

**DIMENSIONS AND ESTIMATE OF QUANTITIES**

INLET SIZE NO.	PIPE		④ H	CONCRETE		REINF. STEEL LBS.			
	MAX. DIA.	SIDE		CUBIC YARDS	⑥ Q				
1	4'-6"	3'-0"	42"	X	5'-1/2"	4.3	0.4	240	
2		3'-6"				4.7		252	
3		4'-0"				5.0		0.5	348
4		4'-6"				5.3			365
5	5'-0"	3'-0"	48"	X	5'-7"	4.9	0.5	255	
6		3'-6"				5.2		268	
7		4'-0"				5.6		372	
8		4'-6"				5.9		390	
9		5'-0"				6.3		416	
10	5'-6"	3'-0"	54"	X	6'-1 1/2"	5.4	0.5	262	
11		3'-6"				5.8		276	
12		4'-0"				6.2		388	
13		4'-6"				6.6		407	
14		5'-0"				7.0		434	
15		5'-6"				7.4		453	
16	6'-0"	3'-0"	60"	X	6'-8"	6.0	0.5	278	
17		3'-6"				6.4		292	
18		4'-0"				6.8		412	
19		4'-6"				7.3		432	
20		5'-0"				7.7		460	
21		5'-6"				8.1		480	
22		6'-0"				8.5		0.7	508

**BILL OF REINFORCEMENT**

NUMBER 5 REINFORCEMENT BARS																													
MARK	NO.	LGTH.		K	MARK	NO.	LGTH.		K	MARK	NO.	LGTH.		K	MARK	NO.	LGTH.												
		①	FT.				IN.	①				FT.	IN.				①	FT.	IN.	①	FT.	IN.							
4'-6" x 3'-0"				5'-0" x 3'-6"				5'-6" x 3'-6"				5'-6" x 5'-6"				6'-0" x 4'-6"													
A	18	3	10	2	4	A	20	3	10	2	4	A	20	3	10	2	4	A	24	3	10	2	4	A	24	3	10	2	4
B	4	8	0			B	4	8	6			B	4	8	6			B	4	10	6			B	4	9	6		
C	12	2	5	0	11	C	14	2	8	1	2	C	14	2	11	1	5	C	22	2	11	1	5	C	18	3	2	1	8
D	10	4	0			D	10	4	6			D	10	4	6			D	10	6	6			D	10	5	6		
E	4	5	6			E	4	6	0			E	4	6	6			E	10	6	6			E	10	7	0		
G	4	9	6			G	4	10	0			G	4	10	6			G	4	10	6			G	4	11	0		
4'-6" x 3'-6"				5'-0" x 4'-0"				5'-6" x 4'-0"				J 22 2 11 1 5				J 24 2 5 0 11													
A	18	3	10	2	4	A	22	3	10	2	4	A	22	3	10	2	4	6'-0" x 3'-0"				6'-0" x 5'-0"							
B	4	8	6			B	4	9	0			B	4	9	0			A	22	3	10	2	4	A	26	3	10	2	4
C	14	2	5	0	11	C	16	2	8	1	2	C	16	2	11	1	5	B	4	8	0			B	4	10	0		
D	10	4	6			D	10	5	0			D	10	5	0			C	12	3	2	1	8	C	20	3	2	1	8
E	4	5	6			E	10	6	0			E	10	6	6			D	10	4	0			D	10	6	0		
G	4	9	6			G	4	10	0			G	4	10	6			E	4	7	0			E	10	7	0		
4'-6" x 4'-0"				J 20 2 2 0 8				J 22 2 2 0 8				G 4 11 0				G 4 11 0													
A	20	3	10	2	4	5'-0" x 4'-6"				5'-6" x 4'-6"				6'-0" x 3'-6"				J 24 2 8 1 2											
B	4	9	0			A	22	3	10	2	4	A	22	3	10	2	4	A	22	3	10	2	4	6'-0" x 5'-6"					
C	16	2	5	0	11	B	4	9	6			B	4	9	6			B	4	8	6			A	26	3	10	2	4
D	10	5	0			C	18	2	8	1	2	C	18	2	11	1	5	C	14	3	2	1	8	B	4	10	6		
E	10	5	6			D	10	5	6			D	10	5	6			D	10	4	6			C	22	3	2	1	8
G	4	9	6			E	10	6	0			E	10	6	6			E	4	7	0			D	10	6	6		
J	18	2	2	0	8	G	4	10	0			G	4	10	6			G	4	11	0			E	10	7	0		
4'-6" x 4'-6"				J 20 2 5 0 11				J 22 2 5 0 11				6'-0" x 4'-0"				G 4 11 0													
A	20	3	10	2	4	5'-0" x 5'-0"				5'-6" x 5'-0"				A 24 3 10 2 4				J 24 2 11 1 5											
B	4	9	6			A	24	3	10	2	4	A	24	3	10	2	4	B	4	9	0			6'-0" x 6'-0"					
C	18	2	5	0	11	B	4	10	0			B	4	10	0			C	16	3	2	1	8	A	28	3	10	2	4
D	10	5	6			C	20	2	8	1	2	C	20	2	11	1	5	D	10	5	0			B	4	11	0		
E	10	5	6			D	10	6	0			D	10	6	0			E	10	7	0			C	24	3	2	1	8
G	4	9	6			E	10	6	0			E	10	6	6			G	4	11	0			D	10	7	0		
J	18	2	5	0	11	G	4	10	0			G	4	10	6			J	24	2	2	0	8	E	10	7	0		
5'-0" x 3'-0"				J 20 2 8 1 2				J 22 2 8 1 2				G 4 11 0				J 24 3 2 1 8													
A	20	3	10	2	4	5'-6" x 3'-0"																							
B	4	8	0			A	20	3	10	2	4																		
C	12	2	8	1	2	B	4	8	0																				
D	10	4	0			C	12	2	11	1	5																		
E	4	6	0			D	10	4	0																				
G	4	10	0			E	4	6	6																				
						G	4	10	6																				

