

ENGLISHGDFLUMES.DGN - RCF 02-20 - THIS SHEET ISSUED 12-2020

Table of Flume Dimensions

S x H	K	M	V (3:1)	V (4:1)	L3	L2	N	O	P	R	T	U
3'x3'	9'-1"	9'-1"	2'-4 1/2"	2'-3 3/4"	13'-0"	2'-9"	1'-1"	3'-5"	9"	11"	9"	9"
4'x4'	11'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	11"	9"	9"
5'x3'	11'-6"	2'-3"	2'-4 1/2"	2'-3 3/4"	13'-0"	2'-0"	1'-1"	3'-6"	9"	11"	9"	9"
5'x4'	12'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	11"	9"	9"
5'x5'	12'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	11"	9"	9"
5'x6'	13'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	11"	9"	9"
6'x3'	12'-6"	2'-3"	2'-4 1/2"	2'-3 3/4"	13'-0"	2'-0"	1'-1"	3'-6"	9"	11"	9"	9"
6'x4'	13'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	11"	9"	9"
6'x5'	13'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	11"	9"	9"
6'x6'	14'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	11"	9"	9"
6'x7'	14'-6"	5'-3"	5'-6 1/2"	5'-5"	17'-0"	3'-0"	4'-2"	3'-9"	1'-3"	11"	9"	9"
6'x8'	15'-0"	6'-0"	6'-3 3/4"	6'-2 1/2"	18'-0"	3'-3"	4'-11"	4'-0"	1'-3"	11"	10"	10"
8'x4'	15'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	1'-0"	9"	9"
8'x5'	15'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	1'-0"	9"	9"
8'x6'	16'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	1'-0"	9"	9"
8'x7'	16'-6"	5'-3"	5'-6 1/2"	5'-5"	17'-0"	3'-0"	4'-2"	3'-9"	1'-3"	1'-0"	9"	9"
8'x8'	17'-0"	6'-0"	6'-3 3/4"	6'-2 1/2"	18'-0"	3'-3"	4'-11"	4'-0"	1'-3"	1'-0"	10"	10"
8'x9'	17'-6"	6'-9"	7'-1 3/4"	6'-11 1/2"	19'-0"	3'-6"	5'-8"	4'-3"	1'-3"	1'-0"	10"	10"
8'x10'	18'-0"	7'-6"	7'-10 1/2"	7'-8 3/4"	20'-0"	3'-9"	6'-6"	4'-6"	1'-3"	1'-0"	10"	10"
10'x4'	17'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	1'-1"	9"	9"
10'x5'	17'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	1'-1"	9"	9"
10'x6'	18'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	1'-1"	9"	9"
10'x7'	18'-6"	5'-3"	5'-6 1/2"	5'-5"	17'-0"	3'-0"	4'-2"	3'-9"	1'-3"	1'-1"	9"	9"
10'x8'	19'-0"	6'-0"	6'-3 3/4"	6'-2 1/2"	18'-0"	3'-3"	4'-11"	4'-0"	1'-3"	1'-1"	10"	10"
10'x9'	19'-6"	6'-9"	7'-1 3/4"	6'-11 1/2"	19'-0"	3'-6"	5'-8"	4'-3"	1'-3"	1'-1"	10"	10"
10'x10'	20'-0"	7'-6"	7'-10 1/2"	7'-8 3/4"	20'-0"	3'-9"	6'-6"	4'-6"	1'-3"	1'-1"	10"	10"
10'x11'	20'-6"	8'-3"	8'-8 1/2"	8'-6"	21'-0"	4'-0"	7'-3"	4'-9"	1'-3"	1'-1"	11"	11"
10'x12'	21'-0"	9'-0"	9'-5 1/2"	9'-3 3/4"	22'-0"	4'-3"	8'-0"	5'-0"	1'-3"	1'-1"	11"	11"
12'x4'	19'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	1'-2"	9"	9"
12'x5'	19'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	1'-2"	9"	9"
