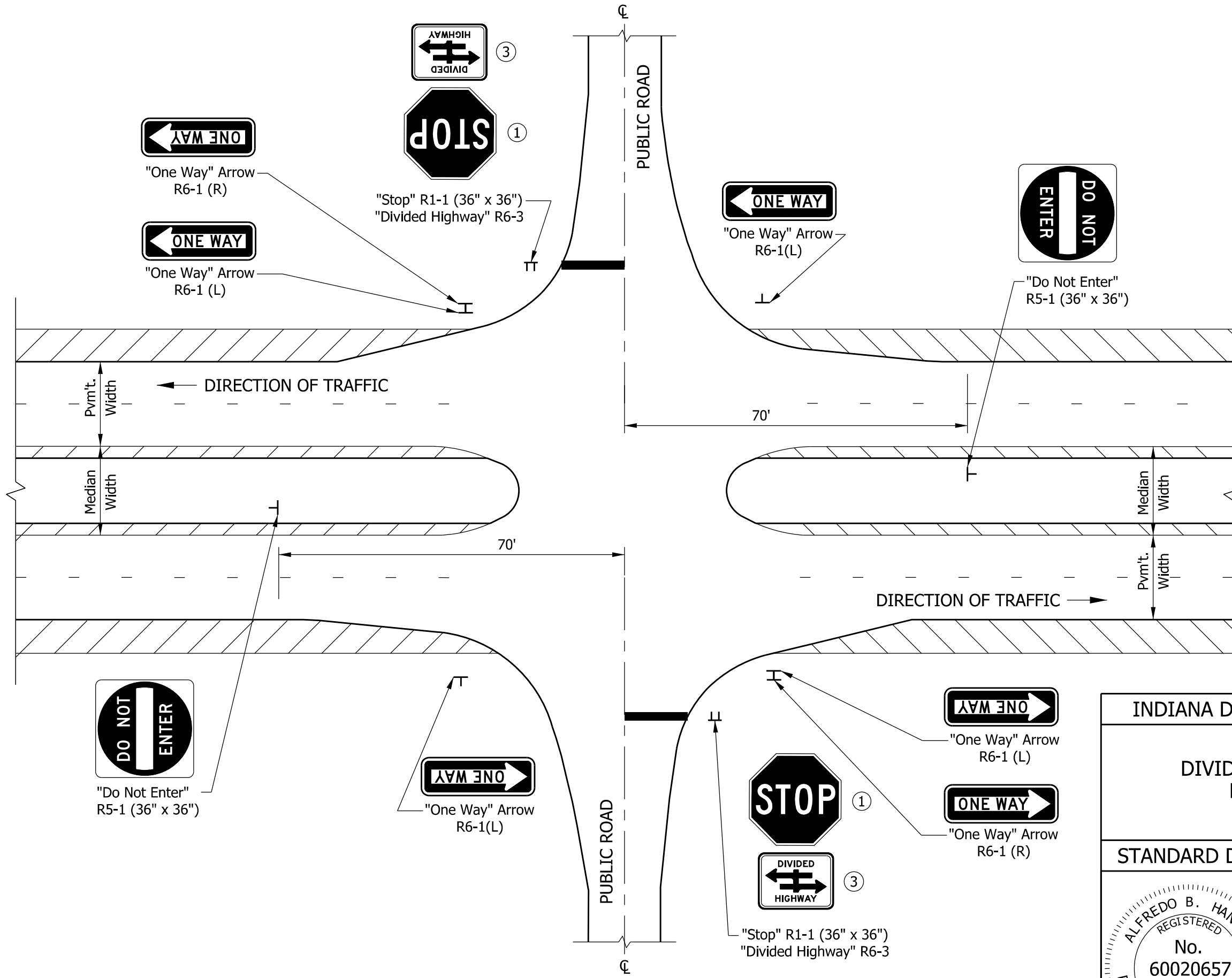
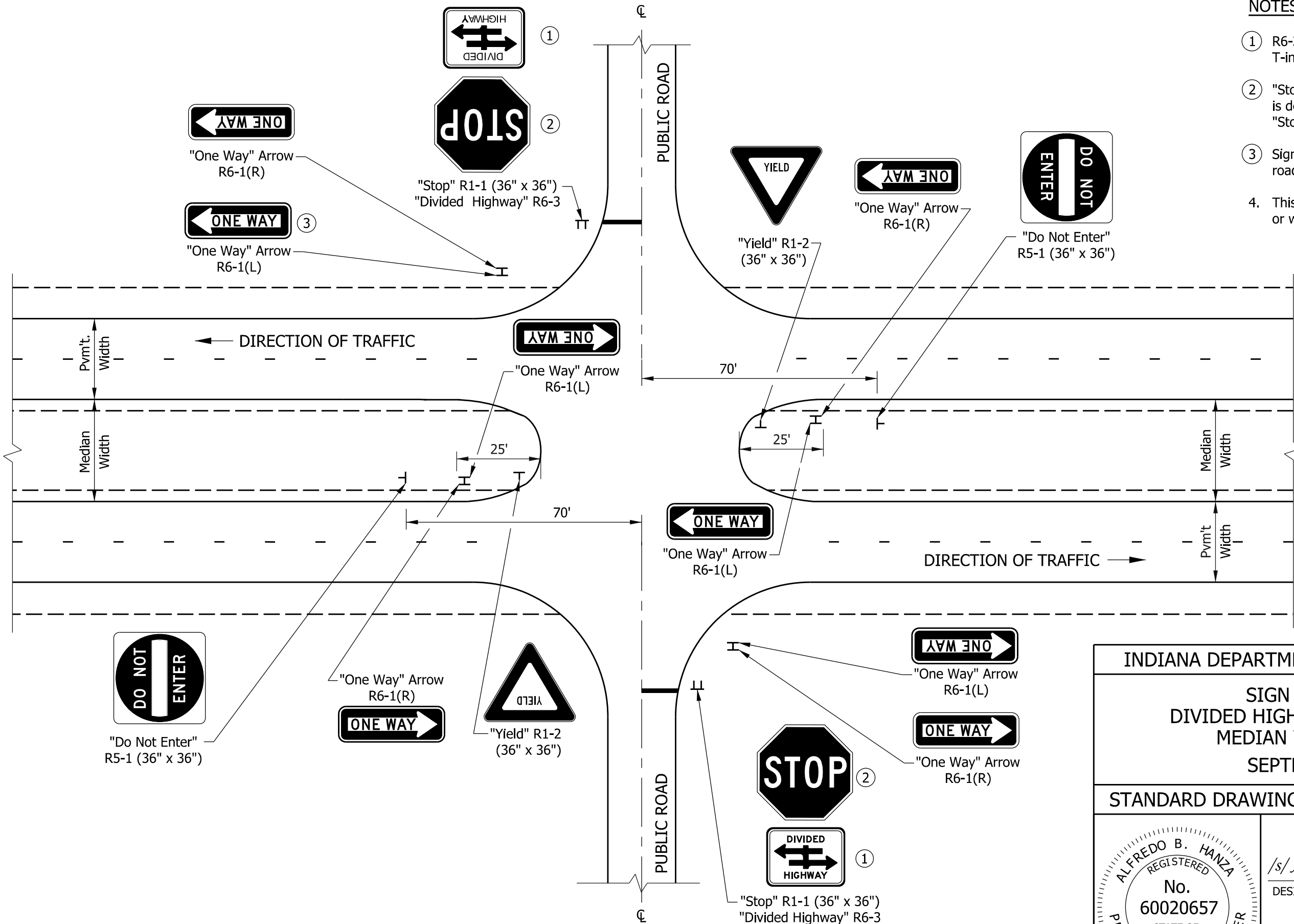


NOTES:

- 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.

