

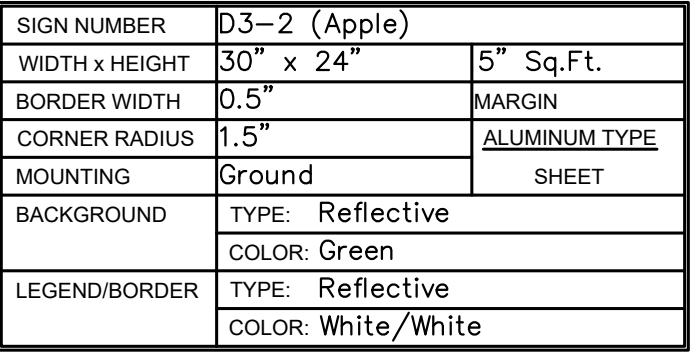


**ENGINEERING CONSTRUCTION CONTRACTING SECTION
MONTANA DEPARTMENT OF TRANSPORTATION**

Sign Design Calculations

SIGN DESIGN CALCS The requested files are only design files. The Department cannot guarantee the accuracy of the electronic data, particularly as it may be called up by your computer, nor does any data in these files supersede the data in the contract documents.

In addition, the Department will not make any revisions to the electronic files prior to award. Changes needed via change ordered work, or changes that are made during construction to fit field conditions, will be provided at that time. See the requirements of Subsection 619.03.2.



Panel Style: guide_con_street name_a.ssi
Dimensions are in inches hundredths

SDC 1

SIGN DESIGN CALCULATIONS

FLORENCE - EAST

RAVALLI

STPS 203-1(28)10

10538000

L MOREY	7/2025
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L MOREY

N THOLT	8/2025
---------	--------

N THOLT


N STYREN	8/2025
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N STYREN	8/2025
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SIGNING PLANS

1/6/2026 6:14 PM

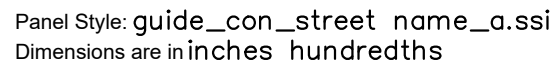
[illegible]


	SIGNING PLANS		L MOREY	7/2025	FLORENCE - EAST
			N THOLT	8/2025	
			N STYREN	8/2025	
			105380005ISDC001_RECOVER.DWG		
			16/2026 6:14 PM		
SIGN DESIGN CALCULATIONS					RAVALLI
STPS 203-1(28)10					105380000

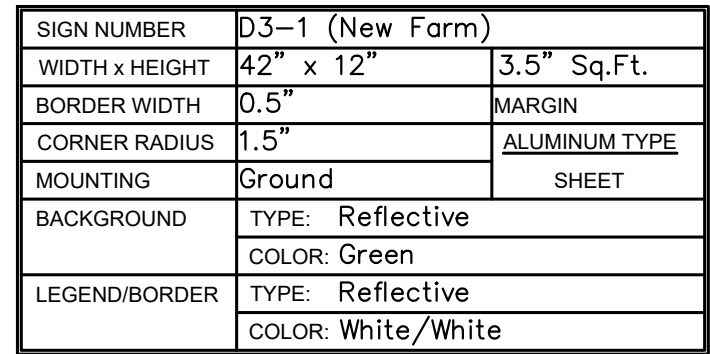


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WIDTH x HEIGHT	30" x 24"	5" Sq.Ft.
BORDER WIDTH	0.5"	MARGIN
CORNER RADIUS	1.5"	<u>ALUMINUM TYPE</u>
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	


[illegible][illegible]

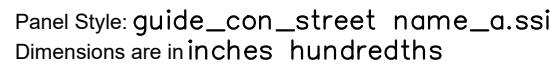
[illegible]


		L MOREY	7/2025	FLORENCE - EAST	SIGN DESIGN CALCULATIONS	SDC 4
				RAVALLI		
		N THOLT	8/2025	STPS 203-1(28)10		
		N STYREN	8/2025	10538000		
	SIGNING PLANS					
	1/6/2028 6:14 PM			10538000SISDC001_RECOVER.DWG		

