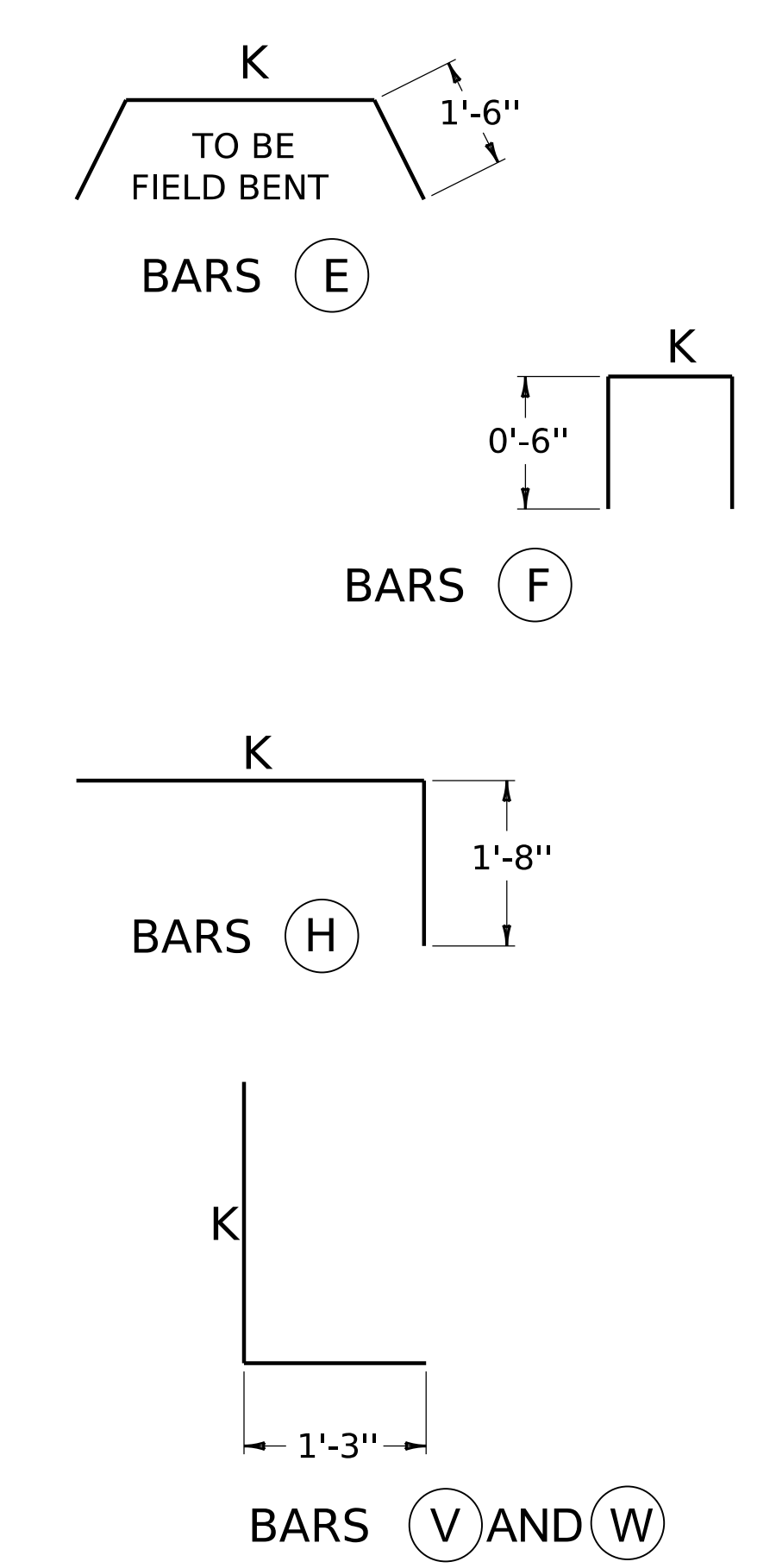


MARK	SIZE	NO LGTH K				MARK	SIZE	NO LGTH K				MARK	SIZE	NO LGTH K				MARK	SIZE	NO LGTH K															
		①	FT	IN	FT			IN	①	FT	IN			FT	IN	①	FT			IN	FT	IN	①	FT	IN	FT	IN								
30"					36" (CONTINUED)					42" (CONTINUED)					54"					60" (CONTINUED)															
A1	5	2	4	6	Q	4	2	4	2	W2	5	2	4	4	3	1	A1	5	2	6	9	C5	4	1	23	7									
A2	5	2	8	0	R	4	5	0	11	W3	5	1	5	6	4	3	A2	5	2	12	0	E1	5	2	17	6	14	6							
C1	4	1	9	9	S1	5	4	3	2							C1	4	1	13	2	E2	5	2	17	10	14	10								
C2	4	1	13	2	S2	5	4	6	0							C2	4	1	16	10	F	4	15	1	3	0	4								
E1	5	2	10	6	7	6	T1	5	4	1	8	48"					C3	4	1	20	5	G1	4	1	12	10									
E2	5	2	10	10	7	10	T2	5	4	3	1						C4	4	1	21	6	G2	4	2	16	10									
F	4	8	1	3	0	4	T3	5	4	4	6	A1	5	2	6	2	E1	5	2	16	0	13	0	G3	4	2	20	10							
G1	4	2	8	10	V1	5	2	3	0	1	9	A2	5	2	11	1	E2	5	2	16	5	13	5	H	4	13	8	7	6	11					
G2	4	3	12	10	V2	5	2	3	7	2	4	C1	4	1	10	6	F	4	13	1	3	0	4	K1	4	1	2	7							
H	4	7	6	2	4	6	V3	5	2	4	2	2	11	C2	4	1	14	0	G1	4	2	14	5	K2	4	1	4	5							
K1	4	1	2	0	V4	5	2	4	9	3	6	C3	4	1	17	6	G2	4	2	18	5	K3	4	1	6	4									
K2	4	1	3	9	V5	5	8	5	2	3	11	C4	4	1	19	5	G3	4	3	22	5	K4	4	1	6	6									
N1	4	3	3	11	W	5	2	3	1	1	10	E1	5	2	14	7	11	7	H	4	13	8	0	6	4	N1	4	3	6	6					
N2	4	3	13	7	W2	5	2	4	3	3	0	E2	5	2	14	11	11	11	K1	4	1	1	8	N2	4	3	23	7							
Q	4	2	3	5	W3	5	1	5	4	4	1	F	4	12	1	3	0	4	K2	4	1	3	7	Q	4	2	7	1							
