINE 2	SERIES-LINE 3	LINE (1)	1	HEAD	SHAFT	RADIUS		OSTS TYPE
KW6-3-B	(Two way traffic symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4				1	1	11 5/8 x 13 3/4	23 1/2 x 6	3	-	_
KW8-1-A	"Bump"	*	Α	36 x 36	Orange	Black	3/4	1/2	10 - Serles D							2 1/4	-	
XW8-1-B	"Bump"	*	В	48 x 48	Orange	Black	1 1/4	3/4	12 - Serles D							3	-	
XW8-2-A	"Dip"	*	Α	36 x 36	Orange	Black	3/4	1/2	10 - Series E							2 1/4		
XW8-2-B	"Dip"	*	В	48 x 48	Orange	Black	1 1/4	3/4	12 - Series E							3		
XW8-3-A	"Pavement Ends"	*	A	36 x 36	Orange	Black	3/4	1/2	6 - Serles C	6 - Series C						2 1/4		\top
XW8-4-A	"Soft Shoulder"	*	A	36 x 36	Orange	Black	3/4	1/2	6 - Serles C	6 - Serles C						2 1/4	-	
XW8-4-B	"Soft Shoulder"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Series C						3		
XW8-6-A	"Truck Crossing"	*	Α	36 x 36	Orange	Black	3/4	1/2	6 - Series C	6 - Serles C						2 1/4	1	+
XW8-6-B	"Truck Crossing"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Series C						3		T
XW9-1-A (R or L)	" Lane Ends"	*	A	36 x 36	Orange	Black	3/4	1/2	6 - Serles D	6 - Serles D	6 - Serles D					2 1/4		T
XW9-1-B (R or L)	" Lane Ends"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Serles D	8 - Series D	8 - Series D					3		T
XW9-2-A (R or L)	"Lane Ends Merge"	*	В	48 x 48	Orange	Black	1 1/4	3/4	6 - Series C	8 - Series D	8 - Series D					2 1/4		\top
XW12-1-C	(Double headed arrow)	*	В	48 x 48	Orange	Black	1 1/4	3/4						12 1/2 x 15	12 x 5 1/4	3		
XW13-1-A	" MPH" (Advisory speed plate)	*	A	24 x 24	Orange	Black	1/2	3/8	10 - Series E	4 - Series E						1 1/2		1-
XW20-1	"Road Construction Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Series C	7 - Serles C	7 - Serles C	"Construction"	25			3		
XW20-1-A	"Road Construction Ahead"	*	В	60 x 60	Orange	Black	1 1/2	1	8 - Serles C	8 - Series C	8 - Serles C	"Construction"	25			95		T
XW20-1a	"Road Repairs Next Miles"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Series C	6 - Series C					3		T
XW20-2	"Detour Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Series D	8 - Series D		"Detour"	25			3		
XW20-3	"Road Closed Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Series D	7 - Series D	7 - Series D					3		
XW20-4	"One Lane Road Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Series C	7 - Series C	7 - Serles C					3		
XW20-5 (R, C, or L)	" Lane Closed Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	6 - Serles C	6 - Series C	6 - Serles C		2			3		-
XW20-7a-A	(Flagger symbol)	*	В	48 x 48	Orange	Black	1 1/4	3/4								1 1/2		\top
XW21-1a	(Workers symbol)	*	А	36 x 36	Orange	Black	3/4	1/2	6 - Serles D							2 1/4		T
XW21-2	"Fresh Oil"	*	A	30 x 30	Orange	Black	3/4	3/8	6 - Serles D	6 - Series D		"Fresh"	2/4			1 7/8	X	+
XW21-2-A	"Fresh OI	*	Α	36 x 36	Orange	Black	3/4	1/2	7 - Serles D	7 - Series D		"Fresh"	3/4			2 1/4	1	T
XW21-3-A	"Road Machinery Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Serles D	7 - Serles D	7 - Serles D	"Machinery"	25			3		T
XW21-4-A	"Road Work Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Serles D	7 - Series D	7 - Series D					3		T
XW21-5-A	"Shoulder Work"	*	A	36 x 36	Orange	Black	3/4	1/2	6 - Series C	6 - Serles C		"Shoulder"	1			2 1/4		
XW21-6-A	"Survey Crew"	*	A	36 x 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C			1			2 1/4		

*Wood post permitted.

1 Spacing between letters of this word or line shall be reduced by this percentage as shown in the FHWA document, Standard Highway Sign.

