7' X 6'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	9	9		
A2	5	2	10	8		
B1	5	4	3	1		
B2	5	4	4	0		
B3	5	4	4	11		
B4	5	4	5	11		
B5	5	4	6	10		
B6	5	6	7	2		
C1	4	2	4	1		
C2	4	2	6	2		
C3	4	2	8	4		
C4	4	2	10	5		
C5	4	2	12	6		
C6	4	4	12	9		
E1	5	2	14	6	9	6
E2	5	2	15	2	10	2
F	4	10	1	5	0	6
G1	4	1	9	0		
G2	4	2	10	9		
G3	4	2	12	6		
G4	4	2	14	2		
G5	4	3	16	0		
H	4	9	11	2	9	0
J1	5	4	3	1		
J2	5	4	4	2		
J3	5	4	5	2		
J4	5	4	6	3		
J5	5	2	7	4		
K1	4	2	2	10		
K2	4	2	4	9		
K3	4	2	6	7		
K4	4	2	8	6		
K5	4	4	8	8		
M1	4	1	2	5		
M2	4	21	3	9		
N1	4	7	8	8		
N2	4	5	11	7		
N3	4	2	12	11		
P	5	22	5	3	3	6
Q	5	4	8	0		
R	5	9	3	4		
S1	5	2	1	0		
S2	5	2	1	4		
S3	5	2	1	7		
S4	5	2	1	11		
S5	5	2	2	2		
S6	5	2	2	6		
S7	5	2	2	10		
S8	5	2	3	1		
T1	5	2	3	6		

7' X 6' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
T2	5	2	7	1		
T3	5	2	9	1		

7' X 7'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	10	11		
A2	5	2	12	0		
B1	5	4	3	6		
B2	5	4	4	6		
B3	5	4	5	5		
B4	5	4	6	5		
B5	5	4	7	4		
B6	5	8	8	2		
C1	4	2	4	1		
C2	4	2	6	2		
C3	4	2	8	4		
C4	4	2	10	5		
C5	4	2	12	7		
C6	4	6	13	11		
E1	5	2	14	6	9	6
E2	5	2	15	2	10	2
F	4	10	1	5	0	6
G1	4	2	9	3		
G2	4	2	10	11		
G3	4	2	12	8		
G4	4	2	14	4		
G5	4	3	16	0		
H	4	9	12	2	10	0
J1	5	4	3	7		
J2	5	4	4	7		
J3	5	4	5	8		
J4	5	4	6	8		
J5	5	4	7	9		
K1	4	2	2	9		
K2	4	2	4	8		
K3	4	2	6	7		
K4	4	2	8	6		
K5	4	6	9	8		
M1	4	1	2	6		
M2	4	23	3	9		
N1	4	7	9	8		
N2	4	5	12	9		
N3	4	2	14	1		
P	5	24	5	9	4	0
Q	5	4	8	0		
R	5	9	3	4		
S1	5	2	1	0		
S2	5	2	1	4		
S3	5	2	1	7		

7' X 7' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
S4	5	2	1	11		
S5	5	2	2	2		
S6	5	2	2	6		
S7	5	2	2	10		
S8	5	2	3	1		
T1	5	2	3	6		
T2	5	2	7	1		
T3	5	2	9	1		

8' X 4'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	7	7		
A2	5	2	8	4		
C1	4	1	4	2		
C2	4	1	6	4		
C3	4	1	8	5		
C4	4	1	10	7		
C5	4	1	10	9		
E1	5	2	13	8	10	8
E2	5	2	14	1	11	1
F	4	11	1	3	0	6
G1	4	1	10	9		
G2	4	2	12	6		
G3	4	2	14	2		
G4	4	3	16	0		
H	4	9	8	8	7	0
K1	4	1	2	9		
K2	4	1	4	8		
K3	4	1	6	6		
K4	4	1	6	9		
N1	4	3	6	9		
N2	4	3	10	9		
Q	4	2	9	0		
R	4	10	1	1		
S1	5	2	1	1		
S2	5	2	1	4		
S3	5	2	1	8		
S4	5	2	2	0		
S5	5	2	2	3		
S6	5	2	2	7		
S7	5	2	2	10		
S8	5	2	3	2		
T1	5	2	4	0		
T2	5	2	7	4		
T3	5	2	9	11		
V1	5	2	3	10	2	7
V2	5	2	4	9	3	6
V3	5	2	5	8	4	5
V4	5	2	6	8	5	5

8' X 4' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
V5	5	6	6	11	5	8
W1	5	2	3	9	2	6
W2	5	2	4	10	3	7
W3	5	2	5	11	4	8
W4	5	1	6	11	5	8

