STRUCTURAL SIGN DATA

DESIGNATION	COLOR SCHEME		SHEETING	
DESTGNATION	LEGEND	BACKGROUND	LEGEND	BACKGROUND
STRUCTURAL (ST)	BLACK	WHITE	OPAQUE BLACK FILM	ASTM TYPE 4
STRUCTURAL (ST)	WHITE	RED	ASTM TYPE 9 OR 11	ASTM TYPE 4
	WHITE	GREEN	ASTM TYPE 9 OR 11	ASTM TYPE 4
	WHITE	BLUE	ASTM TYPE 9 OR 11	ASTM TYPE 4
	WHITE	BROWN	ASTM TYPE 9 OR 11	ASTM TYPE 4
STRUCTURAL FLUORESCENT (STE)	BLACK	FL YELLOW	OPAQUE BLACK FILM	ASTM TYPE 9 OR 11
SINUCIUNAL FLUURESCENT (SIF)	BLACK	FL YELLOW GREEN	OPAQUE BLACK FILM	ASTM TYPE 9 OR 11
	BLACK	FL ORANGE	OPAQUE BLACK FILM	ASTM TYPE 9 OR 11

NOTE: WHITE LEGEND IS DIRECT APPLIED UNLESS SPECIFIED OTHERWISE.

FLAT SHEET SIGN DATA

DESIGNATION	COLOR SCHEME		SHEETING	
DESIGNATION	LEGEND	BACKGROUND	SHEETING	
FLAT SHEET (SH)	BLACK **	WHITE	ASTM TYPE 4 WHITE	
PLAT SHEET (SH)	WHITE	BLACK **	ASTM TYPE 4 WHITE	
	RED	WHITE	ASTM TYPE 4 WHITE	
	WHITE	RED	ASTM TYPE 4 WHITE	
	WHITE	GREEN	ASTM TYPE 4 WHITE	
	GREEN	WHITE	ASTM TYPE 4 WHITE	
	WHITE	BLUE	ASTM TYPE 4 WHITE	
	WHITE	BROWN	ASTM TYPE 4 WHITE	
FLAT SHEET FLUORESCENT (SHF)	BLACK **	FL YELLOW	ASTM TYPE 9 OR 11 FL YELLOW	
FLAT SHEET FLOURESCENT (SHF)	BLACK **	FL YELLOW GREEN	ASTM TYPE 9 OR 11 FL YELLOW GREEN	
	BLACK **	FL ORANGE	ASTM TYPE 9 OR 11 FL ORANGE	

** OPAQUE INK OR FILM

NOTE: LEGEND AND BACKGROUND COLORS ARE ACHIEVED THROUGH TRANSLUCENT INKS AND FILMS.

FLAT SHEET T	HICKNESS
SIGN SIZE	THICKNESS
9 SF OR LESS	0.080 IN.
OVER 9 SF TO 16 SF	0.100 IN.
16 SF OR LARGER	0.125 IN.

GENERAL NOTES:

GROUND MOUNTED SIGNS GREATER THAN 5 FEET WIDE OR SIGNS GREATER THAN 30 SQUARE FEET SHALL BE STRUCTURAL.

ALL NON STANDARD SIGNS NOT FOUND IN THE MUTCD SHS MANUAL SHALL BE DETAILED BY THE TRAFFIC AND HIGHWAY SAFETY DIVISION OFFICE.

REFER TO STANDARD SPECIFICATION SEC 1042 FOR SHEETING, SUBSTRATE AND FABRICATION DETAILS.

FOR MOUNTING DETAILS, SEE STANDARD PLANS 903.02.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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HIGHWAY SIGNING

GENERAL SIGN DATA

DATE EFFECTIVE: 10/01/2019 DATE PREPARED: 7/18/2019

903.02AP

SHEET NO. 1 OF 8

MODOT ID LABEL DETAILS

PLACED ON THE SIGN FACE

WARNING

UP TO \$1,000 FINE AND 1 YEAR IMPRISONMENT FOR REMOVING OR TAMPERING WITH THIS SIGN

(1) USED ON SIGNS 9 SF AND LARGER



(1) USED ON SIGNS LESS THAN 9 SF

VENDOR ID LABEL DETAILS

PLACED ON THE BACK OF THE SIGN

ACME SIGN COMPANY MIDWEST, US 55555 (800) 555-5555 SIGN FABRICATION DATE: JUNE 8, 2016

OPTIONAL

ACME SIGN COMPANY MIDWEST. US 55555 (800) 555-5555 SIGN FABRICATION DATE 2 3 4 5 🜑 7 8 9 10 11 12 4 " (2)

