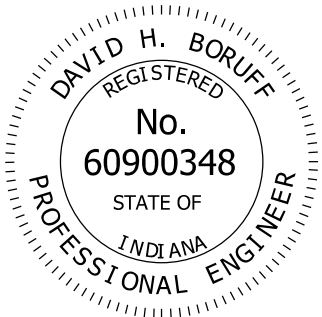


INDEX	
SHEET NO.	SUBJECT
1	Signs Drawing Index and General Notes
2	Route Marker Details, Sheilds and Auxillary Signs
3	Route Marker Details, Arrow and Cardinal Direction Signs
4	Sign Reflectorization Schedule
5	Sign Reflectorization Schedule
6	Miscellaneous Sign Details
7	Steel Sign Posts, Selection 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. Numerals 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	
SIGNSDRAWING INDEX AND GENERAL NOTES SEPTEMBER 2017	
STANDARD DRAWING NO. E 802-SNGS-01	
	/s/ David H. Boruff03/16/17 DESIGN STANDARDS ENGINEERDATE /s/ John Leckie04/10/17 CHIEF ENGINEERDATE



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:

- All series M(S) "JCT", "TO", "TRUCK", and "END" shall be white background with black legend and border.
- All series M(I) "JCT", "TO", "TRUCK", and "END" shall be blue background with white legend and border.
- 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

DESIGN STANDARDS ENGINEER

03/16/17

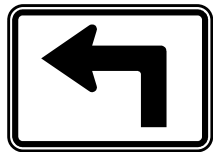
DATE

/s/ John Leckie

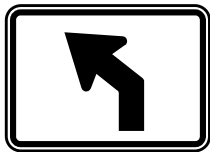
CHIEF ENGINEER

04/10/17

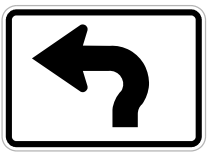
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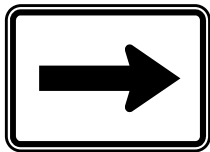
M5-1 (R or L) (I or S)



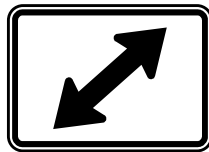
M5-2 (R or L) (I or S)



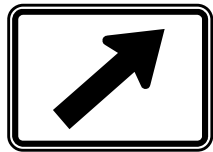
M5-3 (R or L) (I or S)



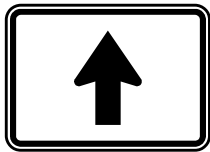
M6-1 (R or L) (I or S)



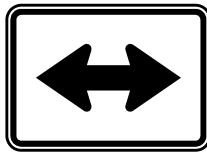
M6-5 (R or L) (I or S)



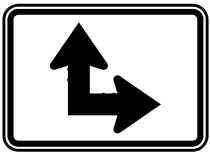
M6-2 (R or L) (I or S)



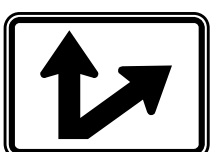
M6-3 (I or S)



M6-4 (I or S)



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



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

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"	



M3-1
(S or I)



M3-2
(S or I)



M3-3
(S or I)



M3-4
(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"

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.

INDIANA DEPARTMENT OF TRANSPORTATION

ROUTE MARKER DETAILS
ARROW AND CARDINAL DIRECTION SIGNS
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-03

/s/ David H. Boruff

03/16/17

DESIGN STANDARDS ENGINEER

DATE

/s/ John Leckie

04/10/17

CHIEF ENGINEER

DATE

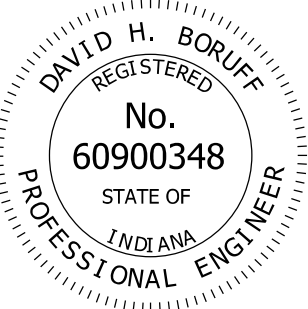
SIGN	REMARKS	BACKGROUND	COPY & BORDER
IGD, GD	Directional	S-3-H	B
IGDO, GD	Directional	S-3-H	B
IGI	Information	S-3-H	B
IGS	Services	S-4-H	B
IGS	Services	S-6-H	S-2-H
IGDO, GDO Special - Panel	Warning Panel	S-10-H	A
R1-1	Stop	S-5-H	S-2-H
R1-2	Yield	S-2-H	S-5-H
R1-3, R1-4	4-Way, All-Way	S-5-H	S-2-H
R2-3	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, R7-201	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, 0-1-H
W3-3	Signal Ahead	S-10-H	S-5-H S-7-H, 0-1-H
All School Warning Signs		S-11-H	0-1-H
All other warning signs	Except Construction Signs, School Warning Signs	S-10-H	0-1-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	0-1-H
M1-5	State Shields	S-2-H	0-1-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 2017	
STANDARD DRAWING NO. E 802-SNGS-04	
	/s/ David H. Boruff03/16/17 DESIGN STANDARDS ENGINEERDATE /s/ John Leckie04/10/17 CHIEF ENGINEERDATE

