INDIANA DEPARTMENT OF TRANSPORTATION
100 North Senate Avenue
Room N758 CM
Indianapolis, Indiana 46204
www.in.gov/indot
Mike Braun, Governor
Lyndsay Quist, Commissioner

FIRST DRAFT MINUTES

April 16, 2026, Standards Committee Meeting

(Changes to the Agenda by the Action of the Committee shown as highlighted yellow.)

April 22, 2026

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Minutes from the April 16, 2026, Standards Committee Meeting

The Standards Committee meeting was called to order by Mr. Novak, *Proxy* for G. Pankow, Chair, at 09:01 a.m. on Thursday, April 16, and was held virtually via *Teams* (Microsoft application). The meeting was adjourned at 10:20 a.m. The next Standards Committee meeting is scheduled for Thursday, **May 21**, 2026.

The following committee members were in attendance:

Novak, Joseph*, Chairman, Director, Construction Management
Bruno, Joseph**, Traffic Engineering
Koch, Mike, District Construction, Fort Wayne District
Hauser, Derrick***, Construction Management
Orton, Mark, Highway Engineering
Pelz, Kurt, Construction Technical Support
Rearick, Anne, Bridge Management
Reilman, Jim, Materials and Tests
White, Peter, Bridge Engineering
Wooden, John, Contract Administration
**Proxy* for Pankow, Gregory
***Proxy* for Boruff, David
****Proxy* for Novak, Joseph

Also, the following attendees were present:

Barnes, Tracy, INDOT
Blanchard, Jacob, INDOT
Delp, Patrick, INDOT
Doug Nagel, Highway Safety Services
Lewis, Sarah K, INDOT
Mouser, Elizabeth, INDOT
Pepenella, Keith J, INDOT
Pinkstaff, Katrina, INDOT

Edward Waterfall, Rinker Pipe
Elizabeth Pastuszka, APAI
Feutz, Douglas, INDOT
Fox, Gary A, INDOT
Galetka, Jason, INDOT
Harris, Tom, INDOT
Jacobs, David L, INDOT
John Leckie, IRMCA
Kachler, Mischa, INDOT
Killian, Abbygail, INDOT
Kyle Nagel, Highway Safety Services
Podorvanova, Lana, INDOT
Ranck, Amanda, INDOT
Russell, Melissa, INDOT
Schroeder, Laura, INDOT
Smart, Steve, County Materials
Smith, Charles, INDOT
Smutzer, Katherine, INDOT
Thornton, Donald, INDOT
Trammell, Scott, INDOT
Wortkoetter, Andrew J., INDOT

The following items were discussed:

A. GENERAL BUSINESS

OLD BUSINESS *(No items were listed)*

NEW BUSINESS *Approval of the Minutes from the March 20, 2026 meeting*

Following discussions after the March meeting, Mr. Reilman proposed to withdraw Item No. 4, pending further review.

Item No. 6 - Mr. Koch suggested the language in 506.08 should match what is shown in the drawings. Mr. Dave agreed.

Mr. Novak, sitting as proxy for Mr. Pankow requested a motion to approve the Minutes from the March 20, 2026, meeting, as revised.

Motion: Mr. Pelz
Second: Mr. Reilman
Ayes: 10
Nays: 0

ACTION: PASSED AS REVISED

B. CONCEPTUAL PROPOSAL

Mr. Novak proposed to discontinue Recurring Special Provision (RSP) 106-C-280 E-TICKETING INCENTIVE for future contracts, and remove the RSP from the MenuBFU, effective for June, July, and August 2026 lettings. Note that the pay item needs to continue to exist since it may need to be added via change order to pay incentives on currently active contracts.

C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STANDARD DRAWINGS PROPOSAL

OLD BUSINESS *(No items were listed)*

NEW BUSINESS

Item No. 1 — Mr. Boruff — pg. 5

Standard Drawings:

E 801-TCLC series (-01 thru -12)
E 801-TCTC series (-01 thru -04)
E 801-TPAR series (-01 thru -11)

ACTION: PASSED AS SUBMITTED

Item No. 2 — Mr. Boruff — pg. 62

Standard Drawings:

E 802-SNDH series
E 802-SNGS series
E 802-SNPL series

ACTION: PASSED AS SUBMITTED

Item No. 3 — Mr. Boruff — pg. 95

2026 Standard Specifications:

808.04(b) Lane Lines

Standard Drawings:

E 808-DLIM series
E 808-MKPM-06 Transverse Markings Railroad Crossings

ACTION: PASSED AS REVISED

Item No. 4 — Mr. Boruff — pg. 119

Recurring Special Provision:

801-R-542 WORKSITE ADDED PENALTY SIGNS

Recurring Plan Details:

801-T-247d TRAFFIC CONTROL SIGNS

ACTION: PASSED AS SUBMITTED

Item No. 5 — Mr. Boruff — pg. 140

Recurring Special Provisions:

805-T-085 SIGNAL LAMP REPLACEMENT, AERIAL INSPECTION, AND LOOP REPLACEMENT

805-T-086 TRAFFIC SIGNAL MAINTENANCE AND REPAIR

ACTION: PASSED AS SUBMITTED

Item No. 6 Mr. Reilman pg. 144

2026 Standard Specifications:

211.03	General Requirements

Recurring Special Provision:

715-R-809	PIPE CULVERTS, AND STORM AND SANITARY SEWERS
ACTION:	PASSED AS SUBMITTED

Item No. 7 Mr. Reilman pg. 149

2026 Standard Specifications:

303.09	Method of Measurement
904.01	Aggregates
ACTION:	PASSED AS REVISED

Item No. 8 Mr. Reilman pg. 154

2026 Standard Specifications:

401.05	Volumetric Mix Design
401.06	Recycled Materials
401.20	Contractor Disputing Acceptance Test Results
ACTION:	PASSED AS REVISED

Item No. 9 Mr. Reilman pg. 160

2026 Standard Specifications:

410.06	Recycled Materials
410.20	Contractor Disputing Acceptance Test Results
ACTION:	PASSED AS SUBMITTED

Item No. 10 Mr. Reilman pg. 165

2026 Standard Specifications:

716.02	Materials
ACTION:	WITHDRAWN

cc: Committee Members
FHWA
ICI

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. The 801-TCLC, 801-TCTC, 801-TPAR, need various minor updates for the current edition of the MUTCD.

PROPOSED SOLUTION: Update these Standard Drawing series for the current edition of the MUTCD.

APPLICABLE STANDARD SPECIFICATIONS: N/A

APPLICABLE STANDARD DRAWING: 801-TCLC, 801-TCTC, and 801-TPAR

APPLICABLE DESIGN MANUAL CHAPTER: 503

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Reviewed by IMUTCD Steering Committee

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Required for contracts with any 801 pay items.

IMPACT ANALYSIS (attach report): Yes

Submitted By: Joe Bruno on behalf of Dave Boruff

Title: Sr. Traffic Engineer

Division: Traffic Engineering Division

E-mail: jbruno@indot.in.gov

Date: 3/20/2026

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 Qualified Products List (QPL)? No
Will this proposal improve:

- Construction costs? No
- Construction time? No
- Customer satisfaction? Yes
- Congestion/travel time? Yes
- Ride quality? No

Will this proposal reduce operational costs or maintenance effort? No

Will this item improve safety:

- For motorists? Yes
- For construction workers? No

Will this proposal improve quality for:

- Construction procedures/processes? Yes
- Asset preservation? No
- Design process? Yes

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? Yes

Is this proposal needed for compliance with:

- Federal or State regulations? Yes
- 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

E 801-TCLC-01 Stationary Lane Closure Index and General Notes (shown markups)

INDEX	
SHEET NO.	SUBJECT
1	Stationary Lane Closure Index and General Notes
2	Long-Term Stationary Freeway Right Lane Closure
3	Short or Intermediate Term Stationary Freeway Right Lane Closure
4	Short or Intermediate Term Stationary Freeway Right Lane Closure with Minor Encroachment
5	Long-Term Stationary Freeway Left Lane Closure
6	Short or Intermediate Term Stationary Freeway Left Lane Closure
7	Short or Intermediate Term Stationary Freeway Left Lane Closure with Minor Encroachment
8	Short or Intermediate Term Stationary Double Lane Closure Freeway for Work in the Center Lane
9	Short or Intermediate Term Stationary Double Lane Closure Freeway with Minor Encroachment
10	Short or Intermediate Term Stationary Freeway Right Lane Closure Near Interchange with Exit Open
11	Traffic Control for Freeway Exit Closure
12	Short or Intermediate Term Stationary Lane Closure on Three Lane Road

LEGEND

- Work Area
- Flashing Arrow Sign
- Channelizing Device
- Construction Sign and Supports
- Removal of Pavement Markings and Prismatic Reflectors
- Type III-A Barricades
- Direction of Traffic
- Low Intensity Construction Warning Light, Type A
- Shadow Vehicle with Truck-Mounted Attenuator, Arrow Board, and Strobe Lights
- Type III-Barricade
- Crash Cushion

GENERAL NOTES:

1. **~~Short-term stationary~~**, work that occupies a location for more than one hour within a single daylight period.
   Intermediate-term stationary, work that occupies a location for more than one daylight period up to three days, or nighttime work lasting more than one hour.
   Long-term stationary, work that occupies a location for more than three days.
2. Distances shown may be varied based on field conditions with approval from the Engineer.
3. Unless otherwise noted, the spacing of channelizing devices in tangent sections shall be 100 ft where the posted speed limit is 50 m.p.h. or greater, and the spacing shall be 50 ft where the posted speed limit is less than or equal to 45 m.p.h.
4. Unless otherwise noted, the spacing of channelizing devices in tapers shall be equal in feet to the posted speed limit in m.p.h.
5. The sign spacing shown for freeway lane closures may be reduced to 500 ft for lane closures on rural undivided highways.
6. For interstate lane closures road ~~construction~~ work 3 miles, road ~~construction~~ work 2 miles, and road ~~construction~~ work 1½ mile signs shall be placed in advance of the road construction ahead sign.
7. Temporary pavement markings may be omitted for short-term and intermediate-term stationary daylight lane closures.
8. Temporary highway illumination, when specified, shall be as detailed on the plans.
9. Channelizing devices and barrels are schematic and are only intended to show placement and not number or spacing.

INDIANA DEPARTMENT OF TRANSPORTATION

STATIONARY LANE CLOSURE INDEX AND GENERAL NOTES

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-01

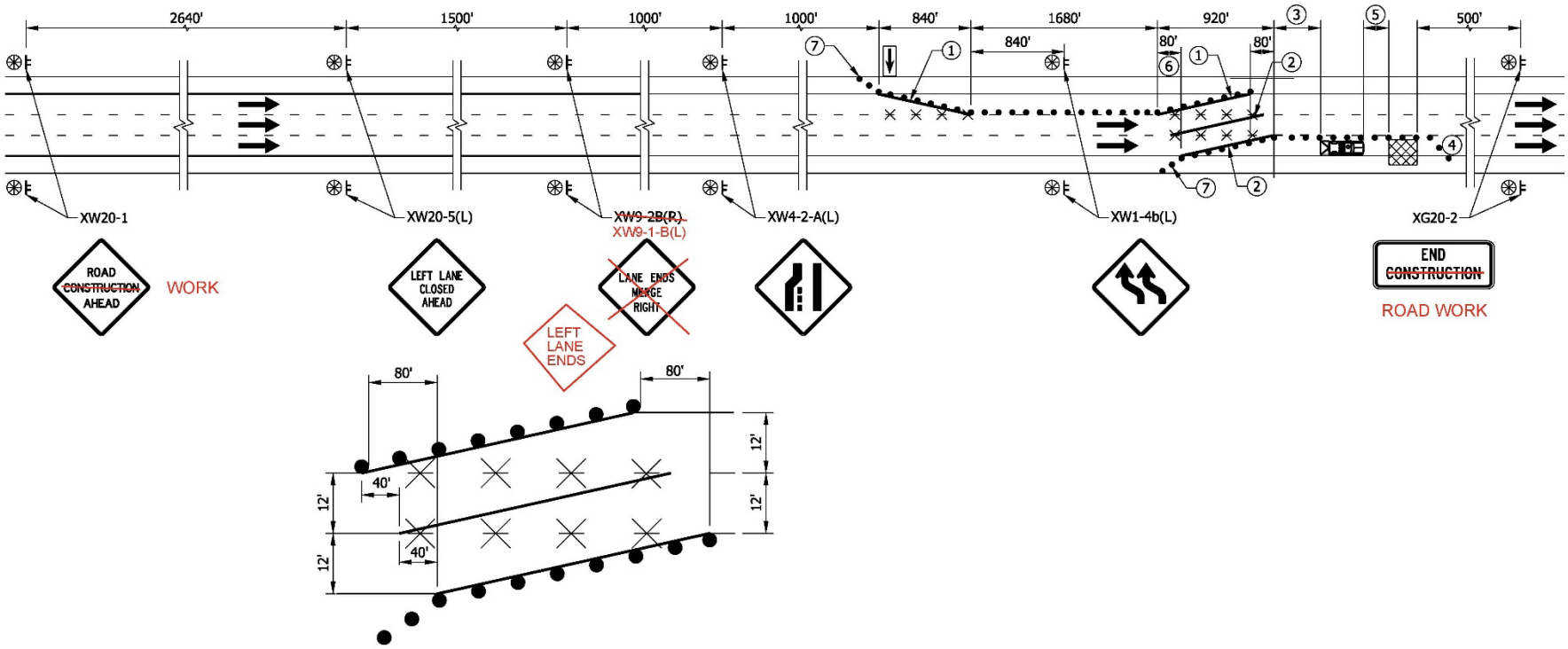
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-02 Long-Term Stationary Freeway Right Lane Closure (shown markups)



DETAIL A

NOTES:

1. Yellow Edge Line
2. White Edge Line
3. Longitudinal Buffer Length, see table.
4. Downstream taper after work area shall extend 100 ft on freeway and drums shall be spaced 20 ft. The downstream taper may be omitted if necessary for work vehicle access.
5. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
6. Unless otherwise specified on the plans, stagger lane shift to increase lane width through the shift. The temporary lane line in the middle shall be offset 40 ft from each temporary edge line for 12 ft lanes, see Detail A. For double lane shifts that go from 12 ft lanes to 11 ft lanes, the temporary lane line in the middle shall be offset 80 ft from each temporary edge line.
7. Shoulder taper of ⅓ L. See Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

LONG-TERM STATIONARY FREEWAY
RIGHT LANE CLOSURE

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-02

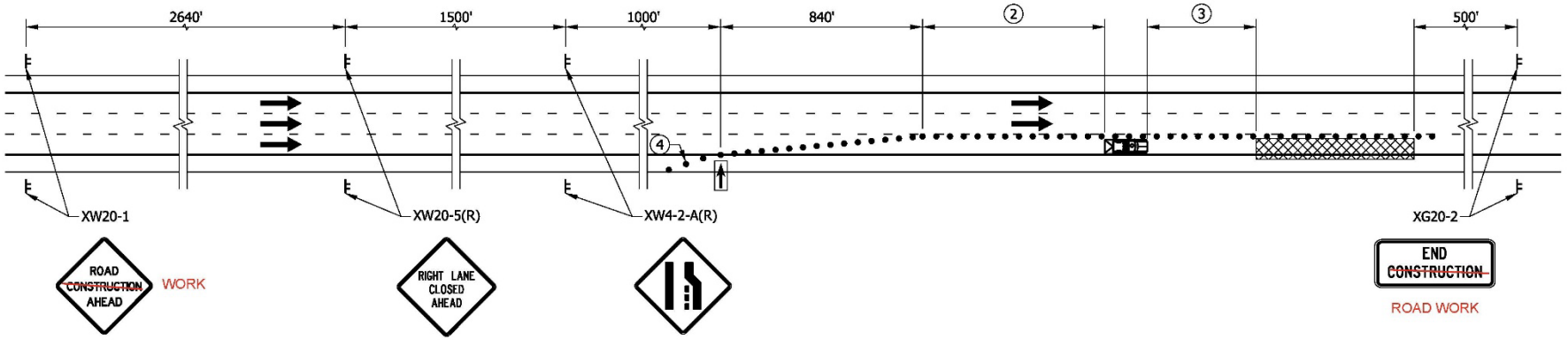
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-03 Short or Intermediate Term Stationary Freeway Right Lane Closure (shown markups)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. (2) Longitudinal Buffer Length, see table.
3. (3) Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
4. (4) Shoulder taper of ⅓ L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY RIGHT LANE CLOSURE

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-03

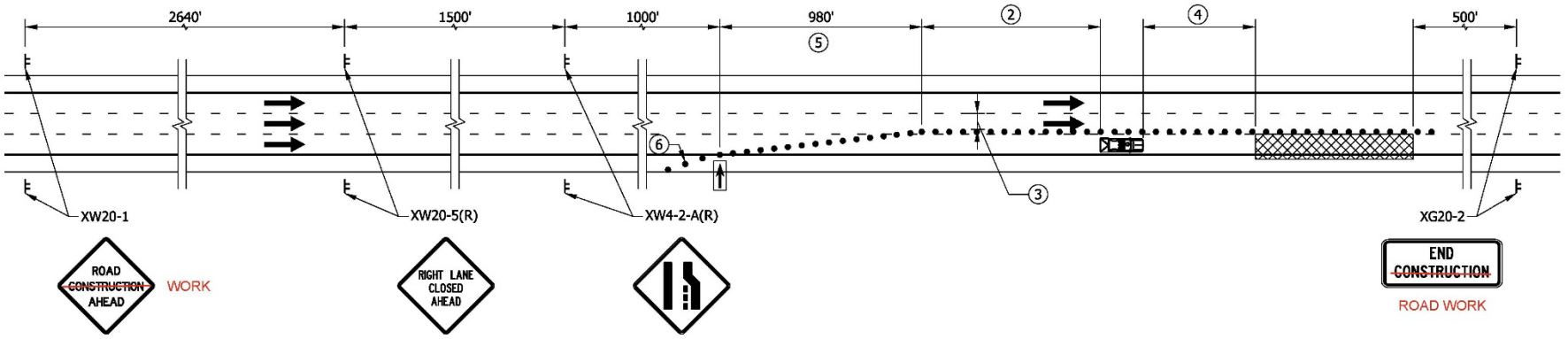
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H. Boruff 06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-04 Short or Intermediate Term Stationary Freeway Right Lane Closure with Minor Encroachment (shown markups)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. Longitudinal Buffer Length, see table.
3. Lane width shall be a minimum width of 10 ft.
4. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
5. Use a separate shift taper separated by a distance of 2L if a merge taper is wider than 14 ft.
6. Shoulder taper of ⅓ L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY RIGHT LANE CLOSURE WITH MINOR ENCROACHMENT

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-04

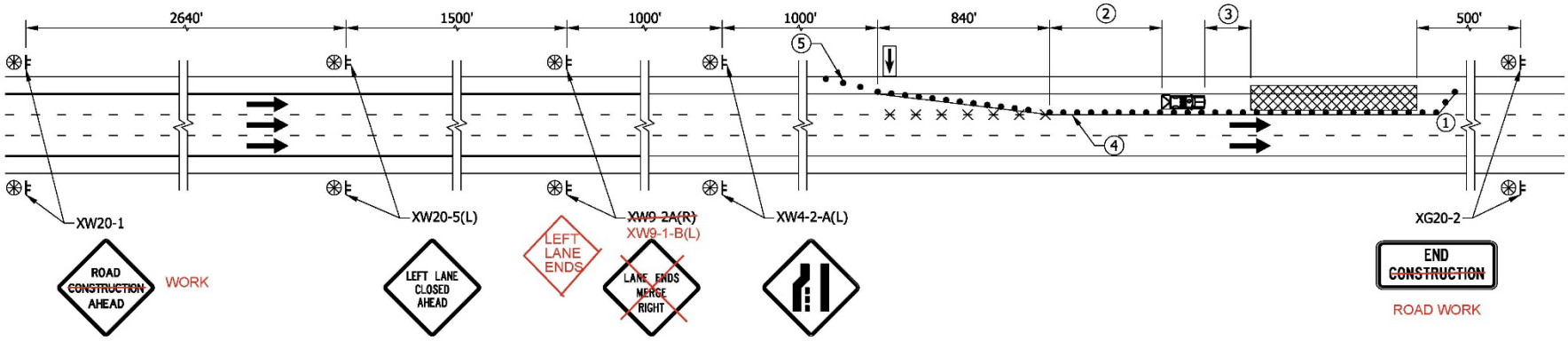
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — 06/08/22 DATE

CHIEF ENGINEER — 06/27/2022 DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-05 Long-Term Stationary Freeway Left Lane Closure (shown markups)



NOTES:

1. The downstream taper after work area shall extend 100 ft of roadway and drums shall be spaced 20 ft. The downstream taper may be omitted if necessary for work vehicle access.
2. Longitudinal Buffer Length, see table
3. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
4. Yellow Edge Line
5. Shoulder taper of ⅓ L. See Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

LONG-TERM STATIONARY FREEWAY
LEFT LANE CLOSURE

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-05

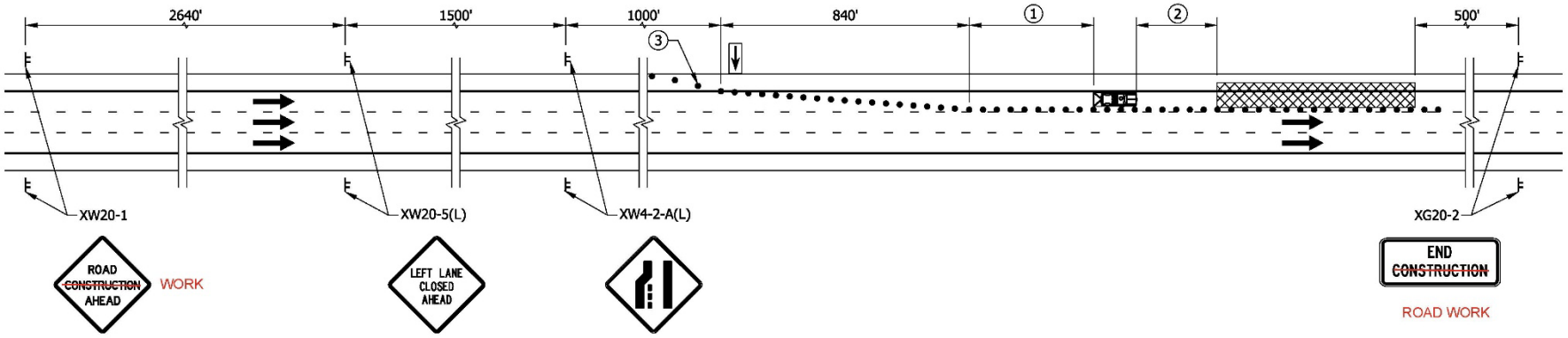
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-06 Short or Intermediate Term Stationary Freeway Left Lane Closure (shown markups)



NOTES:

1. Longitudinal Buffer Length, see table.
2. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
3. Shoulder taper of ⅓ L. See Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY LEFT LANE CLOSURE

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-06

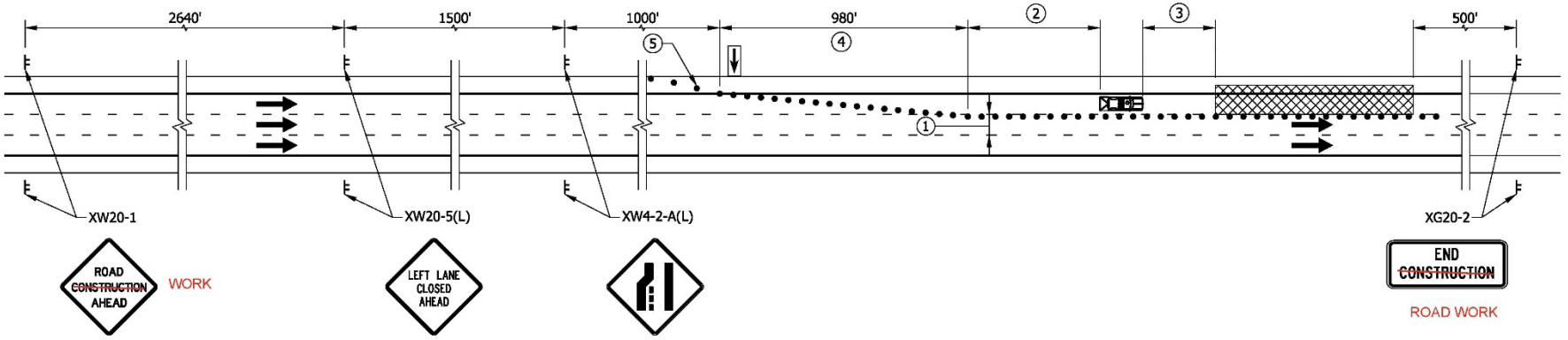
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-07 Short or Intermediate Term Stationary Freeway Left Lane Closure with Minor Encroachment (shown markups)



NOTES:

1. 10 ft minimum lane width
2. Longitudinal Buffer Length, see table
3. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
4. Use a separate shift taper separated by a distance of 2L if a merge taper is wider than 14 ft.
5. Shoulder taper of ⅓ L, see Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY LEFT LANE CLOSURE WITH MINOR ENCROACHMENT

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-07

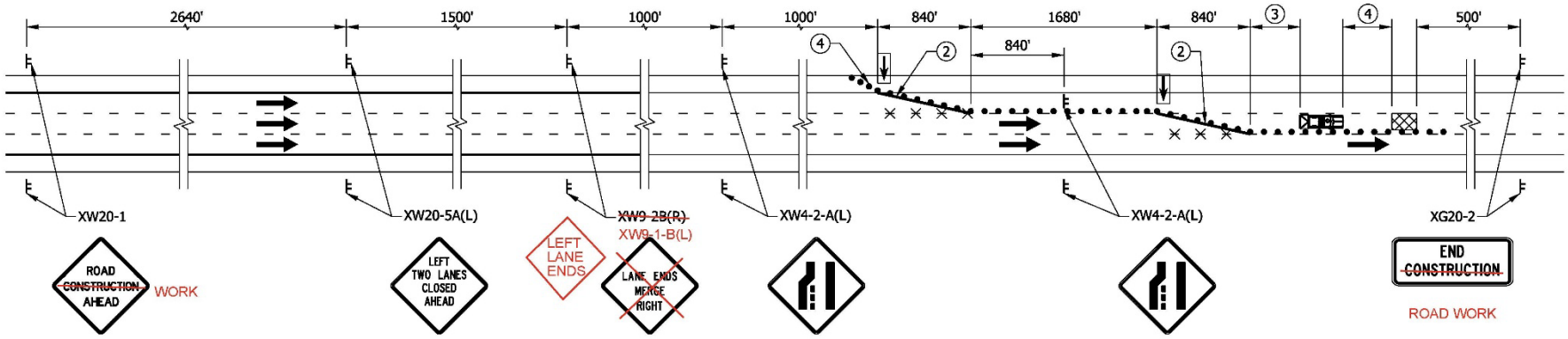
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — 06/08/22 DATE

CHIEF ENGINEER — 06/27/2022 DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-08 Short or Intermediate Term Stationary Double Lane Closure Freeway for Work in the Center Lane (shown markups)



NOTES:

1. Use temporary concrete traffic barrier or reversible lane with moveable barrier in lieu of drums if required by the designer.

(2) Yellow Edge Line

(3) Longitudinal Buffer Length, see table.

(4) Shoulder taper ⅓ L. See Standard Drawing series 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY DOUBLE LANE CLOSURE FOR WORK IN THE CENTER LANE

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-08

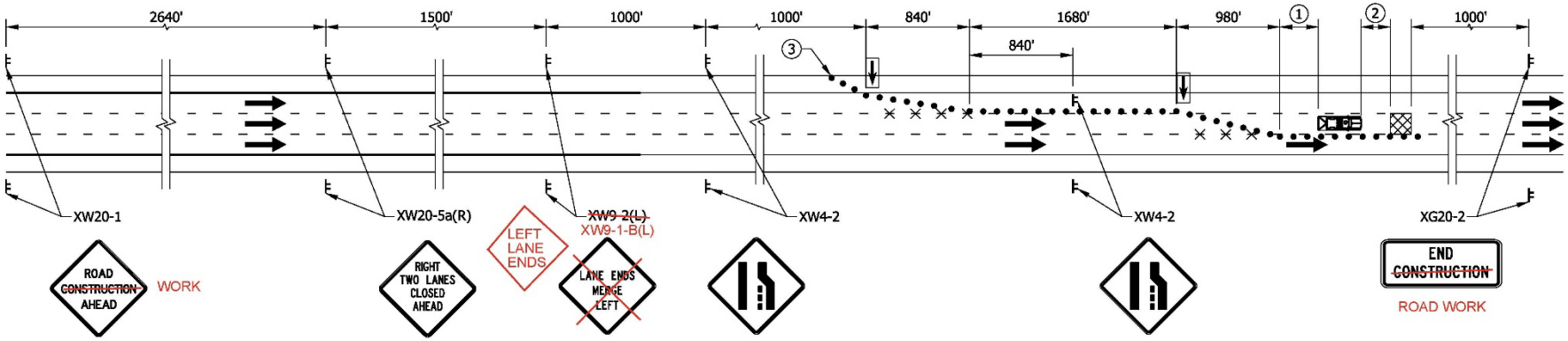
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER 06/08/22 DATE

CHIEF ENGINEER 06/27/2022 DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-09 Short or Intermediate Term Stationary Double Lane Closure Freeway with Minor Encroachment (shown markups)



NOTES:

1. Longitudinal Buffer Length, see table.
2. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
3. Shoulder taper of ⅓ L, see Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY DOUBLE LANE CLOSURE WITH MINOR ENCROACHMENT

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-09

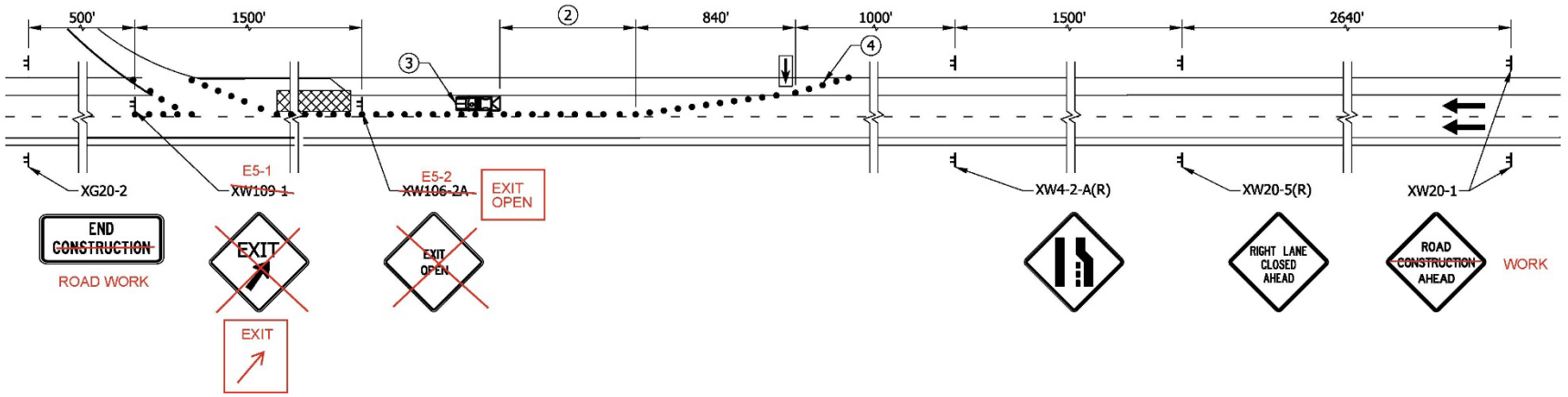
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-10 Short or Intermediate Term Stationary Freeway Right Lane Closure Near Interchange with Exit Open (shown markups)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. (2) Longitudinal Buffer Length, see table.
3. (3) Shadow vehicle roll ahead distance shalll be as recommended by the truck mounted attenuator manufacturer.
4. (4) Shoulder taper of ⅓ L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY
FREEWAY RIGHT LANE CLOSURE
NEAR INTERCHANGE WITH EXIT OPEN
SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-10

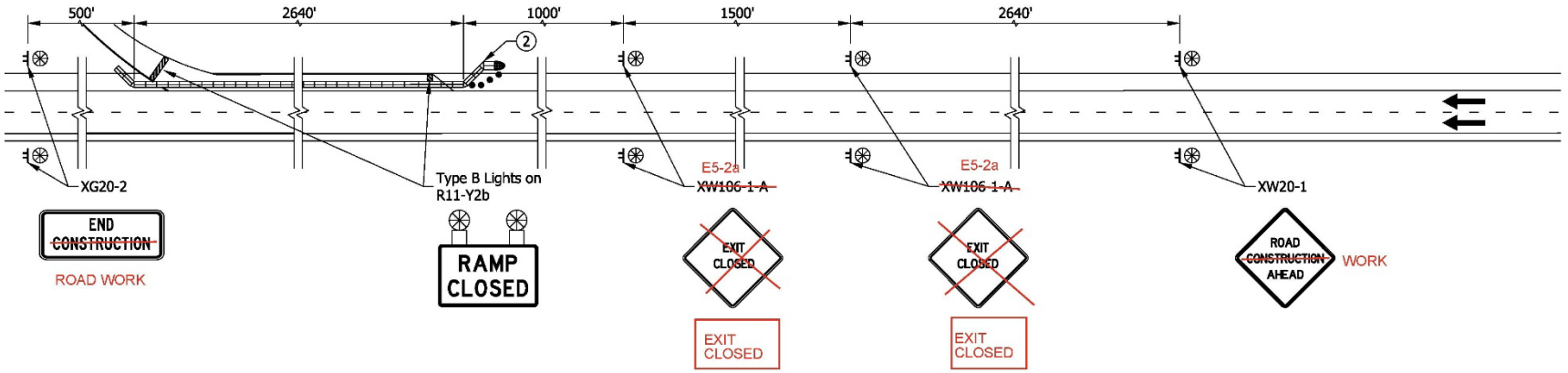
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — 06/08/22 DATE

CHIEF ENGINEER — 06/27/2022 DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-11 Traffic Control for Freeway Exit Closure (shown markups)



NOTES:

1. Temporary traffic barrier shall be used for long-term stationary work. For short-term or intermediate-term stationary work, drums spaced at 20 ft may be used in lieu of temporary traffic barrier.

(2) Flared temporary traffic barrier or approved end treatment flare rate 16:1 to edge of shoulder.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL FOR
FREEWAY EXIT CLOSURE

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-11

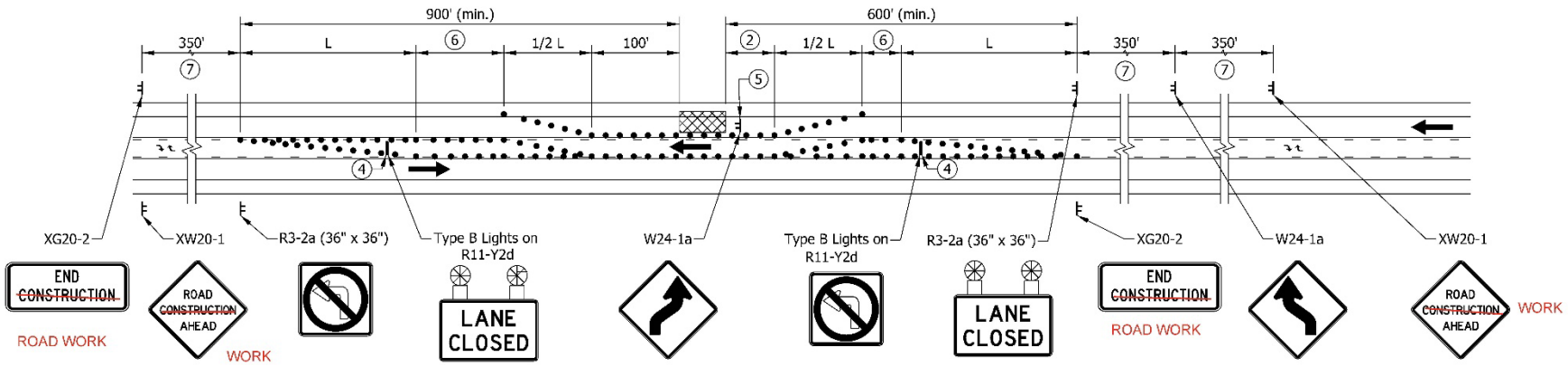
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-12 Short or Intermediate Term Stationary Lane Closure on Three Lane Road (shown markups)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. Longitudinal Buffer Length, see table.
3. R3-2A must be repeated at each intersection and at class 3 and 4 drives.
4. Type III Barricade
5. The lane-shift sign shall be placed 350 ft in advance of the return lane-shift.
6. Access Control Buffer, if required.
7. For urban locations where the speed limit is ≤ 35 mph, the sign spacing may be reduced to 100 ft.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY LANE CLOSURE ON THREE LANE ROAD

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCLC-12

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — 06/08/22 DATE

CHIEF ENGINEER — 06/27/2022 DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-01 Stationary Lane Closure Index and General Notes (proposed draft)

INDEX	
SHEET NO.	SUBJECT
1	Stationary Lane Closure Index and General Notes
2	Long-Term Stationary Freeway Right Lane Closure
3	Short or Intermediate Term Stationary Freeway Right Lane Closure
4	Short or Intermediate Term Stationary Freeway Right Lane Closure with Minor Encroachment
5	Long-Term Stationary Freeway Left Lane Closure
6	Short or Intermediate Term Stationary Freeway Left Lane Closure
7	Short or Intermediate Term Stationary Freeway Left Lane Closure with Minor Encroachment
8	Short or Intermediate Term Stationary Double Lane Closure Freeway for Work in the Center Lane
9	Short or Intermediate Term Stationary Double Lane Closure Freeway with Minor Encroachment
10	Short or Intermediate Term Stationary Freeway Right Lane Closure Near Interchange with Exit Open
11	Traffic Control for Freeway Exit Closure
12	Short or Intermediate Term Stationary Lane Closure on Three Lane Road

LEGEND

- Work Area
- Flashing Arrow Sign
- Channelizing Device
- Construction Sign and Supports
- Removal of Pavement Markings and Prismatic Reflectors
- Type III-A Barricades
- Direction of Traffic
- Low Intensity Construction Warning Light, Type A
- Shadow Vehicle with Truck-Mounted Attenuator, Arrow Board, and Strobe Lights
- Type III-Barricade
- Crash Cushion

GENERAL NOTES:

1. **Short-term stationary**, work that occupies a location for more than one hour within a single daylight period.
   Intermediate-term stationary, work that occupies a location for more than one daylight period up to three days, or nighttime work lasting more than one hour.
   Long-term stationary, work that occupies a location for more than three days.
2. Distances shown may be varied based on field conditions with approval from the Engineer.
3. Unless otherwise noted, the spacing of channelizing devices in tangent sections shall be 100 ft where the posted speed limit is 50 m.p.h. or greater, and the spacing shall be 50 ft where the posted speed limit is less than or equal to 45 m.p.h.
4. Unless otherwise noted, the spacing of channelizing devices in tapers shall be equal in feet to the posted speed limit in m.p.h.
5. The sign spacing shown for freeway lane closures may be reduced to 500 ft for lane closures on rural undivided highways.
6. For interstate lane closures road work 3 miles, road work 2 miles, and road work 1½ mile signs shall be placed in advance of the road work ahead sign.
7. Temporary pavement markings may be omitted for short-term and intermediate-term stationary daylight lane closures.
8. Temporary highway illumination, when specified, shall be as detailed on the plans.
9. Channelizing devices and barrels are schematic and are only intended to show placement and not number or spacing.

INDIANA DEPARTMENT OF TRANSPORTATION

STATIONARY LANE CLOSURE INDEX AND GENERAL NOTES

SEPTEMBER 2026

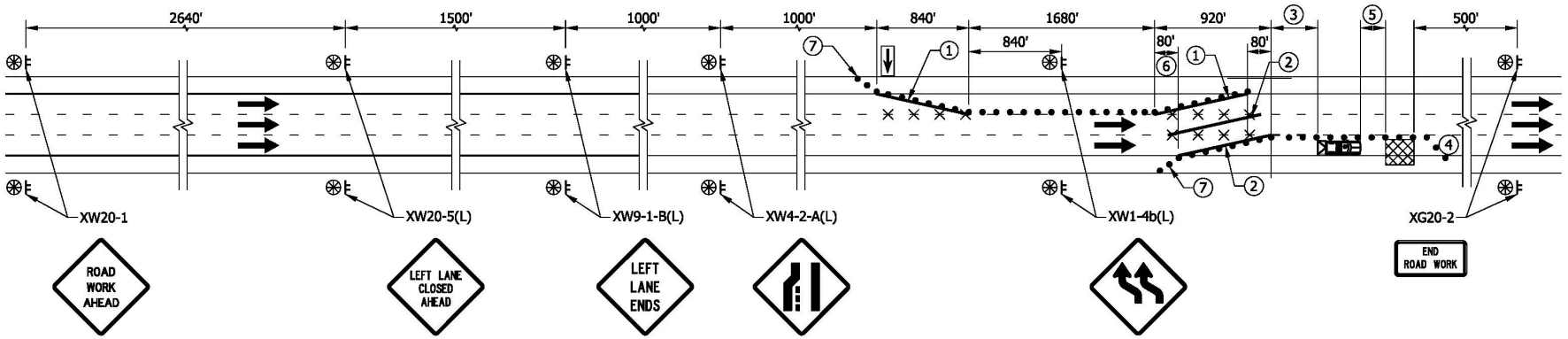
STANDARD DRAWING NO. E 801-TCLC-01

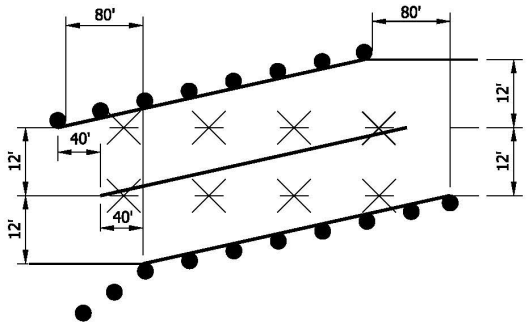
DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-02 Long-Term Stationary Freeway Right Lane Closure (proposed draft)





DETAIL A

NOTES:

1. Yellow Edge Line
2. White Edge Line
3. Longitudinal Buffer Length, see table.
4. Downstream taper after work area shall extend 100 ft on freeway and drums shall be spaced 20 ft. The downstream taper may be omitted if necessary for work vehicle access.
5. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
6. Unless otherwise specified on the plans, stagger lane shift to increase lane width through the shift. The temporary lane line in the middle shall be offset 40 ft from each temporary edge line for 12 ft lanes, see Detail A. For double lane shifts that go from 12 ft lanes to 11 ft lanes, the temporary lane line in the middle shall be offset 80 ft from each temporary edge line.
7. Shoulder taper of ⅓ L. See Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

LONG-TERM STATIONARY FREEWAY
RIGHT LANE CLOSURE

SEPTEMBER 2026

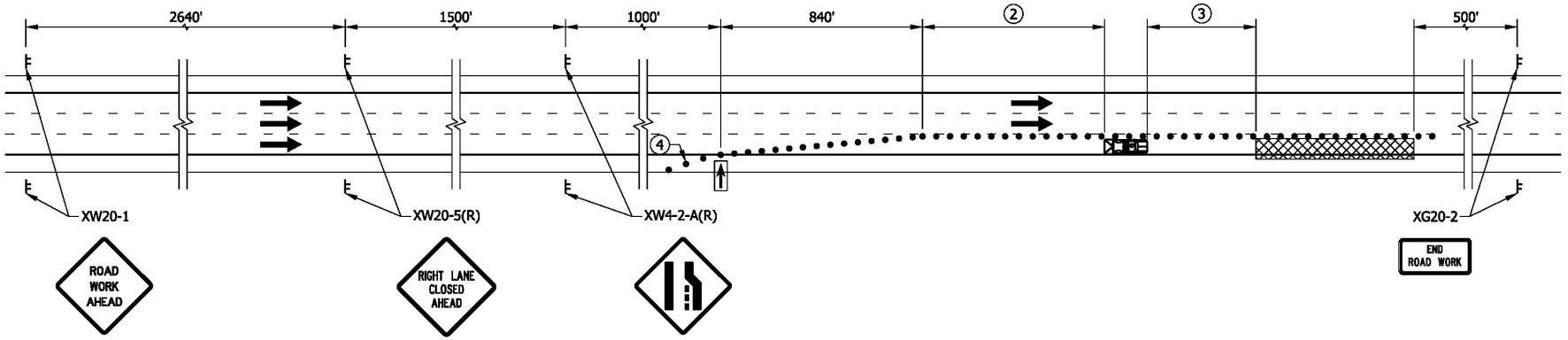
STANDARD DRAWING NO. E 801-TCLC-02

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-03 Short or Intermediate Term Stationary Freeway Right Lane Closure (proposed draft)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. (2) Longitudinal Buffer Length, see table.
3. (3) Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
4. (4) Shoulder taper of ⅓ L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY RIGHT LANE CLOSURE

SEPTEMBER 2026

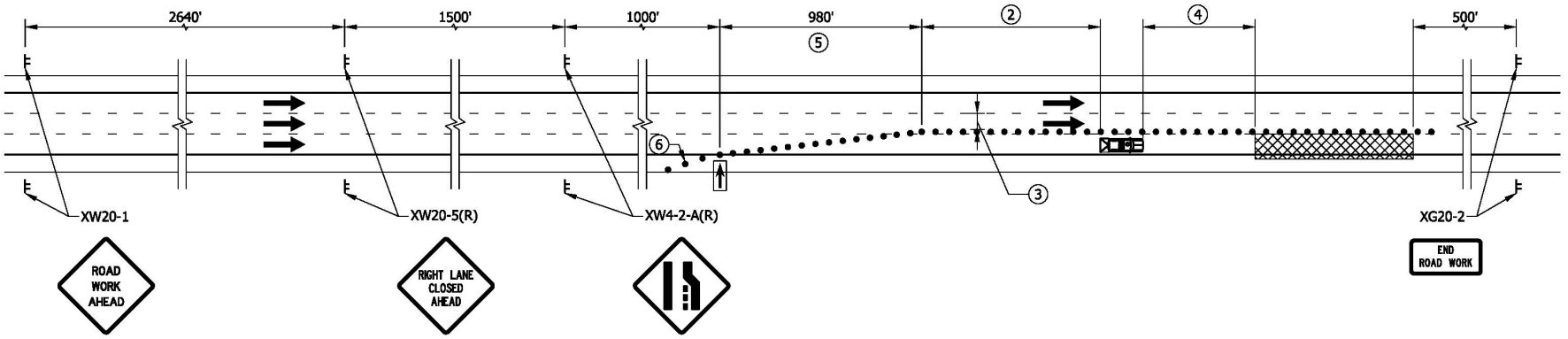
STANDARD DRAWING NO. E 801-TCLC-03

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-04 Short or Intermediate Term Stationary Freeway Right Lane Closure with Minor Encroachment (proposed draft)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. Longitudinal Buffer Length, see table.
3. Lane width shall be a minimum width of 10 ft.
4. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
5. Use a separate shift taper separated by a distance of 2L if a merge taper is wider than 14 ft.
6. Shoulder taper of ⅓ L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY RIGHT LANE CLOSURE WITH MINOR ENCROACHMENT

SEPTEMBER 2026

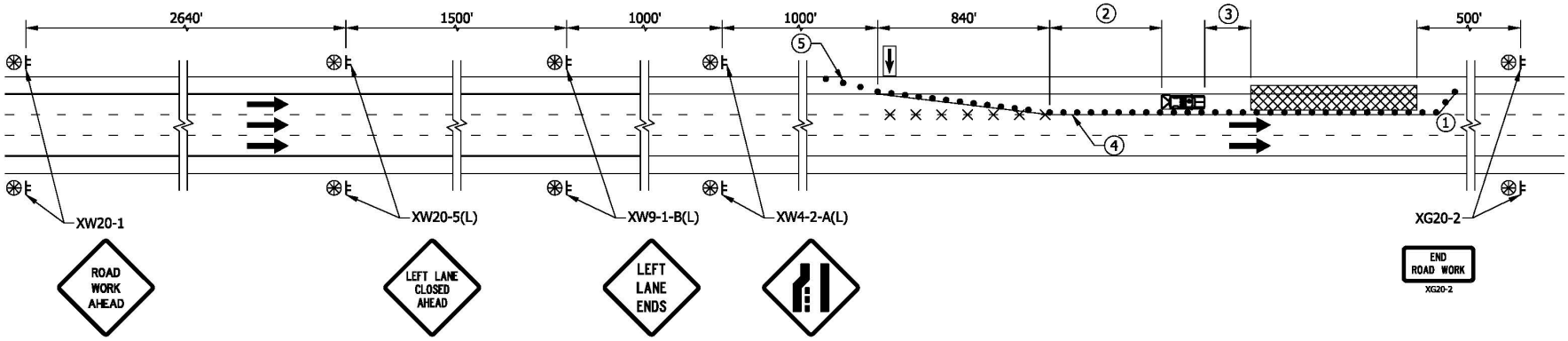
STANDARD DRAWING NO. E 801-TCLC-04

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-05 Long-Term Stationary Freeway Left Lane Closure (proposed draft)



NOTES:

1. The downstream taper after work area shall extend 100 ft of roadway and drums shall be spaced 20 ft. The downstream taper may be omitted if necessary for work vehicle access.
2. Longitudinal Buffer Length, see table
3. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
4. Yellow Edge Line
5. Shoulder taper of ⅓ L. See Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

LONG-TERM STATIONARY FREEWAY
LEFT LANE CLOSURE

SEPTEMBER 2026

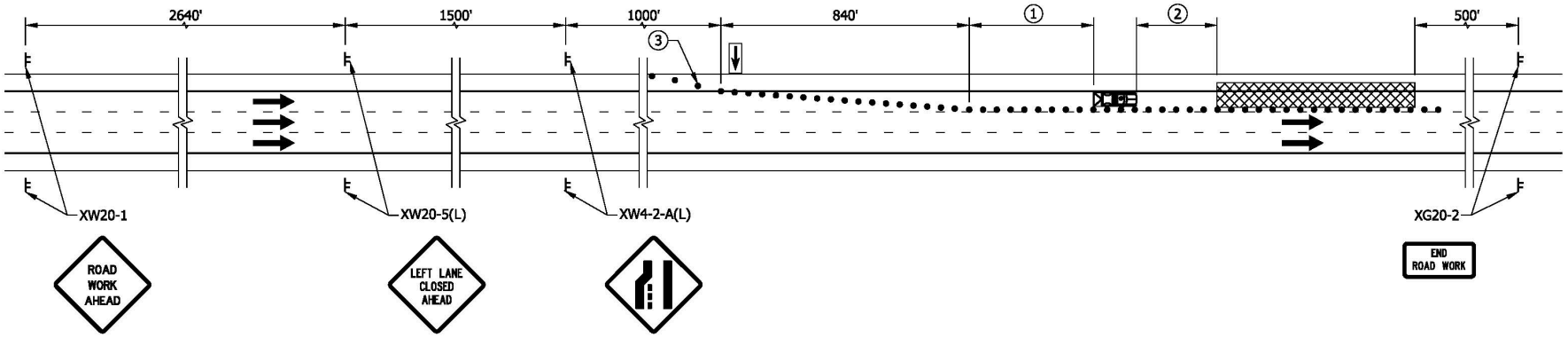
STANDARD DRAWING NO. E 801-TCLC-05

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-06 Short or Intermediate Term Stationary Freeway Left Lane Closure (proposed draft)



NOTES:

① Longitudinal Buffer Length, see table.

② Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.

