



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
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Indianapolis, Indiana 46204

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Michael R. Pence, Governor
Brandye L. Hendrickson,
Commissioner

APPROVED MINUTES

May 21, 2015 Standards Committee Meeting

July 10, 2015

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Minutes from the May 21, 2015 Standards Committee Meeting

The Standards Committee meeting was called to order by Mr. Miller at 09:01 a.m. on May 21, 2015 in the N955 Bay Window Conference Room. The meeting was adjourned at 11:18 a.m.

The February 19, 2015 meeting's minutes were reviewed and approved electronically.

The following committee members were in attendance:

Mark Miller, Chairman, Construction Management Director
Bob Cales, Contract Administration Division
Dave Boruff, Traffic Engineering Division
Elizabeth Phillips, Bridges Division
Greg Pankow, State Construction Engineer
Michael Koch, Fort Wayne District Area Engineer
Peter Yao, Road Services
Ron Walker, Materials Management
Rob Goldner, Construction Technical Support
Kumar Dave, Pavement Engineering, Highway Design
Louis Feagans, Production Management

Also in attendance were the following:

Dan Osborn, ICA
Tom Duncan, FHWA
Lana Podorvanova, INDOT
Steve Fisher, INDOT
Derrick Hauser, INDOT

Scott Trammell, INDOT
Ellis Holder, INDOT
Andrew Pangallo, INDOT
Joseph Bruno, INDOT
Lalit Garg, INDOT

The following items were listed for consideration:

A. GENERAL BUSINESS ITEMS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

1. [EDITORIAL REVISION TO 805-T-201](#) ACCESSIBLE PEDESTRIAN SIGNALS/Ms. Phillips, [pg 05](#)

DISCUSSION: Editorial revisions were presented by Ms. Phillips. The committee members were in agreement with the revisions presented. Revisions will take effect on September 01, 2015.

Note: after receiving comments and further review following this meeting, the chairman, Mr. Miller, has determined to withdraw this item and to present with an additional changes for consideration on the June 18, 2015 Standards committee meeting.

2. [EDITORIAL REVISION TO 100-C-203](#) INDIANA DEPARTMENT OF ADMINISTRATION M/WBE PARTICIPATION POLICY FOR INDIANA DEPARTMENT OF TRANSPORTATION CONSTRUCTION PROJECTS/Mr. Trammell, [pg 07](#)

DISCUSSION: Editorial revisions were presented by Mr. Trammell. The committee members were in agreement with the revisions presented.

B. CONCEPTUAL PROPOSAL ITEMS

OLD BUSINESS

(No items were on this agenda)

NEW BUSINESS

(No items were on this agenda)

C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS PROPOSED ITEMS

OLD BUSINESS

(No items were on this agenda)

NEW BUSINESS

Item No. 01 (2016 SS)	Mr. Pankow	pg 08
808.12	Method of Measurements	

ACTION: PASSED AS REVISED

Item No. 02 (2016 SS)	Mr. Boruff	pg 12
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Standard Drawings:

~~801-TCSN-0102~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-02~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-03~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-04~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-05~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-06~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-07~~	TRAFFIC CONTROL SIGNS
~~801-TCSN-0803~~	TRAFFIC CONTROL SIGNS

801-TCSN-09	TRAFFIC CONTROL SIGNS
801-TCSN-10	TRAFFIC CONTROL SIGNS
801-TCSN- ~~1101~~	CONSTRUCTION SIGNS GENERAL NOTICE
801-TCSN- ~~1204~~	<i>TRAFFIC CONTROL</i> SIGN DESIGN DETAILS
801-TCSN- ~~12A05~~	<i>TRAFFIC CONTROL</i> SIGN DESIGN DETAILS
801-TCSN- ~~1306~~	<i>TRAFFIC CONTROL</i> SIGN DESIGN DETAILS
801-TCSN- ~~1407~~	TEMPORARY PANEL SIGN BREAKAWAY POST INSTALLATION
801-TCSN- ~~1508~~	WOOD POST DESIGN FOR TEMPORARY PANEL SIGNS
Recurring Special Provisions: 801-R-542	WORKSITE ADDED PENALTY SIGNS
Recurring Plan Details: 801-R-542d 801-R-543d 801-R-544d 801-T-203d	WORKSITE ADDED PENALTY SIGN 78X42 WORKSITE ADDED PENALTY SIGN 60X36 WORKSITE ADDED PENALTY SIGN 48X48 LANE ENDS WARNING SIGNS
Standard Drawings: 801-TCDV- ~~0102~~ 801-TCDV- ~~0201~~	CHANNELIZING DEVICES ~~CHANNELIZING DEVICES~~ INDEX SHEET <i>TRAFFIC CONTROL DEVICES</i>
801-TCDV-03	MERGING OR SHIFTING TAPER
801-TCDV-04	TYPE III BARRICADE
801-TCDV-05	TYPICAL CONSTRUCTION SIGNS MOUNTING
801-TCDV-06	TYPE III BARRICADE ~~TYPICAL~~ APPLICATION FOR ROADS CLOSURE FOR THRU TRAFFIC
801-TCDV-07	TYPE III BARRICADE ~~TYPICAL~~ APPLICATIONS FOR ROAD CLOSURE TO ALL TRAFFIC
801-TCDV-08	U CHANNEL STEEL POST SPLICE DETAIL
801-TCDV-09	~~BUZZ STRIP INSTALLATION~~ TEMPORARY TRANSVERSE RUMBLE STRIP INSTALLATION
801-TCDV-10	WORKSITE SPEED LIMIT SIGN ASSEMBLY FOR INTERMITTENT USE
801-TCDV-11	WORKSITE SPEED LIMIT SIGN ASSEMBLY
801-TCDV-12	WORKSITE SPEED LIMIT SIGN ASSEMBLY LONGITUDINAL PLACEMENT
801-TCLG-01	TRAFFIC CONTROL LEGEND AND GENERAL NOTES
ACTION:	PASSED AS REVISED
<u>Item No. 03 (2016 SS)</u>	<u>Mr. Goldner</u> <u>pg 81</u>
Recurring Special Provision: 107-X-XXX	INSPECTION HOLE
ACTION:	PASSED AS REVISED
<u>Item No. 04 (2016 SS)</u>	<u>Mr. Goldner</u> <u>pg 86</u>
Recurring Special Provision: 211-R-415	CRUSHED GLASS AS BEDDING MATERIAL
ACTION:	PASSED AS SUBMITTED

cc: Committee Members
FHWA
ICA

GENERAL BUSINESS ITEM

1. EDITORIAL REVISION TO 805-T-201 ACCESSIBLE PEDESTRIAN SIGNALS

805-T-201 ACCESSIBLE PEDESTRIAN SIGNALS

(Revised xx-xx-xx)

The Standard Specifications are revised as follows:

SECTION 805, AFTER LINE 30, INSERT AS FOLLOWS:

Pedestrian push buttons shall be the type designated in the contract documents, APS or Non-APS.

SECTION 805, AFTER LINE 216, INSERT AS FOLLOWS:

When installing push buttons with accessible pedestrian signal, APS, features the Contractor shall verify that the audible tone is discernible from the mid-point of the crosswalk.

SECTION 805, BEGIN LINE 735, DELETE AS FOLLOWS:

The cost of the push button, pedestrian actuated signal sign, any accessible pedestrian signal components ~~as shown on the plans~~, and all hardware required to complete the installation shall be included in the cost of pedestrian push button.

SECTION 922, BEGIN LINE 816, DELETE AND INSERT AS FOLLOWS:

(b) Pedestrian Push-Button

~~Pedestrian push-button assemblies shall be ADA compliant.~~ *Pedestrian push-button assemblies shall meet the standards of the MUTCD and Americans with Disabilities Act, ADA. Pedestrian push-button assemblies shall be vandal and weather resistant, be pressure activated with minimal movement, and cannot be stuck in a closed or constant call position. A red latching LED and audible tone shall be provided for confirmation of an actuation call.*

A type D certification in accordance with 916 shall be provided. Such certification shall contain the contract number, manufacturer's name, model name, supplier's name, location or intersection name, and for a type APS pedestrian push button, the sound level measurement of the audible features of the device.

1. Housing

The pedestrian push-button housing shall be constructed of cast aluminum or stainless steel and powder coated yellow, and furnished with suitable mounting hardware.

2. Latching LED

The normal state of the LED shall be off. When the push-button is pressure activated, the LED shall be lighted and remain on until the beginning of the walk phase. The latching relay shall be mounted in the signal cabinet, controlling two pedestrian phases.

3. Actuator

The actuator shall be stainless steel *or aluminum with a minimum diameter of 2 in.* and a solid state electronic Piezo switch rated for a minimum of 20 million cycles with no moving plunger or moving electrical contacts. The operating voltage shall be 12-

GENERAL BUSINESS ITEM

1. EDITORIAL REVISION TO 805-T-201 ACCESSIBLE PEDESTRIAN SIGNALS

24V AC/DC. The actuator's nominal operating force shall be approximately 1 not exceed 5 lb.

4. Sign

The pedestrian information sign shall be according to the R10-3e in accordance with the MUTCD, unless a different MUTCD sign code is indicated on the plans. The legend on the sign shall either be all words or a combination of words and symbol to match the pedestrian signal. The sign base shall be sheet aluminum in accordance with 919.01(b).

5. Accessible Pedestrian Push Buttons

When accessible pedestrian signals, APS, are specified the push-button shall have audible and tactile features. The push-button shall activate both the Walk interval and the APS. The color of the actuator shall contrast visually with the housing or mounting. A standard manufacturer's warranty shall be provided.

a. Audible Features

The pedestrian push-button assembly shall include an audible indication of the Walk interval by either tone or voice and shall be audible from the near side of the associated crosswalk. If the tone for the Walk interval is the same as the locator tone of the push-button it shall have a faster repetition rate than the associated locator tone. The volume of the audible features shall have automatic volume adjustment based on the ambient noise levels. Audible features shall be at least 2 dB but no more than 5 dB louder than ambient sound up to a maximum volume of 89 dB measured at 36 in. from the device. Audible features may be integral to the pedestrian push-button assembly or through a separate speaker housing.

When push buttons are separated by 10 ft or more, the audible indication shall be a tone.

When push buttons are separated by less than 10 ft, the indication shall be a voice message. When voice messages are used, they shall include a clear message that the walk interval is in effect and shall indicate to which crossing it applies.

The pedestrian push button shall have an audible locator tone feature. The locator tone shall have a duration of 0.15 seconds or less and shall repeat at 1 second intervals.

b. Tactile Features

The push button assembly/actuator shall incorporate a raised arrow. The arrow shall be raised 0.03125 in. minimum and shall be 1.5 in. minimum in length. The arrow color shall contrast with the background. The push button shall vibrate to indicate that the walk interval is in effect.

GENERAL BUSINESS ITEM

2. EDITORIAL REVISION TO 100-C-203 INDIANA DEPARTMENT OF ADMINISTRATION
M/WBE PARTICIPATION POLICY FOR INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PROJECTS

100-C-203 INDIANA DEPARTMENT OF ADMINISTRATION M/WBE PARTICIPATION
POLICY FOR INDIANA DEPARTMENT OF TRANSPORTATION CONSTRUCTION PROJECTS

(Revised xx-xx-xx)

The Indiana Department of Administration, IDOA, and the Indiana Department of Transportation, INDOT, are committed to the participation of Minority and Women's Business Enterprises, MBE/WBE, in the State's procurement and contracting process. As a result, MBE and WBE participation is required or evidence is required of adequate Good Faith Efforts to obtain such participation as a specification in bids for construction services with subcontracting opportunities—effective January 1, 2006. ~~See~~ in accordance with Indiana Administrative Code 25 IAC-5-7-5. All Indiana Department of Transportation projects with 100% state funding will be governed by this provision.

The goals for participation of Minority and Women owned business in the performance of this contract shall be as stated on the proposal page of this Contract Information Book. Contract compliance shall be as set forth and presented on the internet web page found at <http://www.in.gov/idoa/mwbe/index.htm> and administered by the IDOA.

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO STANDARD SPECIFICATIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Method of measurement is not in line with what is being done in the field to measure dotted lines. SiteManager Template has never worked because of the difficulty in the data entry process. Method of Measurement should match field processes.

PROPOSED SOLUTION: Calculate dotted line by counting the number of dotted lines and multiplying that number by the length of line shown on the plans.

APPLICABLE STANDARD SPECIFICATIONS: 808.12

APPLICABLE STANDARD DRAWINGS: 808-DLIM

APPLICABLE DESIGN MANUAL SECTION:

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISIONS:

PAY ITEMS AFFECTED: LINE (LFT)

IMPACT ANALYSIS (attach report):

Submitted By: by Ellis Holder for Greg Pankow

Title: Operation Analyst

Organization: INDOT

Phone Number: 317-232-0678

Date: 04/28/2015

APPLICABLE SUB-COMMITTEE ENDORSEMENT:

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO STANDARD SPECIFICATIONS

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

Does this item appear in any other specification sections? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs? No

Construction time? Yes

Customer satisfaction? Yes

Congestion/travel time? No

Ride quality? No

Will this proposal reduce operational costs or maintenance effort? No/Yes;

Will this item improve safety:

For motorists? No

For construction workers? Yes

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? No

Design process? No

Will this change provide the contractor more flexibility? No

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? No

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? Yes

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda:

REVISION TO SPECIAL PROVISIONS

SECTION 808 PAVEMENT TRAFFIC MARKINGS

808.12 METHOD OF MEASUREMENTS

The Standard Specifications are revised as follows:

SECTION 808, BEGIN LINE 564, DELETE AND INSERT AS FOLLOWS:

808.12 Method of Measurement

Broken or dotted lines, placed or removed, will be measured ~~as 1/4 of the total distance in linear feet of the broken or dotted line pattern after excluding gaps for intersections or other openings~~ *by counting the number of broken or dotted lines placed and multiplying the number of counted lines by the length of the broken or dotted line as shown on the plans.* Solid lines will be measured as the total distance in linear feet of solid lines placed or removed. The material, type, color, or width of broken, dotted, or solid lines to be removed will not be considered when measuring such lines for payment.

COMMENTS AND ACTION

808.12 METHOD OF MEASUREMENTS

DISCUSSION:

This item was introduced by Mr. Pankow who expressed the need to measure dotted and broken pavement markings in a more efficient manner. Mr. Yao commented on the confusion that may arise from the language stating "as shown on the plans" and it was agreed to remove that portion.

Mr. Pankow revised his motion and Mr. Cales seconded. There was no further discussion.

Note: Originally approved letting effective date for August 01, 2015 was revised to September 01, 2015. This RSP will go along with 2016 Standard Specifications.

Motion: Mr. Pankow Second: Mr. Cales Ayes: 10 Nays: 0 FHWA Approval: YES	Action: <table> <tr> <td>☐</td><td>Passed as Submitted</td></tr> <tr> <td>☒</td><td>Passed as Revised</td></tr> <tr> <td>☐</td><td>Withdrawn</td></tr> </table>	☐	Passed as Submitted	☒	Passed as Revised	☐	Withdrawn
☐	Passed as Submitted						
☒	Passed as Revised						
☐	Withdrawn						
Standard Specifications Sections referenced and/or affected: 808.12 pg 831.	<table> <tr> <td>☒</td><td>2018 Standard Specifications</td></tr> <tr> <td>☐</td><td>Revise Pay Items List</td></tr> </table>	☒	2018 Standard Specifications	☐	Revise Pay Items List		
☒	2018 Standard Specifications						
☐	Revise Pay Items List						
Recurring Special Provision affected: NONE	<table> <tr> <td>☒</td><td>Create RSP (No.808-T-208) Effective Sept. 01 2015 Letting RSP Sunset Date: Sep. 01, 2017</td></tr> </table>	☒	Create RSP (No.808-T-208) Effective Sept. 01 2015 Letting RSP Sunset Date: Sep. 01, 2017				
☒	Create RSP (No.808-T-208) Effective Sept. 01 2015 Letting RSP Sunset Date: Sep. 01, 2017						
Standard Drawing affected: NONE	<table> <tr> <td>☐</td><td>Revise RSP (No._____) Effective _____ Letting RSP Sunset Date:</td></tr> </table>	☐	Revise RSP (No._____) Effective _____ Letting RSP Sunset Date:				
☐	Revise RSP (No._____) Effective _____ Letting RSP Sunset Date:						
Design Manual Sections affected: NONE	<table> <tr> <td>☐</td><td>Standard Drawing Effective</td></tr> </table>	☐	Standard Drawing Effective				
☐	Standard Drawing Effective						
GIFE Sections cross-references: NONE	<table> <tr> <td>☐</td><td>Create RPD (No._____) Effective _____ Letting</td></tr> <tr> <td>☐</td><td>GIFE Update</td></tr> </table>	☐	Create RPD (No._____) Effective _____ Letting	☐	GIFE Update		
☐	Create RPD (No._____) Effective _____ Letting						
☐	GIFE Update						

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Certain information found in the 801-TCDV, TCLG, and TCSN standard drawings are either out-of-date, inconsistent with the MUTCD, or common practice. Within the TCDV series in particular, the merge and shift taper lengths are missing info for 60 and 70 mph speed limits, the dimensions for tubular markers should be more flexible, and the barricade layout for road closures that are open to local traffic show too many barricades. 801-TCLG-01 shows a crossover pavement design but all crossover pavement design is now determined by the Pavement Division. Within the TCSN series many of the signs can be deleted since they are shown in the Indiana MUTCD and Standard Highway Signs Book issued by FHWA.

PROPOSED SOLUTION: Update the TCDV, TCLG, and TCSN standard drawings series to eliminate the incorrect or unnecessary information.

APPLICABLE STANDARD SPECIFICATIONS: 801 and 923

APPLICABLE STANDARD DRAWINGS: (29) 801-TCDV-01, 801-TCDV-02, 801-TCDV-03, 801-TCDV-04, 801-TCDV-05, 801-TCDV-06, 801-TCDV-07, 801-TCDV-08, 801-TCDV-09, 801-TCDV-10, 801-TCDV-11, 801-TCDV-12, 801-TCLG-01, 801-TCSN-01, 801-TCSN-02, 801-TCSN-03, 801-TCSN-04, 801-TCSN-05, 801-TCSN-06, 801-TCSN-07, 801-TCSN-08, 801-TCSN-09, 801-TCSN-10, 801-TCSN-11, 801-TCSN-12, 801-TCSN-12A, 801-TCSN-13, 801-TCSN-14, 801-TCSN-15.

APPLICABLE DESIGN MANUAL SECTION: 83

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISIONS: 801-R-542d, 801-R-543d, 801-R-544d, 801-T-203d

PAY ITEMS AFFECTED: 801-6775 Maintaining Traffic (LS)

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Yes, endorsed by the Traffic Standards Subcommittee.

IMPACT ANALYSIS (attach report): Yes, attached.
Submitted By: Dave Boruff

Title: Manager, Office of Traffic Administration

Organization: INDOT

Phone Number: (317) 234-7975

Date: 4/29/15

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

Does this item appear in any other specification sections? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs? Yes (allows better tubular markers)

Construction time? No

Customer satisfaction? Yes (improves traffic control plans)

Congestion/travel time? Yes (corrects channelization)

Ride quality? No

Will this proposal reduce operational costs or maintenance effort? No

Will this item improve safety:

For motorists? Yes (proper channelization)

For construction workers? Yes (improves traffic control plans)

Will this proposal improve quality for:

Construction procedures/processes? Yes (see above)

Asset preservation? No

Design process? Yes (see above)

Will this change provide the contractor more flexibility? Yes (more durable tubular markers can now be used)

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? Yes

Is this proposal needed for compliance with:

Federal or State regulations? Yes (MUTCD)

AASHTO or other design code? No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: N/A

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

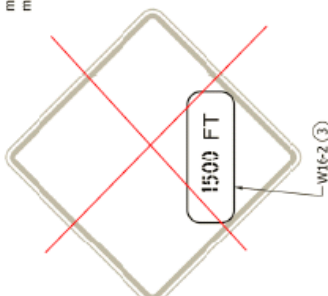
801-TCSN-01 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

Consolidate ten sheets into two - show only signs unique to Indiana

NOTES:

- 1- Sign XW21-3-A shall be placed as directed where road machinery is operating on or across pavement open to traffic.
- 2- See Standard Drawing E 801-TCSN-11 for additional general notes.
- 3- A 28 in. x 10 in. metal plate, covered with federal orange reflective material with black numerals designating predetermined distance, may be attached over the word "AHEAD" to more specifically locate the subject hazard.







INDIANA DEPARTMENT OF TRANSPORTATION	
TRAFFIC CONTROL SIGNS	
SEPTEMBER 2010	02
STANDARD DRAWING NO. E 801-TCSN-01	
	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER DATE 09/01/10
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER DATE 09/01/10

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-02 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

GENERAL NOTES

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

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL
SIGNS
 SEPTEMBER 1997

STANDARD DRAWING NO. E 801-TCSN-02
 DETAILS PLACED IN THE 1997 EDITION

APPROVED FOR THE BOARD OF SUPERVISORS
 DATE OF ADOPTION: 11-18-99
 BY: Anthony J. Dransich, P.E., P.E.
 COUNTY ENGINEER

APPROVED FOR THE BOARD OF SUPERVISORS
 DATE OF ADOPTION: 11-18-99
 BY: James Zandi
 COUNTY ENGINEER

CONSOLIDATE ten sheets into two - show only signs unique to Indiana

SURVEY CREW
 XW21-6-A (9)

FRESH OIL
 XW21-2 (9)
 XW21-2-A (1)

WORKERS
 XW21-1 (9)

RIGHT LANE CLOSED AHEAD
 XW20-5 (R.L. or C) (10)

SHOULDER WORK
 XW21-5-A

PEDESTRIAN
 XW20-7 (9)
 (10)

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-03 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

GENERAL NOTES

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

Consolidate ten sheets into two - show only signs unique to Indiana

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL SIGNS
JUNE 1995

STANDARD DRAWING NO. E 801-TCSN-03
DETAILS PLACED IN THIS FORM: 1-5-99

APPROVED: [Signature] No. 18095 DATE 9/15/99
DESIGNED: [Signature] DATE 9/15/99
CHECKED: [Signature] DATE 9/15/99
ORIGINAL: [Signature] DATE 9/15/99

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
801-TCSN-04 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

Consolidate ten sheets into two - show only signs unique to Indiana

NOTES:

1. Signs R11-2, R11-3, R11-4, R5-1-A and R5-1-B shall be primary reflective sheeting background.
2. See Standard Drawing E 801-TCSN-11 for additional general notes.

SPEED LIMIT 30
R2-1
R2-1-A
R2-1-B ①

ONE WAY
R6-1 (R or L)

ROAD CLOSED
R11-2

WEIGHT LIMIT 10 TONS
R12-1
R12-1-A ①

ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3

ONE WAY
R6-2-A (R or L)

DO NOT ENTER
R5-1-A
R5-1-B ①

DO NOT PASS
R4-1
R4-1-B ①

ROAD CLOSED TO THRU TRAFFIC
R11-4

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNS

SEPTEMBER 2010

STANDARD DRAWING NO. E 801-TCSN-04

REGISTERED ENGINEER
NO. 9750
STATE OF INDIANA
RICHARD L. VANCE
DESIGN STANDARDS ENGINEER

DESIGN STANDARDS ENGINEER
/s/ Richard L. Vance
DATE 09/01/10

CHIEF HIGHWAY ENGINEER
/s/ Mark A. Miller
DATE 09/01/10

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
 801-TCSN-05 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

Consolidate ten sheets into two - show only signs unique to Indiana

NOTE:
 ① See Standard Drawing E 801-TCSN-11 for additional general notes,

LANE ENDS	
XW4-2	XW4-2-A
A	28
B	4
C	4
D	1
E	14
F	4
G	10
H	10

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL SIGNS
 SEPTEMBER 2010
 STANDARD DRAWING NO. E 801-TCSN-05

DESIGN STANDARDS ENGINEER
 /s/ Richard C. VanCleave
 DATE 09/01/10

CHIEF HIGHWAY ENGINEER
 /s/ Mark A. Miller
 DATE 09/01/10

PROFESSIONAL ENGINEER
 NO. 9750
 STATE OF INDIANA
 RICHARD C. VANCLEAVE

TRAFFIC CONTROL SIGNS
 XW1-1-A (R or L)
 XW1-1-B (R or L) ①

TRAFFIC CONTROL SIGNS
 XW1-2-A (R or L)
 XW1-2-B (R or L) ①

TRAFFIC CONTROL SIGNS
 XW1-3-A (R or L)
 XW1-3-B (R or L) ①

TRAFFIC CONTROL SIGNS
 XW4-2 (R or L)
 XW4-2-A (R or L) ①

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
801-TCSN-06 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

NOTE:
① See Standard Drawing E 801-TCSN-01 for additional general notes.

Consolidate ten sheets into two - show only signs unique to Indiana

35 MPH SPEED ZONE AHEAD
XW3-5a

PAVEMENT ENDS
XW8-3-A

35 M.P.H.
XW13-1-A
(To be used below a warning sign only.)

↑
XW1-6
XW1-6-A ①

35
SPEED LIMIT
XW3-5

DIVIDED HIGHWAY ENDS
XW6-2a-A
XW6-2b-B ①

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL SIGNS
SEPTEMBER 2011
STANDARD DRAWING NO. E 801-TCSN-06

REGISTERED PROFESSIONAL ENGINEER
L. VanCleave
NO. 9750
STATE OF INDIANA
DESIGN STANDARDS ENGINEER
DATE 09/01/11
/s/ Richard L. VanCleave
/s/ Mark A. Miller
CHIEF HIGHWAY ENGINEER
DATE 09/01/11

Date: 5/21/15

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-07 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

GENERAL NOTES

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



DIP

XW8-2-A
XW8-2-B

(1)



**TRUCK
CROSSING**

XW8-6-A
XW8-6-B

(1)



BUMP

XW8-1-A
XW8-1-B

(1)



**SOFT
SHOULDER**

XW8-4-A
XW8-4-B

(1)



**LANE ENDS
MERGE
LEFT**

XW9-2-A (R or L)

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL
SIGNS
JUNE 1995

STANDARD DRAWING NO. E 801-TCSN-07

DETAILS PLACED IN THIS FORM: 1-3-98

By: Anthony J. Unsworth, P.E. 8-8-98
DESIGN: TRANSPORTATION DIVISION

By: Phyllis Bracki, 8-4-98
CHECK: TECHNICAL SERVICES

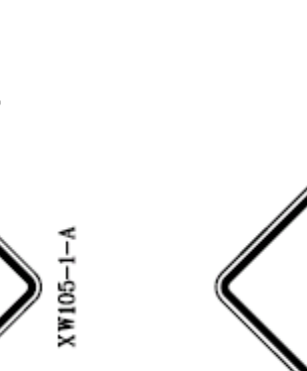
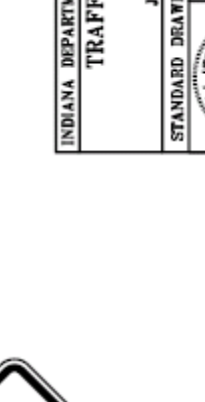
DESIGN: TRANSPORTATION DIVISION

ORIGINAL: JAMES 1-3-98

Date: 5/21/15

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-08 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

GENERAL NOTES 1. See Standard Drawing E 801-TCSN-11 for additional general notes.		 XW20-1a	
 XW109-1		 XW106-1-A	
 XW105-1-A		 XW106-2-A	
INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SIGNS JUNE 1995 02 STANDARD DRAWING NO. E 801-TCSN-08 DETAILS PLACED IN THE JOURNAL 1-8-98 By Anthony L. Drenth, Jr. P.E. 1-8-98 DESIGN ENGINEER By Phyllis Smith P.E. 1-8-98 CHECK ENGINEER APPROVAL: JAMES H. [Signature] 1-8-98 SUPERVISOR INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SIGNS JUNE 1995 02 STANDARD DRAWING NO. E 801-TCSN-08 DETAILS PLACED IN THE JOURNAL 1-8-98 By Anthony L. Drenth, Jr. P.E. 1-8-98 DESIGN ENGINEER By Phyllis Smith P.E. 1-8-98 CHECK ENGINEER APPROVAL: JAMES H. [Signature] 1-8-98 SUPERVISOR			

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-09 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

NOTE: ① See Standard Drawing E-801-TCSN-11 for additional general notes.		INDIANA DEPARTMENT OF TRANSPORTATION	
Consolidate ten sheets into two - show only signs unique to Indiana		TRAFFIC CONTROL SIGNS	
RIGHT LANE ENDS XW104-1 (R or L) XW104-2 (R or L) ①		SEPTEMBER 2010	
WATCH FOR STOPPED TRAFFIC Move to 801-TCSN-01 XW103-1		STANDARD DRAWING NO. E 801-TCSN-09	
OVERHEAD SIGN INSTALLATION XW104-1 To be used below an XW104-1 sign only. Move to 801-TCSN-01		DESIGN STANDARDS ENGINEER /s/ Richard L. VanCleave 09/01/10 DATE /s/ Mark A. Miller 09/01/10 DATE	

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-10 TRAFFIC CONTROL SIGNS (WITH MARKUPS)

GENERAL NOTES 1. See Standard Drawing E 801-TCSN-11 for additional general notes.		INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SIGNS JUNE 1985 STANDARD DRAWING NO. E 801-TCSN-10 DETAILS PLACED IN THE FORMAT 11-10-90 By: Anthony L. Iwanicki P.E. 11-10-90 SECTION ENGINEER, BENTLEY By: Person Zaradi P.E. 11-10-90 SECTION ENGINEER, BENTLEY OFFICIAL APPROVED 7-02-96	
Consolidate ten sheets into two - show only signs unique to Indiana	MOWING CREWS AHEAD XW101-1 XW101-1-A 9 10 1	MOWING CREWS NEXT 5 MILES XW102-1 XW102-1-A 9 1	UTILITY WORK AHEAD XW108-1 XW108-1-A 10 1

Move to 801-TCSN-01

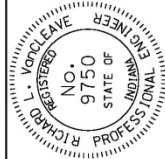
Move to 801-TCSN-01

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-11 CONSTRUCTION SIGNS GENERAL NOTES (WITH MARKUPS)

GENERAL NOTES:

- ① ~~This sign shall be used on expressways, freeways, and other roadways with design speeds of 50 mph or more.~~
- 1 The minimum vertical and horizontal clearances for construction signs shall be as on Standard Drawing E 801-TCDV-05.
- 2 The minimum horizontal clearance for construction signs on curbed roadway sections shall be 2'-0" from the face of the curb to the near edge of the sign.
- 3 The minimum depth for wood or steel posts shall be 4 ft.
- 4 See Standard Drawing E 801-TCDV-08 for U-Channel Steel Post Splice Detail.
- 5 This sign shall be removed, covered, or turned to face away from the roadway during non-working hours.
- ⑩ This sign may be ordered to read "500 FT", "1000 FT", or "1500 FT" in place of the word "Ahead". Such signs may be used in place of, or in conjunction with, the indicated sign.

INDIANA DEPARTMENT OF TRANSPORTATION	
TRAFFIC CONTROL SIGNS - INDEX SHEET CONSTRUCTION SIGNS GENERAL NOTES	
SEPTEMBER 2010 01	
STANDARD DRAWING NO. E 801-TCSN-11	
	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER
	DATE 09/01/10
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER
	DATE 09/01/10

25

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-12A SIGN DESIGN DETAILS (WITH MARKUPS)

Add column for MUTCD sign code and rearrange sign order to regulatory, warning, and then guide signs.

SIGN NUMBER	SIGN MESSAGE	POST DESIGN	SIGN SIZE	SIGN COLOR		BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES-LINE 1	LETTER HEIGHT SERIES-LINE 2	LETTER HEIGHT SERIES-LINE 3	WORD OR LINE ①	PCT. ①	ARROW SIZE		CORNER RADIUS	NUMBER OF PASTS ONE TWO
				BACKGROUND	COPY								HEAD	SHAFT		
XW01-3-B	(Two way traffic symbol)	STEEL	48 x 48	Orange	Black	1 1/4	3/4						11.50 x 13 3/4	23.1/2 x 6	3	X
XW01-1-A	"Bump"	"A"	36 x 36	Orange	Black	3/4	1/2	10 - Series D							2 1/4	X
XW01-1-B	"Bump"	"B"	48 x 48	Orange	Black	1 1/4	3/4	12 - Series D							3	X
XW01-2-A	"Dip"	"A"	36 x 36	Orange	Black	3/4	1/2	10 - Series E							2 1/4	X
XW01-2-B	"Dip"	"B"	48 x 48	Orange	Black	1 1/4	3/4	12 - Series E							3	X
XW01-3-A	"Reverser Ends"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series C							2 1/4	X
XW01-3-B	"Soft Shoulder"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series C							2 1/4	X
XW01-4-A	"Soft Shoulder"	"B"	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C							3	X
XW01-6-A	"Truck Crossing"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series C							2 1/4	X
XW01-6-B	"Truck Crossing"	"B"	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C							3	X
XW01-12 (R or L)	"____ Lane Ends"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series D							2 1/4	X
XW01-12 (R or L)	"____ Lane Ends"	"B"	48 x 48	Orange	Black	1 1/4	3/4	8 - Series D							3	X
XW01-24 (R or L)	"Lane Ends Merge ____"	"A"	48 x 48	Orange	Black	1 1/4	3/4	6 - Series C					12 1/2 x 15	12 x 6 1/4	3	X
XW012-1-C	(Double headed arrow)	"B"	48 x 48	Orange	Black	1 1/4	3/4	10 - Series E							1 1/2	----
XW013-1-A	"____ MHT (Motorway speed plate)"	"A"	24 x 24	Orange	Black	1/2	3/8	7 - Series C			"Construction"	25			3	
XW013-1-B	"Road Construction Ahead"	"B"	48 x 48	Orange	Black	1 1/4	3/4	7 - Series C			"Construction"	25			95	X
XW013-1-C	"Road Construction Ahead"	"B"	60 x 60	Orange	Black	1 1/2	1	8 - Series C			"Construction"	25			3	X
XW013-1-D	"Road Reopens Next ____ Miles"	"A"	48 x 48	Orange	Black	1 1/4	3/4	8 - Series C							3	X
XW013-1-E	"Road Reopens Next ____ Miles"	"B"	60 x 48	Orange	Black	1 1/4	3/4	8 - Series C			"Dissolve"	25			3	X
XW020-2	"Detour Ahead"	"A"	48 x 48	Orange	Black	1 1/4	3/4	7 - Series D							3	X
XW020-3	"Road Closed Ahead"	"B"	48 x 48	Orange	Black	1 1/4	3/4	8 - Series D							3	X
XW020-4	"One Lane Road Ahead"	"A"	48 x 48	Orange	Black	1 1/4	3/4	7 - Series D							3	X
XW020-5 (R, C, or L)	"____ Lane Closed Ahead"	"B"	48 x 48	Orange	Black	1 1/4	3/4	7 - Series C				2			3	X
XW020-7-A-A	(Flagger symbol)	"A"	48 x 48	Orange	Black	1 1/4	3/4	6 - Series C							3	X
XW020-7-A-B	(Workers symbol)	"A"	48 x 48	Orange	Black	1 1/4	3/4	6 - Series C							1 1/2	X
XW021-1-A	"Fresh Off"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series D							2 1/4	X
XW021-2	"Fresh Off"	"A"	30 x 30	Orange	Black	3/4	3/8	6 - Series D			"Fresh"	2 1/4			1 7/8	X
XW021-2-A	"Fresh Off"	"A"	36 x 36	Orange	Black	3/4	1/2	7 - Series D			"Fresh"	3 1/4			2 1/4	X
XW021-3-A	"Road Machinery Ahead"	"A"	48 x 48	Orange	Black	1 1/4	3/4	7 - Series D			"Machinery"	25			3	X
XW021-4-A	"Road Work Ahead"	"B"	48 x 48	Orange	Black	1 1/4	3/4	7 - Series D							3	X
XW021-5-A	"Shoulder Work"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series C							2 1/4	X
XW021-5-A-A	"Shoulder Work"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series C			"Shoulder"	1			2 1/4	X
XW021-5-A-B	"Shoulder Work"	"A"	36 x 36	Orange	Black	3/4	1/2	6 - Series C							2 1/4	X

*Wood post permitted.