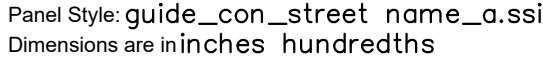


Panel Style: guide_con_street name_a.ssi
Dimensions are in inches hundredths

	SIGNING PLANS		L MOREY	7/2025	FLORENCE - EAST	SIGN DESIGN CALCULATIONS	SDC 5
			N THOLT	8/2025			
			N STYREN	8/2025			
			RAVALLI				
			STPS 203-1/(28)10				
		105380000		105380000			
		105380000SDC001_RECOVER.DWG					
		1/6/2026 6:14 PM					

[illegible]

	SIGNING PLANS		L MOREY	7/2025	FLORENCE - EAST
			N THOLT	8/2025	
			N STYREN	8/2025	
			STPS 203-1(28)10		
			10538000		
16/2026 6:14 PM			10538000ISDC001_RECOVER.DWG		



SYMBOL	ROT	X	Y	WID	HT
AR_Type D	90"	2.1"	2"	2"	3"
Bicycle		7.13"	1.5"	5.18"	3"
Pedestrian		14.32"	1.5"	1.59"	3"

[illegible]

SDC 7

SIGN DESIGN CALCULATIONS

FLORENCE - EAST

RAVALLI

STPS 203-1(28)10

10538000

L MOREY 7/2025

7/2025

8/20/25	N THOIT
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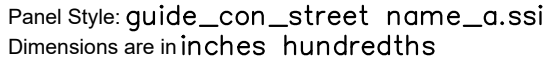
8/2025

NI STYBEN	8/30/25
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NI STYBEN	8/30/25
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SIGNING PLANS

1/6/2026 6:14 PM

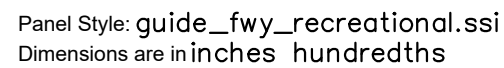


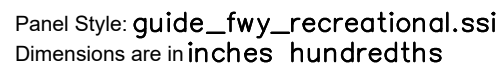
SYMBOL	ROT	X	Y	WID	HT
Ped-Right		2.07"	1.53"	1.59"	3"
Bicycle-Right		5.69"	1.5"	5.18"	3"
AR_Type D	270"	12.9"	2"	2"	3"


[illegible]

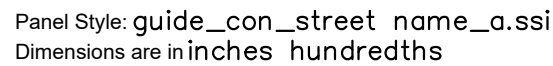
SIGN DESIGN CALCULATIONS


6/6/2026 6:14 PM

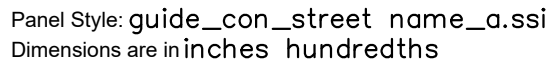
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[illegible]

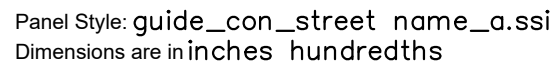
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			N THOLT	8/2025	
			N STYREN	8/2025	
			105380000SISDC001_RECOVER DWG		
			16/2026 6:14 PM		


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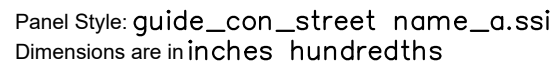
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			N THOLT	8/2025	
			N STYREN	8/2025	
			105380000SISDC001_RECOVER DWG		
			16/2026 6:14 PM		


[illegible]

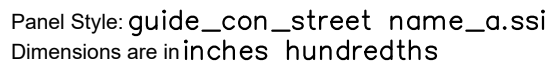
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			L MOREY	7/2025				FLORENCE - EAST
			N THOLT	8/2025				RAVALLI
			N STYREN	8/2025				STPS 203-1(28)10
								10538000
1/6/2026 6:14 PM			10538000ISDC001_RECOVER.DWG					


[illegible]