③ Shoulder taper of ⅓ L. See Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY LEFT LANE CLOSURE

SEPTEMBER 2026

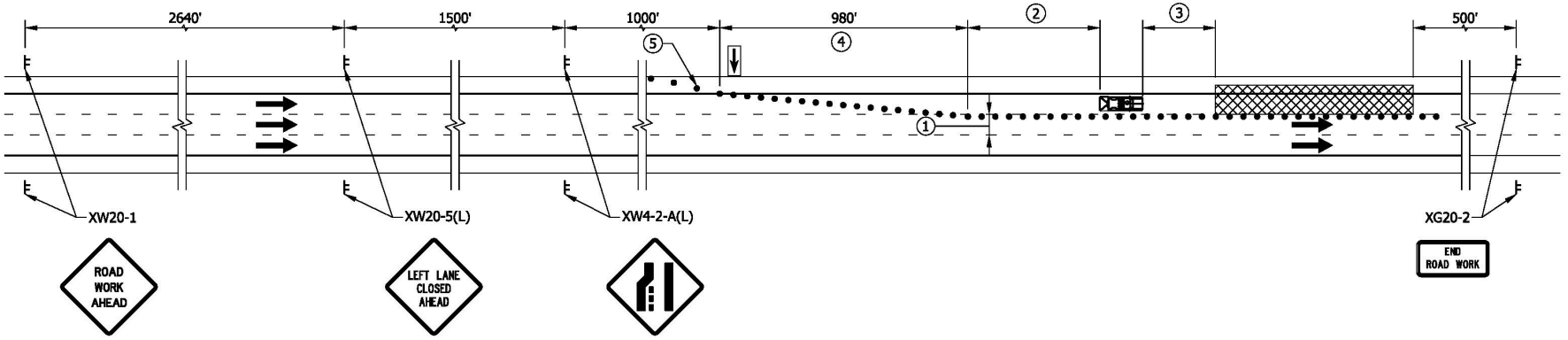
STANDARD DRAWING NO. E 801-TCLC-06

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-07 Short or Intermediate Term Stationary Freeway Left Lane Closure with Minor Encroachment (proposed draft)



NOTES:

1. 10 ft minimum lane width
2. Longitudinal Buffer Length, see table
3. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
4. Use a separate shift taper separated by a distance of 2L if a merge taper is wider than 14 ft.
5. Shoulder taper of ⅓ L, see Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY LEFT LANE CLOSURE WITH MINOR ENCROACHMENT

SEPTEMBER 2026

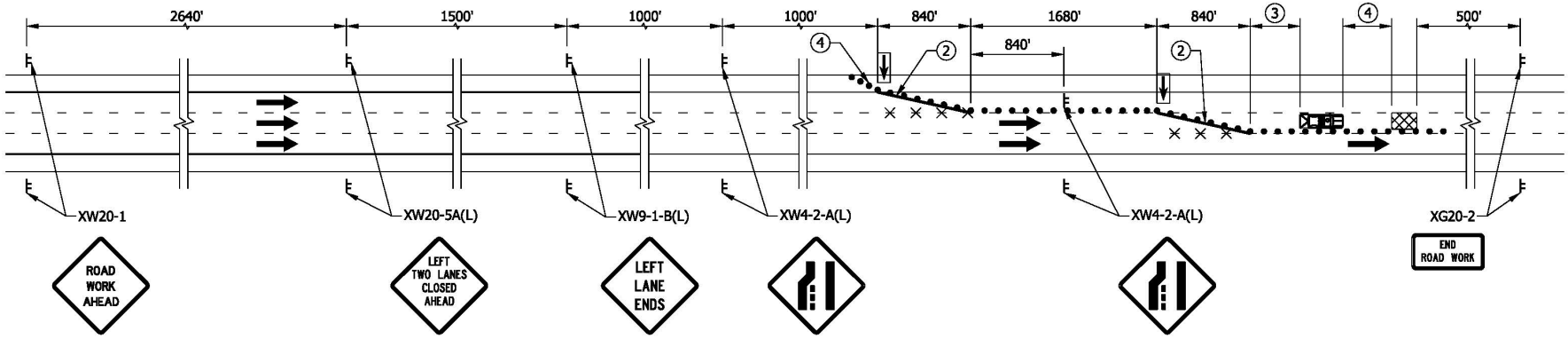
STANDARD DRAWING NO. E 801-TCLC-07

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-08 Short or Intermediate Term Stationary Double Lane Closure Freeway for Work in the Center Lane (proposed draft)



NOTES:

1. Use temporary concrete traffic barrier or reversible lane with moveable barrier in lieu of drums if required by the designer.

(2) Yellow Edge Line

(3) Longitudinal Buffer Length, see table.

(4) Shoulder taper ⅓ L. See Standard Drawing series 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY DOUBLE LANE CLOSURE FOR WORK IN THE CENTER LANE

SEPTEMBER 2026

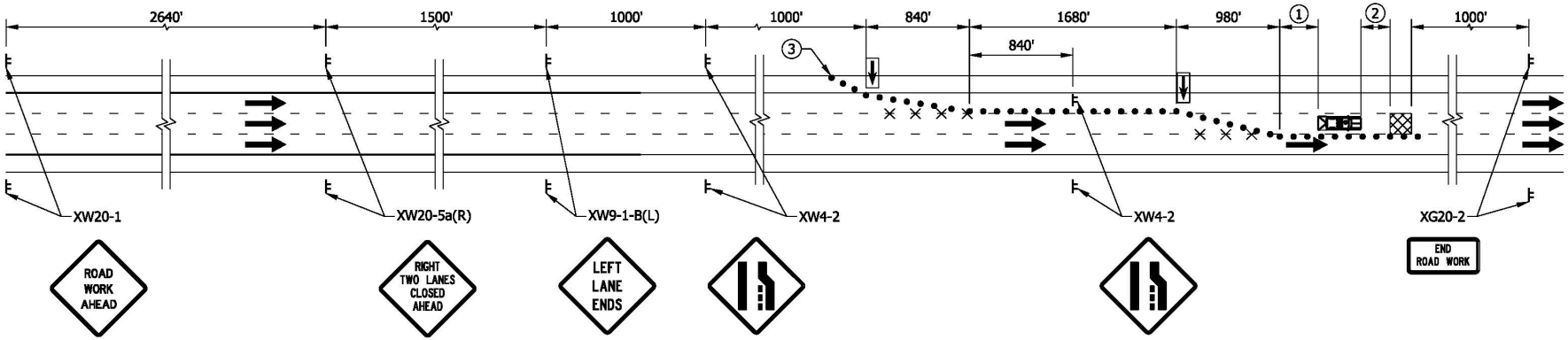
STANDARD DRAWING NO. E 801-TCLC-08

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-09 Short or Intermediate Term Stationary Double Lane Closure Freeway with Minor Encroachment (proposed draft)



NOTES:

1. Longitudinal Buffer Length, see table.
2. Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.
3. Shoulder taper of ⅓ L, see Standard Drawing series E 801-TCDV for distance, L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY DOUBLE LANE CLOSURE WITH MINOR ENCROACHMENT

SEPTEMBER 2026

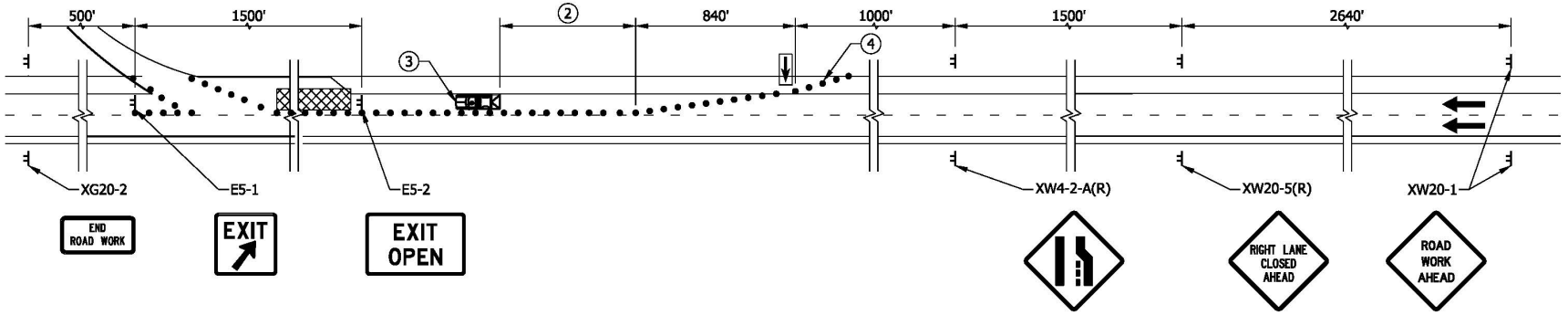
STANDARD DRAWING NO. E 801-TCLC-09

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-10 Short or Intermediate Term Stationary Freeway Right Lane Closure Near Interchange with Exit Open (proposed draft)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.

② Longitudinal Buffer Length, see table.

③ Shadow vehicle roll ahead distance shalll be as recommended by the truck mounted attenuator manufacturer.

④ Shoulder taper of ⅓ L.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY FREEWAY RIGHT LANE CLOSURE NEAR INTERCHANGE WITH EXIT OPEN

SEPTEMBER 2026

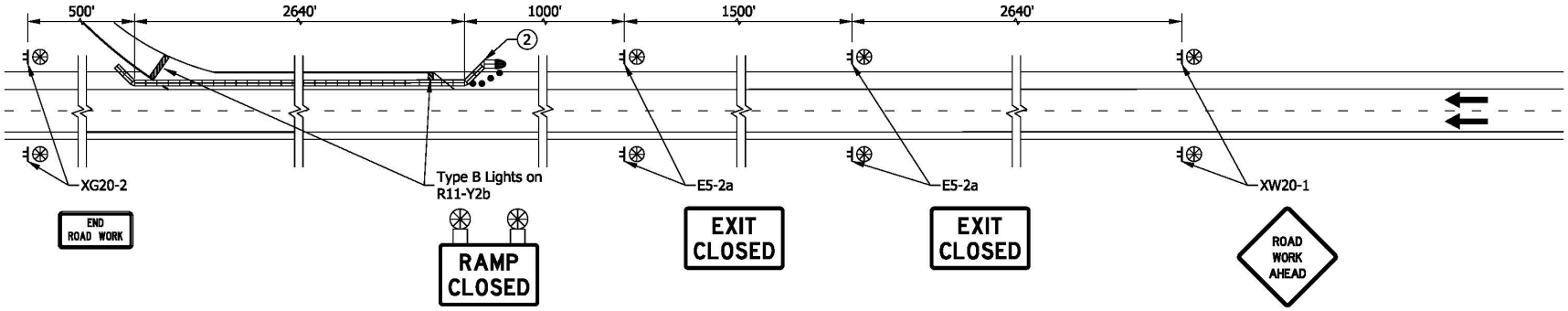
STANDARD DRAWING NO. E 801-TCLC-10

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-11 Traffic Control for Freeway Exit Closure (proposed draft)



NOTES:

1. Temporary traffic barrier shall be used for long-term stationary work. For short-term or intermediate-term stationary work, drums spaced at 20 ft may be used in lieu of temporary traffic barrier.

(2) Flared temporary traffic barrier or approved end treatment flare rate 16:1 to edge of shoulder.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL FOR FREEWAY EXIT CLOSURE

SEPTEMBER 2026

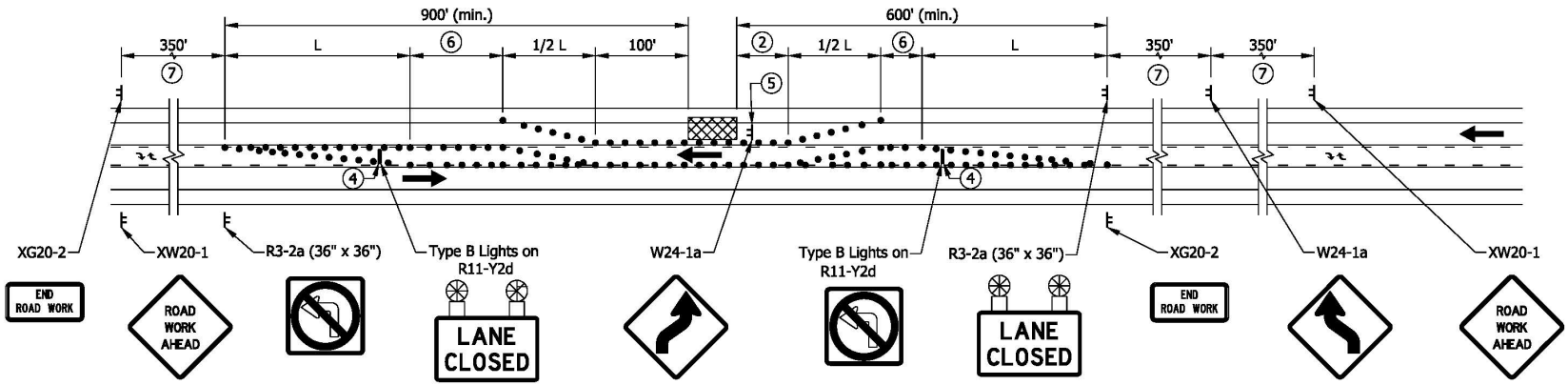
STANDARD DRAWING NO. E 801-TCLC-11

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCLC-12 Short or Intermediate Term Stationary Lane Closure on Three Lane Road (proposed draft)



NOTES:

1. See Standard Drawing series E 801-TCDV for merge distance, L.
2. Longitudinal Buffer Length, see table.
3. R3-2A must be repeated at each intersection and at class 3 and 4 drives.
4. Type III Barricade
5. The lane-shift sign shall be placed 350 ft in advance of the return lane-shift.
6. Access Control Buffer, if required.
7. For urban locations where the speed limit is ≤ 35 mph, the sign spacing may be reduced to 100 ft.

LONGITUDINAL BUFFER LENGTH	
Posted Speed Limit (mph)	Length (ft)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

INDIANA DEPARTMENT OF TRANSPORTATION

SHORT OR INTERMEDIATE TERM STATIONARY LANE CLOSURE ON THREE LANE ROAD

SEPTEMBER 2026

STANDARD DRAWING NO. E 801-TCLC-12

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCTC-01 Temporary Closures, Index and General Notes (no changes)

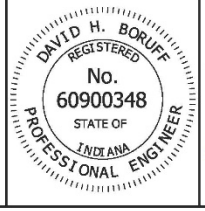
INDEX	
SHEET NO.	SUBJECT
1	Temporary Closures, Index and General Notes
2	Temporary Closures of a Divided Highway
3	Temporary Closure of a Freeway or Expressway with Detour
4	Temporary Closures for Project Following Completion of Grading Contract

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CLOSURES,
INDEX AND GENERAL NOTES

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCTC-01

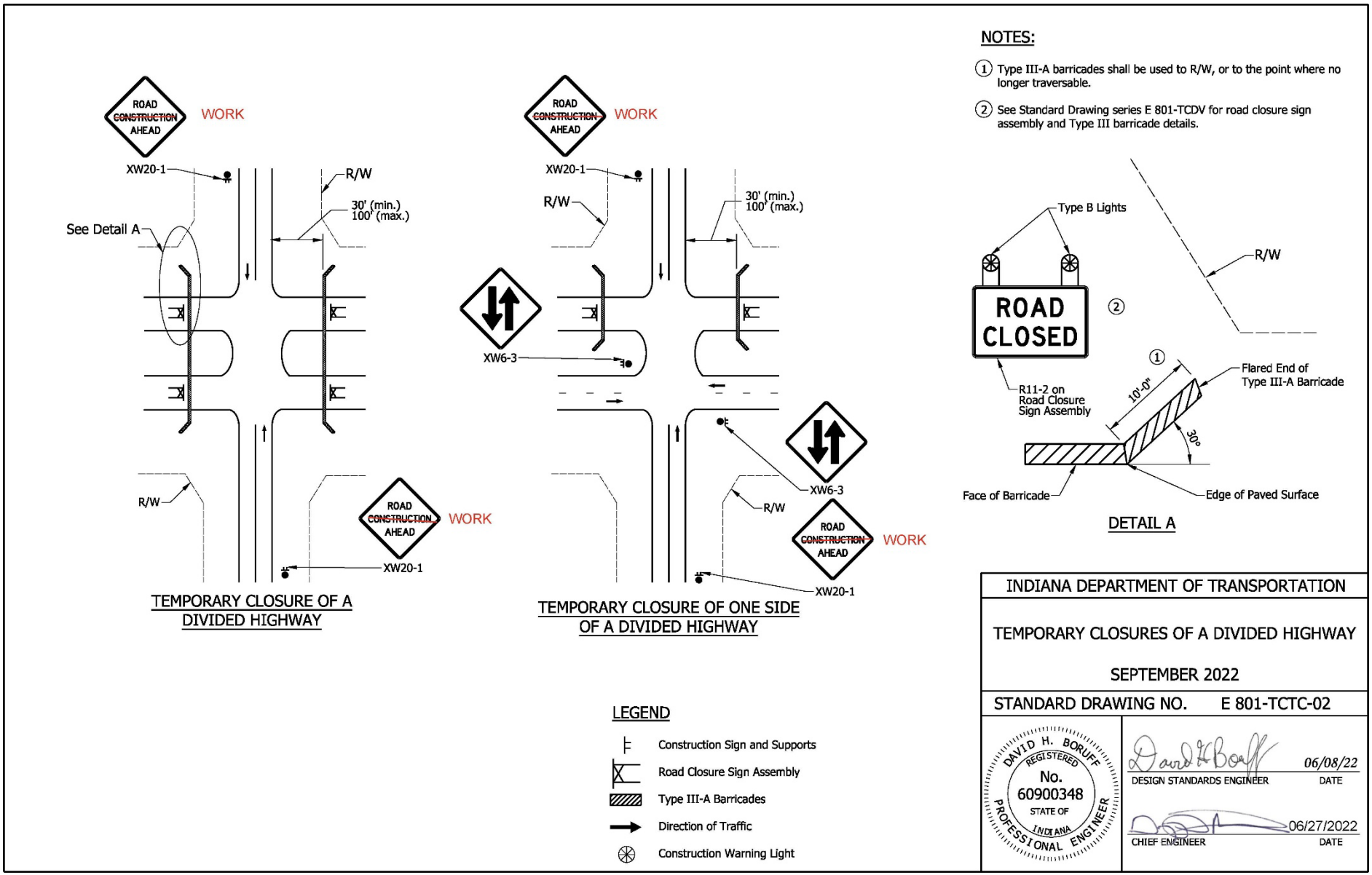


DESIGN STANDARDS ENGINEER — DATE 06/08/22

CHIEF ENGINEER — DATE 06/27/2022

REVISION TO STANDARD DRAWINGS

E 801-TCTC-02 Temporary Closures of a Divided Highway (shown markups)

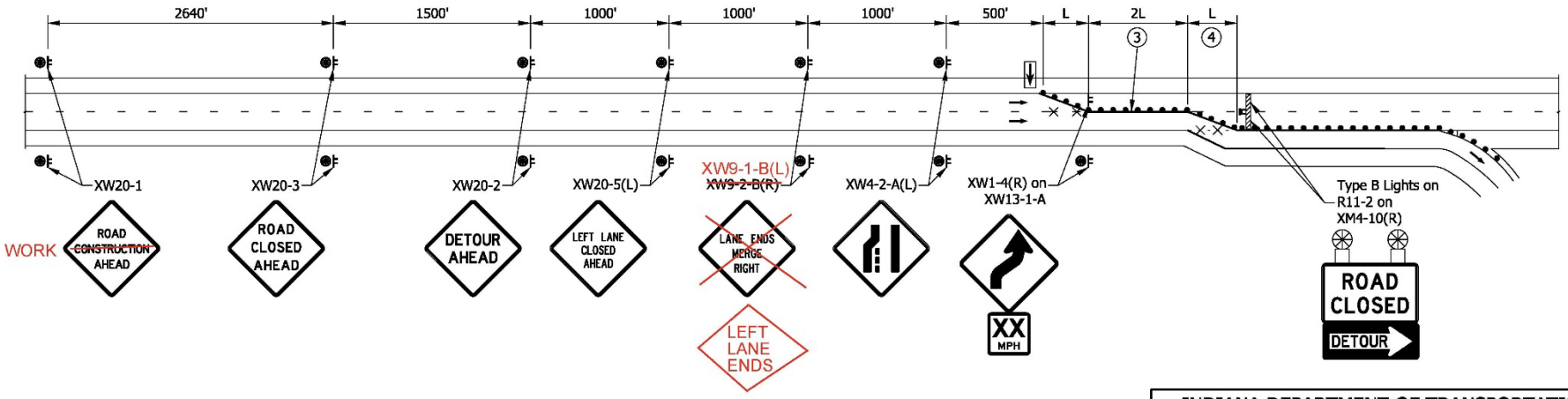


REVISION TO STANDARD DRAWINGS

E 801-TCTC-03 Temporary Closure of a Freeway or Expressway with Detour (shown markups)

NOTES:

1. See Standard Drawing E 801-TCDV-03 for merge distance, L. The value of L on freeways shall be based on 70 mph.
2. Channelizing devices shall not encroach into travel lane.
3. Yellow line, not required for closures ≤ 3 days.
4. Channelizing device spacing in taper shall be 20 ft
5. See Standard Drawing E 801-TCLC-01 for advance signing requirements for interstate applications.



LEGEND

- Flashing Arrow Sign
- Channelizing Device
- Construction Sign and Supports
- Removal of Pavement Markings and Prismatic Reflectors
- Type III-A Barricades
- Direction of Traffic
- Construction Warning Light
- Road Closure Sign Assembly

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CLOSURE OF FREEWAY OR EXPRESSWAY WITH DETOUR

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCTC-03

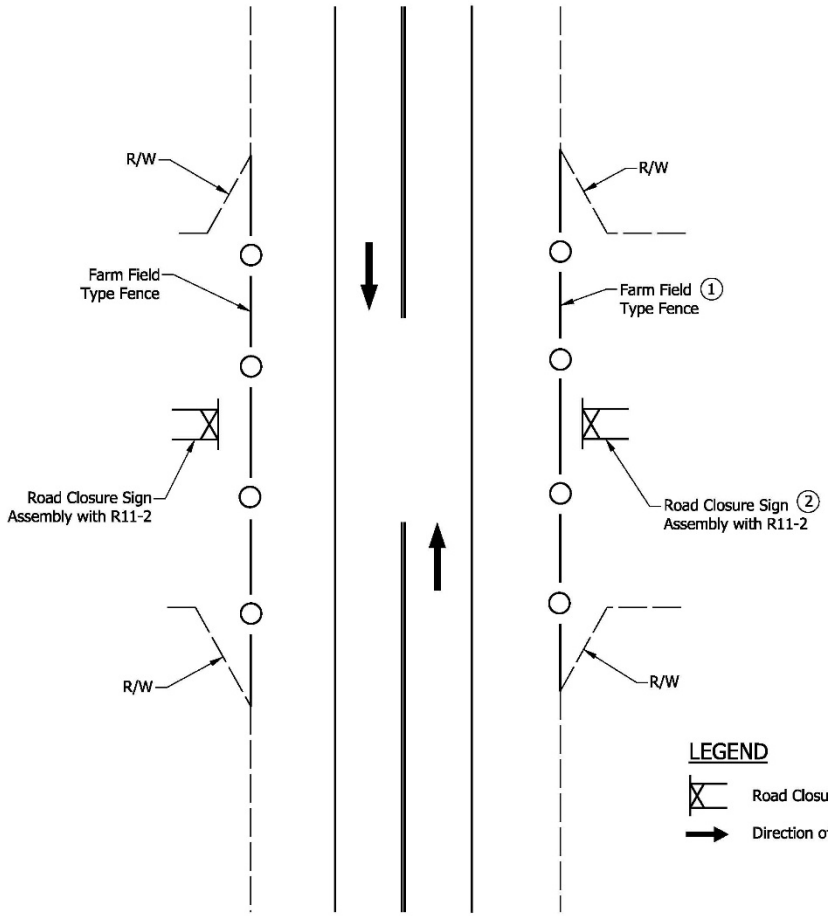
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCTC-04Temporary Closures for Project Following Completion of Grading Contract (no changes)



NOTES:

(1) See Standard Drawing series E 603-FFTF for farm field type fence detail.

(2) See Standard Drawing series E 801-TCDV for Type III barricade and road closure sign assembly detail.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CLOSURES FOR PROJECT FOLLOWING COMPLETION OF GRADING CONTRACT

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCTC-04

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 06/08/22
DESIGN STANDARDS ENGINEER DATE

06/27/2022
CHIEF ENGINEER DATE

E 801-TCTC-01 Temporary Closures, Index and General Notes (proposed draft)

INDEX

INDIANA DEPARTMENT OF TRANSPORTATION

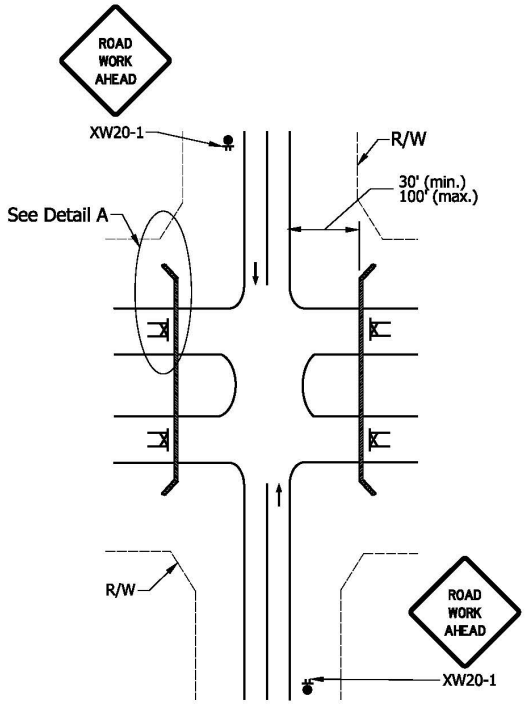
TEMPORARY CLOSURES,
INDEX AND GENERAL NOTES

SEPTEMBER 2026

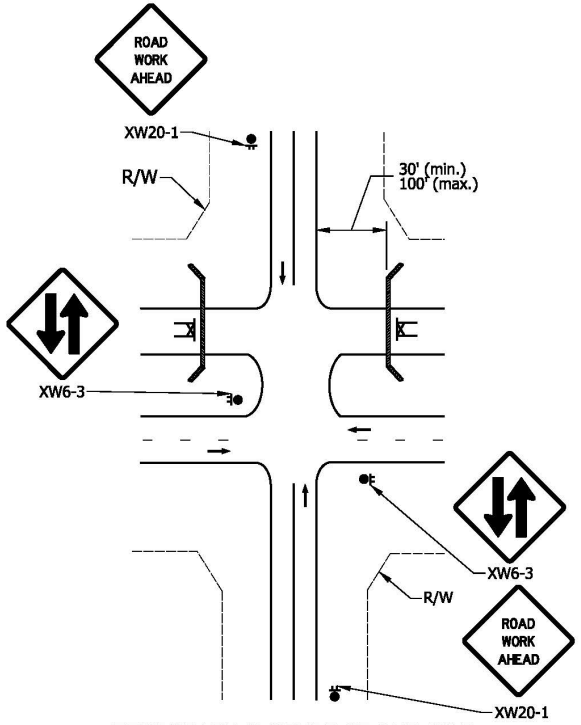
STANDARD DRAWING NO. E 801-TCTC-01

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE



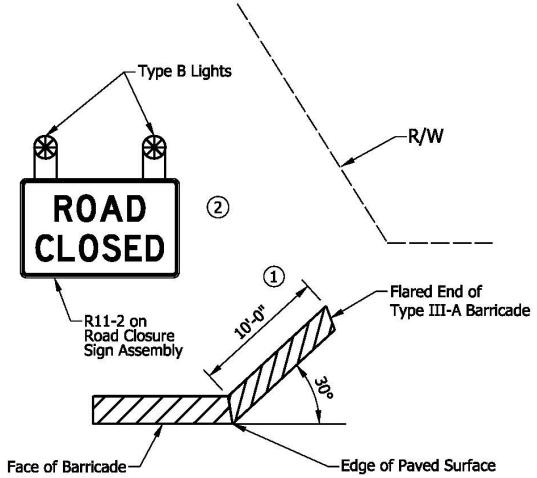
TEMPORARY CLOSURE OF A DIVIDED HIGHWAY



TEMPORARY CLOSURE OF ONE SIDE OF A DIVIDED HIGHWAY

NOTES:

1. Type III-A barricades shall be used to R/W, or to the point where no longer traversable.
2. See Standard Drawing series E 801-TCDV for road closure sign assembly and Type III barricade details.



DETAIL A

LEGEND

- Construction Sign and Supports
- Road Closure Sign Assembly
- Type III-A Barricades
- Direction of Traffic
- Construction Warning Light

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY CLOSURES OF A DIVIDED HIGHWAY	
SEPTEMBER 2026	
STANDARD DRAWING NO. E 801-TCTC-02	
	DESIGN STANDARDS ENGINEER DATE
	CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCTC-03 Temporary Closure of a Freeway or Expressway with Detour (proposed draft)

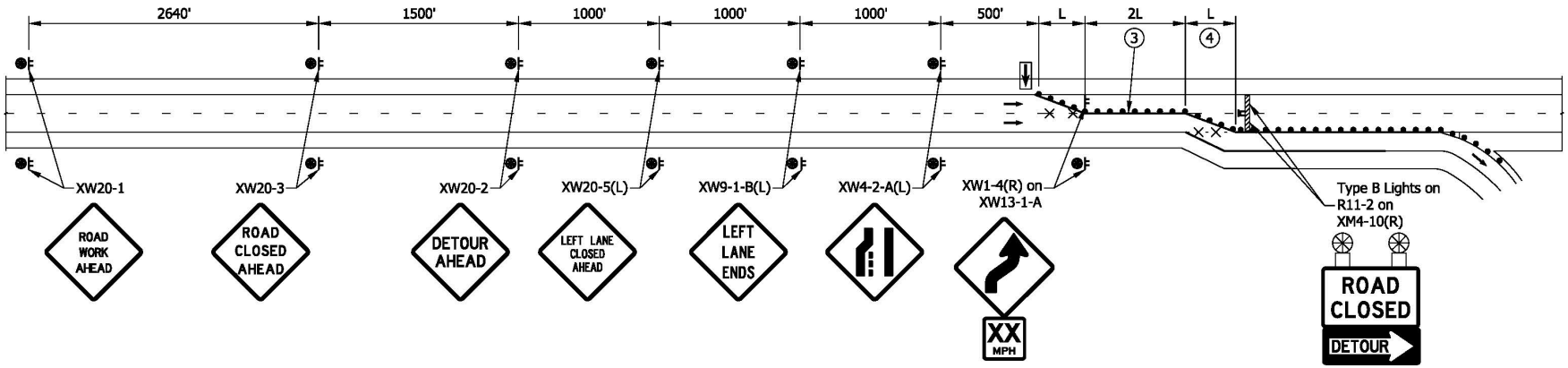
NOTES:

1. See Standard Drawing E 801-TCDV-03 for merge distance, L. The value of L on freeways shall be based on 70 mph.
2. Channelizing devices shall not encroach into travel lane.

(3) Yellow line, not required for closures ≤ 3 days.

(4) Channelizing device spacing in taper shall be 20 ft

5. See Standard Drawing E 801-TCLC-01 for advance signing requirements for interstate applications.



LEGEND

- Flashing Arrow Sign
- Channelizing Device
- Construction Sign and Supports
- Removal of Pavement Markings and Prismatic Reflectors
- Type III-A Barricades
- Direction of Traffic
- Construction Warning Light
- Road Closure Sign Assembly

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CLOSURE OF FREEWAY OR EXPRESSWAY WITH DETOUR

SEPTEMBER 2026

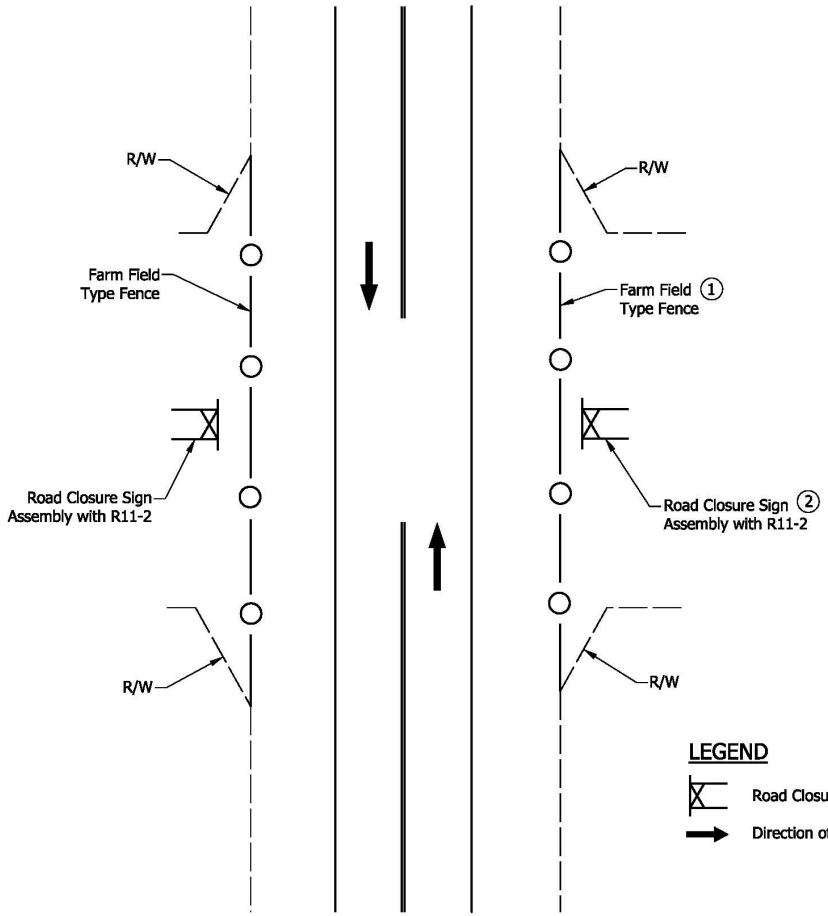
STANDARD DRAWING NO. E 801-TCTC-03

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TCTC-04Temporary Closures for Project Following Completion of Grading Contract (proposed draft)



NOTES:

① See Standard Drawing series E 603-FFTF for farm field type fence detail.

② See Standard Drawing series E 801-TCDV for Type III barricade and road closure sign assembly detail.

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY CLOSURES FOR PROJECT FOLLOWING COMPLETION OF GRADING CONTRACT SEPTEMBER 2026	
STANDARD DRAWING NO. E 801-TCTC-04	
	DESIGN STANDARDS ENGINEER DATE CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-01 Index and General Notes

INDEX	
SHEET NO.	SUBJECT - TEMPORARY PEDESTRIAN ACCESS ROUTES
1	Index and General Notes
2	Pedestrian Detour Corner Closure
3	Pedestrian Detour Crosswalk Closure
4	Pedestrian Detour Full Block Closure
5	Pedestrian Detour Multi-Block Closure
6	Pedestrian Detour Midblock Closure
7	Pedestrian Detour Midblock Closure with Temporary Crossing
8	Pedestrian Diversion, Streetside at Intersection
9	Pedestrian Diversion, Right-of-way Side
10	Temporary Curb Ramps
11	Temporary Pedestrian Channelizers

GENERAL NOTES:

1. Signs, railings, or other objects may protrude a maximum of 4 inches into the walkway clear area when located 27 inches minimum above the walkway surface.
2. Any construction signs placed in the sidewalk shall include supports with detectable edging in accordance with Part 6 of the MUTCD.
3. Audible information devices, when specified, shall be a minimum of 15 ft apart and may be mounted on channelizing devices, pedestrian channelizers, or on an independent support post. Audible information devices shall not reduce the width of a temporary pedestrian access route to less than 4 ft. Placement of audible information devices shall be as shown on the plans or as directed by the Engineer.
4. Pedestrian traffic signal displays controlling closed crosswalks shall be covered or deactivated.
5. Type A flashing warning lights may be omitted on pedestrian channelizers that support signs and closed sidewalks during daytime only closures.
6. Construction signs shall not reduce the available width of a temporary pedestrian access route to less than 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-01

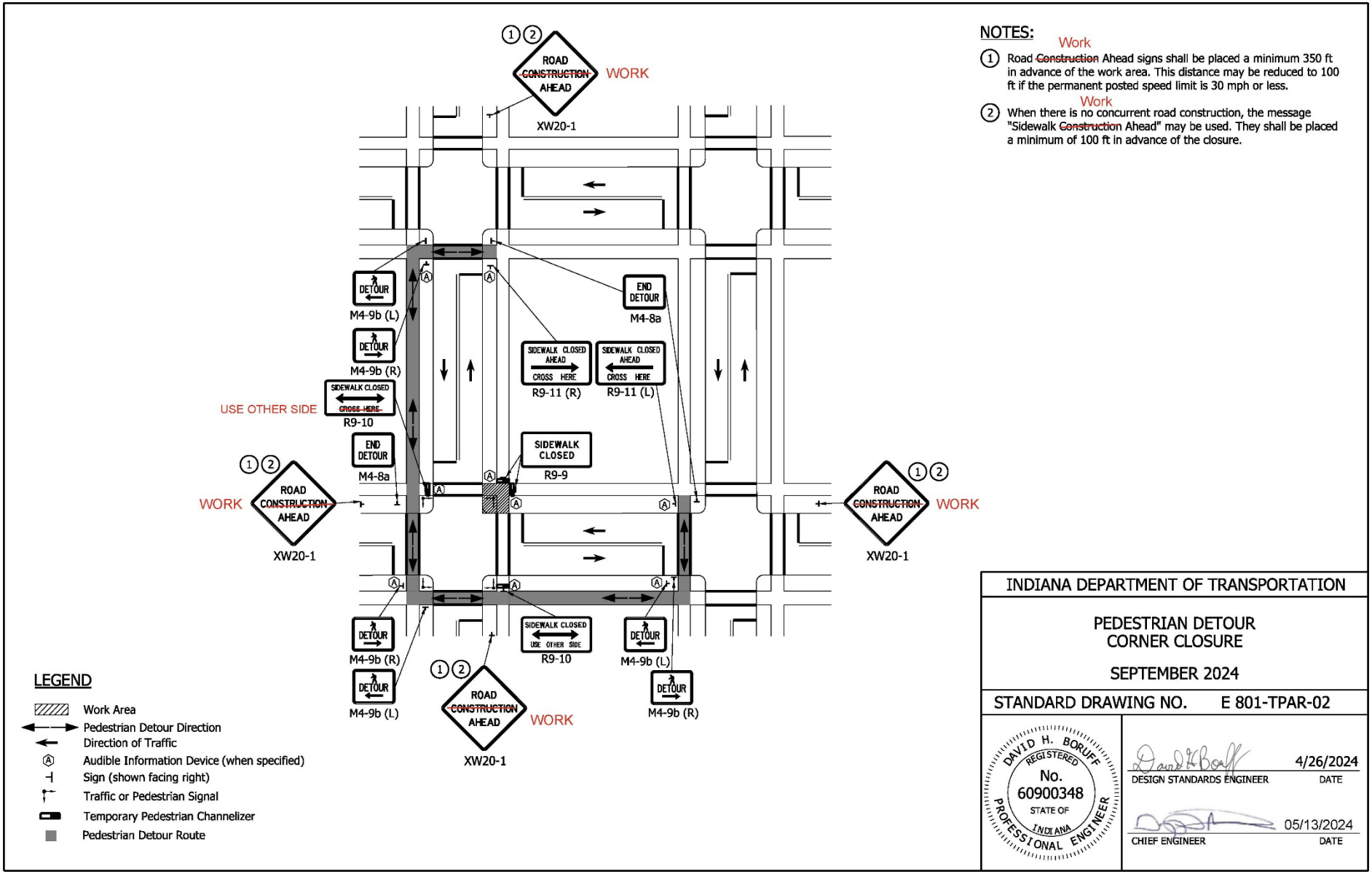
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-02 Pedestrian Detour Corner Closure (shown markups)



NOTES:

1. Road ~~Construction~~ Work Ahead signs shall be placed a minimum 350 ft in advance of the work area. This distance may be reduced to 100 ft if the permanent posted speed limit is 30 mph or less.
2. When there is no concurrent road construction, the message "Sidewalk ~~Construction~~ Work Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
CORNER CLOSURE

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-02

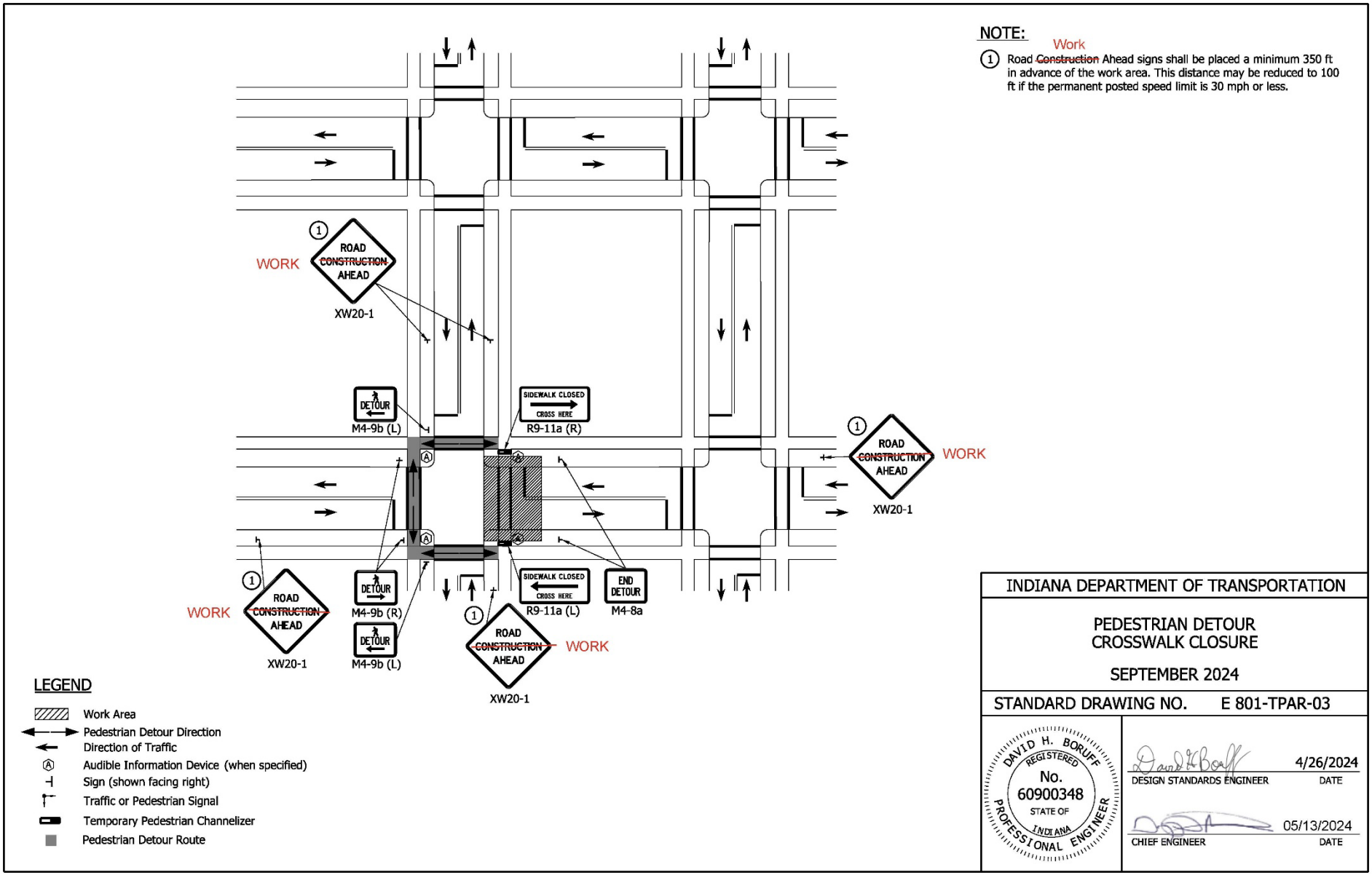
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — 4/26/2024 DATE

CHIEF ENGINEER — 05/13/2024 DATE

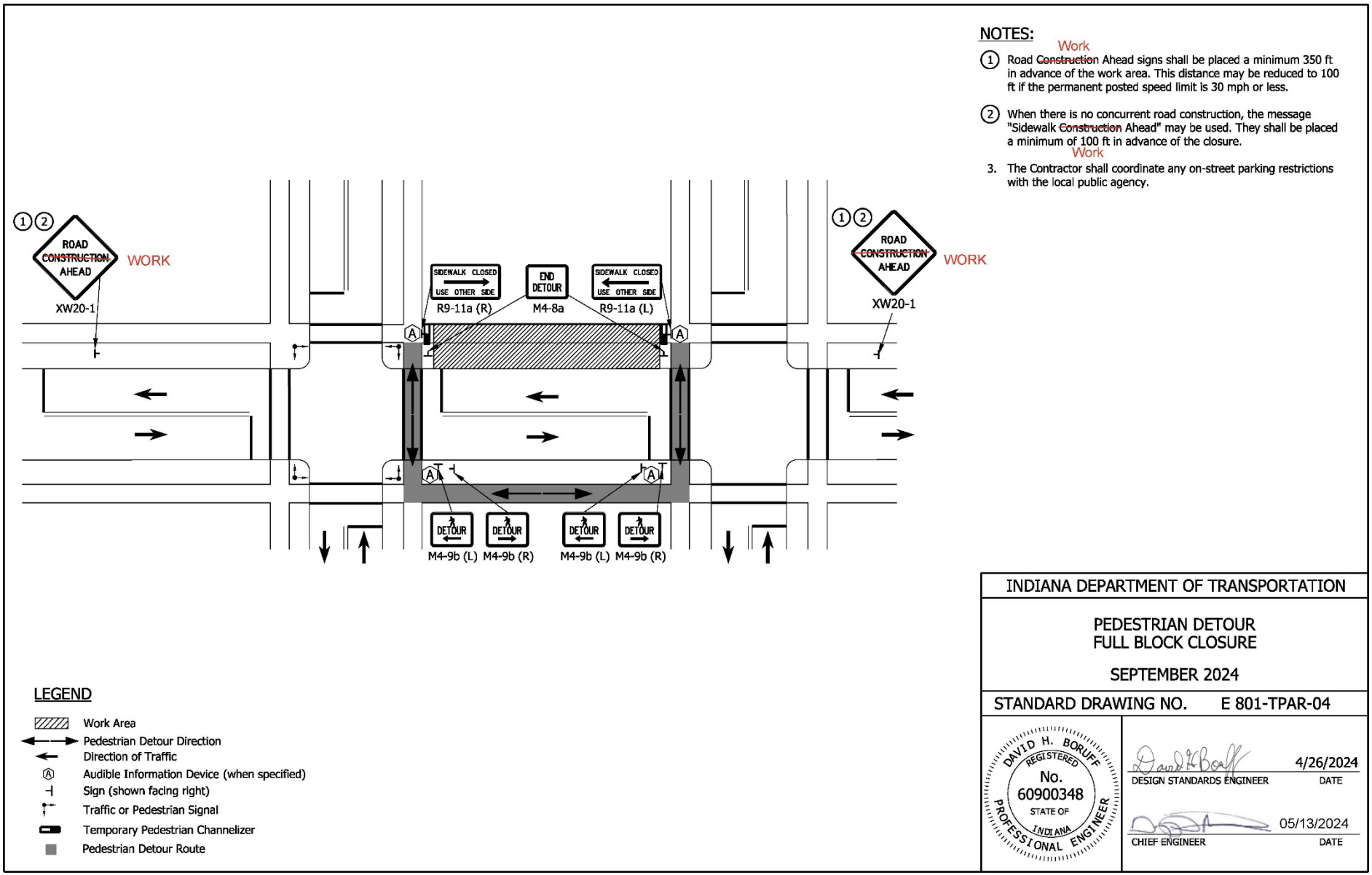
REVISION TO STANDARD DRAWINGS

E 801-TRAR-03 Pedestrian Detour Crosswalk Closure (shown markups)



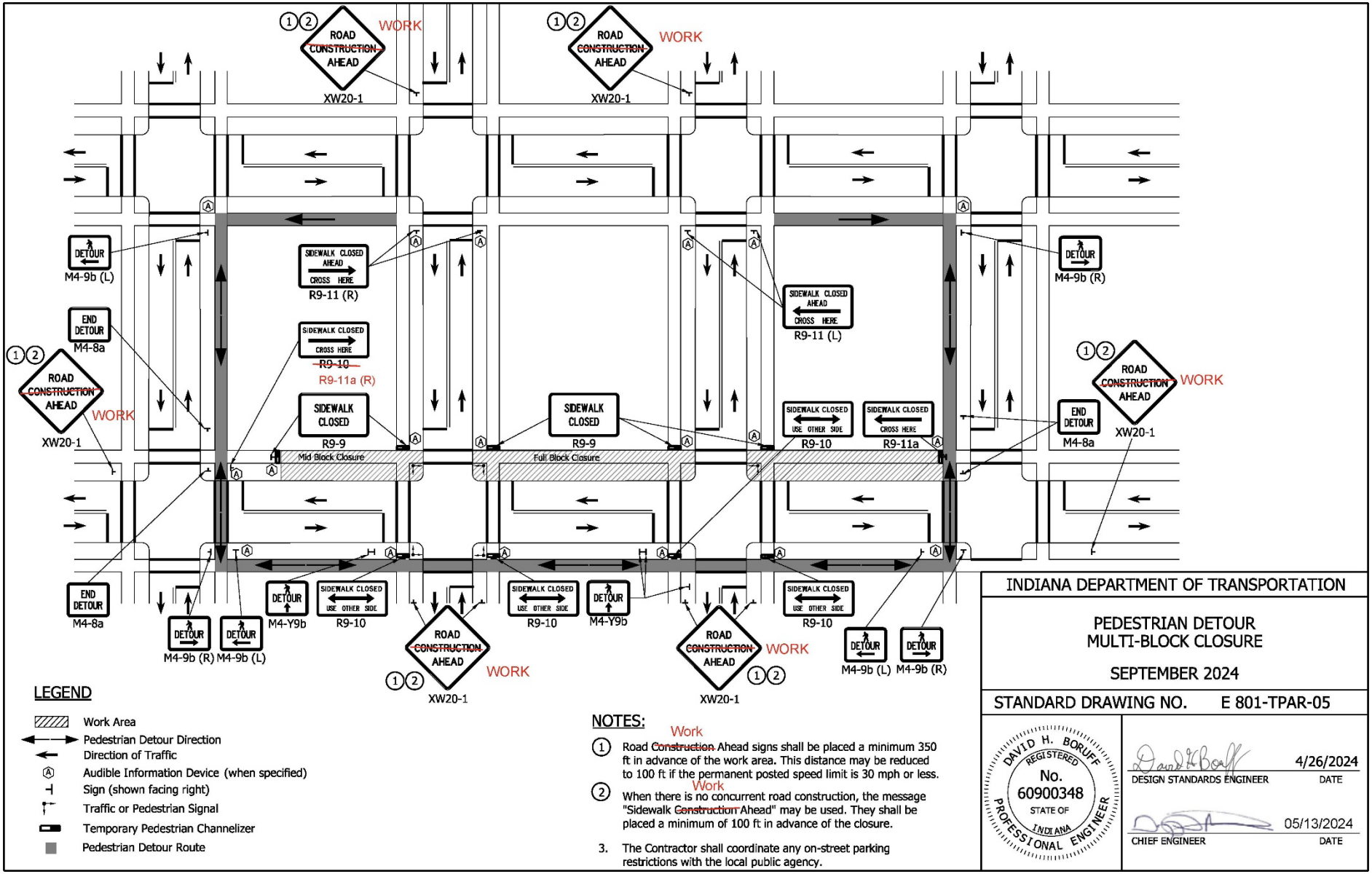
REVISION TO STANDARD DRAWINGS

E 801-TRAR-04 Pedestrian Detour Full Block Closure (shown markups)



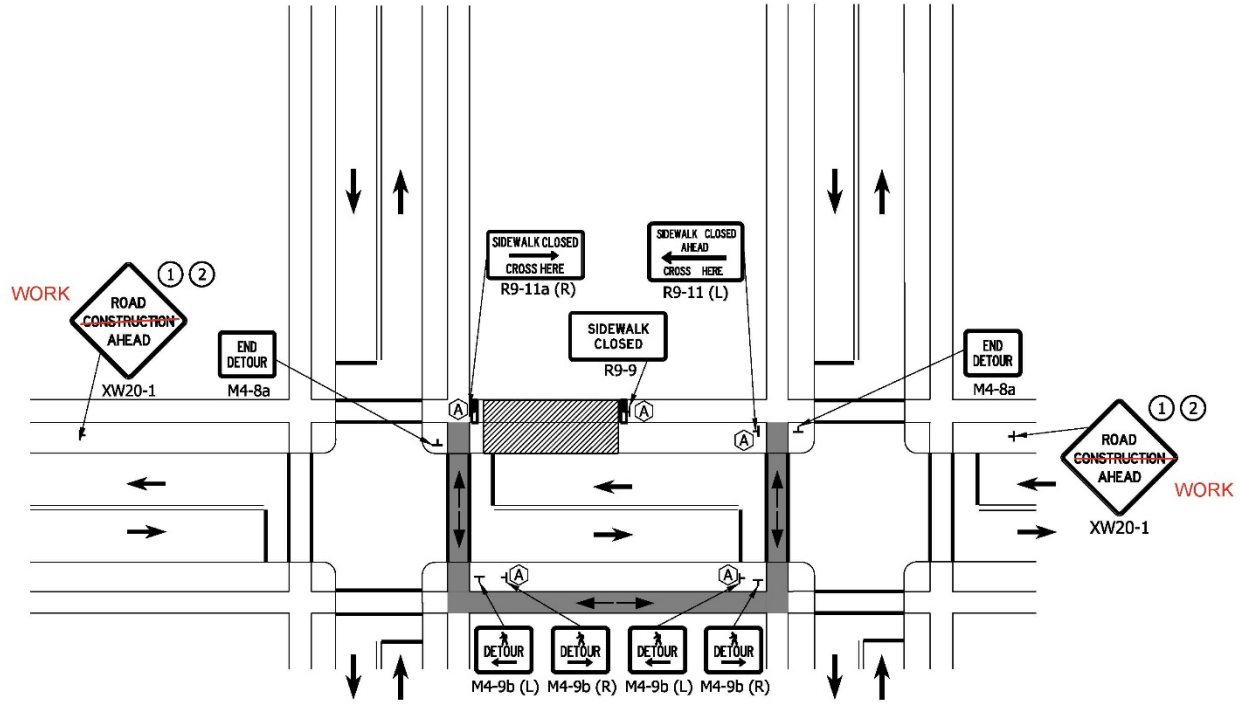
REVISION TO STANDARD DRAWINGS

E 801-TRAR-05 Pedestrian Detour Multi-Block Closure (shown markups)



REVISION TO STANDARD DRAWINGS

E 801-TRAR-06 Pedestrian Detour Midblock Closure (shown markups)



NOTES:

1. Road ~~Construction~~ Work Ahead signs shall be placed a minimum 350 ft in advance of the work area. This distance may be reduced to 100 ft if the permanent posted speed limit is 30 mph or less.
2. When there is no concurrent road construction, the message "Sidewalk ~~Construction~~ Work Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.
3. The Contractor shall coordinate any on-street parking restrictions with the local public agency.