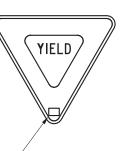
OPTIONAL



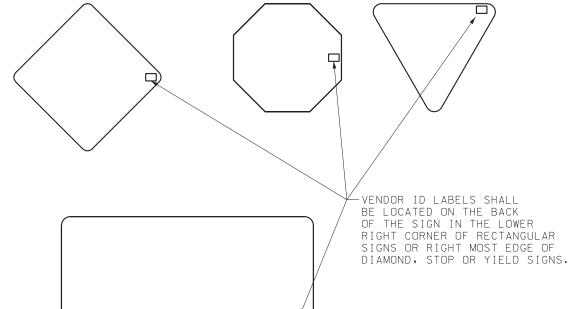
SIGN FABRICATION DATE: JUNE 8, 2016

> 4 " (3)





MODOT ID LABELS SHALL BE LOCATED AT THE BOTTOM RIGHT CORNER OF ANY RECTANGULAR SIGN, IN THE BOTTOM POINT OF A DIAMOND OR YIELD SIGN AND AT THE LOWER RIGHT CORNER OF A STOP SIGN IN CLOSE PROXIMITY TO THE SIGN BORDER. AVOID BOLT HOLE LOCATIONS. (4)



(1) MODOT ID LABEL DETAILS AVAILABLE FROM TRAFFIC AND HIGHWAY SAFETY DIVISION.

(2) TO FACILITATE MASS PRODUCTION OF LABELS, THE FABRICATION DATE MAY BE INDICATED BY DISPLAYING NUMBERS FOR MONTHS ALONG THE BOTTOM OF THE LABEL AND NUMBERS FOR YEARS ALONG THE RIGHT SIDE OF THE LABEL. THE FABRICATION DATE WOULD BE INDICATED BY HOLE PUNCHING THE APPROPRIATE NUMBERS (OR SOME EQUIVALENT PERMANENT METHOD TO BLOCK OUT OF THE NUMBERS) FOR THE MONTH AND YEAR BEFORE THE LABEL IS APPLIED TO

(3) INDIVIDUAL DECALS MAY BE USED TO DISPLAY THE VENDOR INFORMATION AND THE FABRICATION DATE. DECALS SHALL BE INSTALLED IN CLOSE VERTICAL PROXIMITY.

(4) THE MODOT ID LABEL MAY BE PLACED ON THE BACK OF THE SIGN ABOVE THE VENDOR ID LABEL IF THERE IS INSUFFICIENT SPACE AVAILABLE TO DISPLAY THE ID LABEL ON THE SIGN FACE WITHOUT INTERFERING WITH THE SIGN LEGEND OR BOARDER.

GENERAL NOTES:

ALL DECALS SHALL BE SILK SCREEN PRINTED WITH MATCHED COMPONENT INK AND SHEETING MATERIALS TO PROVIDE A LABEL THAT HAS AN EQUAL LIFE EXPECTANCY AS THE SIGN FACE.

MODOT ID LABELS SHALL BE PRINTED ON CLEAR ELECTROCUT FILM BACKGROUND WITH BLACK INK OR IT MAY BE INCORPORATED INTO THE SILK SCREEN DETAIL AND PRINTED ALONG WITH THE SIGN FACE. IF THE LABEL IS APPLIED IN THIS MANNER THE LEGEND OF THE LABEL SHALL MATCH THE COLOR OF THE SIGN LEGEND IT IS BEING APPLIED TO. THE LABEL SHALL NOT HAVE ANY BACKGROUND COLOR OR BORDER.

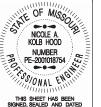
VENDOR ID LABEL SHALL CONTAIN THE COMPANY CONTACT INFORMATION (INCLUDING FULL NAME, CITY, STATE, PHONE NUMBER) AND THE SIGN FABRICATION DATE.

VENDOR ID LABEL SHALL BE PRINTED ON A WHITE BACKGROUND WITH BLACK INK AND THE LEGEND SHALL BE A MINIMUM OF 1/4".



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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HIGHWAY SIGNING

GENERAL SIGN DATA

DATE EFFECTIVE: 10/01/2019 DATE PREPARED:

7/18/2019

903.02AP

SHEET NO.