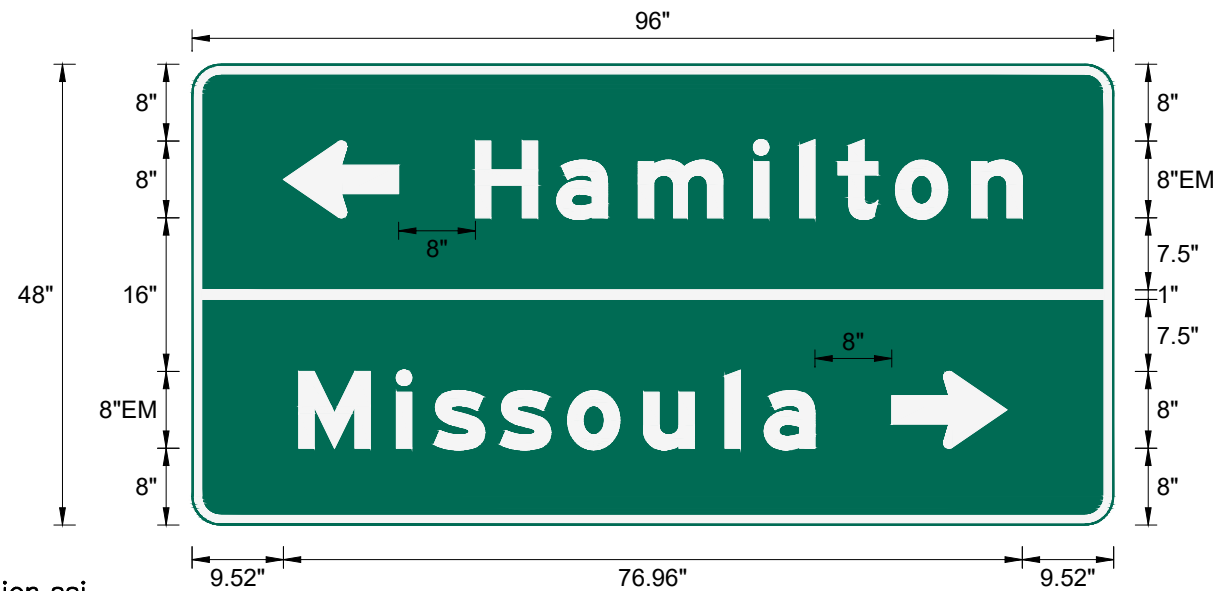
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			N THOLT	8/2025	
			N STYREN	8/2025	
			105380000SISDC001_RECOVER DWG		
			16/2026 6:14 PM		

[illegible]

				FLORENCE - EAST	
	L MOREY	7/2025			
				RAVALLI	
	N THOLT	8/2025			
				STPS 203-1(28)10	
				10538000	
SIGNING PLANS		N STYREN	8/2025		
		10538000SISDC001_RECOVER DWG 10538000SISDC001_RECOVER DWG			
1/6/2026 6:14 PM					

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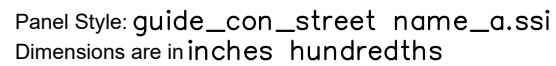
	SIGNING PLANS				
	L MOREY	7/2025			FLORENCE - EAST
	N THOLT	8/2025			RAVALLI
	N STYREN	8/2025			STPS 203-1(28)10
	105380000SISDC001_RECOVER.DWG				105380000




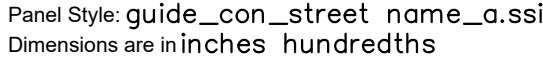
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WIDTH x HEIGHT	96" x 48"	32" Sq.Ft.
BORDER WIDTH	1"	MARGIN
CORNER RADIUS	3"	<u>ALUMINUM TYPE</u>
MOUNTING	Ground	INCREMENT
BACKGROUND	TYPE: Reflective	
	COLOR: Green	
LEGEND/BORDER	TYPE: Reflective	
	COLOR: White/White	


none					
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	90"	9.52"	32"	8"	12"
AR_Type D	270"	72.88'	8"	8"	12"

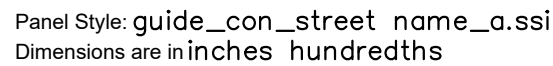
[illegible]


[illegible]

