12'-0" Width x 4'-0" Height

Fill Height (Ft.)	Top Slab										Bottom Slab										Sidewall						Mark "E" Distribution				Quantities	
	TS	J	K	Mark	Type	Length	A	B	C	D	BS	M	N	Mark	Type	Length	A	B	C	D	SW	P	R	Mark	Type	Length	W	X	Y	Z	Concrete CY/LF	Steel LBS/LF
0–2	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	12"	C	Str	5– 6	12"	5	10"	12"	1.26	207
2.01–5	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	12"	C	Str	5– 6	10"	5	12"	12"	1.26	203
5–10	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	12"	C	Str	5– 6	10"	5	12"	12"	1.26	250
10–15	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	12"	C	Str	5– 6	10"	5	12"	12"	1.26	250
15–20	14"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	15"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	12"	C	Str	6– 0	10"	5	12"	12"	1.52	252
20–25	16"	9	6"	A	1	16– 2	12– 4¼	1-11	0–11¾	13– 4	17"	9	6"	B	1	17– 2	13– 4¼	1-11	0–11¾	14– 4	10"	5	12"	C	Str	6– 4	10"	5	12"	12"	1.70	278
25–30	17"	10	5"	A	1	16– 7	12– 2¾	2– 2	1– 1¼	13– 4	18"	10	5"	B	1	17– 7	13– 2¾	2– 2	1– 1¼	14– 4	10"	5	12"	C	Str	6– 6	10"	5	12"	12"	1.78	405
30–35	19"	11	5"	A	1	17– 3	12– 5¼	2– 5	1– 2¾	13– 8	20"	11	5"	B	1	18– 3	13– 5¼	2– 5	1– 2¾	14– 8	12"	5	12"	C	Str	6–10	12"	5	12"	12"	2.05	505
35–40	22"	11	5"	A	1	17– 9	12–11¼	2– 5	1– 2¾	14– 2	23"	11	5"	B	1	18– 9	13–11¼	2– 5	1– 2¾	15– 2	15"	5	12"	C	Str	7– 4	15"	5	12"	12"	2.46	519

12'-0" Width x 6'-0" Height

Fill Height (Ft.)	Top Slab										Bottom Slab										Sidewall						Mark "E" Distribution				Quantities	
	TS	J	K	Mark	Type	Length	A	B	C	D	BS	M	N	Mark	Type	Length	A	B	C	D	SW	P	R	Mark	Type	Length	W	X	Y	Z	Concrete CY/LF	Steel LBS/LF
0–2	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	12"	C	Str	7– 6	12"	5	10"	12"	1.38	215
2.01–5	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	12"	C	Str	7– 6	10"	5	12"	12"	1.38	211
5–10	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	12"	C	Str	7– 6	10"	5	12"	12"	1.38	259
10–15	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	12"	C	Str	7– 6	10"	5	12"	12"	1.38	259
15–20	14"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	15"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	10"	C	Str	8– 0	10"	5	12"	12"	1.64	263
20–25	16"	9	5"	A	1	16– 2	12– 4¼	1-11	0–11¾	13– 4	17"	9	5"	B	1	17– 2	13– 4¼	1-11	0–11¾	14– 4	10"	5	9"	C	Str	8– 4	10"	5	12"	12"	1.82	337
25–30	18"	10	5"	A	1	16–11	12– 6¾	2– 2	1– 1¼	13– 8	19"	10	5"	B	1	17–11	13– 6¾	2– 2	1– 1¼	14– 8	12"	5	9"	C	Str	8– 8	12"	5	12"	12"	2.11	427
30–35	20"	11	5"	A	1	17– 3	12– 5¼	2– 5	1– 2¾	13– 8	21"	11	5"	B	1	18– 3	13– 5¼	2– 5	1– 2¾	14– 8	12"	5	8"	C	Str	9– 0	12"	5	12"	12"	2.29	523
35–40	23"	11	5"	A	1	17– 9	12–11¼	2– 5	1– 2¾	14– 2	24"	11	5"	B	1	18– 9	13–11¼	2– 5	1– 2¾	15– 2	15"	5	8"	C	Str	9– 6	15"	5	12"	12"	2.74	537