NOTES:

- ① Spacing between letters of this word or line shall be reduced by this percentage as shown in the FHWA document, Standard Highway Signs.
2. See Standard Drawing E 801-TCSN-11 for additional general notes.
3. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
SIGN DESIGN DETAILS
(sheet 2 of 2)

SEPTEMBER 2011

05

STANDARD DRAWING NO. E 801-TCSN-12A



/s/ Richard L. VanCleave
DESIGN STANDARDS ENGINEER

09/01/11

DATE

/s/ Mark A. Miller
CHIEF HIGHWAY ENGINEER

09/01/11

DATE

DESIGN STANDARDS ENGINEER

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS 801-TCSN-13 SIGN DESIGN DETAILS (WITH MARKUPS)

SIGN NUMBER	SIGN MESSAGE	POST DESIGN 4 x 4 WOOD STEEL	SIGN SIZE	SIGN COLOR	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES-LINE 1	LETTER HEIGHT SERIES-LINE 2	LETTER HEIGHT SERIES-LINE 3	LETTER HEIGHT SERIES-LINE 4	ARROW SIZE HEAD SHAFT	CORNER NO. OF POSTS RADIUS ONE TWO
XW101-1	"Mowing Crews Ahead"	* A	36 x 36	Orange	3/4	1/2	6 - Series C	6 - Series C	6 - Series C	6 - Series C		2 1/4
XW101-1-A	"Mowing Crews Ahead"	* B	48 x 48	Orange	1 1/4	3/4	8 - Series C	8 - Series C	8 - Series C	8 - Series C		3
XW102-1	"Mowing Crews Next Miles"	* A	36 x 36	Orange	3/4	1/2	6 - Series C	6 - Series C	6 - Series C	6 - Series C		2 1/4
XW102-1-A	"Mowing Crews Next Miles"	* B	48 x 48	Orange	1 1/4	3/4	8 - Series C	8 - Series C	8 - Series C	8 - Series C		3
XW103-1	"Watch For Stopped Traffic"	* A	48 x 48	Orange	1 1/4	3/4	7 - Series C	7 - Series C	7 - Series C	7 - Series C		3
XW104-1	"Road Work Ahead"	* B	48 x 48	Orange	1 1/4	3/4	6 - Series C	6 - Series C	6 - Series C	6 - Series C		1 1/2
XW105-1-A	"Right Turn AHEAD"	* A	48 x 48	Orange	1 1/4	3/4	7 - Series C	7 - Series C	7 - Series C	7 - Series C		3
XW106-1-A	"Right Turn AHEAD"	* B	48 x 48	Orange	1 1/4	3/4	7 - Series C	7 - Series C	7 - Series C	7 - Series C		3
XW106-2-A	"Exit Closed"	* A	48 x 48	Orange	1 1/4	3/4	7 - Series C	7 - Series C	7 - Series C	7 - Series C		3
XW108-1	"Exit Open"	* A	48 x 48	Orange	1 1/4	3/4	7 - Series C	7 - Series C	7 - Series C	7 - Series C		3
XW108-1-A	"Utility Work Ahead"	* B	48 x 48	Orange	1 1/4	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D		2 1/4
XW109-1	"Exit (above black arrow)"	* B	48 x 48	Orange	1 1/4	3/4	6 - Series C	6 - Series C	6 - Series C	6 - Series C		3
R2-1	"Speed Limit"	* A	24 x 30	White	1/2	3/8	4 - Series E	4 - Series E	4 - Series E	4 - Series E		1 1/2
R2-2-A (R or L)	"Speed Limit"	* B	48 x 60	White	1/2	3/8	8 - Series E	8 - Series E	8 - Series E	8 - Series E		3
R2-2-C (R or L)	"No" turn symbol	* A	30 x 30	White	3/4	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D		2
R4-1	"Do Not Pass"	* A	48 x 48	White	1 1/4	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D		3
R5-1-A	"Do Not Enter (inside symbol)"	* B	48 x 60	White	1 1/4	3/4	10 - Series D	10 - Series D	10 - Series D	10 - Series D		1 7/8
R5-1-B	"Do Not Enter (inside symbol)"	* A	36 x 36	Red	Radius 17 1/2	3/4	5 - Series D	5 - Series D	5 - Series D	5 - Series D		3
R6-1 (R or L)	"One Way" (inside white arrow)	* B	48 x 48	Red	Radius 23 1/2	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D		2 1/4
R6-2-A (R or L)	"One Way" (inside white arrow)	* A	36 x 36	Black & White	---	---	4 - Series D	4 - Series D	4 - Series D	4 - Series D		3
R11-2	"Road Closed"	* A	24 x 30	White	1/2	3/8	6 - Series D	6 - Series D	6 - Series D	6 - Series D		1 1/2
R11-3	"Road Closed"	* B	48 x 30	White	3/4	3/8	8 - Series D	8 - Series D	8 - Series D	8 - Series D		1 1/2
R11-4	"Local Traffic Only"	* B	60 x 30	White	3/4	3/8	6 - Series C	6 - Series C	6 - Series C	6 - Series C		1 7/8
R12-1	"Road Closed To Thru Traffic"	* A	24 x 30	White	1/2	3/8	4 - Series D	4 - Series D	4 - Series D	4 - Series D		1 1/2
R12-1-A	"Weight Limit" Tons"	* B	36 x 48	White	3/4	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D		2 1/4
R14-1	"When Flashing - Plaque"	* A	48 x 20	White	1/2	3/8	5 - Series D	5 - Series D	5 - Series D	5 - Series D		1 1/2
R2-12	"End Work Site Speed Limit"	* A	24 x 36	White	1/2	3/4	4 - Series D	4 - Series D	4 - Series D	4 - Series D		1 1/2
R2-12-B	"End Work Site Speed Limit"	* B	36 x 34	White	1 1/4	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D		3

* Wood post permitted.

Add column for MUTCD sign code and rearrange sign order to regulatory, warning, and then guide signs.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL

SIGN DESIGN DETAILS

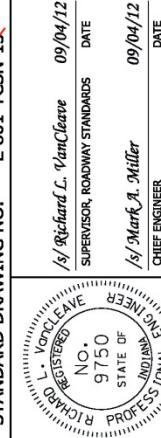
SEPTEMBER 2012

06

STANDARD DRAWING NO. E 801-TCSN-13

NOTES:

- See Standard Drawing E 801-TCSN-11 for General Notes.
- All dimensions are in inches.



/s/ Richard L. VanCleave

SUPERVISOR, ROADWAY STANDARDS

DATE

09/04/12

/s/ Mark A. Miller

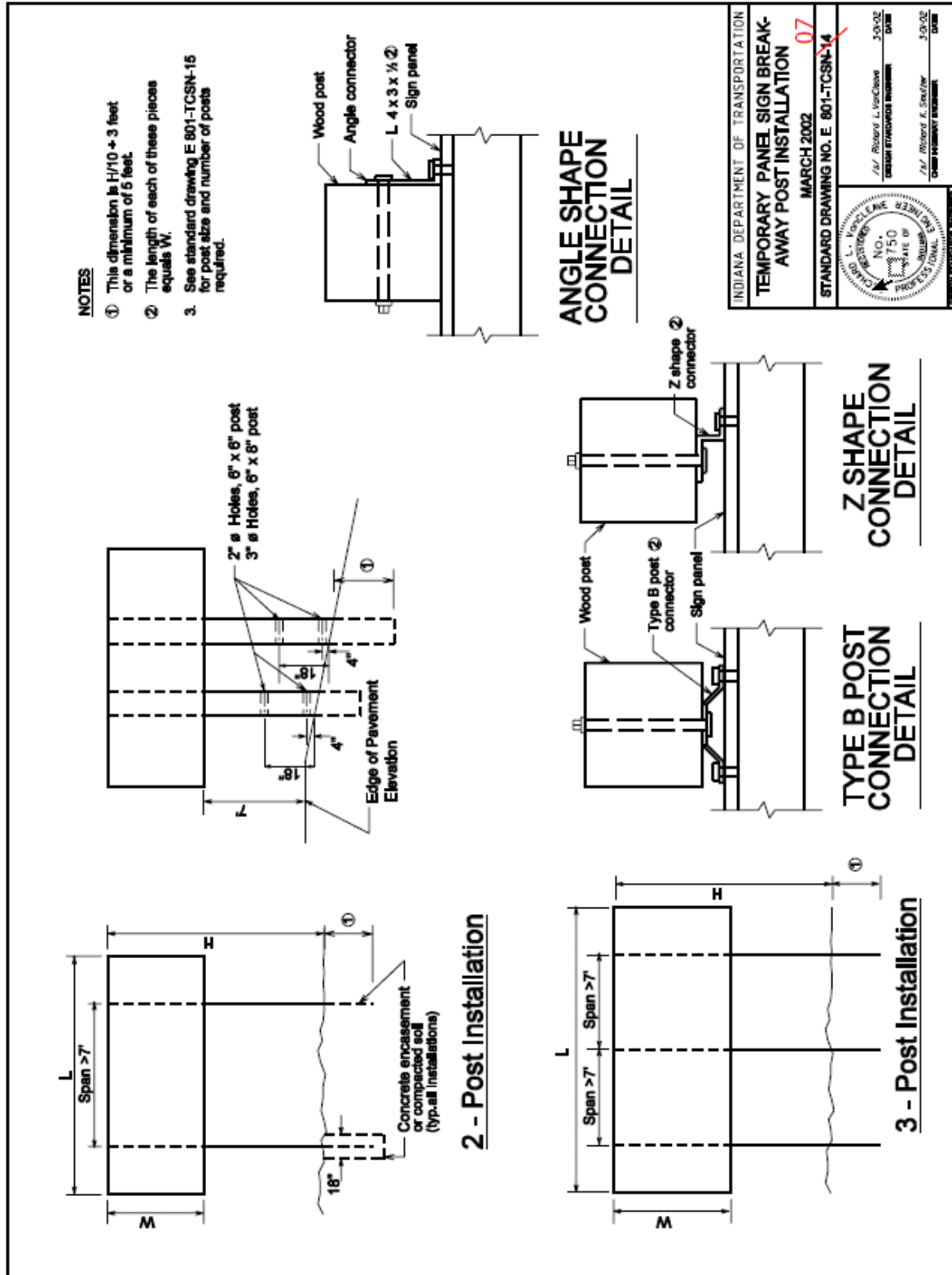
CHIEF ENGINEER

DATE

09/04/12

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

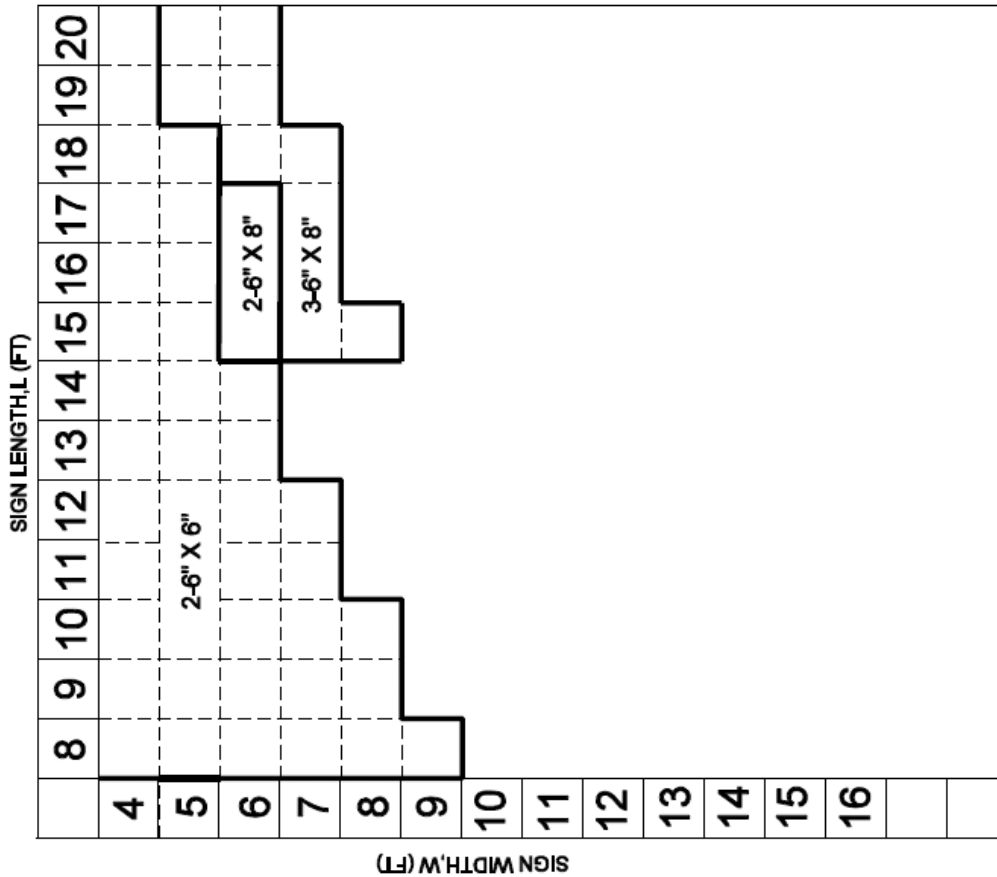
801-TCSN-14 TEMPORARY PANEL SIGN BREAKAWAY POST INSTALLATION (WITH MARKUPS)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-15 WOOD POST DESIGN FOR TEMPORARY PANEL SIGNS (WITH MARKUPS)

NOTES:
No more than one post can be located in a 7 foot wide path.



INDIANA DEPARTMENT OF TRANSPORTATION	
WOOD POST DESIGN FOR TEMPORARY PANEL SIGNS	
MARCH 2002 08	
STANDARD DRAWING NO. E 801-TCSN-15	
	/s/ Richard L. Voelckle DESIGN ENGINEER DATE 3-01-02
	/s/ Richard K. Smutzer CHIEF HIGHWAY ENGINEER DATE 3-01-02

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-01 CONSTRUCTION SIGNS GENERAL NOTES (PROPOSED DRAFT, SEE RPD
 801-R-622d, BEGIN pg 80)

INDEX	
SHEET NO.	SUBJECT
1	Index
2	Traffic Control Signs
3	Traffic Control Signs
4	Traffic Control Sign Design Details
5	Traffic Control Sign Design Details
6	Traffic Control Sign Design Details
7	Temporary Panel Sign Breakaway Post Installation
8	Wood Post Design For Temporary Panel Signs

GENERAL NOTES

1. The minimum vertical and horizontal clearances for construction signs shall be as on Standard Drawing E 801-TCDV-05.
2. The minimum horizontal clearance for construction signs on curbed roadway sections shall be 2'-0" from the face of the curb to the near edge of the sign.
3. The minimum depth for wood or steel posts shall be 4 ft.
4. See Standard Drawing E 801-TCDV-08 for U-Channel Steel Post Splice Detail.
- ⑤ This sign shall be removed, covered, or turned to face away from the roadway during non-working hours.
- ⑥ This sign may be ordered to read "500 FT", "1000 FT", or "1500 FT" in place of the word "Ahead". Such signs may be used in place of, or in conjunction with, the indicated sign.

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION SIGNS GENERAL NOTES SEPTEMBER 2015	
STANDARD DRAWING NO. E 801-TCSN-01	
DESIGN STANDARDS ENGINEER	DATE
CHIEF ENGINEER	DATE

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-02 TRAFFIC CONTROL SIGNS SHEET 1 (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

NOTES: 1. See Standard Drawing E 801-TCSN-01 for general notes.		INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SIGNS (Sheet 1 of 2) SEPTEMBER 2015 DRAFT STANDARD DRAWING NO. E 801-TCSN-02	
DESIGN STANDARDS ENGINEER		DESIGN STANDARDS ENGINEER DATE	
DESIGN STANDARDS ENGINEER		CHIEF HIGHWAY ENGINEER DATE	

⑥ XW20-1 XW20-1-A	⑤ XW21-4a XW21-4b-A	⑤ XW21-4b XW21-4b-A	⑤ XW2-4b XW2-4b-A XW2-6b-B
⑥ XW20-1a	⑥ XW2-6a XW2-6a-A XW2-6a-B	⑥ XW2-6 XW2-6-A	⑥ XW3-4S
⑥ XW103-1	⑥ XG20-2		

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-03 TRAFFIC CONTROL SIGNS SHEET 2 (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

NOTES: 1. See Standard Drawing E 801-TCSN-01 for general notes.	RIGHT LANE EXIT ONLY XW105-1-A	WIDE LOAD RESTRICTION 2 MILES XW20-YWR(A)	WIDE LOAD OVER 11 FT MUST EXIT XW20-YWR(B)	NO LOADS OVER 11 FT WIDE XW20-YWL(C)	EXIT XW109-1	State St DETOUR XW4-9d	State St NORTH DETOUR XW4-9e	EXIT CLOSED XW106-1-A	EXIT OPEN XW106-2-A	<table border="1"> <tr> <td colspan="2" data-bbox="966 346 998 808">INDIANA DEPARTMENT OF TRANSPORTATION</td></tr> <tr> <td data-bbox="998 346 1047 808">TRAFFIC CONTROL SIGNS (Sheet 2 of 2)</td><td data-bbox="1047 346 1112 808">SEPTEMBER 2015 DRAFT</td></tr> <tr> <td data-bbox="1112 346 1144 808">STANDARD DRAWING NO. E 801-TCSN-03</td><td data-bbox="1144 346 1209 808"></td></tr> <tr> <td data-bbox="1209 346 1274 808">DESIGN STANDARDS ENGINEER</td><td data-bbox="1274 346 1323 808">DATE</td></tr> <tr> <td data-bbox="1274 346 1323 808">DESIGN STANDARDS ENGINEER</td><td data-bbox="1274 346 1323 808">DATE</td></tr> </table>	INDIANA DEPARTMENT OF TRANSPORTATION		TRAFFIC CONTROL SIGNS (Sheet 2 of 2)	SEPTEMBER 2015 DRAFT	STANDARD DRAWING NO. E 801-TCSN-03		DESIGN STANDARDS ENGINEER	DATE	DESIGN STANDARDS ENGINEER	DATE
	INDIANA DEPARTMENT OF TRANSPORTATION																			
	TRAFFIC CONTROL SIGNS (Sheet 2 of 2)	SEPTEMBER 2015 DRAFT																		
	STANDARD DRAWING NO. E 801-TCSN-03																			
	DESIGN STANDARDS ENGINEER	DATE																		
DESIGN STANDARDS ENGINEER	DATE																			

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-04 TRAFFIC CONTROL SIGN DESIGN DETAILS, SHEET 1 (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

SIGN NUMBER	INMUT CODE	SIGN MESSAGE	POST DESIGN WOOD STEEL	SIGN SIZE	SIGN COLOR BACKGROUND COPY	BORDER WIDTH	LETTER HEIGHT SERIES - LINE 1	LETTER HEIGHT SERIES - LINE 2	LETTER HEIGHT SERIES - LINE 3	WORD OR LINE ①	PCT. ②	CORNER RADIUS	NO. OF POSTS 1 2
R2-1	R2-1	Speed Limit	* A	24 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R2-1-B	R2-1	Speed Limit	* B	48 X 60	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R2-2-A (R or L)	R2-2	(Movement Prohibition)	* A	30 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R2-2-C (R or L)	R2-2	(Movement Prohibition)	* B	48 X 48	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R4-1	R4-1	Do Not Pass	* A	24 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R4-1-B	R4-1	Do Not Pass	* B	48 X 60	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R5-1-A	R5-1	Do Not Enter	* A	36 X 36	Red	White		See Standard Highway Signs Book for Fabrication Details					X
R5-1-B	R5-1	Do Not Enter	* B	48 X 48	Red	White		See Standard Highway Signs Book for Fabrication Details					X
R6-1 (R or L)	R6-1	One Way (Inside White Arrow)	* A	36 X 36	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R6-2-A (R or L)	R6-2	One Way (Above White Arrow)	* A	24 X 30	Black & White	Black		See Standard Highway Signs Book for Fabrication Details					X
R11-2	R11-2	Road Closed	* B	48 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R11-3	R11-3	Road Closed - Local Traffic Only	* B	60 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R11-4	R11-4	Road Closed - Thru Traffic	* B	60 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R17-1	R17-1	Weight Limit - Trns	* A	24 X 30	White	Black		See Standard Highway Signs Book for Fabrication Details					X
R12-1 A	R12-1	Weight Limit - Trns	* B	36 X 48	White	Black		See Standard Highway Signs Book for Fabrication Details					X
S4-4	S4-4	When Flashing Plaque	* -	48 X 20	White	Black		See Standard Highway Signs Book for Fabrication Details					-
XW1-1-A (R or L)	W1-1	(Turn Symbol)	* A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-1-B (R or L)	W1-1	(Turn Symbol)	* B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-2-A (R or L)	W1-2	(Curve Symbol)	* A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-2-B (R or L)	W1-2	(Curve Symbol)	* B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-3-A (R or L)	W1-3	(Reverse Turn Symbol)	* A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-3-B (R or L)	W1-3	(Reverse Turn Symbol)	* B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-4-A (R or L)	W1-4	(Reverse Curve Symbol)	* A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-4-B (R or L)	W1-4	(Reverse Curve Symbol)	* B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-6	W1-6	(Single Headed Arrow)	* B	48 X 24	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW1-6-A	W1-6	(Single Headed Arrow)	* B	60 X 30	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW2-6	W2-6	Added Worksite Penalties	* B	60 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C	2 1/4		X
XW2-6-A	W2-6	Added Worksite Penalties	* B	78 X 42	Orange	Black	7/8	5/8	5 - Series C	5 - Series C	2 1/4		X
XW2-6-B	W2-6	Added Worksite Penalties	* A	30 X 30	Orange	Black	3/4	1/2	4 - Series C	5 - Series C	1 7/8	X	X
XW2-6a	W2-6a	Speeding Max \$1000	* A	36 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C	2 1/4		X
XW2-6b	W2-6b	Speeding Max \$1000	* B	48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series C	3		X
XW2-6b-8	W2-6b-8	Recessed Driving Max 8 Yrs	* A	30 X 30	Orange	Black	3/4	1/2	4 - Series C	4 - Series C	1 7/8	X	X
XW2-6b-A	W2-6b-A	Recessed Driving Max 8 Yrs	* A	36 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C	2 1/4		X
XW2-6b-B	W2-6b-B	Recessed Driving Max 8 Yrs	* B	48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series C	3		X

*Wood post permitted.

NOTES:

- ① Spacing between letters of this word or line shall be reduced by this percentage as shown in the FHWA document, Standard Highway Signs.
2. See Standard Drawing E 801-TCSN-01 for additional general notes.
3. All dimensions are in inches.

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-05 TRAFFIC CONTROL SIGN DESIGN DETAILS, SHEET 2 (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

SIGN NUMBER	INVT CODE	SIGN MESSAGE	POST DESIGN	SIGN SIZE	SIGN COLOR	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES - LINE 1	LETTER HEIGHT SERIES - LINE 2	LETTER HEIGHT LINE 3	WORD OR LINE ①	PCT. CORNER MODUS	NO. OF POSTS
			4 X 4 STEEL		BACKGROUND COPY								1 2
XW4-2 (R or L)	W4-2	(Lane Ends Merge Symbol)	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW4-2-A (R or L)	W4-2	(Lane Ends Merge Symbol)	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW6-2A-B	W6-2	(Divided Highway Ends Symbol)	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW3-5-A	W3-5	(Divided Highway Ends Symbol)	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW3-5-B	W3-5	(Reduced Speed Limit Ahead)	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW3-5A-A	W3-5	(Reduced Speed Limit Ahead)	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW3-5a-B	W3-5	(Reduced Speed Limit Ahead)	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW6-3-B	W6-3	(Two Way Traffic Symbol)	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-1-A	W8-1	Bump	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-1-B	W8-1	Bump	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-2-A	W8-2	Dip	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-2-B	W8-2	Dip	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-3-A	W8-3	Pavement Ends	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-4-A	W8-4	Soft Shoulder	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-4-B	W8-4	Soft Shoulder	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-6-A	W8-6	Truck Crossing	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW8-6-B	W8-6	Truck Crossing	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW9-1-A (R or L)	W9-1	Lane Ends	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW9-1-B (R or L)	W9-1	Lane Ends	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW9-2-B (R or L)	W9-2	Lane Ends Merge	A	36 X 36	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW12-1-C	W12-1	Double Arrow	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW13-1-A	W13-1	Advisory Speed Plaque	A	36 X 36	Orange	Black	1 1/4	7 - Series C	7 - Series C	Construction 25	3		X
XW20-1	W20-1	Road Construction Ahead	B	48 X 48	Orange	Black	1 1/2	8 - Series C	8 - Series C	Construction 25	3		X
XW20-1-A	W20-1	Road Construction Ahead	A	60 X 60	Orange	Black	1 1/4	8 - Series C	8 - Series C	6 - Series C	3		X
XW20-1a	W20-1	Road Repairs Next - Miles	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW20-2	W20-2	Detour Ahead	A	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW20-3	W20-3	Road Closed Ahead	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW20-4	W20-4	One Lane Road Ahead	A	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW20-5 (R, C, or	W20-5	Lane Closed Ahead	B	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW20-7-A	W20-7	Flagger Symbol	A	48 X 48	Orange	Black		See Standard Highway Signs Book for Fabrication Details					X
XW20-7A	W20-7	Flagger Symbol	B	48 X 48	Orange	Black	1 1/4	6 - Series D	6 - Series D	6 - Series D	3		X
XW20-WR(A)	-	Wide Load Restriction - Miles	A	48 X 48	Orange	Black	1 1/4	6 - Series C	6 - Series C	6 - Series C	3		X
XW20-WR(B)	-	Wide Load Over - ft Must Exit	B	48 X 48	Orange	Black	1 1/4	6 - Series C	6 - Series C	6 - Series C	3		X
XW20-WR(C)	-	No Loads Over - ft Wide	A	48 X 48	Orange	Black	1 1/4	6 - Series D	6 - Series D	6 - Series D	3		X

*Wood post permitted.

NOTES:

- Spacing between letters of this word or line shall be reduced by this percentage as shown in the FHWA document, Standard Highway Signs.
- See Standard Drawing E 801-TCSN-01 for additional general notes.
- All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS
(Sheet 2 of 3)

SEPTEMBER 2015

STANDARD DRAWING NO. E 801-TCSN-05

DESIGN STANDARDS ENGINEER

DATE

CHIEF ENGINEER

DATE

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-06 TRAFFIC CONTROL SIGN DESIGN DETAILS, SHEET 3 (PROPOSED
DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

SIGN NUMBER	IMVUTCD CODE	SIGN MESSAGE	POST DESIGN 4 X 4 WOOD	SIGN SIZE	SIGN COLOR BACKGROUND	COPY	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES - LINE 1	LETTER HEIGHT SERIES - LINE 2	LETTER HEIGHT SERIES - LINE 3	WORD OR LINE	PCT. ⊙	CORNER RADIUS	NO. OF POSTS 1	2
XW21-1-A	W21-1	Workers Symbol	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details						X	
XW21-2	W21-2	Fresh Oil	* A	30 X 30	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-2-A	W21-2	Fresh Oil	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-3-A	W21-3	Road Machinery Ahead	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
W25-1	W25-1	Road Work Ahead	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-5-A	W21-5	Shoulder Work	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-6-A	W21-6	Survey Crew	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-7	W21-7	Utility Work Ahead	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-7-A	W21-7	Utility Work Ahead	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-8-A	W21-8	Moving Crews Ahead	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-8-A	W21-8	Moving Crews Ahead	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-8-B	W21-8	Moving Crews Next	* A	36 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW21-8-B	W21-8	Moving Crews Next	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW103-1	-	Watch for Stopped Traffic	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW104-1	-	Overhead Sign Installation	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XG20-1	G20-1	Road Construction Next	* B	60 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XG20-2	G20-2	End Construction	* B	60 X 24	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
G20-2	G20-2	End Road Work	* B	48 X 18	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XG20-4	G20-4	Pilot Car Follow Me	-	36 X 18	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XG20-5	G20-5	(Route Number or Lane Closed On or After _____)	* B	60 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XG20-5P	XG20-5P	Worksite Plaque	-	48 X 16	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW20-6	W20-6	Lane Restrictions On or After _____	* B	60 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW20-6A	W20-6A	Lane Restrictions On or After _____	* B	72 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XM4-9 (B or L)	M4-9	Detour (Above Black Arrow)	* A	30 X 24	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XM4-9-B (R or L)	M4-9	Detour (Above Black Arrow)	* B	48 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XM4-9B	-	Detour (Above Black Arrow)	* B	48 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XM4-9B	-	Detour (Above Black Arrow)	* B	48 X 36	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XM4-10 (B or L)	M4-10	Detour (Inside Orange Arrow)	* B	48 X 18	Black & Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW105-1-A	W105-1-A	Right Lane Exit Open	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW106-1-A	W106-1-A	Exit Closed	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW106-2-A	W106-2-A	Exit Open	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X
XW107-1	W107-1	Exit (Above Black Arrow)	* B	48 X 48	Orange	Black			See Standard Highway Sign Book for Fabrication Details							X

*Wood post permitted.

NOTES:

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

2. See Standard Drawing E 801-TCSN-01 for additional general notes.

3. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS
(Sheet 3 of 3)

SEPTEMBER 2015

STANDARD DRAWING NO. E 801-TCSN-06

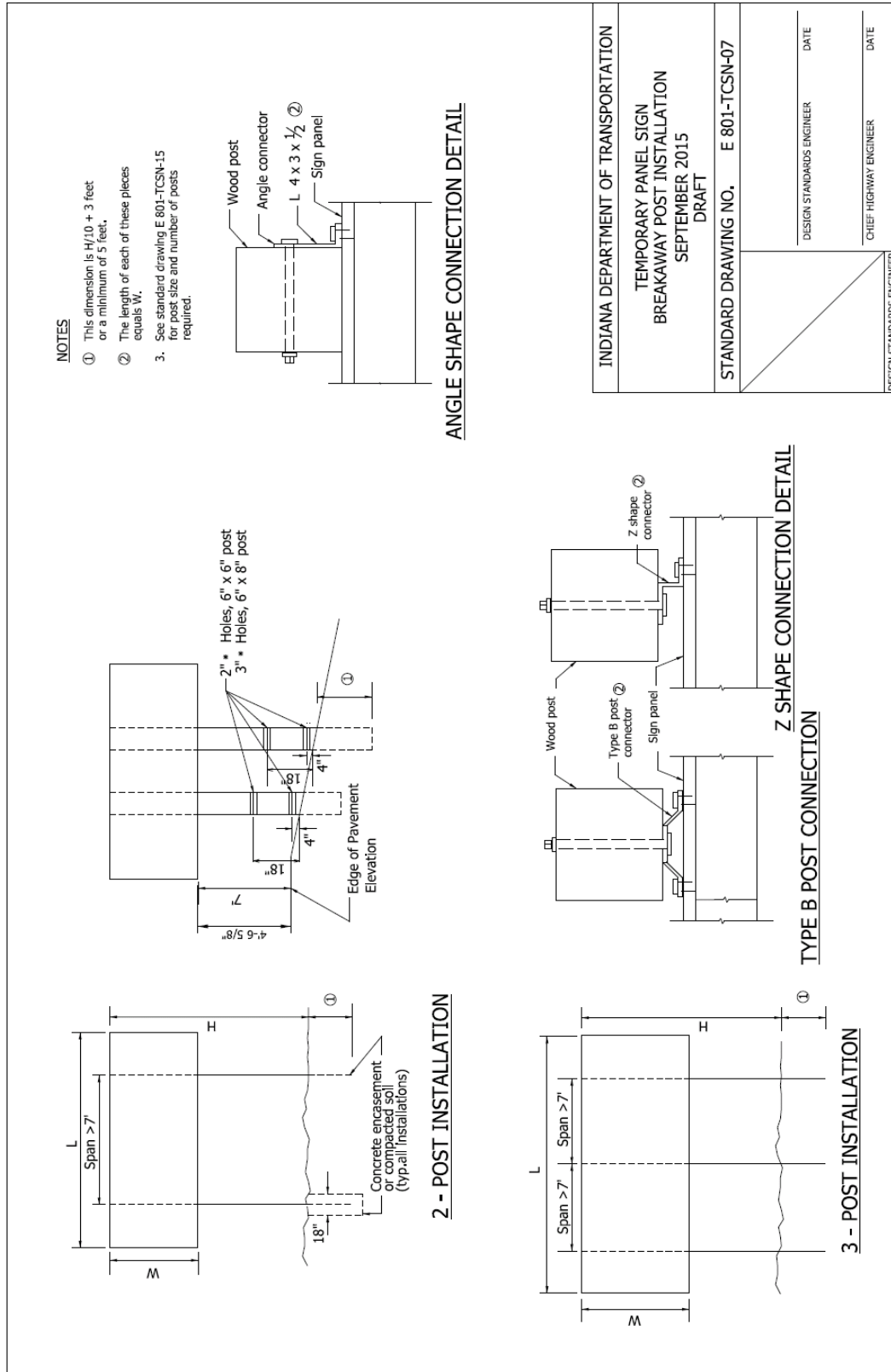
DESIGN STANDARDS ENGINEER

DATE

CHIEF ENGINEER</

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-07 TEMPORARY PANEL SIGN BREAKAWAY POST INSTALLATION (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

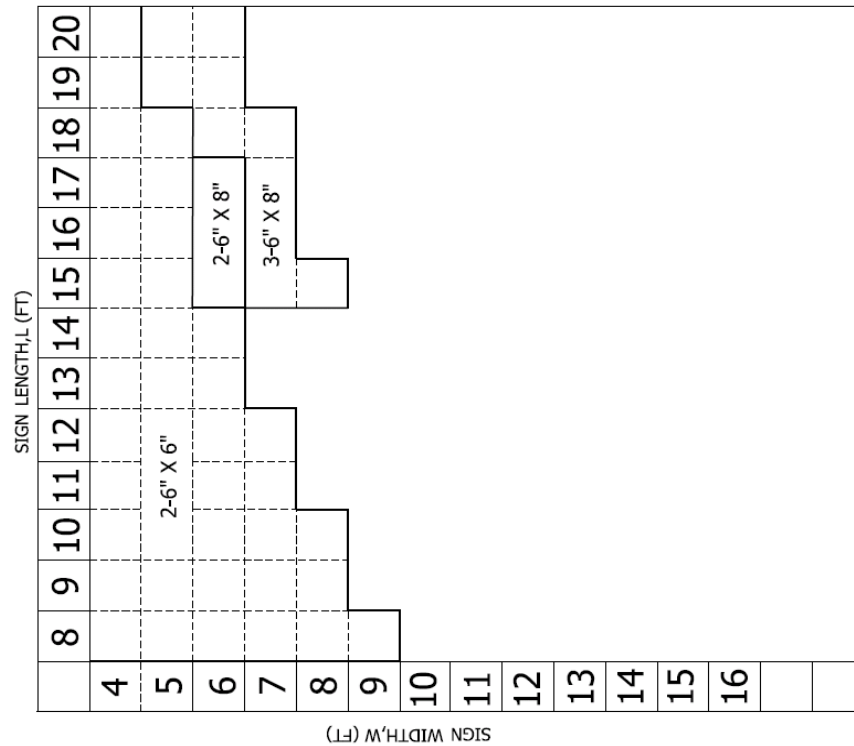


REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCSN-08 WOOD POST DESIGN FOR TEMPORARY PANEL SIGN (PROPOSED DRAFT,
 SEE RPD 801-R-622d, BEGIN pg 80)