2 OF 8

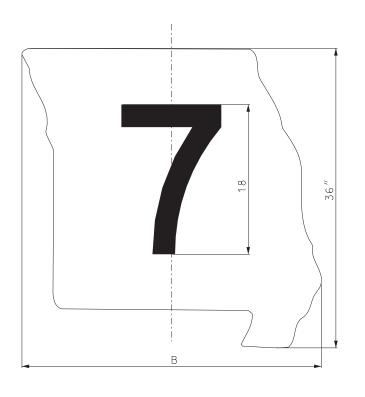
♠ Destination □ Destination **Destination** ⇒

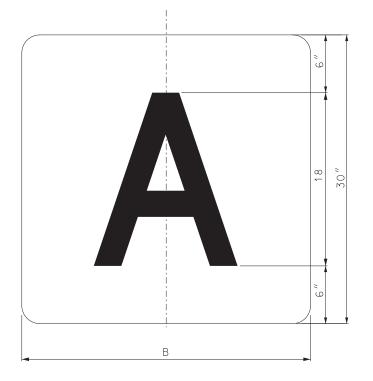
STATE NUMBER ROUTE SHIELD GUIDE SIGN USE

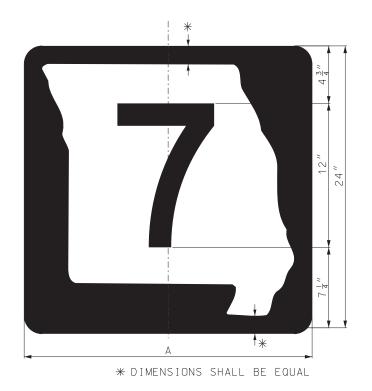
STATE LETTER ROUTE SHIELD GUIDE SIGN USE

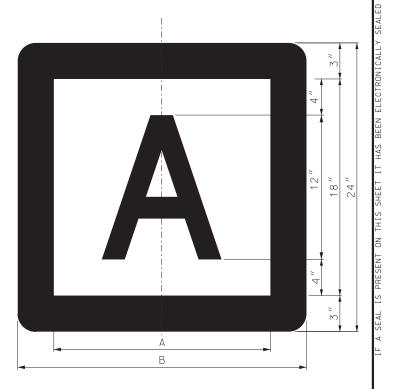
STATE NUMBER ROUTE SHIELD INDEPENDENT USE

STATE LETTER ROUTE SHIELD INDEPENDENT USE









LOCATION	NO. OF	DIMENSIONS (INCHES)		LEGEND FONTS	
	LLTTLING	А	В	1 01113	
INDEPENDENT USE	1	18	24	D	
INDEPENDENT USE	2	24	30	D	
GUIDE SIGN USE	1	_	30	D	
GUIDE SIGN USE	2	_	36	D	

STATE LETTER ROUTE SHIELD

LOCATION ROUTE		DIMENSIONS (INCHES)		LEGEN[FONTS
	NOMBLIX	А	В	1 01113
INDEPENDENT USE	1 & 2 DIGITS	24	24	D,C
INDEPENDENT USE	3 DIGITS	30	30	D,C,B
GUIDE SIGN USE	1 & 2 DIGITS	_	36	D,C
GUIDE SIGN USE	3 DIGITS	-	45	D,C,B

STATE NUMBER ROUTE SHIELD





GENERAL NOTES:

REFER TO STANDARD SPECIFICATION SEC 1042 FOR SHEETING AND SUBSTRATE DETAILS.

FOR HOLE PUNCHING AND MOUNTING DETAILS SEE OTHER DRAWINGS.

FOR GENERAL SIGN DATA DETAILS SEE OTHER DRAWINGS.

THE MISSOURI SHAPE DETAIL MAY BE OBTAINED FROM THE TRAFFIC AND HIGHWAY SAFETY DIVISION OFFICE.

GUIDE SIGN USE SHALL BE DIRECT APPLIED. POST MOUNTED USE SHALL BE APPLIED TO ALUMINUM SUBSTRATE.

FOR NUMBERED ROUTES WITH MORE THAN 1 DIGIT THE LEGEND FONT MAY NEED TO BE REDUCED TO C OR B FONT.

SEE MUTCD SHS FOR DETAILS FOR US AND INTERSTATE ROUTE SHIELDS.