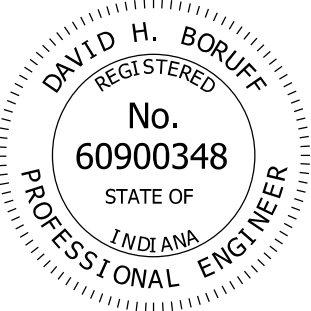
SIGN	REMARKS	BACKGROUND	COPY & BORDER
M2-1 (I), M3-1 (I), M3-2 (I), M3-3 (I), M3-4 (I)	Auxiliary Markers	S-6-H	S-2-H
M4-5 (I), M4-7 (I), M5-1 (I), M5-2 (I)	Auxiliary Markers	S-6-H	S-2-H
M6-1 Through M6-7	Auxiliary Markers	S-6-H	S-2-H
M4-5, M4-6, M4-6a	Auxiliary Markers	S-7-H	S-2-H
M4-8, M4-9	Detour Marker	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

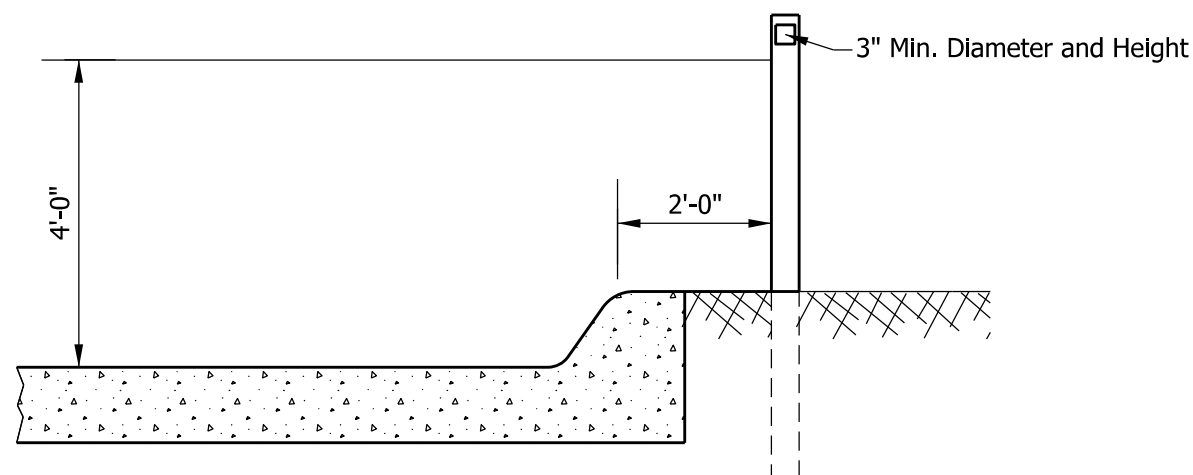
BACKGROUND, COPY AND BORDER KEY

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

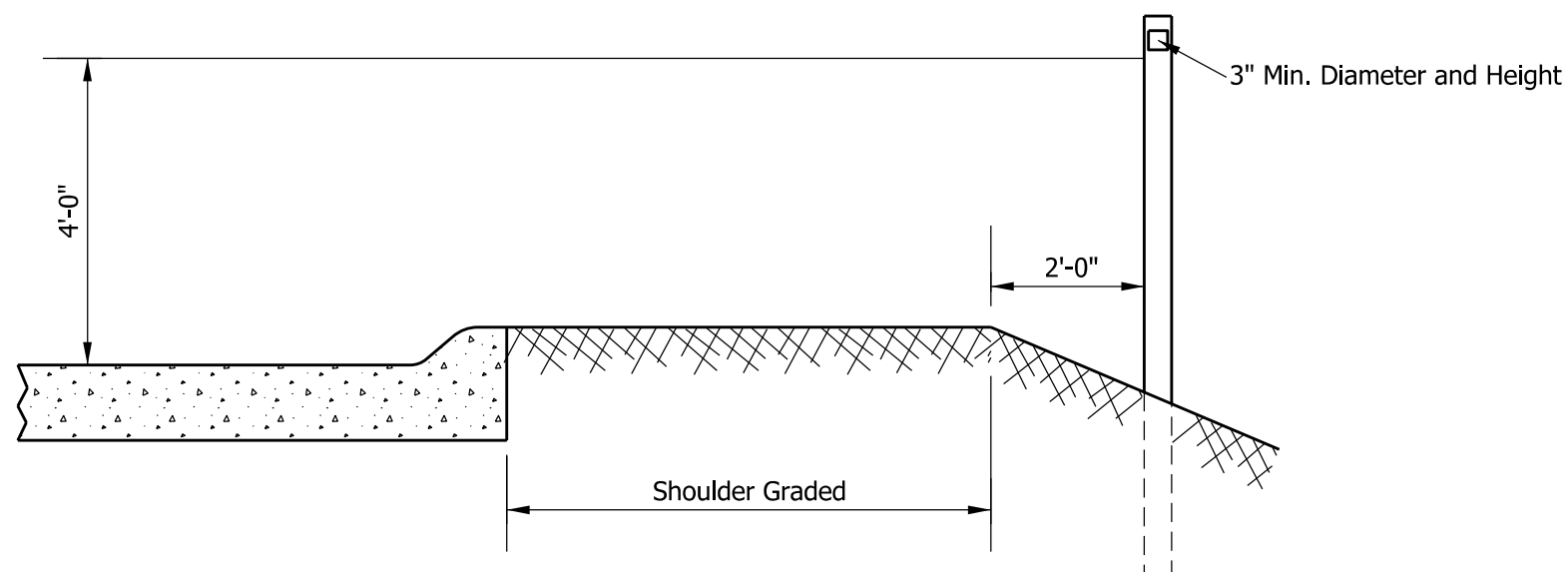
SIGN IDENTIFICATION CODES

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

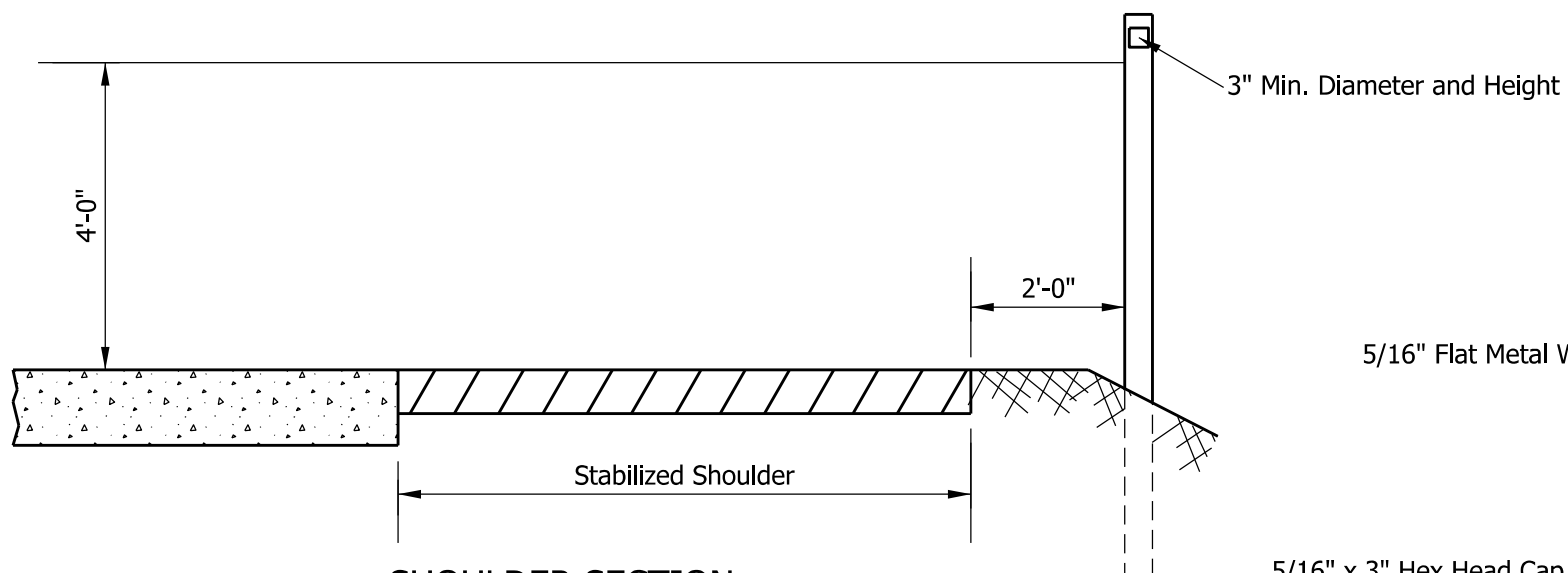
INDIANA DEPARTMENT OF TRANSPORTATION									
SIGN REFLECTORIZATION SCHEDULE									
SEPTEMBER 2017									
STANDARD DRAWING NO. E 802-SNGS-05									
	<table><tr><td><i>/s/ David H. Boruff</i></td><td><i>03/16/17</i></td></tr><tr><td>DESIGN STANDARDS ENGINEER</td><td>DATE</td></tr><tr><td><i>/s/ John Leckie</i></td><td><i>04/10/17</i></td></tr><tr><td>CHIEF ENGINEER</td><td>DATE</td></tr></table>	<i>/s/ David H. Boruff</i>	<i>03/16/17</i>	DESIGN STANDARDS ENGINEER	DATE	<i>/s/ John Leckie</i>	<i>04/10/17</i>	CHIEF ENGINEER	DATE
<i>/s/ David H. Boruff</i>	<i>03/16/17</i>								
DESIGN STANDARDS ENGINEER	DATE								
<i>/s/ John Leckie</i>	<i>04/10/17</i>								
CHIEF ENGINEER	DATE								