NOTES:

1. No more than one post can be located in a 7 foot wide path.

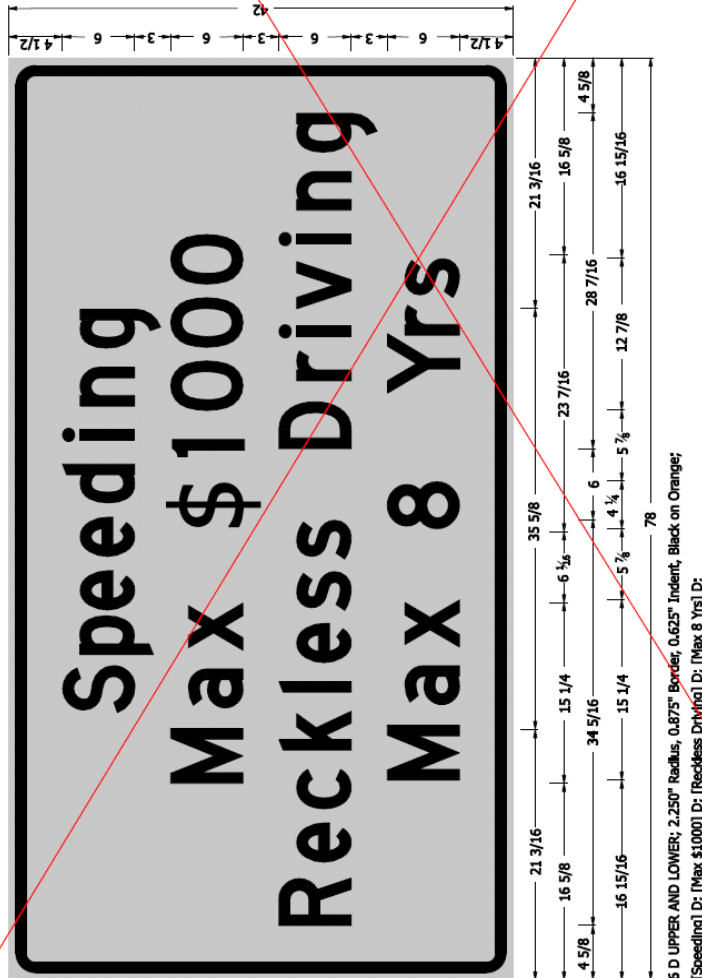


INDIANA DEPARTMENT OF TRANSPORTATION
WOOD POST DESIGN FOR TEMPORARY PANEL SIGNS SEPTEMBER 2015
STANDARD DRAWING NO. E 801-TCSN-08
DESIGN STANDARDS ENGINEER DATE
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

RECURRING PLAN DETAILS 801-R-542d WORKSITE ADDED PENALTY SIGN 78X42
(WITH MARKUPS)

Delete RPD and show sign on 801-TCSN-01 with fabrication details on 801-TCSN-04



6 D UPPER AND LOWER; 2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
[Speeding] D; [Max \$1000] D; [Reckless Driving] D; [Max 8 Yrs] D;

-XG 20-7
XW2-6-A

9-03-07

INDIANA DEPARTMENT OF TRANSPORTATION

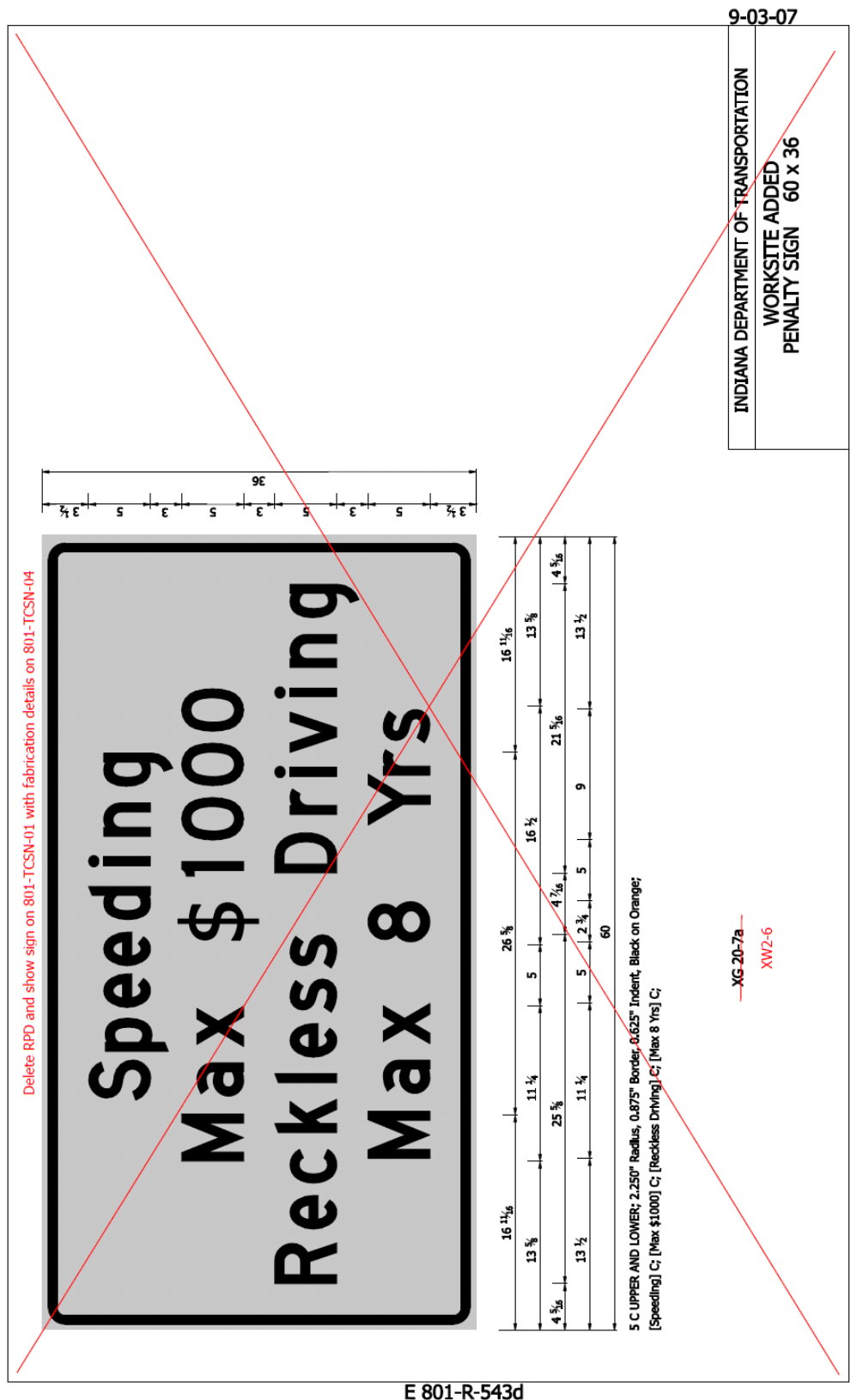
WORKSITE ADDED
PENALTY SIGN 78 x 42

E 801-R-542d

Date: 5/21/15

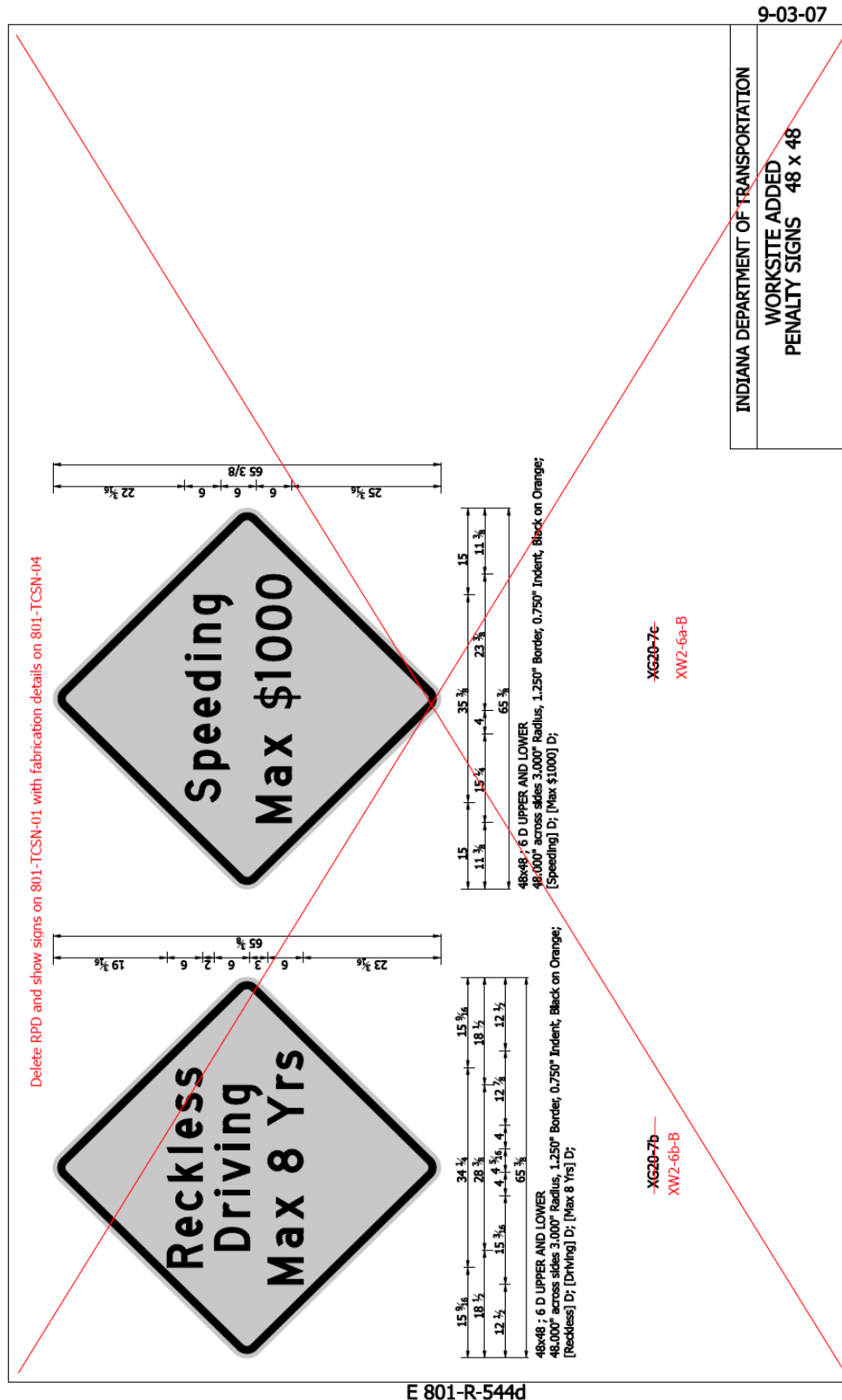
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

RECURRING PLAN DETAILS 801-R-543d WORKSITE ADDED PENALTY SIGN 60X36
(WITH MARKUPS)



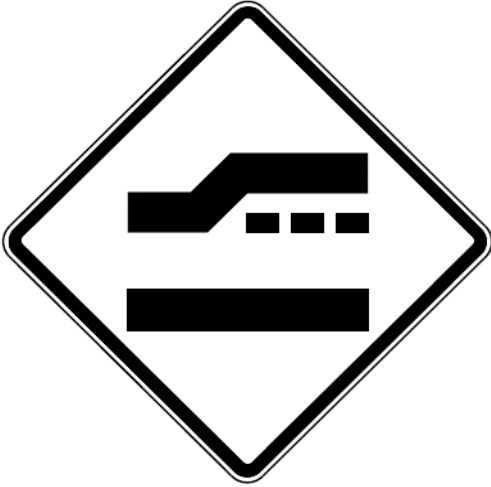
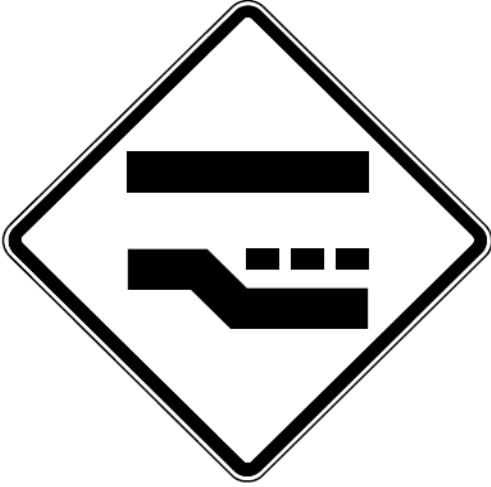
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

RECURRING PLAN DETAILS 801-R-544d WORKSITE ADDED PENALTY SIGN 48X48
(WITH MARKUPS)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

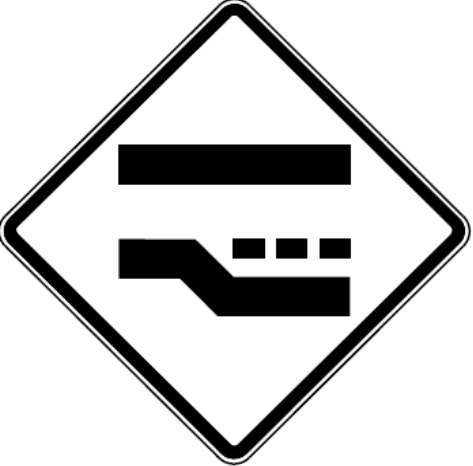
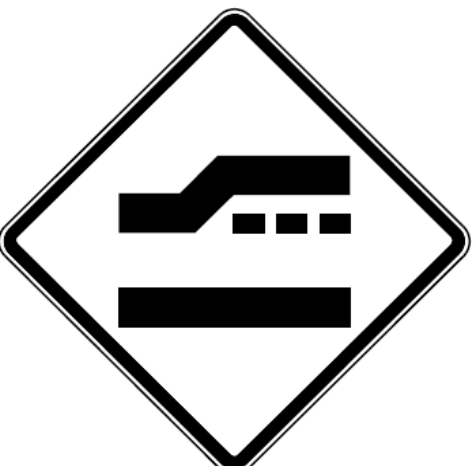
RECURRING PLAN DETAILS 801-T-203d LANE ENDS WARNING SIGNS (WITH MARKUPS)

Eff. for Lettings On or After 05-01-14	
NOTES: 1. The XW4-2 series signs depicted in the following Standard Drawings shall be superseded by the versions shown on this sheet and are further detailed in the Standard Highway Signs and Markings Book, 2004 edition, 801-TCCO-01 801-TCFO-03 801-TCLC-01 801-TCLC-02 801-TCLC-03 801-TCLC-04 801-TCLC-05 801-TCLC-06 801-TCLC-09 801-TCLC-10 801-TCLC-11 801-TCLC-13 801-TCLC-15 801-TCLC-16 ~~801-TCLC-05~~ 801-TCTC-06 801-TCTC-09 801-TCTC-10 The color and support post details provided on Standard Drawing E 801-TCSN-~~15~~ 05 shall apply.  XW4-2(R) XW4-2-A(R)  XW4-2(L) XW4-2-A(L)	INDIANA DEPARTMENT OF TRANSPORTATION LANE ENDS WARNING SIGNS

E 801-T-203d 1 of 1

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

RECURRING PLAN DETAILS 801-T-203d LANE ENDS WARNING SIGNS (REVISED DRAFT)

Eff, for Lettings On or After 08-01-15	
NOTES: 1. The XW4-2 series signs depicted in the following Standard Drawings shall be superseded by the versions shown on this sheet and are further detailed in the Standard Highway Signs and Markings Book, 2004 edition. 801-TCCO-01 801-TFO-03 801-TLC-01 801-TLC-02 801-TLC-03 801-TLC-04 801-TLC-05 801-TLC-06 801-TLC-09 801-TLC-10 801-TLC-11 801-TLC-13 801-TLC-15 801-TLC-16 801-TTC-06 801-TTC-09 801-TTC-10 The color and support post details provided on Recurring Plan Detail 801-R-622d shall apply.  XW4-2(L) XW4-2-A(L)  XW4-2(R) XW4-2-A(R)	INDIANA DEPARTMENT OF TRANSPORTATION LANE ENDS WARNING SIGNS
E 801-T-203d 1 of 1	

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
 BACKUP 01. MUTCD EXCERPT. 2009 EDITION

Table 6F-1. Temporary Traffic Control Zone Sign and Plaque Sizes (Sheet 1 of

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Stop	R1-1	6F.06	30 x 30*	—	—
Stop (on Stop/Slow Paddle)	R1-1	6E.03	18 x 18	—	—
Yield	R1-2	6F.06	36 x 36 x 36*	—	30 x 30 x 30
To Oncoming Traffic (plaque)	R1-2aP	6F.06	36 x 30	48 x 36	24 x 18
Wait on Stop	R1-7	6E.05	24 x 30	24 x 30	—
Go on Slow	R1-8	6E.05	24 x 30	24 x 30	—
Speed Limit	R2-1	6F.12	24 x 30*	36 x 48	—
Fines Higher (plaque)	R2-6P	6F.12	24 x 18	36 x 24	—
Fines Double (plaque)	R2-6aP	6F.12	24 x 18	36 x 24	—
\$XX Fine (plaque)	R2-6bP	6F.12	24 x 18	36 x 24	—
Begin Higher Fines Zone	R2-10	6F.12	24 x 30	36 x 48	—
End Higher Fines Zone	R2-11	6F.12	24 x 30	36 x 48	—
End Work Zone Speed Limit	R2-12	6F.12	24 x 36	36 x 54	—
Movement Prohibition	R3-1,2,3,4,18,27	6F.06	24 x 24*	36 x 36	—
Mandatory Movement (1 lane)	R3-5	6F.06	30 x 36	—	—
Optional Movement (1 lane)	R3-6	6F.06	30 x 36	—	—
Mandatory Movement (text)	R3-7	6F.06	30 x 30*	—	—
Advance Intersection Lane Control	R3-8	6F.06	Varies x 30	—	—
Do Not Pass	R4-1	6F.06	24 x 30	36 x 48	—
Pass With Care	R4-2	6F.06	24 x 30	36 x 48	—
Keep Right	R4-7	6F.06	24 x 30	36 x 48	—
Narrow Keep Right	R4-7c	6F.06	18 x 30	—	—
Stay in Lane	R4-9	6F.11	24 x 30	36 x 48	—
Do Not Enter	R5-1	6F.06	30 x 30*	36 x 36	—
Wrong Way	R5-1a	6F.06	36 x 24*	42 x 30	—
One Way	R6-1	6F.06	36 x 12*	54 x 18	—
One Way	R6-2	6F.06	24 x 30*	36 x 48	—
No Parking (symbol)	R8-3	6F.06	24 x 24	36 x 36	—
Pedestrian Crosswalk	R9-8	6F.13	36 x 18	—	—
Sidewalk Closed	R9-9	6F.14	24 x 12	—	—
Sidewalk Closed, Use Other Side	R9-10	6F.14	24 x 12	—	—
Sidewalk Closed Ahead, Cross Here	R9-11	6F.14	24 x 18	—	—
Sidewalk Closed, Cross Here	R9-11a	6F.14	24 x 12	—	—
Road Closed	R11-2	6F.08	48 x 30	—	—
Road Closed - Local Traffic Only	R11-3a,3b,4	6F.09	60 x 30	—	—
Weight Limit	R12-1,2	6F.10	24 x 30	36 x 48	—
Weight Limit (with symbols)	R12-5	6F.10	24 x 36	36 x 48	—
Turn and Curve Signs	W1-1,2,3,4	6F.16	36 x 36	48 x 48	30 x 30
Reverse Curve (2 or more lanes)	W1-4b,4c	6F.48	36 x 36	48 x 48	30 x 30
One-Direction Large Arrow	W1-6	6F.16	48 x 24	60 x 30	—
Chevron	W1-8	6F.16	18 x 24	30 x 36	—
Stop Ahead	W3-1	6F.16	36 x 36	48 x 48	30 x 30
Yield Ahead	W3-2	6F.16	36 x 36	48 x 48	30 x 30
Signal Ahead	W3-3	6F.16	36 x 36	48 x 48	30 x 30
Be Prepared to Stop	W3-4	6F.16	36 x 36	48 x 48	30 x 30
Reduced Speed Limit Ahead	W3-5	6F.16	36 x 36	48 x 48	30 x 30

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
BACKUP 01. MUTCD EXCERPT. 2009 EDITION

Table 6F-1. Temporary Traffic Control Zone Sign and Plaque Sizes (Sheet 2 of :

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
XX MPH Speed Zone Ahead	W3-5a	6F.16	36 x 36	48 x 48	30 x 30
Merging Traffic	W4-1,5	6F.16	36 x 36	48 x 48	36 x 36
Lane Ends	W4-2	6F.24	36 x 36	48 x 48	30 x 30
Added Lane	W4-3,6	6F.16	36 x 36	48 x 48	30 x 30
No Merge Area (plaque)	W4-5P	6F.16	18 x 24	24 x 30	—
Road Narrows	W5-1	6F.16	36 x 36	48 x 48	30 x 30
Narrow Bridge	W5-2	6F.16	36 x 36	48 x 48	30 x 30
One Lane Bridge	W5-3	6F.16	36 x 36	48 x 48	30 x 30
Ramp Narrows	W5-4	6F.26	36 x 36	48 x 48	30 x 30
Divided Highway	W6-1	6F.16	36 x 36	48 x 48	30 x 30
Divided Highway Ends	W6-2	6F.16	36 x 36	48 x 48	30 x 30
Two-Way Traffic	W6-3	6F.32	36 x 36	48 x 48	30 x 30
Two-Way Traffic	W6-4	6F.76	12 x 18	12 x 18	—
Hill (symbol)	W7-1	6F.16	36 x 36	48 x 48	30 x 30
Next XX Miles (plaque)	W7-3aP	6F.53	24 x 18	36 x 30	—
Bump	W8-1	6F.16	36 x 36	48 x 48	30 x 30
Dip	W8-2	6F.16	36 x 36	48 x 48	30 x 30
Pavement Ends	W8-3	6F.16	36 x 36	48 x 48	30 x 30
Soft Shoulder	W8-4	6F.44	36 x 36	48 x 48	30 x 30
Slippery When Wet	W8-5	6F.16	36 x 36	48 x 48	30 x 30
Truck Crossing	W8-6	6F.36	36 x 36	48 x 48	30 x 30
Loose Gravel	W8-7	6F.16	36 x 36	48 x 48	30 x 30
Rough Road	W8-8	6F.16	36 x 36	48 x 48	30 x 30
Low Shoulder	W8-9	6F.44	36 x 36	48 x 48	30 x 30
Uneven Lanes	W8-11	6F.45	36 x 36	48 x 48	30 x 30
No Center Line	W8-12	6F.47	36 x 36	48 x 48	30 x 30
Fallen Rocks	W8-14	6F.16	36 x 36	48 x 48	30 x 30
Grooved Pavement	W8-15	6F.16	36 x 36	48 x 48	30 x 30
Motorcycle (plaque)	W8-15P	6F.54	24 x 18	30 x 24	—
Shoulder Drop Off (symbol)	W8-17	6F.44	36 x 36	48 x 48	30 x 30
Shoulder Drop-Off (plaque)	W8-17P	6F.44	24 x 18	30 x 24	—
Road May Flood	W8-18	6F.16	36 x 36	48 x 48	24 x 24
No Shoulder	W8-23	6F.16	36 x 36	48 x 48	30 x 30
Steel Plate Ahead	W8-24	6F.46	36 x 36	48 x 48	30 x 30
Shoulder Ends	W8-25	6F.16	36 x 36	48 x 48	30 x 30
Lane Ends	W9-1,2	6F.16	36 x 36	48 x 48	30 x 30
Center Lane Closed Ahead	W9-3	6F.23	36 x 36	48 x 48	30 x 30
Grade Crossing Advance Warning	W10-1	6F.16	36 dia.	—	—
Truck	W11-10	6F.36	36 x 36	48 x 48	30 x 30
Double Arrow	W12-1	6F.16	30 x 30	—	—
Low Clearance	W12-2	6F.16	36 x 36	48 x 48	30 x 30
Advisory Speed (plaque)	W13-1P	6F.52	24 x 24	30 x 30	18 x 18
On Ramp (plaque)	W13-4P	6F.25	36 x 36	36 x 36	—
No Passing Zone (pennant)	W14-3	6F.16	48 x 48 x 36	64 x 64 x 48	40 x 40 x 30
XX Feet (plaque)	W16-2P	6F.16	24 x 18	30 x 24	—
Road Work (with distance)	W20-1	6F.18	36 x 36	48 x 48	30 x 30

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
BACKUP 01. MUTCD EXCERPT. 2009 EDITION

Table 6F-1. Temporary Traffic Control Zone Sign and Plaque Sizes (Sheet 3 of 3)

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Detour (with distance)	W20-2	6F.19	36 x 36	48 x 48	30 x 30
Road (Street) Closed (with distance)	W20-3	6F.20	36 x 36	48 x 48	30 x 30
One Lane Road (with distance)	W20-4	6F.21	36 x 36	48 x 48	30 x 30
Lane(s) Closed (with distance)	W20-5,5a	6F.22	36 x 36	48 x 48	30 x 30
Flagger (symbol)	W20-7	6F.31	36 x 36	48 x 48	30 x 30
Flagger	W20-7a	6F.31	36 x 36	48 x 48	30 x 30
Slow (on Stop/Slow Paddle)	W20-8	6E.03	18 x 18	—	—
Workers	W21-1,1a	6F.33	36 x 36	48 x 48	30 x 30
Fresh Oil (Tar)	W21-2	6F.34	36 x 36	48 x 48	30 x 30
Road Machinery Ahead	W21-3	6F.35	36 x 36	48 x 48	30 x 30
Slow Moving Vehicle	W21-4	6G.06	36 x 18	—	—
Shoulder Work	W21-5	6F.37	36 x 36	48 x 48	30 x 30
Shoulder Closed	W21-5a	6F.37	36 x 36	48 x 48	30 x 30
Shoulder Closed (with distance)	W21-5b	6F.37	36 x 36	48 x 48	30 x 30
Survey Crew	W21-6	6F.38	36 x 36	48 x 48	30 x 30
Utility Work Ahead	W21-7	6F.39	36 x 36	48 x 48	30 x 30
Mowing Ahead	W21-8	6G.06	36 x 36	48 x 48	30 x 30
Blasting Zone Ahead	W22-1	6F.41	36 x 36	48 x 48	30 x 30
Turn Off 2-Way Radio and Cell Phone	W22-2	6F.42	42 x 36	42 x 36	—
End Blasting Zone	W22-3	6F.43	42 x 36	42 x 36	36 x 30
Slow Traffic Ahead	W23-1	6F.27	48 x 24	48 x 24	—
New Traffic Pattern Ahead	W23-2	6F.30	36 x 36	48 x 48	30 x 30
Double Reverse Curve (1 lane)	W24-1	6F.49	36 x 36	48 x 48	30 x 30
Double Reverse Curve (2 lanes)	W24-1a	6F.49	36 x 36	48 x 48	30 x 30
Double Reverse Curve (3 lanes)	W24-1b	6F.49	36 x 36	48 x 48	30 x 30
All Lanes	W24-1cP	6F.49	24 x 24	30 x 30	—
Road Work Next XX Miles	G20-1	6F.56	36 x 18	48 x 24	—
End Road Work	G20-2	6F.57	36 x 18	48 x 24	—
Pilot Car Follow Me	G20-4	6F.58	36 x 18	—	—
Work Zone (plaque)	G20-5aP	6F.12	24 x 18	36 x 24	—
Exit Open	E5-2	6F.28	48 x 36	48 x 36	—
Exit Closed	E5-2a	6F.28	48 x 36	48 x 36	—
Exit Only	E5-3	6F.29	48 x 36	48 x 36	—
Detour	M4-8	6F.59	24 x 12	30 x 15	—
End Detour	M4-8a	6F.59	24 x 18	24 x 18	—
End	M4-8b	6F.59	24 x 12	24 x 12	—
Detour	M4-9	6F.59	30 x 24	48 x 36	—
Bike/Pedestrian Detour	M4-9a	6F.59	30 x 24	—	—
Pedestrian Detour	M4-9b	6F.59	30 x 24	—	—
Bike Detour	M4-9c	6F.59	30 x 24	—	—
Detour	M4-10	6F.59	48 x 18	—	—

* See Table 2B-1 for minimum size required for signs facing traffic on multi-lane conventional roads

Notes: 1. Larger signs may be used wherever necessary for greater legibility or emphasis
2. Dimensions are shown in inches and are shown as width x height

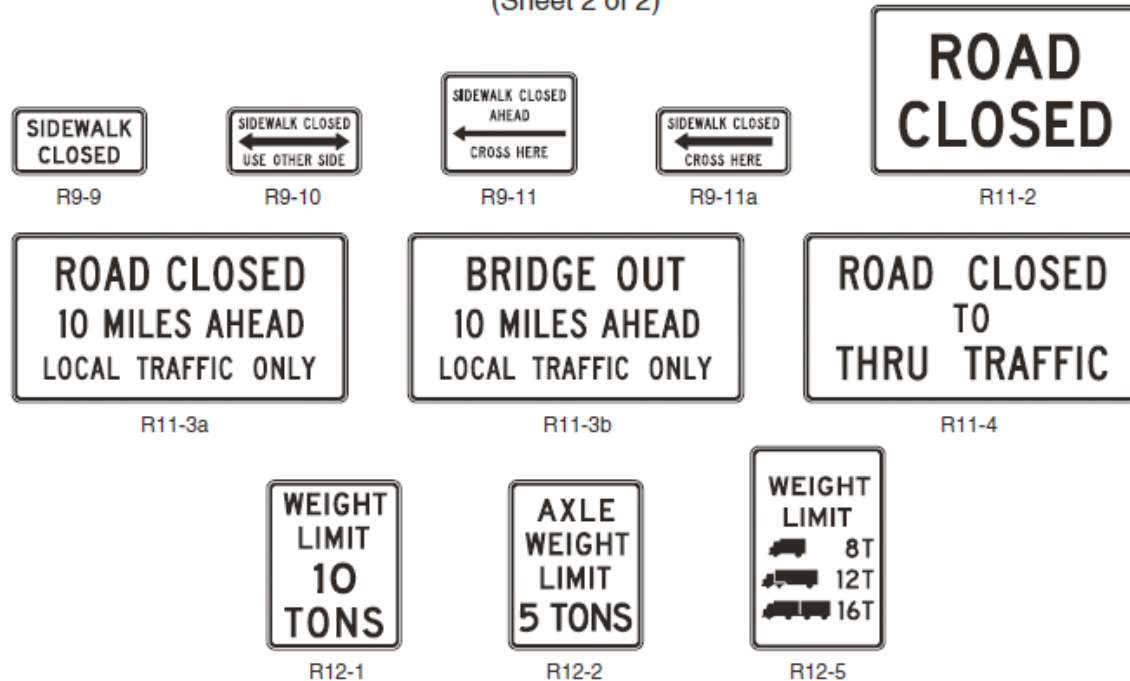
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Figure 6F-3. Regulatory Signs and Plaques in Temporary Traffic Control Zones
 (Sheet 1 of 2)



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Figure 6F-3. Regulatory Signs and Plaques in Temporary Traffic Control Zones
(Sheet 2 of 2)



Standard:

- 04 The ROAD (STREET) CLOSED sign shall not be used where road user flow is maintained through the TTC zone with a reduced number of lanes on the existing roadway or where the actual closure is some distance beyond the sign.

Section 6F.09 Local Traffic Only Signs (R11-3a, R11-4)

Guidance:

- 01 The Local Traffic Only signs (see Figure 6F-3) should be used where road user flow detours to avoid a closure some distance beyond the sign, but where local road users can use the roadway to the point of closure. These signs should be accompanied by appropriate warning and detour signing.
- 02 In rural applications, the Local Traffic Only sign should have the legend ROAD CLOSED XX MILES AHEAD, LOCAL TRAFFIC ONLY (R11-3a).

Option:

- 03 In urban areas, the legend ROAD (STREET) CLOSED TO THRU TRAFFIC (R11-4) or ROAD CLOSED, LOCAL TRAFFIC ONLY may be used.
- 04 In urban areas, a word message that includes the name of an intersecting street name or well-known destination may be substituted for the words XX MILES AHEAD on the R11-3a sign where applicable.
- 05 The words BRIDGE OUT (or BRIDGE CLOSED) may be substituted for the words ROAD (STREET) CLOSED on the R11-3a or R11-4 sign where applicable.

Section 6F.10 Weight Limit Signs (R12-1, R12-2, R12-5)

Standard:

- 01 A Weight Limit sign (see Figure 6F-3), which shows the gross weight or axle weight that is permitted on the roadway or bridge, shall be consistent with State or local regulations and shall not be installed without the approval of the authority having jurisdiction over the highway.
- 02 When weight restrictions are imposed because of the activity in a TTC zone, a marked detour shall be provided for vehicles weighing more than the posted limit.

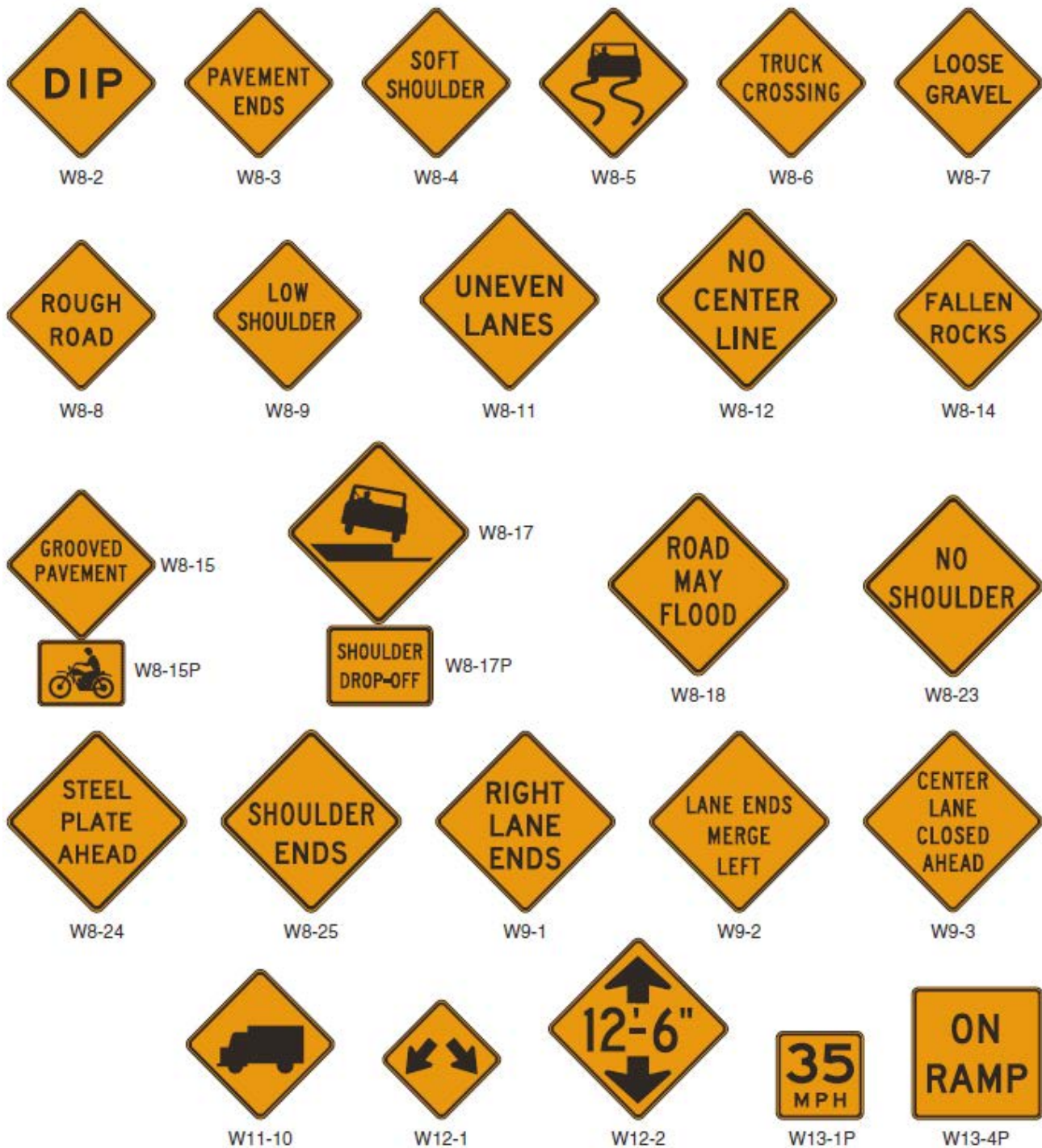
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Figure 6F-4. Warning Signs and Plaques in Temporary Traffic Control Zones
 (Sheet 1 of 3)



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Figure 6F-4. Warning Signs and Plaques in Temporary Traffic Control Zones
(Sheet 2 of 3)



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Figure 6F-4. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 3 of 3)



* An optional STREET WORK word message sign is shown in the "Standard Highway Signs and Markings" book.
 ** An optional STREET CLOSED word message sign is shown in the "Standard Highway Signs and Markings" book.
 *** An optional FLAGGER (W20-7a) word message sign is shown in the "Standard Highway Signs and Markings" book.
 **** An optional FRESH TAR word message sign is shown in the "Standard Highway Signs and Markings" book.