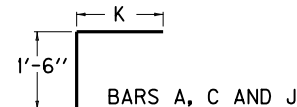
REFERENCE CHART			
DIA. OF PIPE	D.B.I. TYPE 7		CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0			—
12"	⑤	3'-0"	0.1
15"-18"			
21"-24"			
27"			
30"-33"			
36"			
42"	4'-6"	4'-6"	0.4
48"	5'-0"	5'-0"	0.5
54"	5'-6"	5'-6"	0.6
60"	6'-0"	6'-0"	0.7

~ NOTES ~

- ④ BASED ON "H" AS EQUAL TO D+T+1'-2".
- ⑤ FOR PIPE SIZES LESS THAN 42" USE APPLICABLE CURRENT RDB-SERIES.
- ⑥ Q=CUBIC YARDS OF CONCRETE PER FOOT INCREASE OR DECREASE WHEN "H" VARIES FROM D+T+1'-2".
7. NO DEDUCTIONS HAVE BEEN MADE FOR PIPE, SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT.
8. "T" IS CONCRETE PIPE WALL THICKNESS OR METAL PIPE CORRUGATION DEPTH.
9. D=INSIDE DIAMETER OF PIPE.
10. A, B AND G BARS SPACED 1'-0" O.C., C AND J BARS SPACED 6" O.C., ALL OTHER BARS SPACED AS SHOWN.

~ BAR NOTES ~

- ① NUMBER OF BARS IN ONE D.B.I. TYPE 7.
2. DIMENSIONS ARE 0. TO 0. OF BARS.
3. ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN BELOW.



BENT BAR SHAPES

USE WITH CUR. STD. DWG. RDB-007

<b>KENTUCKY</b>	
<b>DEPARTMENT OF HIGHWAYS</b>	
<b>DROP BOX INLET</b>	
<b>TYPE 7</b>	
<b>(DIMENSION &amp; STEEL CHARTS)</b>	
STANDARD DRAWING NO. RDB-008-04	
SUBMITTED <i>William S. Gullett</i>	12-01-15
DIRECTOR, DIVISION OF DESIGN	DATE
APPROVED <i>[Signature]</i>	12-01-15
STATE HIGHWAY ENGINEER	DATE