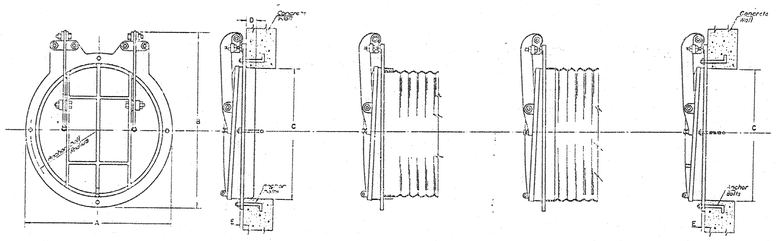
DATE	STATE	PROJECT	SHEET	SHEET NO.
6-6-69	KANSAS	813-101(52)	30-01	9.0



ELEVATION | SIDE VIEW & SECTION THRU CONCRETE WALL SPIGOT BACK | SIDE VIEW & SECTION THRU CORRUGATED METAL PIPE SPIGOT BACK | SIDE VIEW & SECTION THRU CORRUGATED METAL PIPE SPIGOT BACK | SIDE VIEW & SECTION THRU CONCRETE WALL FLAT BACK

FLAT BACK & SPIGOT BACK CAST IRON FRAME AND GATE

INSTALLATION WITH CONCRETE WALL & ATTACHED TO CORRUGATED METAL PIPE.

Gate Size Diameter	A	B	C	D	E	Weight Pounds	Anchor Bolts Diam	Number	Size
24"	13½"	15½"	33"	2"	1"	50	⅝	2	2½
30"	16"	18½"	11"	2"	1"	60	⅝	2	2½
42"	18"	20½"	12"	2"	1"	85	⅝	2	2½
48"	22½"	25½"	13"	2"	1"	140	¾	2	3"
54"	24½"	28½"	18"	2"	1"	165	¾	2	3½
60"	27"	31½"	20½"	2"	1"	225	¾	2	3½
66"	30"	34½"	22½"	2"	1"	300	¾	2	3½
72"	32"	36½"	24"	2"	1"	425	1	2	4½
80"	40"	39½"	27½"	3"	1"	625	1	2	4½
90"	50"	49½"	31½"	3"	1"	780	1	2	5½
96"	53"	52½"	33½"	3"	1"	1020	1	2	6"
102"	56½"	55½"	35½"	4"	1"	1305	1	2	6½
108"	59"	58½"	37½"	4"	1"	1700	1	2	7"
120"	65"	90	42½"	4"	1½"	2450	1"	2	8"
132"	84"	103½"	70½"	4"	1½"	3900	1"	2	10½"
144"	100"	119½"	80"	4"	2"	5000	1½"	2	12½"

*NOTE- Automatic flap gates shall conform to the dimensions and approximate weights shown in the table. The gate shall be installed in accordance with the manufacturers recommendations. When gate is mounted on face of the pipe, the flap shall seat on the finished frame. Seating surfaces of both frame and flap shall be cast iron and machined to a close fit.
Anchor bolts, nuts and lock washers shall be cast iron, and for bolts over 1" dia. bolts and nuts shall be galvanized steel.
The gate is designed to withstand a maximum operating head of twenty (20) feet on the crack 3.80 measured from the center line of the gate to the high water level.
The illustrations, notes and table of dimensions shown are for Armco Model 200, however, other approved makes may be used.

STATE HIGHWAY COMMISSION OF KANSAS

AUTOMATIC FLAP GATE

STD. NO. 5151 — 10-6-69