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Section 6F.23 CENTER LANE CLOSED AHEAD Sign (W9-3)

Guidance:

- 01 The **CENTER LANE CLOSED AHEAD (W9-3)** sign (see Figure 6F-4) should be used in advance of that point where work occupies the center lane(s) and approaching motor vehicle traffic is directed to the right or left of the work zone in the center lane.

Section 6F.24 Lane Ends Sign (W4-2)

Option:

- 01 The **Lane Ends (W4-2)** symbol sign (see Figure 6F-4) may be used to warn drivers of the reduction in the number of lanes for moving motor vehicle traffic in the direction of travel on a multi-lane roadway.

Section 6F.25 ON RAMP Plaque (W13-4P)

Guidance:

- 01 When work is being done on a ramp, but the ramp remains open, the **ON RAMP (W13-4P)** plaque (see Figure 6F-4) should be used to supplement the advance **ROAD WORK** sign.

Section 6F.26 RAMP NARROWS Sign (W5-4)

Guidance:

- 01 The **RAMP NARROWS (W5-4)** sign (see Figure 6F-4) should be used in advance of the point where work on a ramp reduces the normal width of the ramp along a part or all of the ramp.

Section 6F.27 SLOW TRAFFIC AHEAD Sign (W23-1)

Option:

- 01 The **SLOW TRAFFIC AHEAD (W23-1)** sign (see Figure 6F-4) may be used on a shadow vehicle, usually mounted on the rear of the most upstream shadow vehicle, along with other appropriate signs for mobile operations to warn of slow moving work vehicles. A **ROAD WORK (W20-1)** sign may also be used with the **SLOW TRAFFIC AHEAD** sign.

Section 6F.28 EXIT OPEN and EXIT CLOSED Signs (E5-2, E5-2a)

Option:

- 01 An **EXIT OPEN (E5-2)** or **EXIT CLOSED (E5-2a)** sign (see Figure 6F-5) may be used to supplement other warning signs where work is being conducted in the vicinity of an exit ramp and where the exit maneuver for vehicular traffic using the ramp is different from the normal condition.

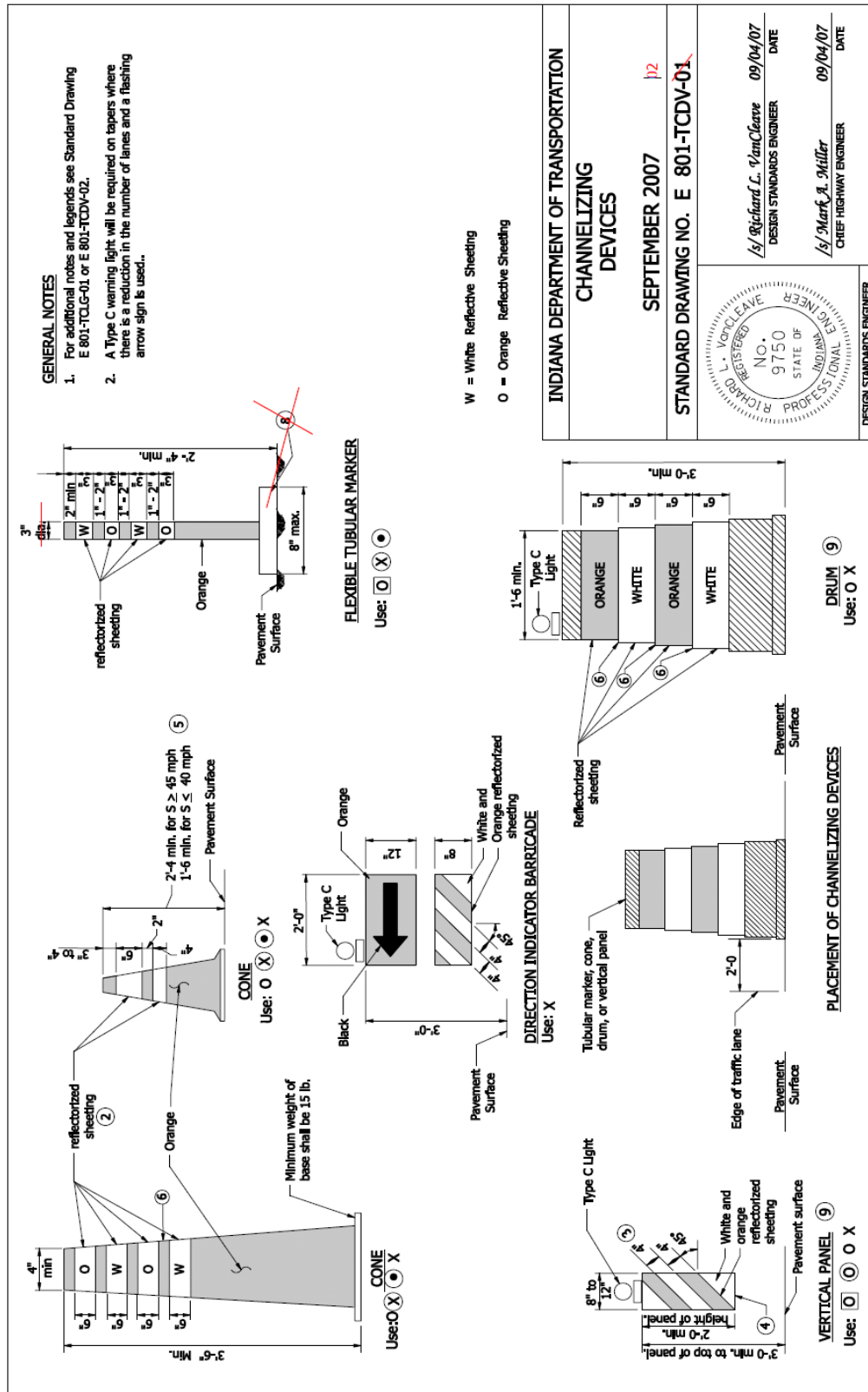
Guidance:

- 02 When an exit ramp is closed, an **EXIT CLOSED** sign panel with a black legend and border on an orange background should be placed diagonally across the interchange/intersection guide signs.
-

Figure 6F-5. Exit Open and Closed and Detour Signs



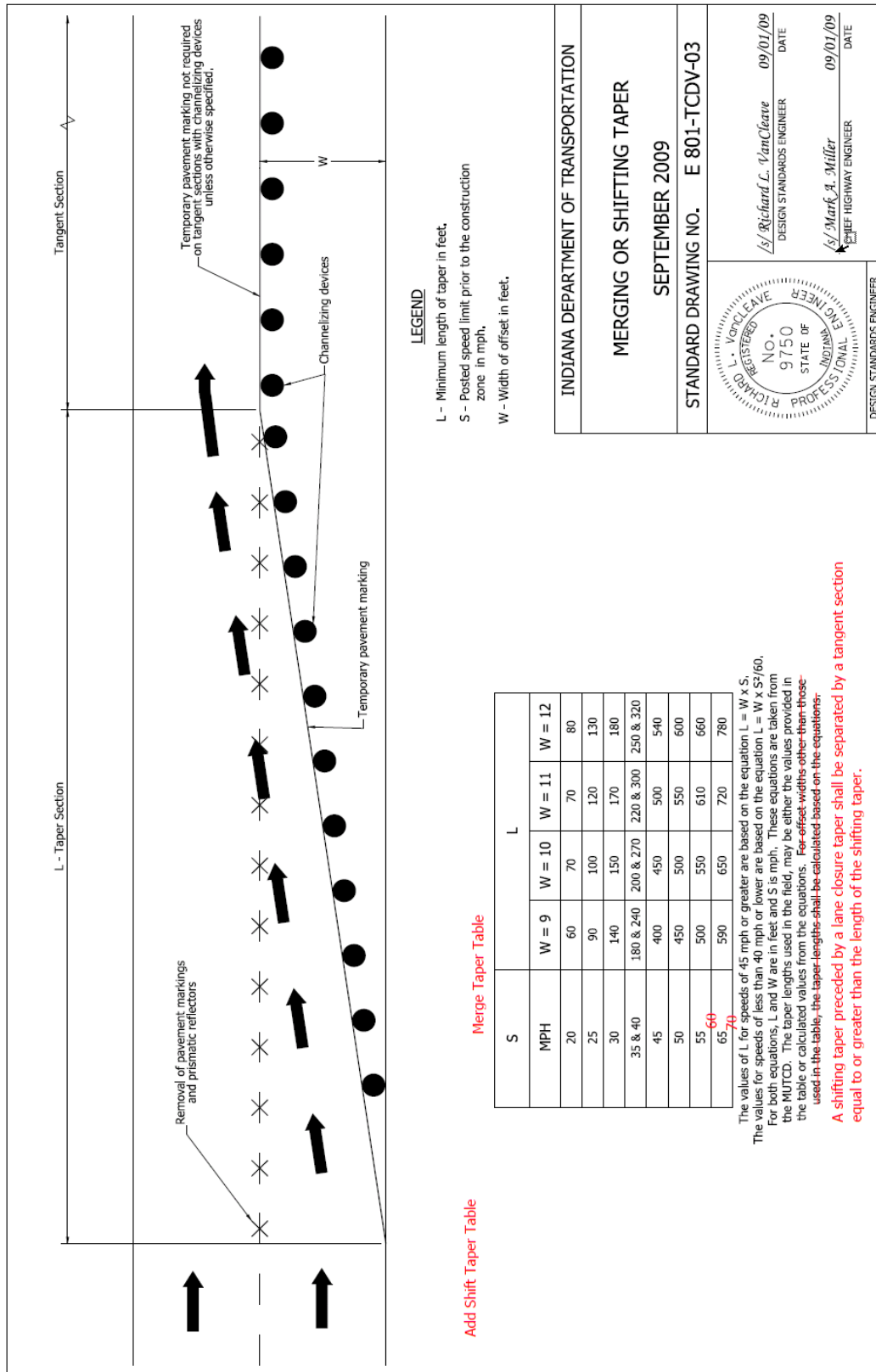
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
801-TCDV-01 CHANNELIZING DEVICES (WITH MARKUPS)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
801-TCDV-02 CHANNELIZING DEVICES (WITH MARKUPS)

GENERAL NOTES 1. Unless otherwise specified, channelizing devices shall be spaced as shown on Standard Drawing E 801-TCLG-01. 2. ReflectORIZED bands may be omitted from cones for lane closures during daylight hours. 3. For vertical panels ^{equal to or} greater than 3 ft in height, the width of the stripes shall be 6 in. 4. Vertical panels used on an expressway or a freeway shall have a minimum reflective panel area of 270 in². Other roadways with a posted speed limit of 50 mph or greater shall also have a minimum reflective panel area of 270 in². 5. Cones shall have a minimum height of 2'-4" when used at night. 6. The maximum distance between the edges of adjacent reflective sheeting strips shall be 2 in. <i>All channelizing devices</i> 7. ~~Panel and direction indicator~~ <i>barricades</i> and supports shall meet NCHRP 350 crash evaluation criteria. ~~8. Minimum flexible tubular marker base area shall be 0.3 ft².~~ 9. It is not necessary to delineate a drop-off of 3 in. or less adjacent to active travel lanes. Where channelizing devices are used to delineate drop-offs of 3 in. or less adjacent to active travel lanes, at least 33 in. of the device shall be above the adjoining pavement surface. Where channelizing devices are used to delineate a drop-off greater than 3 in. adjacent to active travel lanes, at least 27 in. of the device shall be above the adjoining pavement surface. In no case shall more than 9 in. of the device be below the adjoining pavement surface. 10. The proper orientation in respect to approaching vehicular traffic shall be maintained on ~~vertical panels~~ <i>channelizing devices</i>. Drums are the preferred channelizing device in a tight radius curve. <i>and at intersections.</i>	LEGEND O - Device may be used in tangent set-ups. X - Device may be used in taper or transition set-ups. ⊗ - Devices may be used in two-way traffic set-ups to divide opposing lanes of traffic. ● - Device may be used to divide two or more lanes of traffic in the same direction. ⊙ - Device may be used to replace barricades and drums where space is limited. □ - Device may be used to delineate edge of pavement drop-off where space is limited.
	INDIANA DEPARTMENT OF TRANSPORTATION CHANNELIZING DEVICES SEPTEMBER 2009 ⁰¹ STANDARD DRAWING NO. E 801-TCDV-~~02~~  DESIGN STANDARDS ENGINEER <i>/s/ Richard L. VanCleave</i> 09/01/09 DESIGN STANDARDS ENGINEER DATE <i>/s/ Mark A. Miller</i> 09/01/09 CHIEF HIGHWAY ENGINEER DATE

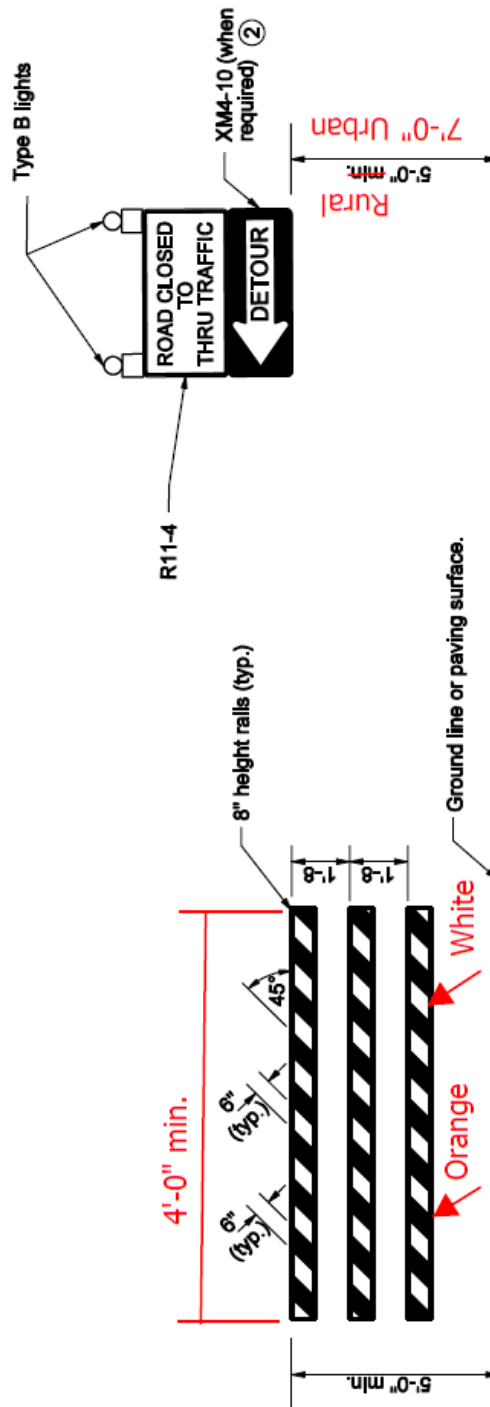
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
 801-TCDV-03 MERGING OR SHIFTING TAPER (WITH MARKUPS)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
 801-TCDV-04 TYPE III BARRICADE (WITH MARKUPS)

General Notes

1. Barricades lights, signs, and supports shall meet NCHRP 350 crash evaluation criteria.
- ② The Detour Arrow sign shall be used only when a detour route has been signed.

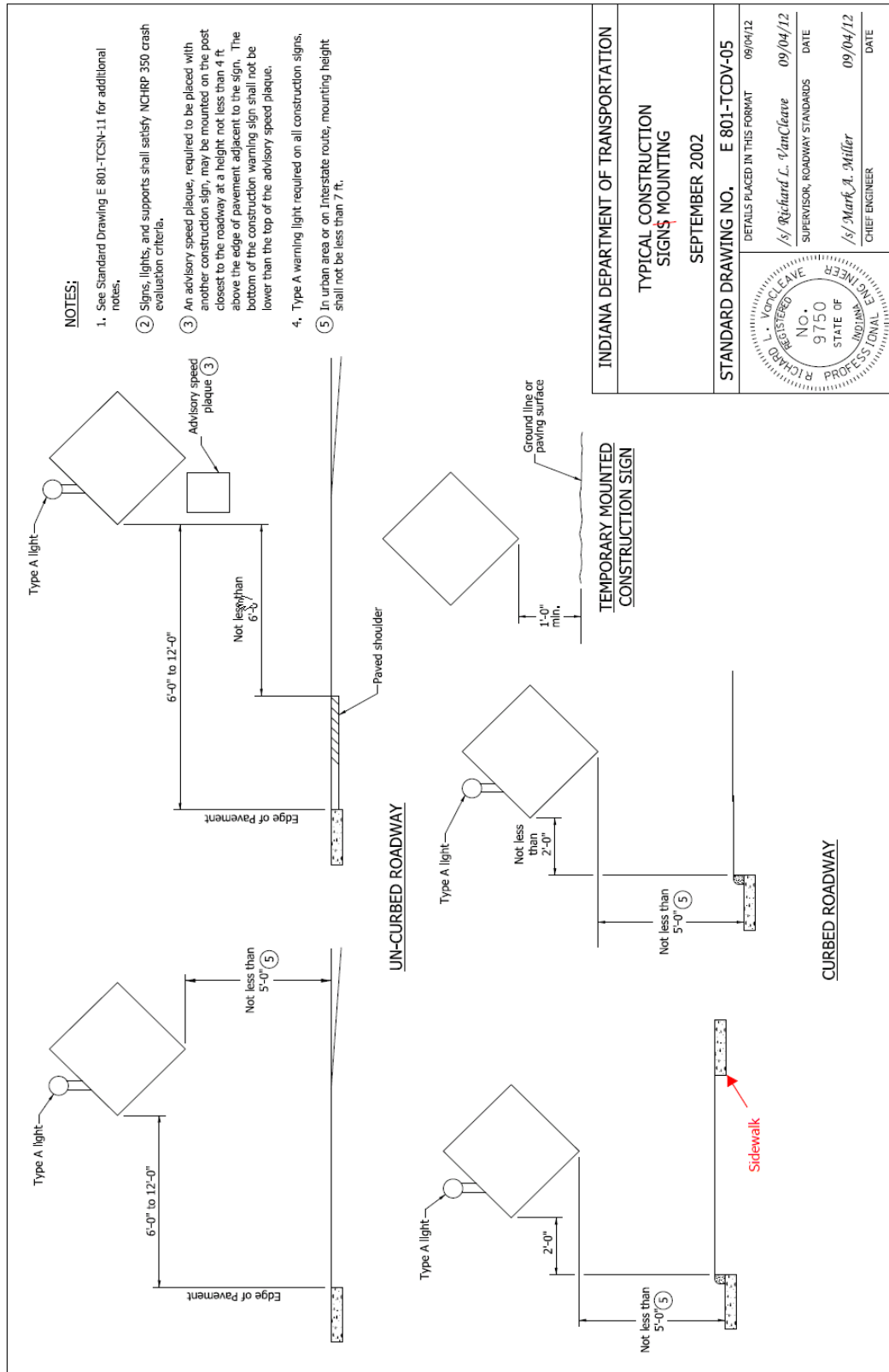


TYPE III BARRICADE

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPE III BARRICADE	
SEPTEMBER 2002	
STANDARD DRAWING NO. E 801-TCDV-04	
DESIGNED BY /s/ Richard L. VerChies DESIGN ENGINEER NO. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER	DATE 9-03-02
CHECKED BY /s/ Richard K. Smutzer CHIEF ENGINEER	DATE 9-03-02

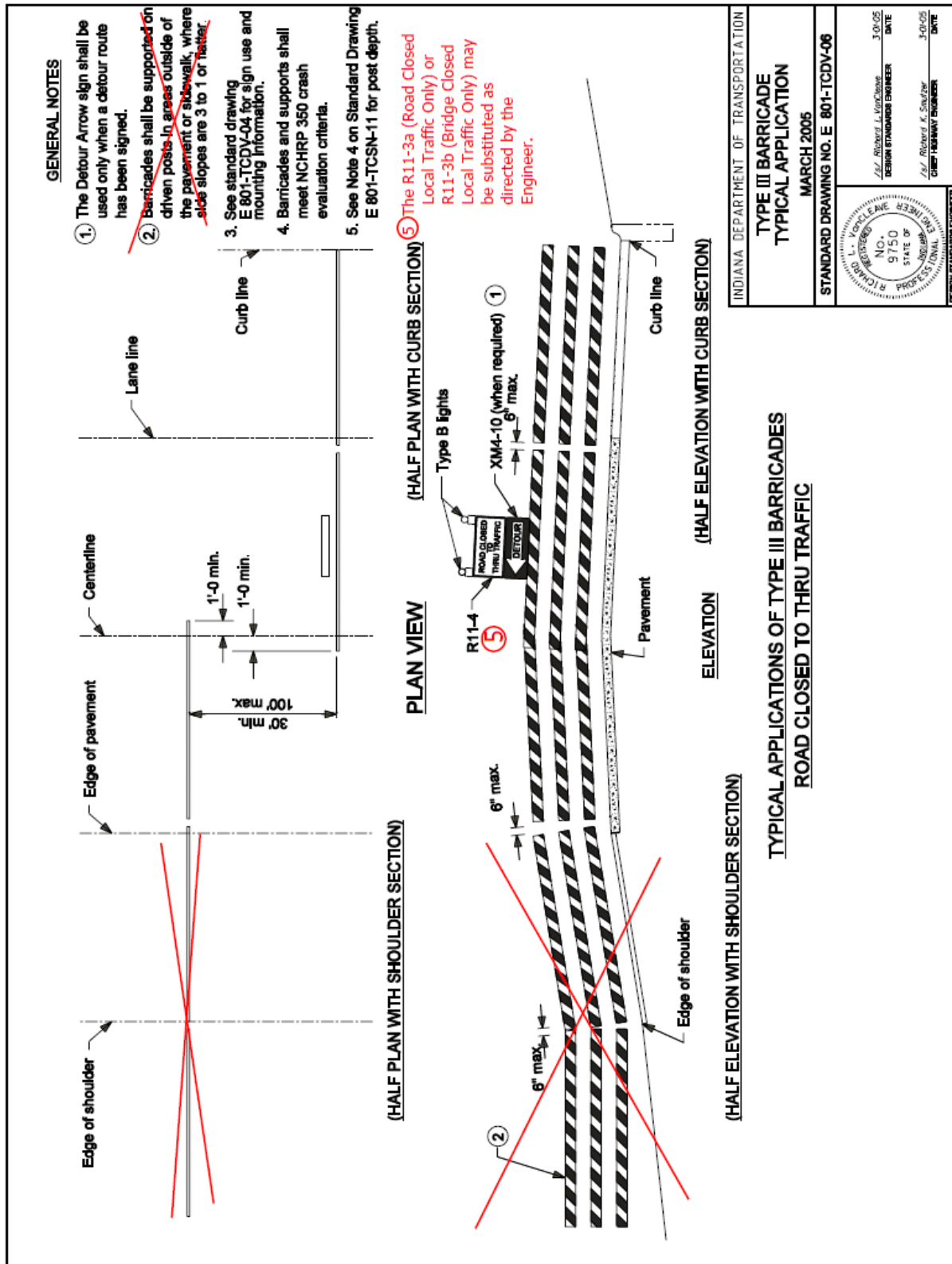
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-05 TYPICAL CONSTRUCTION SIGNS MOUNTING (WITH MARKUPS)



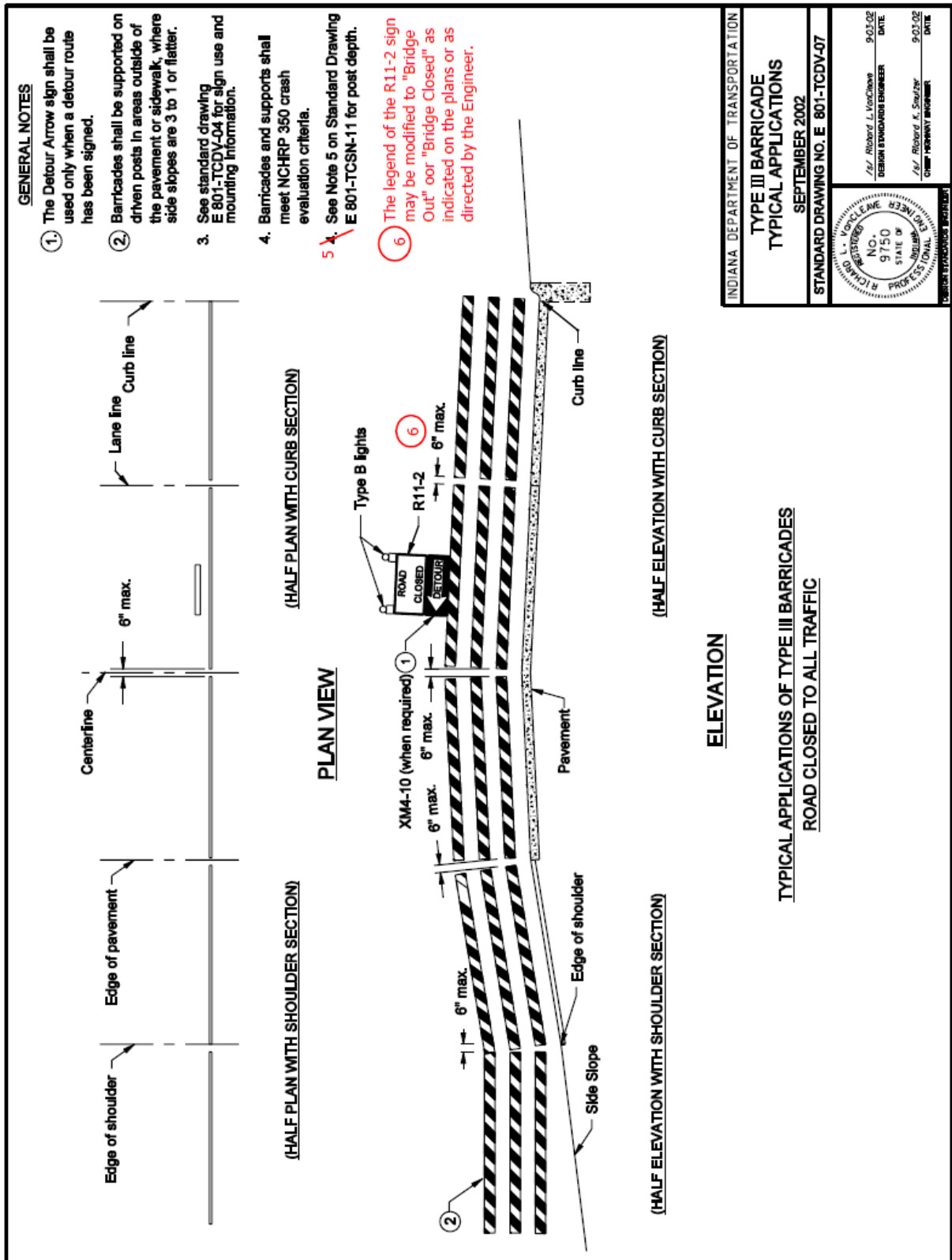
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-06 TYPE III BARRICADE TYPICAL APPLICATION (WITH MARKUPS)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-07 TYPE III BARRICADE TYPICAL APPLICATIONS (WITH MARKUPS)

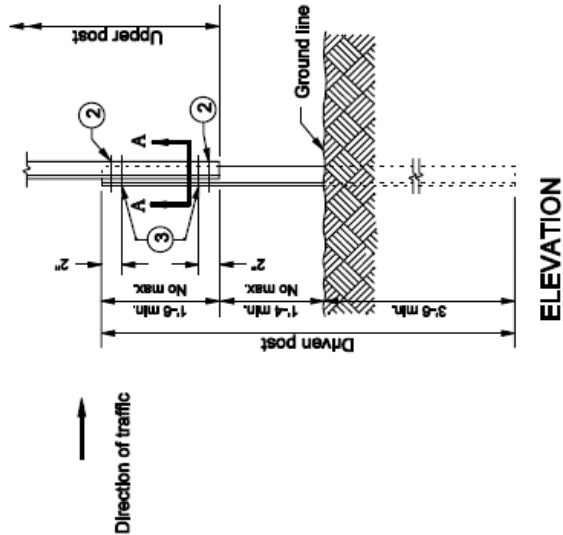
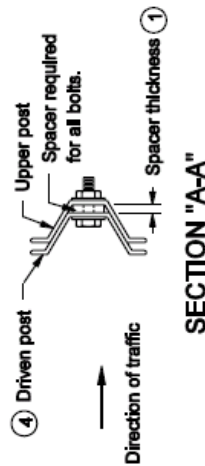


REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-08 U CHANNEL STEEL POST SPLICE DETAIL

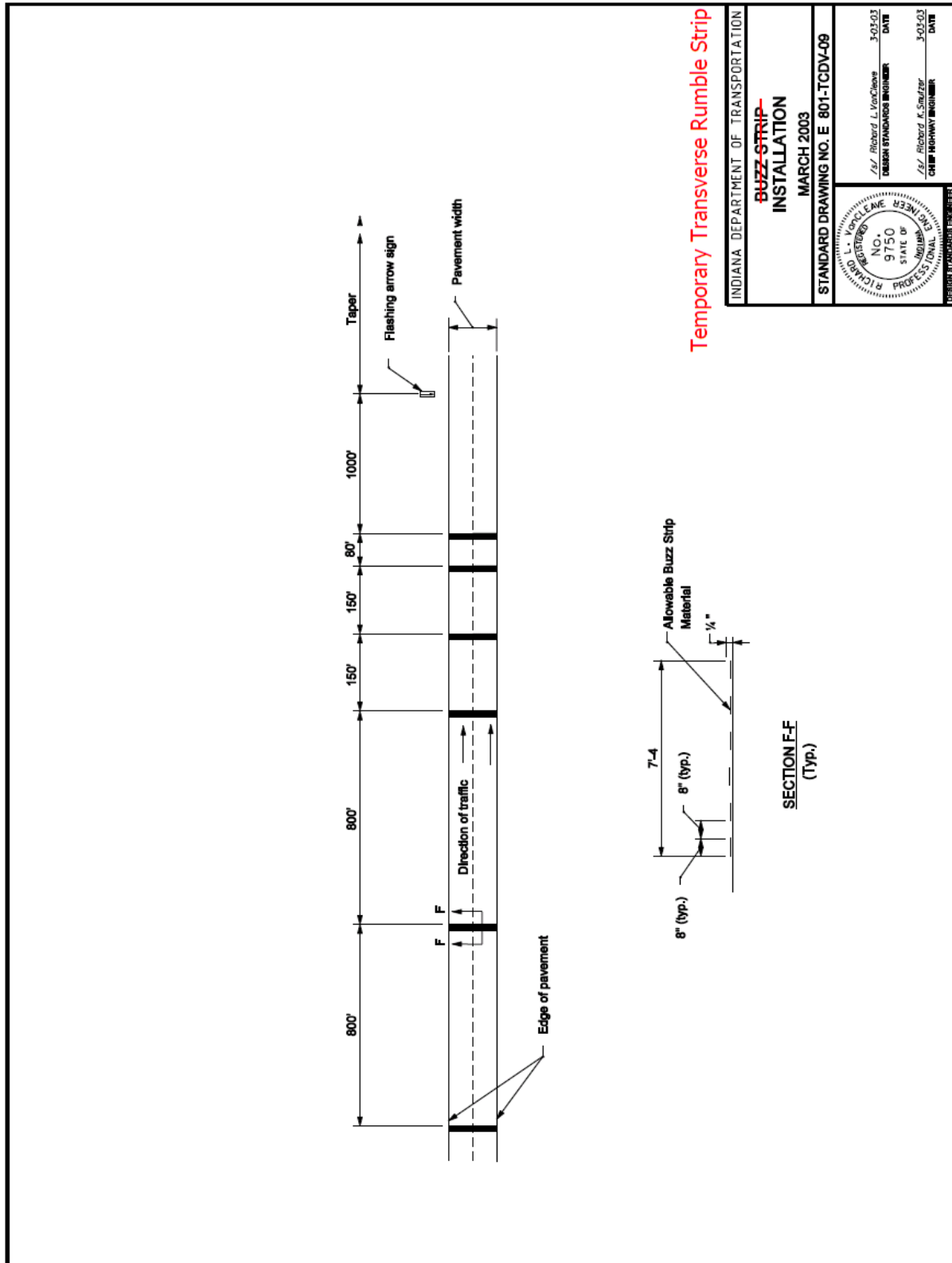
GENERAL NOTES

- ① The spacer thickness shall be $\frac{1}{8}$ in., less than the gap between the posts when positioned in the unbolted configuration.
- ② The exterior bolt, spacer, washer, and nut shall be installed in a prepunched hole within the first 2 in. of the end of the lapped post section.
- ③ The interior bolt, spacer, washer, and nut shall be installed in a prepunched hole within the first 2 in. of the exterior bolts. The maximum spacing between the interior bolts shall be 1'-6". If the length of the post lap is increased such that this 1'-6" maximum is exceeded, then additional interior bolts shall be installed such that the maximum space between adjacent interior bolts does not exceed the 1'-6" limit.
- ④ The driven post shall always be mounted in front of the upper post with respect to adjacent oncoming traffic, regardless of the direction the sign is facing.
5. The bolts shown shall be $\frac{5}{16}$ " x 2".

