

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

NO. ⑥	INLET SIZE ④		MAX. PIPE DIA.	PIPE LOCATION	Z ①	CONCRETE	
	X	Y				CU. YD. ①②	Q ③
71	4'-11"	1'-3"	12"	X OR Y	2'-2"	1.2	0.4
72		15"	X	2'-5"	1.3		
73		2'-0"	X OR Y	2'-5"	1.6		
74		1'-3"	X	2'-9"	1.4		
75		2'-0"	X OR Y	2'-9"	1.8		
76		1'-3"	X	3'-0"	1.5		
77		2'-0"			21"	1.9	
78		2'-6"	X OR Y	2.1			
79		1'-3"	X	3'-3"	1.6		
80		2'-0"			24"	2.0	
81		2'-6"	X OR Y	2.2			
82		1'-3"	X	3'-6"	1.7		
83		2'-0"			27"	2.1	
84		2'-6"			2.3		
85		3'-0"	X OR Y	2.5	0.5		
86		1'-3"	X	3'-10"	1.8		
87	2'-0"	2.2			0.4		
88	2'-6"	2.4					
89	3'-0"	2.7			0.5		
90	3'-6"	X OR Y	3.0				
91	1'-3"	X	4'-1"	1.9			
92	2'-0"			2.3	0.4		
93	2'-6"			33"		2.5	
94	3'-0"	X OR Y	4'-4"	2.8	0.5		
95	3'-6"			3.2			
96	1'-3"	X	4'-4"	2.0			
97	2'-0"			2.4	0.4		
98	2'-6"			2.7			
99	3'-0"			2.9	0.5		
100	3'-6"	3.3					
101	4'-0"	X OR Y	4'-7"	3.5			
102	1'-3"	X	4'-11"	2.2			
103	2'-0"			2.6	0.4		
104	2'-6"			2.9			
105	3'-0"			42"	3.2		
106	3'-6"	5'-2"	3.6	0.5			
107	4'-0"		3.8				
108	4'-6"	X OR Y	4.1				
109	1'-3"	X	5'-5"	2.4			
110	2'-0"			2.8	0.4		
111	2'-6"			3.1			
112	3'-0"			48"	3.4		
113	3'-6"	5'-8"	3.8	0.5			
114	4'-0"		4.1				
115	4'-6"		4.4				
116	5'-0"	X OR Y	4.6	0.6			

REFERENCE CHART

DIA. OF PIPE	D.B.I. TYPE 13		CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0	4'-11"	1'-3"	----
12"		2'-0"	0.1
15"-18"			
21"		2'-6"	0.2
24"			
27"		3'-0"	0.3
30"-33"		3'-6"	
36"		4'-0"	0.4
42"		4'-6"	0.4
48"		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 FOOT INCREASE OR DECREASE WHEN Z VARIES .
- ④ SEE CURRENT STD. DWGS. [RDB-013](#) AND [RDB-014](#) FOR DIMENSIONS.
5. SEE CUR. STD. DWG. [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 CURRENT STD. DWG. [RDB-016](#) FOR DIMENSIONS AND ESTIMATE OF QUANTITIES WHEN BOXES ARE LOCATED IN A GRADE CONDITION.

USE WITH CUR. STD. DWGS.
[RDB-013](#), 014, 015, 016, 018,
AND [RDB-019](#)

KENTUCKY	
DEPARTMENT OF HIGHWAYS	
DROP BOX INLET	
TYPE 13	
(PIPE CHAMBER-SAG CONDITION)	
STANDARD DRAWING NO. RDB-017-02	
SUBMITTED <i>John B. Sackett</i>	12-1-99
<small>DIRECTOR, DIVISION OF DESIGN</small>	<small>DATE</small>
APPROVED <i>J. M. Howell</i>	12-1-99
<small>STATE HIGHWAY ENGINEER</small>	<small>DATE</small>