R	4	4	0	10							G1	4	2	11	10	G1	4	2	11	10	K3	4	1	5	6	R	4	7	1	0					
S1	5	4	2	2	42"					G2	4	2	15	10	G2	4	2	15	10	K4	4	1	6	0	S1	5	4	1	8						
S2	5	4	5	0	A1	5	2	5	8	G3	4	3	19	10	N1	4	3	6	0	N1	4	3	6	0	S2	5	4	4	6						
T1	5	2	1	1	A2	5	2	10	2	H	4	11	7	7	5	11	N2	4	3	21	6	Q	4	2	6	4	S3	5	4	7	4				
T2	5	4	2	5	C1	4	1	11	7	K1	4	1	2	7	R	4	7	1	0	R	4	7	1	0	T1	5	4	1	10						
T3	5	4	3	10	C2	4	1	15	2	K2	4	1	4	5	S1	5	2	1	0	S1	5	2	1	0	T2	5	4	3	3						
V1	5	2	2	10	1	7	C3	4	1	17	8	K3	4	1	5	5	S2	5	4	3	5	S2	5	4	3	5	T3	5	4	4	8				
V2	5	2	3	5	2	2	E1	5	2	13	8	N1	4	3	5	5	S3	5	4	6	3	S3	5	4	6	3	T4	5	4	6	0				
V3	5	2	3	11	2	8	E2	5	2	13	8	10	8	Q	4	2	5	7	S4	5	4	9	1	S4	5	4	9	1	T5	5	4	7	6		
V4	5	2	4	7	3	4	F	4	11	1	3	0	4	R	4	6	1	0	T1	5	2	1	0	T1	5	2	1	0	V1	5	2	3	9	2	6
V5	5	6	4	8	3	5	G1	4	1	9	8	S1	5	4	2	4	S1	5	4	2	4	T2	5	4	2	5	V2	5	2	4	4	3	1		
W	5	2	2	11	1	8	G2	4	2	13	9	S2	5	4	5	2	S2	5	4	5	2	T3	5	4	3	10	V3	5	2	4	11	3	8		
W2	5	2	4	0	2	9	G3	4	3	17	9	S3	5	4	8	0	S3	5	4	8	0	T4	5	4	5	3	V4	5	2	5	5	4	2		
						H	4	10	7	1	5	5	T1	5	4	1	8	T1	5	4	1	8	T5	5	4	6	8	V5	5	2	6	0	4	9	
36"					K1	4	1	1	11	T2	5	4	3	1	V1	5	2	3	7	2	4	V6	5	2	6	7	5	4							
A1	5	2	5	2	K2	4	1	3	9	T3	5	4	4	6	V2	5	2	4	2	2	11	V7	5	12	6	11	5	8							
A2	5	2	9	2	K3	4	1	5	0	T4	5	4	5	11	V3	5	2	4	8	3	5	W	5	2	3	10	2	7							
C1	4	1	9	1	N1	4	3	5	0	V1	5	2	3	4	2	1	V4	5	2	5	3	4	0	W2	5	2	4	11	3	8					
C2	4	1	12	6	N2	4	3	17	8	V2	5	2	3	11	2	8	V5	5	2	5	9	4	6	W3	5	2	6	0	4	9					