U CHANNEL STEEL POST SPLICE

INDIANA DEPARTMENT OF TRANSPORTATION	
U CHANNEL STEEL POST SPLICE DETAIL SEPTEMBER 2002	
STANDARD DRAWING NO. E 801-TCDV-08	
	JLV Richard L. VerChave DESIGN ENGINEER DATE 9-01-02
	JVS Richard K. Sauter CHECK ENGINEER DATE 9-01-02

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
 801-TCDV-09 BUZZ STRIP INSTALLATION (WITH MARKUPS)



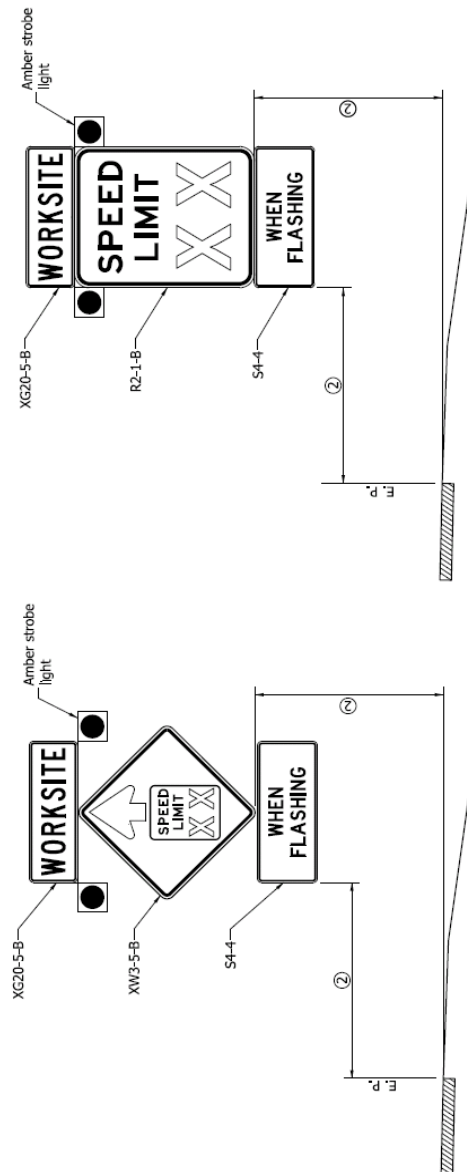
INDIANA DEPARTMENT OF TRANSPORTATION	
~~BUZZ STRIP~~ INSTALLATION	
MARCH 2003	
STANDARD DRAWING NO. E 801-TCDV-09	
REGISTERED PROFESSIONAL ENGINEER NO. 9750 STATE OF INDIANA RICHARD L. VORCIEN DESIGN STANDARD ENGINEER	3-03-03 DATE 3-03-03 DATE
3-03-03 DATE 3-03-03 DATE RICHARD K. SMUTZER CHIEF HIGHWAY ENGINEER	

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

EXISTING 801-TCDV-10 WORKSITE SPEED LIMIT SIGN ASSEMBLY FOR
INTERMITTENT USE

NOTES:

1. If not trailer mounted, signs and supports shall satisfy NCHRP 350 crash evaluation criteria.
2. See Standard Drawing 801-TCDV-05 for lateral and vertical placement.
3. Advance warning sign speed limit shall match that on worksite speed limit sign.
4. The worksite speed limit shall be at least 10 mph below the posted speed limit for the roadway under construction.
5. Sign series shown is for freeway or expressway application.

WORKSITE SPEED LIMIT
SIGN ASSEMBLYREDUCED SPEED ADVANCE
WARNING SIGN ASSEMBLY

INDIANA DEPARTMENT OF TRANSPORTATION

WORKSITE SPEED LIMIT SIGN ASSEMBLY
FOR INTERMITTENT USE
(When Workers Present)
SEPTEMBER 2012

STANDARD DRAWING NO. E 801-TCDV-10



/s/ Richard L. VanCleave

SUPERVISOR, ROADWAY STANDARDS

DATE

09/04/12

/s/ Mark A. Miller

CHIEF ENGINEER

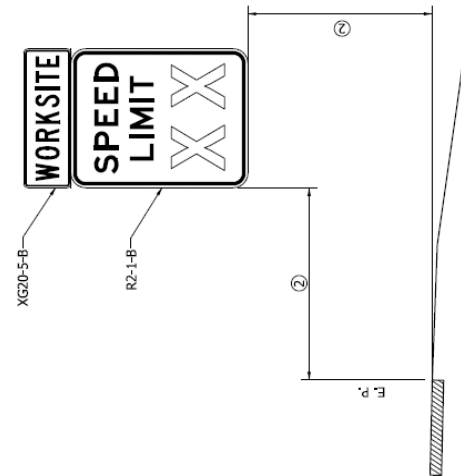
DATE

09/04/12

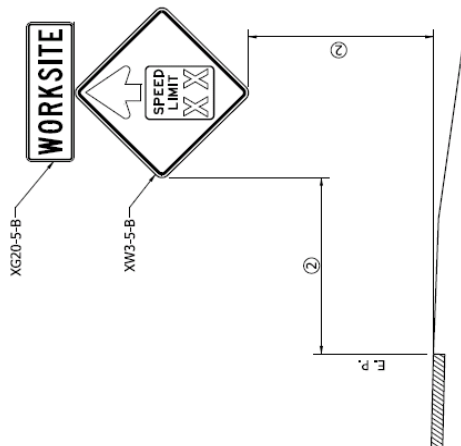
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
EXISTING 801-TCDV-11 WORKSITE SPEED LIMIT SIGN ASSEMBLY

NOTES:

1. If not trailer mounted, signs and supports shall satisfy NC-RP 350 crash evaluation criteria.
2. See Standard Drawing 801-TCDV-05 for lateral and vertical placement.
3. Advance warning sign speed limit shall match that on worksite speed limit sign.
4. The worksite speed limit shall be at least 10 mph below the posted speed limit for the roadway under construction.
5. Sign series shown is for freeway or expressway application.



WORKSITE SPEED LIMIT
SIGN ASSEMBLY

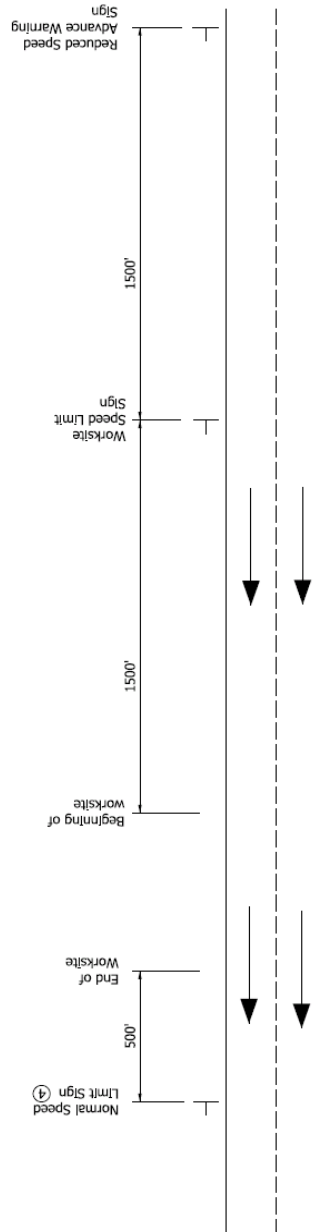


REDUCED SPEED ADVANCE
WARNING SIGN ASSEMBLY

INDIANA DEPARTMENT OF TRANSPORTATION	
WORKSITE SPEED LIMIT SIGN ASSEMBLY (For Continuous Use) SEPTEMBER 2012	
STANDARD DRAWING NO. E 801-TCDV-11	
	/s/ Richard L. VanCleave 09/04/12 SUPERVISOR, ROADWAY STANDARDS DATE
	/s/ Mark A. Miller 09/04/12 CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

EXISTING 801-TCDV-12 WORKSITE SPEED LIMIT SIGN ASSEMBLY LONGITUDINAL PLACEMENT



NOTES:

1. Worksite speed limit sign assemblies shall be placed on both sides of the roadway only where all travel lanes approaching the construction site are open to traffic traveling in the same direction.
2. Worksite speed limit sign assemblies shall be placed 500 ft beyond each crossroad or the last entrance ramp for each interchange, at 2-mile intervals throughout the worksite, or adjacent to the existing normal speed limit signs.
3. See Standard Drawings E 801-TCDV-10 and -11 for additional notes on assembly requirements.
- ④ For a rural Interstate route application, a truck speed limit sign shall be used and placed immediately to the right of the normal speed limit sign.

INDIANA DEPARTMENT OF TRANSPORTATION	
WORKSITE SPEED LIMIT SIGN ASSEMBLY LONGITUDINAL PLACEMENT SEPTEMBER 2012	
STANDARD DRAWING NO. E 801-TCDV-12	
	/s/ Richard L. VanCleave SUPERVISOR, ROADWAY STANDARDS DATE 09/04/12
	/s/ Mark A. Miller CHIEF ENGINEER DATE 09/04/12

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-01 CHANNELIZING DEVICES (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

INDEX	
SHEET NO.	SUBJECT
1	Index
2	Channelizing Devices
3	Merging or Shifting Taper
4	Type III Barricade
5	Typical Construction Sign Mounting
6	Type III Barricade Application for Road Closure for Thru Traffic
7	Type III Barricade Application for Road Closure to All Traffic
8	U Channel Steel Post Splice Detail
9	Temporary Transverse Rumble Strip Installation
10	Worksite Speed Limit Sign Assembly for Intermittent Use
11	Worksite Speed Limit Sign Assembly for Continuous Use
12	Worksite Speed Limit Sign Assembly Longitudinal Placement

GENERAL NOTES

1. Unless otherwise specified, channelizing devices shall be spaced as shown on Standard Drawing E 801-TCLG-01.
2. Reflectorized bands may be omitted from cones for lane closures during daylight hours.
3. For vertical panels equal to or greater than 3 ft in height, the width of the stripes shall be 6 in.
4. Vertical panels used on an expressway or a freeway shall have a minimum reflective panel area of 270 sq. in. Other roadways with a posted speed limit of 50 mph or greater shall have a minimum reflective panel area of 270 sq. in., also.
5. Cones shall have a minimum height of 2'-4" when used at night.
6. The maximum distance between the edges of adjacent reflective sheeting strips shall be 2 in.
7. All channelizing devices shall meet NCHRP 350 crash evaluation criteria.
8. It is not necessary to delineate a drop-off of 3 in. or less adjacent to active travel lanes. Where channelizing devices are used to delineate drop-offs of 3 in. or less adjacent to active travel lanes, at least 33 in. of the device shall be above the adjoining pavement surface. Where channelizing devices are used to delineate a drop-off greater than 3 in. adjacent to active travel lanes, at least 27 in. of the device shall be above the adjoining pavement surface and a Type C warning light shall be attached to the top of the device (on the pavement side). In no case shall more than 9 in. of the device be below the adjoining pavement surface.
9. The proper orientation in respect to approaching vehicular traffic shall be maintained on channelizing devices. Drums are the preferred channelizing vehicle in a tight radius curve and at intersections.

LEGEND

○ - Device may be used in tangent set-ups.

X - Device may be used in tangent set-ups.

⊗ - Devices may be used in two-way traffic set-ups to divide opposing lanes of traffic.

● - Device may be used to divide two or more lanes of traffic in the same direction.

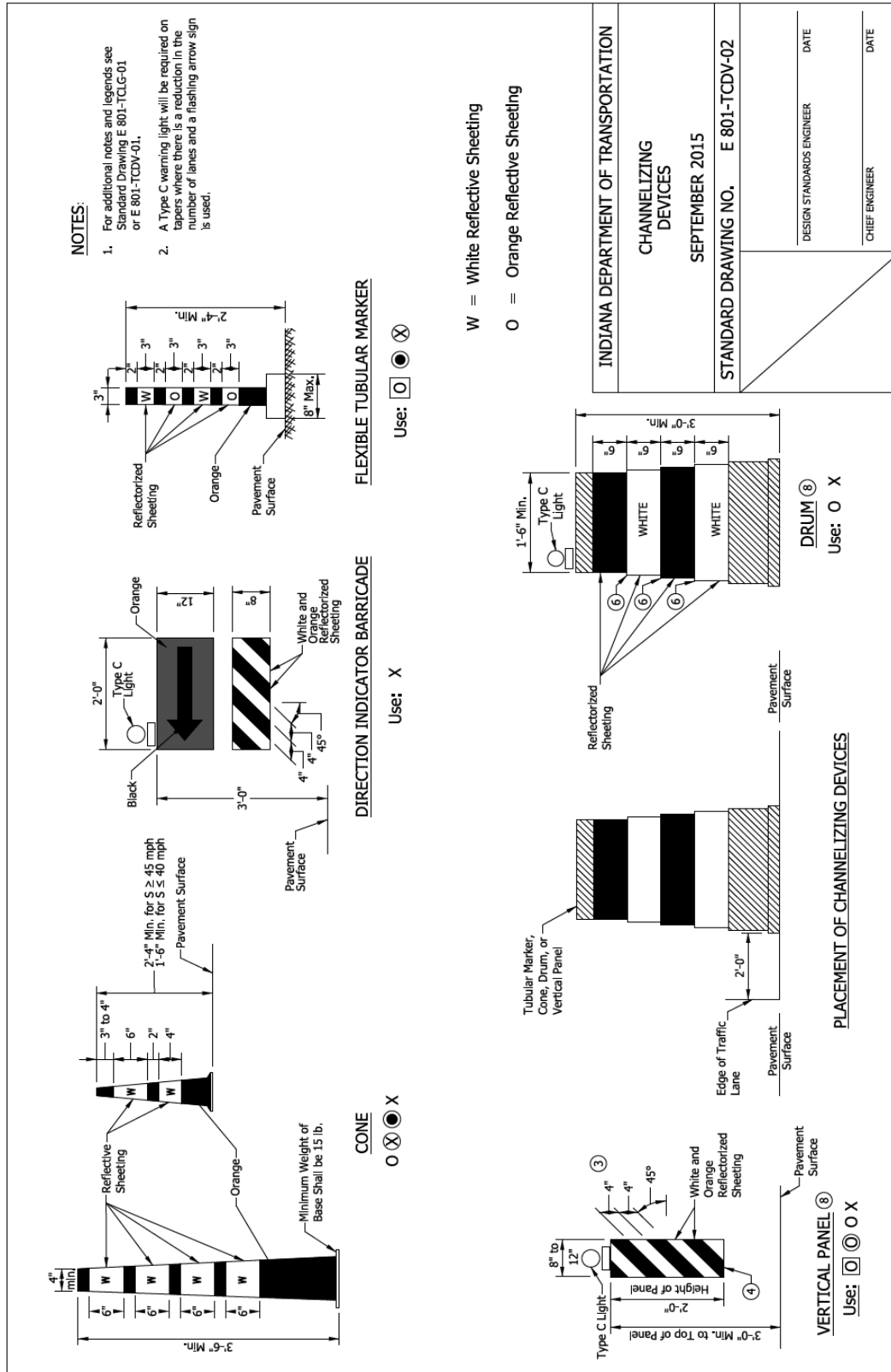
○ - Device may be used to replace barricades and drums where space is limited.

◻ - Device may be used to delineate edge of pavement drop-off where space is limited.

INDIANA DEPARTMENT OF TRANSPORTATION					
INDEX SHEET TRAFFIC CONTROL DEVICES SEPTEMBER 2015					
STANDARD DRAWING NO. E 801-TCDV-01					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DESIGN STANDARDS ENGINEER</td> <td style="width: 50%;">DATE</td> </tr> <tr> <td>CHIEF ENGINEER</td> <td>DATE</td> </tr> </table>	DESIGN STANDARDS ENGINEER	DATE	CHIEF ENGINEER	DATE
DESIGN STANDARDS ENGINEER	DATE				
CHIEF ENGINEER	DATE				

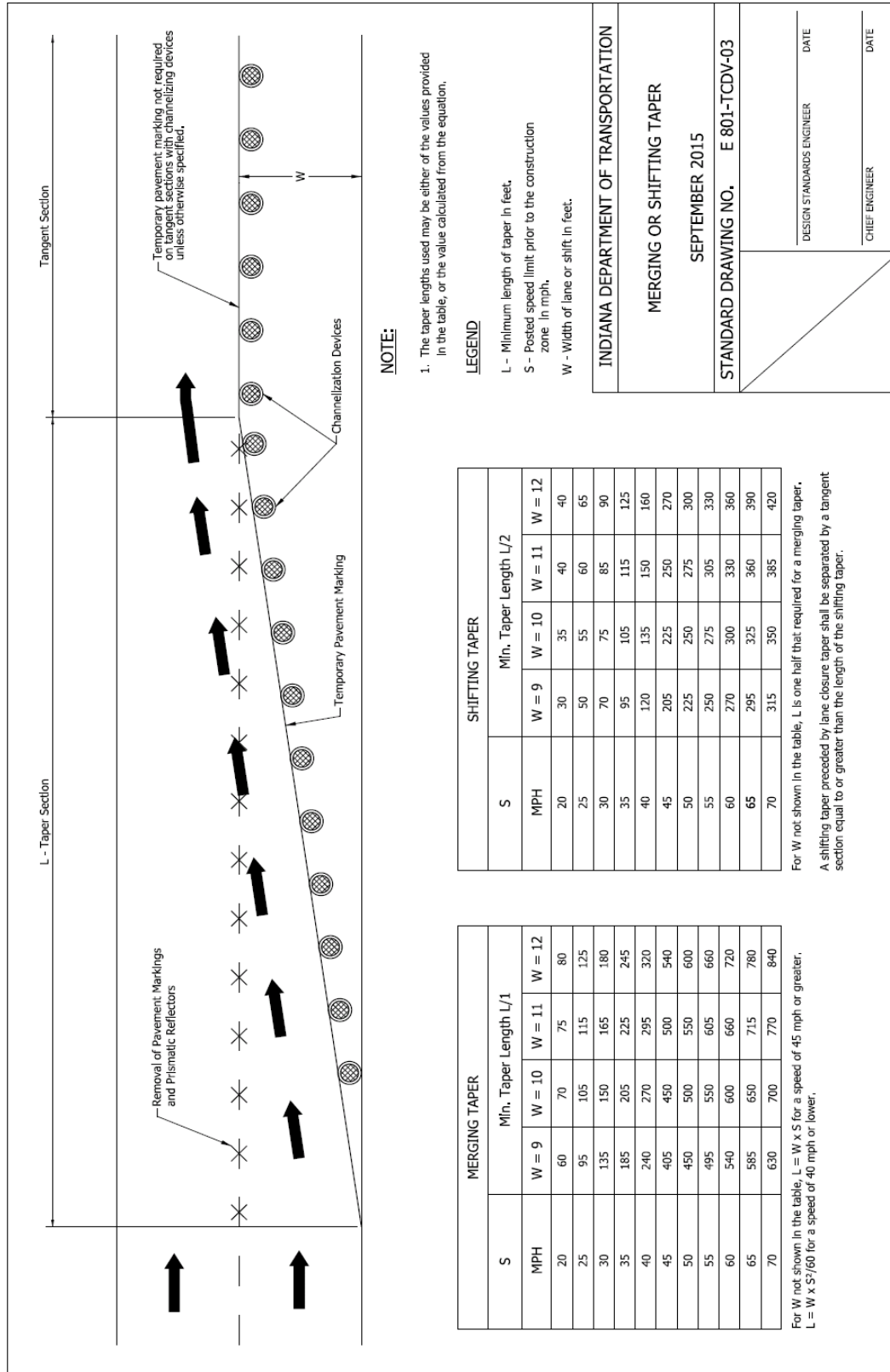
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-02 CHANNELING DEVICES (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



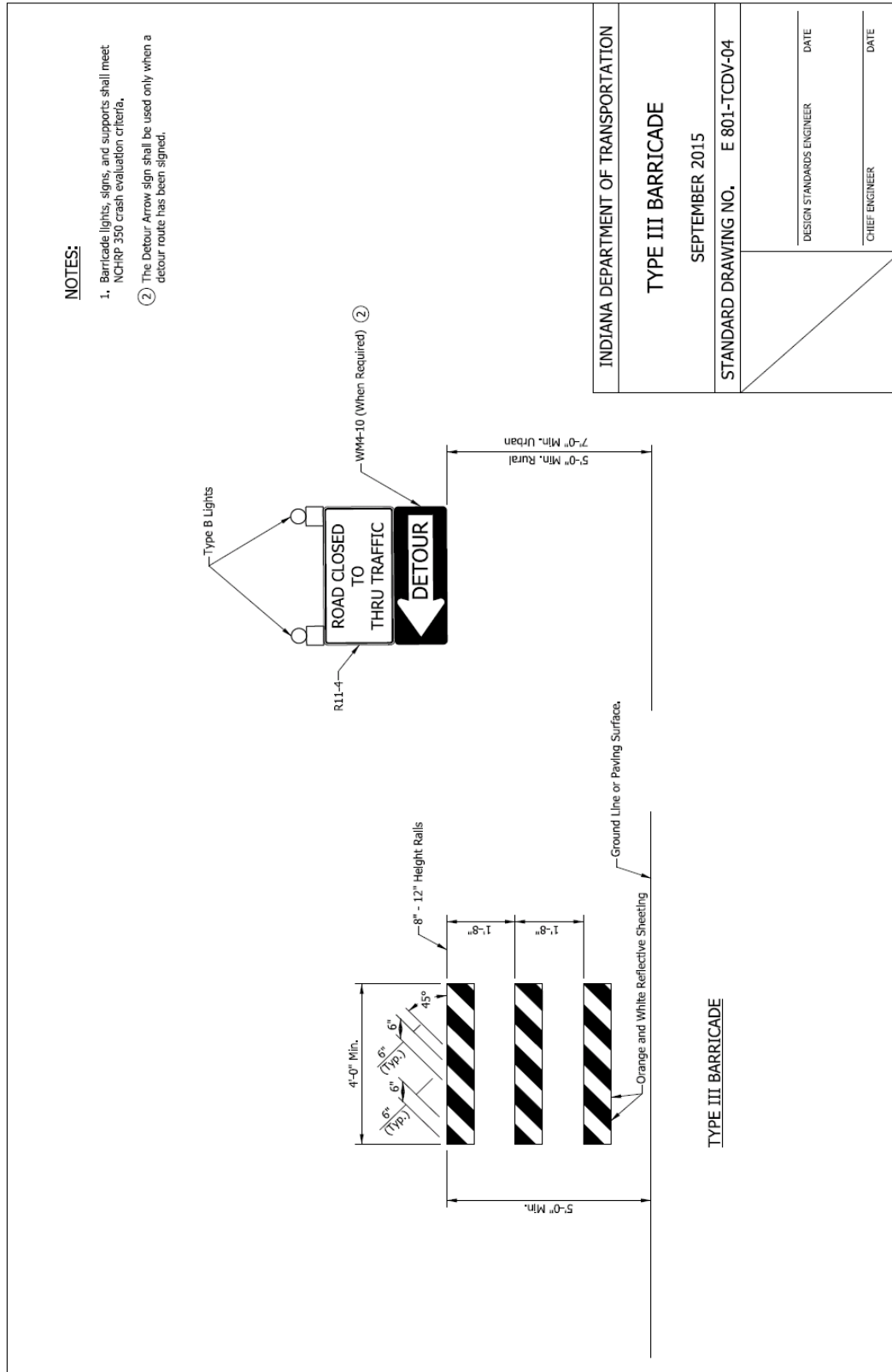
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-03 MERGING OR SHIFTING TAPER (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



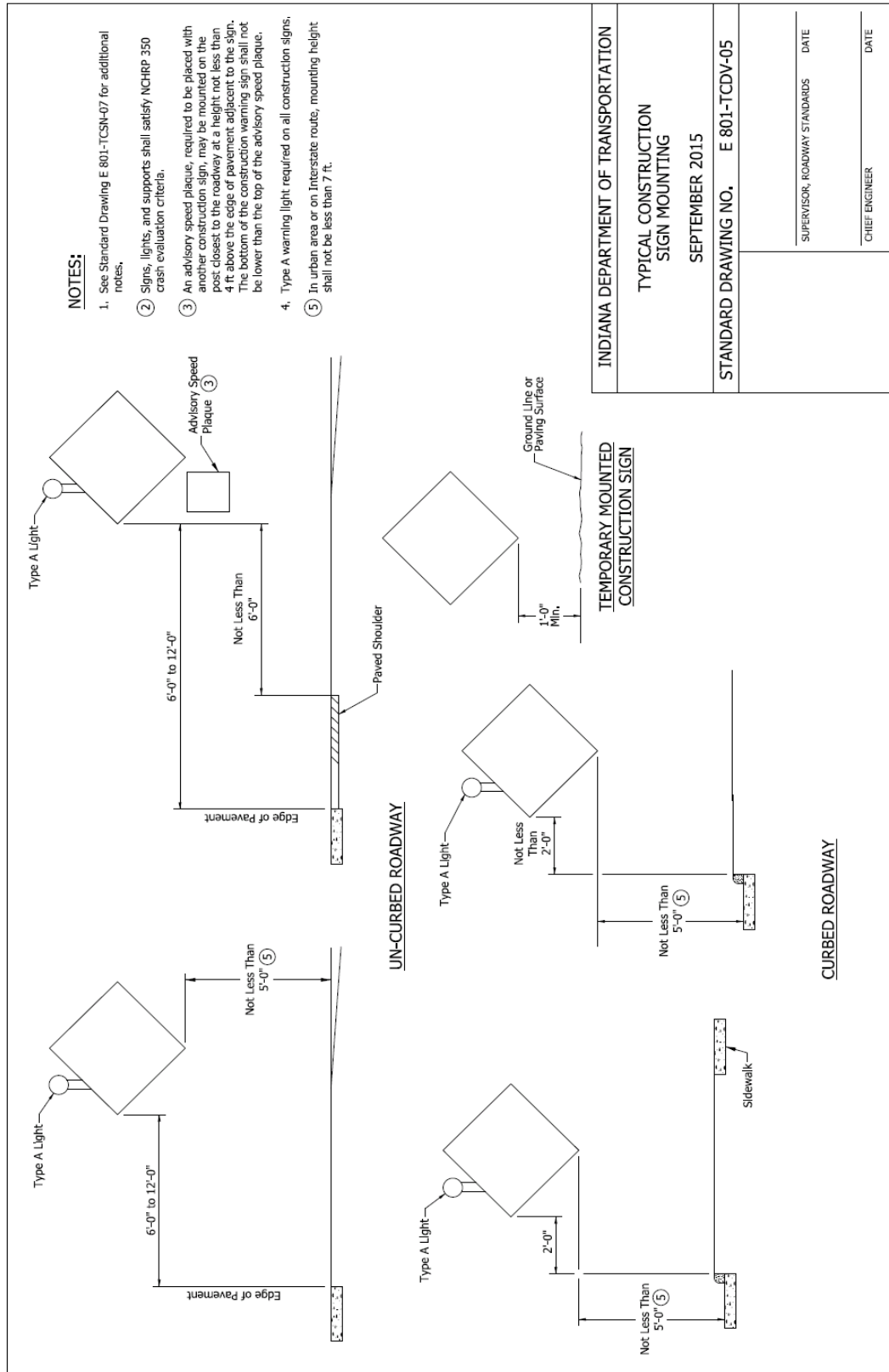
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-04 TYPE III BARRICADE (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



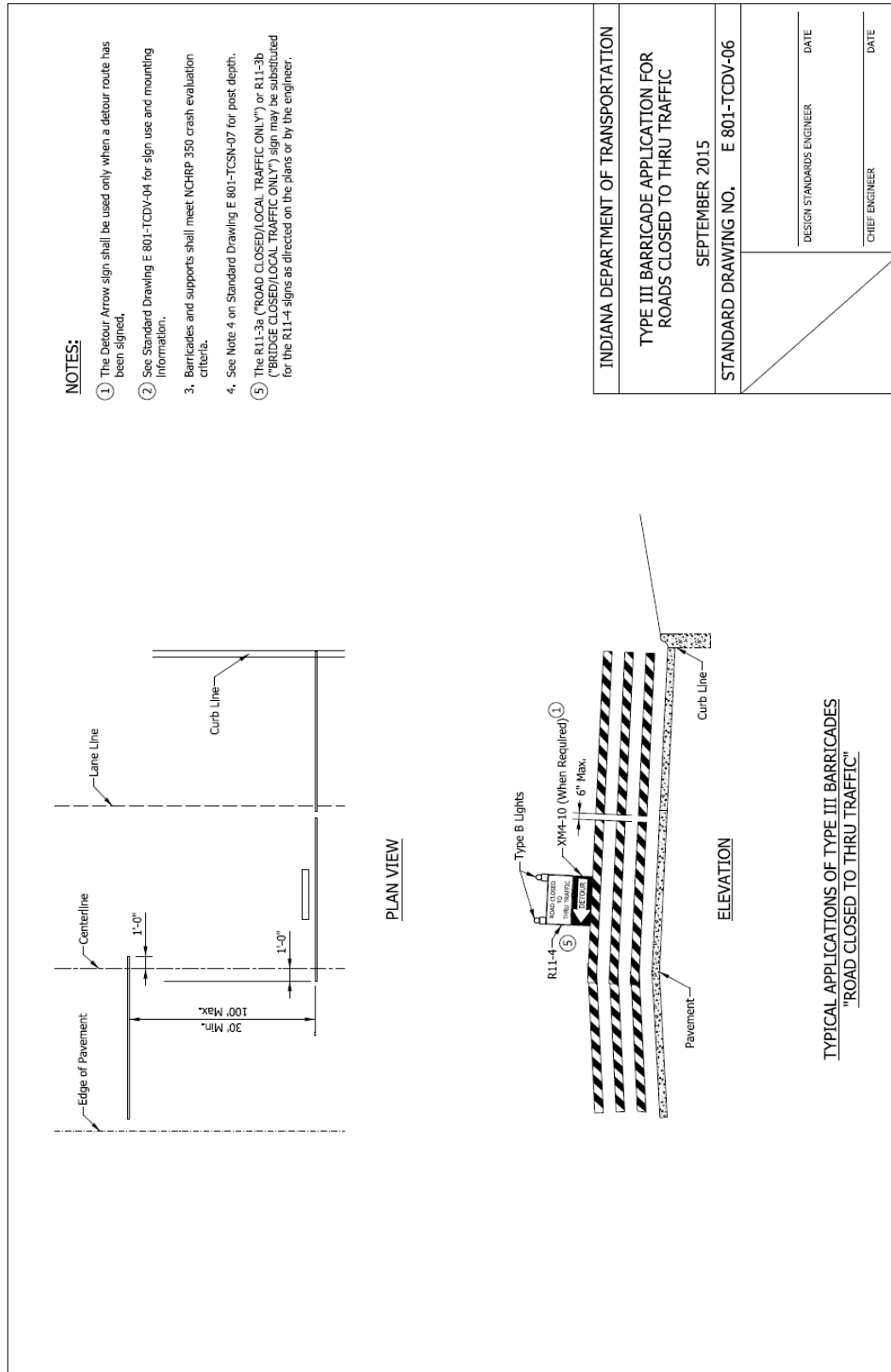
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-05 TYPICAL CONSTRUCTION SIGN MOUNTING (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



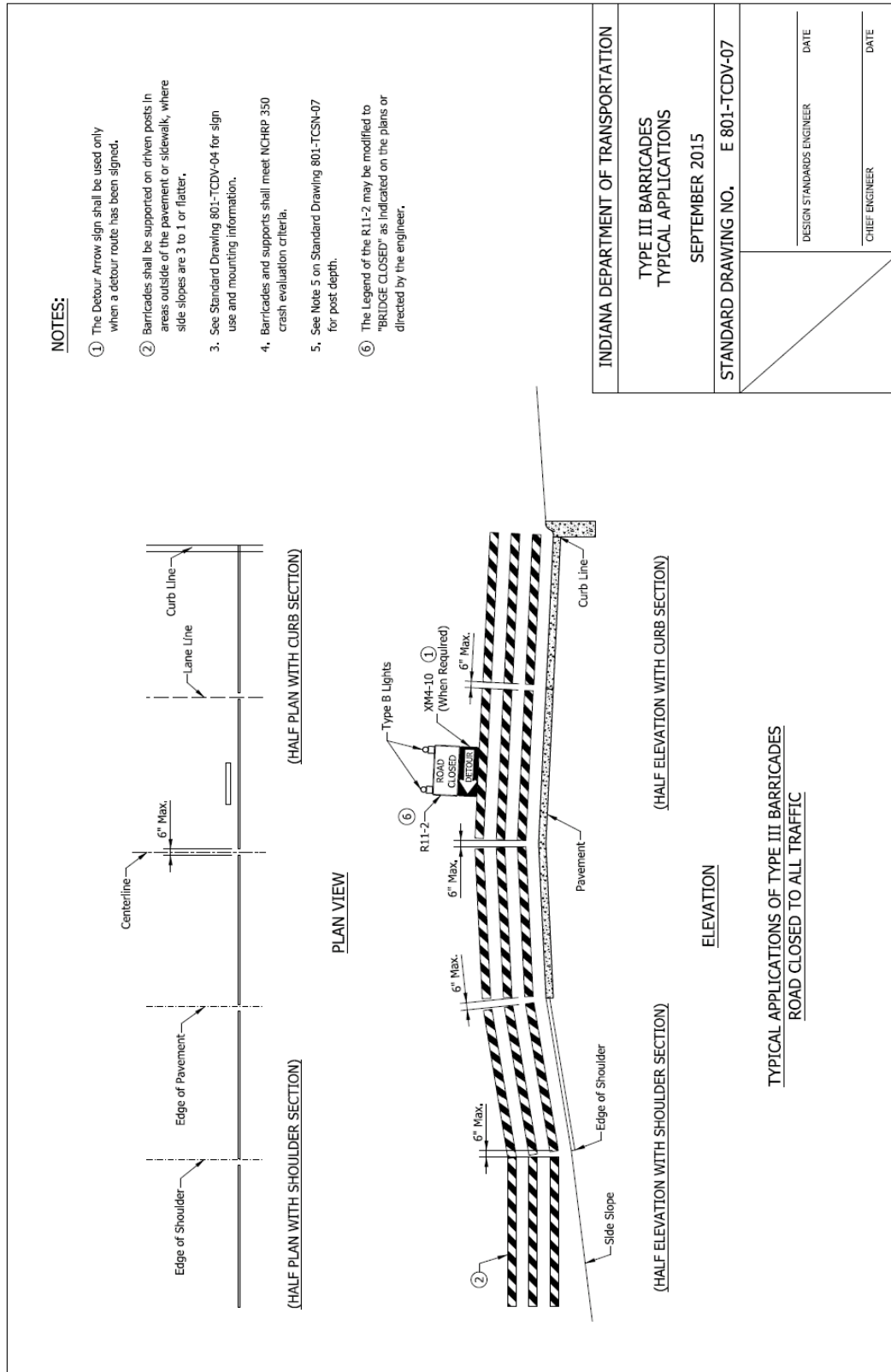
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-06 TYPE III BARRICADE APPLICATION FOR ROADS CLOSED TO THRU TRAFFIC (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



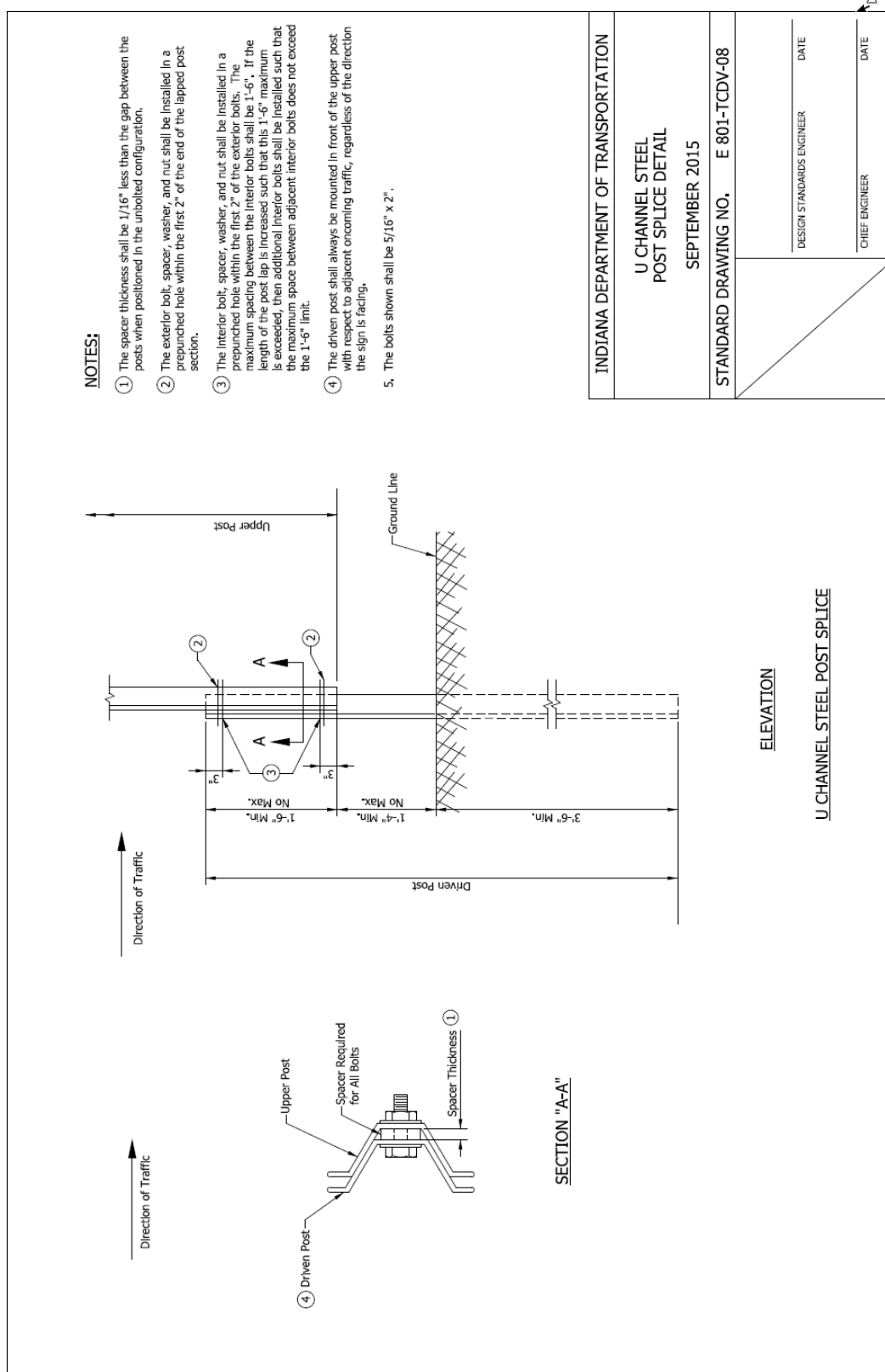
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-07 TYPE III BARRICADES TYPICAL APPLICATIONS (PROPOSED DRAFT,
SEE RPD 801-R-622d, BEGIN pg 80)