LEGEND

- Work Area
- Pedestrian Detour Direction
- Direction of Traffic
- Audible Information Device (when specified)
- Sign (shown facing right)
- Traffic or Pedestrian Signal
- Temporary Pedestrian Channelizer
- Pedestrian Detour Route

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
MIDBLOCK CLOSURE

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-06

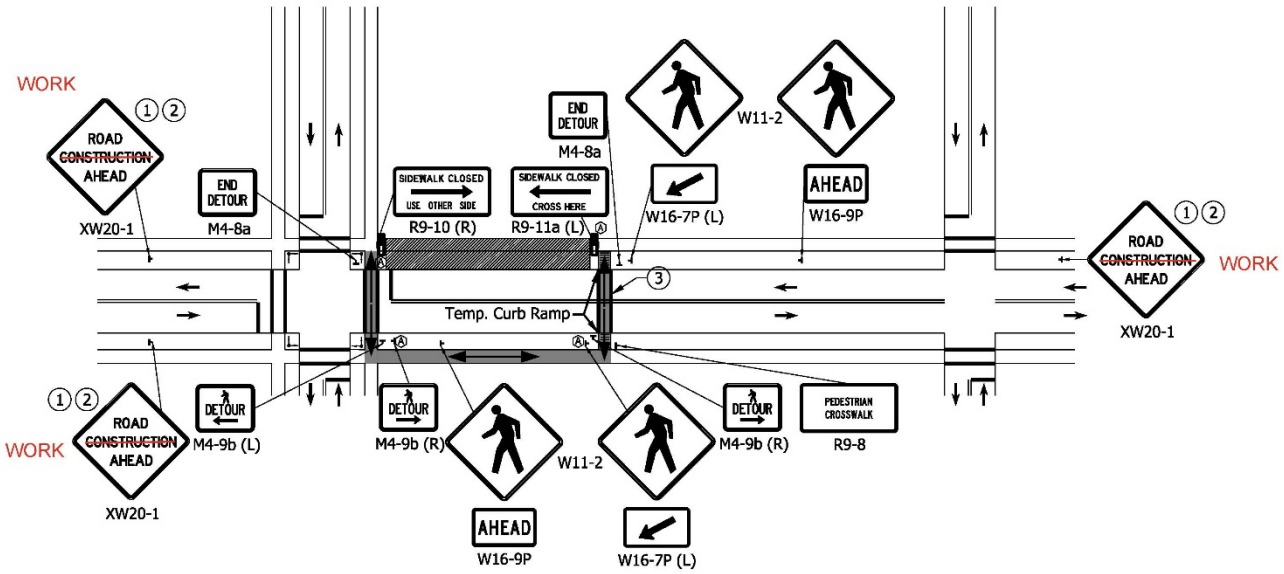
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-07 Pedestrian Detour Midblock Closure with Temporary Crossing (shown markups)



NOTES:

1. Road ~~Construction~~ Work Ahead and Crosswalk Ahead signs shall be placed a minimum 500 ft and 350 ft, respectively, in advance of the work area. This distance may be reduced to 200 ft and 100 ft, respectively, if the permanent posted speed limit is 30 mph or less.
2. When there is no concurrent road construction, the message "Sidewalk ~~Construction~~ Work Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.
3. White temporary crosswalk lines shall be a minimum of 6 inches in width and written approval from the District Traffic Engineer is required prior to placing the crosswalk lines and W11-2 and W16-7P sign assemblies.
4. The Contractor shall coordinate any on-street parking restrictions with the local public agency.
5. A temporary crossing shall not be used if the AADT is > 12,000 or when there is an adjacent intersection with crosswalks within one block.

LEGEND

- Work Area
- Pedestrian Detour Direction
- Direction of Traffic
- Audible Information Device (when specified)
- Sign (shown facing right)
- Traffic or Pedestrian Signal
- Temporary Pedestrian Channelizer
- Pedestrian Detour Route
- Temp. Curb Ramp

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
TEMPORARY MIDBLOCK CLOSURE
WITH TEMPORARY CROSSING
SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-07

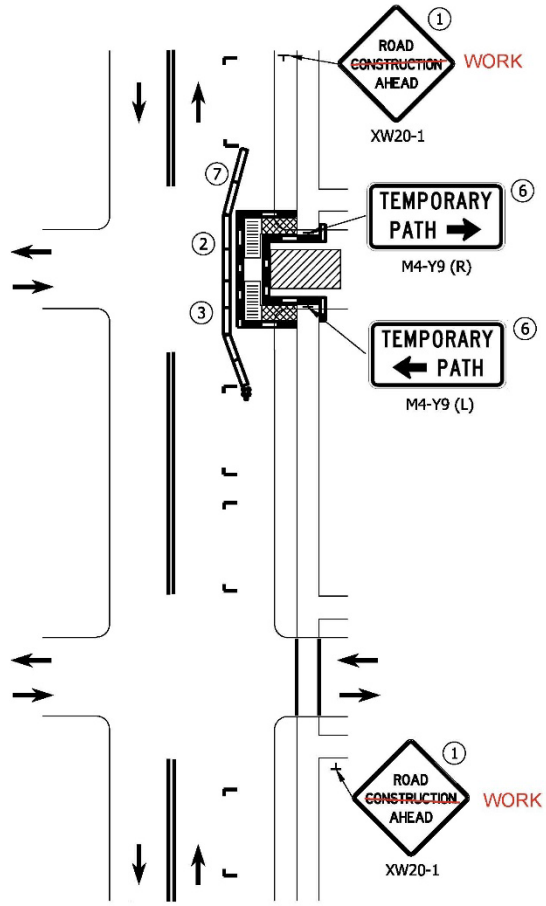
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-08 Pedestrian Diversion, Streetside at Intersection (shown markups)



NOTES:

1. Road ~~construction~~ work ahead signs shall be placed a minimum 350 ft in advance of the work area. The distance may be reduced to 100 ft if the permanent posted speed limit is 30 mph or less.
2. See E 801-TCTC Series for temporary road closure signage.
3. For nighttime closures, Type A Flashing warning lights shall be used on barricades that support signs and close sidewalks.
4. Type 2 Temporary Traffic Barrier shall be used in addition to the temporary pedestrian channelizer, if the posted speed limit is 35 mph or greater.
5. Any pedestrian devices used to provide positive protection (traffic or hazard) for pedestrians or workers shall be Type 2 Temporary Traffic Barrier.
6. When specified, M4-Y9 signs shall be 24" x 12" with 3 inch C series font and a 6" x 4" arrow.
7. See Standard Drawing series 801-TCCB for Temporary Traffic Barrier flare rate.

LEGEND

- Work Area
- Direction of Traffic
- Temp Access Path
- Sign (shown facing right)
- Temporary Pedestrian Channelizer
- Temp. Curb Ramp
- Traffic Barrier (when specified)
- Crash Cushion (when specified)

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DIVERSION,
STREETSIDE AT INTERSECTION

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-08

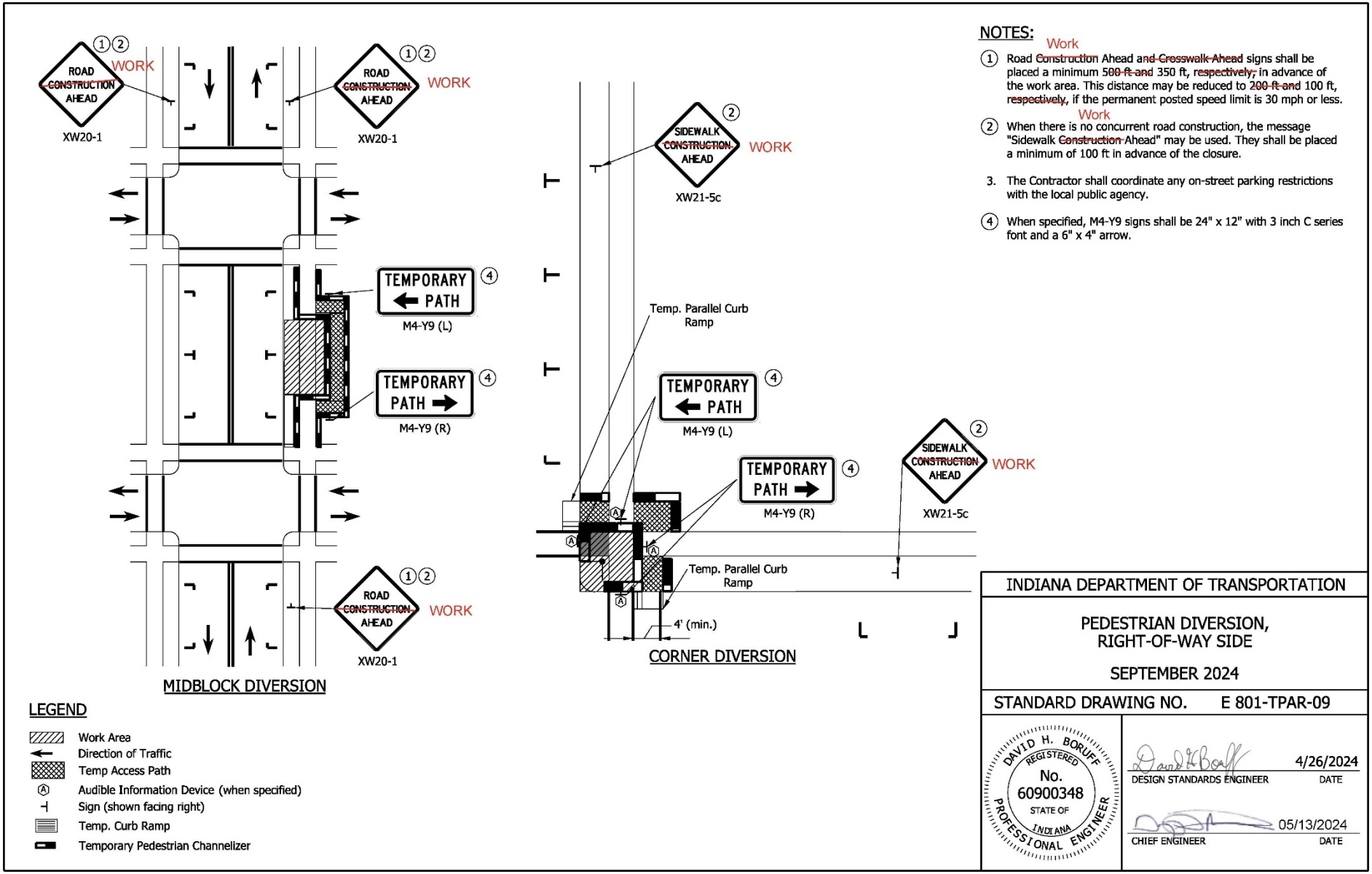
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — 4/26/2024 DATE

CHIEF ENGINEER — 05/13/2024 DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-09 Pedestrian Diversion, Right-of-way Side (shown markups)



NOTES:

1. Road ~~Construction~~ Ahead a~~nd Crosswalk Ahead~~ signs shall be placed a minimum ~~500 ft and~~ 350 ft, ~~respectively,~~ in advance of the work area. This distance may be reduced to ~~200 ft and~~ 100 ft, ~~respectively~~, if the permanent posted speed limit is 30 mph or less.
2. When there is no concurrent road construction, the message "Sidewalk ~~Construction~~ Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.
3. The Contractor shall coordinate any on-street parking restrictions with the local public agency.
4. When specified, M4-Y9 signs shall be 24" x 12" with 3 inch C series font and a 6" x 4" arrow.

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DIVERSION, RIGHT-OF-WAY SIDE

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-09

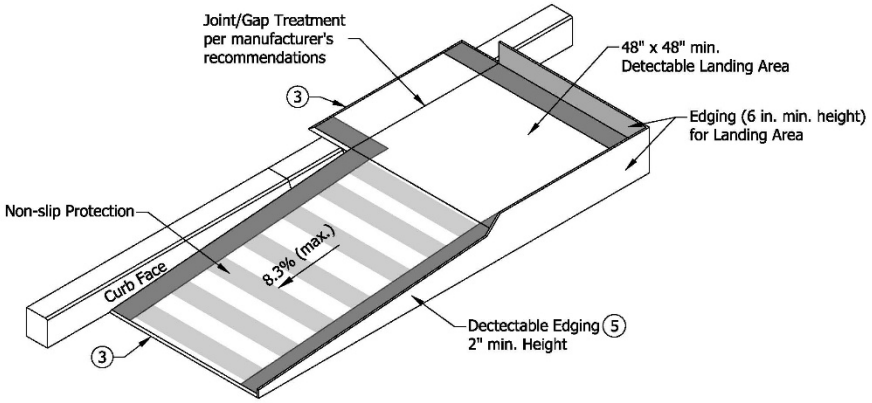
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

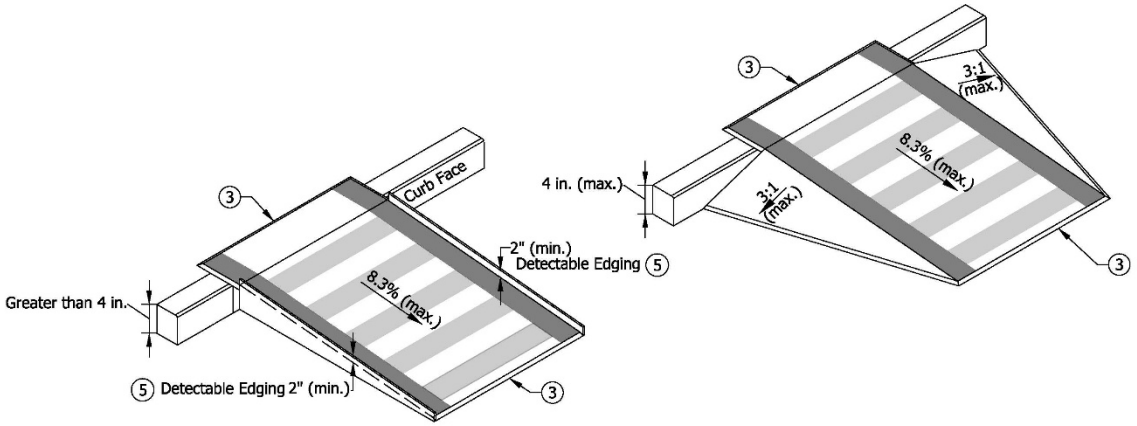
05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-10 Temporary Curb Ramps (no changes)



Temporary Curb Ramp - Parallel to Curb



Temporary Curb Ramp - Perpendicular to Curb

NOTES:

1. Water flow in the gutter system shall be maintained.
2. Lateral joints or gaps between surfaces shall be less than 0.5 in. width.
3. Changes in level between surface heights shall not exceed 0.5 in. Lateral edges shall be vertical up to 0.25 in. high, and beveled at 2:1 between 0.25 in. and 0.5 in. in height
4. Handrail shall be provided along a landing area and ramp where the elevation difference between the sidewalk and the street is greater than 6.0 in.
5. A 2.0 in. detectable edge shall be provided along the entire length of the ramp where the elevation difference between the sidewalk and the street is greater than 4.0 in.
6. The rise of a single temporary curb ramp shall be no more than 30 in. If more than one temporary curb ramp is needed at a location due to the change in elevation, a minimum 5 ft landing area shall be used between curb ramps. The landing area shall have a slope of less than 2.0%.
7. The table below is for common curb heights, the curb ramp length for other curb heights shall be based on having a maximum slope of 12:1.

Curb Height (in.)	Minimum Temporary Curb Ramp Length (ft)
3	3
4	4
5	5
6	6

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CURB RAMPS

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-10

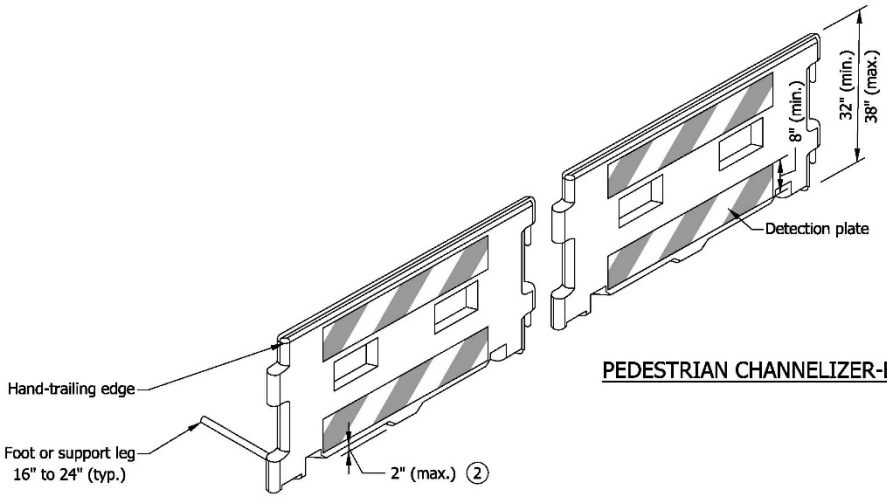
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

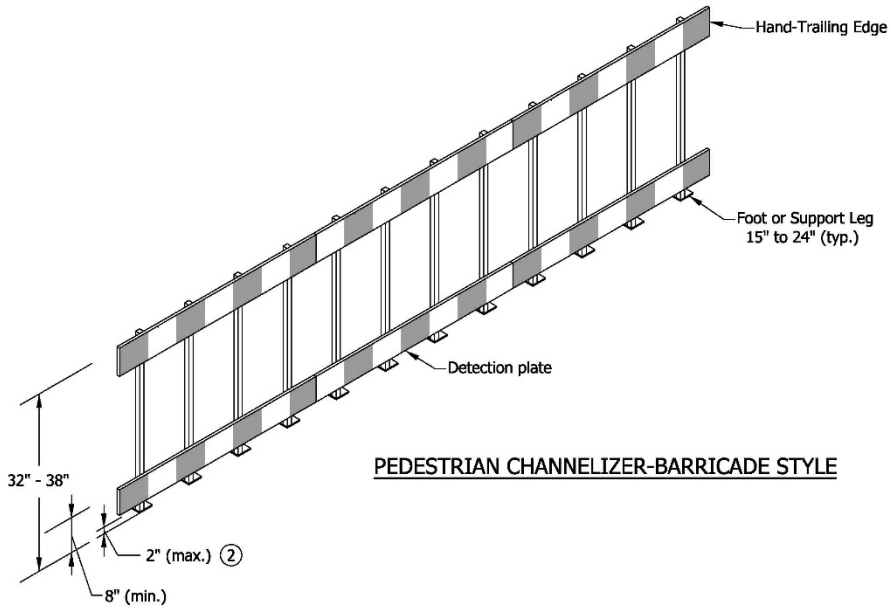
05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TRAR-11 Temporary Pedestrian Channelizers (no chamges)



PEDESTRIAN CHANNELIZER-BARRIER STYLE



PEDESTRIAN CHANNELIZER-BARRICADE STYLE

NOTES:

1. Ballast shall be located behind or internal to the device. Any support on the front of the device shall not extend into the 48 in. minimum walkway clear space and shall have 0.25 in. max. height above the walkway surface.
2. Devices shall not block water drainage from the walkway. A gap height or opening from the walkway surface up to 2 in. max. height is allowed for drainage purposes.
3. Type III Barricades shall not be used as pedestrian channelizers.
4. The hand-trailing edge and detection plate shall have alternating orange and white reflective sheeting oriented vertically or at a 45° angle.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY PEDESTRIAN CHANNELIZERS

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-11

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TPAR-01Temporary Pedestrian Access Routes, Index and General Notes (proposed draft)

INDEX	
SHEET NO.	SUBJECT - TEMPORARY PEDESTRIAN ACCESS ROUTES
1	Temporary Pedestrian Access Routes, Index and General Notes
2	Pedestrian Detour Corner Closure
3	Pedestrian Detour Crosswalk Closure
4	Pedestrian Detour Full Block Closure
5	Pedestrian Detour Multi-Block Closure
6	Pedestrian Detour Midblock Closure
7	Pedestrian Detour Midblock Closure with Temporary Crossing
8	Pedestrian Diversion, Streetside at Intersection
9	Pedestrian Diversion, Right-of-way Side
10	Temporary Curb Ramps
11	Temporary Pedestrian Channelizers

GENERAL NOTES:

1. Signs, railings, or other objects may protrude a maximum of 4 inches into the walkway clear area when located 27 inches minimum above the walkway surface.
2. Any construction signs placed in the sidewalk shall include supports with detectable edging in accordance with Part 6 of the MUTCD.
3. Audible information devices, when specified, shall be a minimum of 15 ft apart and may be mounted on channelizing devices, pedestrian channelizers, or on an independent support post. Audible information devices shall not reduce the width of a temporary pedestrian access route to less than 4 ft. Placement of audible information devices shall be as shown on the plans or as directed by the Engineer.
4. Pedestrian traffic signal displays controlling closed crosswalks shall be covered or deactivated.
5. Type A flashing warning lights may be omitted on pedestrian channelizers that support signs and closed sidewalks during daytime only closures.
6. Construction signs shall not reduce the available width of a temporary pedestrian access route to less than 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY PEDESTRIAN ACCESS ROUTES
INDEX AND GENERAL NOTES

SEPTEMBER 2026

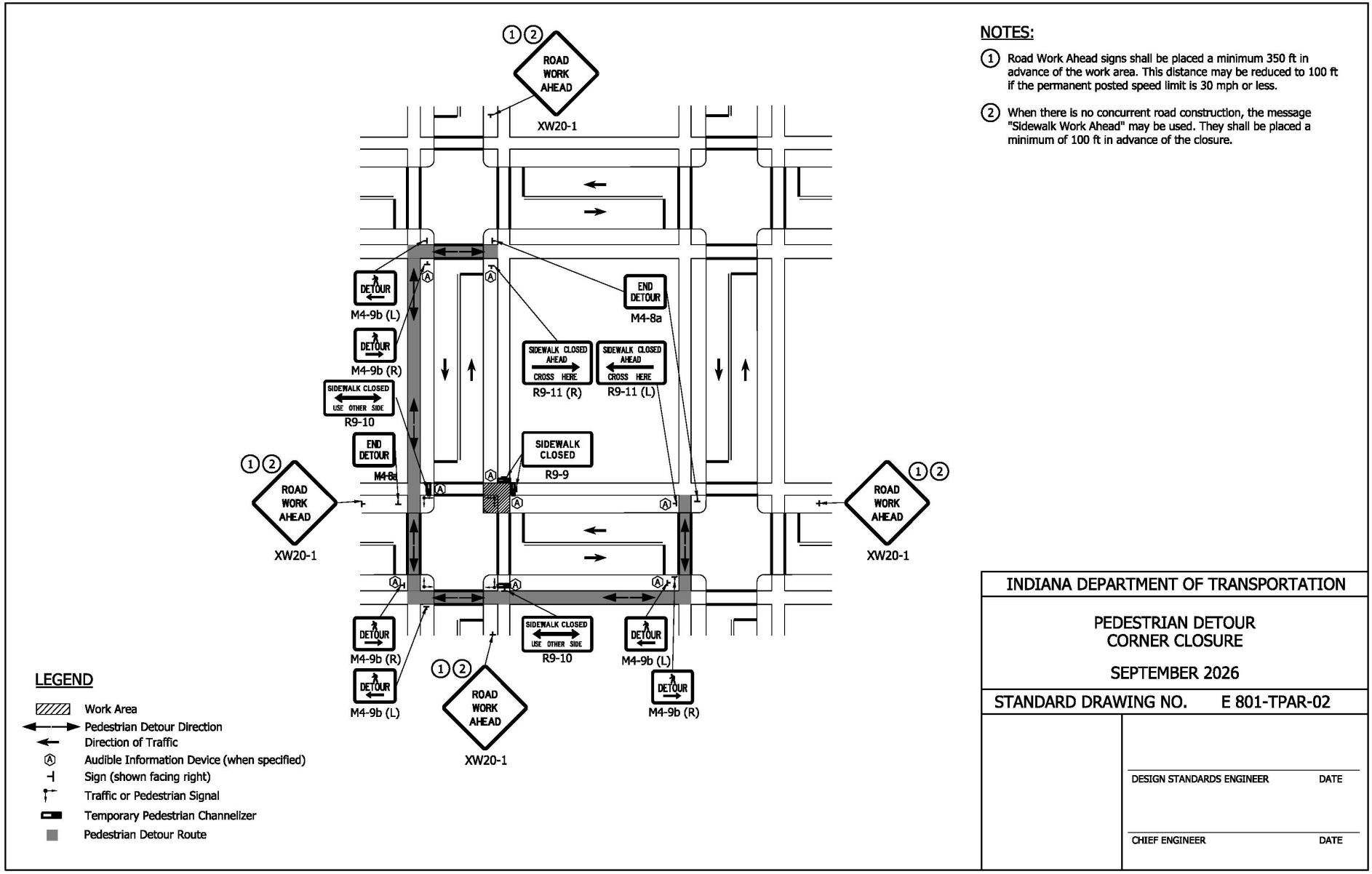
STANDARD DRAWING NO. E 801-TPAR-01

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

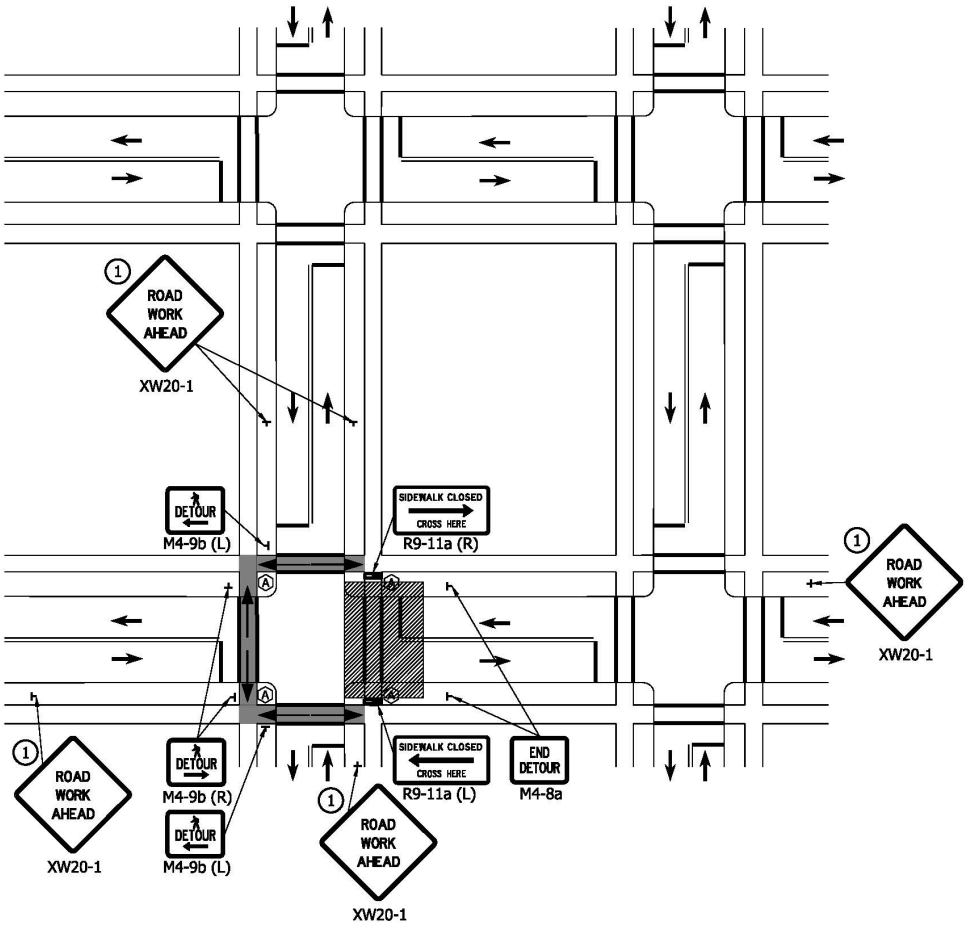
REVISION TO STANDARD DRAWINGS

E 801-TPAR-02 Pedestrian Detour Corner Closure (proposed draft)



REVISION TO STANDARD DRAWINGS

E 801-TPAR-03 Pedestrian Detour Crosswalk Closure (proposed draft)



NOTE:

1. Road Work Ahead signs shall be placed a minimum 350 ft in advance of the work area. This distance may be reduced to 100 ft if the permanent posted speed limit is 30 mph or less.

LEGEND

- Work Area
- Pedestrian Detour Direction
- Direction of Traffic
- Audible Information Device (when specified)
- Sign (shown facing right)
- Traffic or Pedestrian Signal
- Temporary Pedestrian Channelizer
- Pedestrian Detour Route

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
CROSSWALK CLOSURE

SEPTEMBER 2026

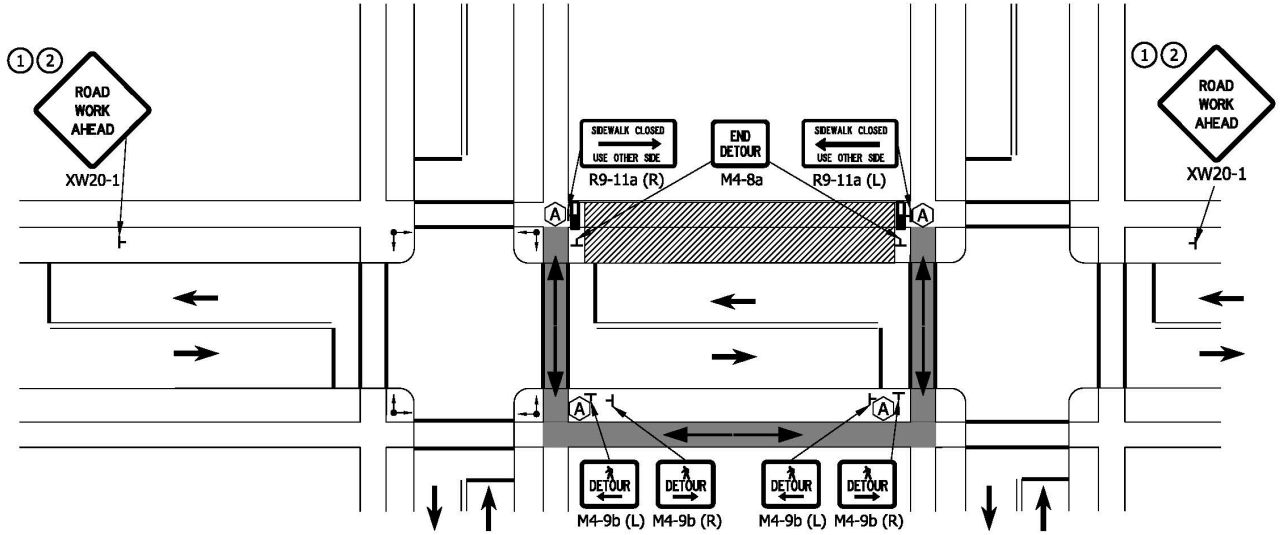
STANDARD DRAWING NO. E 801-TPAR-03

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TPAR-04 Pedestrian Detour Full Block Closure (proposed draft)



NOTES:

1. Road Work Ahead signs shall be placed a minimum 350 ft in advance of the work area. This distance may be reduced to 100 ft if the permanent posted speed limit is 30 mph or less.
2. When there is no concurrent road construction, the message "Sidewalk Work Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.
3. The Contractor shall coordinate any on-street parking restrictions with the local public agency.

LEGEND

- Work Area
- Pedestrian Detour Direction
- Direction of Traffic
- Audible Information Device (when specified)
- Sign (shown facing right)
- Traffic or Pedestrian Signal
- Temporary Pedestrian Channelizer
- Pedestrian Detour Route

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
FULL BLOCK CLOSURE

SEPTEMBER 2026

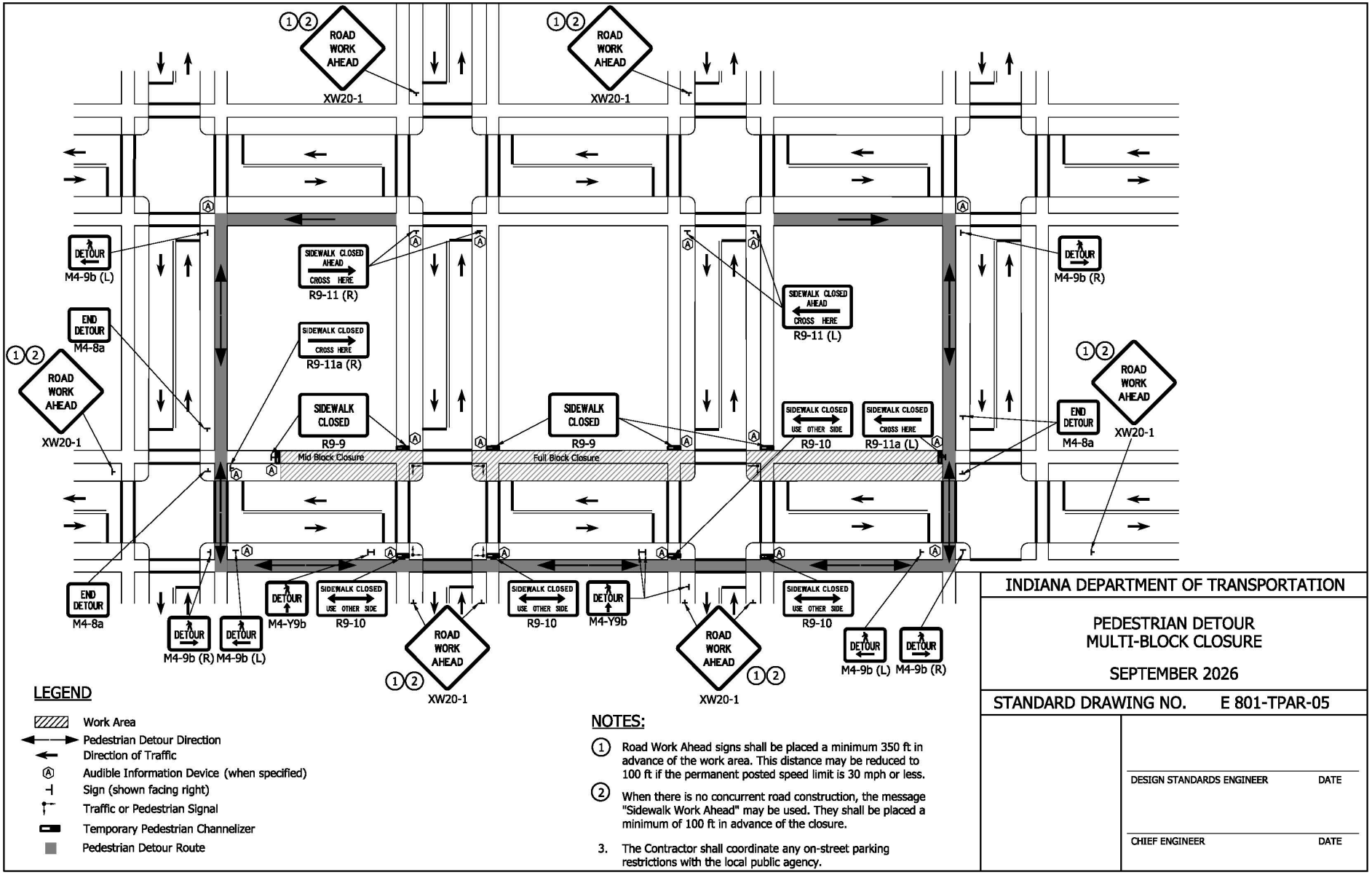
STANDARD DRAWING NO. E 801-TPAR-04

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

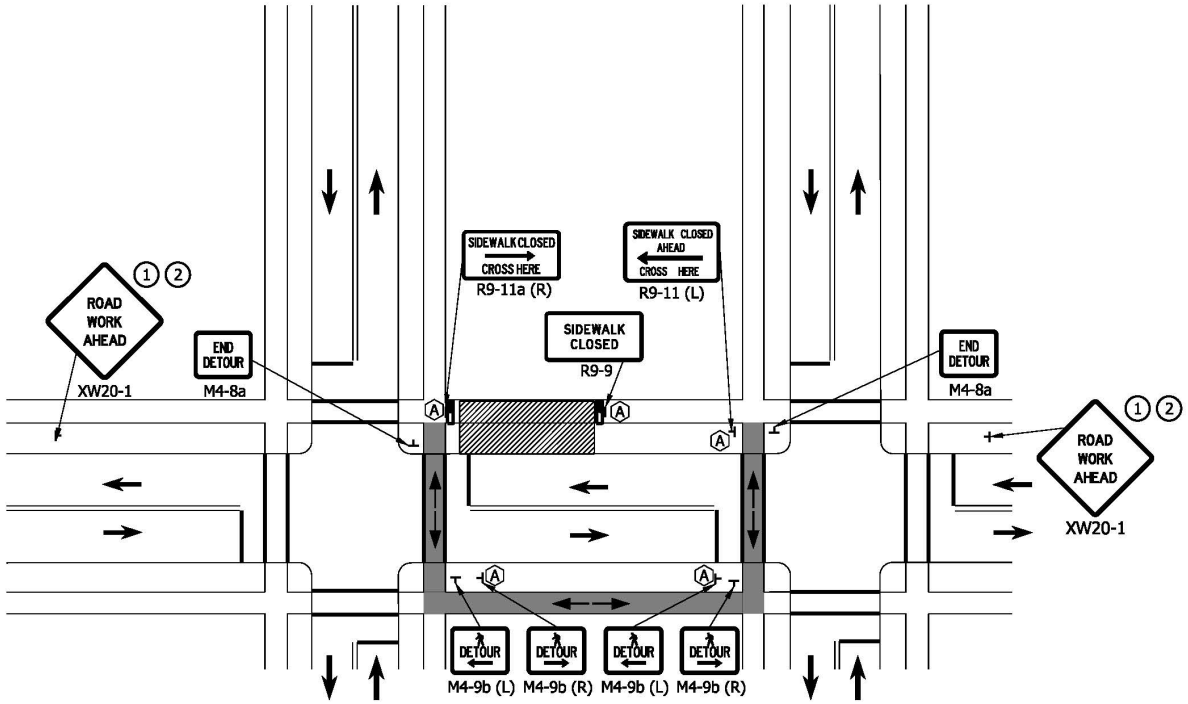
REVISION TO STANDARD DRAWINGS

E 801-TPAR-05 Pedestrian Detour Multi-Block Closure (proposed draft)



REVISION TO STANDARD DRAWINGS

E 801-TPAR-06 Pedestrian Detour Midblock Closure (proposed draft)



NOTES:

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2. When there is no concurrent road construction, the message "Sidewalk Work Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.
3. The Contractor shall coordinate any on-street parking restrictions with the local public agency.

LEGEND

- Work Area
- Pedestrian Detour Direction
- Direction of Traffic
- Audible Information Device (when specified)
- Sign (shown facing right)
- Traffic or Pedestrian Signal
- Temporary Pedestrian Channelizer
- Pedestrian Detour Route

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
MIDBLOCK CLOSURE

SEPTEMBER 2026

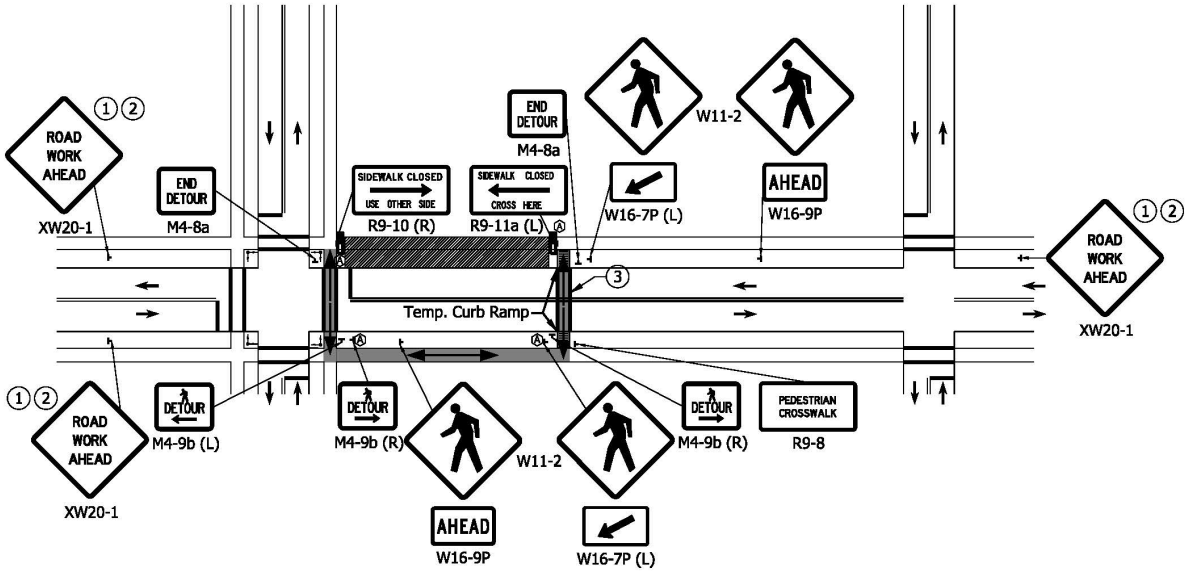
STANDARD DRAWING NO. E 801-TPAR-06

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TPAR-07 Pedestrian Detour Midblock Closure with Temporary Crossing (proposed draft)



NOTES:

1. Road Work Ahead and Crosswalk Ahead signs shall be placed a minimum 500 ft and 350 ft, respectively, in advance of the work area. This distance may be reduced to 200 ft and 100 ft, respectively, if the permanent posted speed limit is 30 mph or less.
2. When there is no concurrent road construction, the message "Sidewalk Work Ahead" may be used. They shall be placed a minimum of 100 ft in advance of the closure.
3. White temporary crosswalk lines shall be a minimum of 6 inches in width and written approval from the District Traffic Engineer is required prior to placing the crosswalk lines and W11-2 and W16-7P sign assemblies.
4. The Contractor shall coordinate any on-street parking restrictions with the local public agency.
5. A temporary crossing shall not be used if the AADT is > 12,000 or when there is an adjacent intersection with crosswalks within one block.

LEGEND

- Work Area
- Pedestrian Detour Direction
- Direction of Traffic
- Audible Information Device (when specified)
- Sign (shown facing right)
- Traffic or Pedestrian Signal
- Temporary Pedestrian Channelizer
- Pedestrian Detour Route
- Temp. Curb Ramp

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DETOUR
TEMPORARY MIDBLOCK CLOSURE
WITH TEMPORARY CROSSING

SEPTEMBER 2026

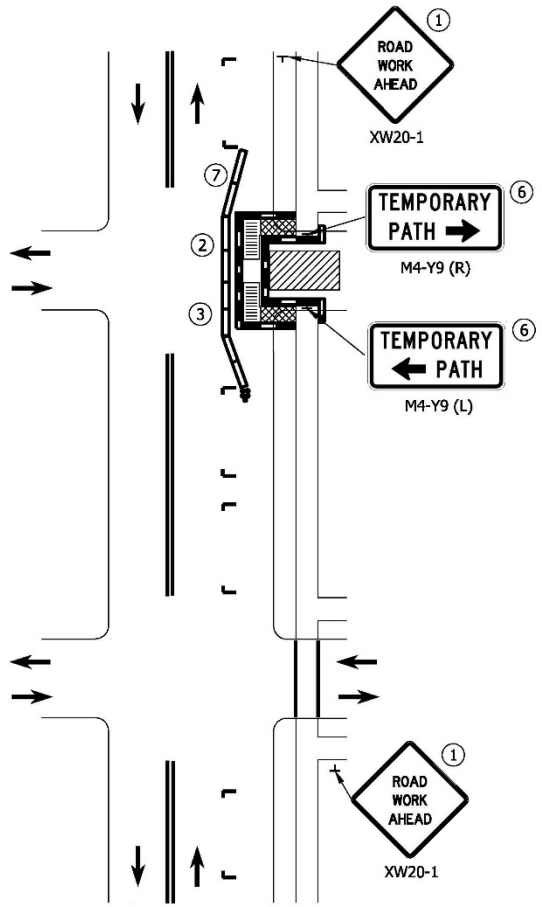
STANDARD DRAWING NO. E 801-TPAR-07

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TPAR-08 Pedestrian Diversion, Streetside at Intersection (proposed draft)



NOTES:

1. Road Work Ahead signs shall be placed a minimum 350 ft in advance of the work area. The distance may be reduced to 100 ft if the permanent posted speed limit is 30 mph or less.
2. See E 801-TCTC Series for temporary road closure signage.
3. For nighttime closures, Type A Flashing warning lights shall be used on barricades that support signs and close sidewalks.
4. Type 2 Temporary Traffic Barrier shall be used in addition to the temporary pedestrian channelizer, if the posted speed limit is 35 mph or greater.
5. Any pedestrian devices used to provide positive protection (traffic or hazard) for pedestrians or workers shall be Type 2 Temporary Traffic Barrier.
6. When specified, M4-Y9 signs shall be 24" x 12" with 3 inch C series font and a 6" x 4" arrow.
7. See Standard Drawing series 801-TCCB for Temporary Traffic Barrier flare rate.

LEGEND

- Work Area
- Direction of Traffic
- Temp Access Path
- Sign (shown facing right)
- Temporary Pedestrian Channelizer
- Temp. Curb Ramp
- Traffic Barrier (when specified)
- Crash Cushion (when specified)

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN DIVERSION,
STREETSIDE AT INTERSECTION

SEPTEMBER 2026

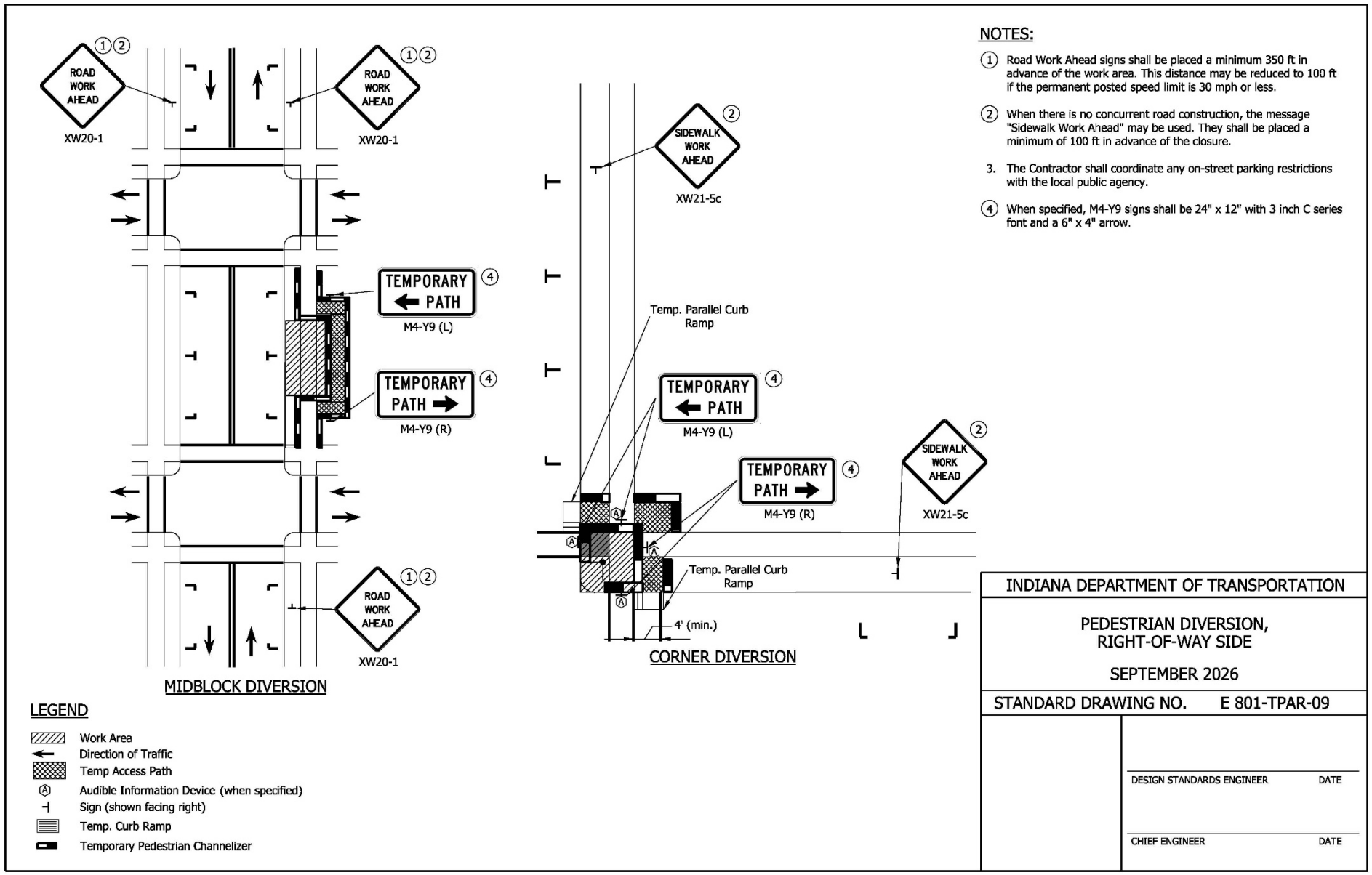
STANDARD DRAWING NO. E 801-TPAR-08

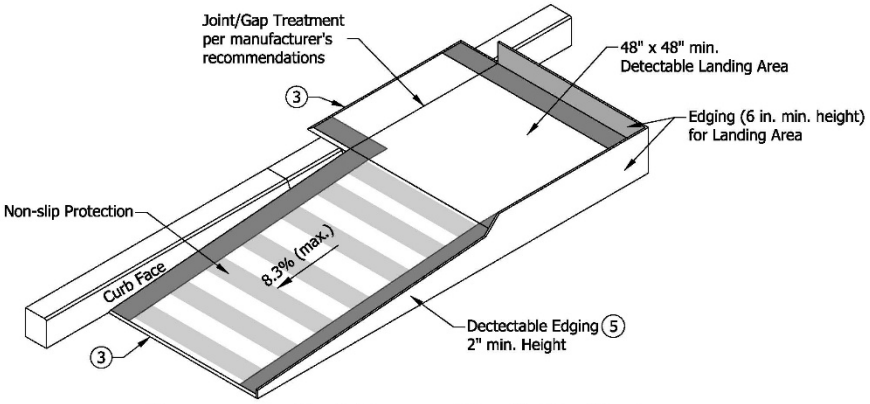
DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

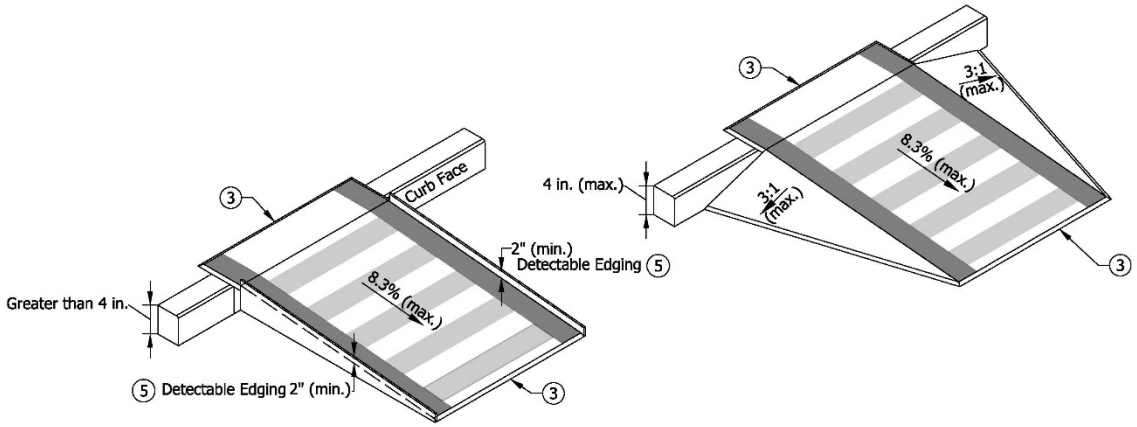
REVISION TO STANDARD DRAWINGS

E 801-TPAR-09 Pedestrian Diversion, Right-of-way Side (proposed draft)





Temporary Curb Ramp - Parallel to Curb



Temporary Curb Ramp - Perpendicular to Curb

NOTES:

1. Water flow in the gutter system shall be maintained.
2. Lateral joints or gaps between surfaces shall be less than 0.5 in. width.
3. Changes in level between surface heights shall not exceed 0.5 in. Lateral edges shall be vertical up to 0.25 in. high, and beveled at 2:1 between 0.25 in. and 0.5 in. in height
4. Handrail shall be provided along a landing area and ramp where the elevation difference between the sidewalk and the street is greater than 6.0 in.
5. A 2.0 in. detectable edge shall be provided along the entire length of the ramp where the elevation difference between the sidewalk and the street is greater than 4.0 in.
6. The rise of a single temporary curb ramp shall be no more than 30 in. If more than one temporary curb ramp is needed at a location due to the change in elevation, a minimum 5 ft landing area shall be used between curb ramps. The landing area shall have a slope of less than 2.0%.
7. The table below is for common curb heights, the curb ramp length for other curb heights shall be based on having a maximum slope of 12:1.