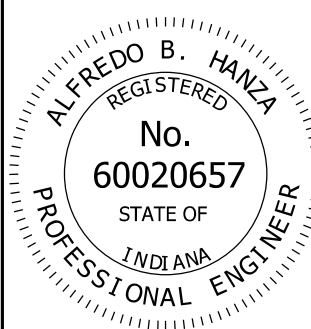


INDIANA DEPARTMENT OF TRANSPORTATION									
SIGN PLACEMENT DIVIDED HIGHWAY INTERSECTION MEDIAN WIDTH < 30 FT SEPTEMBER 2014									
STANDARD DRAWING NO.	E 802-SNDH-01								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; border-bottom: 1px solid black;">/s/ Alfredo B. Hanza</td> <td style="width: 30%; border-bottom: 1px solid black;">03/28/14</td> </tr> <tr> <td style="font-size: small;">DESIGN STANDARDS ENGINEER</td> <td style="font-size: small;">DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black;">/s/ Mark A. Miller</td> <td style="border-bottom: 1px solid black;">03/31/14</td> </tr> <tr> <td style="font-size: small;">CHIEF ENGINEER</td> <td style="font-size: small;">DATE</td> </tr> </table>	/s/ Alfredo B. Hanza	03/28/14	DESIGN STANDARDS ENGINEER	DATE	/s/ Mark A. Miller	03/31/14	CHIEF ENGINEER	DATE
/s/ Alfredo B. Hanza	03/28/14								
DESIGN STANDARDS ENGINEER	DATE								
/s/ Mark A. Miller	03/31/14								
CHIEF ENGINEER	DATE								



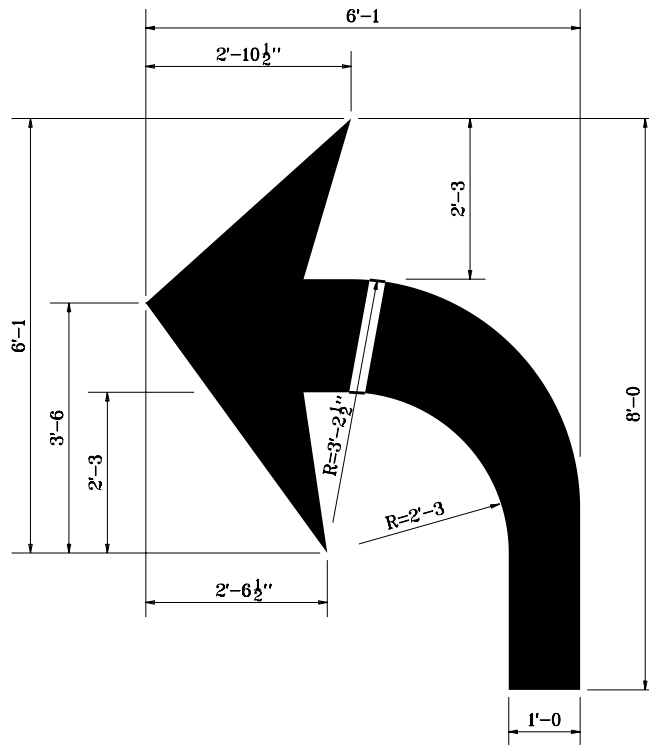
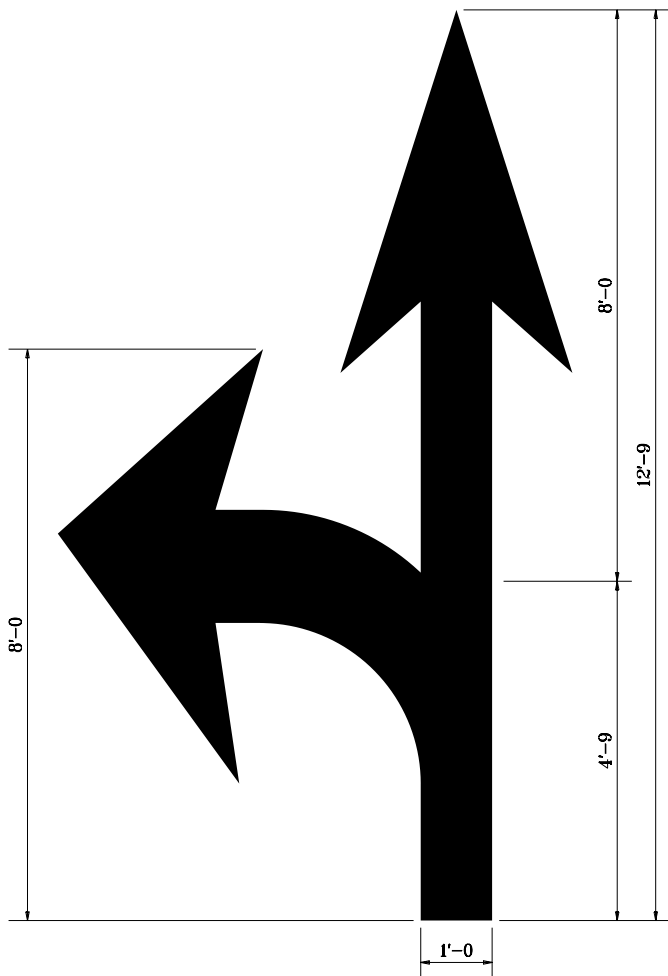
NOTES:

- 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 intersection with or without turn lanes.

INDIANA DEPARTMENT OF TRANSPORTATION									
SIGN PLACEMENT DIVIDED HIGHWAY INTERSECTION MEDIAN WIDTH ≥ 30 FT SEPTEMBER 2014									
STANDARD DRAWING NO. E 802-SNDH-02									
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; border-bottom: 1px solid black;">/s/ Alfredo B. Hanza</td> <td style="width: 20%; border-bottom: 1px solid black;">03/28/14</td> </tr> <tr> <td style="font-size: small;">DESIGN STANDARDS ENGINEER</td> <td style="font-size: small;">DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black;">/s/ Mark A. Miller</td> <td style="border-bottom: 1px solid black;">03/31/14</td> </tr> <tr> <td style="font-size: small;">CHIEF ENGINEER</td> <td style="font-size: small;">DATE</td> </tr> </table>	/s/ Alfredo B. Hanza	03/28/14	DESIGN STANDARDS ENGINEER	DATE	/s/ Mark A. Miller	03/31/14	CHIEF ENGINEER	DATE
/s/ Alfredo B. Hanza	03/28/14								
DESIGN STANDARDS ENGINEER	DATE								
/s/ Mark A. Miller	03/31/14								
CHIEF ENGINEER	DATE								

GENERAL NOTES

1. The tip of the lane indication arrow closest to the stop line shall be 20 ft in advance of the nearest edge of the stop line.

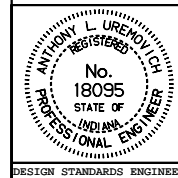


INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS

MARCH 1995

STANDARD DRAWING NO. **E 808-MKPM-02**

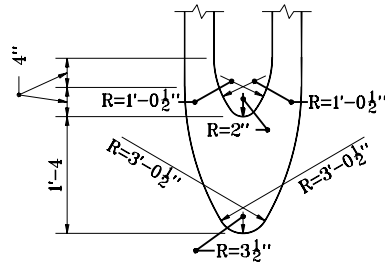
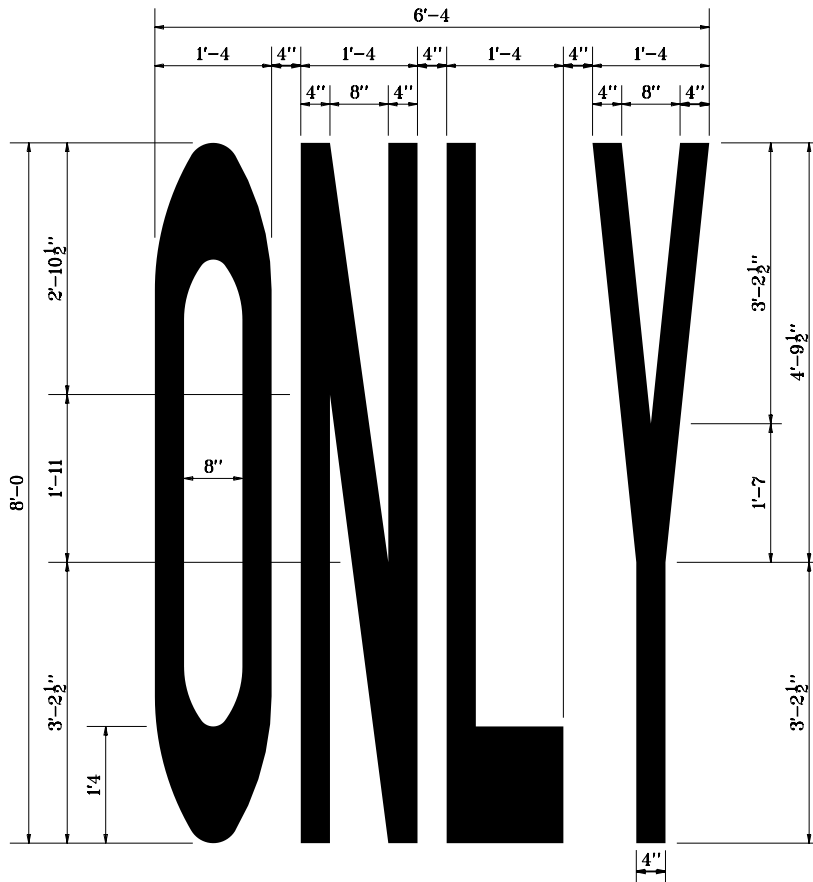


DETAILS PLACED IN THIS FORMAT 7-27-99

/s/ Anthony L. Uremovich 7-27-99
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 7-27-99
CHIEF HIGHWAY ENGINEER DATE
ORIGINALLY APPROVED 3-01-95

DESIGN STANDARDS ENGINEER



DETAILS FOR "O"

GENERAL NOTES

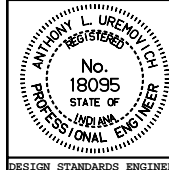
1. The top edge of the word ONLY shall be located in advance of the back edge of the lane indication arrow, at least 4 times the height of the characters for posted speeds ≤ 45 mph but not more than 10 times the height of the characters for posted speeds > 45 mph.
2. Horizontal strokes are 1'-4 wide. Vertical strokes are 4" wide.

INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS

JANUARY 2000

STANDARD DRAWING NOE 808-MKPM-03



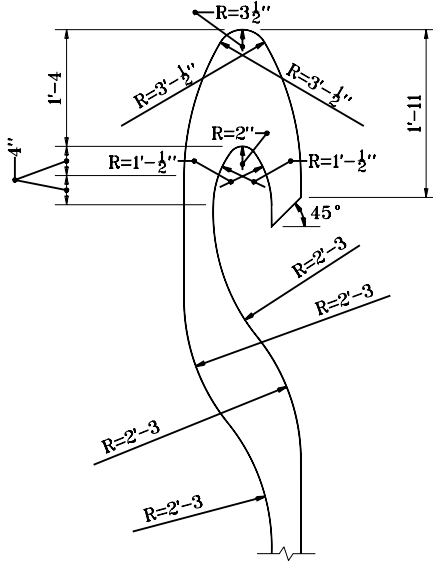
/s/ Anthony L. Uremovich 1-03-00
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 1-03-00
CHIEF HIGHWAY ENGINEER DATE

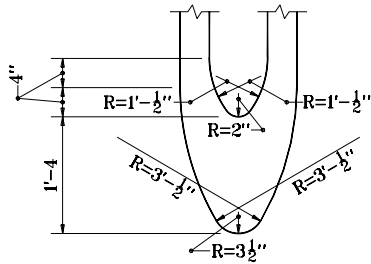
DESIGN STANDARDS ENGINEER

GENERAL NOTES

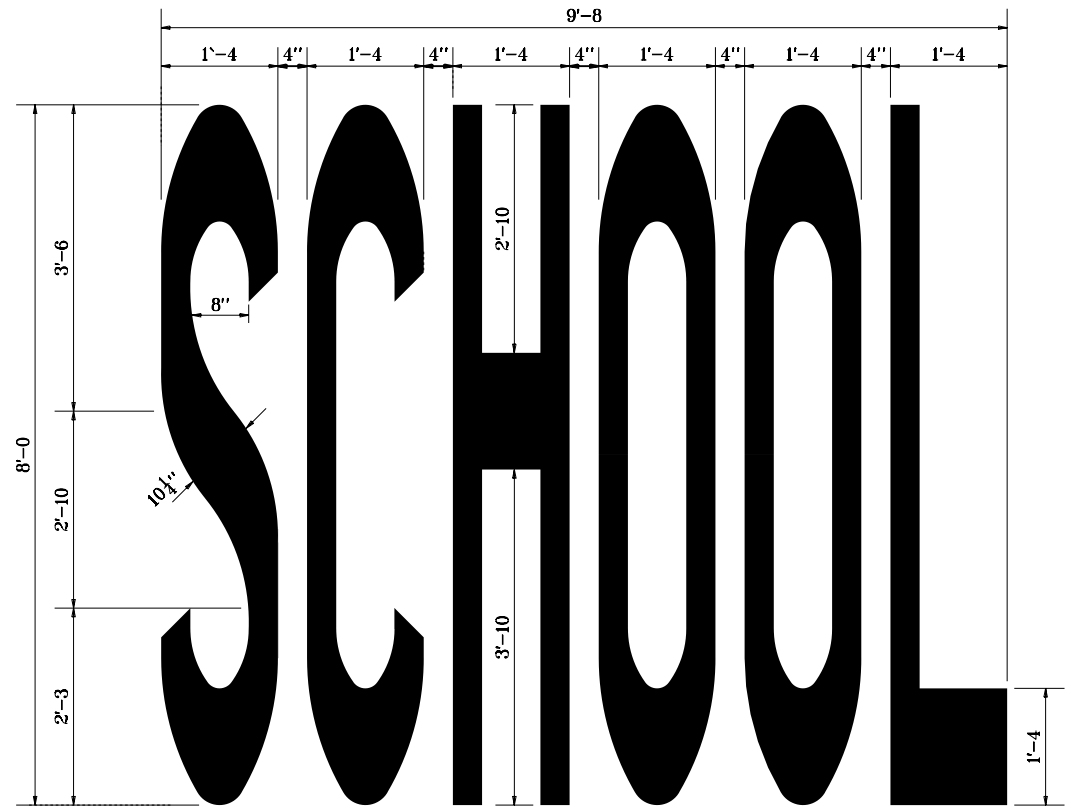
1. Horizontal strokes are 1'-4 wide.
Vertical strokes are 4" wide.



DETAILS FOR "C,G,S"



DETAILS FOR "O"

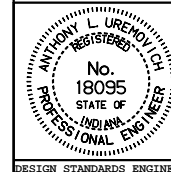


INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS

MARCH 1995

STANDARD DRAWING NOE 808-MKPM-04



DETAILS PLACED IN THIS FORMAT 7-27-99

/s/ Anthony L. Uremovich 7-27-99
DESIGN STANDARDS ENGINEER DATE

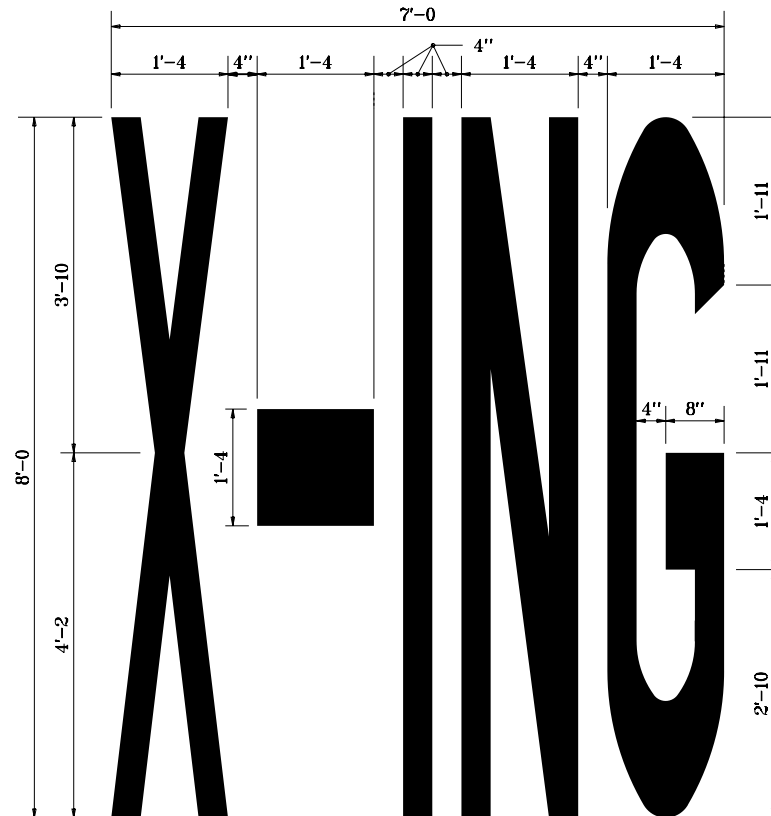
/s/ Firooz Zandi 7-27-99
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

ORIGINALLY APPROVED 3-01-95

GENERAL NOTES

1. Horizontal strokes are 1'-4 wide. vertical strokes are 4" wide.
2. See Standard Drawing E 807-MKPM-04 for Details for "G".