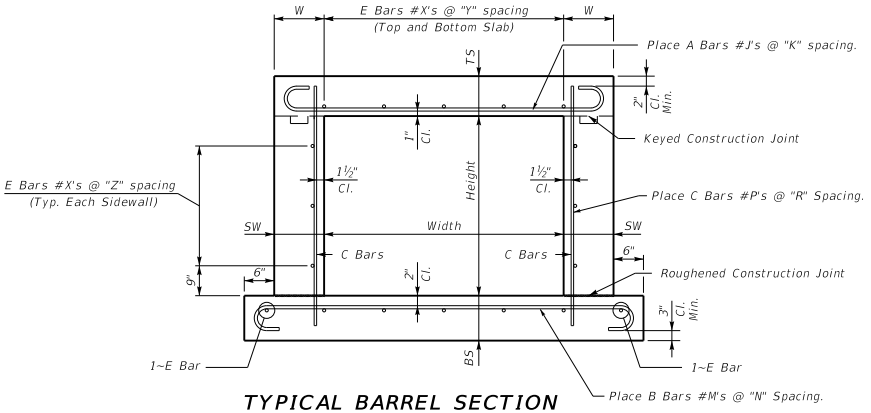
12'-0" Width x 8'-0" Height

Fill Height (Ft.)	Top Slab										Bottom Slab										Sidewall						Mark "E" Distribution				Quantities	
	TS	J	K	Mark	Type	Length	A	B	C	D	BS	M	N	Mark	Type	Length	A	B	C	D	SW	P	R	Mark	Type	Length	W	X	Y	Z	Concrete CY/LF	Steel LBS/LF
0–2	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	12"	C	Str	9– 6	12"	5	10"	12"	1.51	223
2.01–5	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	12"	C	Str	9– 6	10"	5	12"	12"	1.51	219
5–10	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	10"	C	Str	9– 6	10"	5	12"	12"	1.51	271
10–15	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	9"	C	Str	9– 6	10"	5	12"	12"	1.51	274
15–20	14"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	15"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	7"	C	Str	10– 0	10"	5	12"	12"	1.77	283
20–25	17"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	18"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	6"	C	Str	10– 6	10"	5	12"	12"	2.03	291
25–30	18"	11	5"	A	1	17– 3	12– 5¼	2– 5	1– 2¾	13– 8	19"	11	5"	B	1	18– 3	13– 5¼	2– 5	1– 2¾	14– 8	12"	5	7"	C	Str	10– 8	12"	5	12"	12"	2.25	537
30–35	20"	11	5"	A	1	17– 3	12– 5¼	2– 5	1– 2¾	13– 8	21"	11	5"	B	1	18– 3	13– 5¼	2– 5	1– 2¾	14– 8	12"	5	5"	C	Str	11– 0	12"	5	12"	12"	2.43	554
35–40	23"	11	5"	A	1	17– 9	12–11¼	2– 5	1– 2¾	14– 2	24"	11	5"	B	1	18– 9	13–11¼	2– 5	1– 2¾	15– 2	15"	5	6"	C	Str	11– 6	15"	5	12"	12"	2.92	560