8' X 5'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	8	9		
A2	5	2	9	7		
C1	4	1	4	3		
C2	4	1	6	4		
C3	4	1	8	6		
C4	4	1	10	7		
C5	4	2	11	11		
E1	5	2	13	8	10	8
E2	5	2	14	1	11	1
F	4	11	1	3	0	6
G1	4	2	10	11		
G2	4	2	12	8		
G3	4	2	14	4		
G4	4	3	16	0		
H	4	9	9	8	8	0
K1	4	1	2	9		
K2	4	1	4	8		
K3	4	1	6	7		
K4	4	2	7	9		
N1	4	3	7	9		
N2	4	3	11	11		
Q	4	2	9	0		
R	4	10	1	1		
S1	5	2	1	1		
S2	5	2	1	4		
S3	5	2	1	8		
S4	5	2	2	0		
S5	5	2	2	3		
S6	5	2	2	7		
S7	5	2	2	10		
S8	5	2	3	2		
T1	5	2	4	0		
T2	5	2	7	4		
T3	5	2	9	11		
V1	5	2	4	3	3	0
V2	5	2	5	3	4	0
V3	5	2	6	2	4	11
V4	5	2	7	1	5	10
V5	5	4	7	11	6	8
W1	5	2	4	4	3	1
W2	5	2	5	4	4	1

8' X 5' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
W3	5	2	6	5	5	2
W4	5	2	7	5	6	2

8' X 6'

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
A1	5	2	9	9		
A2	5	2	10	8		
B1	5	4	3	0		
B2	5	4	4	0		
B3	5	4	4	11		
B4	5	4	5	11		
B5	5	4	6	10		
B6	5	6	7	2		
C1	4	2	4	4		
C2	4	2	6	5		
C3	4	2	8	6		
C4	4	2	10	8		
C5	4	2	12	8		
C6	4	4	13	0		
E1	5	2	15	8	10	8
E2	5	2	16	3	11	3
F	4	11	1	5	0	6
G1	4	1	9	10		
G2	4	2	11	4		
G3	4	2	12	11		
G4	4	2	14	6		
G5	4	3	16	0		
H	4	9	11	2	9	0
J1	5	4	3	1		
J2	5	4	4	1		
J3	5	4	5	2		
J4	5	4	6	3		
J5	5	2	7	3		
K1	4	2	2	9		
K2	4	2	4	7		
K3	4	2	6	6		
K4	4	2	8	5		
K5	4	4	8	8		
M1	4	2	2	3		
M2	4	21	3	9		
N1	4	7	8	8		
N2	4	5	11	11		
N3	4	2	13	3		
P	5	22	5	3	3	6
Q	5	4	9	0		
R	5	10	3	4		
S1	5	2	1	1		
S2	5	2	1	4		
S3	5	2	1	7		

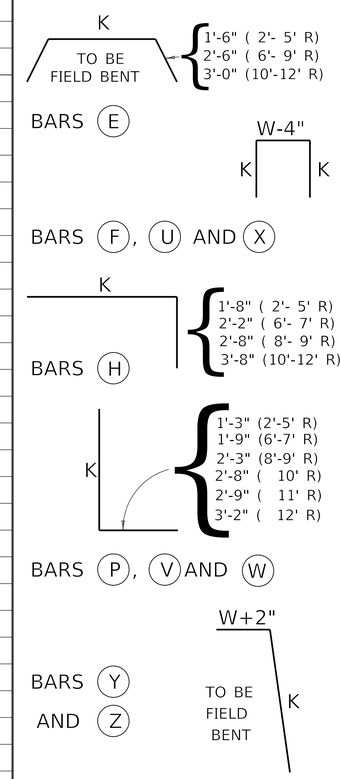
8' X 6' (CONTINUED)

MARK	SIZE	NO (1)	LGTH FT	LGTH IN	K FT	K IN
S4	5	2	1	11		
S5	5	2	2	3		
S6	5	2	2	6		
S7	5	2	2	10		
S8	5	2	3	1		
S9	5	2	3	5		
T1	5	2	1	3		
T2	5	2	4	9		
T3	5	2	8	1		
T4	5	2	10	1		

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.
4. R = BOX OR PIPE RISE
5. W = WING WALL WIDTH

BENT BAR SHAPES



KENTUCKY
DEPARTMENT OF HIGHWAYS

BILL OF REINFORCEMENT
7' X 6' – 8' X 6' HEADWALLS
PRECAST BOX CULVERTS
15° SKEW

STANDARD DRAWING NO. RDH-1314-03

SUBMITTED _____ DIRECTOR DIVISION OF DESIGN _____ DATE

APPROVED _____ STATE HIGHWAY ENGINEER _____ DATE