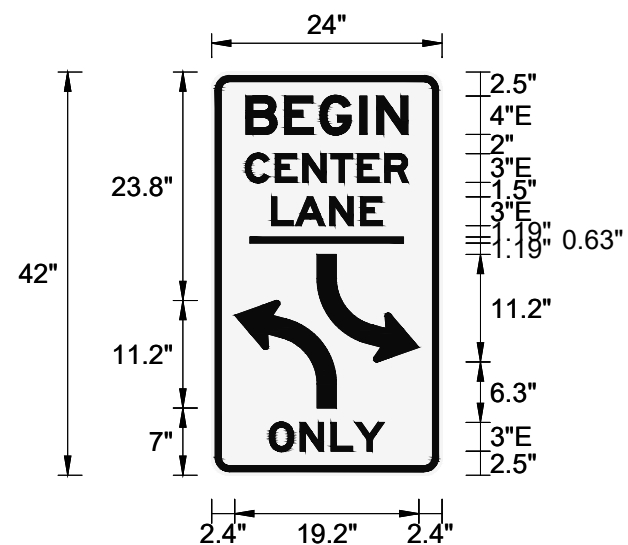
	SIGNING PLANS		L MOREY	7/2025	FLORENCE - EAST RAVALLI STPS 203-1(28)10 10538000
			N THOLT	8/2025	
			N STYREN	8/2025	
			105380000SISDC001_RECOVER.DWG		
			16/2026 6:14 PM		

[illegible]

	SIGNING PLANS		L MOREY	7/2025	FLORENCE - EAST RAVALLI STPS 203-1(28)10 10538000	SIGN DESIGN CALCULATIONS	SDC 18
			N THOLT	8/2025			
			N STYREN	8/2025			
			10538000ISDC001_RECOVER.DWG				
			1/6/2026 6:14 PM				

[illegible]

			
SIGNING PLANS	L MOREY	7/2025	FLORENCE - EAST
	N THOLT	8/2025	RAVALLI
	N STYREN	8/2025	STPS 203-1(28)10
			10538000
'16/2026 6:14 PM	10538000ISDC001_RECOVER.DWG		
SDC 19			

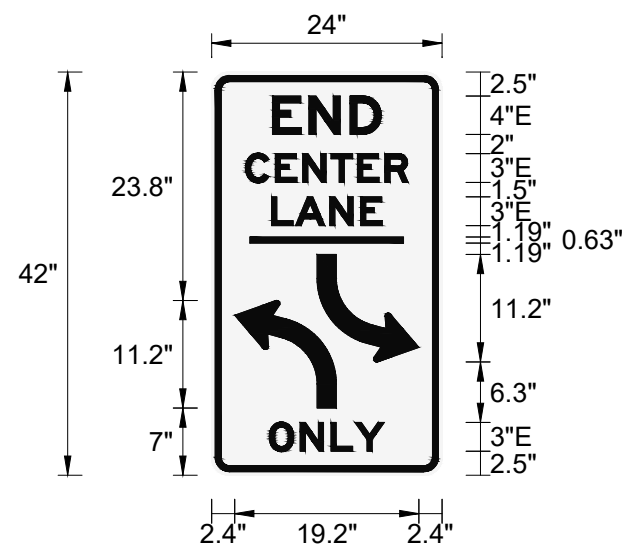


Panel Style: regulatory.ssi
Dimensions are in inches hundredths

SIGN NUMBER	R3-9j	
WIDTH x HEIGHT	24" x 42"	7" Sq.Ft.
BORDER WIDTH	0.63"	MARGIN 0.38"
CORNER RADIUS	1.5"	<u>ALUMINUM TYPE</u>
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: White	
LEGEND/BORDER	TYPE: Non-reflective	
	COLOR: Black/Black	

SYMBOL	ROT	X	Y	WID	HT
R3-9	180"	11"	11.8"	10.59"	11.21"
R3-9		2.4"	7"	10.59"	11.21"

[illegible]



Panel Style: regulatory.ssi
Dimensions are in inches hundredths

SIGN NUMBER	R3-9k	
WIDTH x HEIGHT	24" x 42"	7" Sq.Ft.
BORDER WIDTH	0.63"	MARGIN 0.38"
CORNER RADIUS	1.5"	<u>ALUMINUM TYPE</u>
MOUNTING	Ground	SHEET
BACKGROUND	TYPE: Reflective	
	COLOR: White	
LEGEND/BORDER	TYPE: Non-reflective	
	COLOR: Black/Black	

SYMBOL	ROT	X	Y	WID	HT
R3-9	180"	11"	11.8"	10.59"	11.21"
R3-9		2.4"	7"	10.59"	11.21"