CURB SECTION

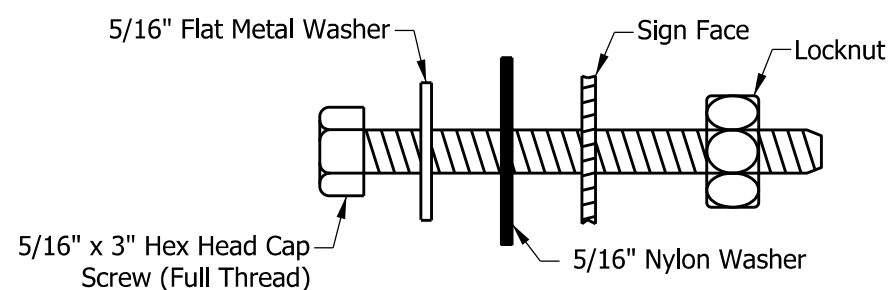


SLOPING CURB SECTION

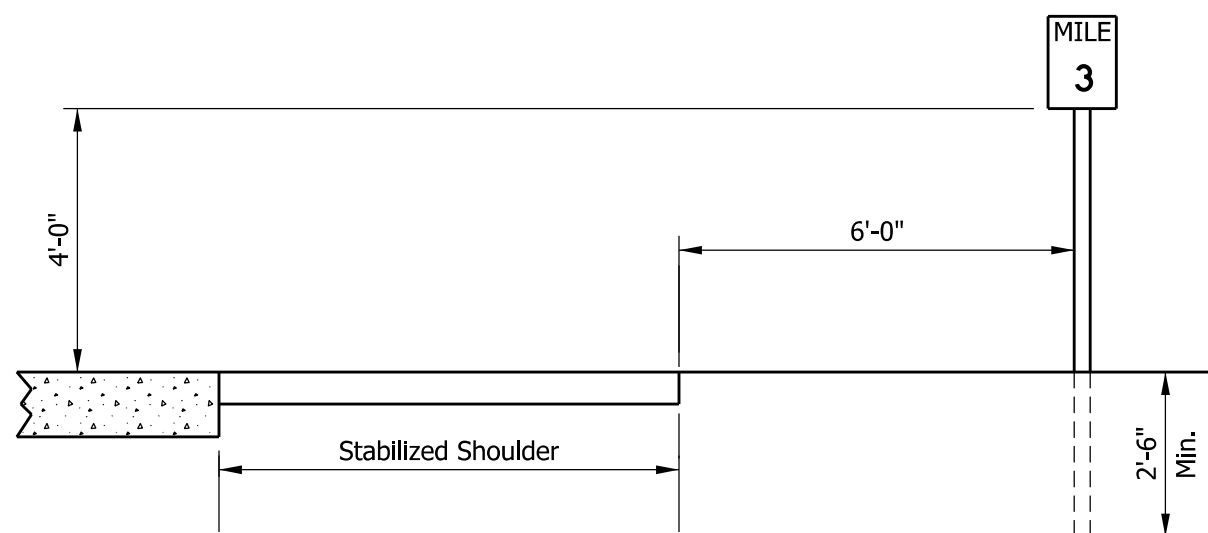


SHOULDER SECTION

DELINEATOR DETAILS ②



SIGN BOLT DETAIL



TYPICAL MILE OR REFERENCE POST ①

NOTES:

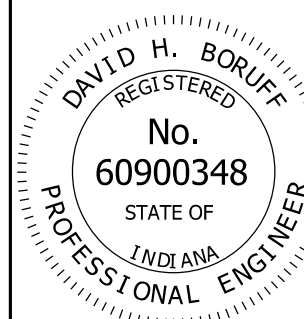
- ① Mileposts shall be installed in accordance with MUTCD.
- ② Delineator models shall be selected from the INDOT Approved Materials List.
3. Signs shall be fastened to the posts with bolts, metal and nylon washers and locknut. The nylon washer and the metal washer shall be placed between each bolt head 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.