Curb Height (in.)	Minimum Temporary Curb Ramp Length (ft)
3	3
4	4
5	5
6	6

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY
CURB RAMPS

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-10

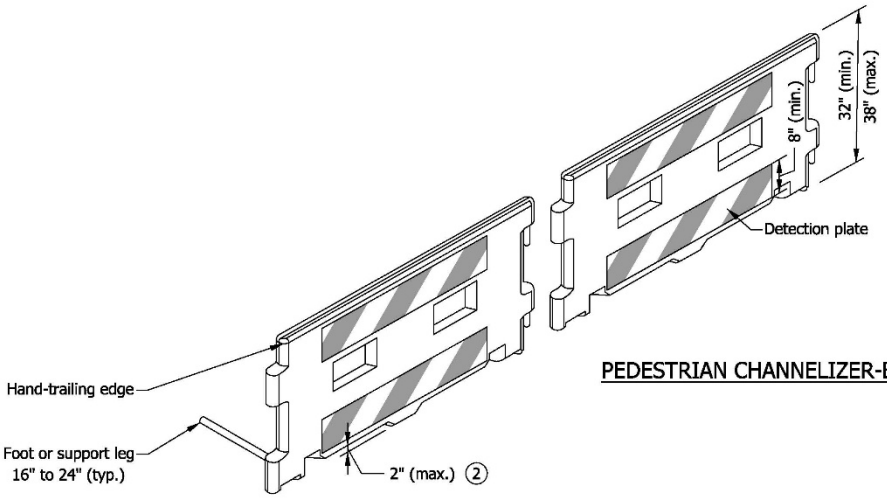
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

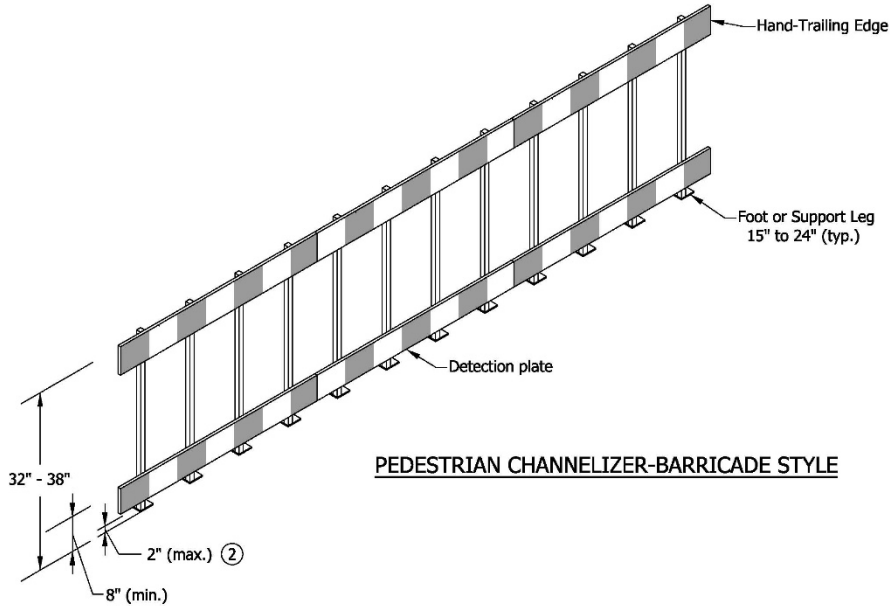
05/13/2024
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 801-TPAR-11 Temporary Pedestrian Channelizers



PEDESTRIAN CHANNELIZER-BARRIER STYLE



PEDESTRIAN CHANNELIZER-BARRICADE STYLE

NOTES:

1. Ballast shall be located behind or internal to the device. Any support on the front of the device shall not extend into the 48 in. minimum walkway clear space and shall have 0.25 in. max. height above the walkway surface.
2. Devices shall not block water drainage from the walkway. A gap height or opening from the walkway surface up to 2 in. max. height is allowed for drainage purposes.
3. Type III Barricades shall not be used as pedestrian channelizers.
4. The hand-trailing edge and detection plate shall have alternating orange and white reflective sheeting oriented vertically or at a 45° angle.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY PEDESTRIAN CHANNELIZERS

SEPTEMBER 2024

STANDARD DRAWING NO. E 801-TPAR-11

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

4/26/2024
DESIGN STANDARDS ENGINEER DATE

05/13/2024
CHIEF ENGINEER DATE

COMMENTS AND ACTION

E 801-TCLC series (-01 thru -12)
E 801-TCTC series (-01 thru -04)
E 801-TPAR series (-01 thru -11)

DISCUSSION:

This item was introduced and presented by Mr. Bruno, sitting in as proxy for Mr. Boruff, who stated that Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. The 801-TCLC, 801-TCTC, 801-TPAR, need various minor updates for the current edition of the MUTCD.

Mr. Bruno proposed to update this Standard Drawing series for the current edition of MUTCD. Further detailed explanations were provided by Mr. Bruno, following questions by Mr. Doug Nagel, and Mr. Kyle Nagel.

There were no further discussion and this item passed as submitted.

The effective dates will be discussed at the next Traffic Standards Subcommittee meeting.

Motion: Mr. Bruno
Second: Mr. Orton
Ayes: 10
Nays: 0
FHWA Approval: YES

Action:

X Passed as Submitted
___ Passed as Revised
___ Withdrawn

2026 Standard Specifications Sections:
801, pp 879 - 907

Recurring Special Provisions or Plan Details:
NONE

Standard Drawing affected:
801-TCLC, 801-TCTC, and 801-TPAR

Design Manual Chapter:
503

GIFE Section:
NONE

___ 2028 Standard Specifications
___ Revise Pay Items List
___ Notification to Designers if change is not addressed by RSP

___ Create RSP (No.___)
Effective:

___ Revise RSP (No.___)
Effective:

X Standard Drawings 801-TCLC, 801-TCTC, and 801-TPAR
Effective: September 1, 2026

___ Create RPD (No. ___)
Effective:

___ GIFE Update
___ Frequency Manual Update
___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. The 802-SNDH, 802-SNPL, and 802-SNGS Standard Drawing series need various minor updates for the current edition of the MUTCD.

PROPOSED SOLUTION: Update these Standard Drawing series for the current edition of the MUTCD.

APPLICABLE STANDARD SPECIFICATIONS: N/A

APPLICABLE STANDARD DRAWING: 802-SNDH, 802-SNPL, and 802-SNGS

APPLICABLE DESIGN MANUAL CHAPTER: 502

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Reviewed by IMUTCD Steering Committee

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Required for contracts with any 802 pay items.

IMPACT ANALYSIS (attach report): Yes

Submitted By: Joe Bruno on behalf of Dave Boruff

Title: Sr. Traffic Engineer

Division: Traffic Engineering Division

E-mail: jbruno@indot.in.gov

Date: 3/20/2026

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 Qualified Products List (QPL)? No
Will this proposal improve:

- Construction costs? No
- Construction time? No
- Customer satisfaction? Yes
- Congestion/travel time? Yes
- Ride quality? No

Will this proposal reduce operational costs or maintenance effort? No

Will this item improve safety:

- For motorists? Yes
- For construction workers? No

Will this proposal improve quality for:

- Construction procedures/processes? Yes
- Asset preservation? No
- Design process? Yes

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? Yes

Is this proposal needed for compliance with:

- Federal or State regulations? Yes
- AASHTO or other design code? No

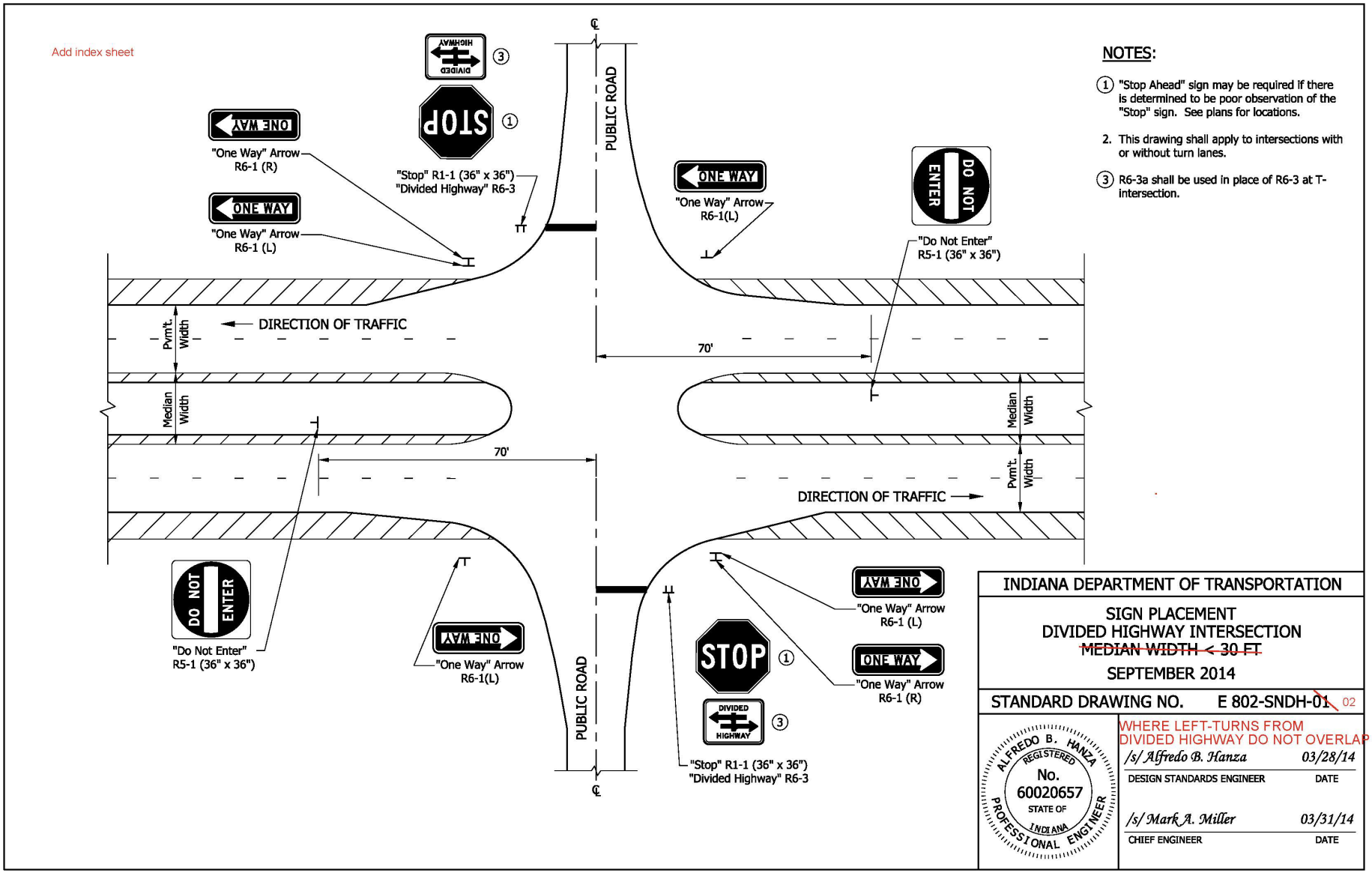
Is this item editorial? No

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

REVISION TO STANDARD DRAWINGS

E 802-SNDH-01 Sign Placement Divided Highway Intersection (shown markups)

Add index sheet



NOTES:

1. "Stop Ahead" sign may be required if there is determined to be poor observation of the "Stop" sign. See plans for locations.
2. This drawing shall apply to intersections with or without turn lanes.
3. R6-3a shall be used in place of R6-3 at T-intersection.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN PLACEMENT
DIVIDED HIGHWAY INTERSECTION
~~MEDIAN WIDTH < 30 FT~~
SEPTEMBER 2014

STANDARD DRAWING NO. E 802-SNDH-01 02

WHERE LEFT-TURNS FROM DIVIDED HIGHWAY DO NOT OVERLAP

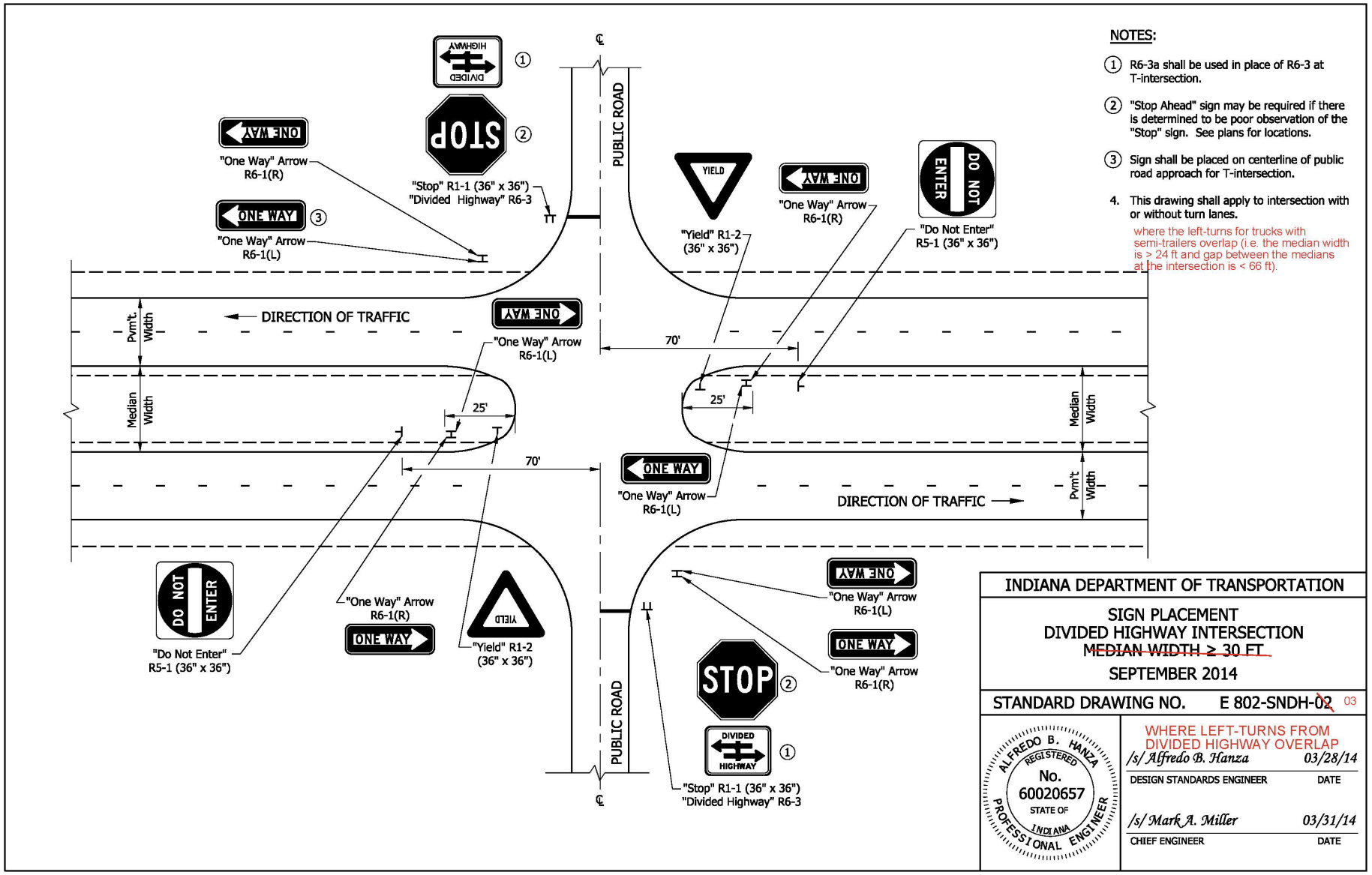
ALFREDO B. HANZA REGISTERED No. 60020657 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Alfredo B. Hanza 03/28/14
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 03/31/14
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNDH-02 Sign Placement Divided Highway Intersection (shown markups)



REVISION TO STANDARD DRAWINGS

E 802-SNDH-01 Sign Placement Divided Highway Intersection Index Sheet (proposed draft)

INDEX	
SHEET NO.	SUBJECT
1	Sign Placement Divided Highway Intersection Index Sheet
2	Sign Placement Divided Highway Intersection Where Left-Turns Do Not Overlap
3	Sign Placement Divided Highway Intersection Where Left-Turns Overlap

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN PLACEMENT DIVIDED HIGHWAY
INTERSECTION INDEX SHEET

SEPTEMBER 2026

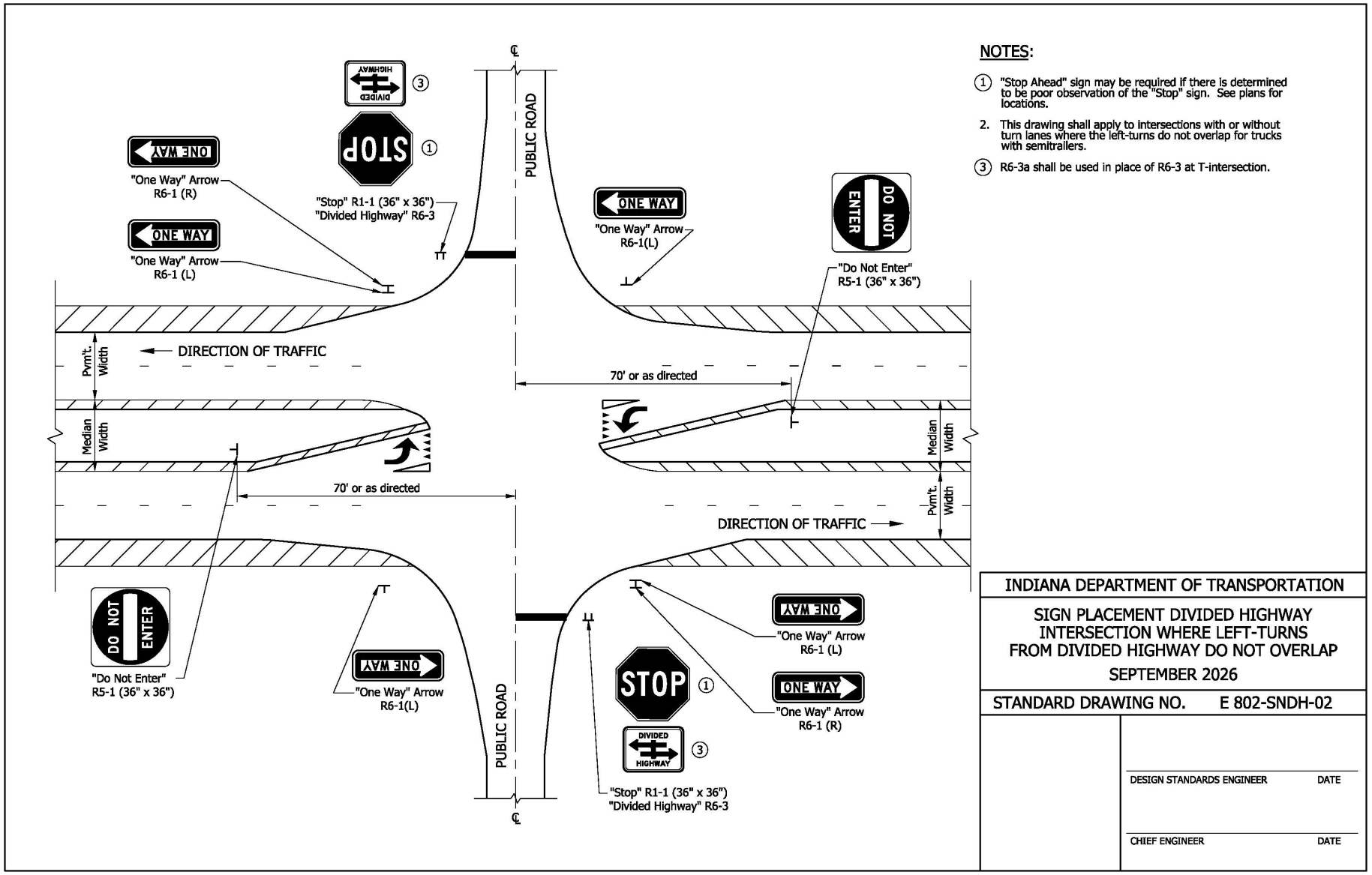
STANDARD DRAWING NO. E 802-SNDH-01

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

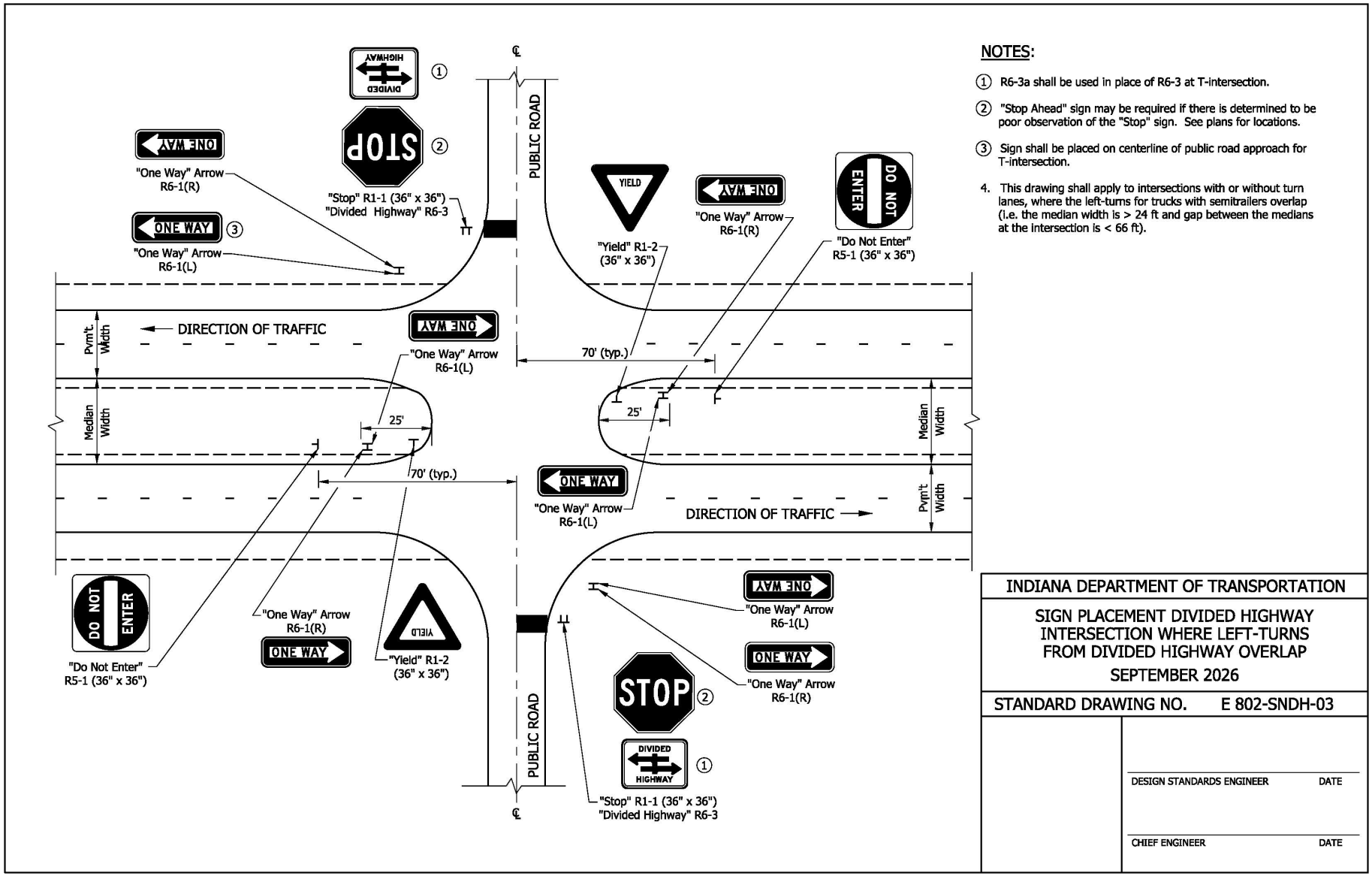
REVISION TO STANDARD DRAWINGS

E 802-SNDH-02 Sign Placement Divided Highway Intersection Where Left-Turns Do Not Overlap (proposed draft)



REVISION TO STANDARD DRAWINGS

E 802-SNDH-03 Sign Placement Divided Highway Intersection Where Left-Turns Overlap (proposed draft)



NOTES:

1. R6-3a shall be used in place of R6-3 at T-intersection.
2. "Stop Ahead" sign may be required if there is determined to be poor observation of the "Stop" sign. See plans for locations.
3. Sign shall be placed on centerline of public road approach for T-intersection.
4. This drawing shall apply to intersections with or without turn lanes, where the left-turns for trucks with semitrailers overlap (i.e. the median width is > 24 ft and gap between the medians at the intersection is < 66 ft).

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN PLACEMENT DIVIDED HIGHWAY INTERSECTION WHERE LEFT-TURNS FROM DIVIDED HIGHWAY OVERLAP

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNDH-03

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-01 Signs Drawing Index and General Notes (shown markups)

INDEX	
SHEET NO.	SUBJECT
1	Signs Drawing Index and General Notes
2	Route Marker Details, Sheilds and Auxillary Signs
3	Route Marker Details, Arrow and Cardinal Direction Signs
4	Sign Reflectorization Schedule
5	Sign Reflectorization Schedule
6	Miscellaneous Sign Details
7	Steel Sign Posts, Selection Table
8	Steel Sign Posts, Bracing for Signs Greater Than 90"
9	Steel Sign Posts, Anchor Base Details
10	Sign Identification Marking

GENERAL NOTES:

Characters
available on guide signs ~~Numerals~~ characters sometimes cannot be accommodated within the space available. For this situation, the standard series D numeral may be reduced to series C. As a second choice, use the next smaller height commonly available.

2. For independent use of sheet signs, a nylon and metal washer shall be placed between each bolt head and the face of the metal sign. See Sign Bolt Detail on Standard Drawing E 802-SNGS-06.

3. Fabrication details for the signs shown shall be found in the Standard Highway Signs and Markings Book. Shop drawings will be supplied on all other signs not found in the publication.

4. See Standard Drawing E 802-SNPL-02 for mounting height and lateral locations of signs.

5. Splicing of flanged channel post will not be permitted.

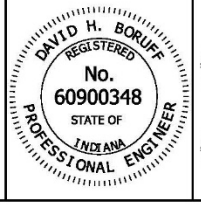
6. Wherever white is specified as a color, it is understood to include silver-colored reflecting coatings or elements the reflect white light.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNS
DRAWING INDEX AND GENERAL NOTES

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-01



/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-02 Route Marker Details, Sheilds and Auxiliary Signs (shown markups)

Add P to all M2 and M4 series to reflect status as a plaque

WHITE BACKGROUND WITH BLACK BORDER AND NUMERALS

M1-4(I)

FOR INDEPENDENT USE ONLY

WHITE BACKGROUND WITH BLACK NUMERALS

M1-4(G)

(G) INDICATES SHIELD TO BE USED ON ALL GUIDE SIGNS AND DOES NOT REQUIRE BLACK BORDER

FOR GUIDE SIGN USE

WHITE BACKGROUND WITH BLACK LETTERS, NUMERALS AND BORDER

M1-5

STATE ROUTE MARKER

WHITE LETTERS, NUMERALS, AND BORDER

M1-1

INTERSTATE SHIELD

M1-4(I), M1-4(G), M1-5, M1-1					
12" NUMERALS		18" NUMERALS		24" NUMERALS	
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
24" x 24"	30" x 24"	36" x 36"	45" x 36"	48" x 48"	60" x 48"

M2-1(S)
M2-1(I)

M4-5(I)
M4-5(S)

M4-6(S)
M4-6(I)

M4-4(S)

(I) INDICATES WHITE LEGEND ON BLUE BACKGROUND (INTERSTATE)
(S) INDICATES BLACK LEGEND ON WHITE BACKGROUND (STATE)

STATE	M2-1(S)		M4-4(S)		M4-5(S)		M4-6(S)	
INTERSTATE	M2-1(I)				M4-5(I)		M4-6(I)	
SHIELD SIZES	24" x 24" 30" x 24"	36" x 36" 45" x 36"	24" x 24" 30" x 24"	36" x 36" 45" x 36"	24" x 24" 30" x 24"	36" x 36" 45" x 36"	24" x 24" 30" x 24"	36" x 36" 45" x 36"
CORRESPONDING SIGN SIZE	21" x 15"		24" x 12"	30" x 15"	24" x 12"	30" x 15"	24" x 12"	30" x 15"

NOTES:

1. All series M(S) "JCT", "TO", "TRUCK", and "END" shall be white background with black legend and border.
2. All series M(I) "JCT", "TO", "TRUCK", and "END" shall be blue background with white legend and border.
3. Center align numbers about vertical centerline of shield.

INDIANA DEPARTMENT OF TRANSPORTATION

ROUTE MARKER DETAILS
SHIELDS AND AUXILLARY SIGNS

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-02

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

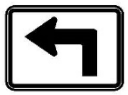
/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

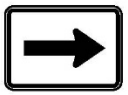
E 802-SNGS-03 Route Marker Details, Arrow and Cardinal Direction Signs (shown markups)

Add P to all M3, M5, and M6 series to reflect status as plaque


M5-1 (R or L) (I or S)


M5-2 (R or L) (I or S)

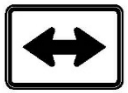

M5-3 (R or L) (I or S)

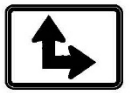

M6-1 (R or L) (I or S)

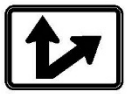

M6-5 (R or L) (I or S)


M6-2 (R or L) (I or S)


M6-3 (I or S)


M6-4 (I or S)


M6-6 (R or L) (I or S)


M6-7 (R or L) (I or S)

NOTES:

1. All series M(S) cardinal directions and arrows shall be white background with black legend and border.
2. All series M(I) cardinal directions and arrows shall be blue background with white legend and border.

(3) Make 1st letter 10% taller.

STATE	M5-1(S) M6-1(S) M6-3(S) M6-5(S) M6-7(S) M5-2(S) M5-3(S) M6-2(S) M6-4(S) M6-6(S)	
INTERSTATE	M5-1(I) M6-1(I) M6-3(I) M6-5(I) M6-7(I) M5-2(I) M5-3(I) M6-2(I) M6-4(I) M6-6(I)	
SHIELD SIZES	24" x 24" 30" x 24"	36" x 36" 45" x 36"
CORRESPONDING SIGN SIZE	21" x 15"	21" x 15" 30"x 21"

M3-1 (3) (S or I)

M3-2 (3) (S or I)

M3-3 (3) (S or I)

M3-4 (3) (S or I)

STATE	M3-1(S) M3-2(S) M3-3(S) M3-4(S)			
INTERSTATE	M3-1(I) M3-2(I) M3-3(I) M3-4(I)			
SHIELD SIZES	24" x 24"	30" x 24"	36" x 36"	45" x 36"
CORRESPONDING SIGN SIZE	24" x 12"	24" x 12"	36" x 18"	36" x 18"

INDIANA DEPARTMENT OF TRANSPORTATION

ROUTE MARKER DETAILS
ARROW AND CARDINAL DIRECTION SIGNS

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-03

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-04 Sign Reflectorization Schedule (shown markups)

SIGN	REMARKS	BACKGROUND	COPY & BORDER
IGD, GD	Directional	S-3-H	B
IGDO, GD	Directional	S-3-H	B
IGI	Information	S-3-H	B
IGS	Services	~~S-4-H~~	B
IGS	Services	S-6-H	S-2-H
IGDO, GDO Special - Panel	Warning Panel	S-10-H	A
R1-1	Stop	S-5-H	S-2-H
R1-2	Yield	S-2-H	S-5-H
~~R1-3, R1-4~~ R1-3P	~~4-Way,~~ All-Way	S-5-H	S-2-H
R2-3P	Night Speed	0-1-H	S-2-H
R3-1, R3-2, R3-4	No Right, Left, or U Turns	S-2-H	S-5-H, 0-1-H
R5-1	Do Not Enter	S-5-H	S-2-H
R5-1a	Wrong Way	S-5-H	S-2-H
R5-2, R5-6	No Trucks, Bicycles	S-2-H	S-5-H, 0-1-H
R7-1, R7-4, R7-107, R7-201P	No Parking (Urban)	S-2-H	S-5-H
R7-2a, R7-107a	No Parking (Urban)	S-2-H	S-5-H, 0-1-H
R7-5, R7-5a, R7-108	Restricted Parking	S-2-H	S-7-H
R7-8	Reserved Parking	S-2-H	S-7-H, S-6-H
R8-1, R8-1a, R8-2, R8-3, R8-3b, R8-3c, R8-8	No Parking (Rural)	S-2-H	S-5-H
R8-3a	No Parking (Rural)	S-2-H	S-5-H, 0-1-H
R9-~~3a~~, R9-~~4a~~	Pedestrian Signs	S-2-H	S-5-H, 0-1-H
All other regulatory signs		S-2-H	0-1-H
W3-1a, W3-2a	Stop & Yield Ahead	S-10-H	S-2-H, S-5-H, O-1-H
W3-3	Signal Ahead	S-10-H	S-5-H S-7-H, O-1-H
All School Warning Signs		S-11-H	O-1-H
All other warning signs	Except Construction Signs, School Warning Signs	S-10-H	O-1-H
M1-1	Interstate Shields	S-8-H	S-2-H
M1-2, M1-3	Business Shields	S-7-H	S-2-H
M1-4	U.S. Shields	S-2-H	O-1-H
M1-5	State Shields	S-2-H	O-1-H
M1-6	County Shields	S-4-H	S-1-H
M1-7	National Forest	△	S-2-H

Add R1-5, R 1-6, R1-9, R3-18, R3-27, R9-13 thru R9-16, and R10-3 series to table

BACKGROUND, COPY & BORDER KEY

CODE	DESCRIPTION
0-1-H	Paint (Black) For Use With Prismatic Reflective Sheeting
S-1-H	Prismatic Reflective Sheeting (Yellow)
S-2-H	Prismatic Reflective Sheeting (Silver)
S-3-H	Prismatic Reflective Sheeting (Green)
S-4-H	Prismatic Reflective Sheeting (Blue)
S-5-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red)
S-6-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Blue)
S-7-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Green)
S-8-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red and Blue)
S-9-H	Prismatic Reflective Sheeting (Fluorescent Orange)
S-10-H	Prismatic Reflective Sheeting (Fluorescent Yellow)
S-11-H	Prismatic Reflective Sheeting (Fluorescent Yellow-Green)
A	Cut - Out Letters Which Are Painted Black
B	Cut - Out Letters and Border - White Prismatic Reflective Sheeting
△	Brown Background with Prismatic Reflective Sheeting

SIGN IDENTIFICATION CODES

IGDO	Interstate Guide Directional Overhead
IGD	Interstate Guide Directional
IGS	Interstate Guide Service and Rest Area
IGI	Interstate Guide Information
GDO	Guide Directional Overhead
GD	Guide Directional
R	Regulatory Sign
W	Warning, Construction and Maint. Signs
M	Route Markers and Aux. Markers for Assemblies
D	Destination Sign
I	Information

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN REFLECTORIZATION SCHEDULE

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-04

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-05 Sign Reflectorization Schedule (shown markups)

SIGN	REMARKS	BACKGROUND	COPY & BORDER
M2-1 (I), M3-1 (I), M3-2 (I), M3-3 (I), M3-4 (I)	Auxiliary Markers	S-6-H	S-2-H
M4-5 (I), M4-7 (I), M5-1 (I), M5-2 (I)	Auxiliary Markers	S-6-H	S-2-H
M6-1 Through M6-7	Auxiliary Markers	S-6-H	S-2-H
M4-5, M4-6, M4-6a	Auxiliary Markers	S-7-H	S-2-H
M4-8, M4-9	Detour Marker	S-9-H	O-1-H
All Other Marker Auxiliaries		S-2-H	O-1-H
D4-1	Parking	S-2-H	S-7-H
D5-5, D5-5a, D9-2, D9-6	Rest Area & Service	S-6-H	S-2-H
D7-2	Recreation Area	△	S-2-H
All Other Destination Signs		S-3-H	S-2-H
I-17, I-18, I-19		S-6-H	S-2-H
I-20, I-21		S-2-H	O-1-H
All Other I-Signs		S-7-H	S-2-H
All Construction Signs		S-9-H	O-1-H
All Maintenance Signs		S-9-H	O-1-H

Add P to M2, M3, M4, M5, M6 series to reflect status as plaque

Add D9 and D12 series signs

BACKGROUND, COPY AND BORDER KEY

CODE	DESCRIPTION
O-1-H	Paint (Black) For Use With Prismatic Reflective Sheeting
S-1-H	Prismatic Reflective Sheeting (Yellow)
S-2-H	Prismatic Reflective Sheeting (Silver)
S-3-H	Prismatic Reflective Sheeting (Green)
S-4-H	Prismatic Reflective Sheeting (Blue)
S-5-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red)
S-6-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Blue)
S-7-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Green)
S-8-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red and Blue)
S-9-H	Prismatic Reflective Sheeting (Fluorescent Orange)
A	Cut - Out Letters Which Are Painted Black
B	Cut - Out Letters And Border - White Prismatic Reflective Sheeting
△	Brown Background With Prismatic Reflective Sheeting

SIGN IDENTIFICATION CODES

IGDO	Interstate Guide Directional Overhead
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IGS	Interstate Guide Service and Rest Area
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GDO	Guide Directional Overhead
GD	Guide Directional
R	Regulatory Sign
W	Warning, Construction and Maint. Signs
M	Route Markers and Aux. Markers for Assemblies
D	Destination Sign
I	Information

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN REFLECTORIZATION SCHEDULE

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-05

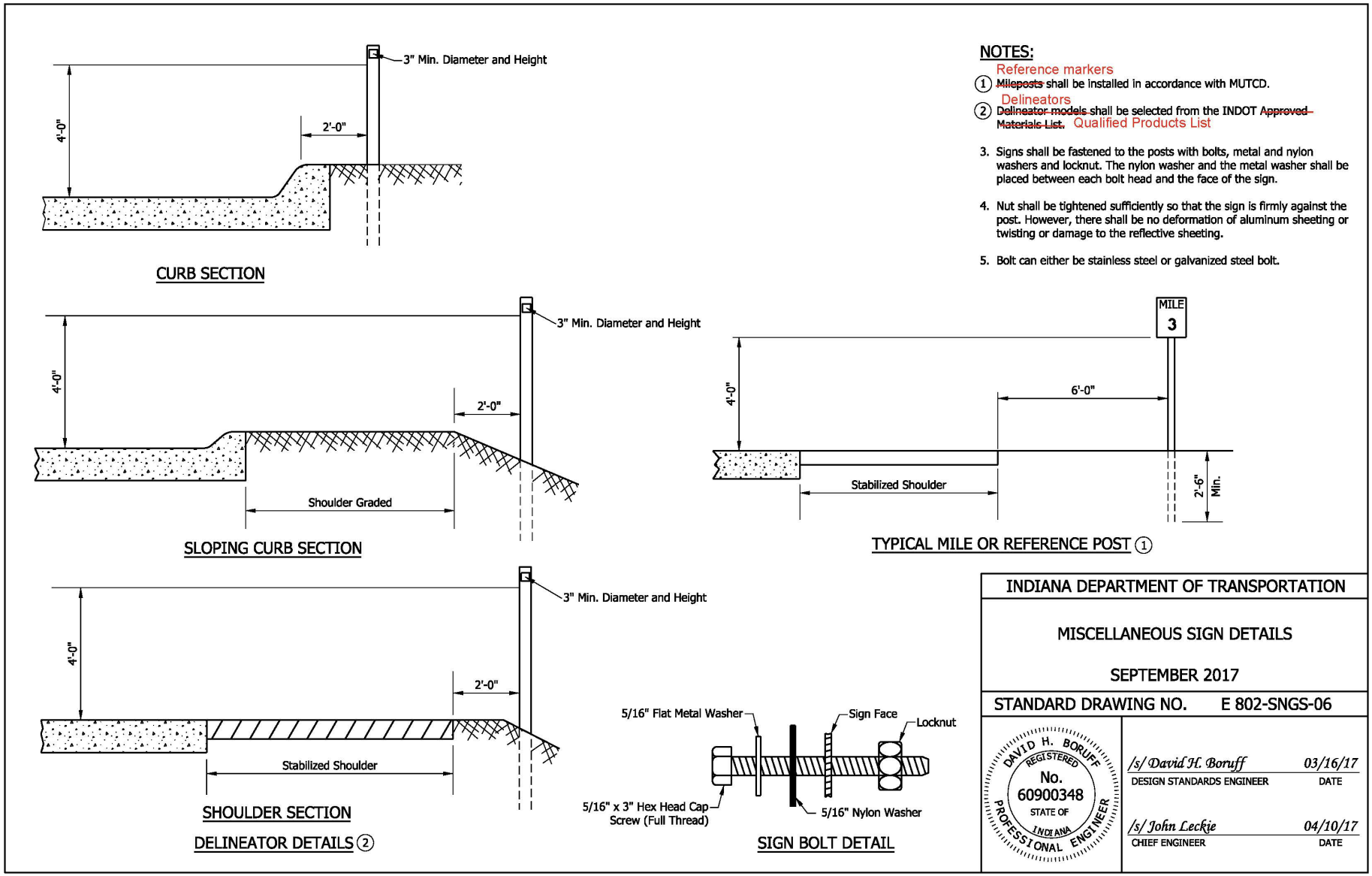
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-06 Miscellaneous Sign Details (shown markups)



REVISION TO STANDARD DRAWINGS

E 802-SNGS-07 Steel Sign Posts, Selection Table (shown markups)

WIDTH X HEIGHT ("W X H")	MOUNTING HEIGHT							
	5 FT		6 FT		7 FT		8 FT	
	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST
12 x 12, 12 x 6, 12 x 9 12 x 12, 12 x 18, 12 x 30	1-A	1-Type 1	1-A	1-Type 1	1-A	1-Type 1	1-A	1-Type 1
12 x 36	1-A		1-A		1-A		1-A	
18 x 6, 18 x 12, 18 x 18	1-A		1-A		1-A		1-A	
18 x 24	1-A		1-A		1-A		1-A	
18 x 30	1-A		1-A		1-A		1-A	
18 x 48	1-A		1-A		1-A		1-A	
24 x 12, 24 x 18, 24 x 24	1-A		1-A		1-A		1-A	
24 x 30	1-A		1-A		1-A		1-A	
24 x 36	1-A		1-A		1-A		1-A	
30 x 18	1-A		1-A		1-A		1-A	
30 x 24	1-A		1-A		1-A		1-A	
30 x 30	1-A		1-A		1-A		1-A	
30 x 36	1-A		1-A		1-A		1-A	
30 x 42	1-B		1-B		1-B		1-B	
30 x 48	1-B		1-B		1-B		1-B	
36 x 12	2-A		2-A		2-A		2-A	
36 x 18	2-A		2-A		2-A		2-A	
36 x 24	2-A		2-A		2-A		2-A	
36 x 36	2-A		2-A		2-A		2-A	
36 x 48	2-A		2-A		2-A		2-A	
42 x 18	2-A		2-A		2-A		2-B	
42 x 24	2-A		2-A		2-A		2-A	
42 x 30	2-A		2-A		2-A		2-A	
42 x 36	2-A		2-A		2-A		2-A	
48 x 16	2-A		2-A		2-A		2-A	
48 x 18	2-A		2-A		2-A		2-A	
48 x 24	2-A		2-A		2-A		2-A	
48 x 30	2-A		2-A		2-A		2-A	
48 x 36	2-A	2-Type 2	2-A	2-Type 2	2-A	2-Type 2	2-A	2-Type 2
48 x 48	2-A		2-B		2-B		2-B	
48 x 60	2-B		2-B		2-B		2-B	
60 x 24	2-A		2-A		2-A		2-A	
60 x 30	2-A		2-A		2-A		2-A	
60 x 36	2-A		2-A		2-B		2-B	
60 x 48	2-B		2-B		2-B		2-B	
72 x 24	2-A		2-A		2-A		2-A	
72 x 36	2-B		2-B		2-B		2-B	
90 x 36 120 x 36	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3

NOTES:

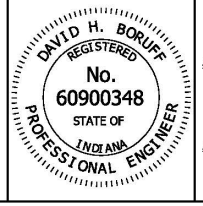
1. See Standard Drawing E 802-SNGS-08 and -09 for square steel sign post installation details.
2. The Type 1 post shall be 2 1/4 in. x 2 1/4 in. x 12 ga. wall thickness.
3. The Type 2 post shall be 2 in. x 2 in. x 12 ga. wall thickness.
4. The Type 3 post shall be 2 1/2 in. x 2 1/2 in. x 12 ga. wall thickness.
5. Flanged channel posts are as specified and as shown on the plans.

INDIANA DEPARTMENT OF TRANSPORTATION

STEEL SIGN
POST SELECTION TABLE

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-07

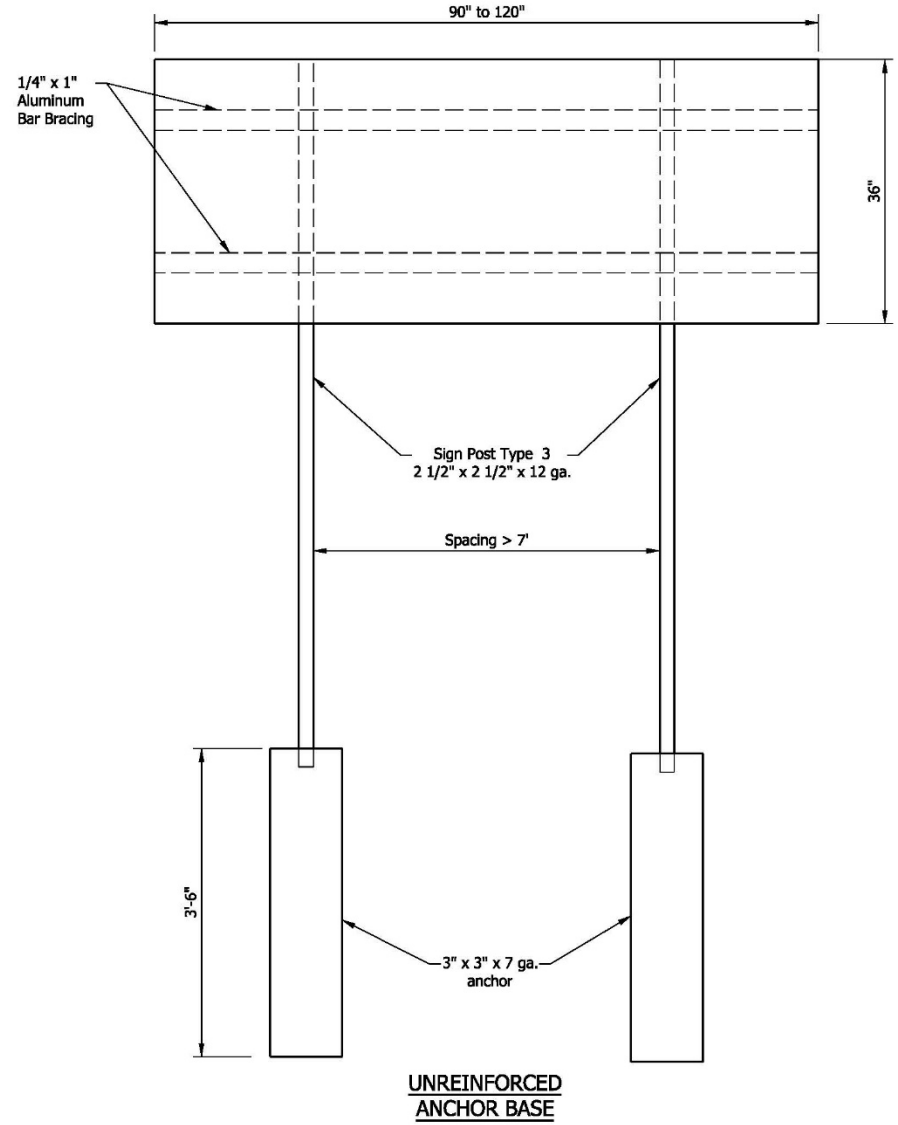


/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-08 Steel Sign Posts, Bracing for Signs Greater Than 90" (shown markups)



UNREINFORCED
ANCHOR BASE

NOTES:

1. Maximum sign width 120", maximum sign area 30 sq. ft.

INDIANA DEPARTMENT OF TRANSPORTATION

STEEL SIGN POSTS
BRACING FOR SIGNS GREATER THAN 90"

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-08

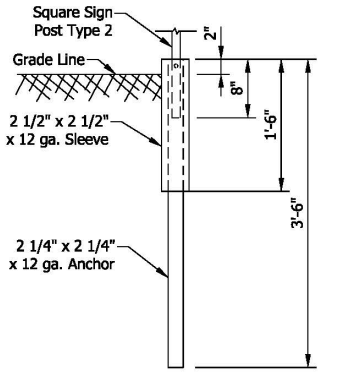
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

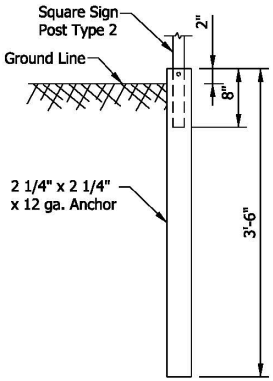
/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

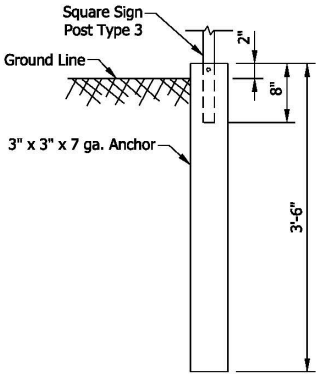
E 802-SNGS-09 Steel Sign Posts, Anchor Base Details (shown markups)



REINFORCED ANCHOR BASE



UNREINFORCED ANCHOR BASE

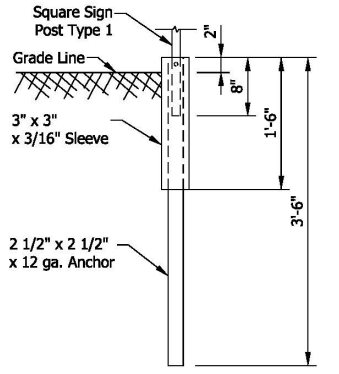


UNREINFORCED ANCHOR BASE

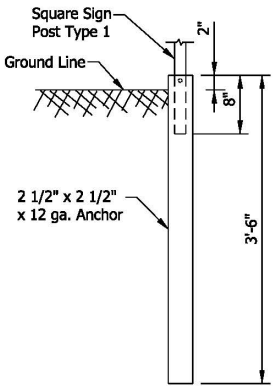
NOTES:

(1) See Standard Drawing E 802-SNGS-07 for sign size and E 802-SNPL-02 for horizontal and vertical sheet sign clearance.

