

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

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

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

NO. ⑥	INLET SIZE ④		MAX. PIPE DIA.	LOCATION	Z ①	CONCRETE	
	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			21"		X	3'-0"	
25		2'-6"		X OR Y			
26			2'-0"		X	3'-3"	
27		2'-6"	X OR Y				
28		4'-11"	2'-0"	27"	3'-6"	2.1	
29							
30			2'-0"	33"	4'-1"	2.2	
31	2'-6"		36"			4'-4"	2.4
32	2'-0"			42"	4'-11"		2.3
33	2'-6"		48"			5'-5"	2.5
34	2'-0"			3.0			
35	2'-6"						
36	2'-0"						
37	2'-6"						
38	2'-0"						
39	2'-6"						

~ NOTES ~

- ① BASED ON "Z" AS EQUAL TO D++12" .
- ② SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT FOR PIPE.
- ③ Q = CU. YDS. PER FT. INCREASE OR DECREASE WHEN "Z" VARIES.
- ④ SEE CUR. STD. DWG. RDB-030 FOR DIMENSIONS.
5. SEE CUR. STD. DWGS. 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 CU. YDS.	
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET		
0	2'-3"	2'-0"	----	
12"				
15"-18"				
21"				
24"	2'-6"	2'-6"	0.1	
27"				3'-0"
30"-33"	4'-11"	----	0.2	
36"			4'-0"	0.3
42"			4'-6"	0.4
48"			5'-0"	0.5

**REFERENCE CHART
(SAG CONDITION)**

DIA. OF PIPE	D.B.I. TYPE 16		CONCRETE TO DEDUCT FOR EACH PIPE CU. YDS.	
	PIPE ON "X" SIDE OF INLET	PIPE ON "Y" SIDE OF INLET		
0	4'-11"	2'-0"	----	
12"				
15"-18"				
21"				
24"	2'-6"	2'-6"	0.1	
27"				3'-0"
30"-33"	4'-11"	----	0.2	
36"			4'-0"	0.3
42"			4'-6"	0.4
48"			5'-0"	0.5

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-033-03	
SUBMITTED <i>William P. Gullett</i>	DATE 12-01-15
<small>DIRECTOR</small>	<small>PRINICIPAL OF DESIGN</small>
APPROVED <i>[Signature]</i>	DATE 12-01-15
<small>STATE HIGHWAY ENGINEER</small>	<small>DATE</small>