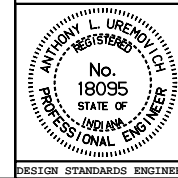


INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS

JANUARY 2000

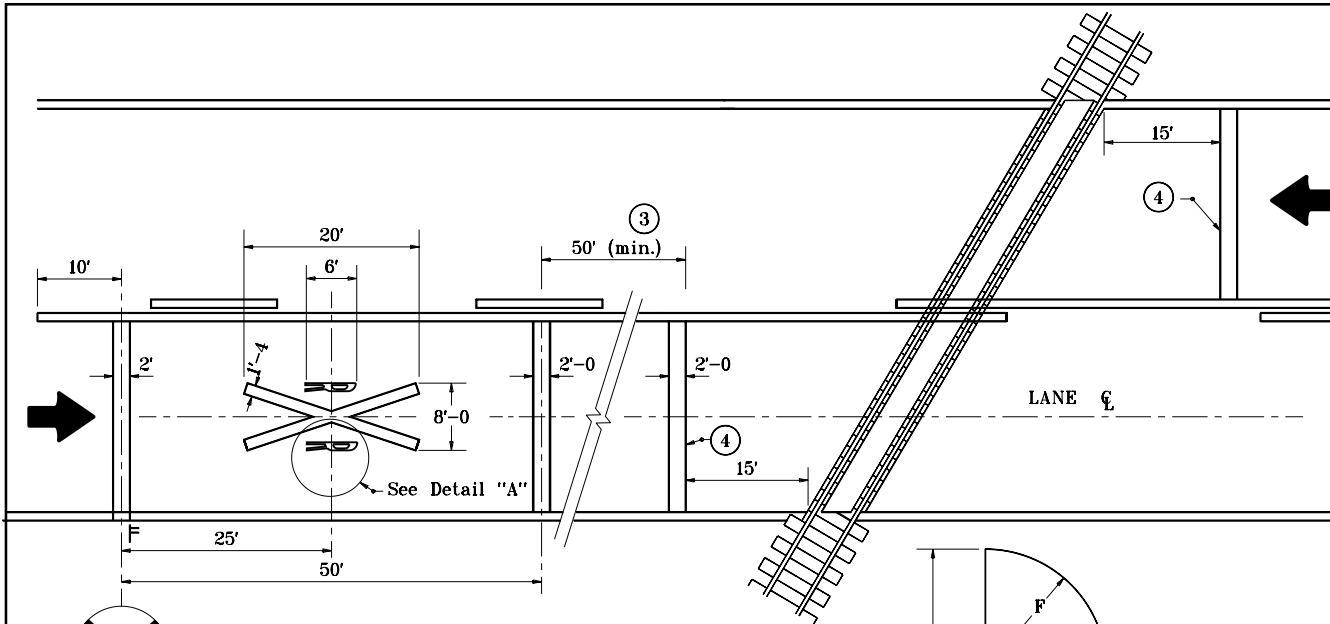
STANDARD DRAWING NO. **E 808-MKPM-05**



/s/ Anthony L. Uremovich 1-03-00
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 1-03-00
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

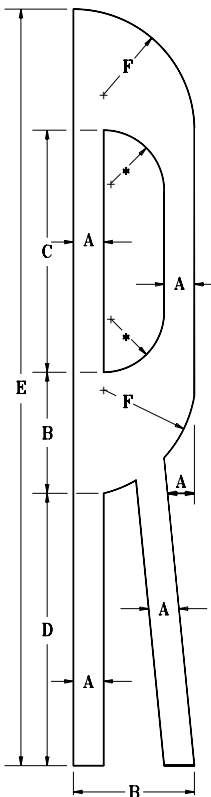


STOPPING SIGHT DISTANCE ③

DESIGN SPEED (mph)	Distance, ft
30	200
35	275
40	325
45	400
50	475
55	575
60	650

- A = 23 3/4"
- B = 11 1/2"
- C = 1'-11"
- D = 2'-1"
- E = 6'-0"
- F = 11 1/2"
- * = 5 3/4" R

DETAIL "A"



GENERAL NOTES

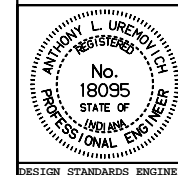
1. For 2-way left-turn lanes, the center lane shall be discontinued across the railroad crossing and marked as a flush median or as a 1-way left-turn lane.
2. For a multi-lane highway, the transverse lines shall be extended across all approach lanes, and the individual railroad crossing symbols provided in each lane.
- ③ Stopping sight distance in rural areas; variable in urban areas, but not less than 50 ft. See Stopping Sight Distance Table.
- ④ Stop line is approximately 8 ft from gate (if present).

INDIANA DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING
FOR RAILROAD CROSSINGS**

JANUARY 2000

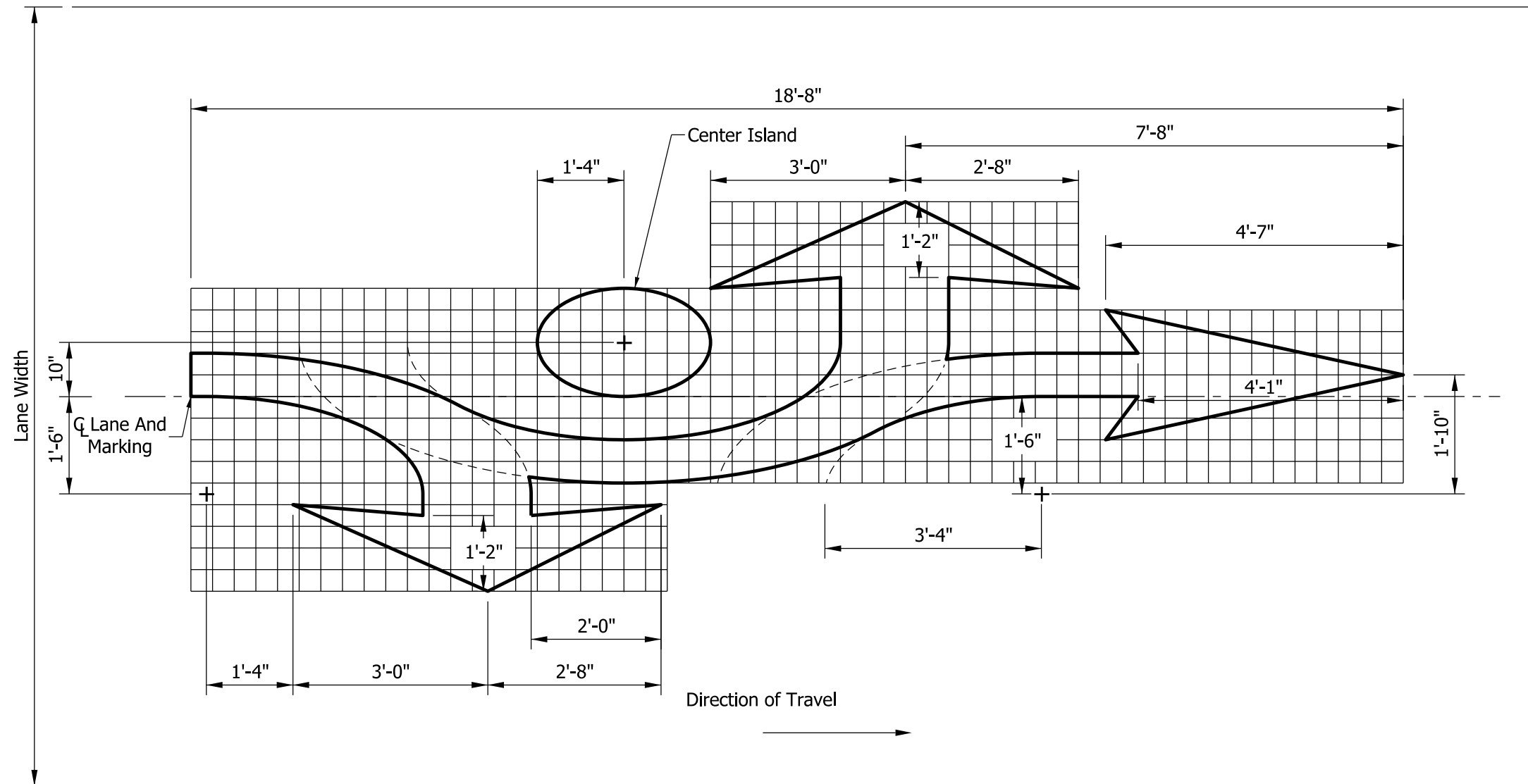
STANDARD DRAWING NO. **E 808-MKPM-07**



/s/ Anthony L. Uremovich 1-03-00
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi 1-03-00
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