NON-STANDARD SHIELD SIZES MAY BE OBTAINED FROM THE TRAFFIC AND HIGHWAY SAFETY DIVISION OFFICE.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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HIGHWAY SIGNING

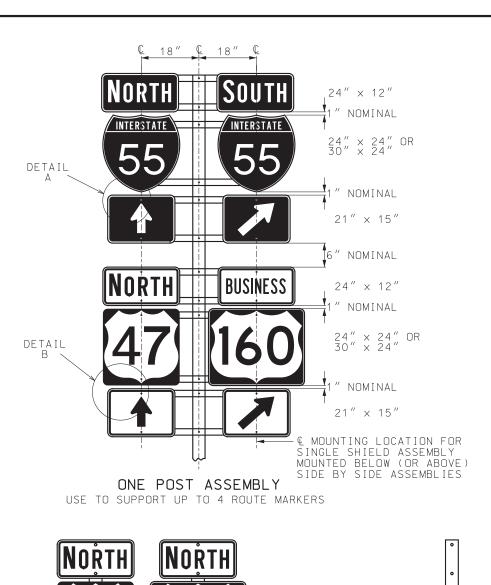
STANDARD SHIELDS FOR INDEPENDENT AND GUIDE SIGN USE

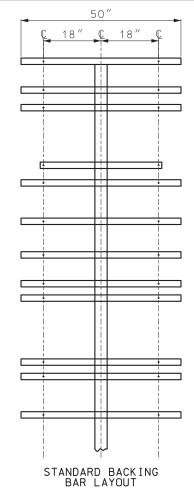
DATE PREPARED:

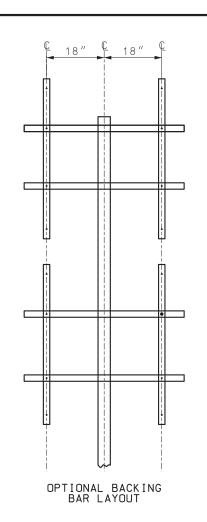
DATE EFFECTIVE: 10/01/2019 7/18/2019

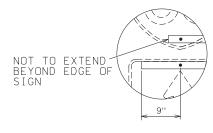
903.02AP

SHEET NO. 3 OF 8

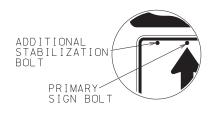








DETAIL A SEE GENERAL NOTES



DETAIL B SEE GENERAL NOTES

GENERAL NOTES:

ALL BACKING BARS SHALL BE 2"x $\frac{3}{8}$ " STEEL, GALVANIZED AFTER PUNCHING. WEIGHT = 2.55 LBS. PER FOOT. HOLES IN BARS SHALL BE $\frac{3}{8}$ " AND SHALL BE PUNCHED AS SHOWN ON THIS DRAWING.

DETAIL A - THE END OF THE HORIZONTAL BACKING BARS SHALL EXTEND MAXIMUM OF 9 INCHES PAST THE SIGN BOLT, BUT SHALL NOT EXTEND PAST THE EDGE OF THE SIGN.

DETAIL B - FOR SIGNS INSTALLED ON TWO PARALLEL HORIZONTAL BACKING BARS, ONE ADDITIONAL BOLT SHALL BE ADDED TO THE LEFT SIGN TO KEEP ASSEMBLY SQUARE.

WHEN USING OPTIONAL BACKING BAR LAYOUT, VERTICAL BARS SHALL BE MOUNTED BEHIND HORIZONTAL BARS.

BACKING BARS SHALL MEET MISSOURI STANDARD PLANS OR APPROVED PRODUCTS LIST.

BACKING BARS PAID FOR AS STRUCTURAL STEEL, PER POUND.

ALL SIGNS TO BE INSTALLED ALONG VERTICAL CENTERLINES.

FOR POST AND FOOTING DATA AND DETAILS OF SHIELDS AND PLAQUES, SEE OTHER DRAWINGS.

NOMINAL VERTICAL SPACING INDICATED BETWEEN SIGNS TO BE ACHIEVED BY USING THE CLOSEST AVAILABLE HOLES WHEN USING PSST.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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HIGHWAY SIGNING

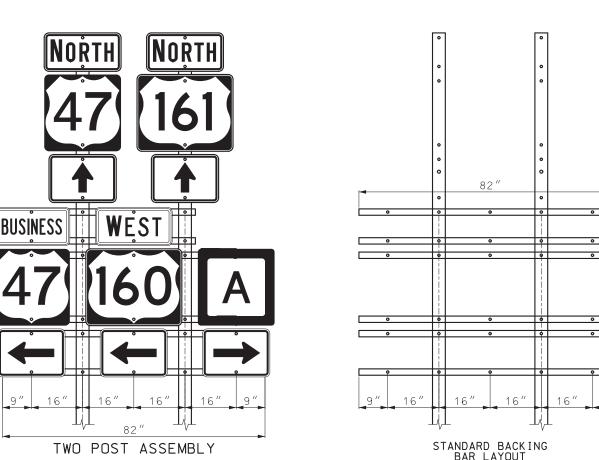
BACKING BARS SHEET SIGN MOUNTING ROUTE SHIELD AND MARKER ASSEMBLIES

DATE EFFECTIVE: 10/01/2019 DATE PREPARED:

7/18/2019

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SHEET NO. 4 OF 8



USE TO SUPPORT 5 OR 6 ROUTE MARKERS

TWO POST ASSEMBLY NOTE:

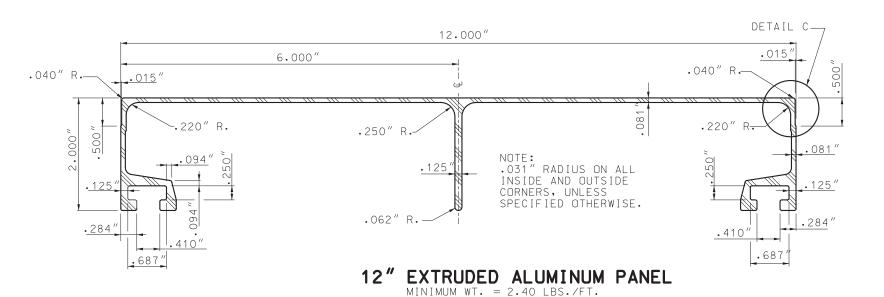
OPTIONAL BACKING BAR LAYOUT MAY BE USED WITH TWO POST ASSEMBLY.

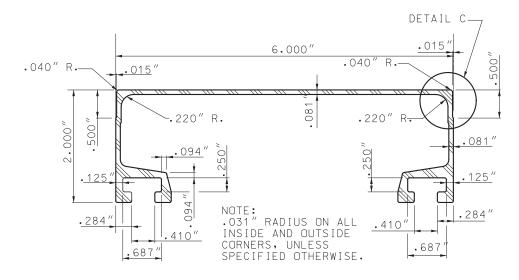
FOR 6 ROUTE SHIELD ASSEMBLY ADDITIONAL BACKING BARS ARE REQUIRED.

POST SELECTION

SINGLE POST ASSEMBLIES SHALL USE A 4" PIPE POST OR A $2\frac{1}{2}$ " PSST POST.

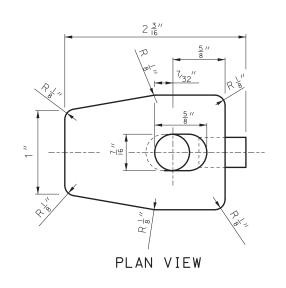
TWO POST ASSEMBLIES SHALL USE TWO 4" PIPE POSTS OR TWO $2\frac{1}{2}$ " PSST POST WITH $2\frac{1}{4}$ " PSST INSERTS AND BREAKAWAYS. (SEE ŠTANDARD PLAN 903.03)

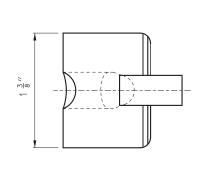




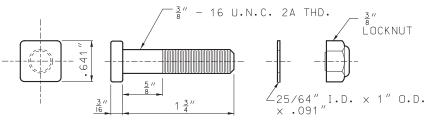
EXTRUDED ALUMINUM PANEL MINIMUM WT. = 2.40 LBS./FT.

NOTE: MINIMUM WEIGHT AND THICKNESS DIMENSIONS SHOWN. HEAVIER PANELS MAY BE USED.





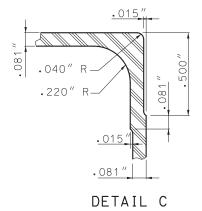
END VIEW

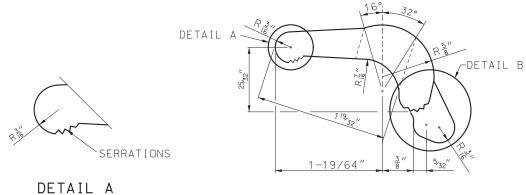


POST CLIP BOLT WITH FLAT WASHER AND LOCKNUT

NOTE: SQUARE BOLT HEAD SHOWN. RECTANGULAR BOLT HEAD WITH LEAST DIMENSION OF .641" MAY

BOLT - 1 \(\frac{3}{4}\) \(\times\) \(\frac{3}{8}\) \(\text{ALUMINUM}\) \(\text{HEX LOCKNUT} - \(\frac{3}{8}\) \(\text{ALUMINUM}\) \(\text{WASHER} - \(\text{ALUMINUM}\)



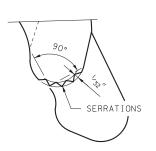




ELEVATION VIEW

POST CLIP

POST CLIPS SHALL BE ASTM B 108, 356-T6 ALUMINUM ALLOY.