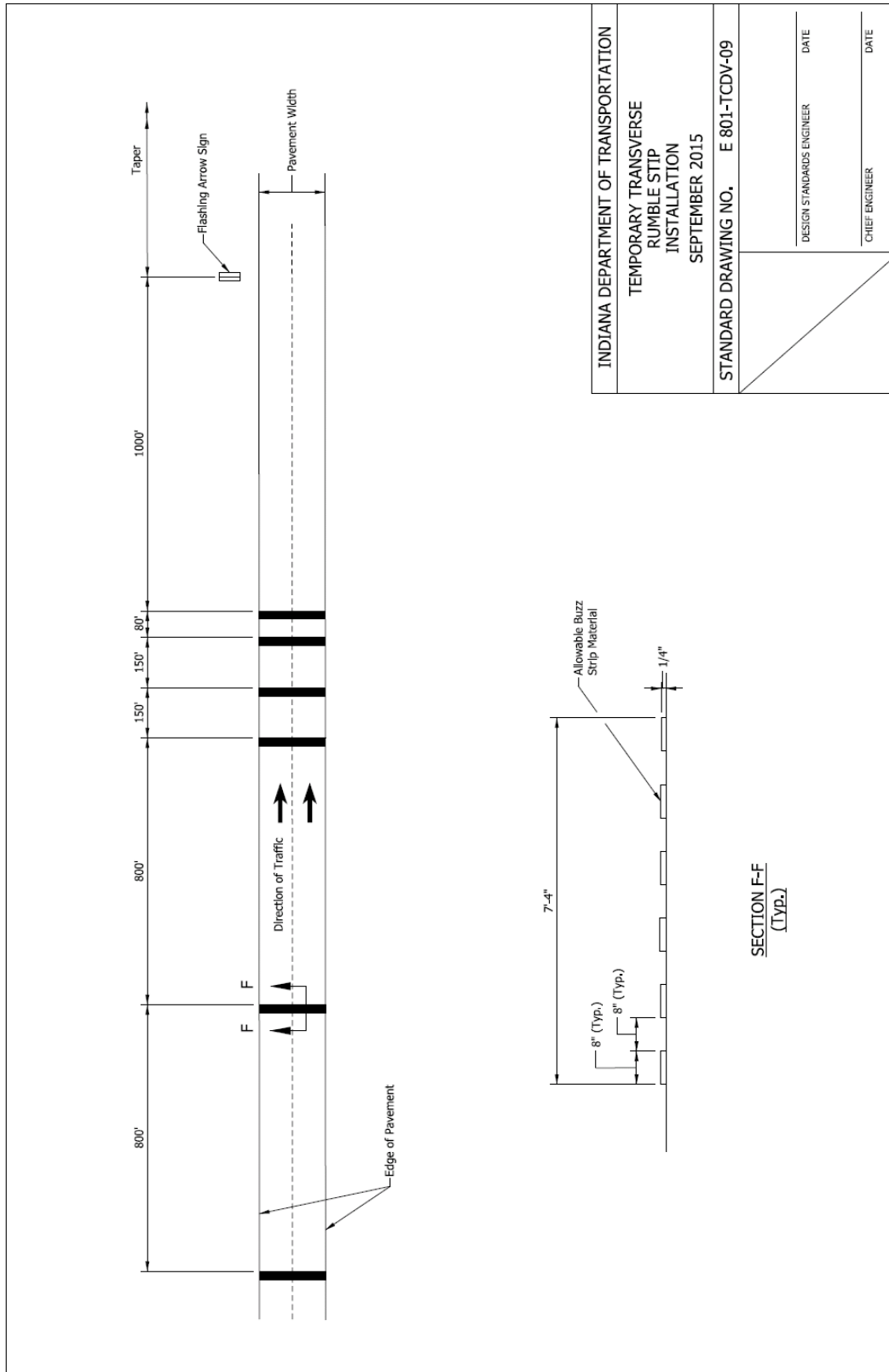
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-08 U CHANNEL STEEL POST SPLICE DETAIL (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-09 TEMPORARY TRANSVERSE RUMBLE STRIP INSTALLATION (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

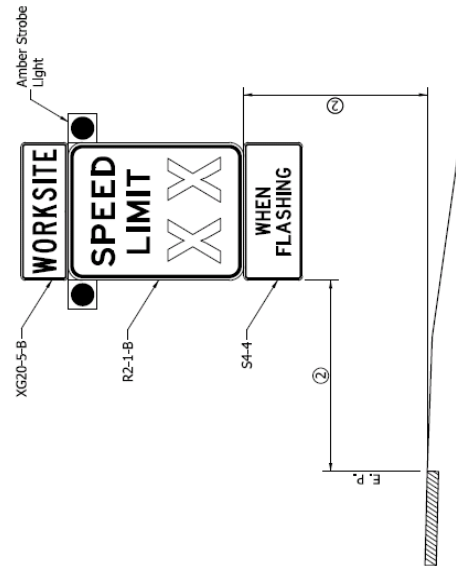


REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

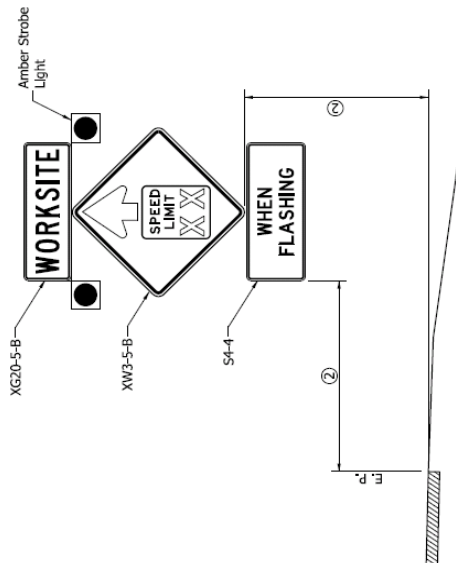
801-TCDV-10 WORKSITE SPEED LIMIT SIGN ASSEMBLY FOR INTERMITTENT USE
(PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)

NOTES:

1. If not trailer mounted, signs and supports shall satisfy NCHRP 350 crash evaluation criteria.
2. See Standard Drawing 801-TCDV-05 for lateral and vertical placement.
3. Advance warning sign speed limit shall match that on worksite speed limit sign.
4. The worksite speed limit shall be at least 10 mph below the posted speed limit for the roadway under construction.
5. Sign series shown is for freeway or expressway application.



WORKSITE SPEED LIMIT
SIGN ASSEMBLY

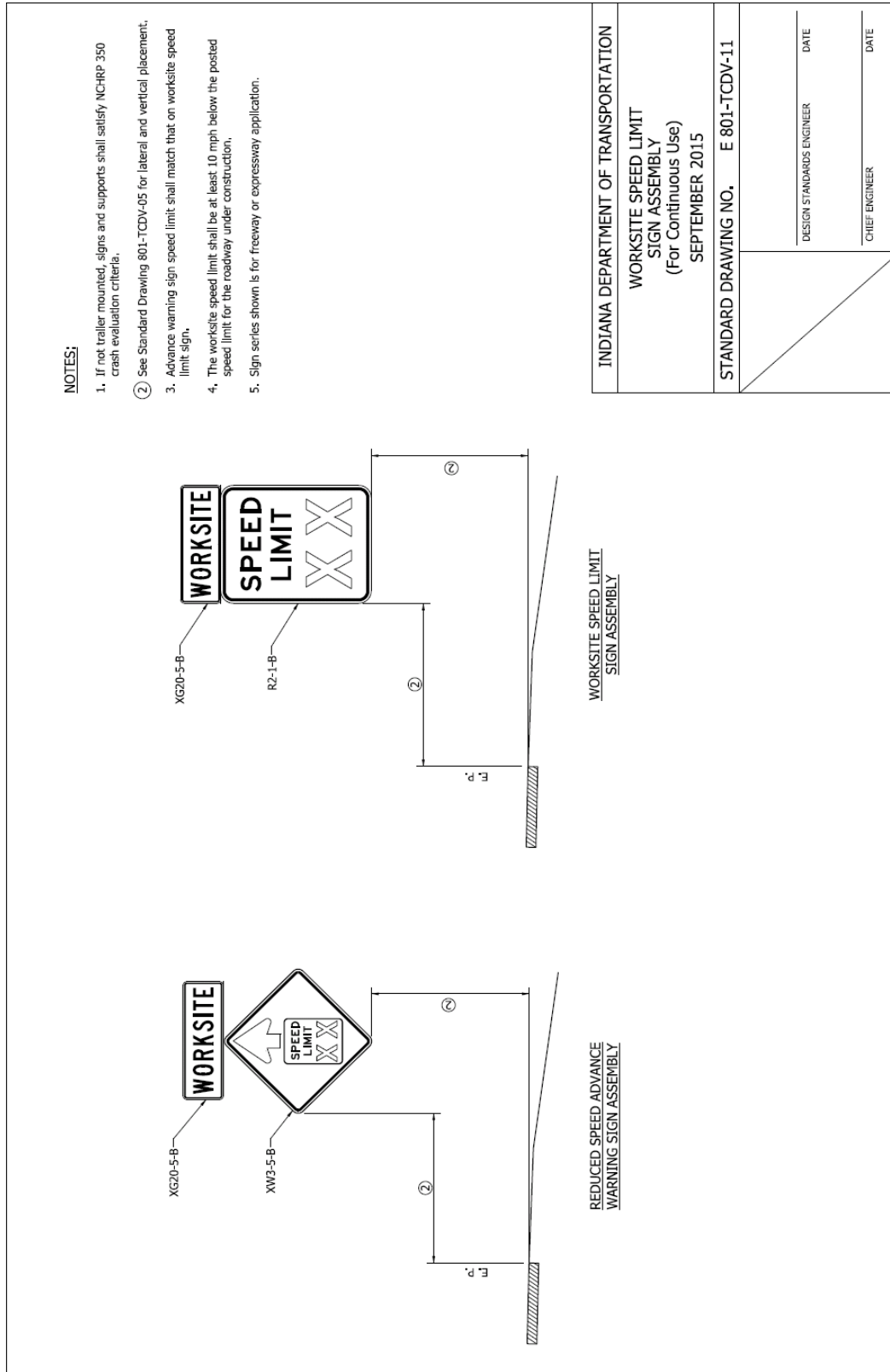


REDUCED SPEED ADVANCE
WARNING SIGN ASSEMBLY

INDIANA DEPARTMENT OF TRANSPORTATION	
WORKSITE SPEED LIMIT SIGN ASSEMBLY FOR INTERMITTENT USE (When Workers Present) SEPTEMBER 2015	
STANDARD DRAWING NO. E 801-TCDV-10	
SUPERVISOR, ROADWAY STANDARDS	DATE
CHIEF ENGINEER	DATE

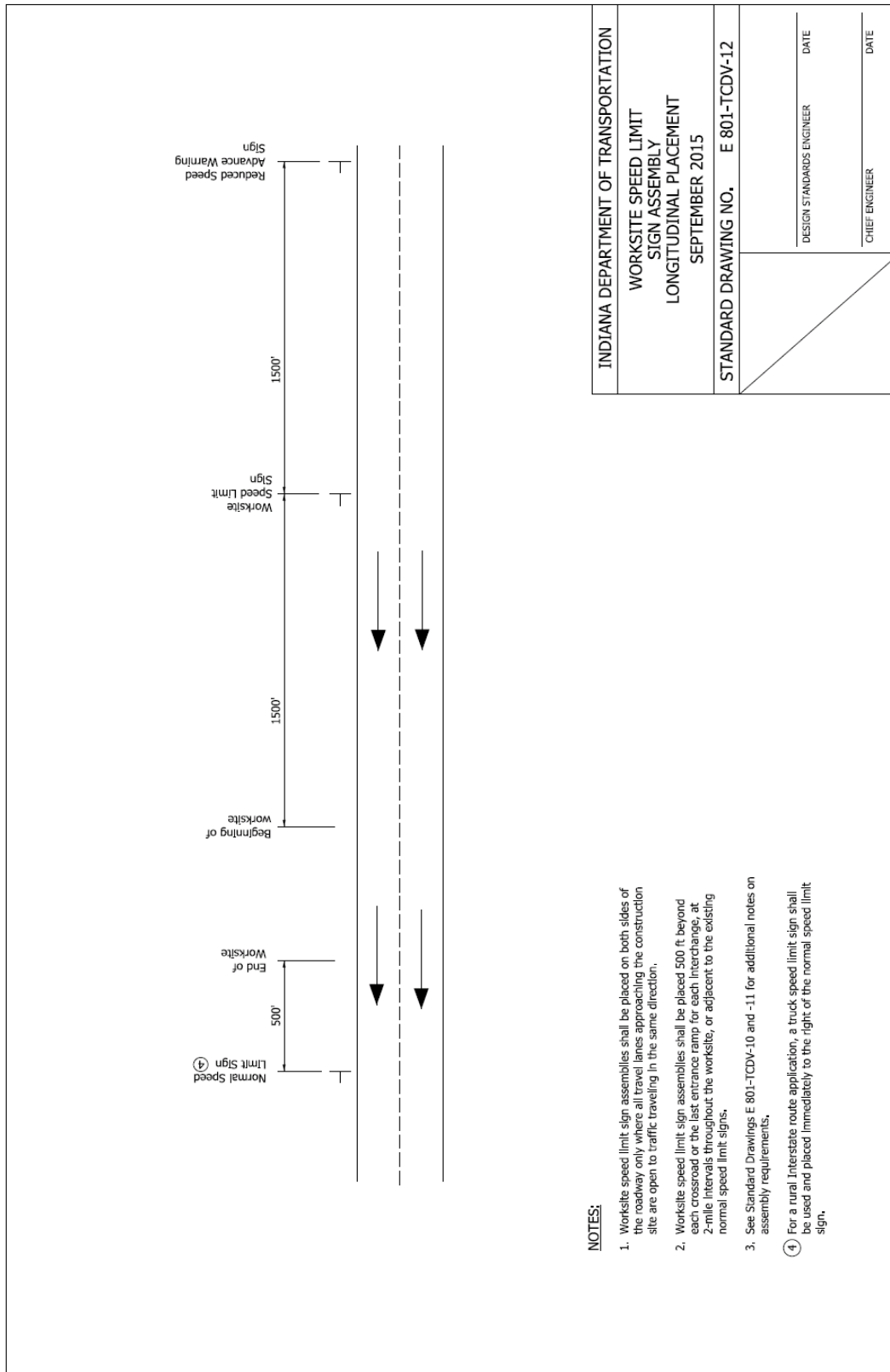
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-11 WORKSITE SPEED LIMIT SIGN ASSEMBLY (PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCDV-12 WORKSITE SPEED LIMIT SIGN ASSEMBLY LONGITUDINAL PLACEMENT
(PROPOSED DRAFT, SEE RPD 801-R-622d, BEGIN pg 80)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-TCLG-01 TRAFFIC CONTROL LEGEND AND GENERAL NOTES (WITH MARKUPS)

GENERAL NOTES

- ① Distances shown are typical except minimum distances may be varied based on field conditions.
2. The spacing of channelizing devices on tangents shall be as follows:
 - a. Where the posted speed limit is 50 m.p.h. or greater, the spacing shall be 100 ft.
 - b. Where the posted speed limit is less than or equal to 45 m.p.h., the spacing shall be 50 ft.
3. The spacing of channelizing devices on tapers shall be numerically equal in feet to the posted speed limit in mph.
4. The flashing arrow sign shall not be placed on a sidewalk. The flashing arrow sign shall be placed at a distance of L/3 from the beginning of the taper.
5. For temporary lane closures during daylight hours, cones or tubular markers may be used in lieu of drums.
6. Temporary pavement markings will not be required for temporary daylight lane closures.
7. Minimum pavement section for 1000 trucks per day or less shall consist of 165 #/syd of HMA Surface, on 330 #/syd of HMA Intermediate, on 935 #/syd of HMA Base, on 8 in subgrade treatment. If the truck count for the crossover is greater than 1000 trucks per day, the required pavement section will be provided elsewhere in the plans.

8. Temporary highway illumination, when specified, shall be as detailed elsewhere in the plans.
9. Once the crossovers have been removed, this line shall be re-striped yellow, if the pavement is to again be used for one-way traffic.
10. For Temporary Crossover Type B, this line shall be removed when the traffic pattern is switched.
11. The advisory speed plate will not be required when the existing posted speed limit is less than 55 mph.
12. Spacing of channelizing devices at this location shall be 20 ft.
13. The "Two-Way Traffic" (XW6-3B) and "Do Not Pass" (R4-1-B) signs shall alternate every 2840 ft throughout the two-lane two-way operation.
14. For a bridge contract, this distance may be adjusted by the Engineer as required. However, it shall be as close to the minimum as possible.
15. Once the crossovers have been removed, this line shall be re-striped broken white, if the pavement is to again be used for one way traffic.

LEGEND

●	Flagger	—	Temporary Pavement Marking
■	Work area	-*-	Removal of pavement markings and prismatic reflectors
⇌	Flashing arrow sign	⌈	Typical Sign Standard (Road Closure Sign Assembly)
●	Channelizing device	—	Type III-A or Type III-B Barricades as required
Ⓟ	Police car (optional)	⇌	Double Headed Flashing Arrow Sign
⊥	Construction sign and supports	→	Direction of Traffic
W =	Width of offset		

SURFACE AREA OF ONE TYPE A TEMPORARY CROSSOVER SYS	
MEDIAN WIDTH, ft	TYPE A
60	1208
50	1041
40	880
36	814
30	713
26	648

INDIANA DEPARTMENT OF TRANSPORTATION	
TRAFFIC CONTROL LEGEND AND GENERAL NOTES	
MARCH 2008	
STANDARD DRAWING NO. E 801-TCLG-01	
	Richard L. Vucelja 3-0-08 DATE DESIGN STANDARD ENGINEER
	Richard K. Snider 3-0-08 DATE CHIEF HIGHWAY ENGINEER

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
 801-TCLG-01 TRAFFIC CONTROL LEGEND AND GENERAL NOTES (PROPOSED DRAFT)

SURFACE AREA OF ONE TYPE A TEMPORARY CROSSOVER SYS	
MEDIAN WIDTH, ft	TYPE A
60	1208
50	1041
40	880
36	814
30	713
26	648

GENERAL NOTES

- 1 Distances shown are typical except minimum distances may be varied based on field conditions.
- 2 The spacing of channelizing devices shall be 100 ft where the posted speed limit is 50 m.p.h., or greater.
- 3 The spacing of channelizing devices shall be 50 ft where the posted speed limit is less than or equal to 45 m.p.h.
- 4 The spacing of channelizing devices on tapers shall be numerically equal in feet to the posted speed limit in m.p.h.
- 5 The flashing arrow sign shall not be placed on a sidewalk. The flashing arrow sign shall be placed at a distance of L/3 from the beginning of the taper, where L is the merge taper, see Standard Drawing 801-TCDV-03.
- 6 For temporary lane closures during daylight hours, cones or tubular markers may be used in lieu of drums.
- 7 Temporary pavement markings will not be required for temporary daylight lane closures.
- 8 Temporary highway illumination, when specified, shall be as detailed elsewhere in the plans.

9 Once the crossovers have been removed, this line shall be restriped yellow, if the pavement is to again be used for one-way traffic.

10 For Temporary Crossover Type B, this line shall be removed when the traffic pattern is switched.

11 The advisory speed plate will not be required when the existing posted speed limit is less than 55 mph.

12 Spacing of channelizing devices at this location shall be 20 ft.

13 The "Two-Way Traffic" (XW6-3B) and "Do Not Pass" (R4-1-3) signs shall alternate every 2640 ft throughout the two-lane two-way operation.

14 For a bridge contract, this distance may be adjusted by the Engineer as required. However, it shall be as close to the minimum as possible.

15 Once the crossovers have been removed, this line shall be restriped broken white, if the pavement is to again be used for one way traffic.

LEGEND

Flagger

Work area

Flashing arrow sign

Channelizing device

Police car (optional)

Construction sign and supports

W = Width of offset

Temporary Pavement Marking

Removal of pavement markings and prismatic reflectors

Typical Sign Standard (Road Closure Sign Assembly)

Type III-A or Type III-B Barricades as required

Double Headed Flashing Arrow Sign

Direction of Traffic

Low Intensity construction warning light, Type A

INDIANA DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL
LEGEND AND GENERAL NOTES**

SEPTEMBER 2015

STANDARD DRAWING NO. E 801-TCLG-01

DESIGN STANDARDS ENGINEER

DATE

CHIEF ENGINEER

DATE

REVISION TO SPECIAL PROVISIONS

801-R-542 WORKSITE ADDED PENALTY SIGNS (REVISED, June 04, 2015)

801-R-542 WORKSITE ADDED PENALTY SIGNS

(Revised ~~06-25-07~~05-21-15)

Worksite Added Penalty signs shall be placed as shown ~~in~~^{on} the plans or as directed by the Engineer. The signs shall typically be placed in advance of the first Road Construction Ahead signs at either end of the project. The actual location and quantity of the signs will be determined by the Engineer in coordination with the Worksite Traffic Control Supervisor.

The XW2-6-A Worksite Added Penalty sign, 78 in. by 42 in., shall be installed on all projects in all cases not otherwise described below.

The ~~XG20-7a "WORKSITE ADDED PENALTY SIGN, 60 x 36"~~XW2-6 Worksite Added Penalty sign, 60 in. by 36 in., shall only be installed on projects in urban areas that have a posted speed limit of 35 MPH or less and also meet one of the following conditions:

1. The existing surfaces outside the edge of pavement make installation of driven posts impractical, or
2. The width of the Right-of-Way outside of the edge of pavement is not sufficient to accommodate the larger ~~XG20-7 "WORKSITE ADDED PENALTY SIGN, 78 x 42"~~signXW2-6-A, Worksite Added Penalty sign, 78 in. by 42 in.

The ~~XG20-7b~~XW2-6a-B Speeding and ~~XG20-7c "WORKSITE ADDED PENALTY SIGNS, 48 x 48"~~XW2-6b-B Reckless Driving signs, 48 in. by 48 in., shall be used in series with each other and shall only be used on projects that meet one of the following conditions:

1. Rural projects where the width of the Right-of-Way outside of the edge of pavement is not sufficient to accommodate the larger ~~XG20-7 "WORKSITE ADDED PENALTY SIGN, 78 x 42"~~signXW2-6-A, Worksite Added Penalty sign, 78 in. by 42 in., or
2. Contracts using only moving operations where construction signs are set and removed each day to accommodate the changing location of the work.

~~The XG20-7 "WORKSITE ADDED PENALTY SIGN, 78 x 42" shall be installed on all projects in all cases not otherwise described above.~~

The XW2-6a-A Speeding and XW2-6b-A Reckless Driving signs, 36 in. by 36 in., shall be used in series with each other and shall only be used on projects in urban area where the width of the Right-of-Way outside of the edge of pavement is not sufficient to accommodate the larger XW2-6-A Worksite Added Penalty sign, 78 in. by 42 in.

Worksite Added Penalty signs will be measured and paid for as Construction Sign, Type C in accordance with 801.17 and 801.18.

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

INDEX			Eff for Lettings On or After 08-01-15
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1	Index	801-TCSN-11	
2	Traffic Control Signs Index and General Notes	801-TCSN-01 - 10	
3	Traffic Control Signs	801-TCSN 01 - 10	
4	Traffic Control Signs	801-TCSN 12 - 13	
5	Traffic Control Sign Design Details	801-TCSN 12 - 13	
6	Traffic Control Sign Design Details	801-TCSN 12 - 13	
7	Traffic Control Sign Design Details	801-TCSN 12 - 13	
8	Temporary Panel Sign Breakaway Post Installation	801-TCSN-14	
9	Wood Post Design for Temporary Panel Signs	801-TCSN-15	
10	Traffic Control Devices Index and General Notes	801-TCNV-02	
11	Channelizing Devices	801-TCNV-01	
12	Merging or Shifting Taper	801-TCNV-03	
13	Type III Barricade	801-TCNV-04	
14	Typical Construction Sign Mounting	801-TCNV-05	
15	Type III Barricade Application for Road Closure for Thru Traffic	801-TCNV-06	
16	Type III Barricade Application for Road Closure to All Traffic	801-TCNV-07	
17	U-Channel Steel Post Splice Detail	801-TCNV-08	
18	Temporary Buzz Strips	801-TCNV-09	
19	Worksite Speed Limit Sign Assembly for Intermittent Use	801-TCNV-10	
20	Worksite Speed Limit Sign Assembly for Continuous Use	801-TCNV-11	
21	Worksite Speed Limit Sign Assembly Longitudinal Placement	801-TCNV-12	
22	Traffic Control Legend and General Notes	801-TCLG-01	

INDIANA DEPARTMENT OF TRANSPORTATION

RPD E 801-R-622d
INDEX

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

INDEX	
SHEET NO.	SUBJECT
1	Index
2	Traffic Control Signs
3	Traffic Control Signs
4	Traffic Control Sign Design Details
5	Traffic Control Sign Design Details
6	Traffic Control Sign Design Details
7	Temporary Panel Sign Breakaway Post Installation
8	Wood Post Design For Temporary Panel Signs

GENERAL NOTES

1. The minimum vertical and horizontal clearances for construction signs shall be as shown on Sheet 14.
2. The minimum horizontal clearance for construction signs on curbed roadway sections shall be 2'-0" from the face of the curb to the near edge of the sign.
3. The minimum depth for wood or steel posts shall be 4 ft.
4. See Sheet 17 for U-Channel Steel Post Splice Detail.

Eff. for Lettings On or After 08-01-15

INDIANA DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL SIGNS INDEX AND GENERAL NOTES
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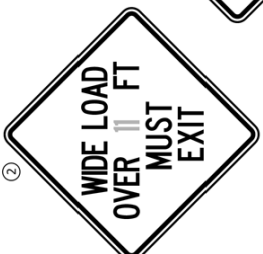
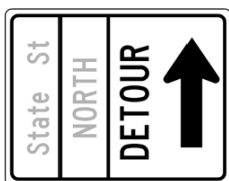
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

Eff. for Lettings On or After 08-01-15	
NOTES: - See Sheet 2 for general notes. - Sign shall be removed, covered, or turned to face away from the roadway during non-working hours. - Sign may be ordered to read "500 FT", "1000 FT", or "1500 FT" in conjunction with the indicated sign. Such signs may be used in place of, or in conjunction with the indicated sign. - Shaded text indicates message content that must be varied to reflect site conditions.	INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SIGNS (1 of 2)
③ ROAD CONSTRUCTION AHEAD XW20-1 XW20-1-A ② MOWING CREWS AHEAD XW21-4a XW21-5a-A ② MOWING CREWS NEXT 5 MILES XW21-8b XW21-8b-A ④ ROAD REPAIRS NEXT 5 MILES XW20-1a WATCH FOR STOPPED TRAFFIC XW103-1 SPEEDING MAX \$1000 RECKLESS DRIVING MAX 8 YRS XW2-6 XW2-6-A SPEEDING MAX \$1000 XW2-6a XW2-6a-A XW2-6a-B RECKLESS DRIVING MAX 8 YRS XW2-4b XW2-6b-A XW2-6b-B	END CONSTRUCTION XG20-2 OVERHEAD SIGN INSTALLATION XW3-45
E 801-R-622d 3 of 22	

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

Eff. for Lettings On or After 08-01-15	
NOTES: 1. See Sheet 2 for general notes. ② Shaded text indicates message content that must be varied to reflect site conditions.  XW105-1-A  XW20-YWR(A)  XW20-YWR(B)  XW20-YWL(C)  XW106-2-A  XW106-1-A  XH4-9d  XH4-9e  XW109-1	INDIANA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SIGNS (2 of 2)

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22
SHEETS, plus INDEX)

Eff. for Lettings On or After 08-01-15

SIGN NUMBER	SIGN CODE	SIGN MESSAGE	POST DESIGN	SIGN SIZE	SIGN COLOR	BORDER WIDTH	MARGIN	LETTER HEIGHT	LETTER HEIGHT	WORD OR LINE	CORNER RADIUS	MO. OF POSTS	
R2-1	R2-1	Speed Limit	4 x 4	30	White							1	2
R2-1B	R2-1	Speed Limit	4 x 4	30	White							X	X
R2-2-A (R or L)	R2-2	(Movement Prohibition)	*	A	30 X 30	White							
R2-2-C (R or L)	R2-2	(Movement Prohibition)	*	A	30 X 30	White							
R4-1	R4-1	Do Not Pass	*	A	48 X 48	White							
R4-1B	R4-1	Do Not Pass	*	A	48 X 48	White							
R5-1-A	R5-1	Do Not Enter	*	A	36 X 36	Red							
R5-1-B	R5-1	Do Not Enter	*	A	48 X 48	Red							
R6-1 (R or L)	R6-1	One Way (Inside White Arrow)	*	A	36 X 36	White							
R6-2-A (R or L)	R6-2	One Way (Above White Arrow)	*	A	24 X 30	Black & White							
R11-2	R11-2	Road Closed	*	A	48 X 30	White							
R11-3	R11-3	Road Closed	*	A	48 X 30	White							
R11-4	R11-4	Road Closed to Traffic	*	A	60 X 30	White							
R12-1	R12-1	Weight Limit	*	A	24 X 30	White							
R12-1A	R12-1	Weight Limit	*	A	36 X 48	White							
S4-4	S4-4	When Flashing	*	A	48 X 20	White							
XW1-1-A (R or L)	W1-1	(Turn Symbol)	*	A	36 X 36	Orange							
XW1-2-A (R or L)	W1-1	(Turn Symbol)	*	A	48 X 48	Orange							
XW1-2-B (R or L)	W1-2	(Curve Symbol)	*	A	36 X 36	Orange							
XW1-3-A (R or L)	W1-3	(Reverse Turn Symbol)	*	A	48 X 48	Orange							
XW1-3-B (R or L)	W1-3	(Reverse Turn Symbol)	*	A	36 X 36	Orange							
XW1-4-A (R or L)	W1-4	(Reverse Curve Symbol)	*	A	48 X 48	Orange							
XW1-4-B (R or L)	W1-4	(Reverse Curve Symbol)	*	A	36 X 36	Orange							
XW1-5	W1-5	(Single Headed Arrow)	*	B	48 X 24	Orange							
XW1-5-A	W1-5	(Single Headed Arrow)	*	B	60 X 30	Orange							
XW2-6	XW2-6	Worksite Added Penalty	*	B	60 X 36	Orange							
XW2-6-A	XW2-6	Worksite Added Penalty	*	B	78 X 42	Orange							
XW2-6a	XW2-6a	Speeding Max \$1000	*	A	30 X 30	Orange							
XW2-6a-A	XW2-6a	Speeding Max \$1000	*	A	36 X 36	Orange							
XW2-6a-B	XW2-6a	Speeding Max \$1000	*	A	48 X 48	Orange							
XW2-6b	XW2-6b	Reckless Driving Max 8 Yrs	*	A	30 X 30	Orange							
XW2-6b-A	XW2-6b	Reckless Driving Max 8 Yrs	*	A	36 X 36	Orange							
XW2-6b-B	XW2-6b	Reckless Driving Max 8 Yrs	*	A	48 X 48	Orange							

*Wood post permitted.

NOTES:

- ① Spacing between letters of word or line shall be reduced by percentage as shown.
2. See Standard Drawing Sheet 2 for general notes.
3. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS
(1 of 3)

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS
801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22
SHEETS, plus INDEX)

Eff. for Lettings On or After 08-01-15

SIGN NUMBER	PLAT/CD CODE	SIGN MESSAGE	POST DESIGN 4 X 4 WOOD	SIGN SIZE	SIGN COLOR BACKGROUND COPY	ROUNDER WIDTH	MARGIN WIDTH	LETTER HEIGHT	LETTER HEIGHT	LETTER HEIGHT	WORD OR LINE PCT.	CORNER RADIUS PCT.	NO. OF POSTS	
								SERIES - LINE 1 SERIES - LINE 2 SERIES - LINE 3	SERIES - LINE 1 SERIES - LINE 2 SERIES - LINE 3	SERIES - LINE 1 SERIES - LINE 2 SERIES - LINE 3				
XW3-4S	-	Overhead Sign Installation	* B	60 X 24	Orange	Black	1/2	3/8	6 - Series C	See FHWA publication Standard Highway Signs for fabrication details	1 1/2		1	2
XW3-5A	W3-5	(Reduced Speed Limit Ahead)	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW3-5B	W3-5	(Reduced Speed Limit Ahead)	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW3-5A	W3-5	(Reduced Speed Limit Ahead)	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW3-5B	W3-5	(Reduced Speed Limit Ahead)	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW4-2 (R or L)	W4-2	(Lane Ends Merge) _____	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW4-2 (R or L)	W4-2	(Lane Ends Merge) _____	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW6-2A	W6-2	(Divided Highway Ends Symbol)	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW6-2B	W6-2	(Divided Highway Ends Symbol)	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-1A	W8-1	Bump	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-1B	W8-1	Bump	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-2A	W8-2	Dip	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-2B	W8-2	Dip	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-3A	W8-3	Pavement Ends	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-3B	W8-3	Pavement Ends	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-4A	W8-4	Shift Shoulder	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-4B	W8-4	Shift Shoulder	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-5A	W8-5	Truck Crossing	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW8-5B	W8-5	Truck Crossing	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW9-1A (R or L)	W9-1	Lane Ends	* A	36 X 36	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW9-1B (R or L)	W9-1	Lane Ends	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW9-2B (R or L)	W9-2	Lane Ends Merge	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW12-1-C	W12-1	Double Arrow	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW13-1-A	W13-1	Advisory Speed Plaque	* A	36 X 36	Orange	Black	1 1/4	3/4	7 - Series C	See FHWA publication Standard Highway Signs for fabrication details			-	-
XW20-1	W20-1	Road Construction Ahead	* B	48 X 48	Orange	Black	1 1/2	1	8 - Series C	Construction	25	3	X	X
XW20-1A	W20-1	Road Construction Ahead	* A	60 X 60	Orange	Black	1 1/2	1	8 - Series C	Construction	25	3	X	X
XW20-1B	W20-1	Road Construction Ahead	* B	48 X 48	Orange	Black	1 1/4	3/4	8 - Series C	Construction	25	3	X	X
XW20-2	W20-2	Road Repair's Next _____ Miles	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW20-3	W20-3	One Lane Road Ahead	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW20-4	W20-4	One Lane Road Ahead	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW20-5 (R, C, or L)	W20-5	Lane Closed Ahead	* B	48 X 48	Orange	Black			See FHWA publication Standard Highway Signs for fabrication details				X	X
XW20-7	W20-7	Flagger Symbol	* B	48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	See FHWA publication Standard Highway Signs for fabrication details			3	X
XW20-7A(B)	-	Wide Load Restriction _____ Miles	* B	48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series D	6 - Series C	6 - Series D	3	X
XW20-7B(B)	-	Wide Load Over _____ ft. Must Exit	* B	48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series D	6 - Series C	6 - Series D	3	X
XW20-7B(C)	-	No Loads Over _____ ft. Wide	* B	48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D	6 - Series D	6 - Series D	3	X

*Wood post permitted.