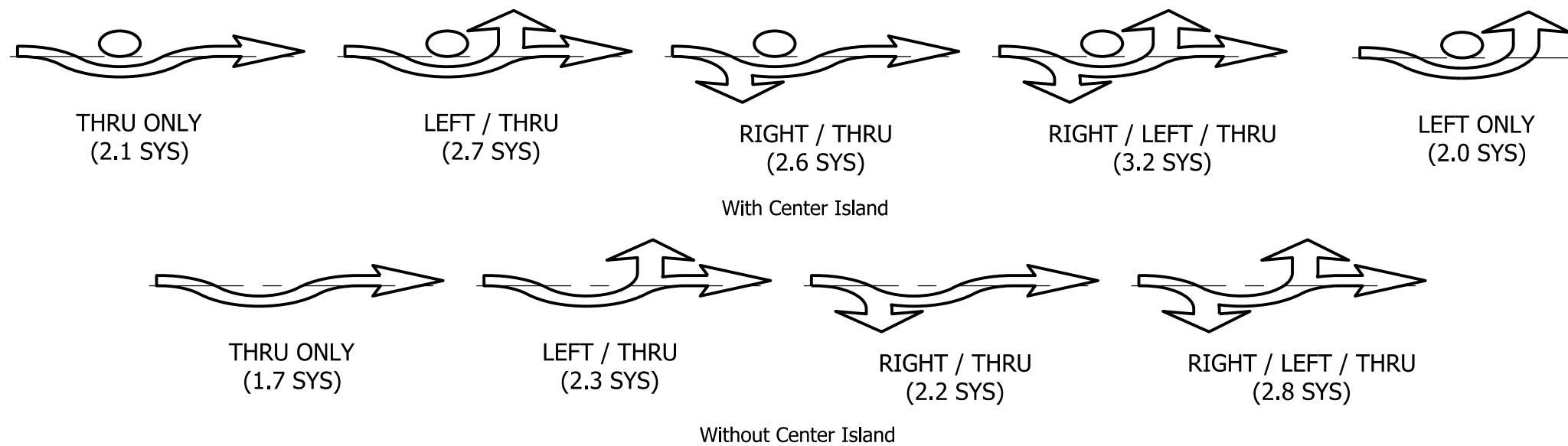


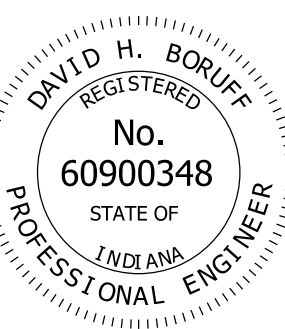
DETAIL

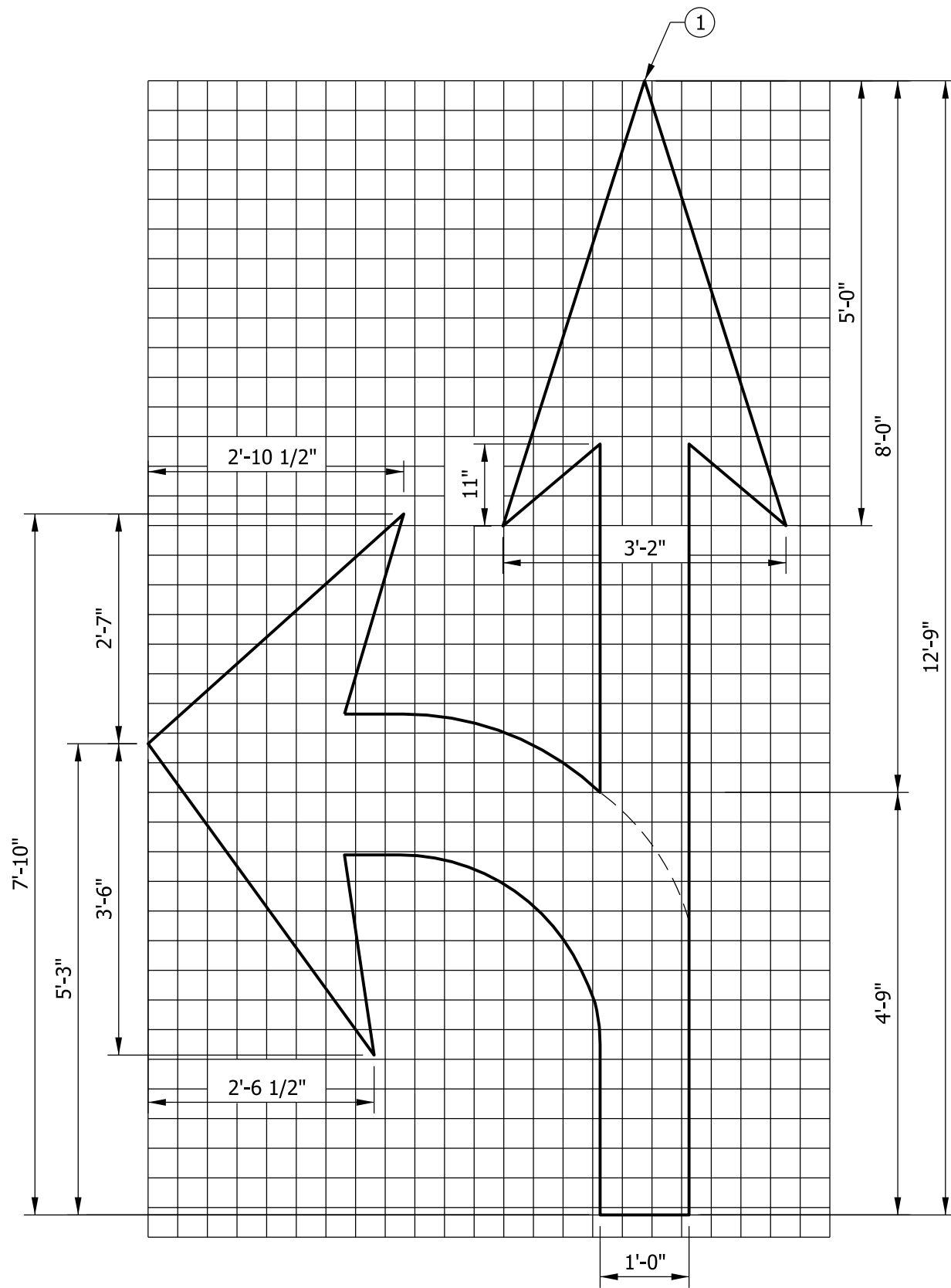
NOTES:

1. Each roundabout traffic arrow pavement marking shall be centered in the travel lane.
2. The grid lines are 4 in. apart.

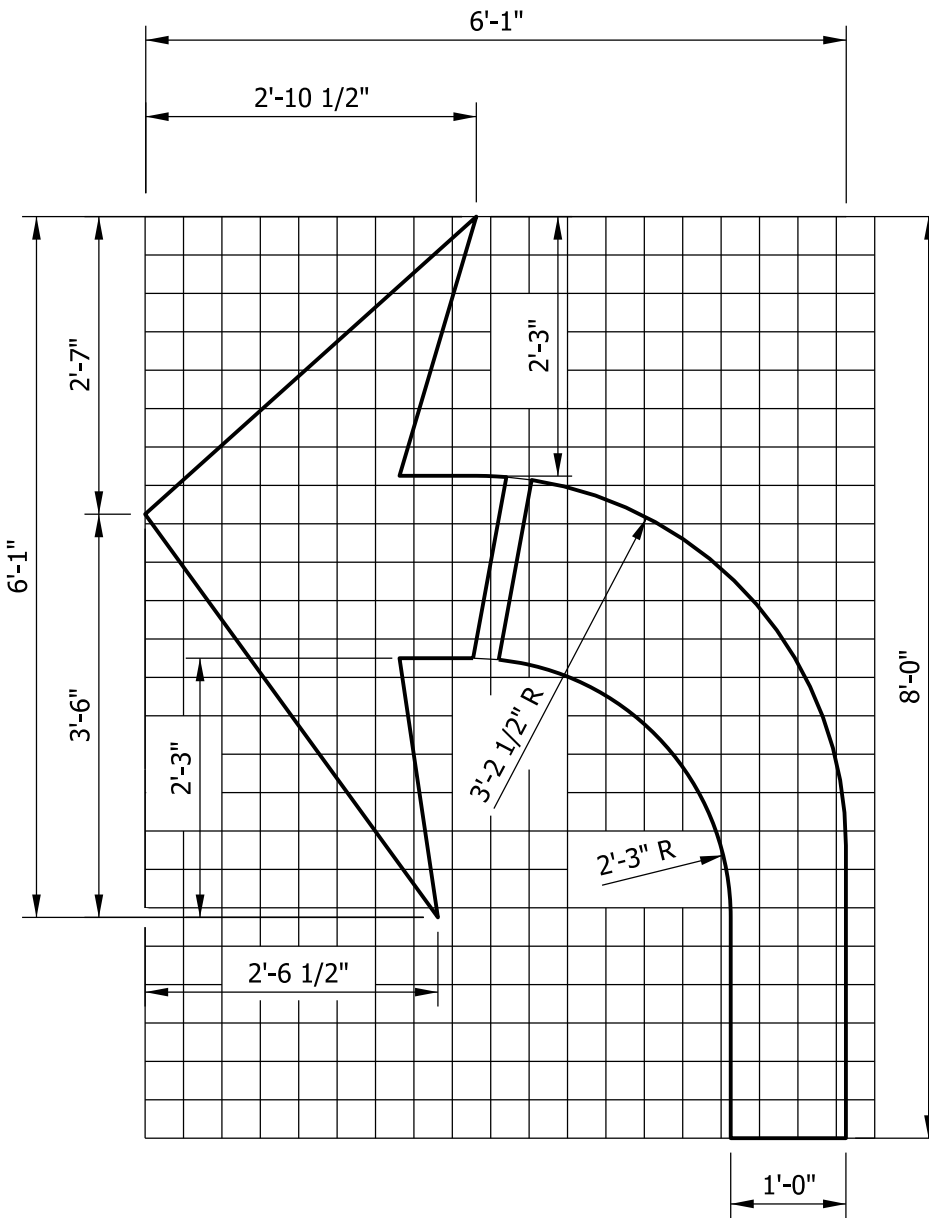
ROUNDABOUT TRAFFIC ARROWS WITH QUANTITIES