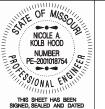
DETAIL B ENLARGED DETAIL OF SERRATIONS

SAW GATING AS SHOWN (APPROXIMATELY FLAT PERMISSABLE)



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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HIGHWAY SIGNING

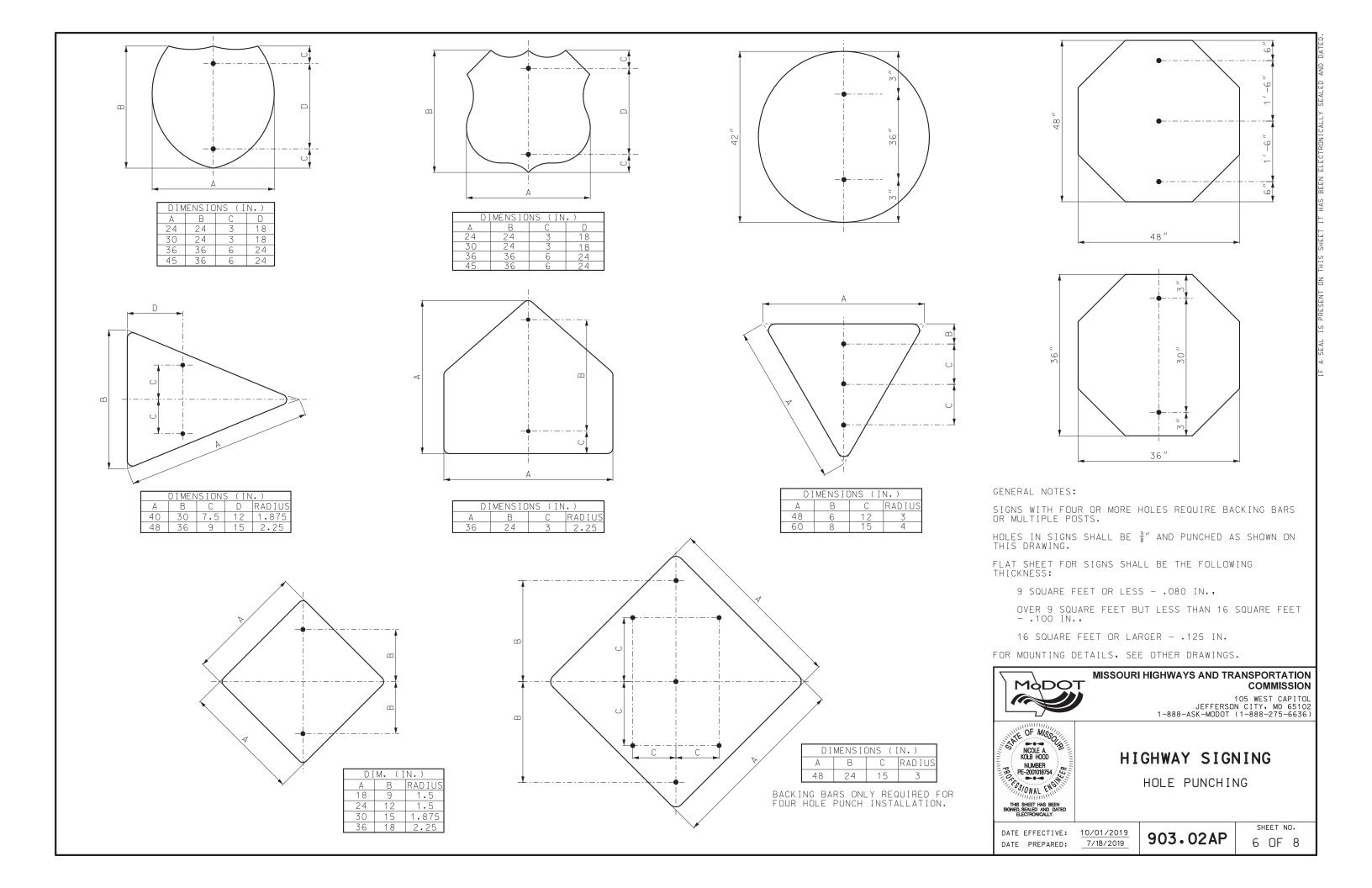
EXTRUDED ALUMINUM PANEL DETAILS

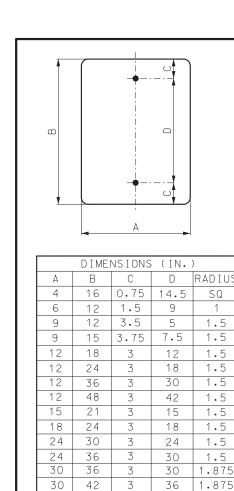
DATE EFFECTIVE: 10/01/2019 DATE PREPARED:

7/18/2019

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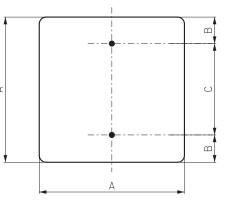
SHEET NO. 5 OF 8





30 48

36



9 1.5

12 1.5

18 1.5 24 1.875

DIMENSIONS (IN.) B C RADIU

6 24 2.25

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DIMENSIONS (IN.)		

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DIMENSIONS (IN.)

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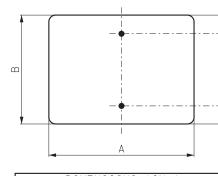
1.5

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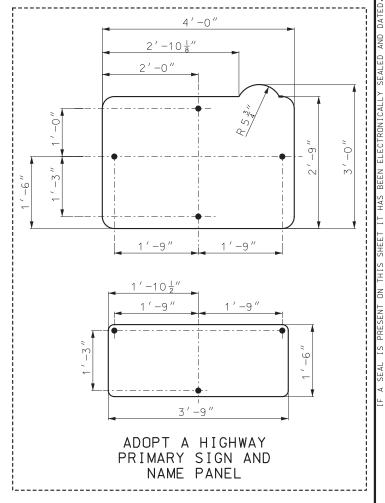
3 24

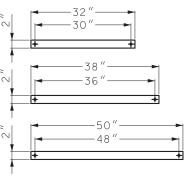
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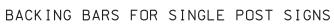
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	DIMEN		(IN.)	
Α	B 5	С	D	RADIUS
4	5	1.5	2	1.5
12	9	1.5	6	1.5
18	9	1.5	6	1.5
18	12	1.5	9	1.5
21	9 12 15	1.5 1.5 1.5 1.5 1.5	9	1.5
24	8	1.5	5	1.5
24	8 12 18	1.5	9	1.5
24	18	3	12	1.5
30	8	1.5	5	1.5
30	12	1.5	5 9 12 5 9 12 18	1.5
30	18	3	12	1.5
30	24	3	18	1.5
36	8	1.5	5	1.5
36	12	1.5	9	1.5
36	8 12 18 24 8 12 18 24	3	12	1.5
36	24	3	18	1.5
4 12 18 18 21 24 24 24 30 30 30 30 36 36 36 36 42 42 42 42 42	30	1.5 1.5 1.5 1.5 1.5 1.5 3 1.5 1.5 3 3 1.5 1.5 3 3 1.5	5 9 12 18 24 5 12	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
42	8	1.5	5	1.5
42	18	3	12	1.5
42	24	3	18	1.5
42	30	3	24	1.875
40	7.0	7	7.0	0 0 5



	DIMEN		(IN.)	
А	В	С	D	RADIUS
4	5	1.5	2 6	1.5
12	9	1.5		1.5
18	9	1.5	6	1.5
18	B 5 9 9 12 15	1.5	9	1.5
21	15	1.5	12	1.5
24	8	1.5	5	1.5
24	12	1.5	9	1.5
4 12 18 18 21 24 24 24 30 30 30 30 30 36	8 12 18	3	5 9 12 5 9 12	1.5
30	8 12 18 24	1.5	5	1.5
30	12	1.5	9	1.5
30	18	3	12	1.5
30	24	3		1.5
36	8 12 18 24 30	1.5	5 9 12 18 24	1.5
36	12	1.5	9	1.5
36	18	3	12	1.5
36	24	3	18	1.5
36	30	3	24	1.875
42	8	1.5	5	1.5
42	18	3	24 5 12 18	1.5
42	24	3	18	1.5
36 36 36 42 42 42 42 42	24	C 1.5 1.5 1.5 1.5 1.5 1.5 3 1.5 1.5 3 1.5 1.5 3 3 1.5 3 3 1.5	24	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
42	36	3	30	2.25
48	8	1.5	5	1.5







ENERAL NOTES:

MODOT

EFER TO GENERAL NOTES ON SHEET 6 OF 8.