NOTES:

- ① Spacing between letters of word or line shall be reduced by percentage as shown.
- 2. See Sheet 2 for general notes.
- 3. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS
(2 of 3)

E 801-R-622d 6 of 22

NOTES:

- ① Spacing between letters of word or line shall be reduced by percentage as shown.
2. See Sheet 2 for general notes.
3. All dimensions are in inches.

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

SIGN NUMBER	BUILT/CODE	SIGN MESSAGE	POST DESIGN 4 X 4 STEEL	SIGN SIZE	SIGN COLOR	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT LINE 1 SERIES - LINE 3	LETTER HEIGHT LINE 2 SERIES - LINE 3	WORD OR LINE	PCT.	CORNER RADIUS	NO. OF POSTS
W01-1 Workers Symbol	W01-1 Workers Symbol		A	36 X 36	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					1
W01-2 Fresh Oil	W01-2 Fresh Oil		A	36 X 36	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					2
W01-3 Road Machinery Ahead	W01-3 Road Machinery Ahead		B	48 X 48	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					X
W01-4 Road Work Ahead	W01-4 Road Work Ahead		B	48 X 48	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					X
W01-5 Shoulder Work	W01-5 Shoulder Work		A	36 X 36	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					X
W01-7 Utility Work Ahead	W01-7 Utility Work Ahead		A	36 X 36	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					X
W01-7-1 Utility Work Ahead	W01-7-1 Utility Work Ahead		A	36 X 36	Orange Black	Back		See FHWA publication Standard Highway Signs for fabrication details					X
W01-8 Moving Crews Ahead	W01-8 Moving Crews Ahead		B	48 X 48	Orange Black	3/4	1/2	6 - Series C	6 - Series C			2 1/4	X
W01-8-1 Moving Crews Ahead	W01-8-1 Moving Crews Ahead		B	48 X 48	Orange Black	1 1/4	3/4	8 - Series C	8 - Series C			3	X
W01-9 Moving Crews Ahead	W01-9 Moving Crews Ahead	Miles	B	48 X 48	Orange Black	1 1/4	3/4	8 - Series C	8 - Series C	4 - Series C		2 1/4	X
W01-10 Moving Crews Ahead	W01-10 Moving Crews Ahead	Miles	B	48 X 48	Orange Black	1 1/4	3/4	8 - Series C	8 - Series C	6 - Series C		2 1/4	X
W01-11 Waiting for Stopped Traffic	W01-11 Waiting for Stopped Traffic		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C	6 - Series C		3	X
W01-13-1 Road Construction Ahead	W01-13-1 Road Construction Ahead		B	60 X 36	Orange Black	3/4	1/2	6 - Series C	6 - Series C			2 1/4	X
G00-1 Road Construction Ahead	G00-1 Road Construction Ahead	Miles	B	60 X 24	Orange Black	1/2	3/8	6 - Series C	6 - Series C			1 1/2	X
G00-2 End Road Work	G00-2 End Road Work		B	48 X 18	Orange Black			See FHWA publication Standard Highway Signs for fabrication details					X
G00-3 Plac Car Follow Me	G00-3 Plac Car Follow Me		B	36 X 18	Orange Black			See FHWA publication Standard Highway Signs for fabrication details					-
G00-5 (Route Number or Lane Closed On or After)	G00-5 (Route Number or Lane Closed On or After)		B	60 X 36	Orange Black	3/4	1/2	6 - Series C	6 - Series C			2 1/4	X
G00-6 (Lane Restrictions On or After)	G00-6 (Lane Restrictions On or After)		B	48 X 16	Orange Black	1/2	3/8	6 - Series C	6 - Series C			1 1/2	X
W00-5A Lane Restrictions On or After	W00-5A Lane Restrictions On or After		B	60 X 36	Orange Black	3/4	1/2	5 - Series C	5 - Series C			2 1/4	X
W00-5B Detour (Above Black Arrow)	W00-5B Detour (Above Black Arrow)		B	72 X 36	Orange Black	7/8	5/8	6 - Series C	6 - Series C	4 - Series C		1 1/8	X
MH-9 Detour (Below Black Arrow)	MH-9 Detour (Below Black Arrow)		A	30 X 24	Orange Black			See FHWA publication Standard Highway Signs for fabrication details					X
MH-9 Detour (Above Black Arrow)	MH-9 Detour (Above Black Arrow)		B	48 X 36	Orange Black			See FHWA publication Standard Highway Signs for fabrication details					X
MH-9 Detour (Below Black Arrow)	MH-9 Detour (Below Black Arrow)		B	48 X 36	Orange Black	1/2	3/8	4 - Series C	6 - Series C	1	30	1 1/2	X
MH-9 Detour (Above Black Arrow)	MH-9 Detour (Above Black Arrow)		B	L X 48	Orange Black	1/2	3/8	4 - Series C	6 - Series C	1	30	1 1/2	X
MH-10 Detour (Inside Orange Arrow)	MH-10 Detour (Inside Orange Arrow)		B	48 X 18	Black & Orange Black			See FHWA publication Standard Highway Signs for fabrication details					X
MH-10 Detour (Outside Orange Arrow)	MH-10 Detour (Outside Orange Arrow)		B	48 X 18	Black & Orange Black	1 1/4	3/4	6 - Series C	6 - Series C			3	X
MH-10 Detour (Right Lane Exit Open)	MH-10 Detour (Right Lane Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Left Lane Exit Open)	MH-10 Detour (Left Lane Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C			3	X
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MH-10 Detour (Both Lanes Exit Open)	MH-10 Detour (Both Lanes Exit Open)		B	48 X 48	Orange Black	1 1/4	3/4	7 - Series C	7 - Series C				

*Wood not permitted.

NOTES:

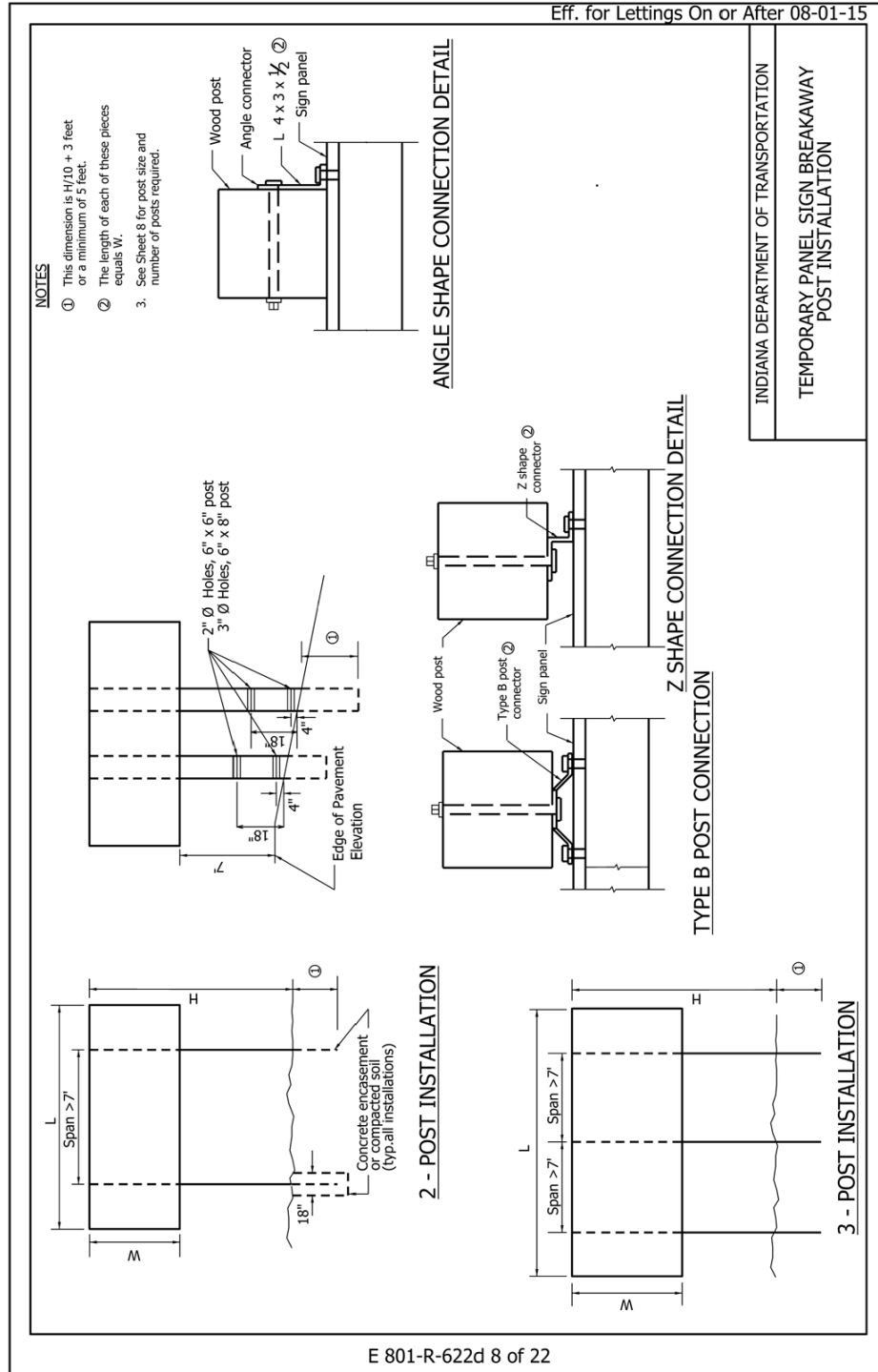
- ① Spacing between letters of word or line shall be reduced by percentage as shown.
2. See Sheet 2 for general notes.
3. All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS
(3 of 3)

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

Eff. for Lettings On or After 08-01-15

SIGN LENGTH, L (FT) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> SIGN WIDTH, W (FT) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> 2-6" X 6" 2-6" X 8" 3-6" X 8"																8	9	10	11	12	13	14	15	16	17	18	19	20	4													5													6													7													8													9													10													11													12													13													14													15													16													8	9	10	11	12	13	14	15	16	17	18	19	20																																																																																																																																																																																							INDIANA DEPARTMENT OF TRANSPORTATION WOOD POST DESIGN FOR TEMPORARY PANEL SIGNS
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E 801-R-622d 9 of 22

NOTES:

1. No more than one post can be located in a 7 foot wide path.

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

Eff. for Lettings On or After 08-01-15

GENERAL NOTES:

1. Unless otherwise specified, channelizing devices shall be spaced as shown on Sheet 21.
2. All channelizing devices shall meet NCHRP 350 or MASH crash evaluation criteria.
3. It is not necessary to delineate a drop-off of 3 in. or less adjacent to active travel lanes. Where channelizing devices are used to delineate drop-offs of 3 in. or less adjacent to active travel lanes, at least 33 in. of the device shall be above the adjoining pavement surface. Where channelizing devices are used to delineate a drop-off greater than 3 in. adjacent to active travel lanes, at least 27 in. of the device shall be above the adjoining pavement surface and a Type C warning light shall be attached to the top of the device (on the pavement side). In no case shall more than 9 in. of the device be below the adjoining pavement surface.
4. The proper orientation in respect to approaching vehicular traffic shall be maintained on channelizing devices. Drums are the preferred channelizing device in a tight radius curve and at intersections.

INDEX	
SHEET NO.	SUBJECT
9	Index
10	Channelizing Devices
11	Merging or Shifting Taper
12	Type III Barricade
13	Typical Construction Sign Mounting
14	Type III Barricade Application for Road Closure for Thru Traffic
15	Type III Barricade Application for Road Closure to All Traffic
16	U Channel Steel Post Splice Detail
17	Temporary Buzz Strips
18	Worksite Speed Limit Sign Assembly for Intermittent Use
19	Worksite Speed Limit Sign Assembly for Continuous Use
20	Worksite Speed Limit Sign Assembly Longitudinal Placement

LEGEND

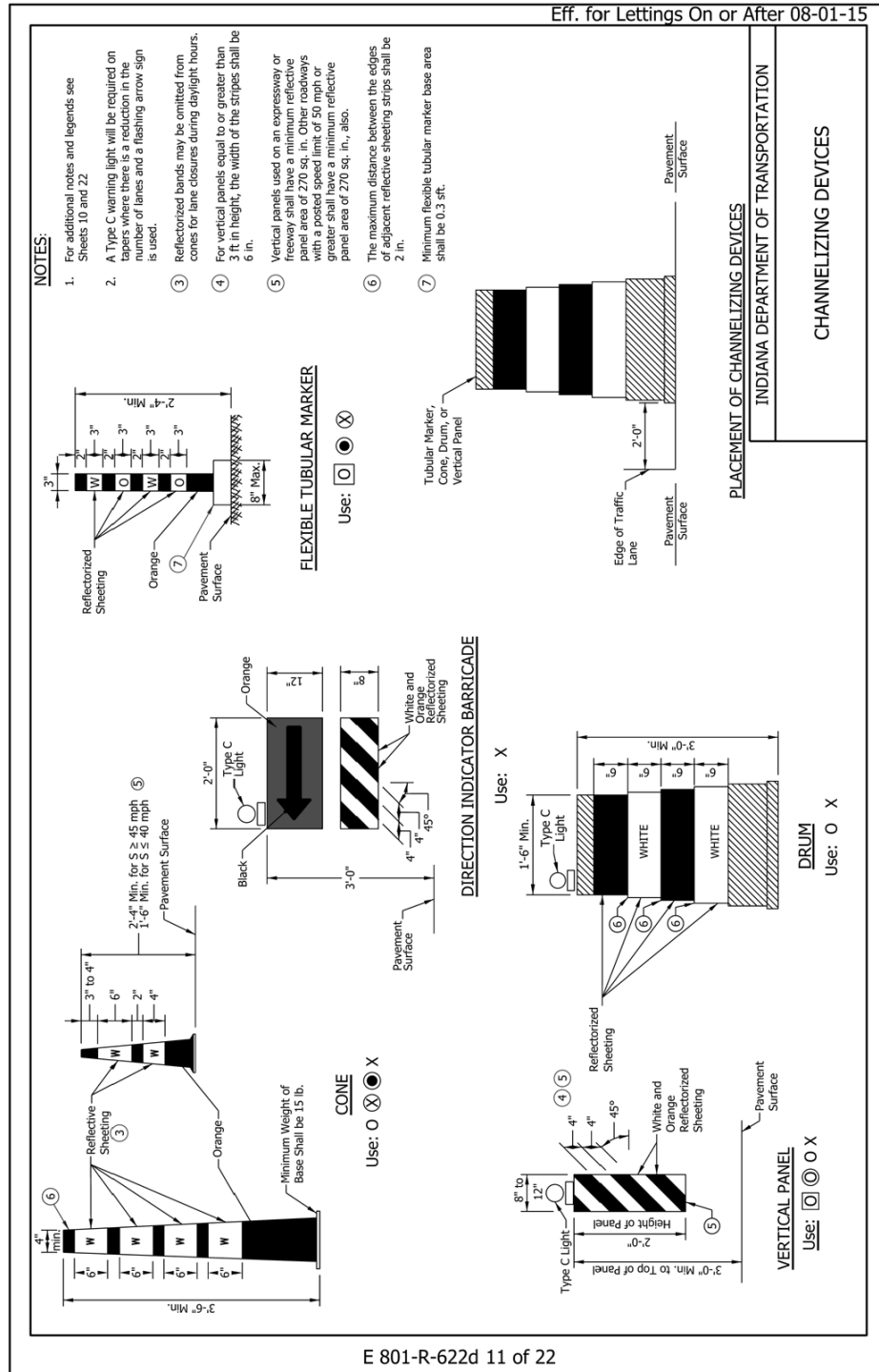
- - Device may be used in tangent set-ups.
- X - Device may be used in tangent set-ups.
- ⊗ - Devices may be used in two-way traffic set-ups to divide opposing lanes of traffic.
- - Device may be used to divide two or more lanes of traffic in the same direction.
- ⦶ - Device may be used to replace barricades and drums where space is limited.
- - Device may be used to delineate edge of pavement drop-off where space is limited.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DEVICES
INDEX AND GENERAL NOTES

REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

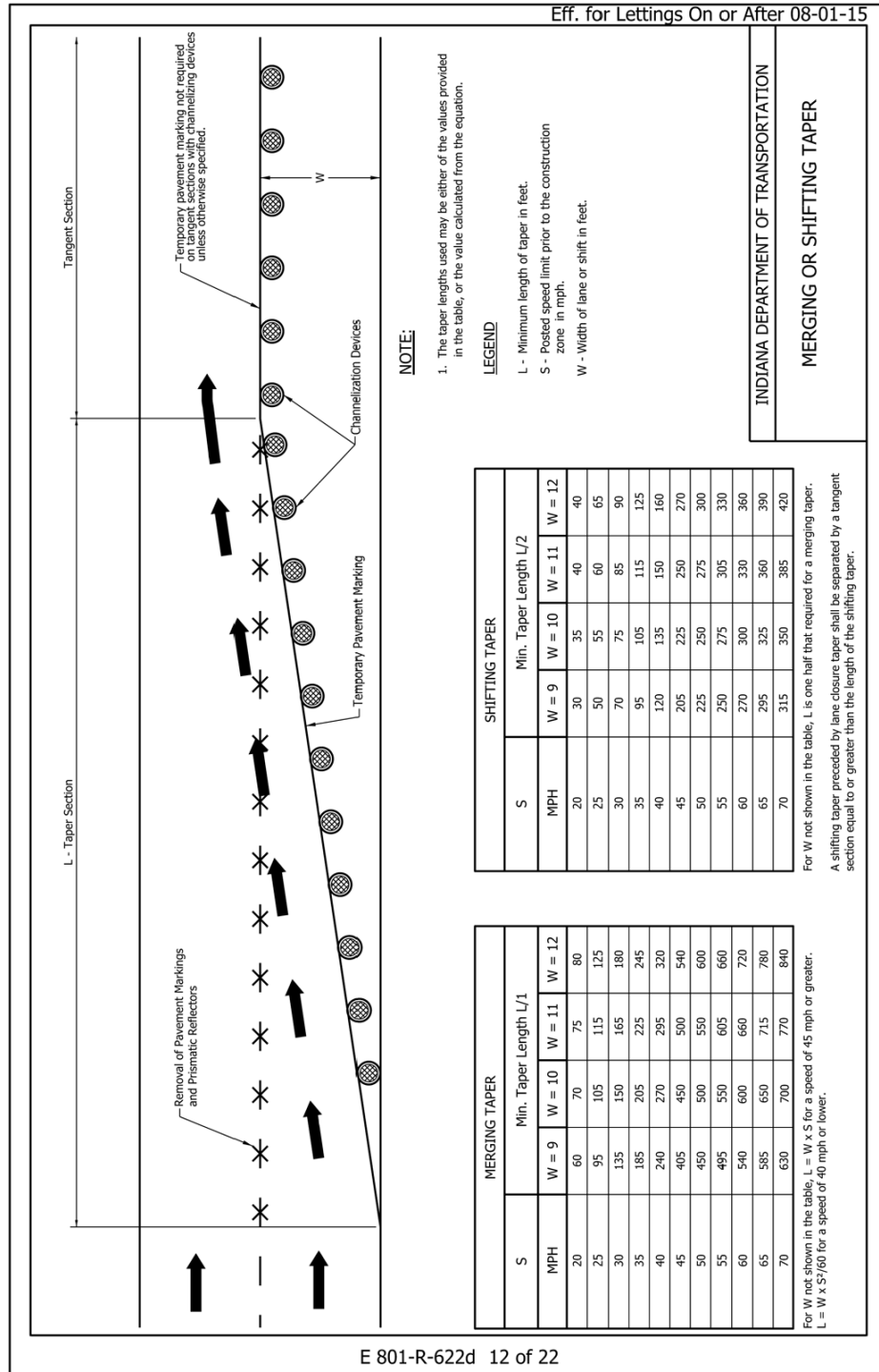
801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



E 801-R-622d 11 of 22

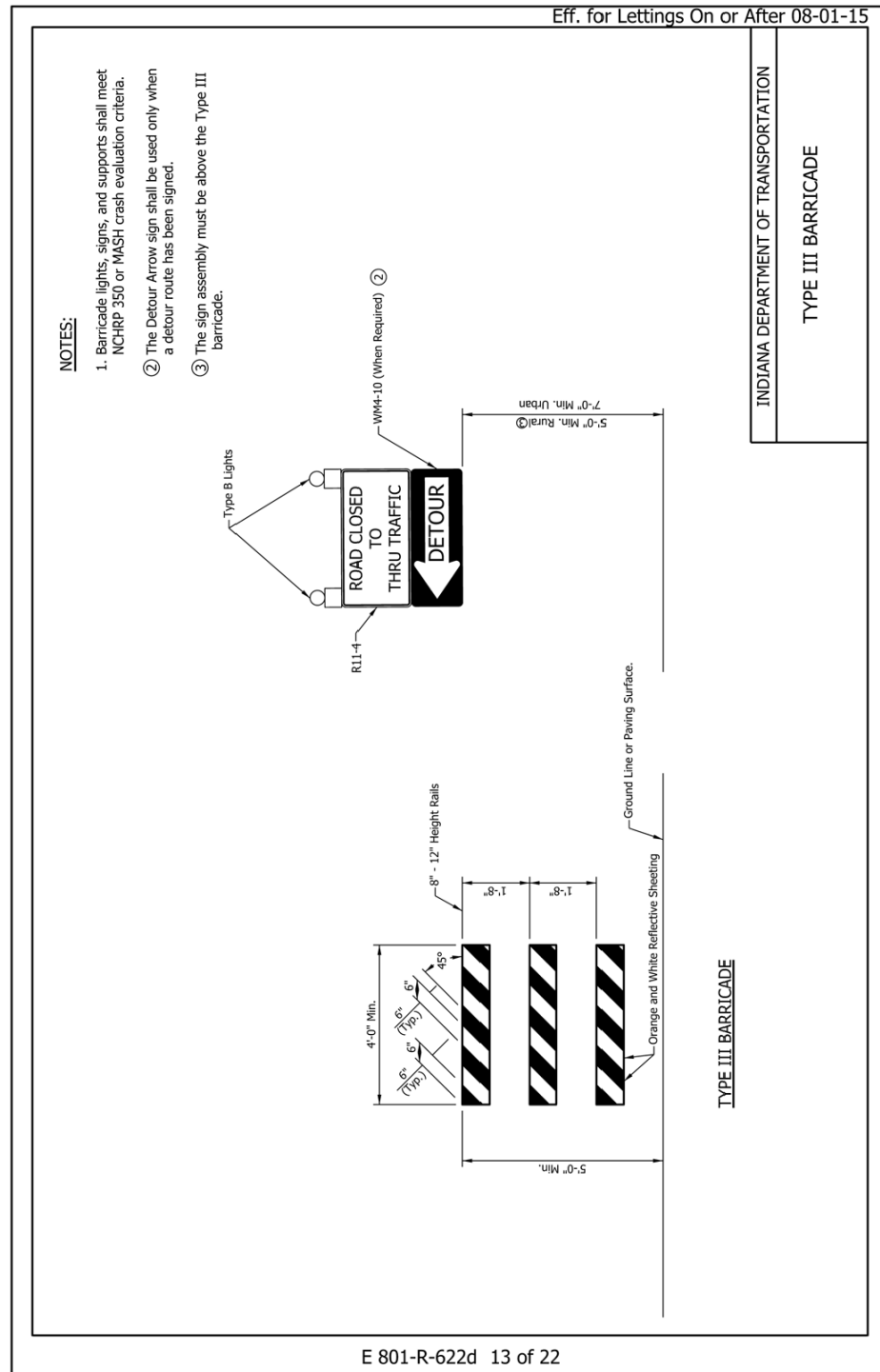
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



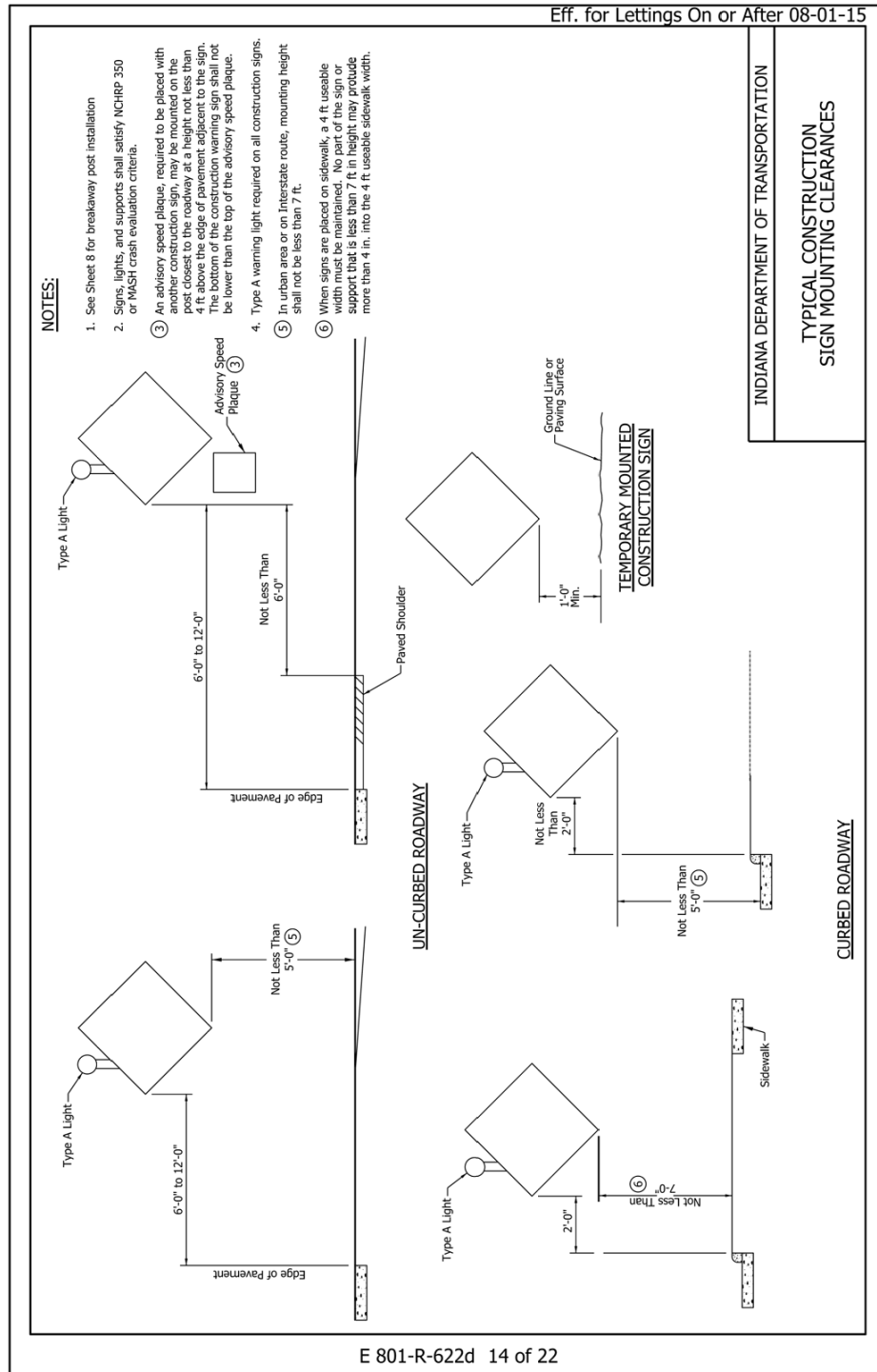
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



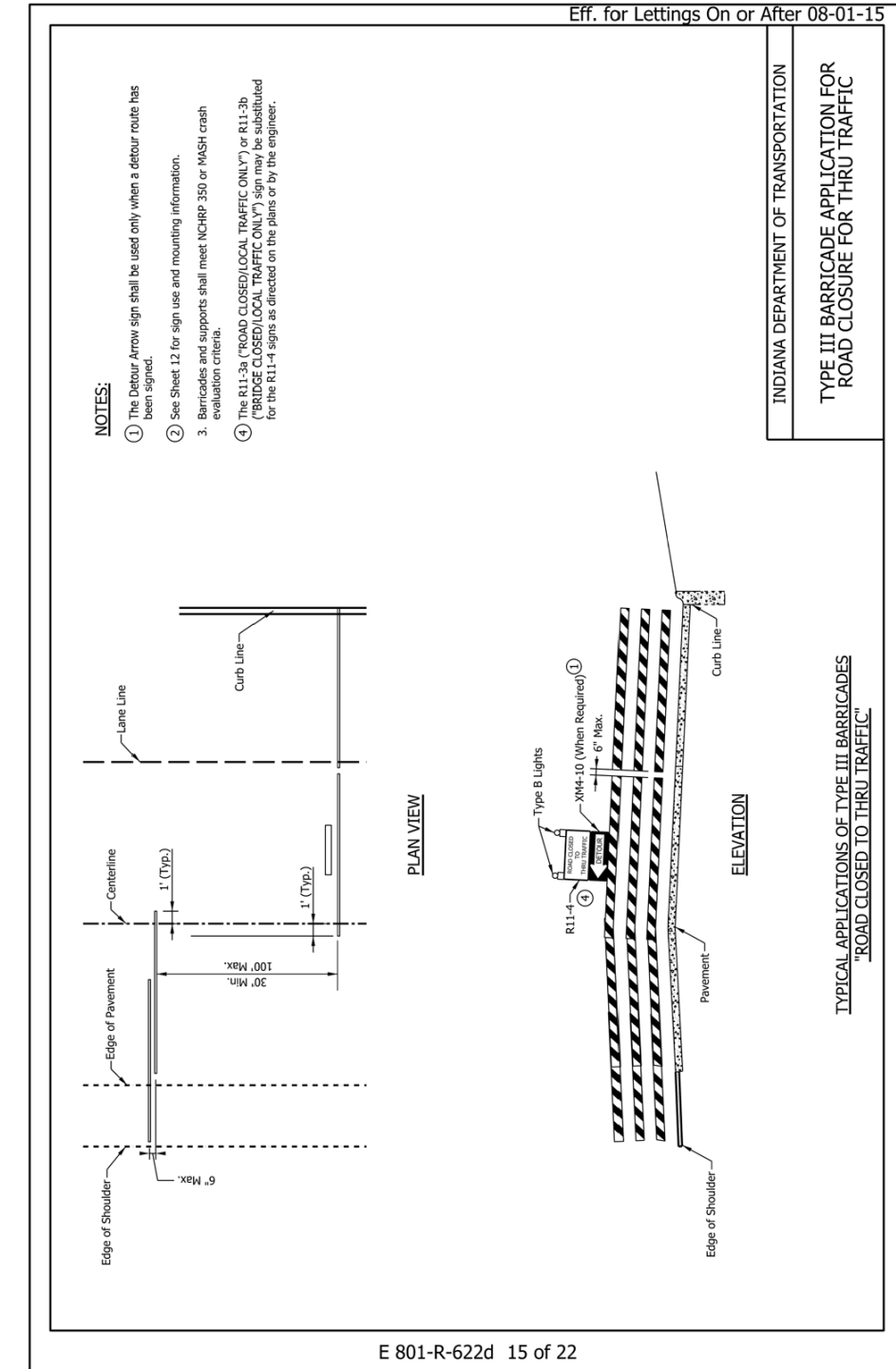
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



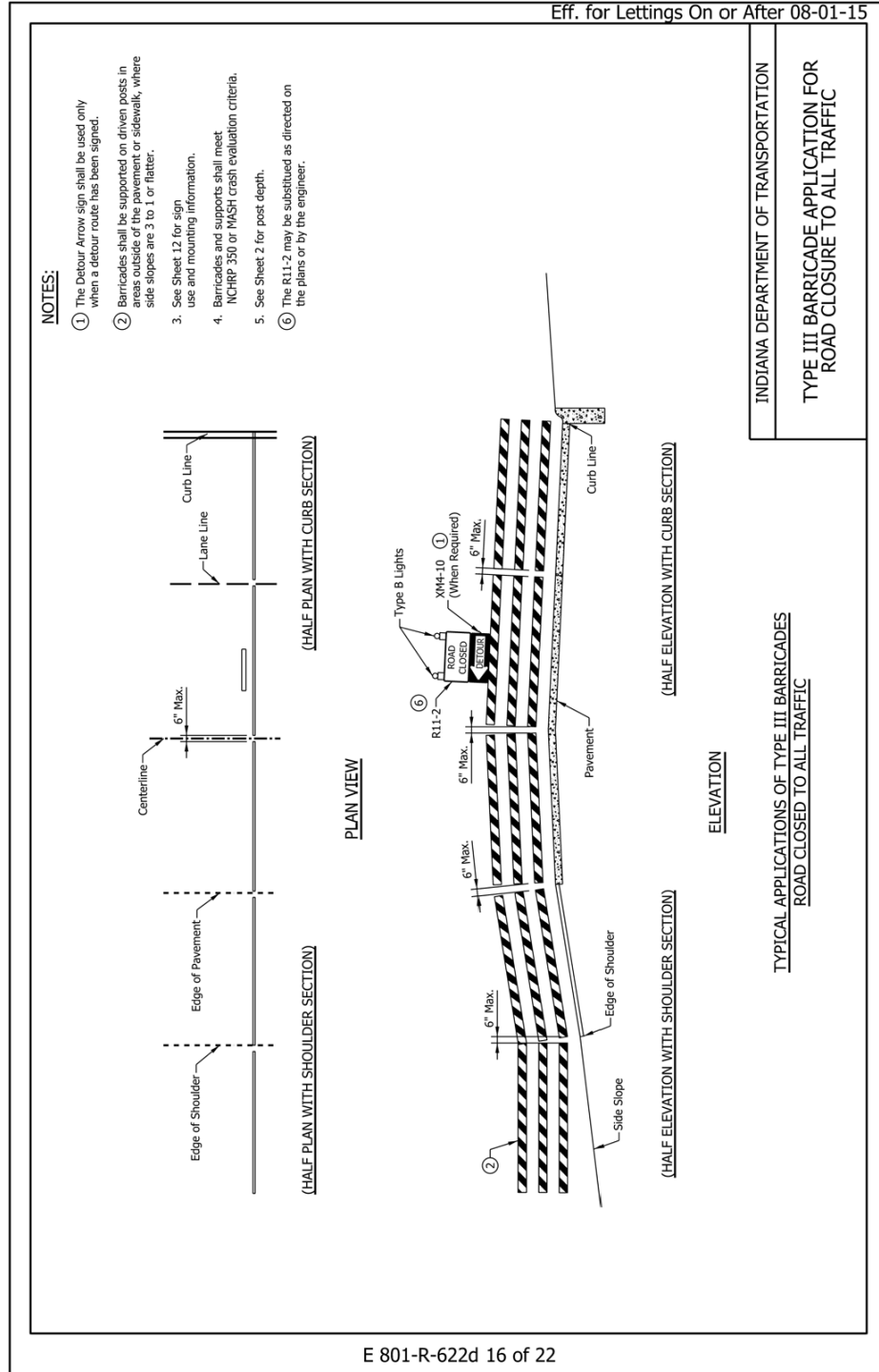
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801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