INDIANA DEPARTMENT OF TRANSPORTATION									
PAVEMENT MARKINGS ROUNDABOUT TRAFFIC ARROWS									
SEPTEMBER 2015									
STANDARD DRAWING NO.	E 808-MKPM-01								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; padding: 2px;">/s/ David H. Boruff</td> <td style="border-bottom: 1px solid black; padding: 2px;">03/04/15</td> </tr> <tr> <td style="padding: 2px;">DESIGN STANDARDS ENGINEER</td> <td style="padding: 2px;">DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding: 2px;">/s/ Mark A. Miller</td> <td style="border-bottom: 1px solid black; padding: 2px;">03/06/15</td> </tr> <tr> <td style="padding: 2px;">CHIEF ENGINEER</td> <td style="padding: 2px;">DATE</td> </tr> </table>	/s/ David H. Boruff	03/04/15	DESIGN STANDARDS ENGINEER	DATE	/s/ Mark A. Miller	03/06/15	CHIEF ENGINEER	DATE
/s/ David H. Boruff	03/04/15								
DESIGN STANDARDS ENGINEER	DATE								
/s/ Mark A. Miller	03/06/15								
CHIEF ENGINEER	DATE								



LEFT/THRU ARROW ③



LEFT ONLY ARROW ③

NOTES:

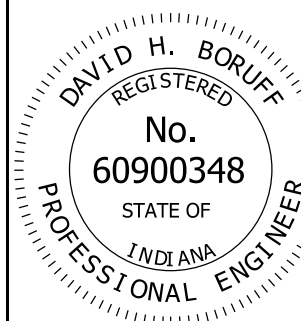
- ① The tip of the lane indication arrow closest to the stop line shall be 20 ft in advance of the nearest edge of the stop line.
- 2. The grid lines are 4 in. apart.
- ③ Reverse the dimensions of the left arrow for a right/thru or right only arrow.

INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS
TURN ARROWS

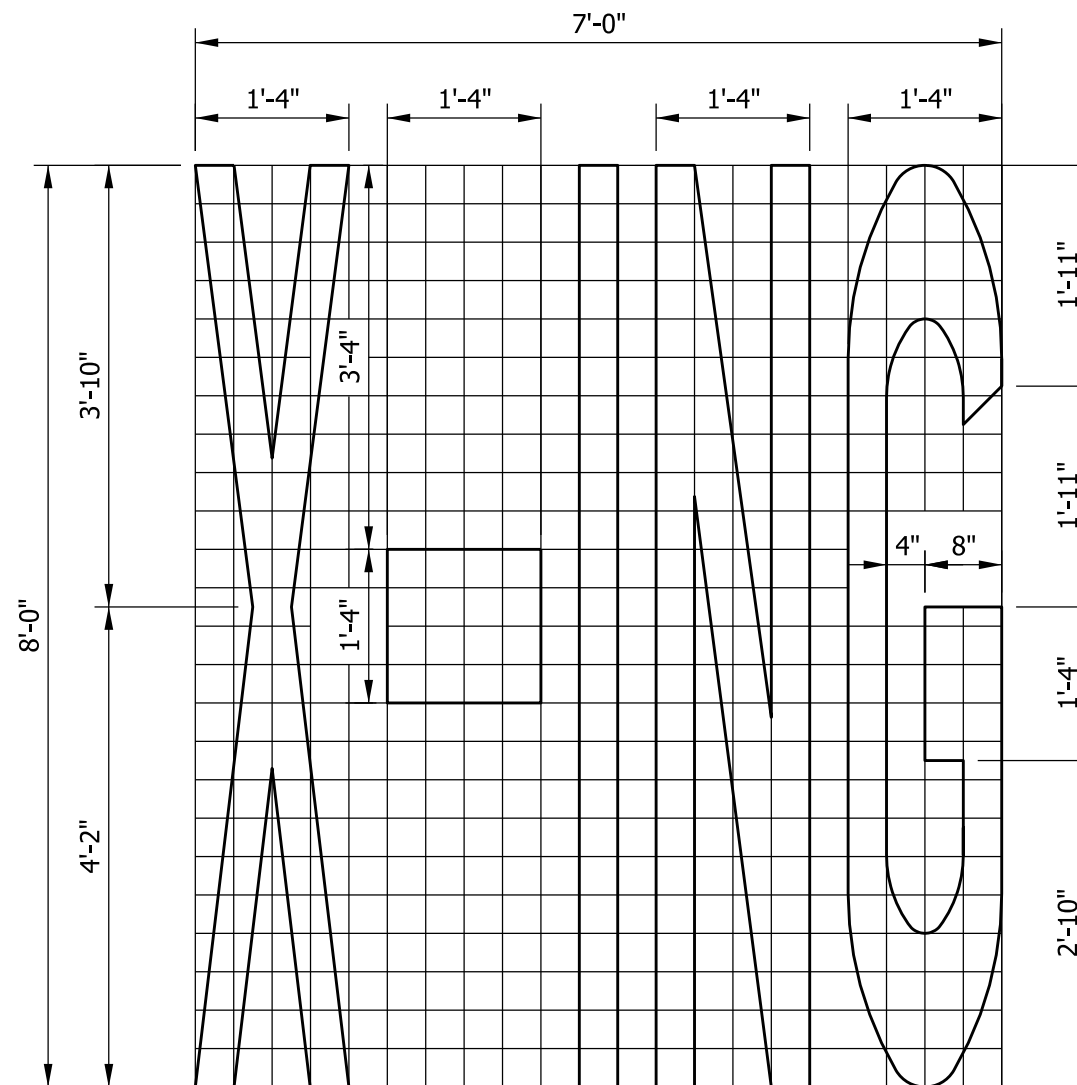
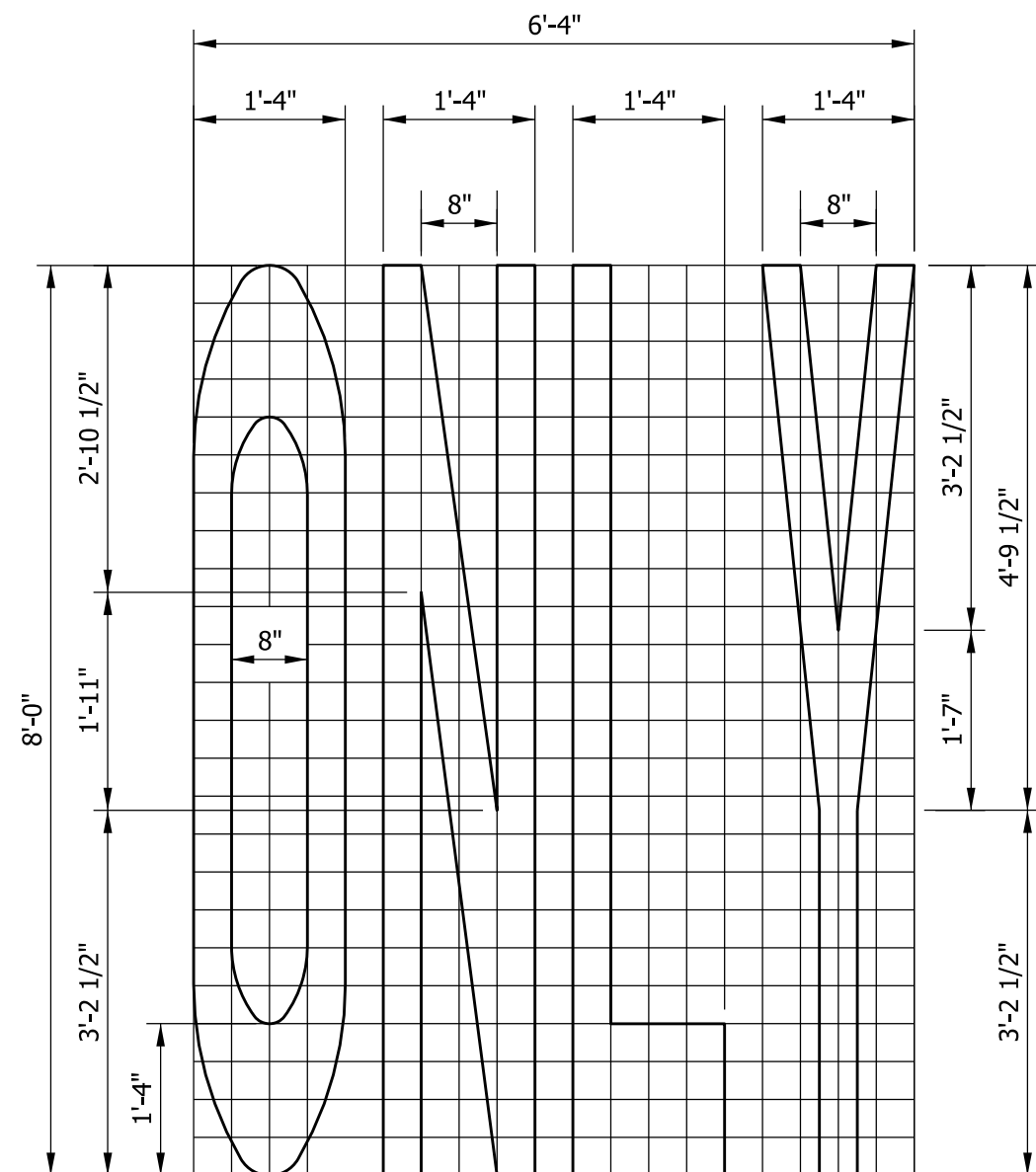
SEPTEMBER 2015