[illegible]

SDC

SIGN DESIGN CALCULATIONS

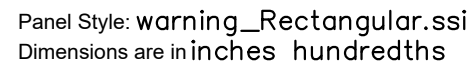
L MOREY	08/2025
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N STYREN	08/2025
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SIGNING PLANS

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[illegible]SDC 24

SIGN DESIGN CALCULATIONS

FLORENCE - EA31

RAVALLI

SIPS 203-1(28)10

10538000

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N THOLT	8/2025
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N STYREN	8/2025
10538000SISDC001_RECOVER.DWG	

SIGNING PLANS

/6/2026 6:14 PM



LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER		LEGEND	LETTER		LEGEND	LETTER		LEGEND	LETTER		SIGN NO.
	WIDTH	HEIGHT		WIDTH	HEIGHT		WIDTH	HEIGHT		WIDTH	HEIGHT	R3-8 · (MOD
L	3.34	5.00	O	3.94	5.00	L	2.78	5.00	.	.	.	STA.
E	3.34		N	3.78		A	3.96		-	-	-	.
F	3.06		L	2.78		N	3.78		-	-	-	PANEL MAT'L
T	2.50		Y	3.12		E	2.50		-	-	-	SHT ALUM
.	-	-	.	-	-	.	-	-	-	-	-	WIDTH
.	-	-	.	-	-	.	-	-	-	-	-	48.0in
.	-	-	.	-	-	.	-	-	-	-	-	HEIGHT
.	-	-	.	-	-	.	-	-	-	-	-	42.0in
.	-	-	.	-	-	.	-	-	-	-	-	AREA
.	-	-	.	-	-	.	-	-	-	-	-	14.0ft ²
.	-	-	.	-	-	.	-	-	-	-	-	MARGIN
.	-	-	.	-	-	.	-	-	-	-	-	0.75in
.	-	-	.	-	-	.	-	-	-	-	-	BORDER
.	-	-	.	-	-	.	-	-	-	-	-	1.25in
.	-	-	.	-	-	.	-	-	-	-	-	CORNER R
.	-	-	.	-	-	.	-	-	-	-	-	2.25in
.	-	-	.	-	-	.	-	-	-	-	-	LEGEND
.	-	-	.	-	-	.	-	-	-	-	-	<input type="checkbox"/> REFL. "I"
.	-	-	.	-	-	.	-	-	-	-	-	<input type="checkbox"/> REFL. "IV"
.	-	-	.	-	-	.	-	-	-	-	-	COLOR
.	-	-	.	-	-	.	-	-	-	-	-	BLACK
.	-	-	.	-	-	.	-	-	-	-	-	BACKGROUND
.	-	-	.	-	-	.	-	-	-	-	-	<input type="checkbox"/> REFL. "I"
.	-	-	.	-	-	.	-	-	-	-	-	<input checked="" type="checkbox"/> REFL. "IV"
.	-	-	.	-	-	.	-	-	-	-	-	COLOR
.	-	-	.	-	-	.	-	-	-	-	-	WHITE
TOTAL TEMP.	12.24	-	TOTAL TEMP.	13.62	-	TOTAL TEMP.	13.02	-	TOTAL TEMP.	-	-	LETTER SERIES C
LEFT EDGE	6.52	-	LEFT EDGE	28.50	-	LEFT EDGE	6.18	-	LEFT EDGE	-	-	ARROW SIZE
RIGHT EDGE	29.24	-	RIGHT EDGE	5.88	-	RIGHT EDGE	28.80	-	RIGHT EDGE	-	-	DESIGNED:tdh DATE: 11/12
SIGN WIDTH	48.00	-	SIGN WIDTH	48.00	-	SIGN WIDTH	48.00	-	SIGN WIDTH	-	-	CHECKED: JHC DATE: 10/10



