DIMENSIONS AND ESTIMATE OF QUANTITIES

INLET SIZE			PIPE		(4)	CONCRETE		REINF. STEEL
NO.	X	Y	MAX. DIA.	SIDE	H	CUBIC YARDS	(6) Q	LBS.
1	4'-6"	3'-0"	42"	X	5'-½"	4.3	0.4	240
2		3'-6"				4.7	0.5	252
3		4'-0"				5.0		348
4		4'-6"		X OR Y		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"		X OR Y		6.3	0.6	416
10	5'-6"	3'-0"	54"	X	6'-1½"	5.4	0.5	262
11		3'-6"				5.8		276
12		4'-0"				6.2		388
13		4'-6"				6.6	0.6	407
14		5'-0"				7.0		434
15		5'-6"		X OR Y		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	0.6	412
19		4'-6"				7.3		432
20		5'-0"				7.7		460
21		5'-6"				8.1		480
22		6'-0"		X OR Y		8.5	0.7	508

REFERENCE CHART

DIA. OF PIPE	D.B.I. TYPE 7 PIPE ON "X" SIDE OF INLET	D.B.I. TYPE 7 PIPE ON "Y" SIDE OF INLET	CONCRETE TO DEDUCT FOR EACH PIPE (CUBIC YARDS)
0	(5)	3'-0"	—
12"			0.1
15"-18"			
21"-24"			
27"			0.2
30"-33"		3'-6"	
36"		4'-0"	0.3
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

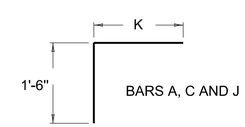
BILL OF REINFORCEMENT

NUMBER 5 REINFORCEMENT BARS

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

~ BAR NOTES ~

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



BENT BAR SHAPES

~ 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.

REVISION DATE: 12/01/2015
REVISION NUMBER: 0

SUBMITTED — DIVISION DIRECTOR — DATE 12-01-2015
APPROVED — STATE HIGHWAY ENGINEER — DATE 12-01-2015

DRAINAGE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY

INLETS

DROP BOX INLET TYPE 7 (DIMENSION & STEEL CHARTS)

STANDARD DRAWING NUMBER
RDB-008-04