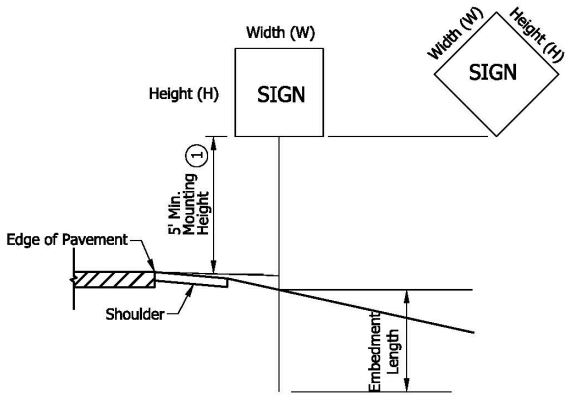
POST	TYPE	WALL THICKNESS	NO. OF POSTS PERMITTED IN 7 ft PATH	EMBEDMENT LENGTH
U-CHANNEL	A, B		1 OR 2	3'-6"
SQUARE	1	12 ga.	1	Anchor Base
	2	12 ga.	1 OR 2	
	3	12 ga.	1	



REINFORCED ANCHOR BASE



UNREINFORCED ANCHOR BASE



INDIANA DEPARTMENT OF TRANSPORTATION

STEEL SIGN POSTS
ANCHOR BASE DETAILS

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-09

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

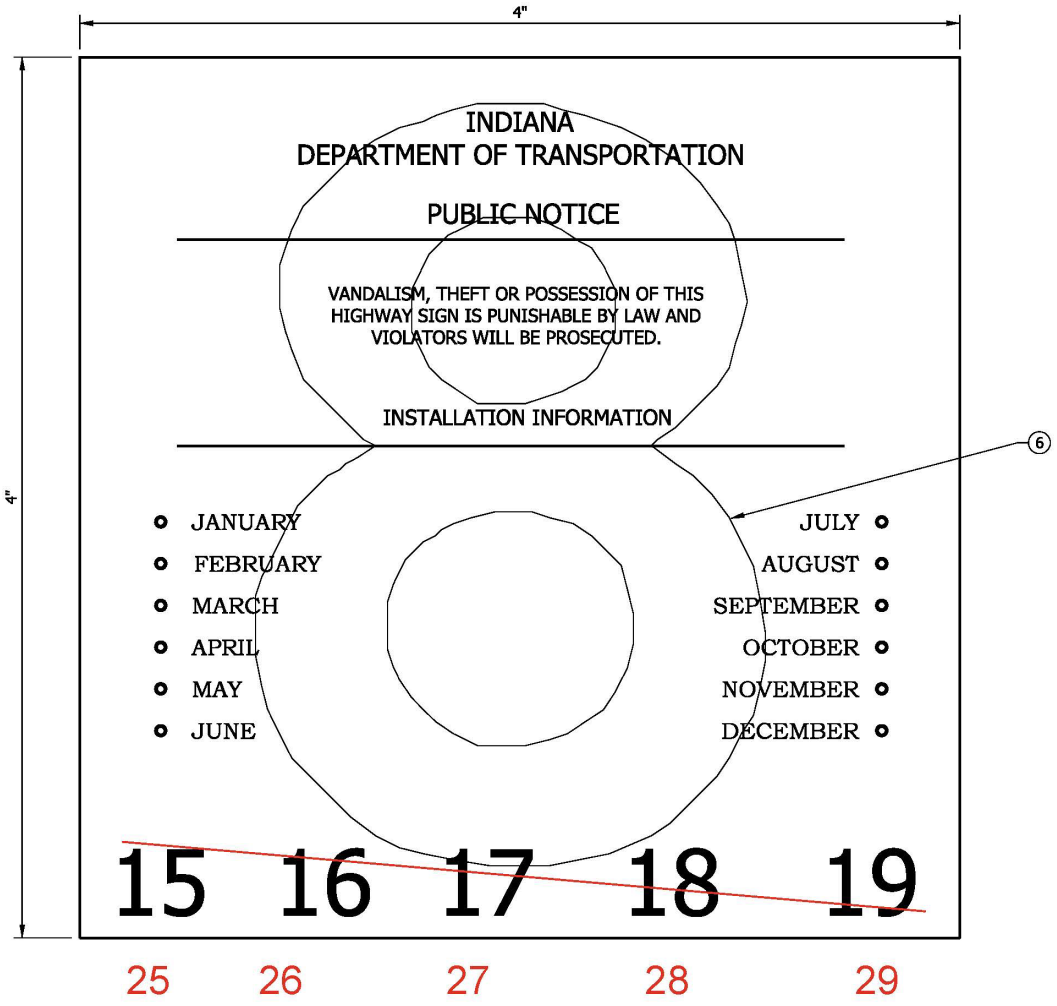
/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-10 Sign Identification Marking (shown markups)

Show last two digits instead of last digit for year (28 instead of 8)



NOTES:

1. Height of lettering shall be 1/8" to 1/4". The height of the dates along the bottom shall be 1/2".
2. Copy shall be black on reflectorized white background.
3. The number of dates along the bottom need not be five, and the first date need not be ~~15~~ 25. However, the installation date shall be shown.
4. The month and year of installation shall be punched by a 1/4" minimum diameter hole.
5. The overlay number is to be of colored transparent sheeting to indicate the last digit of the year of installation.
6. The decade of installation shall be indicated by color of transparent sheeting:

   ~~2018 - 2019 Red~~
   2020 - 2029 Brown
   2030 - 2039 Orange

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGN IDENTIFICATION MARKING SEPTEMBER 2017	
STANDARD DRAWING NO. E 802-SNGS-10	
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER	*/s/ David H. Boruff* 03/16/17 DESIGN STANDARDS ENGINEER DATE */s/ John Leckie* 04/10/17 CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-01 Signs Drawing Index and General Notes (proposed draft)

INDEX	
SHEET NO.	SUBJECT
1	Signs Drawing Index and General Notes
2	Route Marker Details, Sheilds and Auxillary Signs
3	Route Marker Details, Arrow and Cardinal Direction Signs
4	Sign Reflectorization Schedule
5	Sign Reflectorization Schedule
6	Miscellaneous Sign Details
7	Steel Sign Posts, Selection Table
8	Steel Sign Posts, Bracing for Signs Greater Than 90"
9	Steel Sign Posts, Anchor Base Details
10	Sign Identification Marking

GENERAL NOTES:

1. Characters sometimes cannot be accommodated within the space available on guide signs. For this situation, the standard series D characters may be reduced to series C. As a second choice, use the next smaller height commonly available.
2. For independent use of sheet signs, a nylon and metal washer shall be placed between each bolt head and the face of the metal sign. See Sign Bolt Detail on Standard Drawing E 802-SNGS-06.
3. Fabrication details for the signs shown shall be found in the Standard Highway Signs and Markings Book. Shop drawings will be supplied on all other signs not found in the publication.
4. See Standard Drawing E 802-SNPL-02 for mounting height and lateral locations of signs.
5. Splicing of flanged channel post will not be permitted.
6. Wherever white is specified as a color, it is understood to include silver-colored reflecting coatings or elements the reflect white light.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNS
DRAWING INDEX AND GENERAL NOTES

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNGS-01

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-02 Route Marker Details, Sheilds and Auxiliary Signs (proposed draft)

WHITE BACKGROUND WITH BLACK BORDER AND NUMERALS

M1-4(I)

FOR INDEPENDENT USE ONLY

WHITE BACKGROUND WITH BLACK NUMERALS

M1-4(G)

(G) INDICATES SHIELD TO BE USED ON ALL GUIDE SIGNS AND DOES NOT REQUIRE BLACK BORDER

FOR GUIDE SIGN USE

WHITE BACKGROUND WITH BLACK LETTERS, NUMERALS AND BORDER

M1-5

STATE ROUTE MARKER

WHITE LETTERS, NUMERALS, AND BORDER

M1-1

INTERSTATE SHIELD

M1-4(I), M1-4(G), M1-5, M1-1					
12" NUMERALS		18" NUMERALS		24" NUMERALS	
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
24" x 24"	30" x 24"	36" x 36"	45" x 36"	48" x 48"	60" x 48"

M2-1P(S)
M2-1P(I)

M4-5P(I)
M4-5P(S)

M4-6P(S)
M4-6P(I)

M4-4P(S)

(I) INDICATES WHITE LEGEND ON BLUE BACKGROUND (INTERSTATE)
(S) INDICATES BLACK LEGEND ON WHITE BACKGROUND (STATE)

STATE	M2-1P(S)		M4-4P(S)		M4-5P(S)		M4-6P(S)	
INTERSTATE	M2-1P(I)				M4-5P(I)		M4-6P(I)	
SHIELD SIZES	24" x 24" 30" x 24"	36" x 36" 45" x 36"	24" x 24" 30" x 24"	36" x 36" 45" x 36"	24" x 24" 30" x 24"	36" x 36" 45" x 36"	24" x 24" 30" x 24"	36" x 36" 45" x 36"
CORRESPONDING SIGN SIZE	21" x 15"		24" x 12"	36" x 18"	24" x 12"	36" x 18"	24" x 12"	36" x 18"

NOTES:

1. All series M(S) "JCT", "TO", "TRUCK", and "END" shall be white background with black legend and border.
2. All series M(I) "JCT", "TO", "TRUCK", and "END" shall be blue background with white legend and border.
3. Center align numbers about vertical centerline of shield.

INDIANA DEPARTMENT OF TRANSPORTATION

ROUTE MARKER DETAILS
SHIELDS AND AUXILLARY SIGNS

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNGS-02

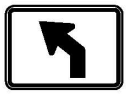
DESIGN STANDARDS ENGINEER DATE

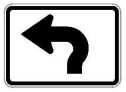
CHIEF ENGINEER DATE

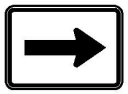
REVISION TO STANDARD DRAWINGS

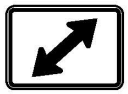
E 802-SNGS-03 Route Marker Details, Arrow and Cardinal Direction Signs (proposed draft)


M5-1P (R or L) (I or S)


M5-2P (R or L) (I or S)

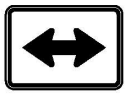

M5-3P (R or L) (I or S)


M6-1P (R or L) (I or S)

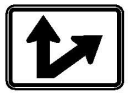

M6-5P (R or L) (I or S)


M6-2P (R or L) (I or S)


M6-3P (I or S)


M6-4P (I or S)


M6-6P (R or L) (I or S)


M6-7P (R or L) (I or S)

NOTES:

1. All series M(S) cardinal directions and arrows shall be white background with black legend and border.
2. All series M(I) cardinal directions and arrows shall be blue background with white legend and border.

(3) Make 1st letter 10% taller.

STATE	M5-1P(S) M6-1P(S) M6-3P(S) M6-5P(S) M6-7P(S) M5-2P(S) M5-3P(S) M6-2P(S) M6-4P(S) M6-6P(S)	
INTERSTATE	M5-1P(I) M6-1P(I) M6-3P(I) M6-5P(I) M6-7P(I) M5-2P(I) M5-3P(I) M6-2P(I) M6-4P(I) M6-6P(I)	
SHIELD SIZES	24" x 24" 30" x 24"	36" x 36" 45" x 36"
CORRESPONDING SIGN SIZE	21" x 15"	30" x 21"

M3-1P (3) (S or I)

M3-2P (3) (S or I)

M3-3P (3) (S or I)

M3-4P (3) (S or I)

STATE	M3-1P(S) M3-2P(S) M3-3P(S) M3-4P(S)			
INTERSTATE	M3-1(I) M3-2(I) M3-3(I) M3-4(I)			
SHIELD SIZES	24" x 24"	30" x 24"	36" x 36"	45" x 36"
CORRESPONDING SIGN SIZE	24" x 12"	24" x 12"	36" x 18"	36" x 18"

INDIANA DEPARTMENT OF TRANSPORTATION

ROUTE MARKER DETAILS
ARROW AND CARDINAL DIRECTION SIGNS

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNGS-03

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-04 Sign Reflectorization Schedule (proposed draft)

SIGN	REMARKS	BACKGROUND	COPY & BORDER
IGD, IGDO, GD	Directional	S-3-H	B
IGI	Information	S-4-H	B
IGS	Services	S-4-H	B
IGDO, GDO Special Panel	Warning Panel	S-10-H	A
R1-1, R1-3P	Stop Sign and All Way Plaque	S-5-H	S-2-H
R1-2	Yield Sign	S-2-H	S-5-H
R1-5	Yield Here to Pedestrians	S-2-H	S-5-H, O-1-H
R1-6	In-Street Yield Here to Pedestrians	S-10-H	S-2-H, S-5-H, O-1-H
R1-9	Overhead Yield to Pedestrians	S-2-H	S-10-H, O-1-H
R2-3P	Night Speed Limit Plaque	0-1-H	S-2-H
R3-1, R3-2, R3-4, R3-18, R3-27	Movement Prohibition Signs	S-2-H	S-5-H, 0-1-H
R5-1	Do Not Enter	S-5-H	S-2-H
R5-1a	Wrong Way	S-5-H	S-2-H
R5-2, R5-6, R9-13 thru R9-16	Selective Exclusion Signs	S-2-H	S-5-H, 0-1-H
R7-1, R7-4, R7-107, R7-201P	No Parking (Urban)	S-2-H	S-5-H
R7-2a, R7-107a	No Parking (Urban)	S-2-H	S-5-H, 0-1-H
R7-5, R7-5a, R7-108	Restricted Parking	S-2-H	S-7-H
R7-8	Reserved Parking	S-2-H	S-7-H, S-6-H
R8-1, R8-1a, R8-2, R8-3, R8-3b, R8-3c, R8-8	No Parking (Rural)	S-2-H	S-5-H
R8-3a	No Parking (Rural)	S-2-H	S-5-H, 0-1-H
R9-3, R9-4	Pedestrian Signs	S-2-H	S-5-H, 0-1-H
R10-3b thru R10-3i	Pedestrian Pushbutton Signs	S-2-H	S-9-H, 0-1-H
All other regulatory signs		S-2-H	0-1-H
W3-1a, W3-2a	Stop & Yield Ahead	S-10-H	S-2-H, S-5-H, O-1-H
W3-3	Signal Ahead	S-10-H	S-5-H S-7-H, O-1-H
All School Warning Signs		S-11-H	O-1-H
All other warning signs	Except Construction Signs, School Warning Signs	S-10-H	O-1-H
M1-1	Interstate Shields	S-8-H	S-2-H
M1-2, M1-3	Business Shields	S-7-H	S-2-H
M1-4	U.S. Shields	S-2-H	O-1-H
M1-5	State Shields	S-2-H	O-1-H
M1-6	County Shields	S-4-H	S-1-H
M1-7	National Forest	△	S-2-H

BACKGROUND, COPY & BORDER KEY

CODE	DESCRIPTION
0-1-H	Paint (Black) For Use With Prismatic Reflective Sheeting
S-1-H	Prismatic Reflective Sheeting (Yellow)
S-2-H	Prismatic Reflective Sheeting (Silver)
S-3-H	Prismatic Reflective Sheeting (Green)
S-4-H	Prismatic Reflective Sheeting (Blue)
S-5-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red)
S-6-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Blue)
S-7-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Green)
S-8-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red and Blue)
S-9-H	Prismatic Reflective Sheeting (Fluorescent Orange)
S-10-H	Prismatic Reflective Sheeting (Fluorescent Yellow)
S-11-H	Prismatic Reflective Sheeting (Fluorescent Yellow-Green)
A	Cut - Out Letters Which Are Painted Black
B	Cut - Out Letters and Border - White Prismatic Reflective Sheeting
△	Brown Background with Prismatic Reflective Sheeting

SIGN IDENTIFICATION CODES

IGDO	Interstate Guide Directional Overhead
IGD	Interstate Guide Directional
IGS	Interstate Guide Service and Rest Area
IGI	Interstate Guide Information
GDO	Guide Directional Overhead
GD	Guide Directional
R	Regulatory Sign
W	Warning, Construction and Maint. Signs
M	Route Markers and Aux. Markers for Assemblies
D	Destination Sign
I	Information

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN REFLECTORIZATION SCHEDULE

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNGS-04

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-05 Sign Reflectorization Schedule (proposed draft)

SIGN	REMARKS	BACKGROUND	COPY & BORDER
M2-1P (I), M3-1P (I), M3-2P (I), M3-3P (I), M3-4P (I)	Auxiliary Markers	S-6-H	S-2-H
M4-5P (I), M4-7P (I), M5-1P (I), M5-2P (I)	Auxiliary Markers	S-6-H	S-2-H
M6-1P thru M6-7P	Auxiliary Markers	S-6-H	S-2-H
M4-5P, M4-6P	Auxiliary Markers	S-7-H	S-2-H
M4-8, M4-9	Detour Marker	S-9-H	O-1-H
All Other Marker Auxiliaries		S-2-H	O-1-H
D4-1	Parking	S-2-H	S-7-H
D5 Series, D9 Series, D12 Series	Rest Area, Service, Info	S-6-H	S-2-H
D7-2	Recreation Area	△	S-2-H
All Other Destination Signs		S-3-H	S-2-H
I-17, I-18, I-19		S-6-H	S-2-H
I-20, I-21		S-2-H	O-1-H
All Other I-Signs		S-7-H	S-2-H
All Construction Signs		S-9-H	O-1-H
All Maintenance Signs		S-9-H	O-1-H

BACKGROUND, COPY AND BORDER KEY

CODE	DESCRIPTION
O-1-H	Paint (Black) For Use With Prismatic Reflective Sheeting
S-1-H	Prismatic Reflective Sheeting (Yellow)
S-2-H	Prismatic Reflective Sheeting (Silver)
S-3-H	Prismatic Reflective Sheeting (Green)
S-4-H	Prismatic Reflective Sheeting (Blue)
S-5-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red)
S-6-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Blue)
S-7-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Green)
S-8-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red and Blue)
S-9-H	Prismatic Reflective Sheeting (Fluorescent Orange)
A	Cut - Out Letters Which Are Painted Black
B	Cut - Out Letters And Border - White Prismatic Reflective Sheeting
△	Brown Background With Prismatic Reflective Sheeting

SIGN IDENTIFICATION CODES

IGDO	Interstate Guide Directional Overhead
IGD	Interstate Guide Directional
IGS	Interstate Guide Service and Rest Area
IGI	Interstate Guide Information
GDO	Guide Directional Overhead
GD	Guide Directional
R	Regulatory Sign
W	Warning, Construction and Maint. Signs
M	Route Markers and Aux. Markers for Assemblies
D	Destination Sign
I	Information

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN REFLECTORIZATION SCHEDULE

SEPTEMBER 2026

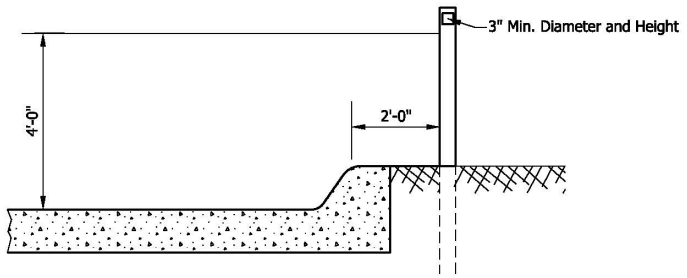
STANDARD DRAWING NO. E 802-SNGS-05

DESIGN STANDARDS ENGINEER DATE

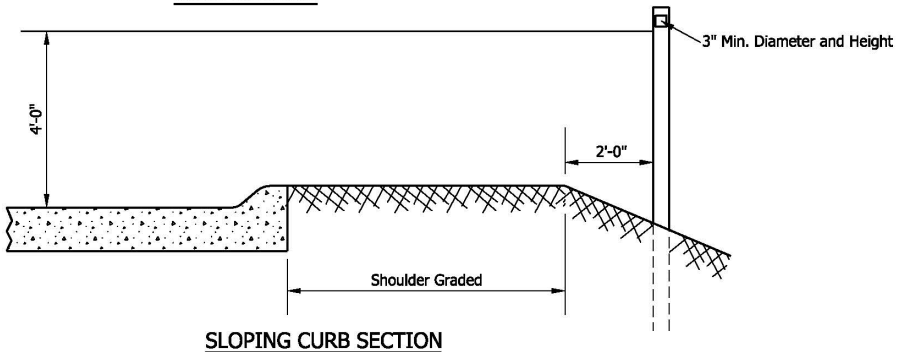
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

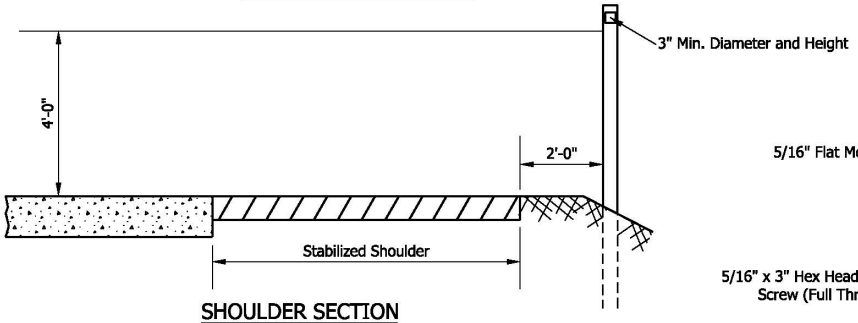
E 802-SNGS-06 Miscellaneous Sign Details (proposed draft)



CURB SECTION



SLOPING CURB SECTION



SHOULDER SECTION

DELINEATOR DETAILS ②

NOTES:

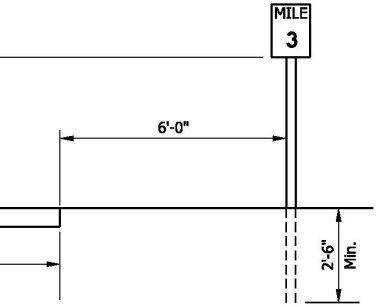
① Reference markers shall be installed in accordance with MUTCD.

② Delineators shall be selected from the INDOT Qualified Products List.

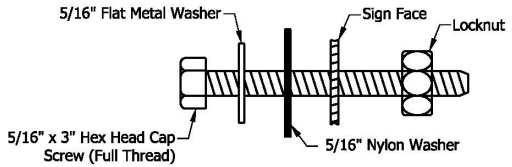
3. Signs shall be fastened to the posts with bolts, metal and nylon washers and locknut. The nylon washer and the metal washer shall be placed between each bolt head and the face of the sign.

4. Nut shall be tightened sufficiently so that the sign is firmly against the post. However, there shall be no deformation of aluminum sheeting or twisting or damage to the reflective sheeting.

5. Bolt can either be stainless steel or galvanized steel bolt.



TYPICAL MILE OR REFERENCE POST ①



SIGN BOLT DETAIL

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS SIGN DETAILS

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNGS-06

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-07 Steel Sign Posts, Selection Table (proposed draft)

WIDTH X HEIGHT ("W X H")	MOUNTING HEIGHT							
	5 FT		6 FT		7 FT		8 FT	
	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST
12 x 12, 12 x 6, 12 x 9 12 x 12, 12 x 18, 12 x 30	1-A	1-Type 1	1-A	1-Type 1	1-A	1-Type 1	1-A	1-Type 1
12 x 36	1-A		1-A		1-A		1-A	
18 x 6, 18 x 12, 18 x 18	1-A		1-A		1-A		1-A	
18 x 24	1-A		1-A		1-A		1-A	
18 x 30	1-A		1-A		1-A		1-A	
18 x 48	1-A		1-A		1-A		1-A	
24 x 12, 24 x 18, 24 x 24	1-A		1-A		1-A		1-A	
24 x 30	1-A		1-A		1-A		1-A	
24 x 36	1-A		1-A		1-A		1-A	
30 x 18	1-A		1-A		1-A		1-A	
30 x 24	1-A		1-A		1-A		1-A	
30 x 30	1-A		1-A		1-A		1-A	
30 x 36	1-A		1-A		1-A		1-A	
30 x 42	1-B		1-B		1-B		1-B	
30 x 48	1-B		1-B		1-B		1-B	
36 x 12	2-A		2-A		2-A		2-A	
36 x 18	2-A		2-A		2-A		2-A	
36 x 24	2-A		2-A		2-A		2-A	
36 x 36	2-A		2-A		2-A		2-A	
36 x 48	2-A		2-A		2-A		2-A	
42 x 18	2-A		2-A		2-A		2-B	
42 x 24	2-A		2-A		2-A		2-A	
42 x 30	2-A		2-A		2-A		2-A	
42 x 36	2-A		2-A		2-A		2-A	
48 x 16	2-A		2-A		2-A		2-A	
48 x 18	2-A		2-A		2-A		2-A	
48 x 24	2-A		2-A		2-A		2-A	
48 x 30	2-A		2-A		2-A		2-A	
48 x 36	2-A	2-Type 2	2-A	2-Type 2	2-A	2-Type 2	2-A	2-Type 2
48 x 48	2-A		2-B		2-B		2-B	
48 x 60	2-B		2-B		2-B		2-B	
60 x 24	2-A		2-A		2-A		2-A	
60 x 30	2-A		2-A		2-A		2-A	
60 x 36	2-A		2-A		2-B		2-B	
60 x 48	2-B		2-B		2-B		2-B	
72 x 24	2-A		2-A		2-A		2-A	
72 x 36	2-B		2-B		2-B		2-B	
90 x 36 120 x 36	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3

NOTES:

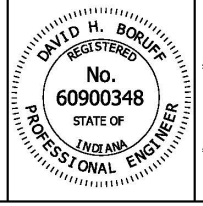
1. See Standard Drawing E 802-SNGS-08 and -09 for square steel sign post installation details.
2. The Type 1 post shall be 2 1/4 in. x 2 1/4 in. x 12 ga. wall thickness.
3. The Type 2 post shall be 2 in. x 2 in. x 12 ga. wall thickness.
4. The Type 3 post shall be 2 1/2 in. x 2 1/2 in. x 12 ga. wall thickness.
5. Flanged channel posts are as specified and as shown on the plans.

INDIANA DEPARTMENT OF TRANSPORTATION

STEEL SIGN
POST SELECTION TABLE

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-07

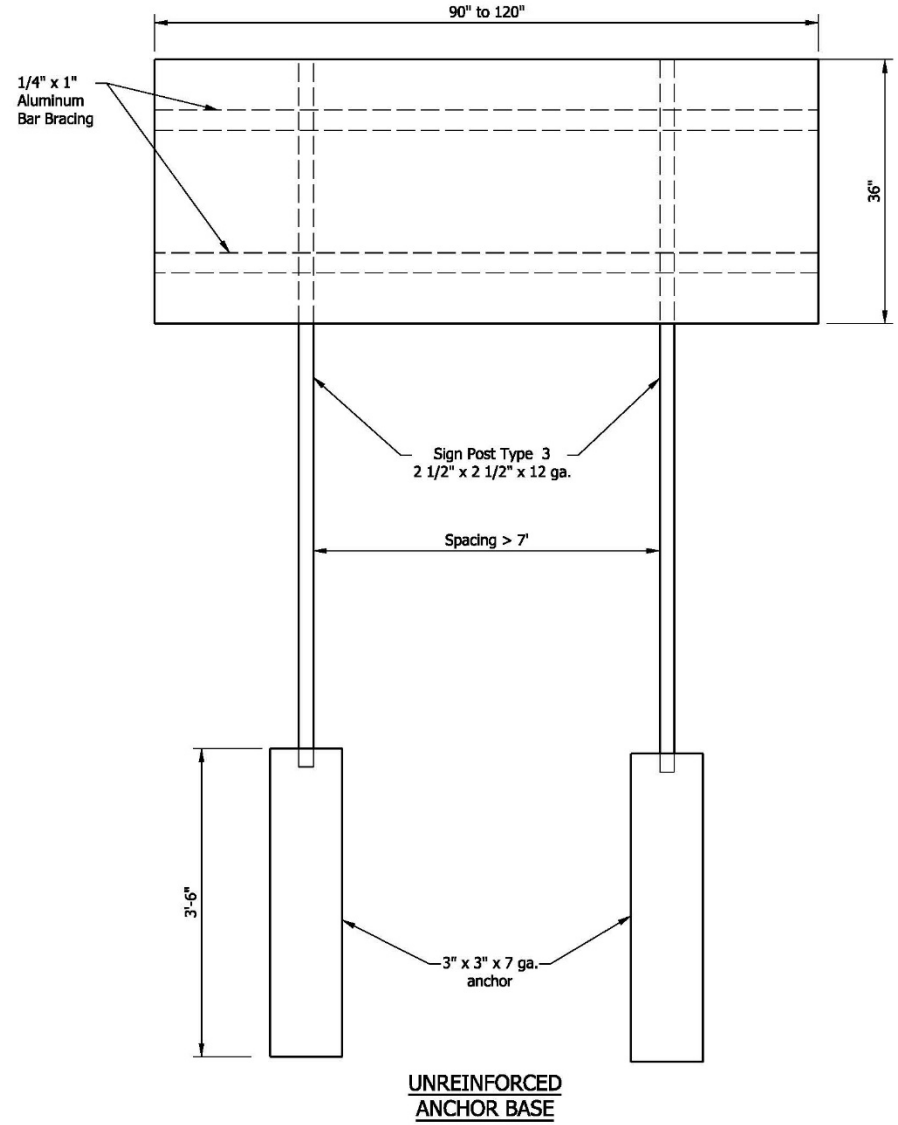


/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-08 Steel Sign Posts, Bracing for Signs Greater Than 90" (no changes)



UNREINFORCED
ANCHOR BASE

NOTES:

1. Maximum sign width 120", maximum sign area 30 sq. ft.

INDIANA DEPARTMENT OF TRANSPORTATION

STEEL SIGN POSTS
BRACING FOR SIGNS GREATER THAN 90"

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-08

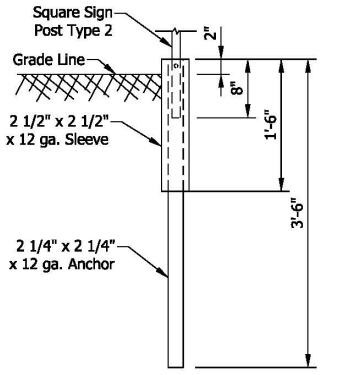
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

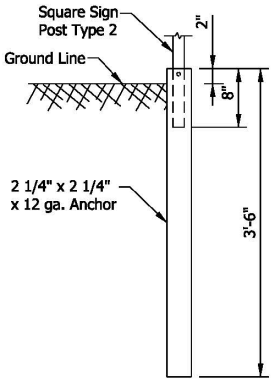
/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

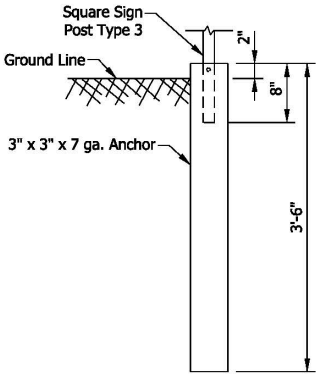
E 802-SNGS-09 Steel Sign Posts, Anchor Base Details (no changes)



REINFORCED ANCHOR BASE



UNREINFORCED ANCHOR BASE

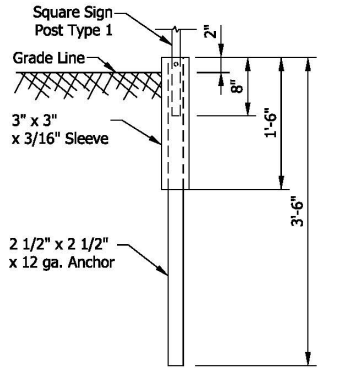


UNREINFORCED ANCHOR BASE

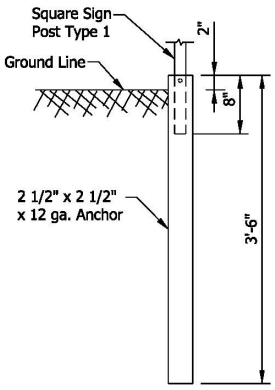
NOTES:

(1) See Standard Drawing E 802-SNGS-07 for sign size and E 802-SNPL-02 for horizontal and vertical sheet sign clearance.

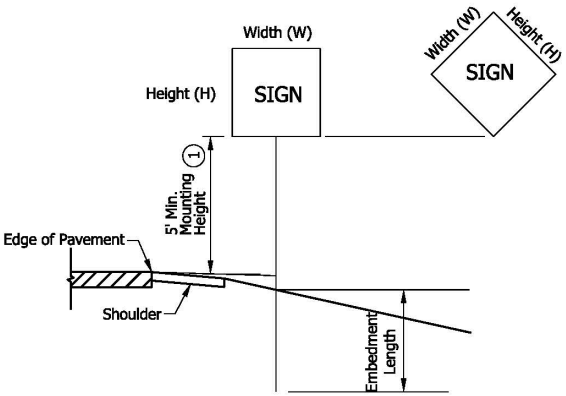
POST	TYPE	WALL THICKNESS	NO. OF POSTS PERMITTED IN 7 ft PATH	EMBEDMENT LENGTH
U-CHANNEL	A, B		1 OR 2	3'-6"
SQUARE	1	12 ga.	1	Anchor Base
	2	12 ga.	1 OR 2	
	3	12 ga.	1	



REINFORCED ANCHOR BASE



UNREINFORCED ANCHOR BASE



INDIANA DEPARTMENT OF TRANSPORTATION

STEEL SIGN POSTS
ANCHOR BASE DETAILS

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-09

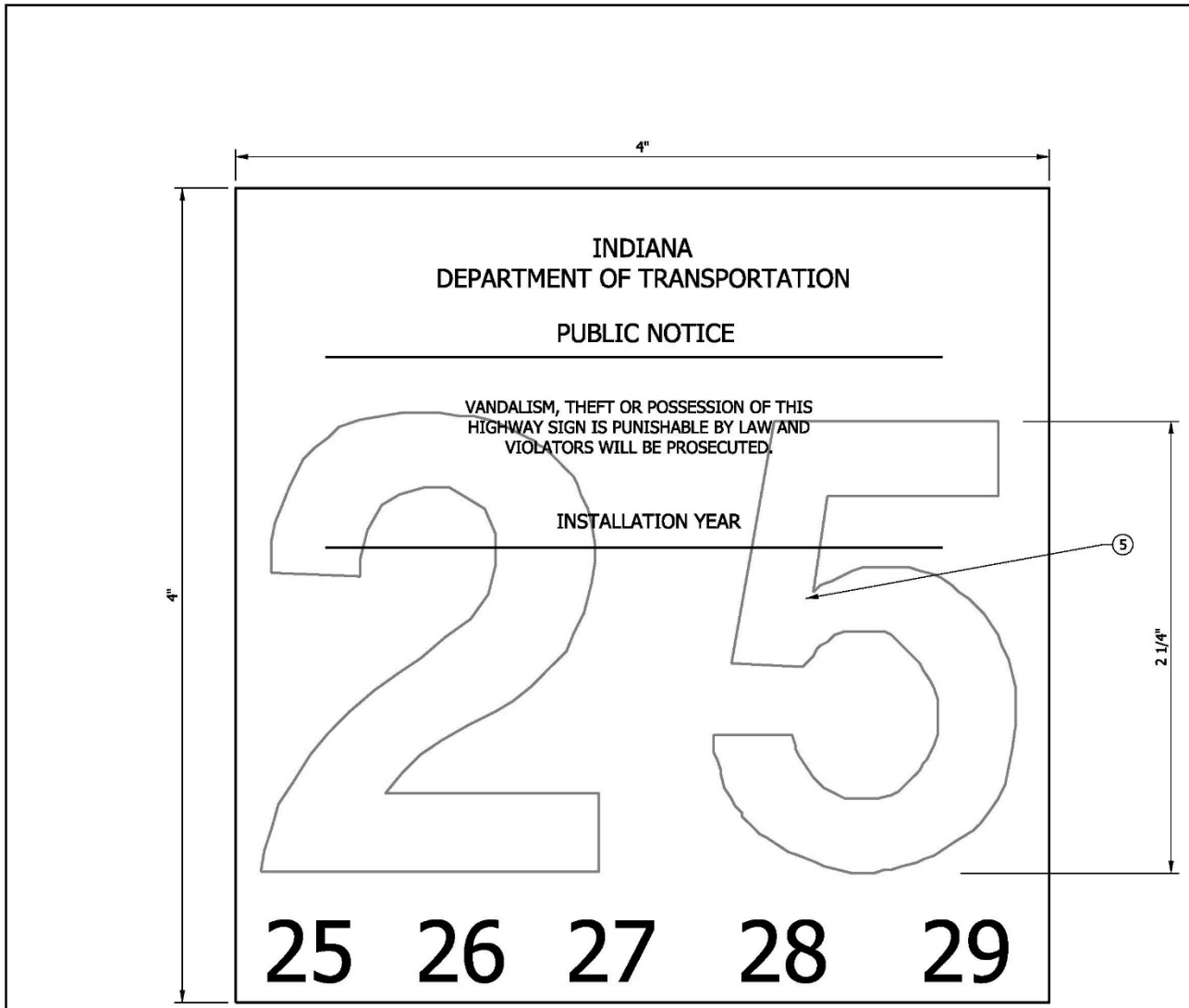
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNGS-10 Sign Identification Marking (proposed draft)



NOTES:

1. Height of lettering shall be 1/8" to 1/4". The height of the dates along the bottom shall be 1/2".
2. Copy shall be black on reflectorized white background.
3. The number of dates along the bottom need not be five, and the first date need not be 25. However, the installation year shall be shown.
4. The overlay number is to be of colored transparent sheeting to indicate the last two digits of the year of installation.

(5) The decade of installation shall be indicated by color of transparent sheeting:

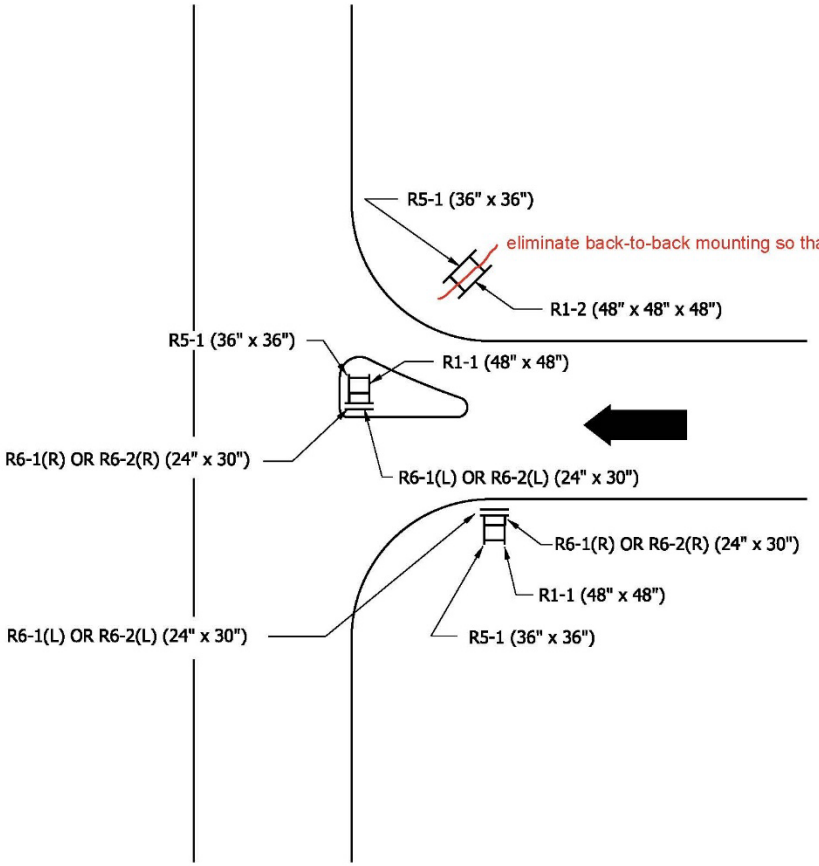
2020 - 2029 Brown
2030 - 2039 Orange

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGN IDENTIFICATION MARKING SEPTEMBER 2026	
STANDARD DRAWING NO. E 802-SNGS-10	
	DESIGN STANDARDS ENGINEER DATE CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNPL-01 Sign Details Typical Location (shown markups)

Add index sheet



INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DETAILS
TYPICAL LOCATION

SEPTEMBER 2010

STANDARD DRAWING NO. E 802-SNPL-01 02

RICHARD L. VanCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER
DESIGN STANDARDS ENGINEER

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

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

REVISION TO STANDARD DRAWINGS

E 802-SNPL-02 Horizontal and Vertical Sheet Sign Clearance (shown markups)

TYPE OF ROADWAY / CLEARANCE	INTERSTATE AND DIVIDED HIGHWAY WITH SHOULDER, RURAL & URBAN	DIVIDED HIGHWAY WITH CURB, RURAL & URBAN	NON-DIVIDED HIGHWAY, RURAL OR CITY STREET	NON-DIVIDED HIGHWAY, URBAN
VERTICAL: EDGE OF TRAVELED WAY PAVEMENT TO BOTTOM OF SIGN OR SIGNS	7 ft TO 7.5 ft ①	7 ft TO 7.5 ft ②	5 ft TO 5.5 ft ④ ②	7 ft TO 7.5 ft ②
HORIZONTAL: EDGE OF TRAVELED WAY PAVEMENT TO EDGE OF SIGN OR SIGNS	12 ft min. or 6 ft min. from the shoulder, whichever is greater	6 ft min. ③	12 ft min. or 6 ft min. from the shoulder, whichever is greater	12 ft min. or 6 ft min. from the shoulder, whichever is greater ③

NOTES:

① If a secondary sign is mounted below another sign, the secondary sign shall be installed at least 5 ft. above the level of the pavement edge.

② The height to the bottom of a secondary sign mounted below another sign may be 1 ft. less than the height specified above.

③ In urban areas where lateral offsets are limited, a minimum lateral offset of 2 ft. may be used. A minimum offset of 1 ft. from the face of the curb may be used in urban areas where sidewalk width is limited or where existing poles are close to the curb.

④ ~~Where parking or pedestrian movements occur on an expected recurring~~ Where parking, sidewalk, or pedestrian movements are present basis, the clearance to the bottom of the sign shall be at least 7 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL SHEET SIGN CLEARANCE

SEPTEMBER 2003

STANDARD DRAWING NO. E 802-SNPL-02~~03~~

RICHARD L. VANCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER
DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNPL-01 Sign Placement Index Sheet (proposed draft)

INDEX	
SHEET NO.	SUBJECT
1	Sign Placement Index Sheet
2	Sign Placement at Exit Ramps
3	Sign Placement, Horizontal and Vertical Sign Clearance

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN PLACEMENT
INDEX SHEET

SEPTEMBER 2026

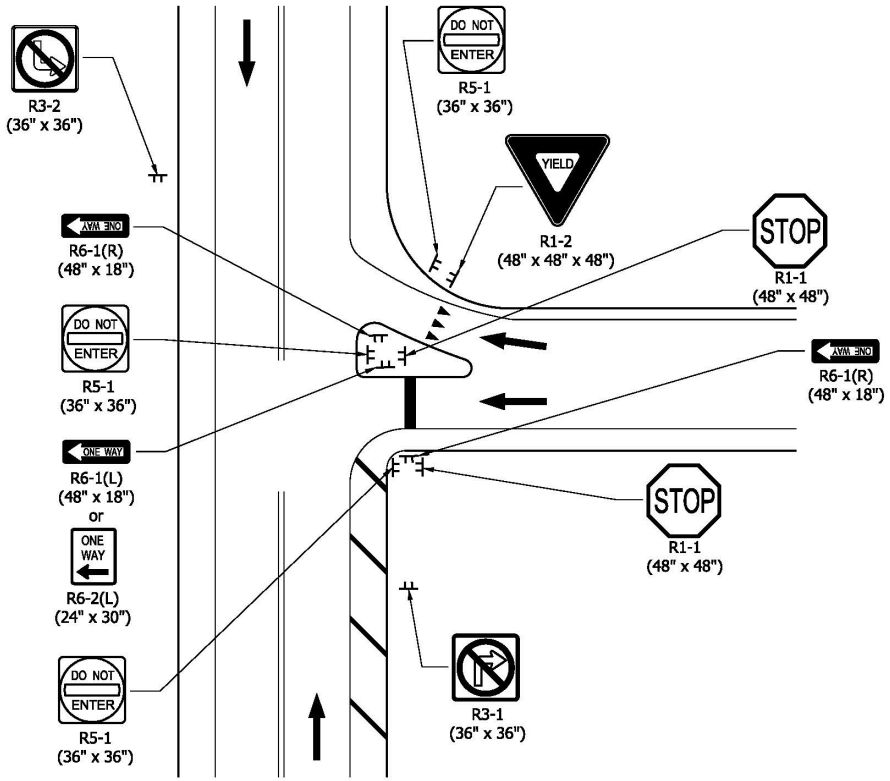
STANDARD DRAWING NO. E 802-SNPL-01

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNPL-02 Sign Placement at Exit Ramps (proposed draft)



NOTES:

1. Diagonal lines shall be 12 in. wide and spaced 20 ft apart.
2. Sign locations shall be as shown on the plans or as directed.
3. R1-2 yield sign shall be at least 7 ft away from R5-3 signs.

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGN PLACEMENT AT EXIT RAMPS SEPTEMBER 2026	
STANDARD DRAWING NO. E 802-SNPL-02	
	DESIGN STANDARDS ENGINEER DATE CHIEF ENGINEER DATE

REVISION TO STANDARD DRAWINGS

E 802-SNPL-03 Horizontal and Vertical Ground Mounted Sign Clearance (proposed draft)

TYPE OF ROADWAY CLEARANCE	INTERSTATE AND DIVIDED HIGHWAY WITH SHOULDER, RURAL & URBAN	DIVIDED HIGHWAY WITH CURB, RURAL & URBAN	NON-DIVIDED HIGHWAY, RURAL OR CITY STREET	NON-DIVIDED HIGHWAY, URBAN
VERTICAL: EDGE OF TRAVELED WAY PAVEMENT TO BOTTOM OF SIGN OR SIGNS	7 ft TO 7.5 ft (1)	7 ft TO 7.5 ft (2)	5 ft (2) TO 5.5 ft (4)	7 ft TO 7.5 ft (2)
HORIZONTAL: EDGE OF TRAVELED WAY PAVEMENT TO EDGE OF SIGN OR SIGNS	12 ft min. or 6 ft min. from the shoulder, whichever is greater	6 ft min. (3)	12 ft min. or 6 ft min. from the shoulder, whichever is greater	12 ft min. or 6 ft min. from the shoulder, whichever is greater (3)

NOTES:

(1) If a secondary sign is mounted below another sign, the secondary sign shall be installed at least 5 ft above the level of the pavement edge.

(2) The height to the bottom of a secondary sign mounted below another sign may be 1 ft less than the height specified above.

(3) In urban areas where lateral offsets are limited, a minimum later offset of 2 ft may be used. A minimum offset of 1 ft from the face of the curb may be used in urban areas where sidewalk width is limited or where existing poles are close to the curb.

(4) Where parking, sidewalk, or pedestrian movements are present, the clearance to the bottom of the sign shall be at least 7 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL
GROUND MOUNTED SIGN CLEARANCE

SEPTEMBER 2026

STANDARD DRAWING NO. E 802-SNPL-03

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

COMMENTS AND ACTION

E 802-SNDH series
E 802-SNGS series
E 802-SNPL series

DISCUSSION:
This item was introduced and presented by Mr. Bruno, sitting in as proxy for Mr. Boruff, who stated that Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. The 802-SNDH, 802-SNPL, and 802-SNGS Standard Drawing series need various minor updates for the current edition of the MUTCD.

Mr. Bruno proposed to update this Standard Drawing series for the current edition of MUTCD. Further detailed explanations were provided by Mr. Bruno.

There were no further discussion and this item passed as submitted.
The effective dates will be discussed at the next Traffic Standards Subcommittee meeting.

Motion: Mr. Bruno
Second: Mr. Orton
Ayes: 10
Nays: 0
FHWA Approval: YES

Action:

X Passed as Submitted
___ Passed as Revised
___ Withdrawn

2026 Standard Specifications Sections:
802, pp. 907 - 917.

Recurring Special Provisions or Plan Details:
NONE

Standard Drawing affected:
802-SNDH, 802-SNPL, and 802-SNGS

Design Manual Chapter:
502

GIFE Section:
NONE

___ 2028 Standard Specifications
___ Revise Pay Items List
___ Notification to Designers if change is not addressed by RSP

___ Create RSP (No.___)
Effective:

___ Revise RSP (No.___)
Effective:

X Standard Drawings 802-SNDH, 802-SNPL, and 802-SNGS
Effective: September 1, 2026

___ Create RPD (No. ___)
Effective:

___ GIFE Update
___ Frequency Manual Update
___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. The 808-DLIM Standard Drawing series need various minor updates for the current edition of the MUTCD and the table in Standard Drawing 808-MKPM-06 needs to be updated for the current edition of the MUTCD.

PROPOSED SOLUTION: Update these Standard Drawing series for the current edition of the MUTCD.

APPLICABLE STANDARD SPECIFICATIONS: 808.04(b)

APPLICABLE STANDARD DRAWING: 808-DLIM series and Standard Drawing 808-MKPM-06

APPLICABLE DESIGN MANUAL CHAPTER: 502

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: N/A

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Reviewed by IMUTCD Steering Committee

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Required for contracts with any 808 pay items.

IMPACT ANALYSIS (attach report): Yes

Submitted By: Joe Bruno on behalf of Dave Boruff

Title: Sr. Traffic Engineer

Division: Traffic Engineering Division

E-mail: jbruno@indot.in.gov

Date: 3/20/2026

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 Qualified Products List (QPL)? No
Will this proposal improve:

- Construction costs? No
- Construction time? No
- Customer satisfaction? Yes
- Congestion/travel time? Yes
- Ride quality? No

Will this proposal reduce operational costs or maintenance effort? No

Will this item improve safety:

- For motorists? Yes
- For construction workers? No

Will this proposal improve quality for:

- Construction procedures/processes? Yes
- Asset preservation? No
- Design process? Yes

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? Yes

Is this proposal needed for compliance with:

- Federal or State regulations? Yes
- 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 SPECIFICATIONS AND STANDARD DRAWINGS

SECTION 808 – PAVEMENT TRAFFIC MARKINGS
808.04(b) Lane Lines

808-T-2xx WIDE LINES

(Adopted xx-xx-26)

The Standard Specifications are revised as follows:

SECTION 808, BEGIN LINE 110, DELETE AND INSERT AS FOLLOWS:

Wide lane lines for lane drops, route splits, or auxiliary lanes shall be white in color and shall be ~~10~~*12* in. wide on the state highway system, and 8 in. wide on all other roads. White solid lines shall be used to mark lane lines only when specified or directed.

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-01 Dotted Line Markings, Index and General Notes

INDEX	
SHEET NO.	SUBJECT
1	Dotted Line Markings, Index and General Notes
2	Dotted Lines for Freeway Acceleration Lanes
3	Dotted Lines for Freeway Deceleration Lanes
4	Freeway Short Auxiliary Lanes and Extended Auxiliary Lanes
5	Freeway Lane Drops and Route Splits
6	Lane Drops at Intersections
7	Dotted Lines for Freeway Double Acceleration Lanes
8	Dotted Lines for Freeway Double Deceleration Lanes
9	Major Diverge or Route Split with Option Lane

GENERAL NOTES:

1. The dotted line details for freeways shall also apply to collector distributor roads that are part of a freeway.
2. The dotted line details shall also apply to interchanges on the state highway system.

