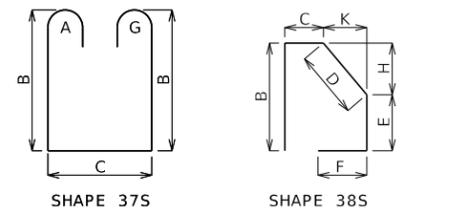
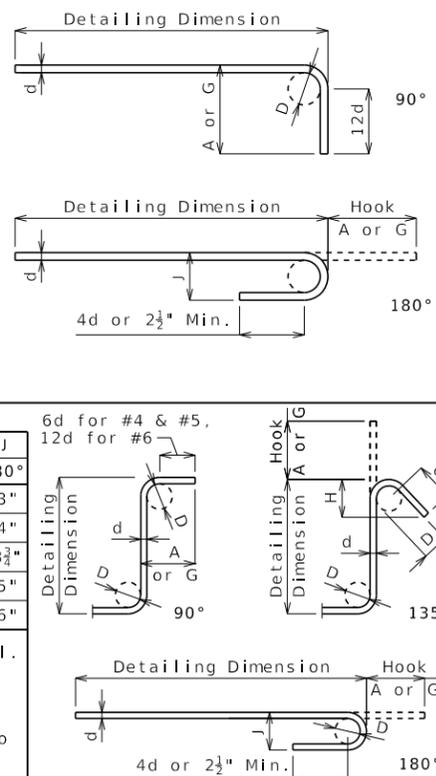


Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes					
Size	Case	D	A or G		
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3 3/4"	10"	7"	5"
#6	1	4 1/2"	12"	8 1/4"	6"
	2	5 1/4"	14"	9 3/4"	7"
#7	3	7"	15"	11 1/2"	8 3/4"
	2	6"	16"	11"	8"
#8	3	8"	17"	13 1/4"	10"
	1	9 1/2"	19 1/2"	15 1/2"	11 3/4"
#9	1	10 3/4"	22"	17 1/2"	13 1/4"
#10	1	12"	24 1/2"	19 1/2"	14 7/8"
#11	1	18 1/4"	31 1/4"	27 1/2"	21 3/8"
#14	1	24"	41 1/2"	36 1/4"	28 1/2"
#18	1	24"	41 1/2"	36 1/4"	28 1/2"

Stirrup Pin Bend Shapes (S)							
Size	Case	D	A or G		H	J	
			90°	135°			180°
#4	2	2"	4 1/2"	4 1/2"	5"	2 3/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/2"	7"	3 3/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 3/8"	6"



BENDING DIAGRAMS

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

Reinforcing steel (ASTM A615 Grade 60) $f_y = 60,000$ psi

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.
SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

All dimensions are out to out. (1) Shall be a deformed or plain spiral bar or wire.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes. Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

Reinforcing Steel Totals (Pounds)

Size	Substructure		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
4	0	0	0	0	0	0	0
5	0	0	0	453	0	0	453
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
By Type	0	0	0	453	0	0	453

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Bill of Reinforcing Steel

No. Req.	Size/Mark	Location	Codes	Dimensions						Nom. Length	Actual Length	Weight		
				B	C	D	E	F	H				K	
		End Post Mod.												
4	5 R1	MODIFIED END	E 10S		7.00	8.00					1 10	1 7	7	
24	5 R2	MODIFIED END	E 10S		7.00	9.00					1 11	1 8	42	
20	5 R3	MODIFIED END	E 10S		2 5.00	6.00					5 4	5 1	106	
12	5 R4	MODIFIED END	E 10S 4		2 4.75	7.00					5 5	5 2		
		Incr. = 2.000"			2 2.25	8.50					5 1	4 10	63	
40	5 R5	MODIFIED END	E 20	4	9.00						4 9	4 9	198	
12	5 R6	MODIFIED END	E 15S		11.25	2 1.50				1.25	11.25	3 1	2 11	37

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

DATE PREPARED	4/1/2026
ROUTE	STATE MO
DISTRICT	SHEET NO. 000
COUNTY	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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