

**DIMENSIONS AND ESTIMATE OF QUANTITIES
(GRADE CONDITION)**

INLET SIZE ④			MAX. PIPE DIA.	LOCATION	Z ①	CONCRETE	
NO. ⑥	X	Y				CU. YD. ①②	Q ③
1	2'-3"	2'-0"	12"	X OR Y	2'-2"	0.9	0.3
2			15"		2'-5"	1.0	
3			18"		2'-9"	1.1	
4		2'-6"	21"	X	3'-0"		
5				X OR Y			
6			Y	1.3			
7	2'-0"	24"	X		3'-3"		
8	2'-6"	X OR Y	1.4				
9	2'-0"				27"	1.5	
10	2'-6"	30"	1.7				
11	2'-0"			3'-10"	1.8		
12	2'-6"	0.4	2.0				
13	2'-0"		0.3	1.9			
14	2'-6"	33"		2.0			
15	2'-0"	36"	2.1				
16	2'-6"		4'-4"	2.3			
17	2'-0"	42"	2.5				
18	2'-6"		4'-11"	2.7			
19	2'-0"	48"	2.9				
20	2'-6"		5'-5"	3.2			

**DIMENSIONS AND ESTIMATE OF QUANTITIES
(SAG CONDITION)**

INLET SIZE ④			MAX. PIPE DIA.	LOCATION	Z ①	CONCRETE	
NO. ⑥	X	Y				CU. YD. ①②	Q ③
21	4'-11"	2'-0"	12"	X OR Y	2'-2"	1.4	0.4
22			15"		2'-5"	1.5	
23			18"		2'-9"	1.7	
24		2'-6"	21"	X	3'-0"		
25				X OR Y			
26			2'-0"	X	1.9		
27		2'-6"	X OR Y	3'-3"			
28		2'-0"	27"	3'-6"	2.0		
29		2'-6"					
30		2'-0"	30"	3'-10"	2.1		
31		2'-6"			0.4	2.3	
32		2'-0"	33"	4'-1"		2.2	
33	2'-6"	2.4					
34	2'-0"	36"	4'-4"	2.3			
35	2'-6"			2.5			
36	2'-0"	42"	4'-11"		2.5		
37	2'-6"			2.8			
38	2'-0"	48"	5'-5"		2.8		
39	2'-6"			3.0			

NOTES

- ① BASED ON Z AS EQUAL TO D+++12" .
- ② SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT FOR PIPE .
- ③ Q = CU. YD. PER FOOT INCREASE OR DECREASE WHEN Z VARIES .
- ④ SEE CUR. STD. DWG. RDB-030 FOR DIMENSIONS.
5. SEE CUR. STD. DWG. RDB-034 AND RDB-035 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 16". FOLLOWING THIS IS A NUMBER AND A BOX HEIGHT. USE THIS NUMBER WITH THIS CHART .

**REFERENCE CHART
(GRADE CONDITION)**

DIA. OF PIPE	D.B.I. TYPE 16		CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET	
0			----
12"	2'-3"	2'-0"	0.1
15"-18"			
21"			
24"	2'-6"	2'-6"	0.2
27"	3'-0"		
30"-33"	3'-6"	----	0.3
36"	4'-0"		
42"	4'-6"		
48"	5'-0"		

**REFERENCE CHART
(SAG CONDITION)**

DIA. OF PIPE	D.B.I. TYPE 16		CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS	
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET		
0			----	
12"	4'-11"	2'-0"	0.1	
15"-18"				
21"				
24"	2'-6"	2'-6"	0.2	
27"				
30"-33"	----	0.3		
36"			0.4	
42"				0.5
48"				

USE WITH CUR. STD. DWGS.:
RDI-200, RDB-014, RDB-030,
RDB-031, RDB-032, RDB-034,
RDB-035

KENTUCKY	
DEPARTMENT OF HIGHWAYS	
DROP BOX INLET TYPE 16	
(DIMENSIONS & ESTIMATE OF QUANTITIES)	
STANDARD DRAWING NO. RDB-033-02	
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>