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINE MARKINGS
INDEX AND GENERAL NOTES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-01

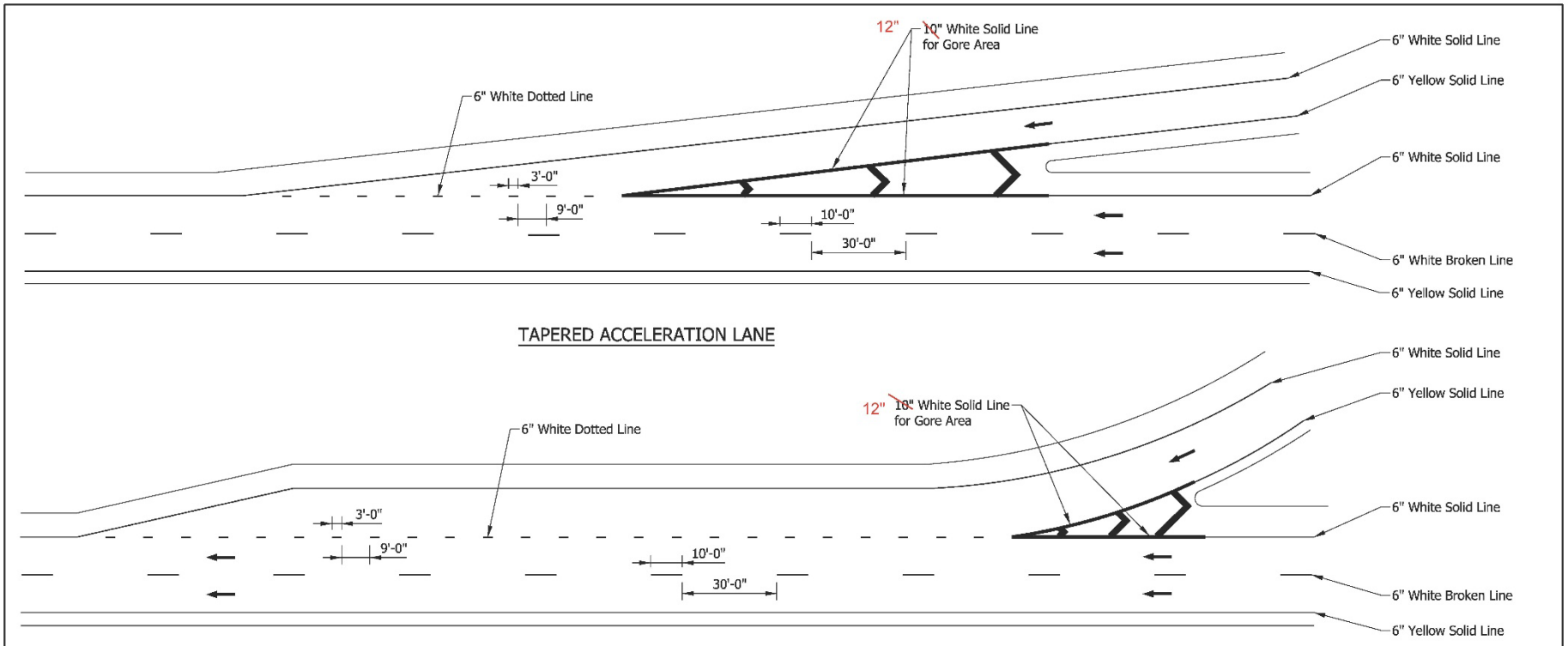
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 05/04/23
DESIGN STANDARDS ENGINEER DATE

05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-02 Dotted Lines for Freeway Acceleration Lanes (shown markups)



NOTE:

1. The 10 in. white solid lines for gore areas shall connect at the theoretical gore.

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINES FOR FREEWAY ACCELERATION LANES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-02

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

05/04/23
DESIGN STANDARDS ENGINEER DATE

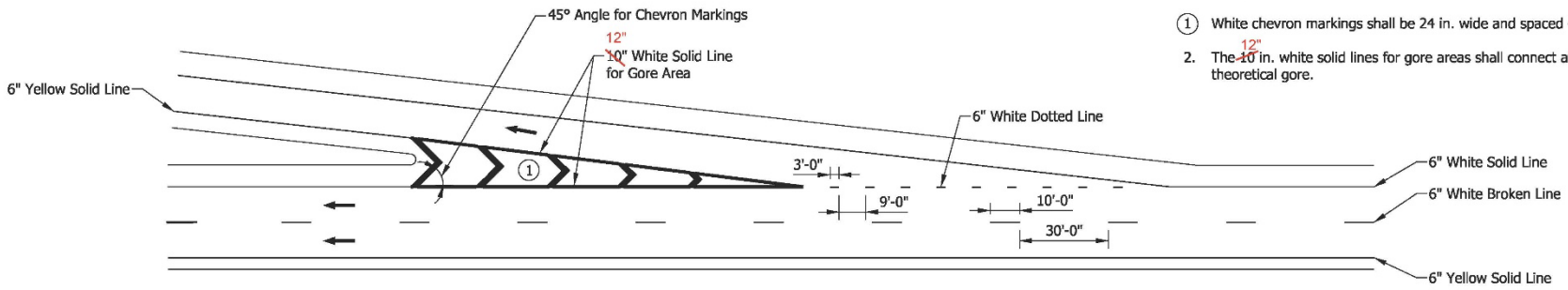
05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

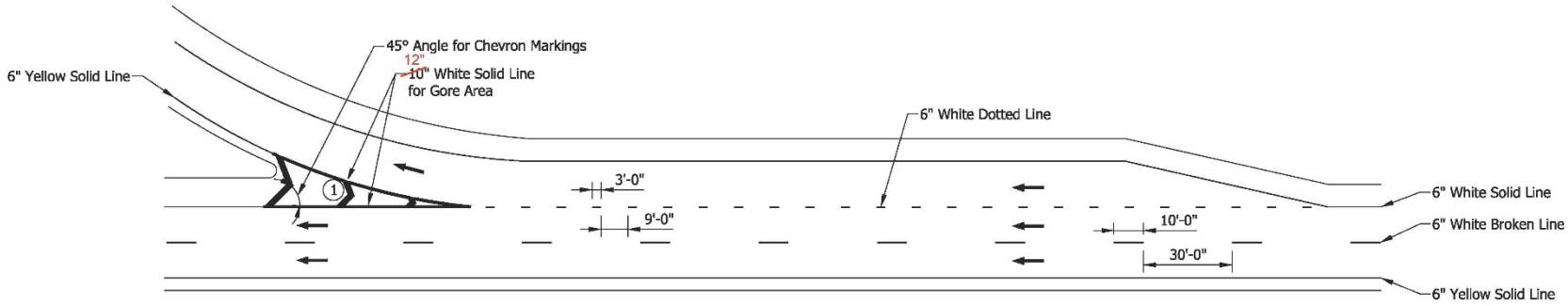
E 808-DLIM-03 Dotted Lines for Freeway Deceleration Lanes (shown markups)

NOTES:

1. White chevron markings shall be 24 in. wide and spaced 40 ft apart.
2. The ~~10~~ 12 in. white solid lines for gore areas shall connect at the theoretical gore.



TAPERED DECELERATION LANE



PARALLEL DECELERATION LANE

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINES FOR FREEWAY DECELERATION LANES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-03

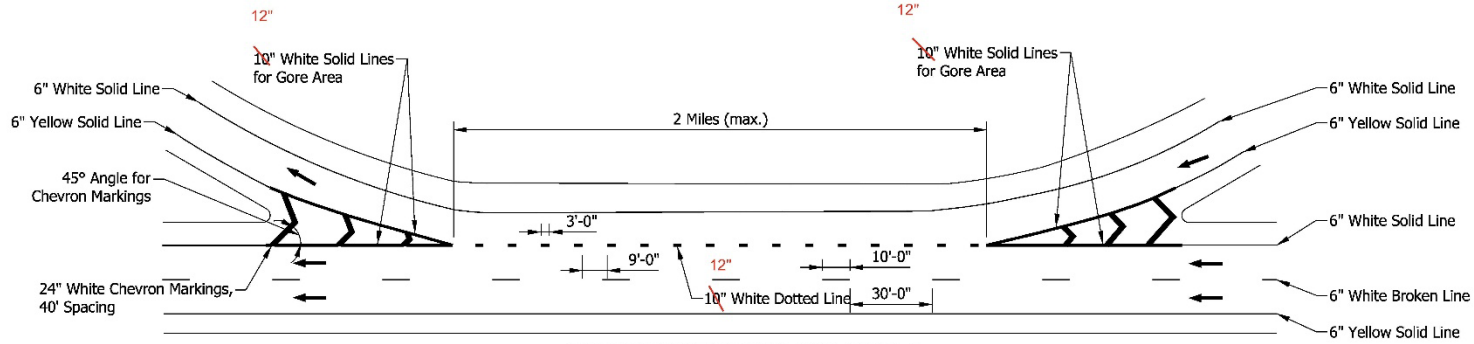
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

05/04/23
DESIGN STANDARDS ENGINEER DATE

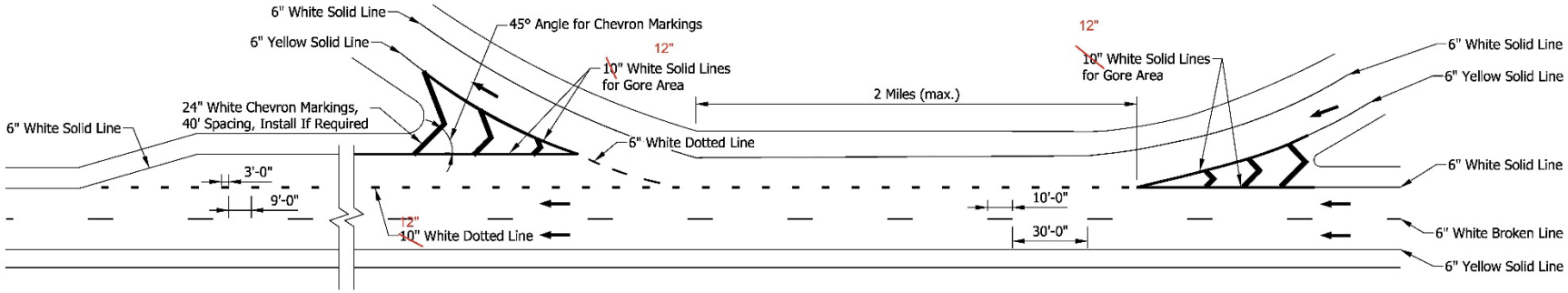
05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-04 Freeway Short Auxiliary Lanes and Extended Auxiliary Lanes (shown markups)



AUXILIARY LANE LESS THAN 2 MILES



EXTENDED AUXILIARY LANE

NOTE:

1. The 10 in. white solid lines for gore areas shall connect at the theoretical gore.

INDIANA DEPARTMENT OF TRANSPORTATION

FREEWAY SHORT AUXILIARY LANES AND EXTENDED AUXILIARY LANES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-04

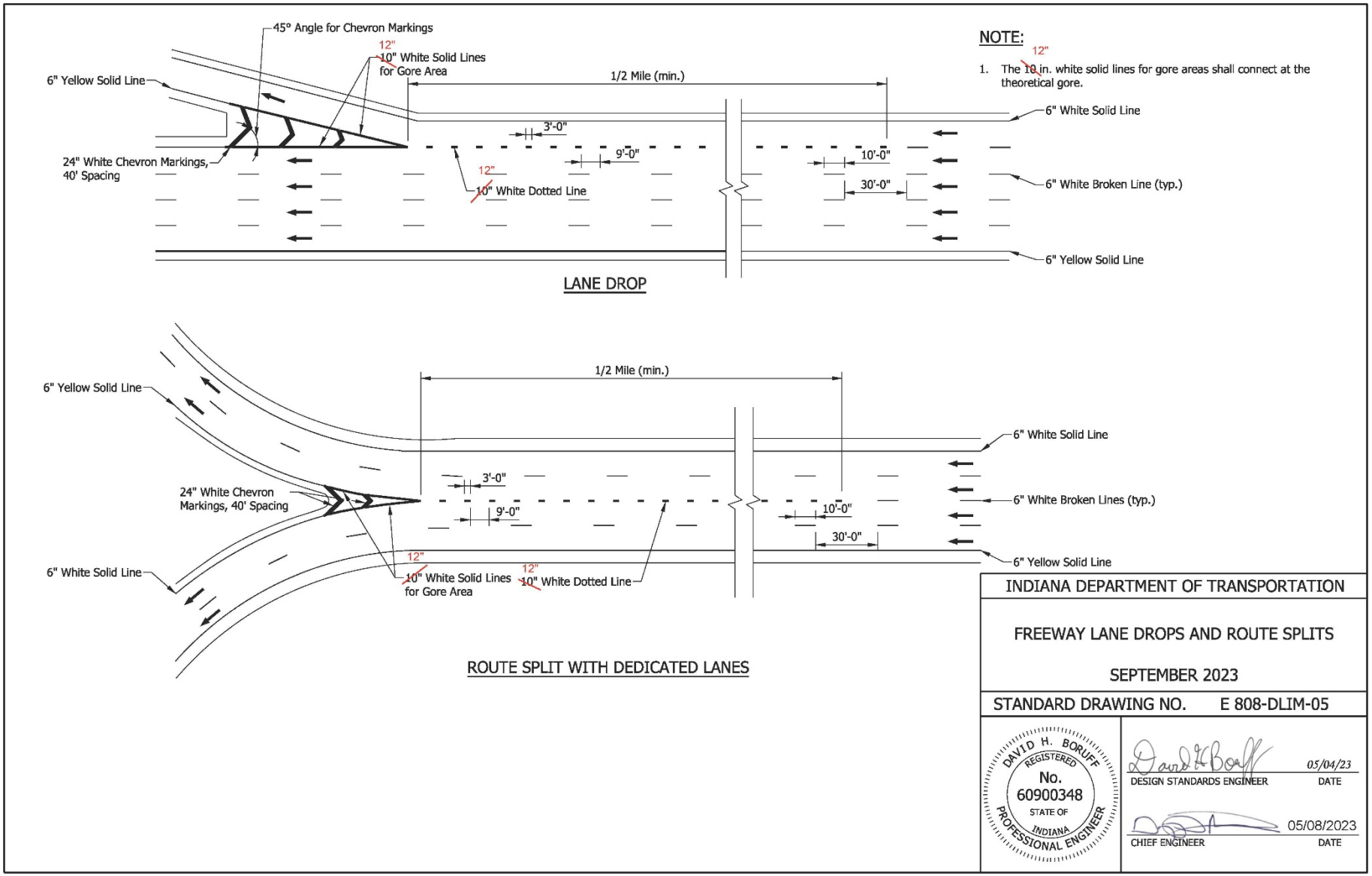
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

05/04/23
DESIGN STANDARDS ENGINEER DATE

05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-05 Freeway Lane Drops and Route Splits (shown markups)

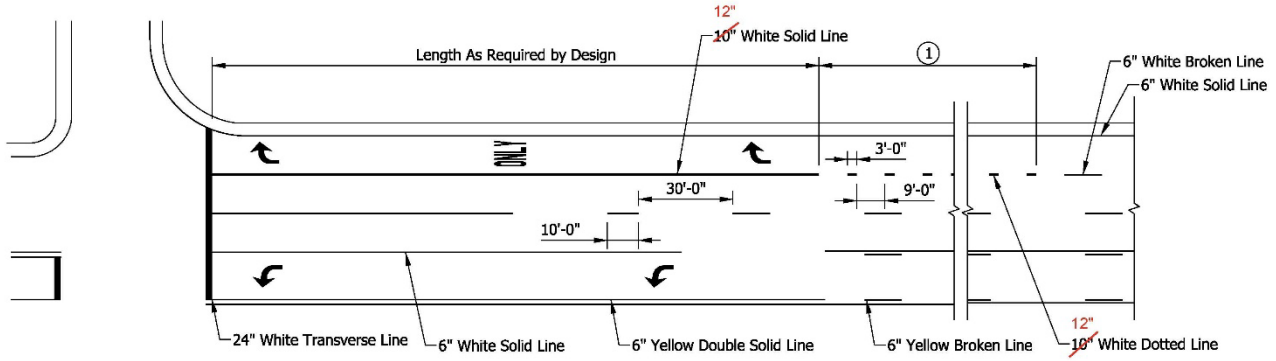


REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

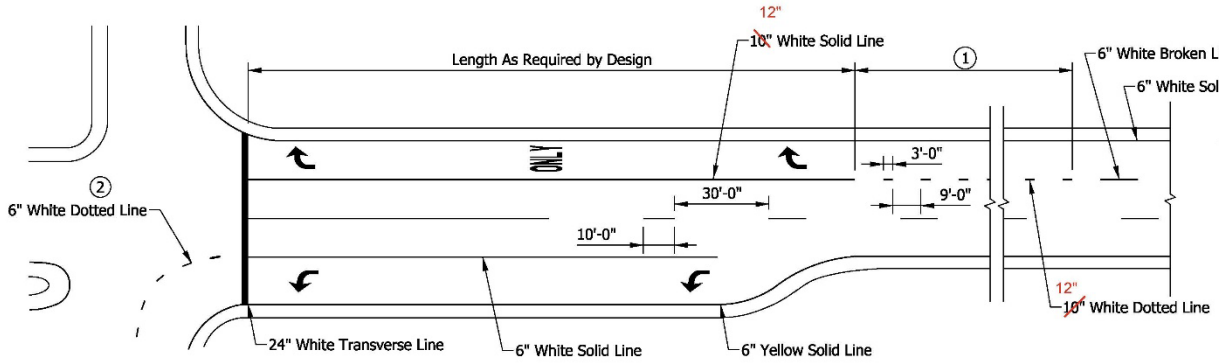
E 808-DLIM-06 Lane Drops at Intersections (shown markups)

NOTES:

1. The dotted line shall be extended to the lesser of 300 ft or the nearest intersection
2. 6 in. white dotted lines shall be required at dual turn lanes.



LANE DROP ON A MULTILANE UNDIVIDED HIGHWAY



LANE DROP ON A MULTILANE DIVIDED HIGHWAY

INDIANA DEPARTMENT OF TRANSPORTATION

LANE DROPS AT INTERSECTIONS

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-06

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — DATE 05/04/23

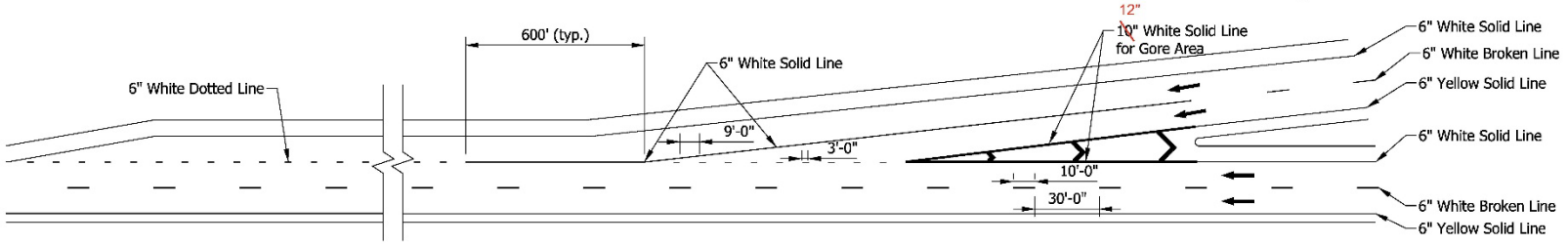
CHIEF ENGINEER — DATE 05/08/2023

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

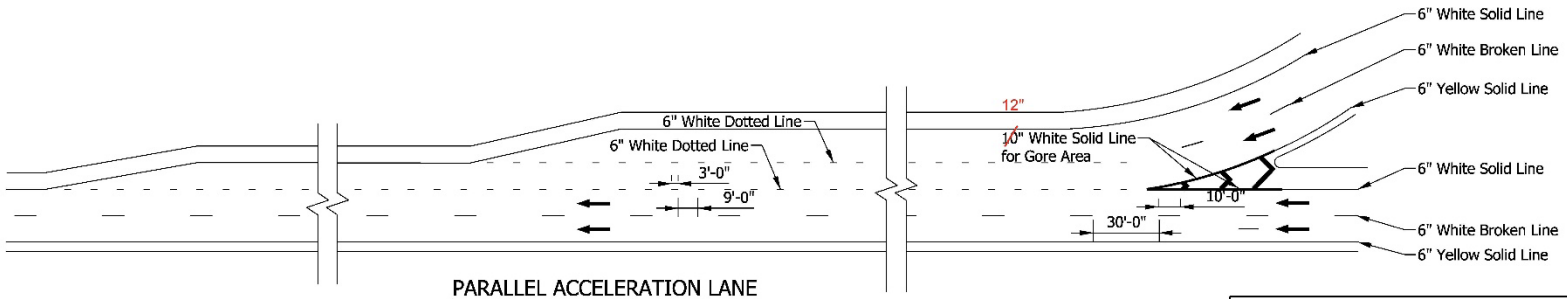
E 808-DLIM-07 Dotted Lines for Freeway Double Acceleration Lanes (shown markups)

NOTE:

1. The 10 in. white solid lines for gore areas shall connect at the theoretical gore.



TAPERED ACCELERATION LANE FOR MAINTENANCE AND RESURFACE CONTRACTS ONLY



PARALLEL ACCELERATION LANE

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINES FOR FREEWAY
DOUBLE ACCELERATION LANES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-07

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

05/04/23
DESIGN STANDARDS ENGINEER DATE

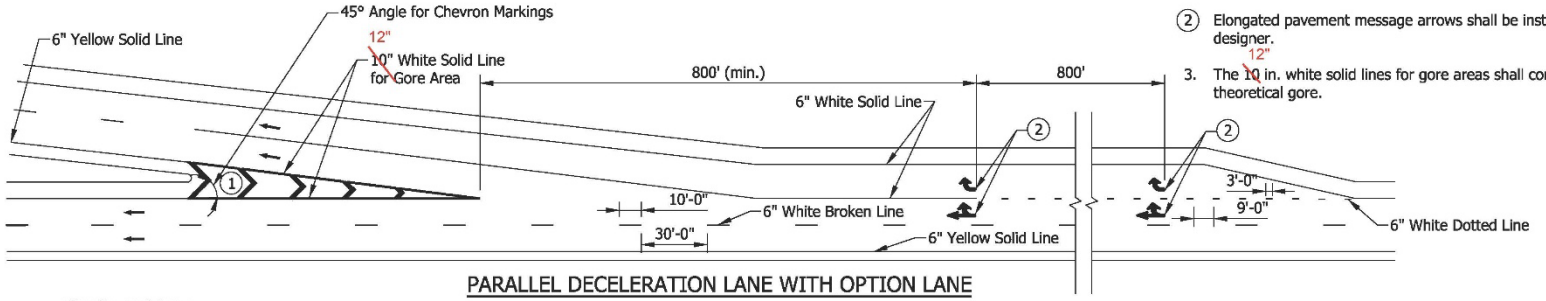
05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

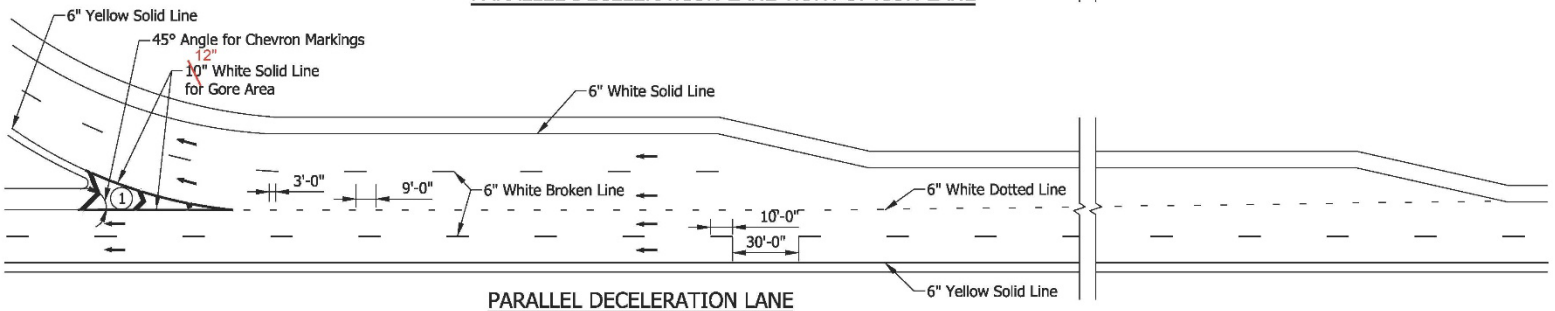
E 808-DLIM-08 Dotted Lines for Freeway Double Deceleration Lanes (shown markups)

NOTES:

1. White chevron markings shall be 24 in. wide and spaced 40 ft apart.
2. Elongated pavement message arrows shall be installed, if required by designer.
3. The 12" 10 in. white solid lines for gore areas shall connect at the theoretical gore.



PARALLEL DECELERATION LANE WITH OPTION LANE



PARALLEL DECELERATION LANE

COMBO ARROW TURN ARROW

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINES FOR FREEWAY
DOUBLE DECELERATION LANES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-08

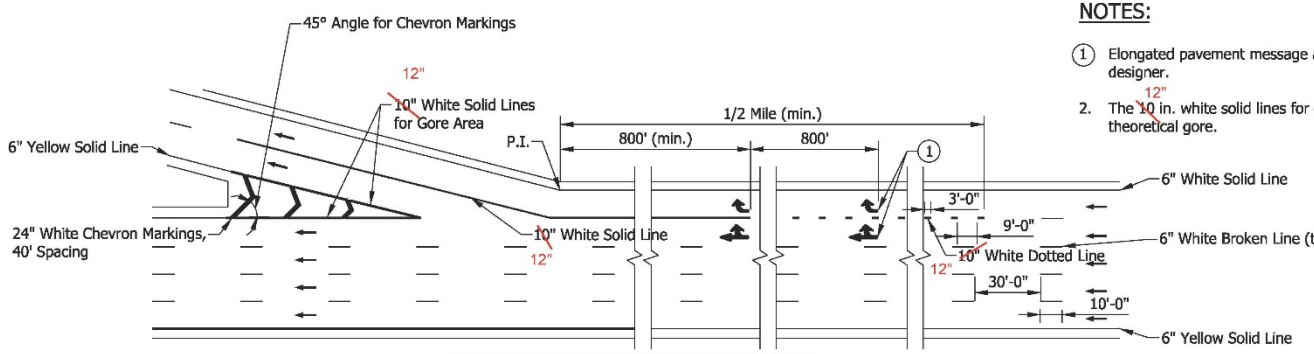
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

05/04/23
DESIGN STANDARDS ENGINEER DATE

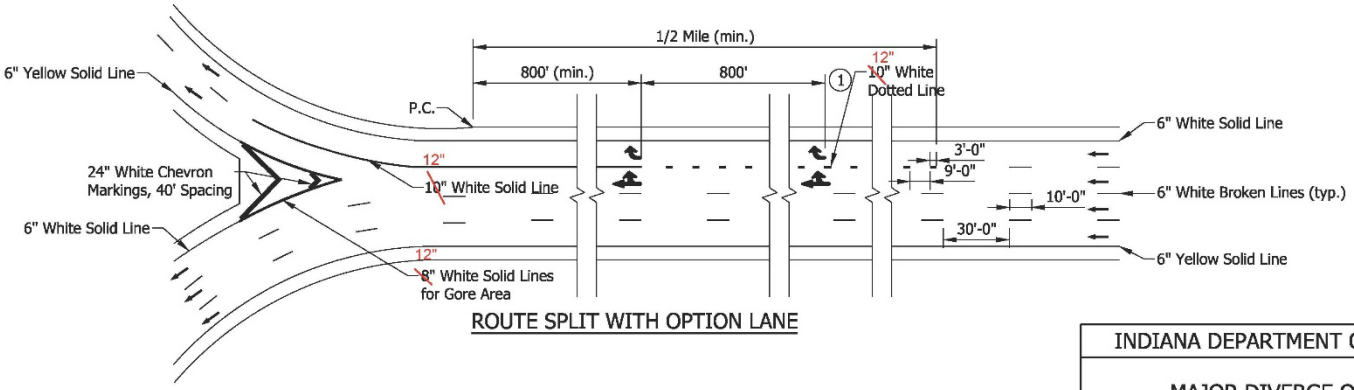
05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-09 Major Diverge or Route Split with Option Lane (shown markups)



MAJOR DIVERGE WITH OPTION LANE



ROUTE SPLIT WITH OPTION LANE

COMBO ARROW TURN ARROW

NOTES:

1. Elongated pavement message arrows shall be installed, if required by designer.
2. The 12" in. white solid lines for gore areas shall connect at the theoretical gore.

INDIANA DEPARTMENT OF TRANSPORTATION

MAJOR DIVERGE OR ROUTE SPLIT WITH OPTION LANE

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-09

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER — DATE 05/04/23

CHIEF ENGINEER — DATE 05/12/2023

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-01 Dotted Line Markings, Index and General Notes (proposed draft)

INDEX	
SHEET NO.	SUBJECT
1	Dotted Line Markings, Index and General Notes
2	Dotted Lines for Freeway Acceleration Lanes
3	Dotted Lines for Freeway Deceleration Lanes
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5	Freeway Lane Drops and Route Splits
6	Lane Drops at Intersections
7	Dotted Lines for Freeway Double Acceleration Lanes
8	Dotted Lines for Freeway Double Deceleration Lanes
9	Major Diverge or Route Split with Option Lane

GENERAL NOTES:

1. The dotted line details for freeways shall also apply to collector distributor roads that are part of a freeway.
2. The dotted line details shall also apply to interchanges on the state highway system.

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINE MARKINGS
INDEX AND GENERAL NOTES

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-01

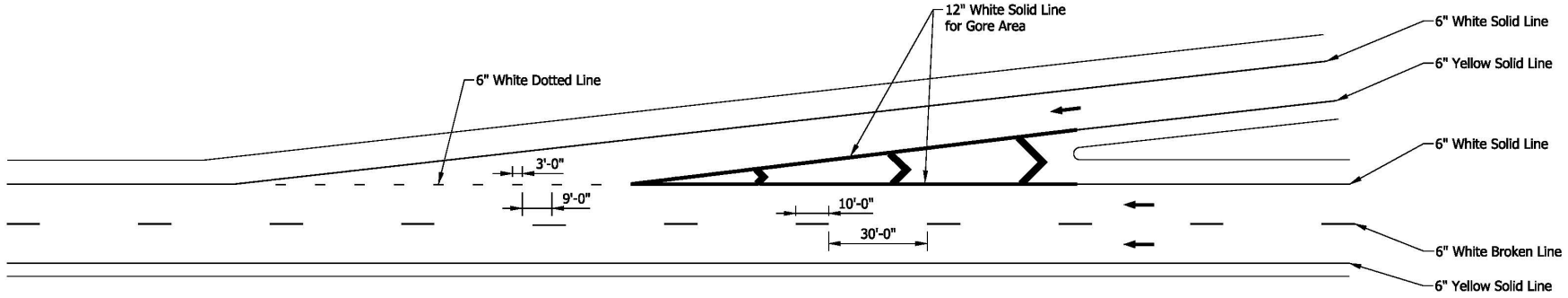
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

David H Boruff 05/04/23
DESIGN STANDARDS ENGINEER DATE

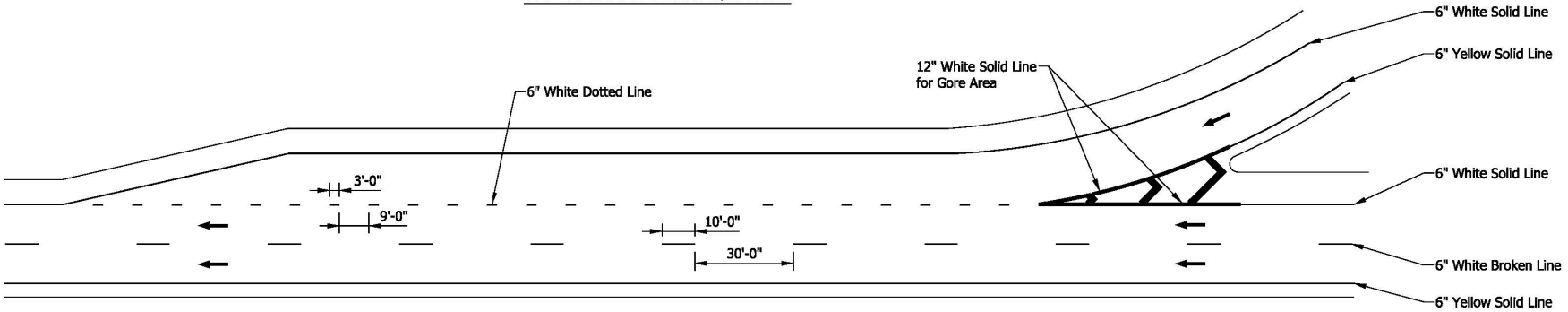
05/08/2023
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-02 Dotted Lines for Freeway Acceleration Lanes (proposed draft)



TAPERED ACCELERATION LANE



PARALLEL ACCELERATION LANE

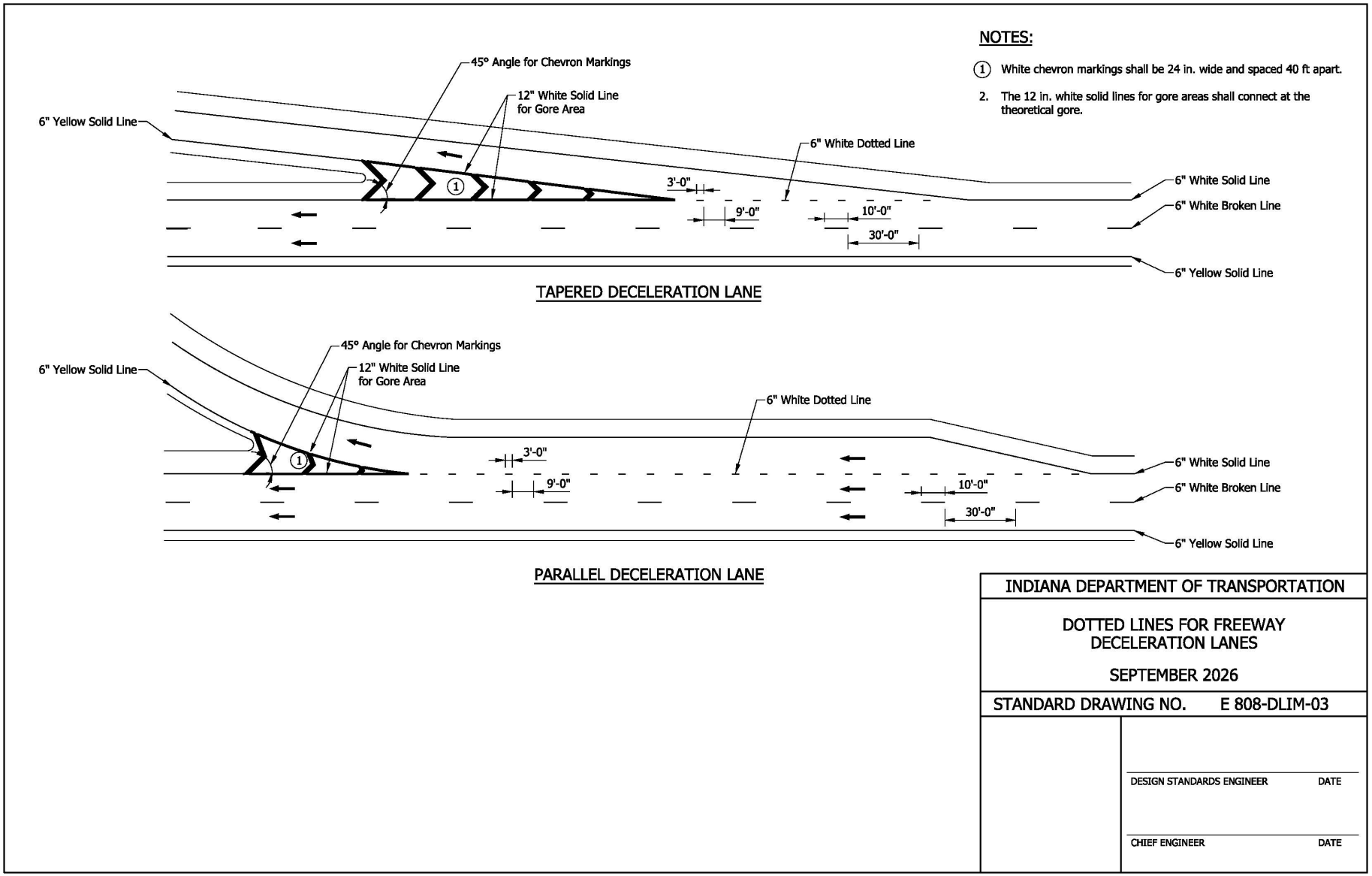
NOTE:

1. The 12 in. white solid lines for gore areas shall connect at the theoretical gore.

INDIANA DEPARTMENT OF TRANSPORTATION	
DOTTED LINES FOR FREEWAY ACCELERATION LANES SEPTEMBER 2026	
STANDARD DRAWING NO. E 808-DLIM-02	
	DESIGN STANDARDS ENGINEER DATE CHIEF ENGINEER DATE

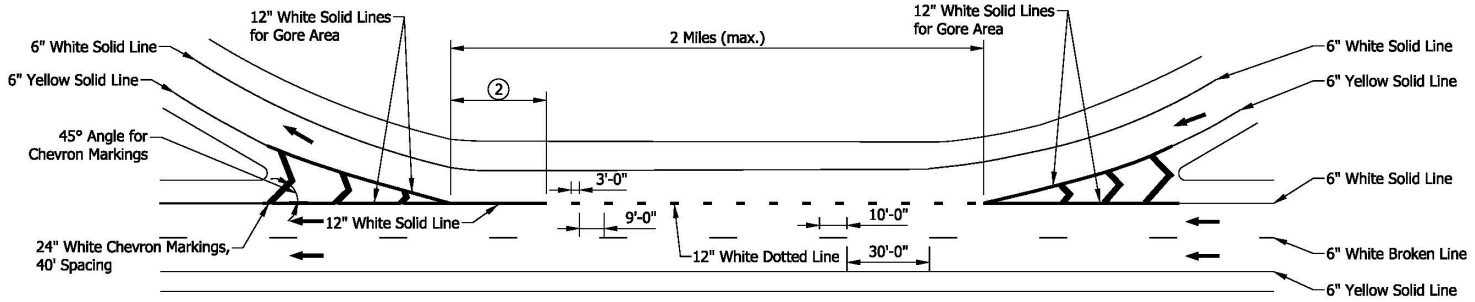
REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-03 Dotted Lines for Freeway Deceleration Lanes (proposed draft)

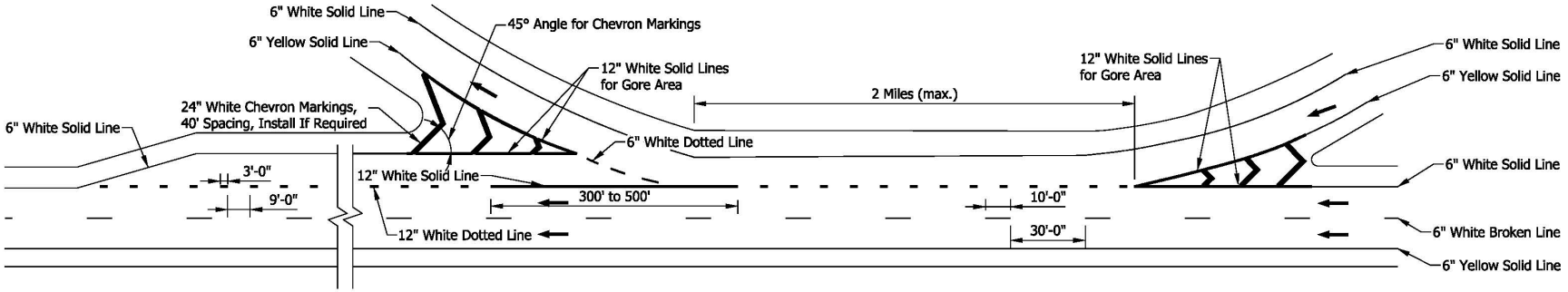


REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-04 Freeway Short Auxiliary Lanes and Extended Auxiliary Lanes (proposed draft)



AUXILIARY LANE LESS THAN 2 MILES



EXTENDED AUXILIARY LANE

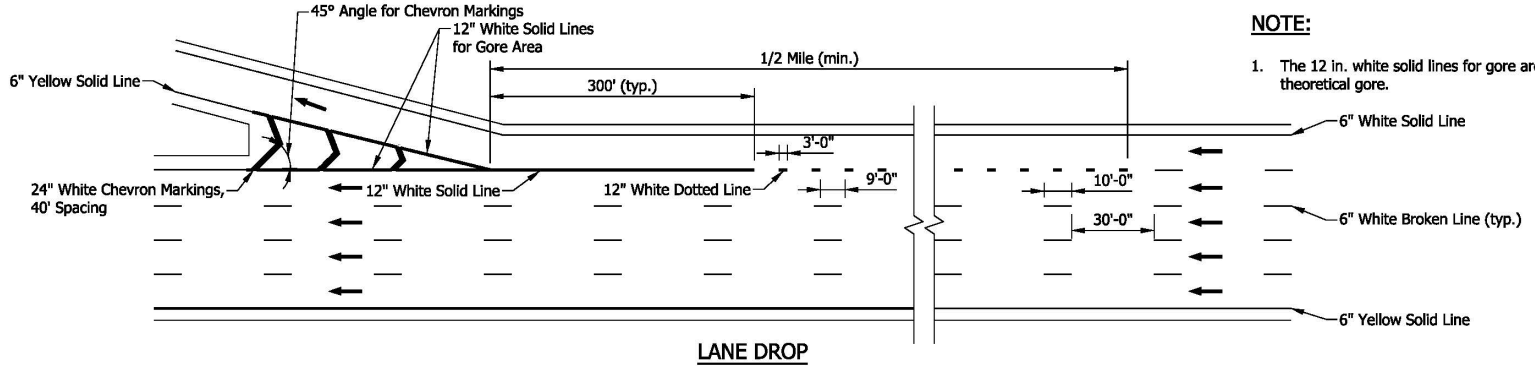
NOTES:

1. The 12 in. white solid lines for gore areas shall connect at the theoretical gore.

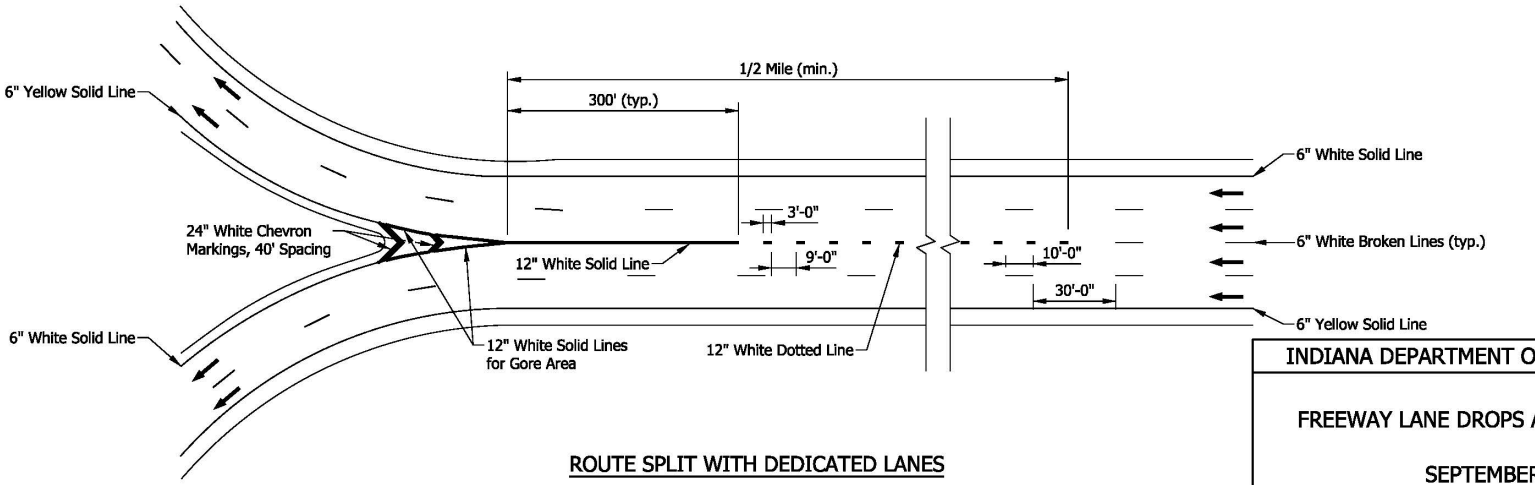
② This dimension is typically:
100 ft if the auxiliary lane is less than a half mile
300 ft if the auxiliary lane is between a half mile and a mile
600 ft if the auxiliary lane is greater than a mile but less than two miles.

INDIANA DEPARTMENT OF TRANSPORTATION	
FREEWAY SHORT AUXILIARY LANES AND EXTENDED AUXILIARY LANES SEPTEMBER 2026	
STANDARD DRAWING NO. E 808-DLIM-04	
	DESIGN STANDARDS ENGINEER DATE CHIEF ENGINEER DATE

E 808-DLIM-05 Freeway Lane Drops and Route Splits (proposed draft)



LANE DROP



ROUTE SPLIT WITH DEDICATED LANES

NOTE:

1. The 12 in. white solid lines for gore areas shall connect at the theoretical gore.

INDIANA DEPARTMENT OF TRANSPORTATION

FREEWAY LANE DROPS AND ROUTE SPLITS

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-05

DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER DATE

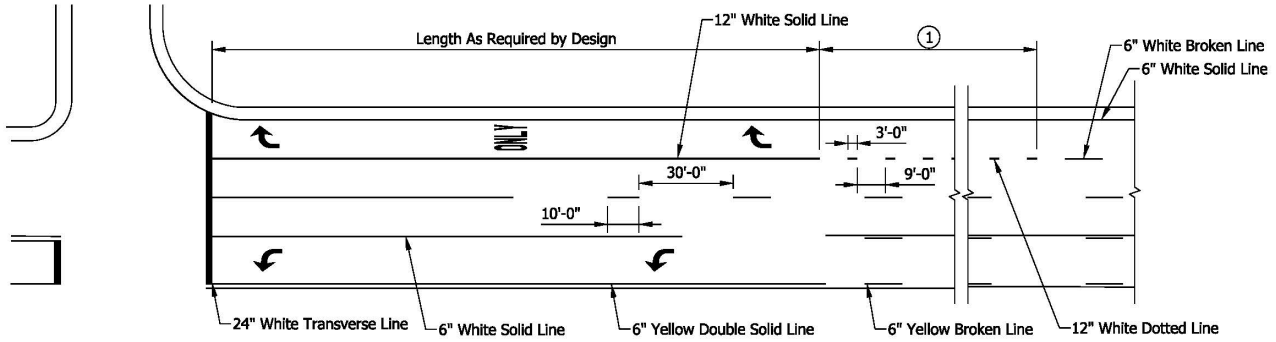
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

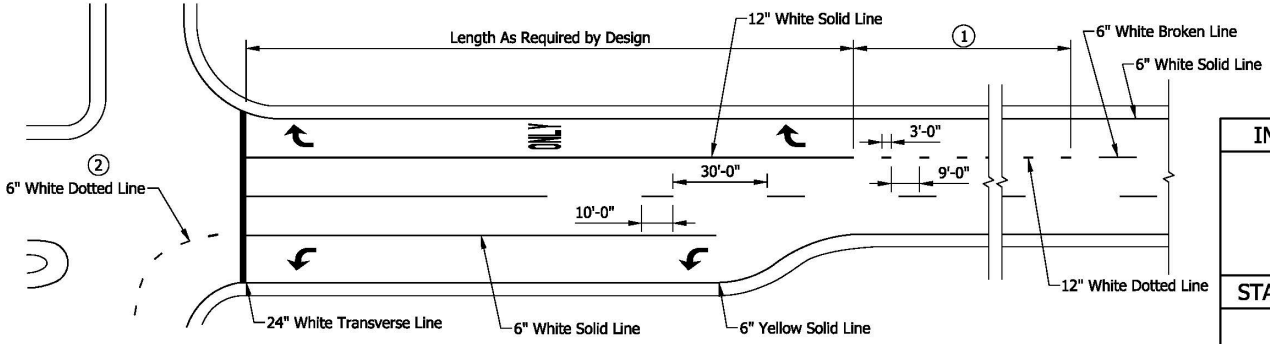
E 808-DLIM-06 Lane Drops at Intersections (proposed draft)

NOTES:

1. The dotted line shall be extended to the lesser of 300 ft or the nearest intersection
2. 6 in. white dotted lines shall be required at dual turn lanes.



LANE DROP ON A MULTILANE UNDIVIDED HIGHWAY



LANE DROP ON A MULTILANE DIVIDED HIGHWAY

INDIANA DEPARTMENT OF TRANSPORTATION

LANE DROPS AT INTERSECTIONS

SEPTEMBER 2023

STANDARD DRAWING NO. E 808-DLIM-06

DESIGN STANDARDS ENGINEER DATE

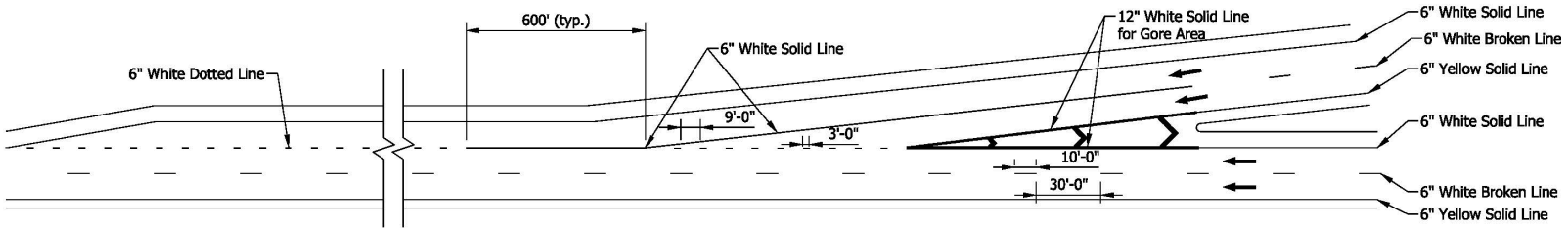
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

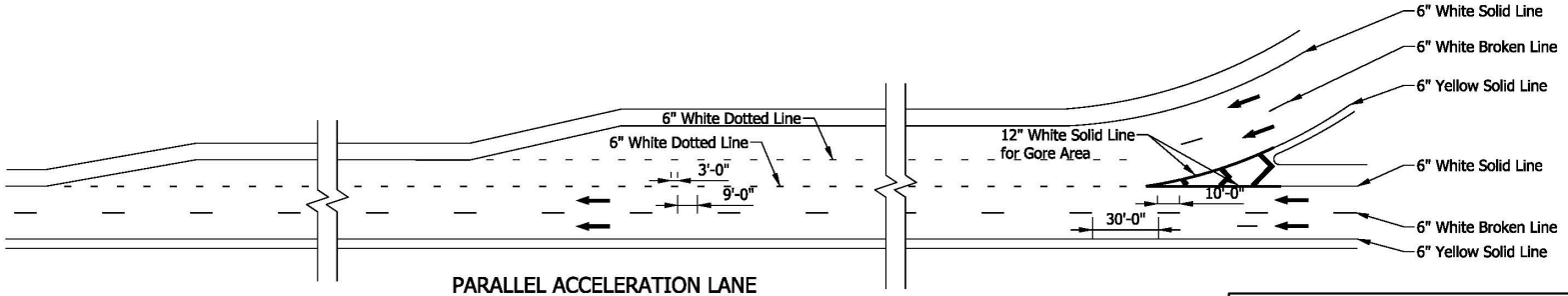
E 808-DLIM-07 Dotted Lines for Freeway Double Acceleration Lanes (proposed draft)

NOTE:

1. The 12 in. white solid lines for gore areas shall connect at the theoretical gore.



TAPERED ACCELERATION LANE FOR MAINTENANCE AND RESURFACE CONTRACTS ONLY



PARALLEL ACCELERATION LANE

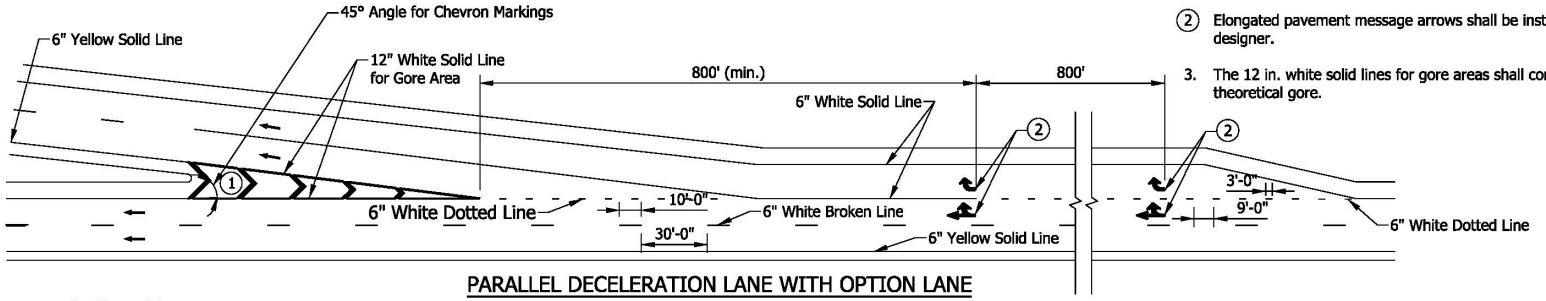
INDIANA DEPARTMENT OF TRANSPORTATION	
DOTTED LINES FOR FREEWAY DOUBLE ACCELERATION LANES SEPTEMBER 2026	
STANDARD DRAWING NO. E 808-DLIM-07	
	DESIGN STANDARDS ENGINEER DATE CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

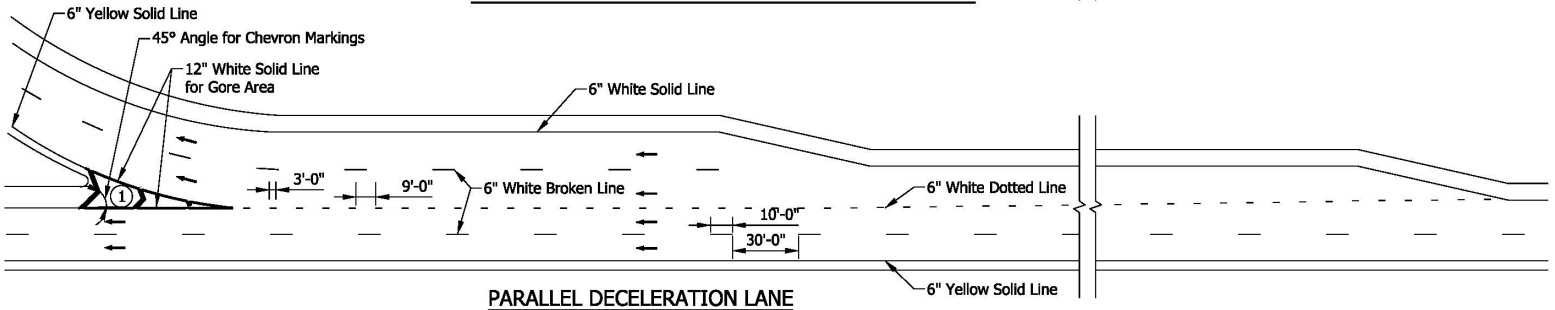
E 808-DLIM-08 Dotted Lines for Freeway Double Deceleration Lanes (proposed draft)

NOTES:

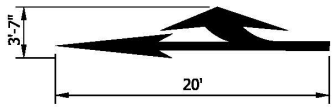
1. White chevron markings shall be 24 in. wide and spaced 40 ft apart.
2. Elongated pavement message arrows shall be installed, if required by designer.
3. The 12 in. white solid lines for gore areas shall connect at the theoretical gore.