12'-0" Width x 10'-0" Height

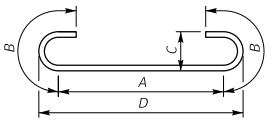
Fill Height (Ft.)	Top Slab										Bottom Slab										Sidewall						Mark "E" Distribution				Quantities	
	TS	J	K	Mark	Type	Length	A	B	C	D	BS	M	N	Mark	Type	Length	A	B	C	D	SW	P	R	Mark	Type	Length	W	X	Y	Z	Concrete CY/LF	Steel LBS/LF
0–2	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	11"	C	Str	11– 6	12"	5	10"	12"	1.63	234
2.01–5	11"	7	5"	A	1	15– 1	12– 9	1– 2	0– 7	13– 4	12"	7	5"	B	1	16– 1	13– 9	1– 2	0– 7	14– 4	10"	5	9"	C	Str	11– 6	10"	5	12"	12"	1.63	236
5–10	11"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	12"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	7"	C	Str	11– 6	10"	5	12"	12"	1.63	293
10–15	12"	8	5"	A	1	15– 2	12– 8	1– 3	0– 8	13– 4	13"	8	5"	B	1	16– 2	13– 8	1– 3	0– 8	14– 4	10"	5	6"	C	Str	11– 8	10"	5	12"	12"	1.72	300
15–20	15"	8	5"	A	1	15– 6	13– 0	1– 3	0– 8	13– 8	16"	8	5"	B	1	16– 6	14– 0	1– 3	0– 8	14– 8	12"	6	8"	C	Str	12– 2	12"	5	12"	12"	2.13	311
20–25	17"	10	7"	A	1	16–11	12– 6¾	2– 2	1– 1¼	13– 8	18"	10	7"	B	1	17–11	13– 6¾	2– 2	1– 1¼	14– 8	12"	6	7"	C	Str	12– 6	12"	5	12"	12"	2.31	372
25–30	18"	11	5"	A	1	17– 9	12–11¼	2– 5	1– 2¾	14– 2	19"	11	5"	B	1	18– 9	13–11¼	2– 5	1– 2¾	15– 2	15"	6	8"	C	Str	12– 8	15"	5	12"	12"	2.65	573
30–35	21"	11	5"	A	1	17– 9	12–11¼	2– 5	1– 2¾	14– 2	22"	11	5"	B	1	18– 9	13–11¼	2– 5	1– 2¾	15– 2	15"	6	7"	C	Str	13– 2	15"	5	12"	12"	2.92	584
35–40	24"	11	5"	A	1	18– 3	13– 5¼	2– 5	1– 2¾	14– 8	25"	11	5"	B	1	19– 3	14– 5¼	2– 5	1– 2¾	15– 8	18"	6	7"	C	Str	13– 8	18"	5	12"	12"	3.46	599

NOTE:
Bar Dimensions are per bar.

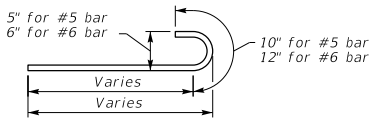


TYPICAL BARREL SECTION

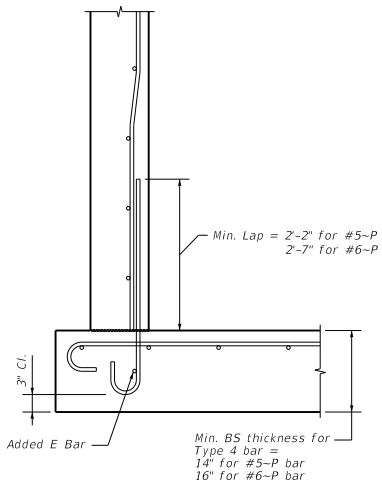
NOTE:
A & B bars may need to be rotated to maintain shown clearances.



TYPE 1



TYPE 4



OPTIONAL HOOK DETAIL

NOTE:
The contractor will not be paid additionally if optional hook detail is used.

KENTUCKY
DEPARTMENT OF HIGHWAYS

STANDARD CULVERT
12' - 0" WIDTH

STANDARD DRAWING NO. BSC-005

SUBMITTED _____ 02-26-20
DIRECTOR DIVISION OF STRUCTURAL DESIGN — DATE

APPROVED _____ 02-26-20
STATE HIGHWAY ENGINEER — DATE