2. See Standard Drawing E801-TCSN-11 for additional general notes.

3. All dimensions are in inches.

NOTES:

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN DETAILS (Sheet 2 of 2) 03-01-11

SIGN NUMBER	SIGN MESSAGE	POST D	DESIGN		SIGN (COLOR	BORDER	MARGIN	LETTER HEIGHT	LETTER HEIGHT	LETTER HEIGHT	LETTER HEIGHT	ARROW SIZE		CORNER	NUMBER OF	
		4 x 4 WOOD	STEEL	SIGN SIZE	BACKGROUND	COPY	WIDTH	WIDTH	SERIES-LINE 1	SERIES-LINE 2	SERIES-LINE 3	SERIES-LINE 4	HEAD	SHAFT	RADIUS	POSTS ONE TWO	
KW101-1	"Mowing Crews Ahead"	*	А	36 x 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	6 - Series C				2 1/4		Х
(W101-1-A	"Mowing Crews Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Serles C	8 - Series C				3		Х
KW102-1	"Mowing Crews Next Miles"	*	Α	36 x 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	4 - Series C	4 - Series C			2 1/4		Х
XW102-1-A	"Mowing Crews Next Miles"	*	В	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Serles C	6 - Serles C	6 - Serles C			3		Х
XW103-1	"Watch For Stopped Traffic"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Serles C	7 - Serles C	7 - Serles C				3		Х
XW104-1	"Overhead Sign Installation"	*	В	60 x 24	Orange	Black	1/2	3/8	6 - Series C	6 - Series C					1 1/2		Х
XW105-1-A	"Right Lane Exit Open"	*	В	48 x 48	Orange	Black	1 1/4	3/4	6 - Serles C	6 - Serles C					3		Х
XW106-1-A	"Exit Closed"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Serles C	7 - Serles C					3		Х
XW106-2-A	"Exit Open"	*	В	48 x 48	Orange	Black	1 1/4	3/4	7 - Series C	7 - Series C					3		Х
XW108-1	"Utility Work Ahead"	*	A	36 x 36	Orange	Black	3/4	1/2	6 - Series D	6 - Serles D	6 - Serles D				2 1/4		Х
XW108-1-A	"Utility Work Ahead"	*	В	48 x 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series C	6 - Series C				3		Х
XW109-1	"Exit" (above black arrow)	*	В	48 x 48	Orange	Black	1 1/4	3/4	12 - Series D						3		Х
R2-1	"Speed limit"	*	Α	24 x 30	White	Black	1/2	3/8	4 - Series E	4 - Series E	10 - Series E				1/2	X	
R2-1-B	"Speed limit"	*	В	48 x 60	White	Black	1 1/4	3/4	8 - Series E	8 - Series E	16 - Series E				3		Х
R3-2-A (R or L)	(No turn symbol)	*	A	30 x 30	White	Black	3/4	3/8							2	X	
R3-2-C (R or L)	(Noturn symbol)	*	В	48 x 48	White	Black	1 1/4	3/4							3		Х
R4-1	"Do Not Pass"	*	A	24 x 30	White	Black	1/2	3/8	6 - Series D	6 - Serles D	5 - Serles D				1 7/8	Х	
R4-1-B	"Do Not Pass"	*	В	48 x 60	White	Black	1 1/4	3/4	10 - Serles D	10 - Series D	10 - Serles D				3		Х
R5-1-A	"Do Not Enter" (inside symbol)	*	А	36 x 36	Red	White	Radius	17 1/2	5 - Series D	6 x 30 Bar	5 - Series D				2 1/4		х
R5-1-B	"Do Not Enter" (inside symbol)	*	В	48 x 48	Red	White	Radius	23 1/2	6 - Serles D	8 x 40 Bar	6 - Serles D				3		Х
R6-1 (R or L)	"One Way" (inside white arrow)	*	Α	36 x 36	Black & White	Black		3/8	4 - Series D				7 1/2 x 8 1/2	22 1/4 x 5 1/4	1 1/2		Х
R6-2-A (R or L)	"One Way" (above black arrow)	*	A	24 x 30	White	Black	1/2	3/8	6 - Serles D	6 - Serles D			5 1/4 x 6	8 x 2 1/4	1 1/2	Х	
R11-2	"Road Closed"	*	В	48 x 30	White	Black	3/4	3/8	8 - Serles D	8 - Serles D					1 7/8		Х
R11-3	"Road Closed Miles Ahead "Local Traffic Only"	*	В	60 x 30	White	Black	3/4	3/8	6 - Serles C	5 - Serles C	4 - Serles C				1 7/8		х
R11-4	"Road Closed To Thru Traffic"	*	В	60 x 30	White	Black	3/4	3/8	6 - Series C	5 - Series C	6 - Series C				1 7/8		х
R12-1	"Weight Limit Tons"	*	A	24 x 30	White	Black	1/2	3/8	4 - Series D	4 - Series D	5 - Series E	5 - Serles D			1 1/2	X	
R12-1-A	"Weight Limit Tons"	*	В	36 x 48	White	Black	3/4	1/2	6 - Serles D	6 - Series D	8 - Series E	10 - Serles D			2 1/4		х
S 4-4	"When Flashing" plate			48 x 20	White	Black	1/2	3/8	5 - Series D	5 - Series D					1 1/2		
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* Wood post permitted.

GENERAL NOTES

1. See Standard Drawing E 801-TCSN-11 for additional general notes.

2. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DESIGN DETAILS

03-01-11