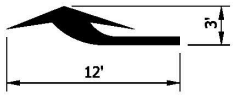
PARALLEL DECELERATION LANE WITH OPTION LANE



PARALLEL DECELERATION LANE



COMBO ARROW



TURN ARROW

INDIANA DEPARTMENT OF TRANSPORTATION

DOTTED LINES FOR FREEWAY
DOUBLE DECELERATION LANES

SEPTEMBER 2026

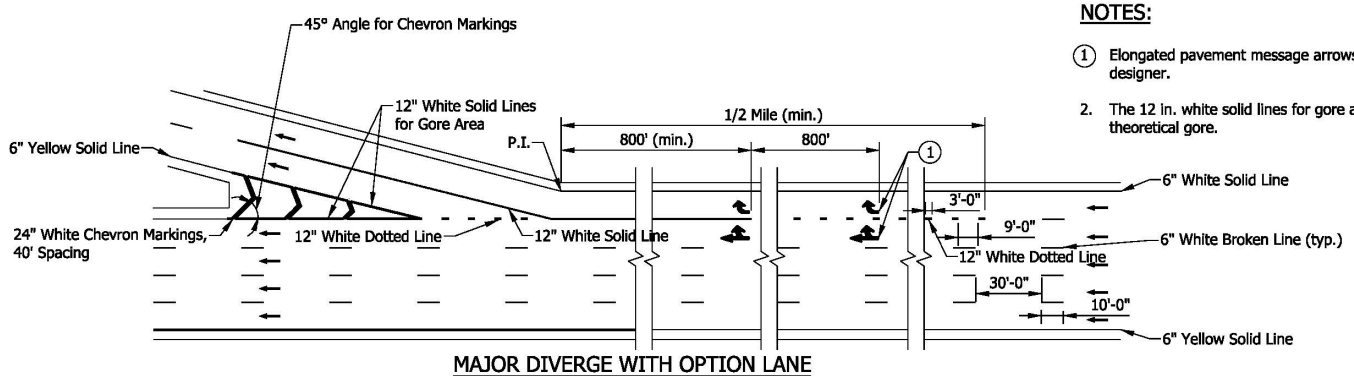
STANDARD DRAWING NO. E 808-DLIM-08

DESIGN STANDARDS ENGINEER DATE

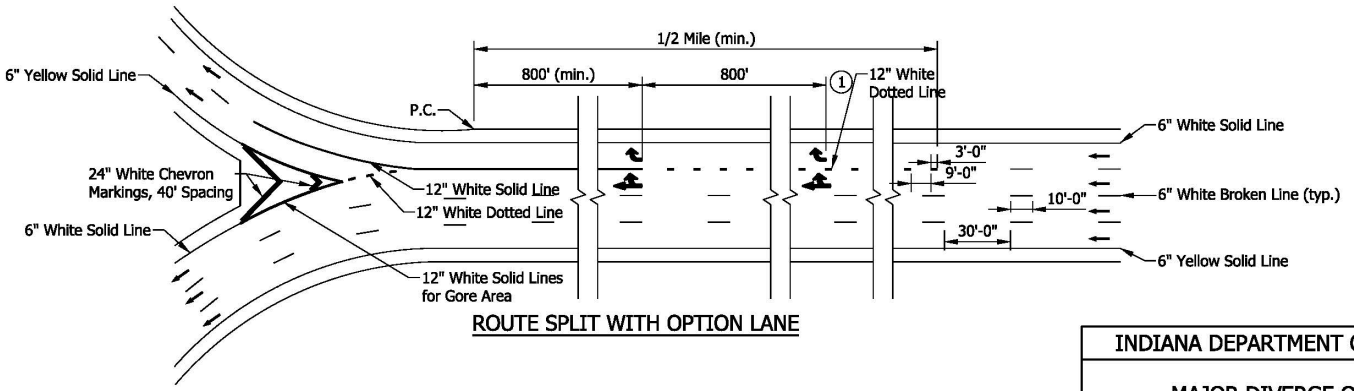
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-DLIM-09 Major Diverge or Route Split with Option Lane (proposed draft)



MAJOR DIVERGE WITH OPTION LANE



ROUTE SPLIT WITH OPTION LANE

COMBO ARROW TURN ARROW

NOTES:

1. Elongated pavement message arrows shall be installed, if required by designer.
2. The 12 in. white solid lines for gore areas shall connect at the theoretical gore.

INDIANA DEPARTMENT OF TRANSPORTATION

MAJOR DIVERGE OR ROUTE SPLIT WITH OPTION LANE

SEPTEMBER 2026

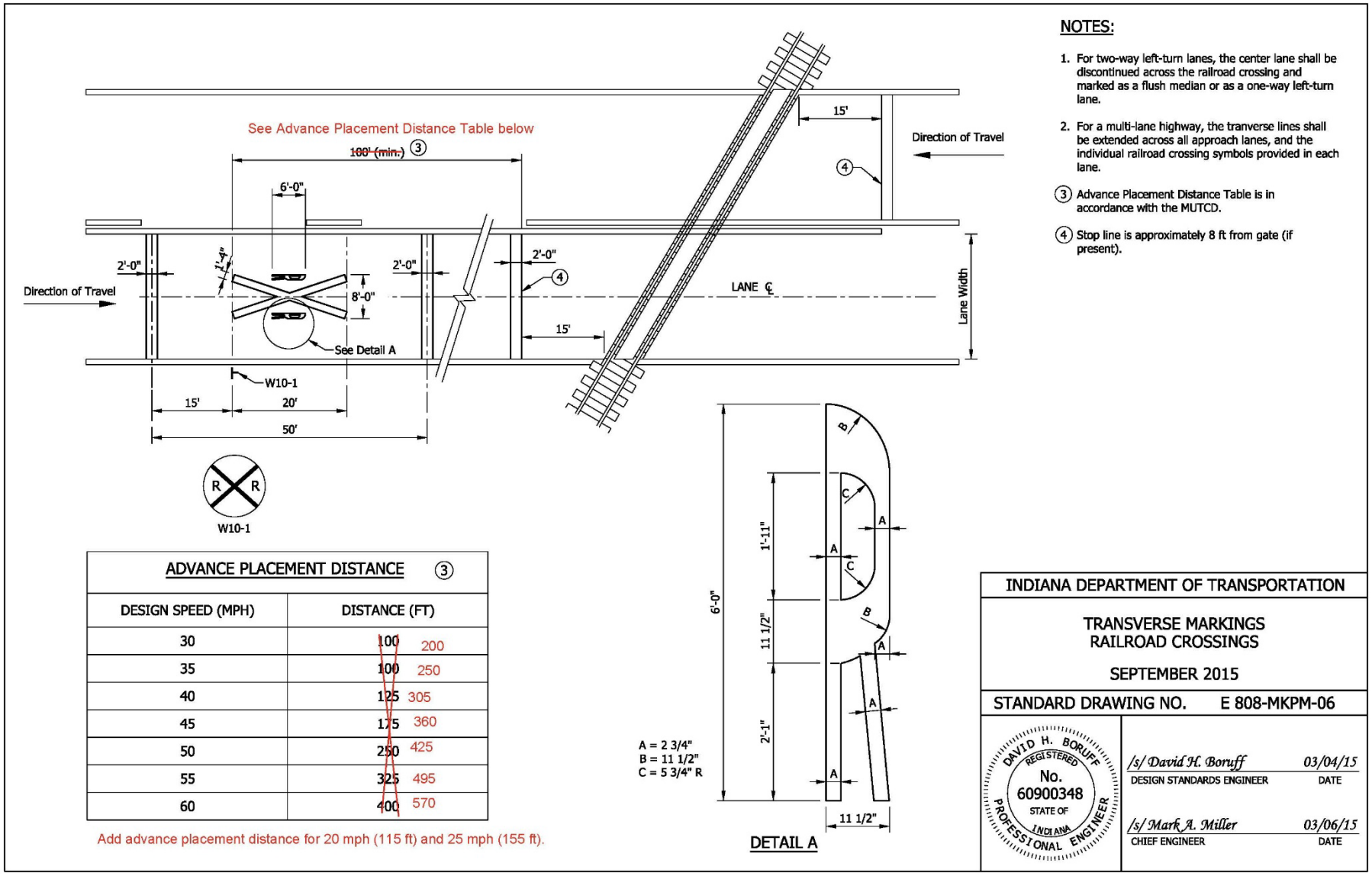
STANDARD DRAWING NO. E 808-DLIM-09

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-MKPM-06 Transverse Markings Railroad Crossings (shown markups)



NOTES:

1. For two-way left-turn lanes, the center lane shall be discontinued across the railroad crossing and marked as a flush median or as a one-way left-turn lane.
2. For a multi-lane highway, the tranverse lines shall be extended across all approach lanes, and the individual railroad crossing symbols provided in each lane.

③ Advance Placement Distance Table is in accordance with the MUTCD.

④ Stop line is approximately 8 ft from gate (if present).

ADVANCE PLACEMENT DISTANCE ③

DESIGN SPEED (MPH)	DISTANCE (FT)
30	~~100~~ 200
35	~~100~~ 250
40	~~125~~ 305
45	~~175~~ 360
50	~~250~~ 425
55	~~325~~ 495
60	~~400~~ 570

Add advance placement distance for 20 mph (115 ft) and 25 mph (155 ft).

INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS
RAILROAD CROSSINGS

SEPTEMBER 2015

STANDARD DRAWING NO. E 808-MKPM-06

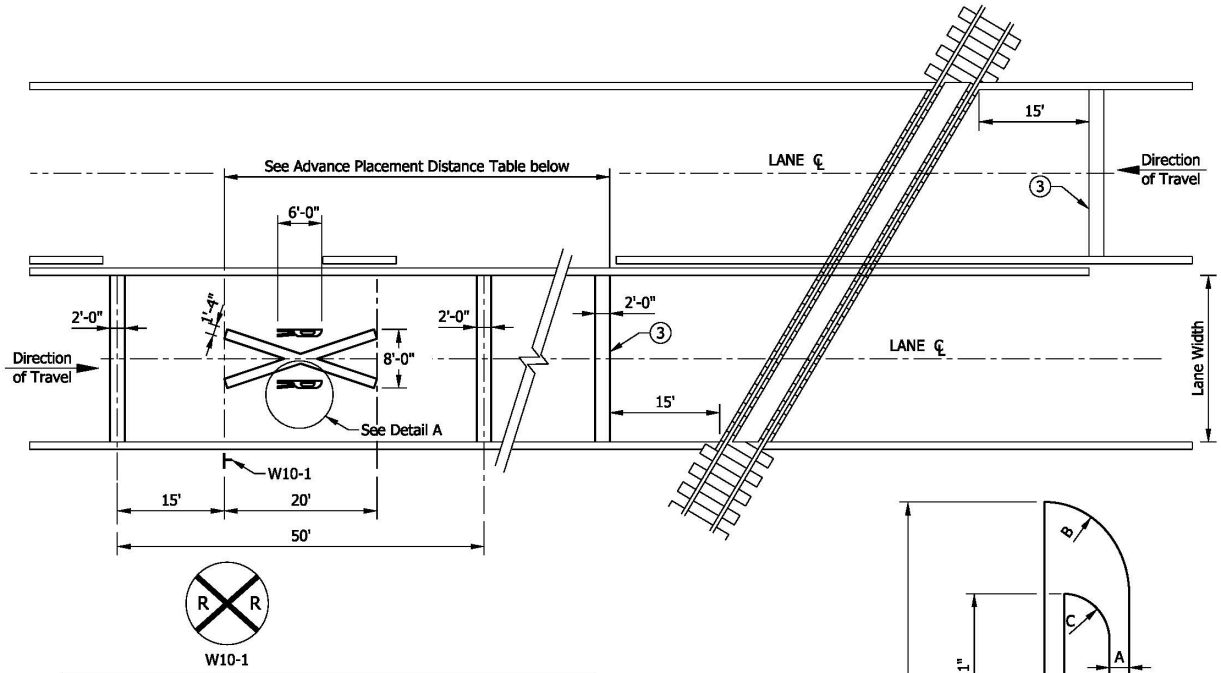
DAVID H. BORUFF REGISTERED No. 60900348 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ David H. Boruff 03/04/15
DESIGN STANDARDS ENGINEER DATE

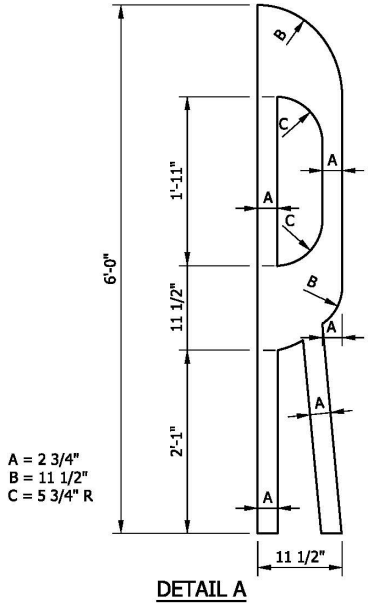
/s/ Mark A. Miller 03/06/15
CHIEF ENGINEER DATE

REVISION TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS

E 808-MKPM-06 Transverse Markings Railroad Crossings (proposed draft)



ADVANCE PLACEMENT DISTANCE TABLE	
DESIGN SPEED (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570



A = 2 3/4"
B = 11 1/2"
C = 5 3/4" R

DETAIL A

NOTES:

1. For two-way left-turn lanes, the center lane shall be discontinued across the railroad crossing and marked as a flush median or as a one-way left-turn lane.
2. For a multi-lane highway, the tranverse lines shall be extended across all approach lanes, and the individual railroad crossing symbols provided in each lane.

(3) Stop line shall be placed 8 ft in advance of the crossing gate (if present), but no closer than 15 ft in advance of the nearest rail.

INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS
RAILROAD CROSSINGS

SEPTEMBER 2026

STANDARD DRAWING NO. E 808-MKPM-06

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE

COMMENTS AND ACTION

808.04(b) Lane Lines
E 808-DLIM series
E 808-MKPM-06 Transverse Markings Railroad Crossings

DISCUSSION:
This item was introduced and presented by Mr. Bruno, sitting in as proxy for Mr. Boruff, who explained that Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. The 808-DLIM Standard Drawing series needs various minor updates for the current edition of the MUTCD and the table in Standard Drawing 808-MKPM-06 needs to be updated for the current edition of the MUTCD.

Mr. Bruno proposed to update this Standard Drawing series for the current edition of MUTCD. Further detailed explanations were provided by Mr. Bruno.

Mr. Koch stated that it seems Note #3 on sheet E 808-MKPM-06 could be problematic. I believe the Advanced Placement Table was created by INDOT based on the MUTCD. Yet changes could happen that go unnoticed. Should we remain silent and strike note #3 as we do not otherwise note each drawing with 'in accordance with the MUTCD'?
Mr. Koch clarified that he is an engineer, not a lawyer.
Mr. Bruno responded that yes, note 3 is problematic and I have no issue with striking note 3 from 808-MKPM-06 as part of this update.

There were no further discussion and this item passed as revised. Ms. Russell said she'll check to see if any pay items will be affected by this revision. The effective dates will be discussed at the next Traffic Standards Subcommittee meeting.

Motion: Mr. Bruno
Second: Mr. Orton
Ayes: 10
Nays: 0
FHWA Approval: YES

Action:

___ Passed as Submitted
_X_ Passed as Revised
___ Withdrawn

2026 Standard Specifications Sections:
808, pp. 961 - 979.

Recurring Special Provisions or Plan Details:
NONE

Standard Drawing affected:
E 808-DLIM series and E 808-MKPM-06

Design Manual Chapter:
502

GIFE Section:
NONE

_X_ 2028 Standard Specifications
_X_ Revise Pay Items List
___ Notification to Designers if change is not addressed by RSP

_X_ Create RSP (No. 808-T-248)
Effective: September 1, 2026

___ Revise RSP (No.___)
Effective:

_X_ Standard Drawings E 808-DLIM series and E 808-MKPM-06
Effective: September 1, 2026

___ Create RPD (No. ___)
Effective:

_X_ GIFE Update
___ Frequency Manual Update
___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. RSP 801-R-542 for worksite added penalty signs needs various updates for the current edition of the MUTCD.

PROPOSED SOLUTION: Update RSP 801-R-542 to include current MUTCD content on the worksite added penalty signs.

APPLICABLE STANDARD SPECIFICATIONS: N/A

APPLICABLE STANDARD DRAWING: 801-TCSN series

APPLICABLE DESIGN MANUAL CHAPTER: 503

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: RSP 801-R-542 and RPD 801-R-247d

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Reviewed by IMUTCD Steering Committee.

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: N/A

IMPACT ANALYSIS (attach report): Yes

Submitted By: Joe Bruno on behalf of Dave Boruff

Title: Sr. Traffic Engineer

Division: Traffic Engineering Division

E-mail: jbruno@indot.in.gov

Date: 3/20/2026

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 Qualified Products List (QPL)? No
Will this proposal improve:

- Construction costs? No
- Construction time? Yes
- Customer satisfaction? No
- Congestion/travel time? No
- Ride quality? No

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

- For motorists? Yes
- For construction workers? No

Will this proposal improve quality for:

- Construction procedures/processes? Yes
- Asset preservation? No
- Design process? Yes

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? Yes

Is this proposal needed for compliance with:

- Federal or State regulations? Yes
- 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

(Note: Proposed changes shown highlighted gray)

801-R-542 WORKSITE ADDED PENALTY SIGNS

(Revised 05-01-25)

Worksite Added Penalty signs shall be placed as shown on the plans or as directed by the Engineer. The signs shall typically be placed in advance of the first Road ~~Construction~~*Work* 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 Certified Worksite Traffic Supervisor.

The ~~XW~~*R*2-*Y*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 ~~XW~~*R*2-*Y*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 ~~XW~~*R*2-*Y*6-A, Worksite Added Penalty sign, 78 in. by 42 in.

The ~~XW~~*R*2-*Y*6a-~~B~~*A* Speeding*, 48 in. by 24 in.,* and ~~XW~~*R*2-*Y*6b-~~B~~*A* Reckless Driving signs, 48 in. by ~~48~~*30* 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 ~~XW~~*R*2-*Y*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 ~~XW~~*R*2-*Y*6a~~-A~~ Speeding*, 36 in. by 18 in.,* and ~~XW~~*R*2-*Y*6b~~-A~~ Reckless Driving signs, 36 in. by ~~36~~*24* 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 ~~XW~~*R*2-*Y*6a-A *and R2-Y6b-A signs*~~ Worksite Added Penalty sign, 78 in. by 42 in~~.

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

E 801-T-247d RPD 1 of 8

INDEX	
SHEET NO.	SUBJECT
1	Index and General Notes
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 Post Installation
8	Temporary Panel Sign Post Selection and Connection Details

This sheet replaces Standard Drawing E 801-TCSN-01

GENERAL NOTES:

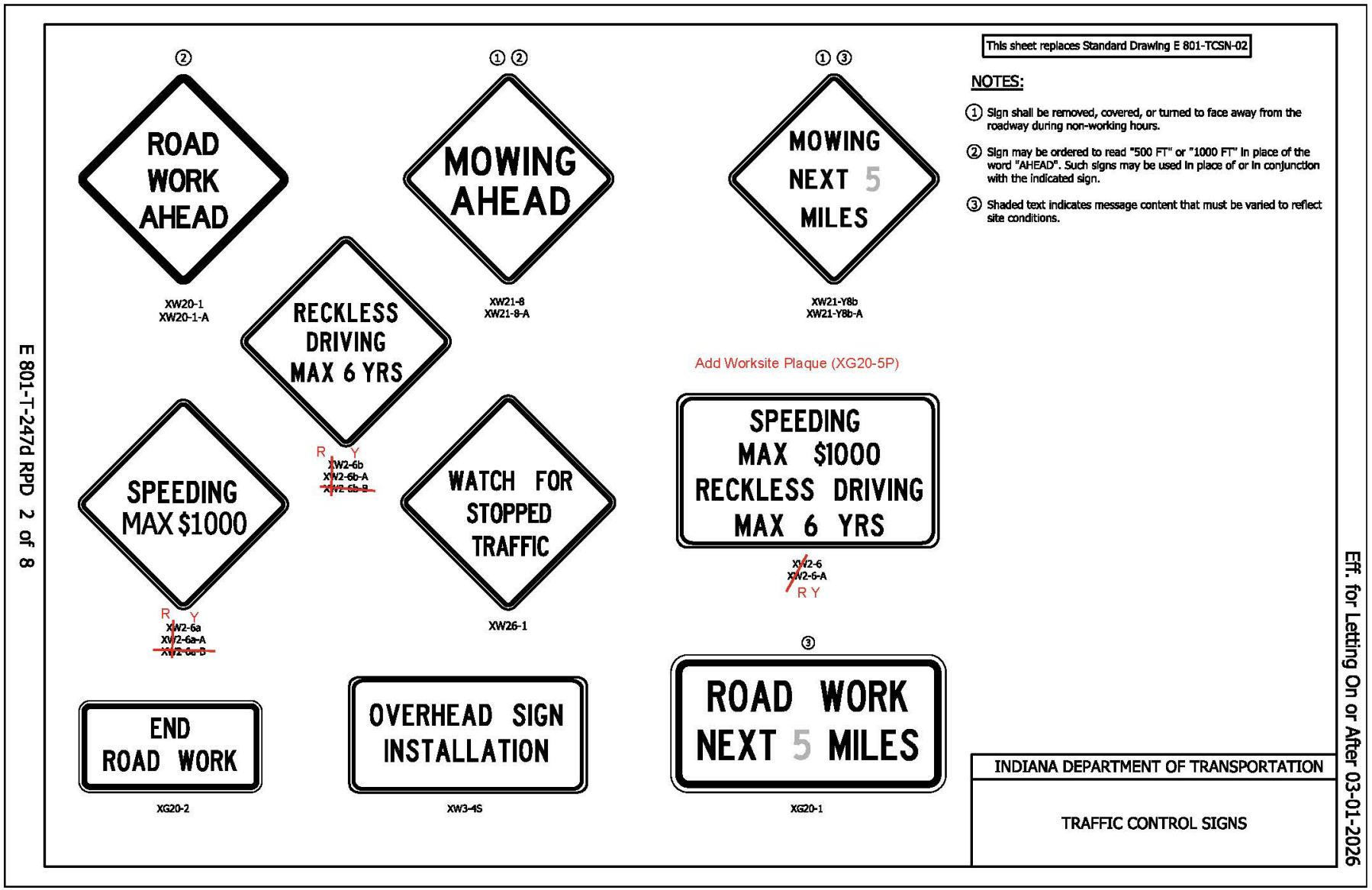
1. The minimum vertical and horizontal clearances for construction signs shall be as shown on Standard Drawing E 801-TCDV-06.
2. See Standard Drawing E 801-TCDV-09 for U-Channel Steel Post Splice Detail.

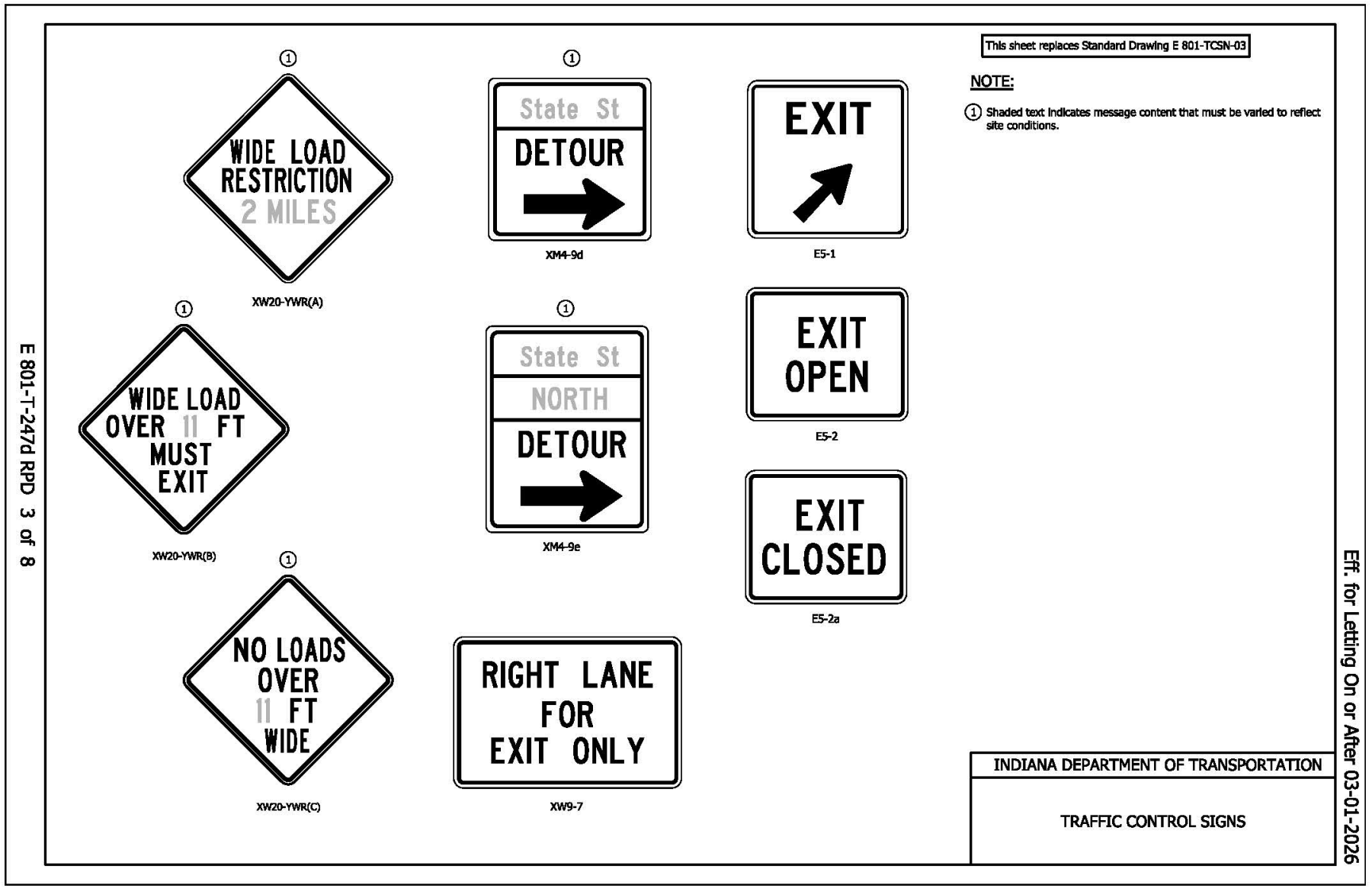
INDIANA DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

Eff. for Letting On or After 03-01-2026

801-T-247d TRAFFIC CONTROL SIGNS (shown markups)




This sheet replaces Standard Drawing E 801-TCSN-03
NOTE:
1 Shaded text indicates message content that must be varied to reflect site conditions.
WIDE LOAD RESTRICTION 2 MILES
XW20-YWR(A)
State St
DETOUR
XM4-9d
EXIT
E5-1
WIDE LOAD OVER 11 FT MUST EXIT
XW20-YWR(B)
State St
NORTH
DETOUR
XM4-9e
EXIT OPEN
E5-2
EXIT CLOSED
E5-2a
NO LOADS OVER 11 FT WIDE
XW20-YWR(C)
RIGHT LANE FOR EXIT ONLY
XW9-7
INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL SIGNS
E 801-T-247d RPD 3 of 8
Eff. for Letting On or After 03-01-2026

801-T-247d TRAFFIC CONTROL SIGNS (shown markups)

E 801-T-247d RPD 4 of 8

This sheet replaces Standard Drawing E 801-TCSN-04

SIGN NUMBER	IMUTCD CODE	SIGN MESSAGE	POST DESIGN TYPE			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)	CORNER RADIUS	NO. OF POSTS	
			4 X 4 WOOD	U-CHANNEL	SQUARE POST		BACKGROUND	COPY									1	2
R2-1	R2-1	Speed Limit ___	*	A	1	24 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R2-1-B	R2-1	Speed Limit		B	2	48 X 60	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R3-2-A (R or L)	R3-2	(Movement Prohibition)	*	A	1	30 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R3-2-C (R or L)	R3-2	(Movement Prohibition)	*	B	2	48 X 48	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R4-1	R4-1	Do Not Pass	*	A	1	24 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R4-1-B	R4-1	Do Not Pass	*	B	2	48 X 60	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R5-1-A	R5-1	Do Not Enter	*	A	1	36 X 36	Red	White	See FHWA publication Standard Highway Signs for fabrication details									X
R5-1-B	R5-1	Do Not Enter	*	B	2	48 X 48	Red	White	See FHWA publication Standard Highway Signs for fabrication details									X
R6-1 (R or L)	R6-1	One Way (Inside White Arrow)	*	A	1	36 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R6-2-A (R or L)	R6-2	One Way (Above White Arrow)	*	A	1	24 X 30	Black & White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-8	R9-8	Pedestrian Crosswalk	*	A	1	36 X 18	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-9	R9-9	Sidewalk Closed	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-10	R9-10	Sidewalk Closed Use Other Side	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-11	R9-11	Sidewalk Closed Ahead Cross Here	*	A	1	24 X 18	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-11a	R9-11a	Sidewalk Closed Cross Here	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-12	R9-12	Bike Lane Closed	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R11-2	R11-2	Road Closed	*	B	1	48 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R11-3	R11-3	Road Closed - Local Traffic Only	*	B	2	60 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R11-4	R11-4	Road Closed to Thru Traffic	*	B	2	60 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R12-1	R12-1	Weight Limit ___ Tons	*	A	1	24 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R12-1-A	R12-1	Weight Limit ___ Tons	-	B	2	36 X 48	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
S4-4	S4-4	When Flashing Plaque	*	-	-	48 X 20	White	Black	See FHWA publication Standard Highway Signs for fabrication details								-	-
XW1-1-A (R or L)	W1-1	(Turn Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-1-B (R or L)	W1-1	(Turn Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-2-A (R or L)	W1-2	(Curve Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-2-B (R or L)	W1-2	(Curve Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-3-A (R or L)	W1-3	(Reverse Turn Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-3-B (R or L)	W1-3	(Reverse Turn Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-4-A (R or L)	W1-4	(Reverse Curve Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-4-B (R or L)	W1-4	(Reverse Curve Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-6	W1-6	(Single Headed Arrow)	*	B	1	48 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-6-A	W1-6	(Single Headed Arrow)	*	B	2	60 X 30	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW2-6	XW2-6	Worksite Added Penalty	*	B	2	60 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C	5 - Series C	5 - Series C		2 1/4		X
XW2-6-A	XW2-6	Worksite Added Penalty	*	B	2	78 X 42	Orange	Black	7/8	5/8	6 - Series D	6 - Series D	6 - Series D	6 - Series D		2 1/4		X
XW2-6a	XW2-6a	Speeding Max $1000	*	A	1	~~30 X 30~~	Orange	Black	3/4	1/2	4 - Series C	4 - Series C				1 7/8	X	
XW2-6a-A	XW2-6a	Speeding Max $1000	*	A	1	36 X 36 18	Orange	Black	7/8	5/8	5 - Series C	5 - Series C				2 1/4		X
XW2-6a-B	XW2-6a	Speeding Max $1000	*	B	2	48 X 48 24	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D				3		X
XW2-6b	XW2-6b	Reckless Driving Max 6 Yrs	*	A	1	~~30 X 30~~	Orange	Black	3/4	1/2	4 - Series C	4 - Series C				1 7/8	X	
XW2-6b-A	XW2-6b	Reckless Driving Max 6 Yrs	*	A	1	36 X 36 24	Orange	Black	7/8	5/8	5 - Series C	5 - Series C				2 1/4		X
XW2-6b-B	XW2-6b	Reckless Driving Max 6 Yrs	*	B	2	48 X 48 30	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D				3		X

R Y R Y *Wood post permitted. White

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. All dimensions are in inches.

3. The minimum depth for wood or steel posts shall be 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS

Eff. for Letting On or After 03-01-2026

This sheet replaces Standard Drawing E 801-TCSN-05

SIGN NUMBER	IMUTCD CODE	SIGN MESSAGE	POST DESIGN TYPE			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	CORNER RADIUS	NO. OF POSTS	
			4 X 4 WOOD	U-CHANNEL	SQUARE POST		BACKGROUND	COPY									1	2
XW3-4S	-	Overhead Sign Installation	*	B	2	60 x 24	Orange	Black	1/2	3/8	6 - Series C	6 - Series C				1 1/2		X
XW3-5-A	W3-5	(Reduced Speed Limit Ahead)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW3-5-B	W3-5	(Reduced Speed Limit Ahead)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW3-5a-A	W3-5	(Reduced Speed Limit Ahead)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW3-5a-B	W3-5	(Reduced Speed Limit Ahead)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW4-2 (R or L)	W4-2	(Lane Ends Merge ___ Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW4-2-A (R or L)	W4-2	(Lane Ends Merge Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW6-2a-A	W6-2	(Divided Highway Ends Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
WX6-2a-B	W6-2	(Divided Highway Ends Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW6-3-B	W6-3	(Two Way Traffic Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-1-A	W8-1	Bump	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-1-B	W8-1	Bump	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-2-A	W8-2	Dip	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-2-B	W8-2	Dip	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-3-A	W8-3	Pavement Ends	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-4-A	W8-4	Soft Shoulder	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-4-B	W8-4	Soft Shoulder	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-6-A	W8-6	Truck Crossing	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-6-B	W8-6	Truck Crossing	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-1-A (R or L)	W9-1	___ Lane Ends	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-1-B (R or L)	W9-1	___ Lane Ends	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-2-B (R or L)	W9-2	Lane Ends Merge ___	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-7	W9-7	Right Lane for Exit Only	6 X 6	-	-	132 X 72	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW12-1-C	W12-1	Double Arrow	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW13-1-A	W13-1	Advisory Speed Plaque	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								-	-
XW20-1-A	W20-1	Road Work Ahead	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-1	W20-1	Road Work Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-2	W20-2	Detour Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-3	W20-3	Road Closed Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-4	W20-4	One Lane Road Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-5 (R, C, or L)	W20-5	_____ Lane Closed Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-7-A	W20-7	Flagger Symbol	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-YWR(A)	-	Wide Load Restriction ___ Miles	*	B	2	48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D	6 - Series D			3		X
XW20-YWR(B)	-	Wide Load Over __ ft Must Exit	*	B	2	48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series C	6 - Series C	6 - Series C		3		X
XW20-YWR(C)	-	No Loads Over ___ ft Wide	*	B	2	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 this word or line shall be reduced by this percentage as shown in the FHWA document, *Standard Highway Signs*.

2. All dimensions are in inches.

3 The minimum depth for wood or steel posts shall be 4 ft.

E 801-T-247d RPD 5 of 8

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS

E 801-T-247d RPD 6 of 8

This sheet replaces Standard Drawing E 801-TCSN-06

SIGN NUMBER	IMUTCD CODE	SIGN MESSAGE	POST DESIGN TYPE			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 ①	PCT. ①	CORNER RADIUS	NO. OF POSTS	
			4 X 4 WOOD	U-CHANNEL	SQUARE POST												1	2
XW21-1-A	W21-1	Workers Symbol	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-2	W21-2	Fresh Oil	*	A	1	30 X 30	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
XW21-2-A	W21-2	Fresh Oil	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-3-A	W21-3	Road Machinery Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-5-A	W21-5	Shoulder Work	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-6-A	W21-6	Survey Crew	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-7	W21-7	Utility Work Ahead	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-7-A	W21-7	Utility Work Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-Y8b	-	Mowing Next X Miles	*	A	1	36 X 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	6 - Series C			2 1/4		X
XW21-Y8b-A	-	Mowing Next X Miles	*	B	2	48 X 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Series C	8 - Series C			3		X
XW21-8	W21-8	Mowing Ahead	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-8-A	W21-8	Mowing Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW26-1	W26-1	Watch for Stopped Traffic	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XG20-1	G20-1	Road Work Next __ Miles	*	B	1	48 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XG20-2	G20-2	End Road Work	*	B	1	48 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XG20-4	G20-4	Pilot Car Follow Me	-	-	-	36 X 18	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								-	-
XG20-5	-	(Route Number or Lane Closed On or After ____)	*	B	2	60 X 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	6 - Series C			2 1/4		X
XG20-5P	XG20-5P	Worksite Plaque	-	-	-	48 X 16	Orange	Black	1/2	3/8	8 - Series C					1 1/2	-	-
XW20-6	-	Lane Restrictions On or After ____	*	B	2	60 X 36	Orange	Black	3/4	1/2	5 - Series C	5 - Series C	4 - Series C			1 7/8		X
XW20-6A	-	Lane Restrictions On or After ____	*	B	2	72 X 36	Orange	Black	7/8	5/8	6 - Series C	6 - Series C	5 - Series C			2 1/4		X
XM4-9 (R or L)	M4-9	Detour (Above Black Arrow)	*	A	1	30 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
XM4-9-B (R or L)	M4-9	Detour (Above Black Arrow)	*	B	2	48 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
M4-Y9	-	Temporary Path with Arrow	*	A	1	24 X 12	Orange	Black	5/8	3/8	3 - Series C	3 - Series C (Arrow is 6x4)		2		1 1/2	X	
XM4-Y9d	-	____ St / Detour Arrow	*	B	2	L X 36	Orange	Black	1/2	3/8	4 - Series C	6 - Series C		1	30	1 1/2	X (L ≤ 42)	X (L > 42)
XM4-Y9e	-	____ St / Direction / Detour Arrow	*	B	2	L X 48	Orange	Black	1/2	3/8	4 - Series C	6 -Series C	6 -Series C	1	30	1 1/2	X (L ≤ 36)	X (L > 36)
XM4-10 (R or L)	M4-10	Detour (Inside Orange Arrow)	*	B	1	48 X 18	Black & Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
E5-2a	-	Exit Closed	*	B	2	48 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
E5-2	-	Exit Open	*	B	2	48 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
E5-1c	E5-Y1c	Exit (Above Arrow)	6x6	B	2	48 X 84	Green	White	1 1/2	0	12 - Series E	18 - Series E	(Arrow is 10-13.4)			6	X	

*Wood post permitted. 60

Add additional worksite plaque sizes XG20-5P-A and XG20-5P-B

NOTES:

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

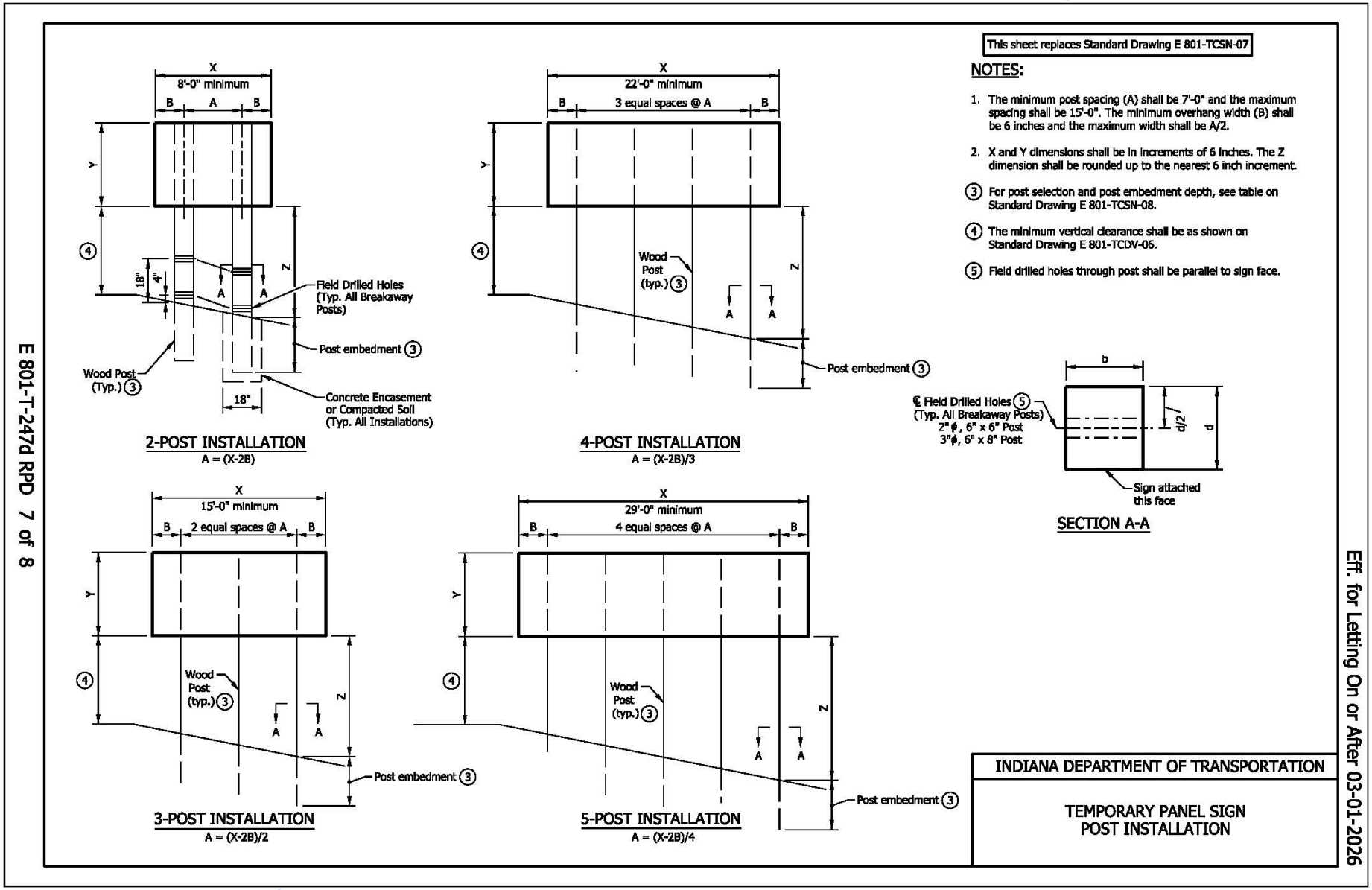
2. All dimensions are in inches.

3. The minimum depth for wood or steel posts shall be 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS

Eff. for Letting On or After 03-01-2026


This sheet replaces Standard Drawing E 801-TCSN-07
NOTES:
1. The minimum post spacing (A) shall be 7'-0" and the maximum spacing shall be 15'-0". The minimum overhang width (B) shall be 6 inches and the maximum width shall be A/2.
2. X and Y dimensions shall be in increments of 6 inches. The Z dimension shall be rounded up to the nearest 6 inch increment.
3 For post selection and post embedment depth, see table on Standard Drawing E 801-TCSN-08.
4 The minimum vertical clearance shall be as shown on Standard Drawing E 801-TCDV-06.
5 Field drilled holes through post shall be parallel to sign face.
2-POST INSTALLATION
A = (X-2B)
4-POST INSTALLATION
A = (X-2B)/3
3-POST INSTALLATION
A = (X-2B)/2
5-POST INSTALLATION
A = (X-2B)/4
Field Drilled Holes (Typ. All Breakaway Posts)
Post embedment 3
Wood Post (Typ.) 3
Concrete Encasement or Compacted Soil (Typ. All Installations)
Wood Post (typ.) 3
℄ Field Drilled Holes 5 (Typ. All Breakaway Posts)
2"ϕ, 6" x 6" Post
3"ϕ, 6" x 8" Post
Sign attached this face
SECTION A-A
INDIANA DEPARTMENT OF TRANSPORTATION
TEMPORARY PANEL SIGN
POST INSTALLATION
E 801-T-247d RPD 7 of 8
Eff. for Letting On or After 03-01-2026

This sheet replaces Standard Drawing E 801-TCSN-08

TEMPORARY PANEL SIGN WOOD POST SELECTION TABLE						
Post Description	Nominal Post Size (b x d)	(X * Y * Z) in ft³ (Maximum) Number of Posts				Post Embedment
		2	3	4	5	ft
Breakaway Post	6" x 6"	363	681	1000	1318	5
	6" x 8"	479	899	1319	1739	6
Non-Breakaway Post ⑤	6" x 6"	389	730	1071	1412	5
	6" x 8"	615	1154	1693	2232	6
	8" x 8"	755	1416	2078	2739	7
	8" x 10"	1007	1941	2848	3754	8
	10" x 10"	1279	2399	3519	4639	9

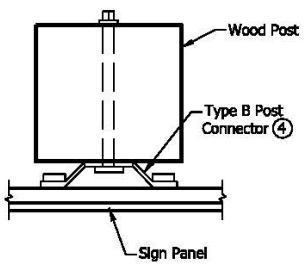
NOTES:

1. Post material shall be dense southern pine select natural.
2. See Standard Drawing E 801-TCSN-07 for X, Y and Z dimensions.
3. The table is valid for dimensions within the following range:
   Sign Width (X) between 8'-0" and 45'-0"
   Sign Height (Y) between 4'-0" and 20'-0"
   Clear Height (Z) between 7'-0" and 15'-0"

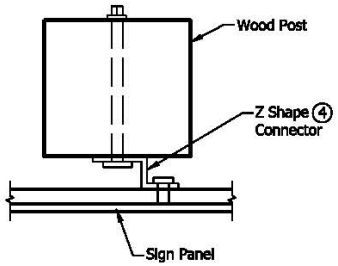
④ The length of the connector shall be equal to the sign height Y.

⑤ Non-breakaway posts shall be placed outside the clearzone or behind barrier or guardrail. The edge of the panel sign adjacent to traffic shall be at least 6 feet from the face of the barrier or guardrail.

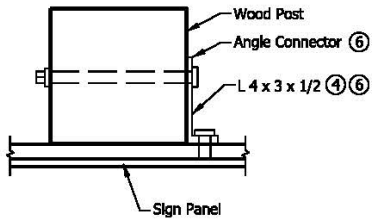
⑥ At exterior posts, the Angle Connector shall be installed on the outside face of the post.



TYPE B POST CONNECTION



Z SHAPE CONNECTION



ANGLE SHAPE CONNECTION

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY PANEL SIGNS
WOOD POST SELECTION TABLE

E 801-T-247d RPD 8 of 8

Eff. for Letting On or After 03-01-2026

E 801-T-247d RPD 1 of 8

INDEX	
SHEET NO.	SUBJECT
1	Index and General Notes
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 Post Installation
8	Temporary Panel Sign Post Selection and Connection Details

This sheet replaces Standard Drawing E 801-TCSN-01

GENERAL NOTES:

1. The minimum vertical and horizontal clearances for construction signs shall be as shown on Standard Drawing E 801-TCDV-06.
2. See Standard Drawing E 801-TCDV-09 for U-Channel Steel Post Splice Detail.

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

Eff. for Letting On or After 12-01-2026

② XW20-1 XW20-1-A

①② XW21-8 XW21-8-A

①③ XW21-Y8b XW21-Y8b-A

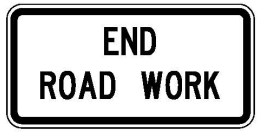
R2-Y6b R2-Y6b-A

XW26-1

XG20-5P XG20-5P-A XG20-5P-B

R2-Y6a R2-Y6a-A

R2-Y6 R2-6-A



XG20-2

XW3-4S

③

XG20-1

This sheet replaces Standard Drawing E 801-TCSN-02

NOTES:

① Sign shall be removed, covered, or turned to face away from the roadway during non-working hours.

② Sign may be ordered to read "500 FT" or "1000 FT" in place of the word "AHEAD". Such signs may be used in place of or in conjunction with the indicated sign.