12'x6'	20'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	1'-2"	9"	9"
12'x7'	20'-6"	5'-3"	5'-6 1/2"	5'-5"	17'-0"	3'-0"	4'-2"	3'-9"	1'-3"	1'-2"	9"	9"
12'x8'	21'-0"	6'-0"	6'-3 3/4"	6'-2 1/2"	18'-0"	3'-3"	4'-11"	4'-0"	1'-3"	1'-2"	10"	10"
12'x9'	21'-6"	6'-9"	7'-1 3/4"	6'-11 1/2"	19'-0"	3'-6"	5'-8"	4'-3"	1'-3"	1'-2"	10"	10"
12'x10'	22'-0"	7'-6"	7'-10 1/2"	7'-8 3/4"	20'-0"	3'-9"	6'-6"	4'-6"	1'-3"	1'-2"	10"	10"
12'x11'	22'-6"	8'-3"	8'-8 1/2"	8'-6"	21'-0"	4'-0"	7'-3"	4'-9"	1'-3"	1'-2"	11"	11"
12'x12'	23'-0"	9'-0"	9'-5 1/2"	9'-3 3/4"	22'-0"	4'-3"	8'-0"	5'-0"	1'-3"	1'-2"	11"	11"
14'x4'	21'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	1'-2"	9"	9"
14'x5'	21'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	1'-2"	9"	9"
14'x6'	22'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	1'-2"	9"	9"
14'x7'	22'-6"	5'-3"	5'-6 1/2"	5'-5"	17'-0"	3'-0"	4'-2"	3'-9"	1'-3"	1'-2"	9"	9"
14'x8'	23'-0"	6'-0"	6'-3 3/4"	6'-2 1/2"	18'-0"	3'-3"	4'-11"	4'-0"	1'-3"	1'-2"	10"	10"
14'x9'	23'-6"	6'-9"	7'-1 3/4"	6'-11 1/2"	19'-0"	3'-6"	5'-8"	4'-3"	1'-3"	1'-2"	10"	10"
14'x10'	24'-0"	7'-6"	7'-10 1/2"	7'-8 3/4"	20'-0"	3'-9"	6'-6"	4'-6"	1'-3"	1'-2"	10"	10"
14'x11'	24'-6"	8'-3"	8'-8 1/2"	8'-6"	21'-0"	4'-0"	7'-3"	4'-9"	1'-3"	1'-2"	11"	11"
14'x12'	25'-0"	9'-0"	9'-5 1/2"	9'-3 3/4"	22'-0"	4'-3"	8'-0"	5'-0"	1'-3"	1'-2"	11"	11"
14'x13'	25'-6"	9'-9"	10'-3 3/4"	10'-1 1/2"	23'-0"	4'-6"	8'-10"	5'-3"	1'-3"	1'-2"	11"	11"
14'x14'	26'-0"	10'-6"	11'-0 1/2"	10'-9 1/2"	24'-0"	4'-9"	9'-7"	5'-6"	1'-3"	1'-3"	1'-1"	11"
16'x4'	23'-0"	3'-0"	3'-2"	2'-1 1/2"	14'-0"	2'-3"	1'-10"	3'-6"	1'-0"	1'-2"	9"	9"
16'x5'	23'-6"	3'-9"	3'-11 1/2"	3'-10 1/2"	15'-0"	2'-6"	2'-7"	3'-6"	1'-0"	1'-2"	9"	9"
16'x6'	24'-0"	4'-6"	4'-8 1/2"	4'-7 3/4"	16'-0"	2'-9"	3'-5"	3'-6"	1'-3"	1'-2"	9"	9"
16'x7'	24'-6"	5'-3"	5'-6 1/2"	5'-5"	17'-0"	3'-0"	4'-2"	3'-9"	1'-3"	1'-2"	9"	9"
16'x8'	25'-0"	6'-0"	6'-3 3/4"	6'-2 1/2"	18'-0"	3'-3"	4'-11"	4'-0"	1'-3"	1'-2"	10"	10"
16'x9'	25'-6"	6'-9"	7'-1 3/4"	6'-11 1/2"	19'-0"	3'-6"	5'-8"	4'-3"	1'-3"	1'-2"	10"	10"
16'x10'	26'-0"	7'-6"	7'-10 1/2"	7'-8 3/4"	20'-0"	3'-9"	6'-6"	4'-6"	1'-3"	1'-2"	10"	10"
16'x11'	26'-6"	8'-3"	8'-8 1/2"	8'-6"	21'-0"	4'-0"	7'-3"	4'-9"	1'-3"	1'-2"	11"	11"
16'x12'	27'-0"	9'-0"	9'-5 1/2"	9'-3 3/4"	22'-0"	4'-3"	8'-0"	5'-0"	1'-3"	1'-2"	11"	11"
16'x13'	27'-6"	9'-9"	10'-3 3/4"	10'-1 1/2"	23'-0"	4'-6"	8'-10"	5'-3"	1'-3"	1'-2"	11"	11"
16'x14'	28'-0"	10'-6"	11'-0 1/2"	10'-9 1/2"	24'-0"	4'-9"	9'-7"	5'-6"	1'-3"	1'-3"	1'-1"	11"