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS SIGN DETAILS

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-06

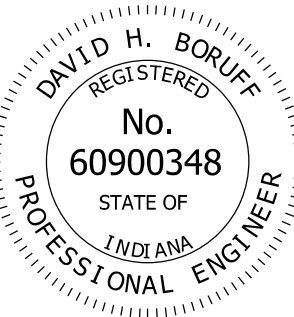


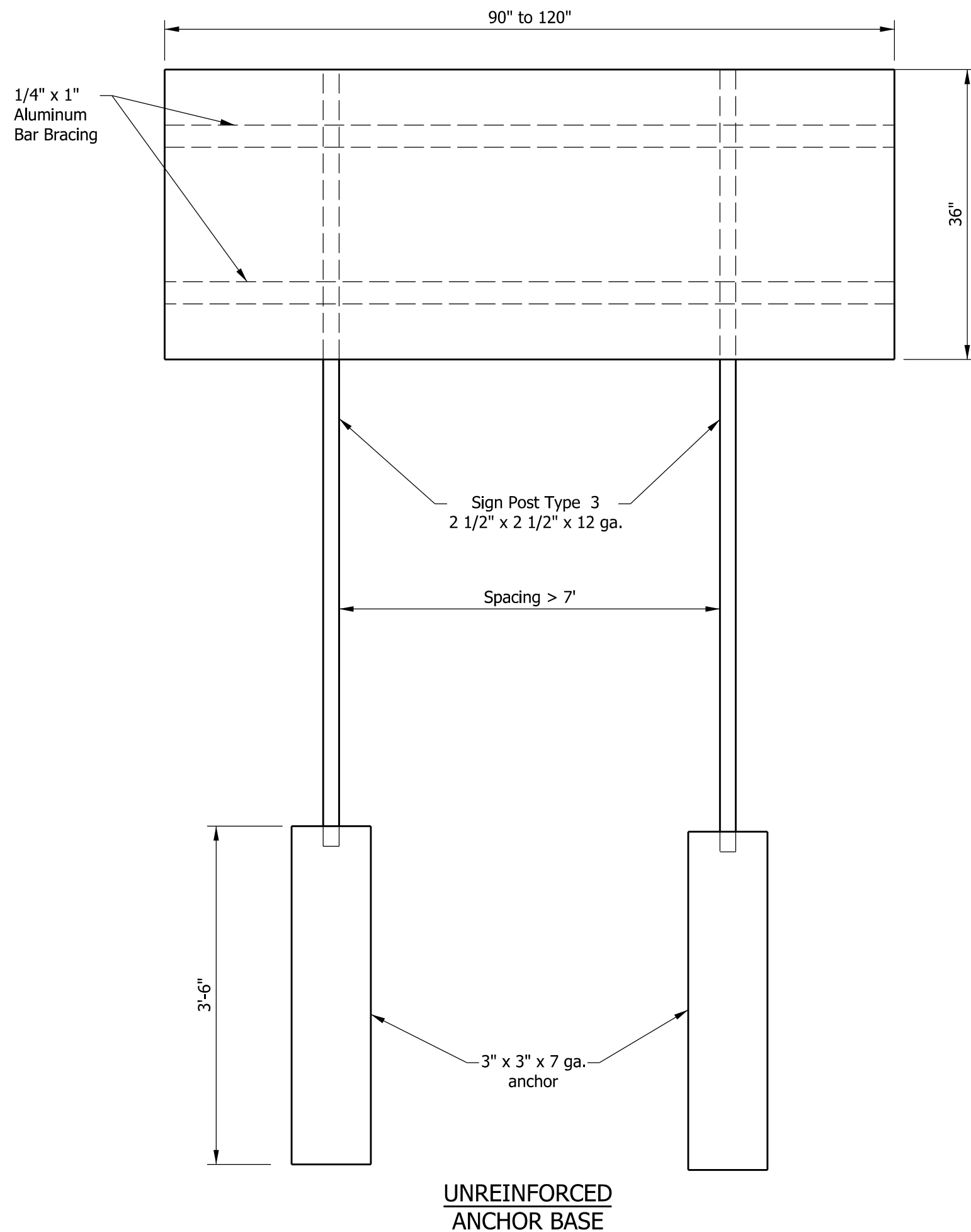
/s/ David H. Boruff 03/16/17
DESIGN STANDARDS ENGINEER DATE

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

MOUNTING HEIGHT								
WIDTH X HEIGHT ("W X H")	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

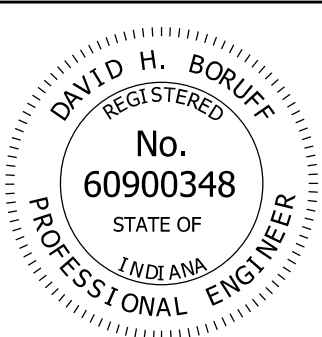
- NOTES:**
- 1. See Standard Drawing E 802-SNGS-08 and -09 for square steel sign post installation details.
 - 2. The Type 1 post shall be 2 1/4 in. x 2 1/4 in. x 12 ga. wall thickness.
 - 3. The Type 2 post shall be 2 in. x 2 in. x 12 ga. wall thickness.
 - 4. The Type 3 post shall be 2 1/2 in. x 2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