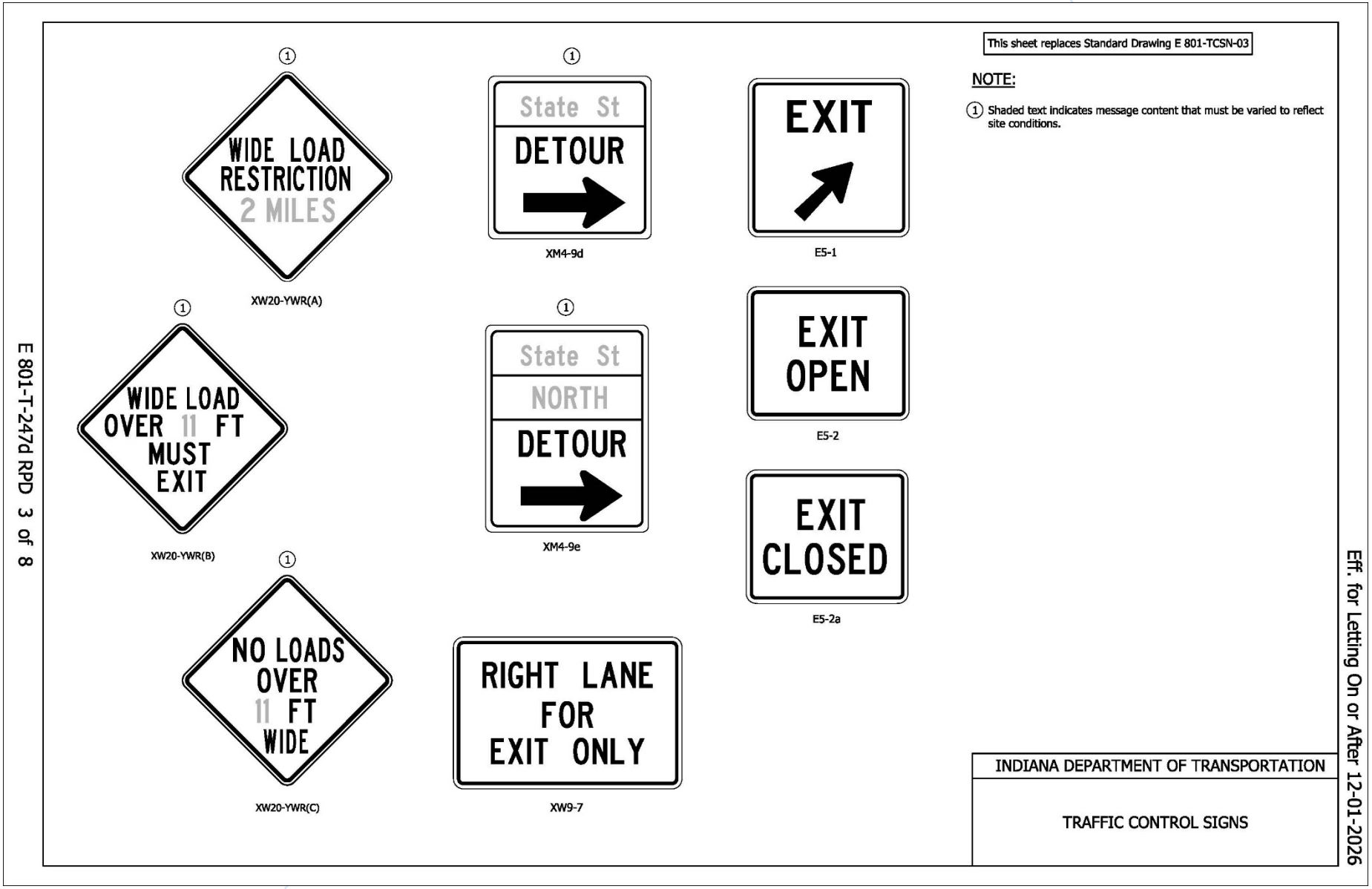
③ Shaded text indicates message content that must be varied to reflect site conditions.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNS

E 801-T-247d RPD 2 of 8

Eff. for Letting On or After 12-01-2026


This sheet replaces Standard Drawing E 801-TCSN-03
NOTE:
1 Shaded text indicates message content that must be varied to reflect site conditions.
WIDE LOAD RESTRICTION 2 MILES
XW20-YWR(A)
State St
DETOUR
XM4-9d
EXIT
E5-1
WIDE LOAD OVER 11 FT MUST EXIT
XW20-YWR(B)
State St
NORTH
DETOUR
XM4-9e
EXIT OPEN
E5-2
EXIT CLOSED
E5-2a
NO LOADS OVER 11 FT WIDE
XW20-YWR(C)
RIGHT LANE FOR EXIT ONLY
XW9-7
INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL SIGNS
E 801-T-247d RPD 3 of 8
Eff. for Letting On or After 12-01-2026

This sheet replaces Standard Drawing E 801-TCSN-04

SIGN NUMBER	IMUTCD CODE	SIGN MESSAGE	POST DESIGN TYPE			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	CORNER RADIUS	NO. OF POSTS	
			4 X 4 WOOD	U-CHANNEL	SQUARE POST		BACKGROUND	COPY									1	2
R2-1	R2-1	Speed Limit ___	*	A	1	24 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R2-1-B	R2-1	Speed Limit ___	*	B	2	48 X 60	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R2-Y6	R2-Y6	Worksite Added Penalty	*	B	2	60 X 36	White	Black	7/8	5/8	5 - Series C	5 - Series C	5 - Series C	5 - Series C		2 1/4		X
R2-Y6-A	R2-Y6	Worksite Added Penalty	*	B	2	78 X 42	White	Black	7/8	5/8	6 - Series D	6 - Series D	6 - Series D	6 - Series D		2 1/4		X
R2-Y6a	R2-Y6a	Speeding Max $1000	*	A	1	36 X 18	White	Black	7/8	5/8	5 - Series C	5 - Series C				2 1/4		X
R2-Y6a-A	R2-Y6a	Speeding Max $1000	*	B	2	48 X 24	White	Black	1 1/4	3/4	6 - Series D	6 - Series D				3		X
R2-Y6b	R2-Y6b	Reckless Driving Max 6 Yrs	*	A	1	36 X 24	White	Black	7/8	5/8	5 - Series C	5 - Series C				2 1/4		X
R2-Y6b-A	R2-Y6b	Reckless Driving Max 6 Yrs	*	B	2	48 X 30	White	Black	1 1/4	3/4	6 - Series D	6 - Series D				3		X
R3-2-A (R or L)	R3-2	(Movement Prohibition)	*	A	1	24 X 24	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R3-2-C (R or L)	R3-2	(Movement Prohibition)	*	B	2	48 X 48	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R4-1	R4-1	Do Not Pass	*	A	1	24 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R4-1-B	R4-1	Do Not Pass	*	B	2	48 X 60	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R5-1-A	R5-1	Do Not Enter	*	A	1	36 X 36	Red	White	See FHWA publication Standard Highway Signs for fabrication details									X
R5-1-B	R5-1	Do Not Enter	*	B	2	48 X 48	Red	White	See FHWA publication Standard Highway Signs for fabrication details									X
R6-1 (R or L)	R6-1	One Way (Inside White Arrow)	*	A	1	36 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R6-2-A (R or L)	R6-2	One Way (Above White Arrow)	*	A	1	24 X 30	Black & White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-8	R9-8	Pedestrian Crosswalk	*	A	1	36 X 18	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-9	R9-9	Sidewalk Closed	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-10	R9-10	Sidewalk Closed Use Other Side	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-11	R9-11	Sidewalk Closed Ahead Cross Here	*	A	1	24 X 18	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-11a	R9-11a	Sidewalk Closed Cross Here	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R9-12	R9-12	Bike Lane Closed	*	A	1	24 X 12	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R11-2	R11-2	Road Closed	*	B	1	48 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R11-3	R11-3	Road Closed - Local Traffic Only	*	B	2	60 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R11-4	R11-4	Road Closed to Thru Traffic	*	B	2	60 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
R12-1	R12-1	Weight Limit ___ Tons	*	A	1	24 X 30	White	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
R12-1-A	R12-1	Weight Limit ___ Tons	-	B	2	36 X 48	White	Black	See FHWA publication Standard Highway Signs for fabrication details									X
S4-4P	S4-4	When Flashing Plaque	*	-	-	36 X 18	White	Black	See FHWA publication Standard Highway Signs for fabrication details								-	-
XW1-1-A (R or L)	W1-1	(Turn Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-1-B (R or L)	W1-1	(Turn Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-2-A (R or L)	W1-2	(Curve Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-2-B (R or L)	W1-2	(Curve Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-3-A (R or L)	W1-3	(Reverse Turn Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-3-B (R or L)	W1-3	(Reverse Turn Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-4-A (R or L)	W1-4	(Reverse Curve Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-4-B (R or L)	W1-4	(Reverse Curve Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-6	W1-6	(Single Headed Arrow)	*	B	1	48 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW1-6-A	W1-6	(Single Headed Arrow)	*	B	2	60 X 30	Orange	Black	See FHWA publication Standard Highway Signs 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. All dimensions are in inches.

3. The minimum depth for wood or steel posts shall be 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS

E 801-T-247d RPD 4 of 8

Eff. for Letting On or After 12-01-2026

E 801-T-247d RPD 5 of 8

This sheet replaces Standard Drawing E 801-TCSN-05

SIGN NUMBER	IMUTCD CODE	SIGN MESSAGE	POST DESIGN TYPE			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)	CORNER RADIUS	NO. OF POSTS	
			4 X 4 WOOD	U-CHANNEL	SQUARE POST		BACKGROUND	COPY									1	2
XW3-4S	-	Overhead Sign Installation	*	B	2	60 x 24	Orange	Black	1/2	3/8	6 - Series C	6 - Series C				1 1/2		X
XW3-5-A	W3-5	(Reduced Speed Limit Ahead)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW3-5-B	W3-5	(Reduced Speed Limit Ahead)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW3-5a-A	W3-5	(Reduced Speed Limit Ahead)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW3-5a-B	W3-5	(Reduced Speed Limit Ahead)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW4-2 (R or L)	W4-2	(Lane Ends Merge ____ Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW4-2-A (R or L)	W4-2	(Lane Ends Merge ____ Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW6-2a-A	W6-2	(Divided Highway Ends Symbol)	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
WX6-2a-B	W6-2	(Divided Highway Ends Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW6-3-B	W6-3	(Two Way Traffic Symbol)	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-1-A	W8-1	Bump	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-1-B	W8-1	Bump	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-2-A	W8-2	Dip	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-2-B	W8-2	Dip	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-3-A	W8-3	Pavement Ends	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-4-A	W8-4	Soft Shoulder	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-4-B	W8-4	Soft Shoulder	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-6-A	W8-6	Truck Crossing	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW8-6-B	W8-6	Truck Crossing	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-1-A (R or L)	W9-1	____ Lane Ends	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-1-B (R or L)	W9-1	____ Lane Ends	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-2-B (R or L)	W9-2	Lane Ends Merge ____	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW9-7	W9-7	Right Lane for Exit Only	6 X 6	-	-	132 X 72	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW12-1-C	W12-1	Double Arrow	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW13-1-A	W13-1	Advisory Speed Plaque	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								-	-
XW20-1-A	W20-1	Road Work Ahead	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-1	W20-1	Road Work Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-2	W20-2	Detour Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-3	W20-3	Road Closed Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-4	W20-4	One Lane Road Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-5 (R, C, or L)	W20-5	_____ Lane Closed Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-7-A	W20-7	Flagger Symbol	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW20-YWR(A)	-	Wide Load Restriction ___ Miles	*	B	2	48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D	6 - Series D			3		X
XW20-YWR(B)	-	Wide Load Over __ ft Must Exit	*	B	2	48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series C	6 - Series C	6 - Series C		3		X
XW20-YWR(C)	-	No Loads Over ___ ft Wide	*	B	2	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 this word or line shall be reduced by this percentage as shown in the FHWA document, *Standard Highway Signs*.

2. All dimensions are in inches.

3 The minimum depth for wood or steel posts shall be 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS

Eff. for Letting On or After 12-01-2026

801-T-247d TRAFFIC CONTROL SIGNS (proposed draft)

E 801-T-247d RPD 6 of 8

This sheet replaces Standard Drawing E 801-TCSN-06

SIGN NUMBER	IMUTCD CODE	SIGN MESSAGE	POST DESIGN TYPE			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 (1)	PCT. (1)	CORNER RADIUS	NO. OF POSTS	
			4 X 4 WOOD	U-CHANNEL	SQUARE POST												1	2
XW21-1-A	W21-1	Workers Symbol	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-2	W21-2	Fresh Oil	*	A	1	30 X 30	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
XW21-2-A	W21-2	Fresh Oil	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-3-A	W21-3	Road Machinery Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-5-A	W21-5	Shoulder Work	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-6-A	W21-6	Survey Crew	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-7	W21-7	Utility Work Ahead	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-7-A	W21-7	Utility Work Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-Y8b	-	Mowing Next X Miles	*	A	1	36 X 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	6 - Series C			2 1/4		X
XW21-Y8b-A	-	Mowing Next X Miles	*	B	2	48 X 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Series C	8 - Series C			3		X
XW21-8	W21-8	Mowing Ahead	*	A	1	36 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW21-8-A	W21-8	Mowing Ahead	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XW26-1	W26-1	Watch for Stopped Traffic	*	B	2	48 X 48	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XG20-1	G20-1	Road Work Next __ Miles	*	B	1	48 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XG20-2	G20-2	End Road Work	*	B	1	48 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
XG20-4	G20-4	Pilot Car Follow Me	-	-	-	36 X 18	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								-	-
XG20-5	-	(Route Number or Lane Closed On or After ____)	*	B	2	60 X 36	Orange	Black	3/4	1/2	6 - Series C	6 - Series C	6 - Series C			2 1/4		X
XG20-5P	XG20-5P	Worksite Plaque	-	-	-	48 X 16	Orange	Black	1/2	3/8	8 - Series C					1 1/2	-	-
XG20-5P-A	XG20-5P	Worksite Plaque	-	-	-	60 x 18	Orange	Black	1/2	3/8	8 - Series D					1 1/2	-	-
XG20-5P-B	XG20-5P	Worksite Plaque	-	-	-	78 X 24	Orange	Black	1/2	3/8	9 - Series E					1 1/2	-	-
XW20-6	-	Lane Restrictions On or After _____	*	B	2	60 X 36	Orange	Black	3/4	1/2	5 - Series C	5 - Series C	4 - Series C			1 7/8		X
XW20-6A	-	Lane Restrictions On or After _____	*	B	2	72 X 36	Orange	Black	7/8	5/8	6 - Series C	6 - Series C	5 - Series C			2 1/4		X
XM4-9 (R or L)	M4-9	Detour (Above Black Arrow)	*	A	1	30 X 24	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details								X	
XM4-9-B (R or L)	M4-9	Detour (Above Black Arrow)	*	B	2	48 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
M4-Y9	-	Temporary Path with Arrow	*	A	1	24 X 12	Orange	Black	5/8	3/8	3 - Series C	3 - Series C (Arrow is 6x4)		2		1 1/2	X	
XM4-Y9d	-	_____ St / Detour Arrow	*	B	2	L X 36	Orange	Black	1/2	3/8	4 - Series C	6 - Series C		1	30	1 1/2	X (L ≤ 42)	X (L > 42)
XM4-Y9e	-	_____ St / Direction / Detour Arrow	*	B	2	L X 48	Orange	Black	1/2	3/8	4 - Series C	6 -Series C	6 -Series C	1	30	1 1/2	X (L ≤ 36)	X (L > 36)
XM4-10 (R or L)	M4-10	Detour (Inside Orange Arrow)	*	B	1	48 X 18	Black & Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
E5-2a	-	Exit Closed	*	B	2	48 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
E5-2	-	Exit Open	*	B	2	48 X 36	Orange	Black	See FHWA publication Standard Highway Signs for fabrication details									X
E5-Y1c	E5-1c	Exit (Above Arrow)	6x6	B	2	48 X 60	Green	White	1 1/2	0	12 - Series E		(Arrow is 10-13.4)			6		X

*Wood post permitted.

NOTES:

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

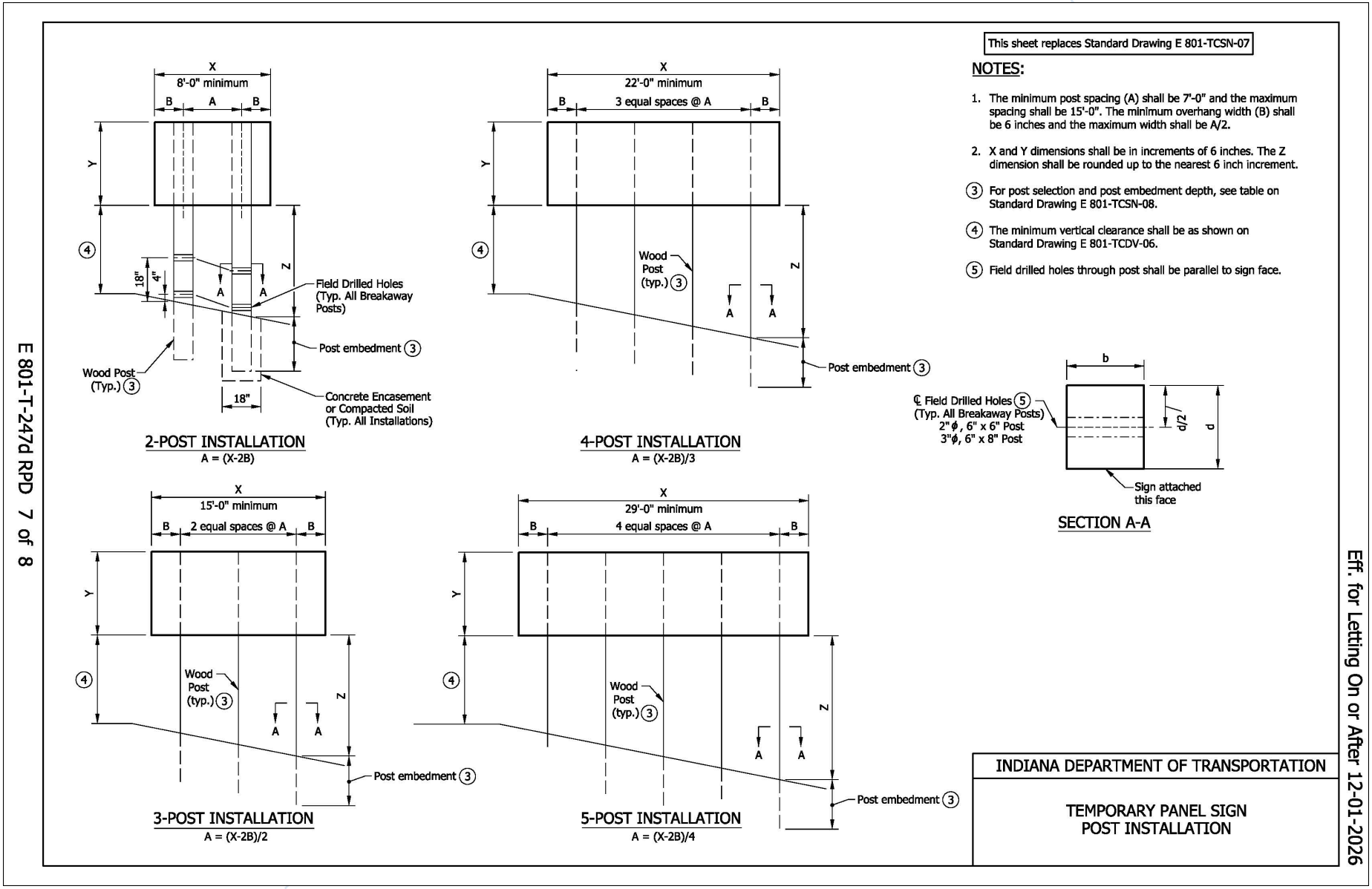
2. All dimensions are in inches.

3. The minimum depth for wood or steel posts shall be 4 ft.

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN DESIGN DETAILS

Eff. for Letting On or After 12-01-2026



E 801-T-247d RPD 7 of 8

Eff. for Letting On or After 12-01-2026

This sheet replaces Standard Drawing E 801-TCSN-08

TEMPORARY PANEL SIGN WOOD POST SELECTION TABLE						
Post Description	Nominal Post Size (b x d)	(X * Y * Z) in ft^3 (Maximum) Number of Posts				Post Embedment
		2	3	4	5	ft
Breakaway Post	6" x 6"	363	681	1000	1318	5
	6" x 8"	479	899	1319	1739	6
Non-Breakaway Post ⑤	6" x 6"	389	730	1071	1412	5
	6" x 8"	615	1154	1693	2232	6
	8" x 8"	755	1416	2078	2739	7
	8" x 10"	1007	1941	2848	3754	8
	10" x 10"	1279	2399	3519	4639	9

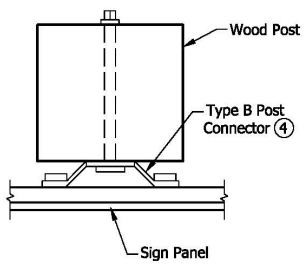
NOTES:

1. Post material shall be dense southern pine select natural.
2. See Standard Drawing E 801-TCSN-07 for X, Y and Z dimensions.
3. The table is valid for dimensions within the following range:
   Sign Width (X) between 8'-0" and 45'-0"
   Sign Height (Y) between 4'-0" and 20'-0"
   Clear Height (Z) between 7'-0" and 15'-0"

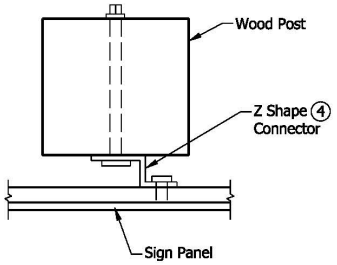
④ The length of the connector shall be equal to the sign height Y.

⑤ Non-breakaway posts shall be placed outside the clearzone or behind barrier or guardrail. The edge of the panel sign adjacent to traffic shall be at least 6 feet from the face of the barrier or guardrail.

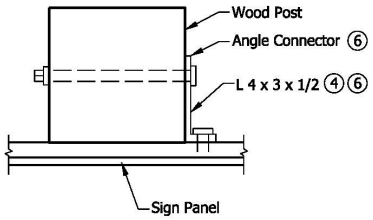
⑥ At exterior posts, the Angle Connector shall be installed on the outside face of the post.



TYPE B POST CONNECTION



Z SHAPE CONNECTION



ANGLE SHAPE CONNECTION

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY PANEL SIGNS
WOOD POST SELECTION TABLE

E 801-T-247d RPD 8 of 8

Eff. for Letting On or After 12-01-2026

COMMENTS AND ACTION

801-R-542 WORKSITE ADDED PENALTY SIGNS
801-T-247d TRAFFIC CONTROL SIGNS

DISCUSSION:

This item was introduced and presented by Mr. Bruno, who stated that Section 1B.02 of the 11th edition of the MUTCD requires states to update standard drawings to be in substantial conformance with the MUTCD. RSP 801-R-542 for worksite added penalty signs needs various updates for the current edition of the MUTCD.

Mr. Bruno proposed to update RSP 801-R-542 to include current MUTCD content on the worksite added penalty signs. Further detailed explanations were provided by Mr. Bruno, following concerns by Mr. Doug Nagel.

Mr. Koch stated that some white backgrounds are benign, such as US/State route markers and one ways, while others require official actions, such as speed limits, or developed processed, as described in construction memo 14-06. Would changing our penalty signage to white backgrounds require official actions for each job or an approving process, such as memo 14-06?

Mr. Bruno responded that the new worksite added penalty signs will not require an Official Action or a new process to deploy them. The worksite added penalty signs are required by IC 9-21-4-20 and the FHWA MUTCD Team in Washington would not approve the continued use of warning sign versions of the worksite added penalty signs in the new edition of the Indiana MUTCD. While the new version of the worksite added penalty signs are regulatory signs and not guide signs, they merely provide notice of the added penalties for moving violations in worksites. The worksite added penalty signs are not establishing a speed limit, turn restriction, parking restriction, or other traffic control measure.

Mr. Koch appreciated the background and explanation.

There was no further discussion and this item passed as submitted. The effective dates will be discussed at the next Traffic Standards Subcommittee meeting.

[continued on next page]

COMMENTS AND ACTION

801-R-542 WORKSITE ADDED PENALTY SIGNS
801-T-247d TRAFFIC CONTROL SIGNS

[continued]

Motion: Mr. Bruno Second: Mr. Orton Ayes: 10 Nays: 0 FHWA Approval: YES	**Action:** _X_ Passed as Submitted ___ Passed as Revised ___ Withdrawn
2026 Standard Specifications Sections: NONE Recurring Special Provisions or Plan Details: 801-R-542 WORKSITE ADDED PENALTY SIGNS 801-T-247d TRAFFIC CONTROL SIGNS Standard Drawing affected: 801-TCSN series Design Manual Chapter: 503 GIFE Section: NONE	___ 2028 Standard Specifications ___ Revise Pay Items List ___ Notification to Designers if change is not addressed by RSP ___ Create RSP (No.___) Effective: _X_ Revise RSP (No. 801-R-542) Effective: December 1, 2026 ___ Standard Drawing Effective:___ _X_ Revise RPD (No. 801-T-247d) Effective: December 1, 2026 ___ GIFE Update ___ Frequency Manual Update ___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: RSP 805-T-085 for signal bulb replacement, aerial inspection, and loop replacement as well as RSP 805-T-086 for traffic signal maintenance repair has become outdated. It includes information on incandescent signal bulb wattages and maintenance of traffic specs that are not compliant with the MUTCD depending on the location or duration of the work. In addition, the RSP is no longer necessary as signal maintenance contracts are infrequent and referring to the Standard Specifications with unique special provisions, if necessary, is sufficient.

PROPOSED SOLUTION: Rescind RSP 805-T-085 and RSP 805-T-086.

APPLICABLE STANDARD SPECIFICATIONS: N/A

APPLICABLE STANDARD DRAWING: N/A

APPLICABLE DESIGN MANUAL CHAPTER: N/A

APPLICABLE SECTION OF GIFE: N/A

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: RSP 805-T-085 and RSP 805-T-086

PAY ITEMS AFFECTED: 805-02256 for aerial inspection and annual relamp, flasher, 805-02257 for aerial inspection and annual relamp, signal, 805-91706 for anchor bolt repair and 805-94680 for emergency response maintenance need to be marked as unique pay items.

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Reviewed by INDOT district traffic engineers

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: N/A

IMPACT ANALYSIS (attach report): Yes

Submitted By: Joe Bruno on behalf of Dave Boruff

Title: Sr. Traffic Engineer

Division: Traffic Engineering Division

E-mail: jbruno@indot.in.gov

Date: 3/20/2026

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 Qualified Products List (QPL)? No
Will this proposal improve:

Construction costs? No
Construction time? Yes
Customer satisfaction? No
Congestion/travel time? No
Ride quality? No

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

For motorists? Yes
For construction workers? No

Will this proposal improve quality for:

Construction procedures/processes? Yes
Asset preservation? No
Design process? Yes

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? Yes

Is this proposal needed for compliance with:

Federal or State regulations? Yes
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 SPECIAL PROVISIONS

805-T-085 SIGNAL LAMP REPLACEMENT, AERIAL INSPECTION, AND LOOP REPLACEMENT
805-T-086 TRAFFIC SIGNAL MAINTENANCE AND REPAIR

Listed below are the recurring special provisions that have been proposed for discontinuation, *see* PROPOSAL TO STANDARDS COMMITTEE)

805-T-085 SIGNAL LAMP REPLACEMENT, AERIAL INSPECTION, AND LOOP REPLACEMENT

805-T-086 TRAFFIC SIGNAL MAINTENANCE AND REPAIR

COMMENTS AND ACTION

805-T-085 SIGNAL LAMP REPLACEMENT, AERIAL INSPECTION, AND LOOP REPLACEMENT
805-T-086 TRAFFIC SIGNAL MAINTENANCE AND REPAIR

DISCUSSION:

Mr. Bruno introduced and presented this item explaining that RSP 805-T-085 for signal bulb replacement, aerial inspection, and loop replacement as well as RSP 805-T-086 for traffic signal maintenance repair has become outdated. It includes information on incandescent signal bulb wattages and maintenance of traffic specs that are not compliant with the MUTCD depending on the location or duration of the work. In addition, the RSP is no longer necessary as signal maintenance contracts are infrequent and referring to the Standard Specifications with unique special provisions, if necessary, is sufficient.

Mr. Bruno proposed rescinding RSP 805-T-085 and RSP 805-T-086.

Motion: Mr. Bruno Second: Mr. Koch Ayes: 10 Nays: 0 FHWA Approval: YES	**Action:** X Passed as Submitted ___ Passed as Revised ___ Withdrawn
2026 Standard Specifications Sections: Recurring Special Provisions or Plan Details: 805-T-085 SIGNAL LAMP REPLACEMENT, AERIAL INSPECTION, AND LOOP REPLACEMENT 805-T-086 TRAFFIC SIGNAL MAINTENANCE AND REPAIR Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	___ 2028 Standard Specifications X Revise Pay Items List ___ Notification to Designers if change is not addressed by RSP ___ Discontinue RSPs (No. 805-T-085 and 805-T-086) Effective: September 1, 2026 ___ Revise RSP (No.___) Effective: ___ Standard Drawing Effective: ___ Create RPD (No. ___) Effective: ___ GIFE Update ___ Frequency Manual Update ___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Structure backfill was inadvertently omitted when listing restrictions for material allowed within 2 ft of the free water level.

PROPOSED SOLUTION: Incorporate attached edits which include structure backfill in the material restrictions.

APPLICABLE STANDARD SPECIFICATIONS: 211

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS: 715-R-809

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: Matt Beeson, Rick Newton, Jim Reilman

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: for the 211 item: Required for all contracts except mowing, herbicide, sweeping, light bulb replacement, or tree removal/trimming.
for the 715-R-809, continue with the existing BFU

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 3/24/26

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? N/A
- Construction time? N/A
- Customer satisfaction? N/A
- Congestion/travel time? N/A
- Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

- For motorists? N/A
- For construction workers? N/A

Will this proposal improve quality for:

- Construction procedures/processes? N/A
- Asset preservation? Yes
- Design process? N/A

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? N/A

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:

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

SECTION 211 – B BORROW AND STRUCTURE BACKFILL
211.03 General Requirements
715-R-809 PIPE CULVERTS, AND STORM AND SANITARY SEWERS

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 211, BEGIN LINE 75, INSERT AS FOLLOWS:

Where B borrow or structure backfill is required as backfill at culverts, retaining walls, sewers, manholes, catch basins, and other miscellaneous structures, it shall be compacted in accordance with 211.04. B borrow *or structure backfill* consisting of ACBF or GBF shall not be used within 2 ft of the free water level.

Where specified, aggregate for end bent backfill shall be placed behind end bents and compacted in accordance with 211.04. Prior to placing the aggregate, a geotextile shall be installed in accordance with 616.11.

211.03.1 Structure Backfill Types

The structure backfill type shall be as specified.

REVISION TO STANDARD SPECIFICATIONS AND SPECIAL PROVISION

SECTION 211 – B BORROW AND STRUCTURE BACKFILL
211.03 General Requirements
715-R-809 PIPE CULVERTS, AND STORM AND SANITARY SEWERS

(Note: Proposed changes are shown only in the affected portion of this provision and are highlighted gray.)

715-R-809 PIPE CULVERTS, AND STORM AND SANITARY SEWERS

(Adopted 11-19-25)

The Standard Specifications are revised as follows:

SECTION 715, BEGIN LINE ~~42~~25, INSERT AS FOLLOWS:

Materials shall be in accordance with the following:

B Borrow	904.06*
Concrete	702
Flowable Backfill	213
Geotextiles	918.02
Pipe Joint Sealant	907.11
Reinforcing Bars	910.01
Rubber Type Gaskets	907.13
Straps, Hook Bolts, and Nuts	908.12
Structure Backfill	904

* B borrow *or structure backfill* consisting of ACBF or GBF shall not be used within 2 ft of the free water level.

The maximum particle size of backfill material for corrugated pipe shall be less than 1/2 the corrugation depth.

(a) Type 1 Pipe

Type 1 pipe shall be used for culverts under mainline pavement and public road approaches and shall be in accordance with the following:

[link to the full text of this provision]

COMMENTS AND ACTION

211.03 General Requirements
715-R-809 PIPE CULVERTS, AND STORM AND SANITARY SEWERS

DISCUSSION:
This item was introduced and presented by Mr. Reilman who stated that Structure backfill was inadvertently omitted when listing restrictions for material allowed within 2 ft of the free water level.

Mr. Reilman proposed to incorporate the above shown edits which include structure backfill in the material restrictions.

Motion: Mr. Reilman Second: Mr. Dave Ayes: 10 Nays: 0 FHWA Approval: YES	**Action:** X Passed as Submitted ___ Passed as Revised ___ Withdrawn
2026 Standard Specifications Sections: 211, pp. 231 - 237. Recurring Special Provisions or Plan Details: 715-R-809 PIPE CULVERTS, AND STORM AND SANITARY SEWERS Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	X 2028 Standard Specifications ___ Revise Pay Items List ___ Notification to Designers if change is not addressed by RSP X Create RSP (No. 211-R-819) Effective: September 1, 2026 X Revise RSP (No. 715-R-809) Effective: September 1, 2026 ___ Standard Drawing Effective: ___ Create RPD (No. ___) Effective: ___ GIFE Update ___ Frequency Manual Update ___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: There is confusion with the ACBF, GBF, and SF adjustments for aggregates

PROPOSED SOLUTION: Incorporate the proposed language into 303.09 and 904 as shown

APPLICABLE STANDARD SPECIFICATIONS: 303.09 and 904.01

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS: 904-M-073

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: Matt Beeson, Rick Newton, Jim Reilman

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: for 303: Required for all contracts except mowing, herbicide, sweeping, light bulb replacement, or tree removal/trimming.
for 904-M-073, keep existing BFU

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 3/24/26

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? N/A
- Construction time? N/A
- Customer satisfaction? N/A
- 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? N/A
- Design process? N/A

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:

REVISION TO STANDARD SPECIFICATIONS

SECTION 303 – AGGREGATE PAVEMENTS OR SHOULDERS
303.09 Method of Measurement
SECTION 904 – AGGREGATES
904.01 Aggregates

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 303, BEGIN LINE 65, INSERT AS FOLLOWS:

303.09 Method of Measurement

Compacted aggregate will be measured by the ton in accordance with 109.01(b) for the type specified. *If ACBF, GBF, or SF aggregates are used, an adjustment in weight for the entire contract item will be made for each contract pay item that is 500 t or greater to compensate for the difference in specific gravity of slag compared to natural aggregate. The measured quantity will be adjusted in accordance with 904.01 to determine the pay quantity.* Geosynthetics will be measured in accordance with 214.05.

SECTION 904, BEGIN LINE 3, DELETE AS FOLLOWS:

904.01 Aggregates

Aggregates shall consist of natural or manufactured materials produced from but not limited to limestone, dolomite, gravels, sandstones, ~~steel furnace slag,~~ SF, ~~air-cooled blast furnace slag,~~ ACBF, ~~granulated blast furnace,~~ GBF, wet bottom boiler slag, or other geologic rock types approved by the Engineer.

SECTION 904, BEGIN LINE 24, DELETE AND INSERT AS FOLLOWS:

Aggregates, except those used for precast concrete units or fine aggregates used for snow and ice abrasive, shall be supplied by a Certified Aggregate Producer in accordance with 917. Structure backfill may be obtained from a non-CAPP source in accordance with 211.02. SF for SMA mixtures ~~shall~~*will* also require the following:

SECTION 904, BEGIN LINE 76, INSERT AS FOLLOWS:

When slag is furnished as an aggregate, the approximate quantity of tons to be supplied will be determined by multiplying the *contract* pay item quantity of tons by the specific gravity of slag divided by 2.6. The adjusted contract *pay item* quantities will be determined by multiplying the accepted quantity of tons by 2.6 divided by the specific gravity of the slag.

COMMENTS AND ACTION

303.09 Method of Measurement
904.01 Aggregates

DISCUSSION:
Mr. Reilman introduced and presented this item stating that there is confusion with the ACBF, GBF, and SF adjustments for aggregates. Mr. Reilman proposed to incorporate the proposed language into 303.09 and 904 as shown above.

Mr. Koch, about the added language in 303.09, mentioned that field personnel will question: adjust only the portion greater than 500 tons? Contractual or project level pay item? Planned or final quantity? To me the answers to these questions are straight forward, yet if passed, many interpretations will happen if we are not concise. To provide clarity, can clarification language be worked into the verbiage? If not perhaps GIFE guidance?

Mr. Reilman responded that the words highlighted in gray are proposed to be inserted ("…*an adjustment in weight for the entire contract item will be made for each contract pay item that is 500 t or greater*…"). This will be for the planned quantity as that is what is being bid on. I suppose on a case-by-case basis, if there is a large bust in the plans or something and a change order is created, these adjustment factors can be incorporated into that change order. Otherwise for minor item overruns, say plan quantity is 470 t and final placed quantity is 503 t, no adjustment would be made.

Mr. Koch also asked, could AWP include a field to ensure not just the positive adjustments are made but also the negative? Mr. Reilman differed to Mr. Jacobs who said he knows of no such template to be used on a sample record that could report/document this.

Mr. Koch also stated that the existing 904 language indicated fixed SG values per the table with the proposal adding one word. Yet it would seem reasonable for the material supplier/testing to provide an actual SG. If not, what value should be used for GBF coarse aggregate, not shown in the table? Mr. Reilman answered that adjustments for using slag first appeared in the 1985 specifications. The first occurrence of an adjustment for GBF as a fine aggregate was in the 1995 specification. I have not found any adjustment factors for GBF coarse aggregate in any spec book. My thoughts are to not add any mention of GBF for coarse aggregate at this time and instead follow up with the slag producers thru IMAA and see if we can figure out a reason as to why it has never been a part of the specification and if there is a reason to incorporate something in the future.

Mr. Koch responded that the table seems to be the basis for the adjustment math. Or should the Contractor provide the actual SG for the proposed product especially as one product is not listed? If we believe GBF and ACBF coarse aggregate is the same, okay, but we should provide appropriate instruction for field personnel.

Mr. Reilman and Mr. Koch discussed removing the granulated blast furnace slag from the 303.09 Method of Measurement, and Mr. Reilman said he will look into it

Mr. Reilman revised his motion which was seconded by Mr. Koch.

[continued on next page]

COMMENTS AND ACTION

303.09 Method of Measurement
904.01 Aggregates

[continued]

Motion: Mr. Reilman
Second: Mr. Bruno
Ayes: 10
Nays: 0
FHWA Approval: YES

Action:

__ Passed as Submitted
_X_ Passed as Revised
__ Withdrawn

2026 Standard Specifications Sections:
303.09 pg. 268 and 904.01 pp. 1015 - 1017.

Recurring Special Provisions or Plan Details:
904-M-073 AGGREGATES

Standard Drawing affected:
NONE

Design Manual Chapter:
NONE

GIFE Section:
NONE

_X_ 2028 Standard Specifications
__ Revise Pay Items List
__ Notification to Designers if change is not addressed by RSP

_X_ Create RSP (No. 303-R-818)
Effective: September 1, 2026

_X_ Revise RSP (No. 904-M-073) (Note: to edit 904-M-076 to change "shall" to "will" to match with approved changes)
Effective: September 1, 2026

__ Standard Drawing
Effective:

__ Create RPD (No. __)
Effective:

__ GIFE Update
__ Frequency Manual Update
__ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: HMA can benefit from the use of SMA RAP, but it currently is not allowed. The $500 fee for dispute samples is no longer needed.

PROPOSED SOLUTION: Modify 401.06 to allow the use of SMA RAP. Delete the language in 401.20 creating the $500 credit adjustment.

APPLICABLE STANDARD SPECIFICATIONS: 401

APPLICABLE STANDARD DRAWINGS: NA

APPLICABLE DESIGN MANUAL SECTION: NA

APPLICABLE SECTION OF GIFE: NA

APPLICABLE RECURRING SPECIAL PROVISIONS: N/A

PAY ITEMS AFFECTED: N/A

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Materials and Construction Committee

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Any 401 pay item

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT Materials and Tests

Phone Number: 317-522-9692

Date: 3/13/26

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? Y
Will approval of this item affect the Approved Materials List? N
Will this proposal improve:

- Construction costs? Y
- Construction time? N
- Customer satisfaction? N
- Congestion/travel time? N
- Ride quality? N

Will this proposal reduce operational costs or maintenance effort? N

Will this item improve safety:

- For motorists? Y
- For construction workers? N

Will this proposal improve quality for:

- Construction procedures/processes? Y
- Asset preservation? N
- Design process? N

Will this change provide the contractor more flexibility? Y

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

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

Is this proposal needed for compliance with:

- Federal or State regulations? N
- AASHTO or other design code? N

Is this item editorial? N

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

REVISION TO STANDARD SPECIFICATIONS

SECTION 401 – QC/QA HMA PAVEMENT
401.05 Volumetric Mix Design
401.06 Recycled Materials
401.20 Contractor Disputing Acceptance Test Results

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 401, BEGIN LINE 87, INSERT AS FOLLOWS:

Sieve Size	Dense Graded, Mixture Designation – Control Point (Percent Passing)				
	25.0 mm	**19.0 mm**	**12.5 mm**	**9.5 mm**	**4.75 mm****
2 in. (50.0 mm)					
1 1/2 in. (37.5 mm)	100.0				
1 in. (25.0 mm)	90.0 - 100.0	100.0			
3/4 in. (19.0 mm)	< 90.0	90.0 - 100.0	100.0		
1/2 in. (12.5 mm)		< 90.0	90.0 - 100.0	100.0***	100.0
3/8 in. (9.5 mm)			< 90.0	90.0 - 100.0	95.0 - 100.0
No. 4 (4.75 mm)				< 90.0	90.0 - 100.0
No. 8 (2.36 mm)	19.0 - 45.0	23.0 - 49.0	28.0 - 58.0	32.0 - 67.0*	
No. 16 (1.18 mm)					30.0 - 55.0
No. 30 (600 µm)					
No. 50 (300 µm)					
No. 200 (75 µm)	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	3.0 - 8.0

*The mix design gradation shall be less than or equal to 58.0% passing the No. 8 (2.36 mm) sieve for all 9.5 mm surface mixtures. The mix design gradation can be greater than 58.0% passing the No. 8 (2.36 mm) sieve when used on non-Department maintained facilities.

** The total blended aggregate gradation for the 4.75 mm mixture shall have a fineness modulus greater than or equal to 3.30 as determined in accordance with AASHTO T 27.

*** *The percent passing shall be 98.0% - 100.0% when SMA RAP material in accordance with 401.06 is used.*

SECTION 401, BEGIN LINE 92, DELETE AND INSERT AS FOLLOWS:

~~Dust/Calculated Effective Binder Ratio for dense graded mixtures shall be 0.6 to 1.4. The Dust/Calculated Effective Binder Ratio for 4.75 mm mixtures shall be 1.0 to 2.0.~~

Dust/Calculated Effective Binder Ratio	
Mixture	*Ratio*

4.75 mm	*1.0 – 2.0*
9.5 mm	*0.6 – 1.4*
12.5 mm	
19.0 mm	
25.0 mm	*0.8 – 1.6*

SECTION 401, BEGIN LINE 162, DELETE AND INSERT AS FOLLOWS:

401.06 Recycled Materials

Recycled materials may consist of RAP or RAS or a blend of both. *HMA* RAP shall be the product resulting from the cold milling or crushing of an existing HMA pavement. Before entering the plant, *HMA* RAP shall be processed so that 100% will pass the 2 in. (50 mm) sieve. Before entering the plant, RAS shall be processed so that 100% will pass the 3/8 in. (9.5 mm) sieve. The *HMA* RAP coarse aggregate shall pass the maximum size sieve for the mixture being produced.

SMA RAP, as defined in 410.06, may be used. The Contractor may request the use of SMA RAP material in the HMA mixture provided the material is stockpiled separately at the plant and the material properties were determined in accordance with ITM 584 during stockpile construction. The request shall include all QC test results describing the stockpile composition. The Engineer will obtain a representative sample of the SMA RAP material in accordance with ITM 207 for testing in accordance with ITM 590 to verify the proposed design value.

HMA RAP for the ESAL category 3 and 4 surface mixtures shall be a fine *HMA* RAP with 100% passing the 3/8 in. (9.5 mm) sieve and 95 to 100% passing the No. 4 (4.75 mm) sieve.

[moved to a separate paragraph] The Contractor may request the use of coarse *HMA* RAP in a category 4 surface mixture up to a maximum 20.0% by volume of material retained on the No. 4 (4.75 mm) sieve. The election to use coarse *HMA* RAP in a category 4 surface mixture will void the allowed use of crushed stone and gravel coarse aggregate materials in accordance with 904.03(d). ~~SMA RAP as defined in 410.06 shall not be used in any HMA mixture.~~

SECTION 401, BEGIN LINE 217, INSERT AS FOLLOWS:

HMA mixtures utilizing *HMA or SMA* RAP, ~~or~~ RAS, or a blend of ~~RAP and RAS~~*any of these*

MAXIMUM BINDER REPLACEMENT, %										
Mixture Category	**Base and Intermediate**							**Surface**		
	Dense Graded				Open Graded			Dense Graded		
	25.0	19.0	12.5	9.5	25.0	19.0	9.5	12.5	9.5	4.75

REVISION TO STANDARD SPECIFICATIONS

SECTION 401 – QC/QA HMA PAVEMENT
401.05 Volumetric Mix Design
401.06 Recycled Materials
401.20 Contractor Disputing Acceptance Test Results

	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2	25.0*				25.0*			25.0*		
3	25.0*				25.0*			25.0*		
4	25.0*				25.0*			25.0*		
* The contribution of RAS to any HMA mixture shall be ≤ 3.0% by total mass of mixture and ≤ 15.0% binder replacement.										

SECTION 401, BEGIN LINE 965, DELETE AS FOLLOWS:

~~A $500.00 credit adjustment will be included in a quality adjustment pay item in accordance with 109.05.1(d) for each disputed sublot that did not result in an improvement to the SCPF or Lot PF.~~

COMMENTS AND ACTION

401.05 Volumetric Mix Design
401.06 Recycled Materials
401.20 Contractor Disputing Acceptance Test Results

DISCUSSION:
This item was introduced and presented by Mr. Reilman who stated that HMA can benefit from the use of SMA RAP, but it currently is not allowed. The $500 fee for dispute samples is no longer needed.

Mr. Reilman proposed to modify 401.06 to allow the use of SMA RAP, and delete the language in 401.20 creating the $500 credit adjustment. Additional revisions proposed by Mr. Reilman are as shown above.

Mr. Reilman revised his motion which was seconded by Mr. Dave.

There was no further discussion and this item passed as revised.

Motion: Mr. Reilman Second: Mr. Dave Ayes: 10 Nays: 0 FHWA Approval: YES	**Action:** ___ Passed as Submitted _X_ Passed as Revised ___ Withdrawn
2026 Standard Specifications Sections: 401 pp. 301 - 331. Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	_X_ 2028 Standard Specifications ___ Revise Pay Items List ___ Notification to Designers if change is not addressed by RSP _X_ Create RSP (No. 401-R-xxx) Effective: September 1, 2026 ___ Revise RSP (No.___) Effective: ___ Standard Drawing Effective: ___ Create RPD (No. ___) Effective: ___ GIFE Update ___ Frequency Manual Update ___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: SMA has no bonus incentives. Missing recycled materials language.

PROPOSED SOLUTION: Modify 410.06 to clarity SMA RAP language. Update density table in 410.19 to allow a density bonus.

APPLICABLE STANDARD SPECIFICATIONS: 410

APPLICABLE STANDARD DRAWINGS: NA

APPLICABLE DESIGN MANUAL SECTION: NA

APPLICABLE SECTION OF GIFE: NA

APPLICABLE RECURRING SPECIAL PROVISIONS: NA

PAY ITEMS AFFECTED: NA

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Materials and Construction Committee with APAI

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Any 410 pay item

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT Materials and Tests

Phone Number: 317-522-9692

Date: 3/13/26

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? Y
Will approval of this item affect the Approved Materials List? N
Will this proposal improve:

- Construction costs? N
- Construction time? N
- Customer satisfaction? N
- Congestion/travel time? N
- Ride quality? N

Will this proposal reduce operational costs or maintenance effort? N

Will this item improve safety:

- For motorists? N
- For construction workers? N

Will this proposal improve quality for:

- Construction procedures/processes? Y
- Asset preservation? Y
- Design process? N

Will this change provide the contractor more flexibility? Y

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

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

Is this proposal needed for compliance with:

- Federal or State regulations? N
- AASHTO or other design code? N

Is this item editorial? N

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

REVISION TO STANDARD SPECIFICATIONS

SECTION 410 – QC/QA HMA – SMA PAVEMENT
410.06 Recycled Materials
410.20 Contractor Disputing Acceptance Test Results

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 410, AFTER LINE 142, INSERT AS FOLLOWS:

The recycled material percentages shall be as specified on the DMF. SMA mixtures utilizing recycled materials shall be limited to 25.0% binder replacement, computed as follows:

$$\text{Binder Replacement, \%} = \frac{(A \times B)}{C}$$

where:

A = RAP, % Binder Content by Mass of RAP
B = RAP, % by Total Mass of Mixture
C = Total, % Binder Content by Total Mass of Mixture.

The combined aggregate properties shall be in accordance with 904. The combined aggregate bulk specific gravity shall be as determined in accordance with ITM 584 and the combined aggregate gradation shall be in accordance with 410.05 for the SMA mixture specified.

SECTION 410, BEGIN LINE 416, DELETE AND INSERT AS FOLLOWS:

Cores for density determination shall be in accordance with ~~401.16~~*410.16* and ~~401.20~~*410.20* and shall not be taken within 12 in. of either the confined edge or the non-confined edge of the course placed where VRAM has been applied.

SECTION 410, BEGIN LINE 429, DELETE AS FOLLOWS:

Density acceptance for all SMA mixtures shall be based on cores cut from the compacted pavement and analysis of pavement samples obtained in accordance with ITM 580. ~~Acceptance will be based on lots and sublots in accordance with 410.07.~~ The Engineer will randomly select two locations in accordance with ITM 802, within each sublot for coring. The transverse core location will be located so that the edge of the core will be no closer than 3 in. from a confined edge or 6 in. from a non-confined edge of the course being placed. The maximum specific gravity will be determined from the sample obtained in 410.09.

SECTION 410, BEGIN LINE 468, DELETE AS FOLLOWS:

Samples for the bulk specific gravity and maximum specific gravity will be dried in accordance with ITM 572. The Engineer will determine the bulk specific gravity of the cores in accordance with AASHTO T 166, Method A or AASHTO T 331, if required. The maximum specific gravity will be mass determined in water in accordance with AASHTO T 209. ~~The target value for density of SMA mixtures of each sublot shall be 93.0%.~~

SECTION 410, BEGIN LINE 548, DELETE AND INSERT AS FOLLOWS:

(b) Density

~~When the density of the lot is outside the allowable tolerances, a~~*A*djustment points *for the lot density* will be assessed as follows:

AVERAGE DENSITY	
Percentages are based on %MSG	Pay Adjustments~~, %~~**
> ~~97.0~~*98.0*	Submitted to the Division of Materials and Tests*
97.6 – 97.9	*0.00*
96.1 – 97.5	*-2.0+0.10 points for each 0.10% density above 96.0*
95.0 – 96.0	*-2.0 adjustment points*
93.0 – ~~97.0~~*94.9*	~~0.00~~ *-2.0+0.10 points for each 0.10% density below 95.0*
92.0 – 92.9	0.20 points for each 0.10% below 93.0
91.0 – 91.9	2.00 + 0.40 points for each 0.10% below 92.0
89.0 – 90.9	6.00 + 1.00 points for each 0.10% below 91.0
~~≤~~ < 89.0	Submitted to the Division of Materials and Tests*
* Test results will be considered and a determination rendered as a failed material in accordance with 105.03. ** *If any single sublot average density value is less than 91.0, the pay adjustment will not be assessed lower than 0.00.*	

SECTION 410, BEGIN LINE 576, DELETE AND INSERT AS FOLLOWS:

(b) Binder Content and Gradation

The backup sample for binder content ~~and~~*or* gradation will be prepared and tested in accordance with the test methods that were used for acceptance.

COMMENTS AND ACTION

410.06 Recycled Materials
410.20 Contractor Disputing Acceptance Test Results

DISCUSSION:
Mr. Reilman introduced and presented this item stating that SMA has no bonus incentives, and is missing recycled materials language.

Mr. Reilman proposed to modify 410.06 to clarify SMA RAP language, and update the density table in 410.19 to allow a density bonus. Minor editorial additions are as shown.

There was no further discussion and this item passed as submitted.

Motion: Mr. Reilman Second: Mr. Bruno Ayes: 10 Nays: 0 FHWA Approval: YES	**Action:** X Passed as Submitted ___ Passed as Revised ___ Withdrawn
2026 Standard Specifications Sections: 410 pp. 353 - 369. Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	X 2028 Standard Specifications ___ Revise Pay Items List ___ Notification to Designers if change is not addressed by RSP X Create RSP (No. 410-R-xxx) Effective: September 1, 2026 ___ Revise RSP (No.___) Effective: ___ Standard Drawing Effective: ___ Create RPD (No. ___) Effective: ___ GIFE Update ___ Frequency Manual Update ___ AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Occasionally steel carrier pipes larger than those listed in 716 are requested.

PROPOSED SOLUTION: Incorporate the proposed language to allow steel carrier pipes larger than those listed in 716.

APPLICABLE STANDARD SPECIFICATIONS: 716

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS: create new RSP

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: ad hoc: Adam Post, Jim Reilman

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: all contracts with a 716 pay item

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 3/24/26

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? Yes
- Customer satisfaction? N/A
- 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? N/A
- Asset preservation? Yes
- Design process? N/A

Will this change provide the contractor more flexibility? Yes

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

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

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:

SECTION 716 – TRENCHLESS PIPE INSTALLATION
716.02 Materials

(Note: Proposed changes shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 716, BEGIN LINE 101, INSERT AS FOLLOWS:

Steel pipe used as a carrier pipe shall have the following minimum wall thickness *shown in the table below*. *The Department will consider carrier pipes with outside diameters larger than those listed in the table below provided the Contractor supplies a recommended outside diameter and wall thickness that has been designed by, signed by, and bears the seal of a professional engineer.* Steel pipe used as a casing pipe, but not used as a carrier pipe, shall be selected by the Contractor to have minimum wall thickness sufficient to resist jacking forces. For installations where the casing is not used as a carrier but only as a casing for a carrier pipe, the thickness of the casing shall be determined by the Contractor.

Outside Diameter, in.	Wall Thickness, in.
18 or less	1/4
19 – 20	5/16
21 – 26	3/8
27 – 30	1/2
31 – 42	1/2
43 – 48	9/16

COMMENTS AND ACTION

716.02 Materials

DISCUSSION:
This item was introduced and presented by Mr. Reilman who explained that occasionally steel carrier pipes larger than those listed in 716 have been requested. Mr. Reilman proposed to incorporate the proposed language to allow steel carrier pipes larger than those listed in 716, as shown.

Mr. Koch stated that 716 carrier pipe has a historic feel. We know it works because it has worked so far without issue. If we allow an engineer to design larger diameter pipes, would we need to provide design parameters such as soil PH, and service life, within the contract documents?

Mr. Reilman responded that he believes that if the Contractor is going to propose a larger diameter pipe, it would be on the Contractor to get the necessary parameters and include them in their design for our Hydraulics group to review before INDOT would give approval to use a larger pipe.

Mr. Koch expressed concerns about design parameters, such as ASTMs, scour in the pipe, pH, all those things. It just seems like it could be a bit open and we could lose control of the larger pipes that are installed if we don't have design constraints.

Ms. Mouser asked if it would be a hydraulic design rather than structural design? Mr. Reilman said it would need to be both.

Following much discussion with Mr. Reilman, Mr. Koch, and Ms. Mouser, Mr. Reilman withdrew this item pending further review by the pipe committee.

Motion: Mr. Reilman Second: Mr. Koch Ayes: Nays: FHWA Approval:	**Action:** ___ Passed as Submitted ___ Passed as Revised _X_ Withdrawn
2026 Standard Specifications Sections: 716.02, PG. 761. Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: NONE GIFE Section: NONE	___ 2028 Standard Specifications ___ Revise Pay Items List ___ Notification to Designers if change is not addressed by RSP ___ Create RSP (No.____) Effective: ___ Revise RSP (No.___) Effective: ___ Standard Drawing Effective: ___ Create RPD (No. ___) Effective: ___ GIFE Update ___ Frequency Manual Update ___ SiteManager Update