Table of Flume Concrete (CY)

Culv. Size S x H	3:1 Slope Flume								4:1 Slope Flume							
	L3 Total		L2 per Foot		Stub Curtain	Basin Curtain	L3 Total		L2 per Foot		Stub Curtain	Basin Curtain				
	Walls	Footing	Walls	Footing			Walls	Footing	Walls	Footing						
3'x3'	3.1	4.0	0.112	0.220	0.4	0.1	4.3	5.5	0.110	0.215	0.4	0.1				
4'x4'	4.3	5.0	0.156	0.256	0.6	0.2	5.9	6.8	0.153	0.250	0.6	0.2				
5'x3'	3.1	5.3	0.112	0.292	0.5	0.2	4.3	7.2	0.110	0.285	0.5	0.2				
5'x4'	4.3	5.6	0.156	0.292	0.7	0.3	5.9	7.8	0.153	0.285	0.7	0.3				
5'x5'	5.6	6.0	0.200	0.292	0.7	0.4	7.8	8.3	0.196	0.285	0.7	0.3				
5'x6'	7.1	6.4	0.244	0.292	0.9	0.5	9.8	8.9	0.239	0.285	0.9	0.5				
6'x3'	3.1	5.9	0.112	0.328	0.6	0.2	4.3	8.1	0.110	0.320	0.6	0.2				
6'x4'	4.3	6.3	0.156	0.328	0.8	0.3	5.9	8.7	0.153	0.320	0.8	0.3				
6'x5'	5.6	6.8	0.200	0.328	0.8	0.4	7.8	9.3	0.196	0.320	0.8	0.4				
6'x6'	7.1	7.2	0.244	0.328	1.0	0.6	9.8	10.0	0.239	0.320	1.0	0.6				
6'x7'	8.6	7.6	0.288	0.328	1.1	0.7	11.9	10.6	0.282	0.320	1.1	0.7				
6'x8'	11.4	8.9	0.369	0.362	1.2	0.8	15.9	12.4	0.360	0.354	1.2	0.8				
8'x4'	4.3	8.4	0.156	0.432	1.0	0.4	5.9	11.5	0.153	0.422	1.0	0.4				
8'x5'	5.6	8.9	0.200	0.432	1.0	0.5	7.8	12.3	0.196	0.422	1.0	0.5				
8'x6'	7.1	9.5	0.244	0.432	1.2	0.7	9.8	13.1	0.239	0.422	1.2	0.7				
8'x7'	8.6	10.0	0.288	0.432	1.3	0.8	11.9	13.9	0.282	0.422	1.3	0.8				
8'x8'	11.4	10.8	0.369	0.440	1.5	1.0	15.9	15.0	0.360	0.431	1.5	1.0				
8'x9'	13.5	11.3	0.417	0.440	1.6	1.1	18.7	15.9	0.408	0.431	1.6	1.1				
8'x10'	15.6	11.9	0.466	0.440	1.7	1.2	21.6	16.7	0.456	0.431	1.7	1.2				
10'x4'	4.3	10.6	0.156	0.549	1.1	0.4	5.9	14.6	0.153	0.537	1.1	0.4				
10'x5'	5.6	11.3	0.200	0.549	1.1	0.5	7.8	15.7	0.196	0.537	1.1	0.5				
10'x6'	7.1	12.0	0.244	0.549	1.4	0.8	9.8	16.7	0.239	0.537	1.4	0.8				
10'x7'	8.6	12.7	0.288	0.549	1.6	1.0	11.9	17.7	0.282	0.537	1.6	0.9				
10'x8'	11.4	13.7	0.369	0.558	1.7	1.1	15.9	19.1	0.360	0.546	1.7	1.1				
10'x9'	13.5	14.4	0.417	0.558	1.9	1.3	18.7	20.1	0.408	0.546	1.9	1.2				
10'x10'	15.6	15.1	0.466	0.558	2.0	1.4	21.6	21.1	0.456	0.546	2.0	1.4				
10'x11'	17.7	16.1	0.567	0.567	2.2	1.6	27.5	22.5	0.554	0.555	2.2	1.5				
10'x12'	24.4	17.1	0.677	0.576	2.4	1.7	34.2	24.0	0.662	0.564	2.3	1.7				
12'x4'	4.3	13.1	0.156	0.679	1.3	0.4	5.9	18.1	0.153	0.664	1.3	0.4				
12'x5'	5.6	14.0	0.200	0.679	1.3	0.6	7.8	19.4	0.196	0.664	1.3	0.6				
12'x6'	7.1	14.9	0.244	0.679	1.6	0.9	9.8	20.7	0.239	0.664	1.6	0.9				
12'x7'	8.6	15.8	0.288	0.679	1.8	1.1	11.9	21.9	0.282	0.664	1.8	1.1				
12'x8'	11.4	16.9	0.369	0.689	2.0	1.2	15.9	23.5	0.360	0.674	1.9	1.2				
12'x9'	13.5	17.7	0.417	0.689	2.1	1.4	18.7	24.8	0.408	0.674	2.1	1.4				
12'x10'	15.6	18.6	0.466	0.689	2.3	1.6	21.6	26.1	0.456	0.674	2.3	1.6				
12'x11'	17.7	19.8	0.567	0.699	2.5	1.8	27.5	27.8	0.554	0.683	2.5	1.7				
12'x12'	24.4	21.0	0.677	0.708	2.7	1.9	34.2	29.5	0.662	0.693	2.7	1.9				
14'x4'	4.3	14.9	0.156	0.770	1.4	0.5	5.9	20.5	0.153	0.753	1.4	0.5				
14'x5'	5.6	15.9	0.200	0.770	1.4	0.7	7.8	22.0	0.196	0.753	1.4	0.6				
14'x6'	7.1	16.9	0.244	0.770	1.8	1.0	9.8	23.4	0.239	0.753	1.8	1.0				
14'x7'	8.6	17.9														