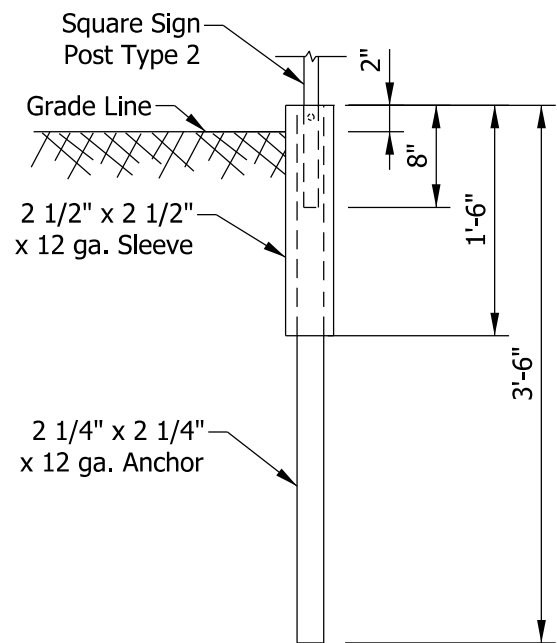
INDIANA DEPARTMENT OF TRANSPORTATION	
STEEL SIGN POST SELECTION TABLE SEPTEMBER 2017	
STANDARD DRAWING NO. E 802-SNGS-07	
	/s/ <i>David H. Boruff</i> 03/16/17 DESIGN STANDARDS ENGINEER DATE /s/ <i>John Leckie</i> 04/10/17 CHIEF ENGINEER DATE



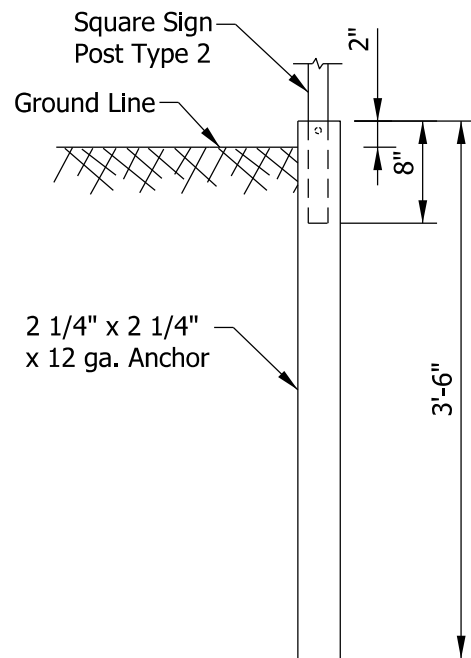
NOTES:

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

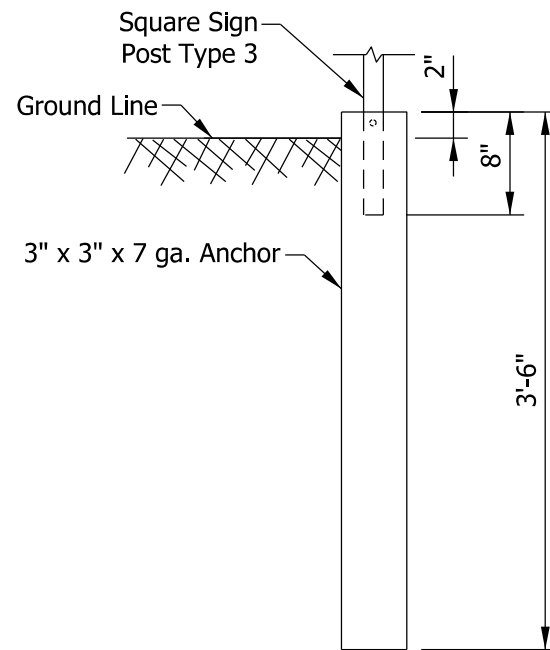
INDIANA DEPARTMENT OF TRANSPORTATION		
STEEL SIGN POSTS BRACING FOR SIGNS GREATER THAN 90"		
SEPTEMBER 2017		
STANDARD DRAWING NO.		E 802-SNGS-08
		
	<u>/s/ David H. Boruff</u>	<u>03/16/17</u>
	DESIGN STANDARDS ENGINEER	DATE
	<u>/s/ John Leckie</u>	<u>04/10/17</u>
	CHIEF ENGINEER	DATE