C3	4	1	15	7	Q	4	2	4	11	V3	5	2	4	6	3	3	V6	5	12	6	4	5	1	W4	5	1	7	1	5	10					
E1	5	2	11	9	8	9	R	4	5	0	11	V4	5	2	5	1	3	10	W	5	2	3	8	2	5										
E2	5	2	12	2	9	2	S1	5	4	1	1	V5	5	2	5	8	4	5	W2	5	2	4	9	3	6										
F	4	9	1	3	0	4	S2	5	4	4	0	V6	5	10	6	0	4	9	W3	5	2	5	9	4	6										
G1	4	1	7	4	S3	5	4	7	0	W	5	2	3	6	2	3	W4	5	2	4	7	3	4												
G2	4	2	11	4	T1	5	4	2	4	W2	5	2	4	7	3	4	W5	5	2	5	8	4	5												
G3	4	3	15	4	T2	5	4	3	9	W3	5	2	5	8	4	5	60"																		
H	4	9	6	8	5	0	T3	5	4	5	2						A1	5	2	7	4														
K1	4	1	1	2	V1	5	2	3	2	1	11						A2	5	2	13	1														
K2	4	1	2	11	V2	5	2	3	8	2	5						C1	4	1	12	2														
K3	4	1	4	6	V3	5	2	4	3	3	0						C2	4	1	15	11														
N1	4	3	4	6	V4	5	2	4	10	3	7						C3	4	1	19	6														
N2	4	3	15	7	V5	5	10	5	6	4	3						C4	4	1	23	1														
						W	5	2	3	3	2	0																							

- NOTES**
- ① NUMBER OF BARS IN ONE HEADWALL.
  - 2 DIMENSIONS ARE 0. TO 0. OF BARS.
  - 3 ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN BELOW.

**BENT BAR SHAPES**



(USE WITH CURRENT RDH-120)

**KENTUCKY DEPARTMENT OF HIGHWAYS**  
 BILL OF REINFORCEMENT  
 30" TO 60" DIAMETER  
 NON-CIRCULAR PIPE HEADWALLS  
 45° SKEW

STANDARD DRAWING NO. RDH-380-04

SUBMITTED \_\_\_\_\_ DIRECTOR DIVISION OF DESIGN \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED \_\_\_\_\_ STATE HIGHWAY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_