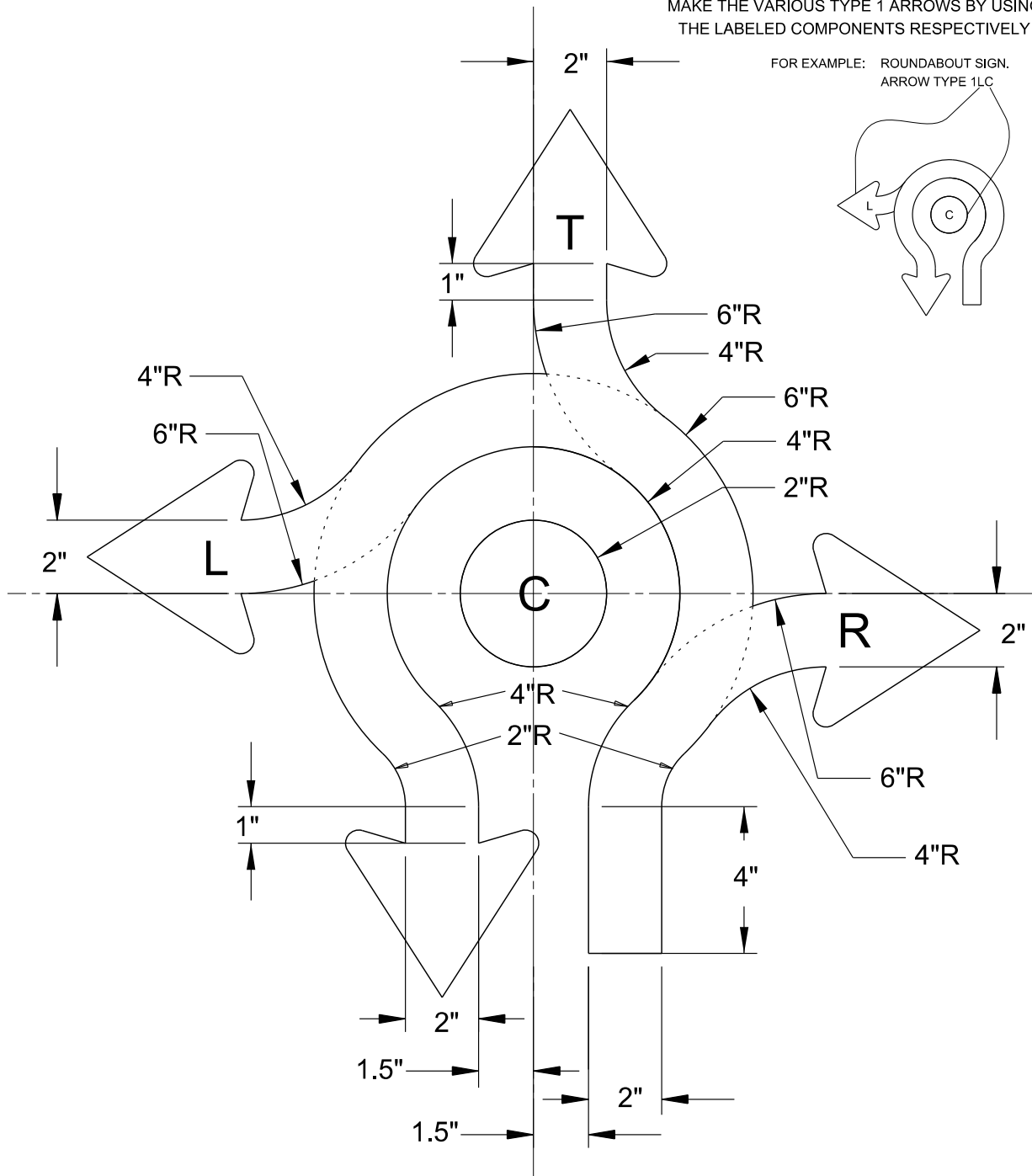
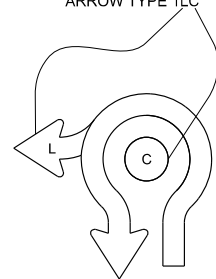
MONTANA DEPARTMENT
OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO. _____ BR-STPS 203-1 (11) 10
PROJ. TITLE _____ FLORENCE - EAST
RAVALLI COUNTY

MAKE THE VARIOUS TYPE 1 ARROWS BY USING
THE LABELED COMPONENTS RESPECTIVELY

FOR EXAMPLE: ROUNDABOUT SIGN.
ARROW TYPE 1LC



FISHHOOK SYMBOL COMPONENTS - TYPE 1 (FOR ROUNDABOUT SIGNS)

DESIGNED: tch
DATE: 11/12
CHECKED: JHC
DATE: 10/10



MONTANA DEPARTMENT
OF TRANSPORTATION

SIGN DESIGN CALCULATIONS

PROJ. NO.