	<u> </u>	F	GE
	-		RE
_			7
	F	RADIUS	
	30	3	
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NICOLE A KOLB HOOD NUMBER PE-2001018754
SONAL ENGINEER
THIS SHEET HAS BEEN

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)



HIGHWAY SIGNING

HOLE PUNCHING

ATE	EFFECTIVE
ΔTF	PREPARED

E: 10/01/2019 DATE PREPARED: 7/18/2019

903.02AP

SHEET NO. 7 OF 8

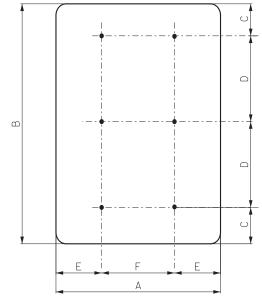
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30 SQ

30 1.5

24 2.25

36 1.875



DIMENSIONS (IN.)						
А	В	С	D	E	F	RADIUS
48	60	6	24	9	30	3
48	72	6	30	9	30	3
48	84	6	36	9	30	3
48	96	6	42	9	30	3

DIMENSIONS (IN.)

6 36

IRADIUS

1.5

1.5

1.5

1.875

1.5

1.5

1.875

2.25

2.25

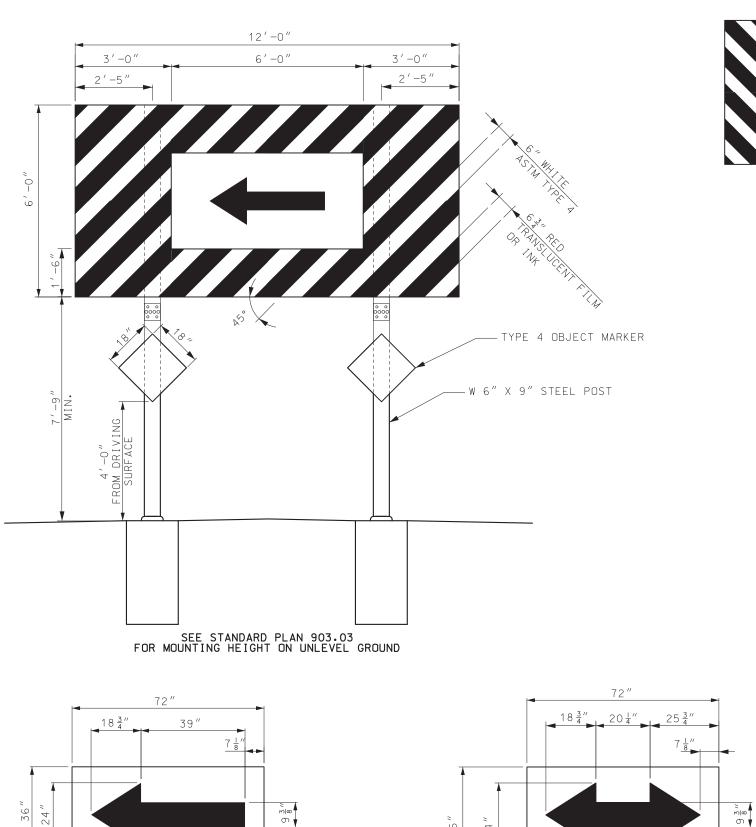
12 48

12 | 48

84 24

96 48

DIMENSIONS (IN.) FOR SIGNS REQUIRING NO HOLE PUNCHING			
А	В	RADIUS	
66	18	1.5	
72	18	1.5	
78	18	1.5	
84	18	1.5	
90	18	1.5	
96	18	1.5	
36	78	2.25	



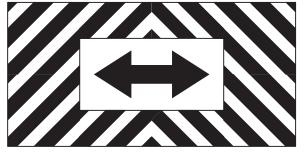
W1 - 7

W1 - 6

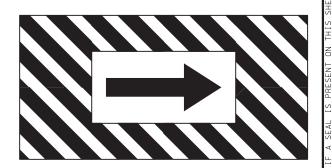


DEAD END





T-INTERSECTION



GENERAL NOTES:

SEE STANDARD PLAN 903.03 FOR WIDE FLANGE INSTALLATION.

SIGN BARRICADE SHALL BE CONSTRUCTED AS A STRUCTURAL (ST) SIGN.

DIRECTIONAL ARROWS SHALL BE SHF AND CONSIDERED INCIDENTAL TO THE SIGN.

ALL REFLECTORIZED SURFACES SHALL BE RETROREFLECTIVE SHEETING IN ACCORDANCE WITH SEC 1042.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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HIGHWAY SIGNING

SIGN BARRICADE

DATE EFFECTIVE: 10/01/2019 DATE PREPARED: 7/18/2019

SHEET NO.

903.02AP 8 OF 8