

DIMENSIONS AND ESTIMATE OF QUANTITIES (PIPE CHAMBER-GRADE CONDITION)

REFERENCE CHART

INLET SIZE ④			MAX. PIPE DIA.	PIPE LOCATION	Z ①	CONCRETE			
NO. ⑥	X	Y				CU. YD.		Q	
						① ②	③		
1	2'-3"	1'-3"	12"	X OR Y	2'-2"	0.8	0.2		
2		2'-0"	15"	X	2'-5"				
3				X OR Y	1.0	0.3			
4		1'-3"	18"	X	2'-9"	0.9	0.2		
5		2'-0"		X OR Y		1.1	0.3		
6		1'-3"	21"	X	3'-0"	1.0	0.2		
7		2'-0"		X OR Y		1.2	0.3		
8		2'-6"		Y		3'-3"		1.3	
9			24"	X	1.4				
10	1'-3"			X OR Y	1.1				
11	2'-0"	Y		1.3					
12	2'-6"	X OR Y	1.5	1.6					
13	2'-3"	3'-0"	27"	X	3'-6"	1.7		0.4	
14	2'-6"	1'-3"				1.3			
15	3'-0"	2'-0"				1.6			
16		2'-6"		1.7					
17		3'-0"		X OR Y	1.9				
18	2'-3"	3'-6"		30"	Y	4'-1"	2.0		0.3
19	2'-6"						2.1		
20	3'-0"						2.3		
21	3'-6"	1'-3"			X	3'-10"	1.5		0.3
22		2'-0"	1.8						
23		2'-6"	2.0				0.4		
24		3'-0"	2.2						
25	3'-6"	3'-6"	X OR Y	4'-1"	2.5				
26			2'-3"	Y	4'-4"	2.1	0.4		
27			2'-6"			2.2			
28			3'-0"			2.4			
29	3'-6"	1'-3"	X	4'-1"	1.6	0.3			
30		2'-0"			1.9				
31		2'-6"			2.1		0.4		
32		3'-0"			2.3				
33	3'-6"	X OR Y	4'-4"	2.6					
34	2'-3"	4'-0"	36"	Y	4'-7"	2.4		0.4	
35	2'-6"					2.5			
36	3'-0"					2.7			
37	3'-6"					3.0			
38	4'-0"	1'-3"		X	4'-4"	1.8	0.3		
39		2'-0"				2.2			
40		2'-6"				2.4	0.4		
41		3'-0"				2.6			
42	3'-6"	4'-7"		3.0					
43	4'-0"			X OR Y	3.2	0.5			

INLET SIZE ④			MAX. PIPE DIA.	PIPE LOCATION	Z ①	CONCRETE		
NO. ⑥	X	Y				CU. YD.		Q
						① ②	③	
45	2'-3"	4'-6"	42"	Y	5'-2"	2.8	0.4	
46	2'-6"					2.9		
47	3'-0"	4'-6"	42"	Y	5'-2"	3.2	0.4	
48	3'-6"					3.4	0.5	
49	4'-0"					3.7		
50	4'-6"	1'-3"		X	4'-11"	2.2	0.3	
51		2'-0"				2.6	0.4	
52		2'-6"				2.8		
53		3'-0"				3.1	0.5	
54		3'-6"			3.4			
55		4'-0"			3.7			
56	4'-6"	4'-6"		X OR Y	5'-2"	4.0		
57	2'-3"	5'-0"	48"	Y	5'-8"	3.2	0.4	
58	2'-6"					3.3		
59	3'-0"					3.6	0.5	
60	3'-6"					3.9		
61	4'-0"					4.2		
62	4'-6"					4.5		
63	5'-0"	1'-3"		X	5'-5"	2.5	0.4	
64		2'-0"				3.0		
65		2'-6"				3.2	0.5	
66		3'-0"				3.5		
67		3'-6"			3.9			
68		4'-0"			4.2			
69		4'-6"			4.5			
70		5'-0"			5'-0"	X OR Y		4.8

DIA. OF PIPE	D.B.I. TYPE 13		CONCRETE TO DEDUCT FOR EACH PIPE
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
			CUBIC YARDS
0	2'-3"	1'-3"	---
12"		2'-0"	0.1
15"-18"			
21"			
24"	2'-6"		
27"	3'-0"	3'-0"	0.2
30"-33"	3'-6"	3'-6"	
36"	4'-0"	4'-0"	0.3
42"	4'-6"	4'-6"	0.4
48"	5'-0"	5'-0"	0.5

~ NOTES ~

- ① BASED ON "Z" AS EQUAL TO D+†+1'-0" WHEN "Y" DIMENSION IS LESS THAN 3'-6". BASED ON "Z" AS EQUAL TO D+†+1'-3" WHEN "Y" DIMENSION IS 3'-6" OR GREATER.
- ② SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT FOR PIPE.
- ③ Q = CU. YD. PER FT. INCREASE OR DECREASE WHEN Z VARIES.
- ④ SEE CUR. STD. DWGS. RDB-013 AND RDB-014 FOR DIMENSIONS.
5. SEE CUR. STD. DWGS. RDB-018 AND RDB-019 FOR STEEL REINFORCEMENT IN PIPE CHAMBER AND RISER WHEN H = 8'-0" OR GREATER.
- ⑥ INLET IS SHOWN ON PLANS AS "DROP BOX INLET TYPE 13". FOLLOWING THIS IS A NUMBER AND A BOX HEIGHT. USE THIS NUMBER WITH THIS CHART.
7. SEE CUR. STD. DWG. RDB-017 FOR DIMENSIONS AND ESTIMATE OF QUANTITIES WHEN BOXES ARE LOCATED IN A SAG CONDITION.

USE WITH CUR. STD. DWGS.
RDB-013 RDB-014 RDB-015
RDB-017 RDB-018 RDB-019

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

12-01-2015
DATE

SUBMITTED
DIVISION DIRECTOR

12-01-2015
DATE

APPROVED
STATE HIGHWAY ENGINEER

DRAINAGE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



INLETS

DROP BOX INLET TYPE (POPE CHAMBER-GRADE CONDITION)

STANDARD DRAWING NUMBER
RDB-016-03