STANDARD DRAWING NO. E 808-MKPM-02



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

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



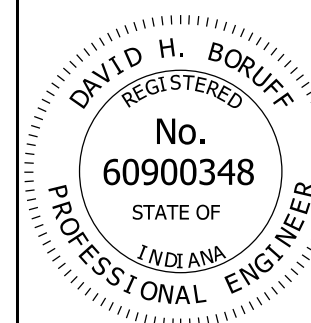
NOTES:

1. The top part of the word ONLY shall be placed prior to the lane indication arrow, 32 ft for posted speeds ≤ 45 mph but not more than 80 ft for posted speeds > 45 mph.
2. Each letter is 1'-4" wide. Vertical line segments within each letter are 4" wide. Spaces between vertical line segments are 4".
3. The grid lines are 4 in. apart.

INDIANA DEPARTMENT OF TRANSPORTATION

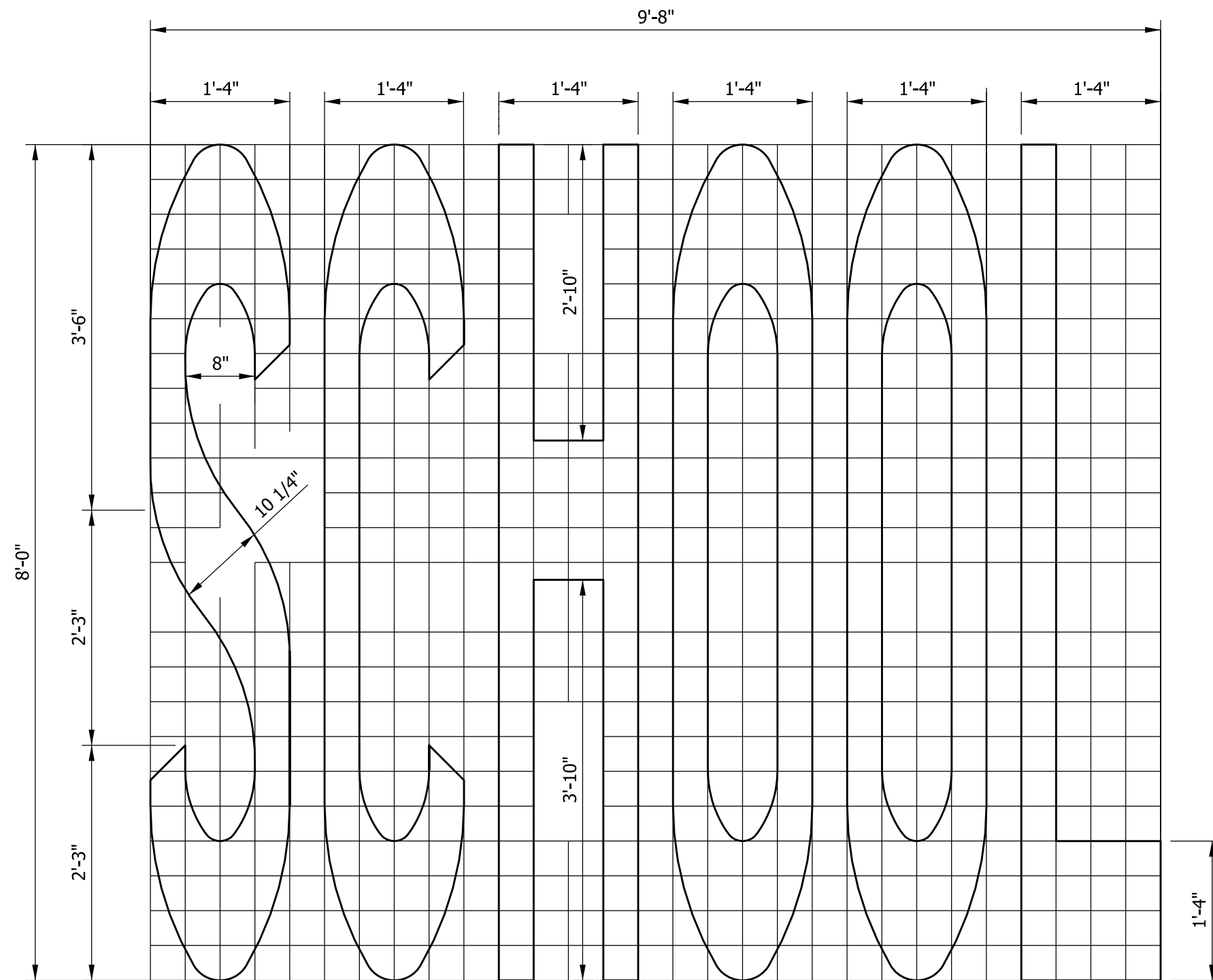
TRANSVERSE MARKINGS
WORD MESSAGES
"ONLY" AND "X-ING"
SEPTEMBER 2015

STANDARD DRAWING NO. E 808-MKPM-03



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

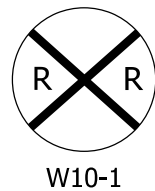
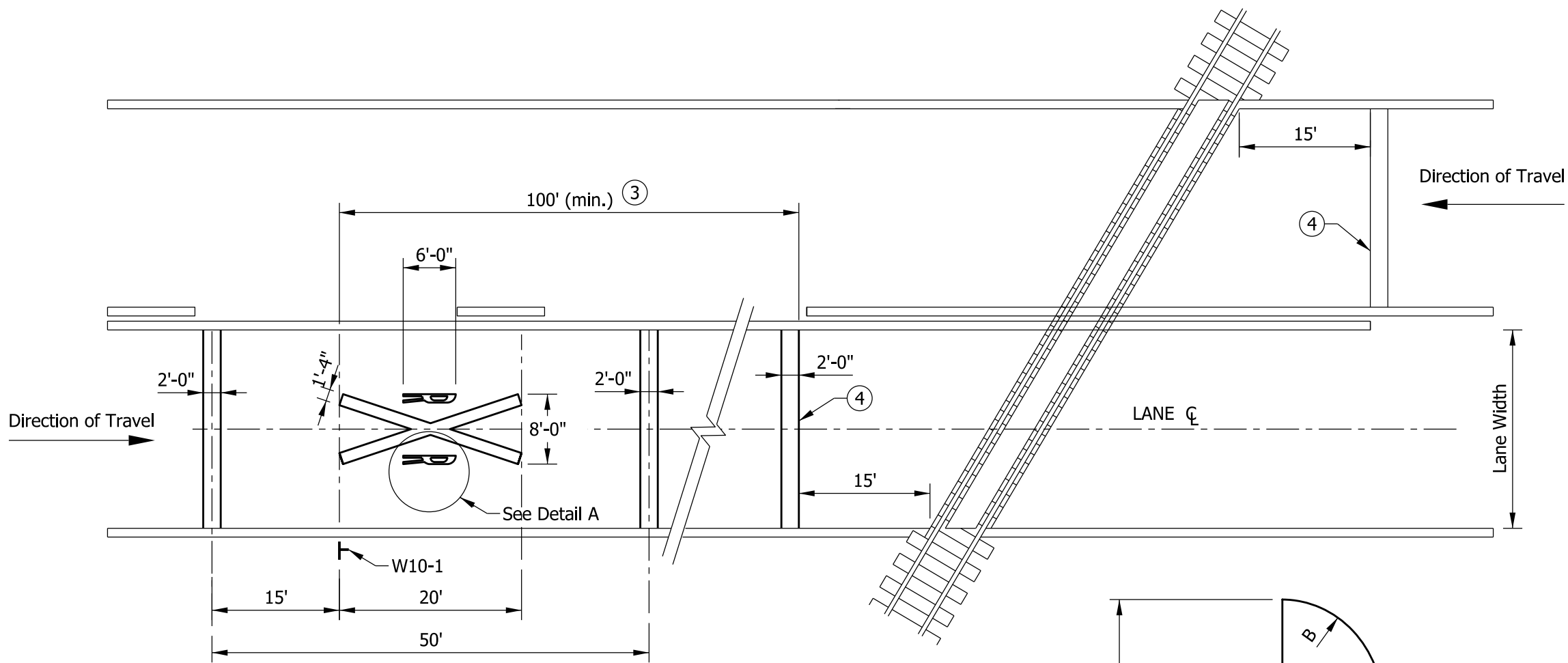
/s/ Mark A. Miller 03/06/15
CHIEF ENGINEER DATE



NOTES:

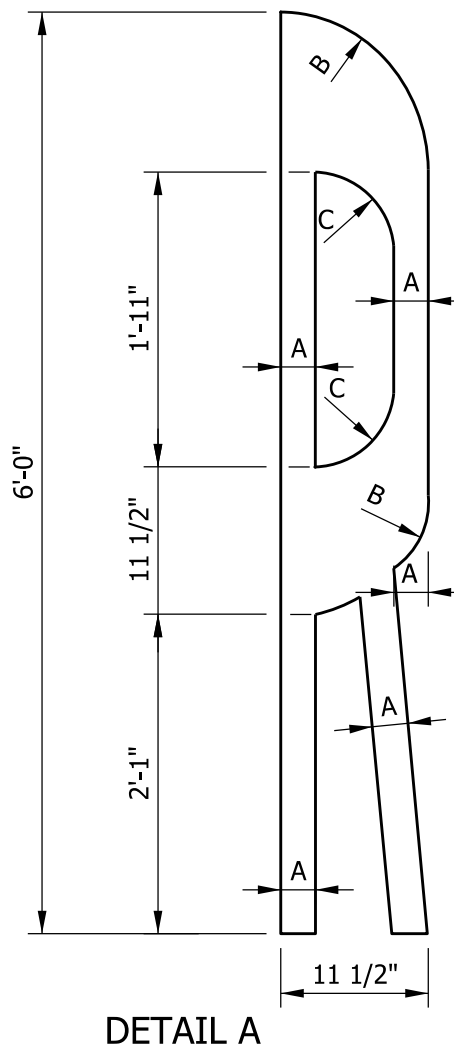
1. Each letter is 1'-4" wide. Vertical line segments within each letter are 4" wide. Spaces between vertical lines are 4".
2. Grid lines are 4 in. apart.

INDIANA DEPARTMENT OF TRANSPORTATION	
TRANSVERSE MARKINGS WORD MESSAGE "SCHOOL" SEPTEMBER 2015	
STANDARD DRAWING NO.	E 808-MKPM-04
	<i>/s/ David H. Boruff</i> 03/04/15 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Mark A. Miller</i> 03/06/15 CHIEF ENGINEER DATE



ADVANCE PLACEMENT DISTANCE (3)	
DESIGN SPEED (MPH)	DISTANCE (FT)
30	100
35	100