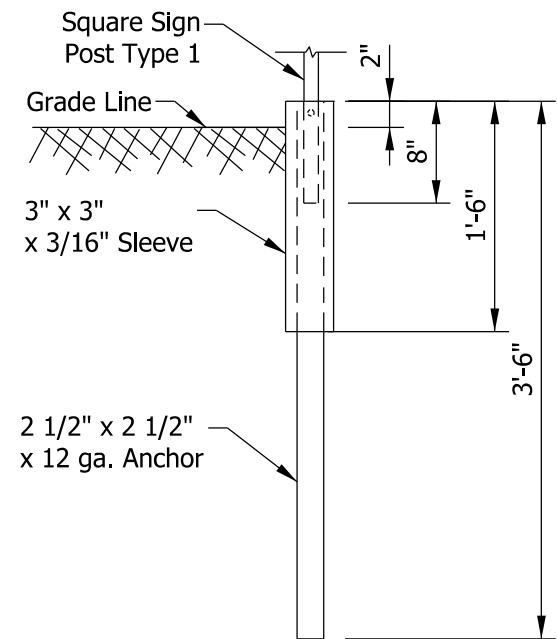
REINFORCED ANCHOR BASE



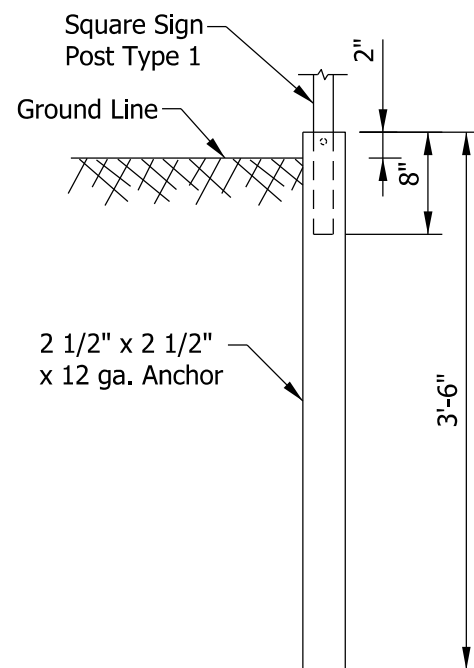
UNREINFORCED ANCHOR BASE



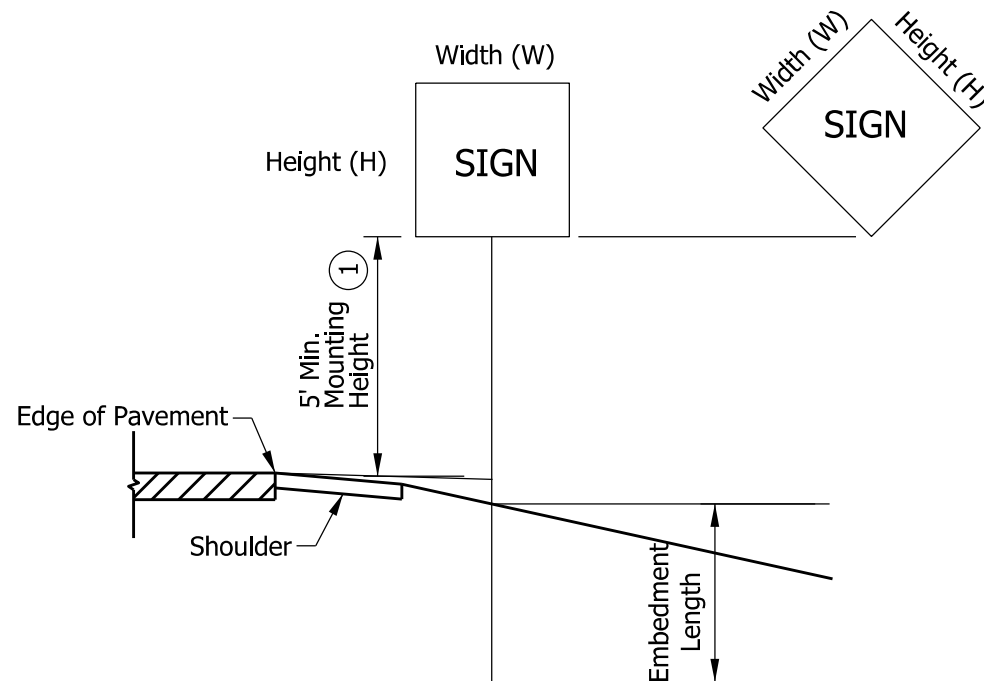
UNREINFORCED ANCHOR BASE



REINFORCED 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.