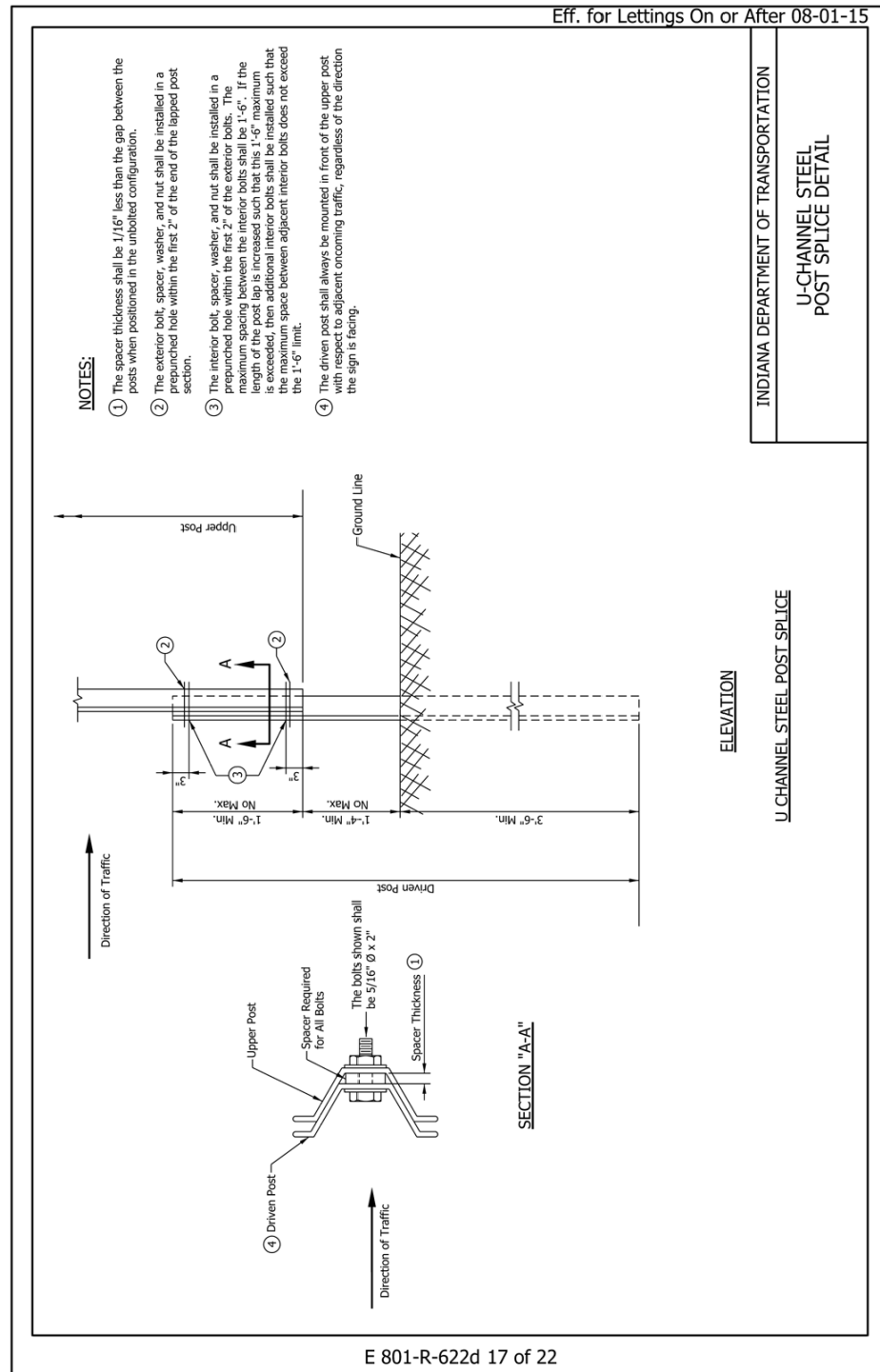
REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



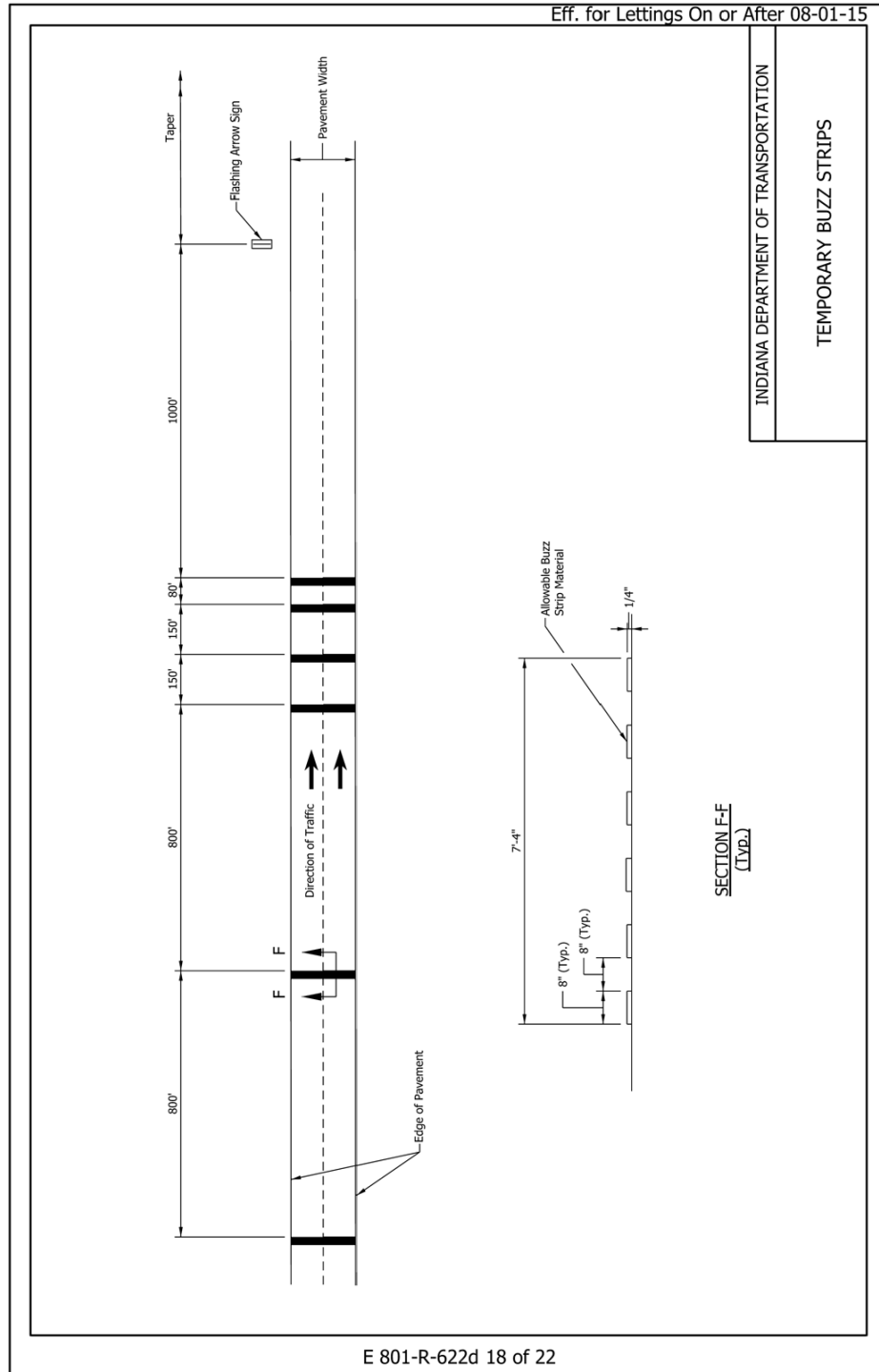
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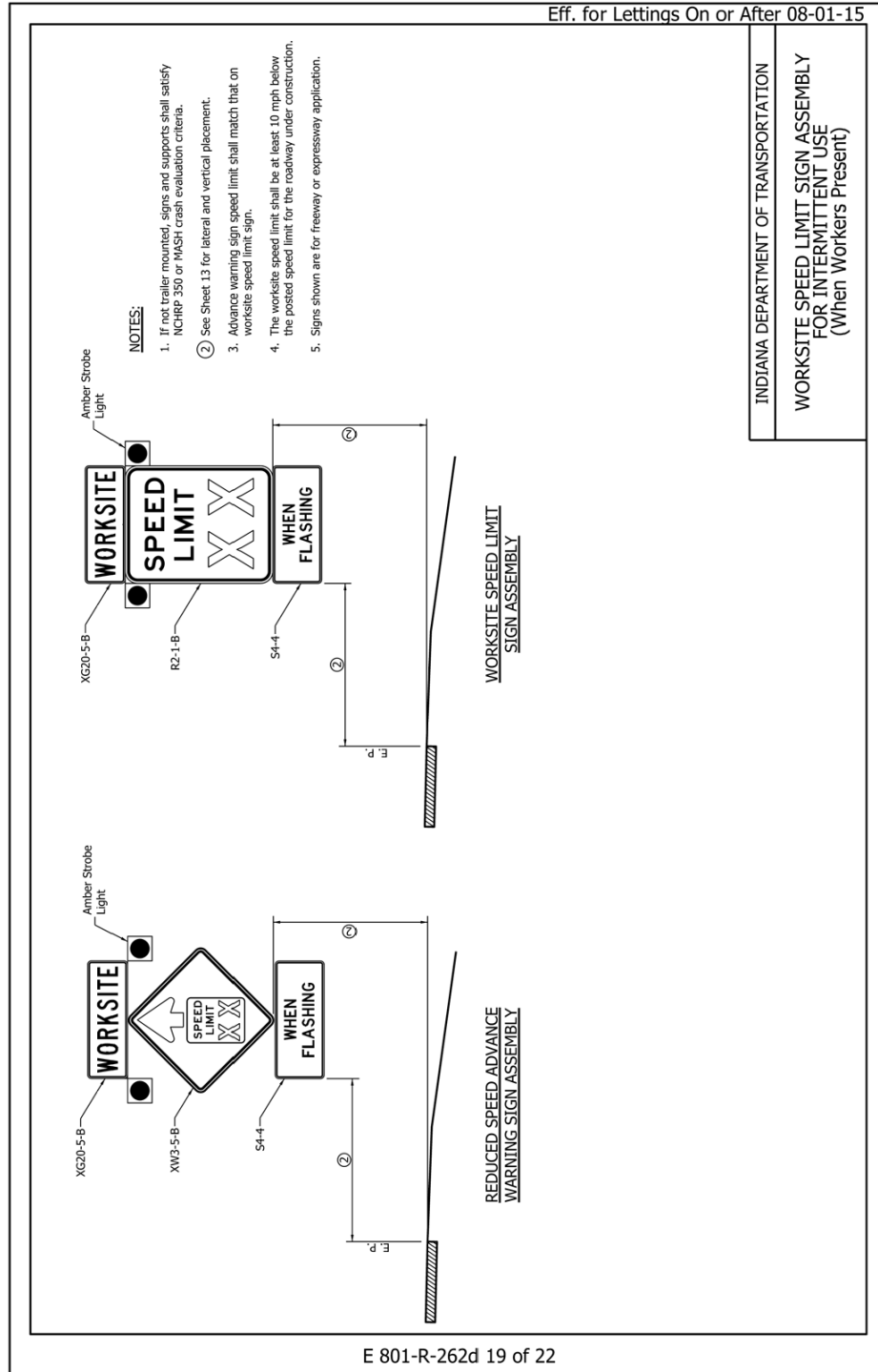
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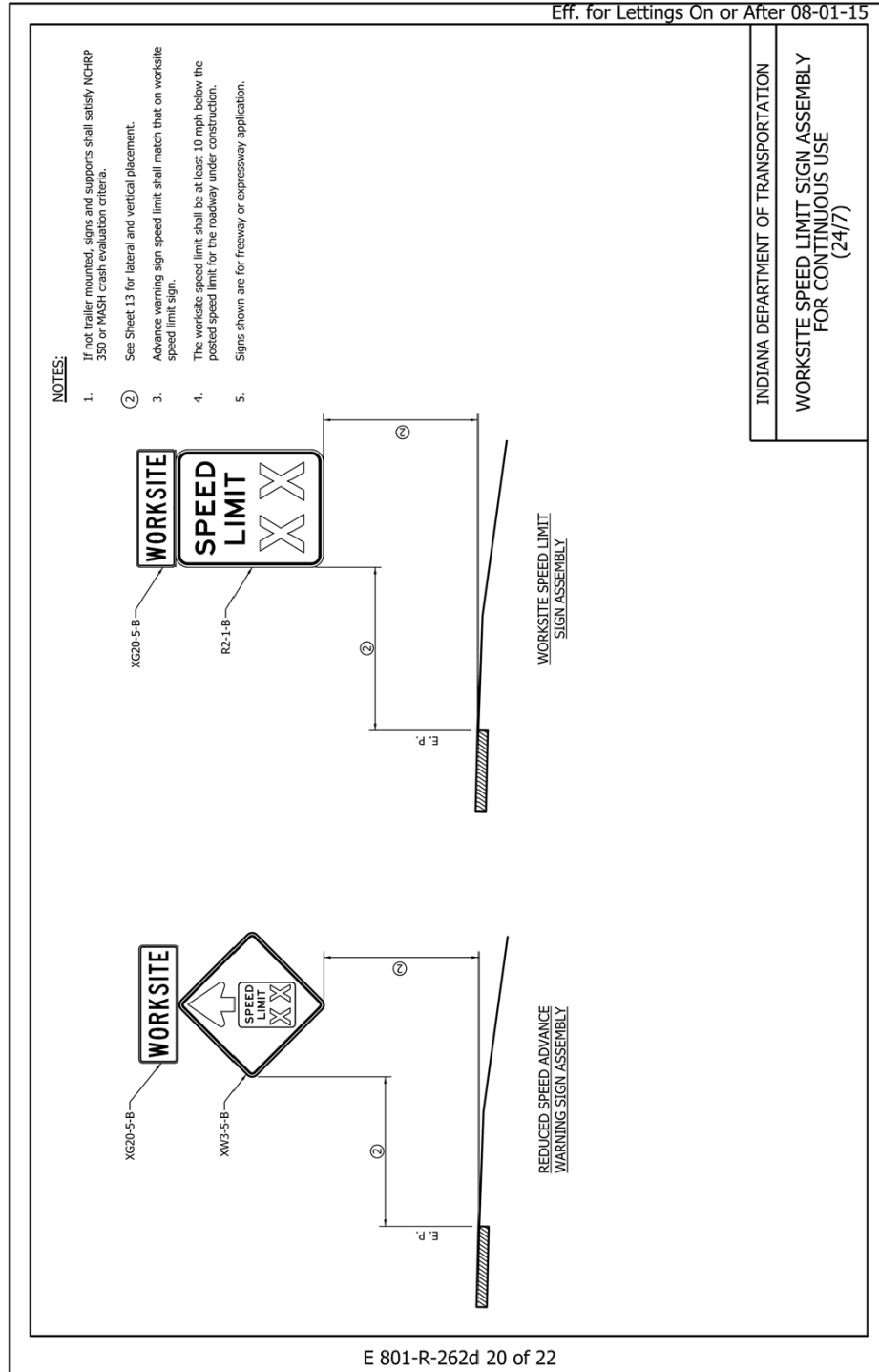
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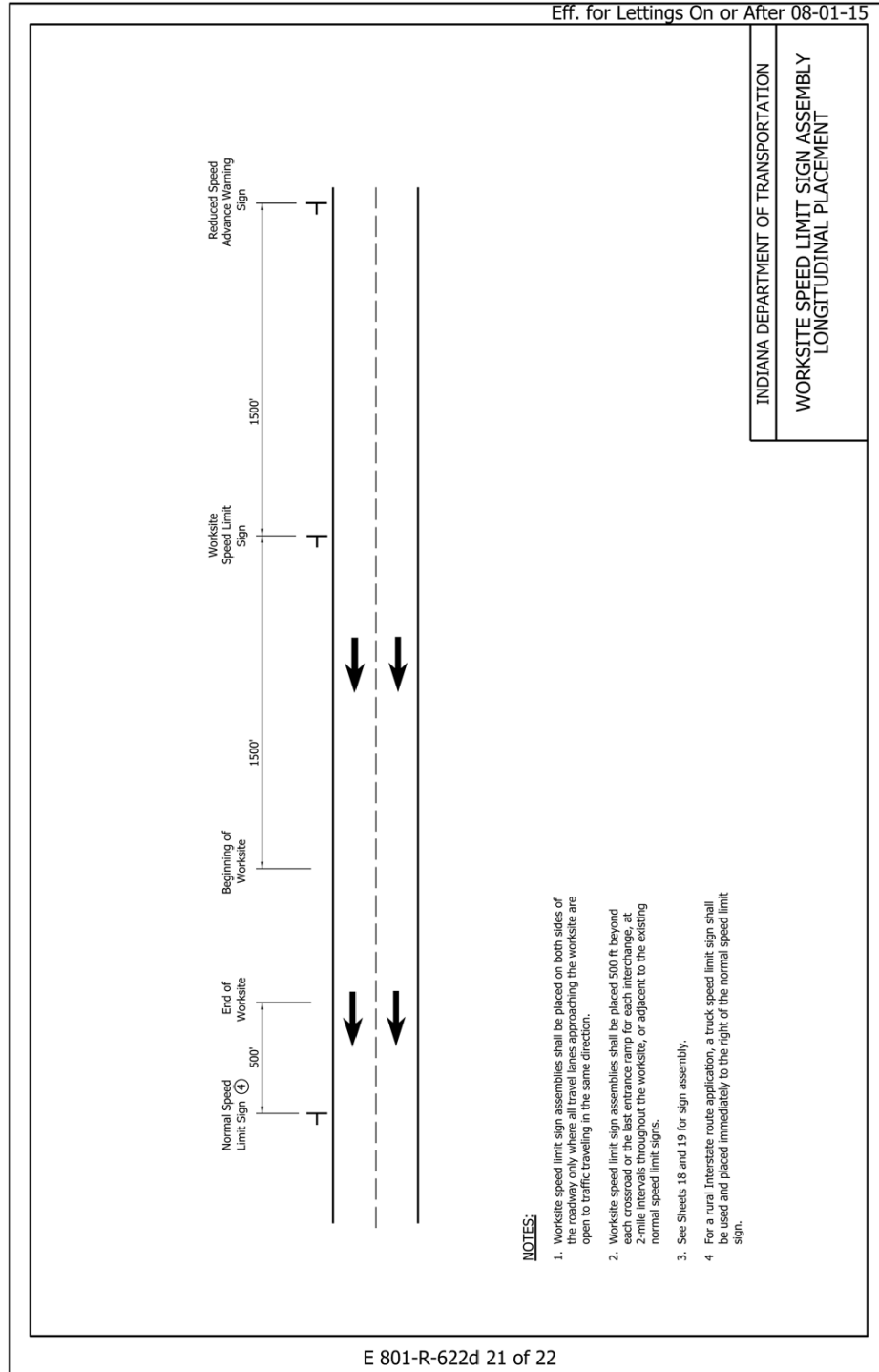
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801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)



REVISION TO STANDARD DRAWINGS AND RECURRING PLAN DETAILS

801-T-622d TRAFFIC CONTROL SIGNS, DEVICES, AND NOTES (CONTAINS 22 SHEETS, plus INDEX)

SURFACE AREA OF ONE TYPE A TEMPORARY Crossover SYS	TYPE A	
	MEDIAN WIDTH, ft	
	60	1208
	50	1041
	40	880
	36	814
	30	713
	26	648

Eff. for Lettings On or After 08-01-15

GENERAL NOTES

1. Distances shown are typical except minimum distances may be varied based on field conditions.
2. The spacing of channelizing devices shall be 100 ft where the posted speed limit is 50 m.p.h. or greater.
3. The spacing of channelizing devices shall be 50 ft where the posted speed limit is less than or equal to 45 m.p.h.
4. The spacing of channelizing devices on tapers shall be numerically equal in feet to the posted speed limit in m.p.h.
5. The flashing arrow sign shall not be placed on a sidewalk. The flashing arrow sign shall be placed at a distance of 1/3 from the beginning of the taper, where L is the meter taper, see Sheet 11.
6. For temporary lane closures during daylight hours, cones or tubular markers may be used in lieu of drums.
7. Temporary pavement markings shall not be required for temporary daytime lane closures.
8. Temporary highway illumination, when specified, shall be as detailed on the plans.

- 9 Once the crossovers have been removed, this line shall be reinstated. However, if the pavement is to be used for one-way traffic.
- 10 For Temporary Crossover Type B, this line shall be removed when the traffic pattern is switched.
- 11 The advisory speed plate will not be required when the existing posted speed limit is less than 55 mph.
- 12 Spacing of channelizing devices at this location shall be 20 ft.
- 13 The "Two-Way Traffic" (RW6-3B) and "Do Not Pass" (R4-1B) signs shall alternate every 254'0" throughout the two-lane two-way operation.
- 14 For a bridge contract, this distance may be adjusted by the Engineer as required. However, it shall be as close to the minimum as possible.
- 15 Once the crossovers have been removed, this line shall be reinstated broken white, if the pavement is to be used for one-way traffic.

LEGEND

- | | | |
|--------------------------------|---|---|
| Flagger |  | Temporary Pavement Marking |
| Work area |  | Removal of pavement markings and prismatic reflectors |
| Flashing arrow sign |  | Typical Sign Standard (Road Closure Sign Assembly) |
| Channelizing device |  | Type III-A or Type III-B Barricades as required |
| Police car (optional) |  | Double Headed Flashing Arrow Sign |
| Construction sign and supports |  | Direction of Traffic |
| W = Width of offset |  | Low intensity construction warning lights |

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL LEGEND AND GENERAL NOTES

COMMENTS AND ACTION

801-TCDV-01 THRU 12
801-TCLG-01
801-TCSN-01 THRU 15
RSP 801-R-542
RPD 801-R-542d
RPD 801-R-543d
RPD 801-R-544d
RPD 801-T-203d

DISCUSSION:

This item was introduced and presented by Mr. Boruff who explained the need for the proposed revisions to the drawings listed in order to be consistent with current standards. Mr. Boruff stated that Brookstone Safety had recommended a review of the 801 standard drawings. Mr. Boruff explained the revisions to the drawings presented, and that some additional drawings are also being introduced. Mr. Boruff also handed out some proposed revisions to the IDM, Ch. 503. Also handed out were revisions to RSP 801-R-542.

Mr. Pankow asked where this information can be found and Mr. Boruff stated that it is in the Highway Standard Signs Book, found at http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm. Mr. Feagans asked if there could be a link to the manual on the website to make it easier for Contractors to find. Note: the link to the Highway Standard Signs Book has been placed and can be located at Standards and Specifications page under Traffic Engineering: <http://www.in.gov/dot/div/contracts/standards/>

Mr. Boruff also mentioned some necessary edits to the table on page 34 (see agenda). He will forward those edits after the meeting.

Further discussion ensued regarding the installation practices of tubular markers. Mr. Boruff stated that the MUTCD does not have a minimum requirement for the base of the tubular makers and Mr. Pankow stated that we had it in there for a reason before. Mr. Bruno explained that it is described in 923. Mr. Pankow does not like allowing the core option and suggested leaving that option out altogether. Ms. Phillips suggested making a revision to note 7, to add "...or MASH", and on other sheets as well. It was also agreed to keep note 8.

Mr. Koch inquired about the dimensions shown on sheet 54 (see agenda), and Mr. Boruff agreed to look into it. Mr. Pankow called out that the height from the bottom of the sign to the sidewalk should be 7 ft, not 5 ft as shown. Mr. Boruff will handle these revisions with regard to sign placement in urban or rural areas. Mr. Cales also pointed out that the dimensions shown should match those shown in the MUTCD. Ms. Phillips stated that she will work with Mr. Boruff in language clarification for sign heights, dependent upon locations.

Mr. Boruff explained revisions to the rest of the drawings shown, and mentioned to Ms. Phillips that some additional revisions will be necessary to the IDM.

Mr. Boruff asked to approve this item as revised. Mr. Cales seconded. Mr. Cales, Ms. Phillips and Mr. Boruff discussed how and when the drawings need to be published and if any will need to be a RPD in the meantime.

Note: additional editorial changes to the RSP 801-R-542 and RPD 801-T-203d were made outside the meeting and are shown in these minutes. In addition, the issued RPD 801-R-622d was revised, with an effective date as of September 01, 2015, to reflect a change in the penalty for Reckless Driving from 8 years to 6 years in accordance with House Enrolled Act 1305.

COMMENTS AND ACTION

801-TCDV-01 THRU 12
801-TCLG-01
801-TCSN-01 THRU 15
RSP 801-R-542
RPD 801-R-542d
RPD 801-R-543d
RPD 801-R-544d
RPD 801-T-203d

(CONTINUED)

Motion: Mr. Boruff Second: Mr. Cales Ayes: 10 Nays: 0 FHWA Approval: <u>YES</u>	Action: <u> </u> Passed as Submitted <u> X </u> Passed as Revised <u> </u> Withdrawn
Standard Specifications Sections referenced and/or affected:	<u> </u> 2018 Standard Specifications
SECTION 801 AND 923	<u> </u> Revise Pay Items List
Recurring Special Provision affected: 801-R-542 WORKSITE ADDED PENALTY SIGNS	<u> X </u> Delete RPDs (No.801-R-542d, -543d, -544d) Discontinued use after July 31,2015
Standard Drawing affected: SEE PROPOSAL	<u> X </u> Revise RPD (No.801-T-203d) Effective <u>August 01, 2015</u> Letting RSP Sunset Date:
Design Manual Sections affected: NONE	<u> X </u> Revise RSP (No.801-R-542) Effective <u>August 01, 2015</u> Letting RSP Sunset Date:
GIFE Sections cross-references: NONE	<u> X </u> Revise Standard Drawing Effective <u>September 01, 2016</u> <u> X </u> Create RPD (No. 801-R-622d) Effective <u>August 01, 2015</u> Letting <u> </u> GIFE Update

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Currently, the Unique Special Provision for Inspection Holes exists on the INDOT USP examples website. This Word document is subject to revision for specific projects and has resulted in various inconsistencies in utilizing this USP. These inconsistencies may result in more holes being dug than are necessary, increasing project costs.

PROPOSED SOLUTION: Revise the USP for use on any project where inspection holes are deemed necessary and make it a Recurring Special Provision to assist Districts and designers in reducing inconsistencies and confusion when requiring inspection holes to verify utility locations.

APPLICABLE STANDARD SPECIFICATIONS: 105, 107

APPLICABLE STANDARD DRAWINGS: N/A

APPLICABLE DESIGN MANUAL SECTION: N/A

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISIONS: N/A

PAY ITEMS AFFECTED: Current Unique Pay Items for Inspection Holes.

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Adhoc

IMPACT ANALYSIS (attach report): Yes

Submitted By: Rob Goldner

Title: Construction Technical Support Manager

Organization: Indiana Department of Transportation

Phone Number: 317-232-7758

Date: April 28, 2015

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO SPECIAL PROVISIONS

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

Does this item appear in any other specification sections? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs? Yes

Construction time? Possibly

Customer satisfaction? Possibly

Congestion/travel time? N/A

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? N/A

Will this item improve safety:

For motorists? N/A

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? Yes

Design process? Possible

Will this change provide the contractor more flexibility? N/A

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? Yes

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: To reduce confusion and unnecessary inspection holes and improve Department involvement in the process for potholing to verify utility locations and depths.

REVISION TO SPECIAL PROVISIONS
PROPOSED NEW 107-X-XXX INSPECTION HOLE

107-X-XXX INSPECTION HOLE

(Adopted xx-xx-15)

Description

This work shall consist of digging inspection holes ~~prior to earth-disturbing activities,~~ in accordance with 105.03, to verify the exact location of underground utilities that are in ~~close proximity~~*potential conflict* ~~to~~with the proposed construction.

Materials

Materials, tools, equipment, labor and incidentals shall be provided as required.

Construction Requirements

Utility locates and coordination shall be in accordance with 105.06 and 107.20.

Once utility locates are marked in the field, inspection holes shall be dug ~~every 25 ft, or as directed,~~at critical locations as agreed upon by the Department along the marked locates where the utility is within 2 ft of the proposed construction. The inspection holes shall be dug to a depth to either the underground utility or to a depth 1 ft below the proposed construction elevation, whichever is shallower. The inspection hole shall be as large as necessary to search for the marked underground utility within 2 ft horizontally of each side of the marked locate. If the utility is found, as directed, outside the 2 ft horizontal distance from the locate mark, then it shall be considered as an additional inspection hole.

The results of inspection holes shall be plotted on the plan sheets and provided in .pdf format to the Engineer within seven calendar days of completing the inspection holes. ~~The information on the plans~~results shall include the utility ~~found~~owner, type, size and material of the utility, station, offset and elevation of the top of the utility. If a utility is not found for a particular inspection hole, then the information shall include the station, offset, elevation and ~~diameter~~dimensions of the inspection hole.

Once the Contractor no longer requires the inspection hole to remain open, it shall be backfilled and compacted with B borrow in accordance with 211. If the inspection hole is to remain open beyond the day that it was dug, it shall be marked and protected to provide warning that the hole exists.

Method of Measurement

Inspection holes for underground utility verification will be measured per each.

Basis of Payment

Inspection holes for underground utility verification will be paid for at the contract unit price per each.

REVISION TO SPECIAL PROVISIONS

PROPOSED NEW 107-X-XXX INSPECTION HOLE

Payment will be made under:

Pay Item

Pay Unit Symbol

Inspection Hole, 3 ft Deep or Less.....EACH
Inspection Hole, Deeper Than 3 ft.....EACH

The cost of digging, backfilling, B borrow, measuring, preparing and submitting results, coordination, and all necessary incidentals shall be included in the cost of inspection holes.

APPROVED MINUTES

COMMENTS AND ACTION

107-X-XXX INSPECTION HOLE

DISCUSSION:

Mr. Goldner introduced and presented this item stating the need to make the current unique special provision a recurring special provision, as described on the proposal sheet.

Following much discussion, Mr. Pankow suggested removing the language regarding the "every 25 ft". Other revisions were also incorporated and are as shown above.

Mr. Goldner revised his motion which was seconded by Mr. Walker.

Motion: Mr. Goldner Second: Mr. Walker Ayes: 10 Nays: 0 FHWA Approval: <u>YES</u>	Action: ☐ Passed as Submitted ☒ Passed as Revised ☐ Withdrawn
Standard Specifications Sections referenced and/or affected: 105 AND 107	☐ 2018 Standard Specifications ☐ Revise Pay Items List
Recurring Special Provision affected: PROPOSED NEW	☒ Create RSP (No.107-C-xxx) Effective Jan. <u>01, 2016</u> Letting RSP Sunset Date:
Standard Drawing affected: NONE	☐ Revise RSP (No._____) Effective _____ Letting RSP Sunset Date:
Design Manual Sections affected: NONE	☐ Standard Drawing Effective
GIFE Sections cross-references: NONE	☐ Create RPD (No._____) Effective _____ Letting ☐ GIFE Update

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: RSP 211-R-415 was developed in 2002 and was added to the Menu and Basis for Use in 2005 with: "As determined necessary by the Office of Material Management." The intent of issuing this RSP was as a marketing tool to demonstrate that INDOT recognizes crushed glass as a bedding material for pipe and that it is an acceptable reuse application of a waste material. Current practices have shown that the use of crushed glass as bedding material on INDOT contracts is very low.

PROPOSED SOLUTION: To discontinue use of this RSP but to make it available on the INDOT web site as a unique provision. If so, a revision will be needed to clarify the unit of measurement and pay item that will be used for this material.

APPLICABLE STANDARD SPECIFICATIONS: 211

APPLICABLE STANDARD DRAWINGS: N/A

APPLICABLE DESIGN MANUAL SECTION: N/A

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISIONS: 211-R-415

PAY ITEMS AFFECTED: N/A

IMPACT ANALYSIS (attach report): N/A

Submitted By: Rob Goldner

Title: Construction Technical Support Manager

Organization: INDOT, Construction Management

Phone Number: 317-232-7758

Date: April 27, 2015

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad-hoc

REVISION TO SPECIAL PROVISIONS

211-R-415 CRUSHED GLASS AS BEDDING MATERIAL

211-R-415 CRUSHED GLASS AS BEDDING MATERIAL

(Adopted 09-01-05)

Description

This work shall consist of using 100% crushed glass as bedding material beneath pipes and storm sewers in accordance with 105.03. Adherence to the provisions herein does not preclude applicability of local, State, or Federal regulations and laws.

Materials

The source shall be recycled glass beverage and food containers that have been processed by equipment specifically designed to crush glass into aggregate. The resultant material shall be relatively free of bottle caps, labeling paper, clay balls, and other unsuitable materials. The crushed glass shall be in accordance with the following gradations.

Sieve	% Fines
1/2 in. (12.5 mm)	85 - 100
#4 (4.76 mm)	45 - 85
#10 (2 mm)	25 - 70
#40 (0.425 mm)	10 - 30
#200 (0.075 mm)	0 - 10

Crushed glass shall be Type III or Type IV per IDEM's restricted waste typing criteria.

The source shall be approved by the Department's Environmental Services Section. Sampling in accordance with AASHTO T 2, sieve analyses in accordance with AASHTO T 11 & 27, and standard proctor test in accordance with AASHTO T 99 shall be performed by a Department approved laboratory and test results submitted to the Department's Office of Materials Management for approval at least 3 days prior to use.

Method of Construction

Construction shall be in accordance with 200 and 700.

Method of Measurement

The method of measurement will be in accordance with 211.

Basis of Payment

Payment will be in accordance with 211.

COMMENTS AND ACTION

211-R-415 CRUSHED GLASS AS BEDDING MATERIAL

DISCUSSION:

This item was introduced and presented by Mr. Goldner who explained that the intention is to discontinue use of this RSP, but to make it available on the Department web site as a unique special provision, since use of this RSP, and this material, is extremely low.

Mr. Walker offered that this RSP was instigated by Materials Management in 2002 to incorporate recycled materials. Mr. Walker agreed with Mr. Pankow that this material is not being used and no one could recall the last time it was used. Mr. Walker suggested editorial revisions and that it be made available (as a USP) in case it is needed.

This RSP will be removed and revised and included in the USP list website.

Motion: Mr. Goldner Second: Mr. Walker Ayes: 10 Nays: 0 FHWA Approval: <u>YES</u>	Action: <table> <tr> <td><u>X</u></td><td>Passed as Submitted</td></tr> <tr> <td><u> </u></td><td>Passed as Revised</td></tr> <tr> <td><u> </u></td><td>Withdrawn</td></tr> </table>	<u>X</u>	Passed as Submitted	<u> </u>	Passed as Revised	<u> </u>	Withdrawn
<u>X</u>	Passed as Submitted						
<u> </u>	Passed as Revised						
<u> </u>	Withdrawn						
Standard Specifications Sections referenced and/or affected:	<u> </u> 2018 Standard Specifications						
NONE Recurring Special Provision affected:	<u> </u> Revise Pay Items List						
211-R-415 CRUSHED GLASS AS BEDDING MATERIAL	<u>X</u> Discontinue RSP (No. 211-R-415) RSP Sunset Date: <u>Sep. 01, 2015</u>						
Standard Drawing affected:	<u> </u> Create RSP (No. <u> </u>) Effective <u> </u> Letting RSP Sunset Date:						
NONE Design Manual Sections affected:	<u> </u> Revise RSP (No. <u> </u>) Effective <u> </u> Letting RSP Sunset Date:						
NONE GIFE Sections cross-references:	<u> </u> Standard Drawing Effective						
NONE	<u> </u> Create RPD (No. <u> </u>) Effective <u> </u> Letting						
	<u> </u> GIFE Update						