40	125
45	175
50	250
55	325
60	400

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



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 transverse 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).

INDIANA DEPARTMENT OF TRANSPORTATION

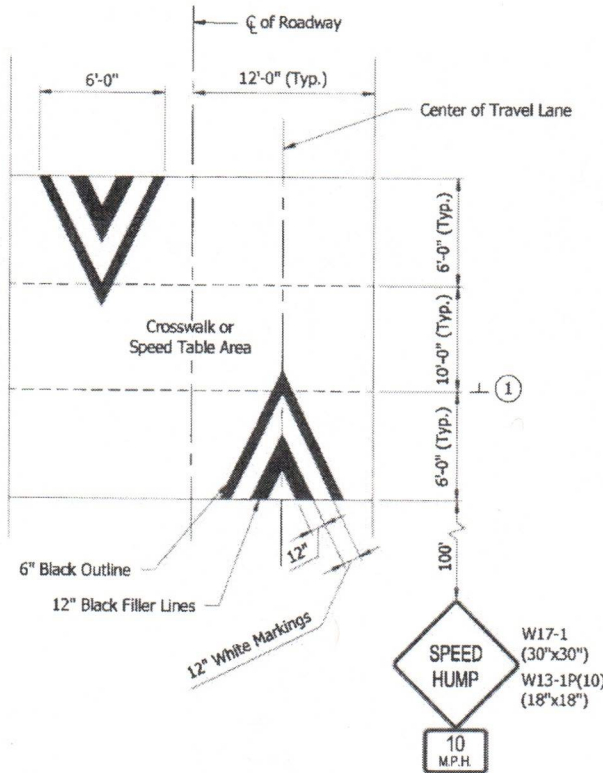
TRANSVERSE MARKINGS
RAILROAD CROSSINGS

SEPTEMBER 2015

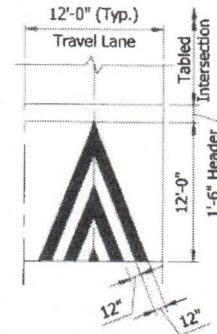
STANDARD DRAWING NO. E 808-MKPM-06

	/s/ David H. Boruff	03/04/15
	DESIGN STANDARDS ENGINEER	DATE
	/s/ Mark A. Miller	03/06/15
	CHIEF ENGINEER	DATE

SECTION 6 - TRAFFIC AND LIGHTING



SPEED HUMP MARKINGS



RAISED CROSSWALK MARKINGS



NOTES:

1. Markings shall provide sufficient contrast with the pavement.
2. Asphalt pavement shall use paint or thermoplastic and concrete pavement shall be multi-component.
3. Warning signage shall be provided for opposing traffic in addition to signage shown.
4. See Standard Drawings 2-43, 2-44, and 2-45 for Speed Hump and Tabled Intersection details.

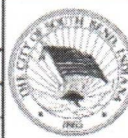
REF STD SPEC SEC 6-5

APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS
EFFECTIVE DATE: June 26, 2018

KARA M. BOYLES
REGISTERED
No. PE10809510
STATE OF INDIANA
PROFESSIONAL ENGINEER

Kara M. Boyles
Kara M. Boyles, Ph.D., P.E. 6/26/18
Date

Item	Revision	Approved Date
1.	Speed Hump Dimensions Modified	7/28/20



CITY OF SOUTH BEND

STANDARDS FOR DESIGN
AND CONSTRUCTION

MARKINGS - SPEED HUMP AND RAISED CROSSWALK

STANDARD
6-16