BR-STPS 203-1 (11) 10

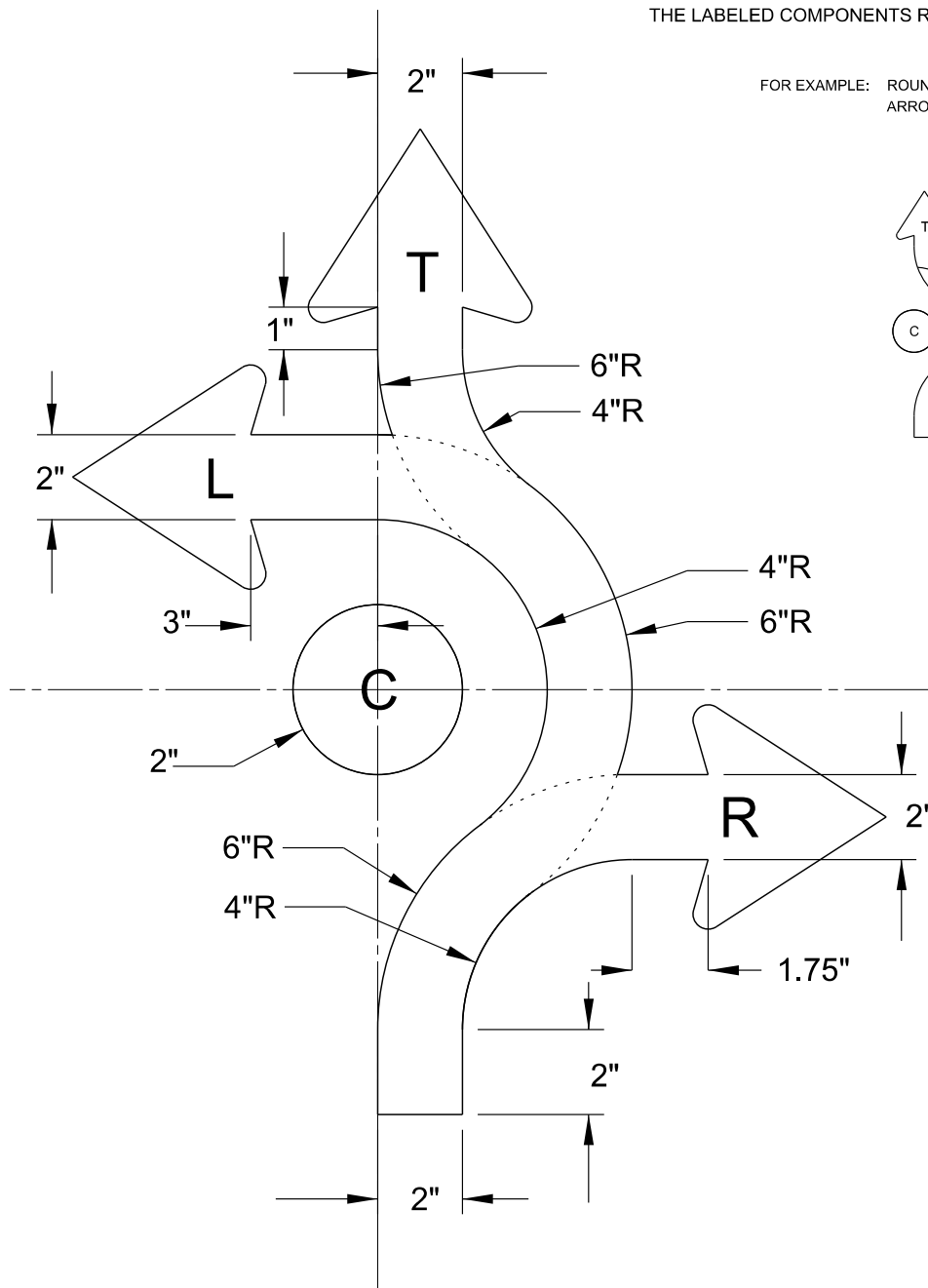
PROJ. TITLE

FLORENCE - EAST

RAVALLI COUNTY

MAKE THE VARIOUS TYPE 2 ARROWS BY USING
THE LABELED COMPONENTS RESPECTIVELY

FOR EXAMPLE: ROUNDABOUT SIGN.
ARROW TYPE 2TR



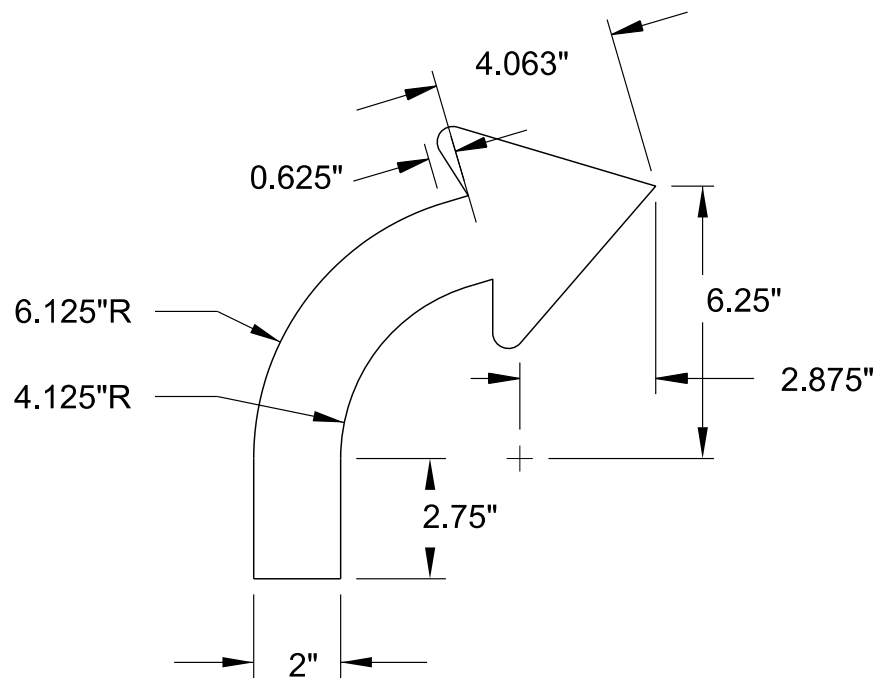
FISHHOOK SYMBOL COMPONENTS - TYPE 2
(FOR ROUNDABOUT SIGNS)

DESIGNED: tch
DATE: 11/12
CHECKED: JHC
DATE: 10/10

SIGN DESIGN CALCULATIONS

PROJ. NO. _____ BR-STPS 203-1 (11) 10
PROJ. TITLE _____ FLORENCE - EAST
RAVALLI COUNTY

FOR EXAMPLE: SEE SIGN DESIGN :
R3-5R



**RIGHT TURN ARROW
(FOR ROUNDABOUT SIGNS)**

DESIGNED: tch
DATE: 11/12
CHECKED: JHC
DATE: 10/10

Technical drawing of a 'LEFT TURN ONLY' sign. The sign is rectangular with rounded corners and a white background. It features a black graphic of a vehicle turning left, with a straight arrow pointing up and a curved arrow pointing left. The word 'ONLY' is printed in large, bold, black capital letters at the bottom right. Dimensions are provided in inches:

- Overall width: 36"
- Overall height: 30"
- Top-left corner radius: 2.25"
- Top-right corner radius: 2.34"
- Left side height from top to arrow base: 12.625"
- Arrow base height: 8"
- Arrow base width: 2.5"
- Arrow base height from bottom: 13.75"
- Arrow base width from left: 4.25"
- Arrow base width from right: 5.54"
- Arrow base width from center: 0.75"
- Arrow base height from bottom: 6.46"
- Arrow base height from bottom: 5.04"
- Arrow base height from bottom: 1"
- Arrow base height from bottom: 4.0"
- Arrow base height from bottom: 3"