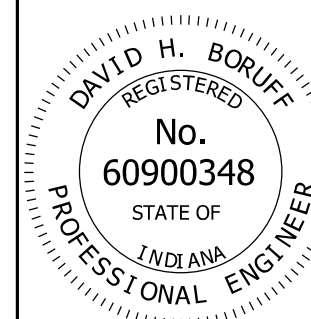
POST	TYPE	WALL THICKNESS	NO. OF POSTS PERMITTED IN 7 ft PATH	EMBEDMENT LENGTH
U-CHANNEL	A, B		1 OR 2	3'-6"
SQUARE	1	12 ga.	1	Anchor Base
	2	12 ga.	1 OR 2	
	3	12 ga.	1	

INDIANA DEPARTMENT OF TRANSPORTATION

**STEEL SIGN POSTS
ANCHOR BASE DETAILS**

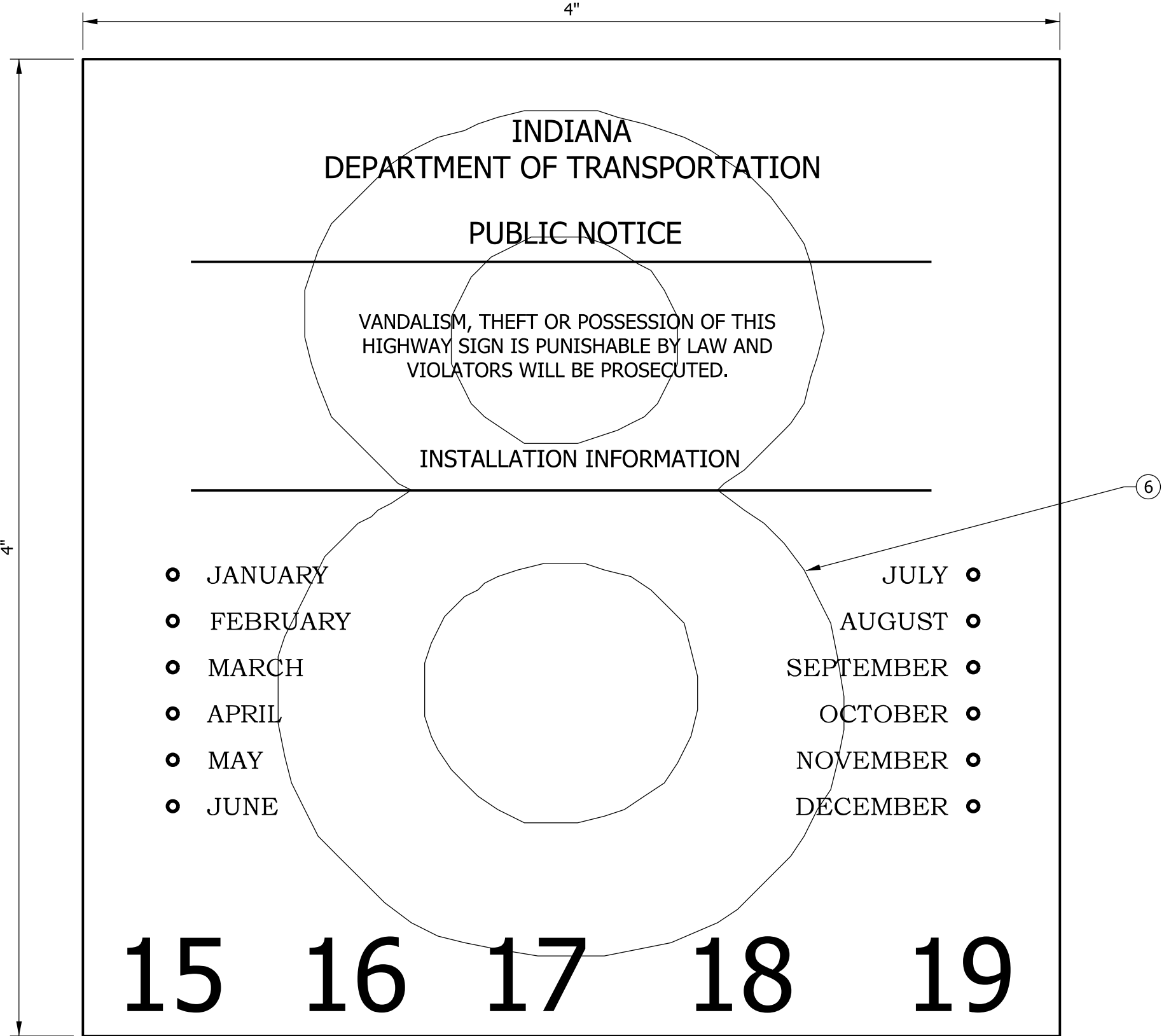
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-09



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

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



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. 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:

2010 - 2019 Red
2020 - 2029 Brown
2030 - 2039 Orange

INDIANA DEPARTMENT OF TRANSPORTATION			
SIGN IDENTIFICATION MARKING			
SEPTEMBER 2017			
STANDARD DRAWING NO.		E 802-SNGS-10	
	<i>/s/ David H. Boruff</i>		03/16/17
	DESIGN STANDARDS ENGINEER		DATE
	<i>/s/ John Leckie</i>		04/10/17
	CHIEF ENGINEER		DATE