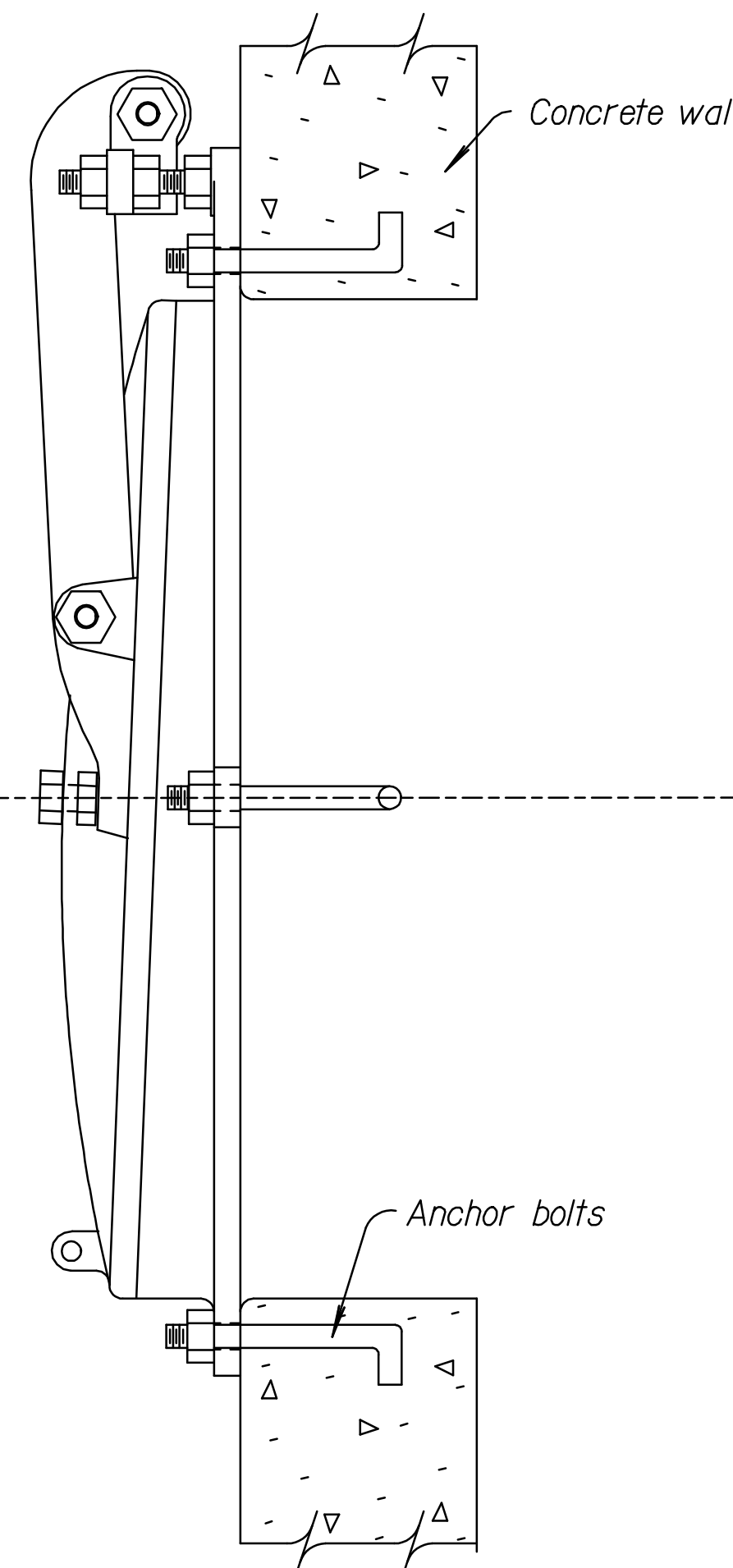
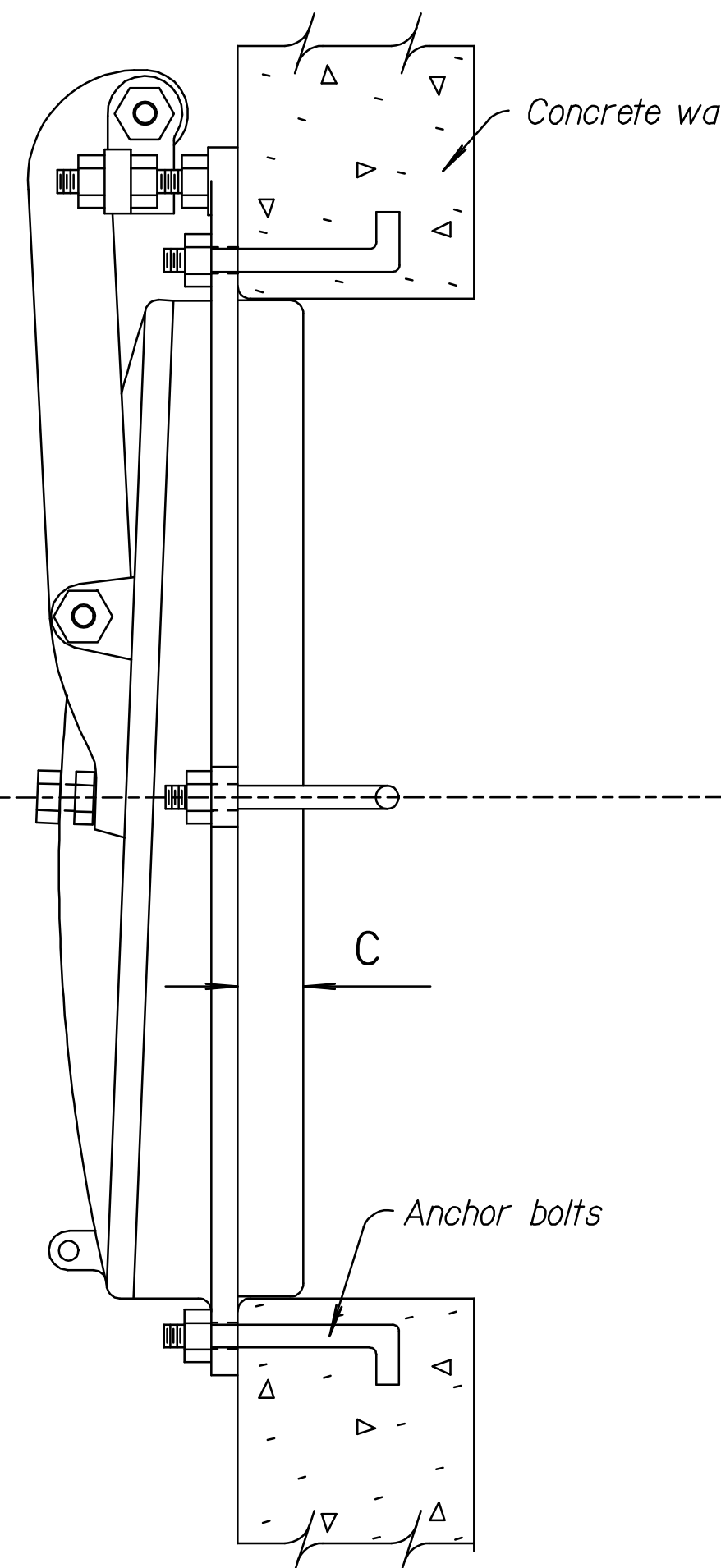


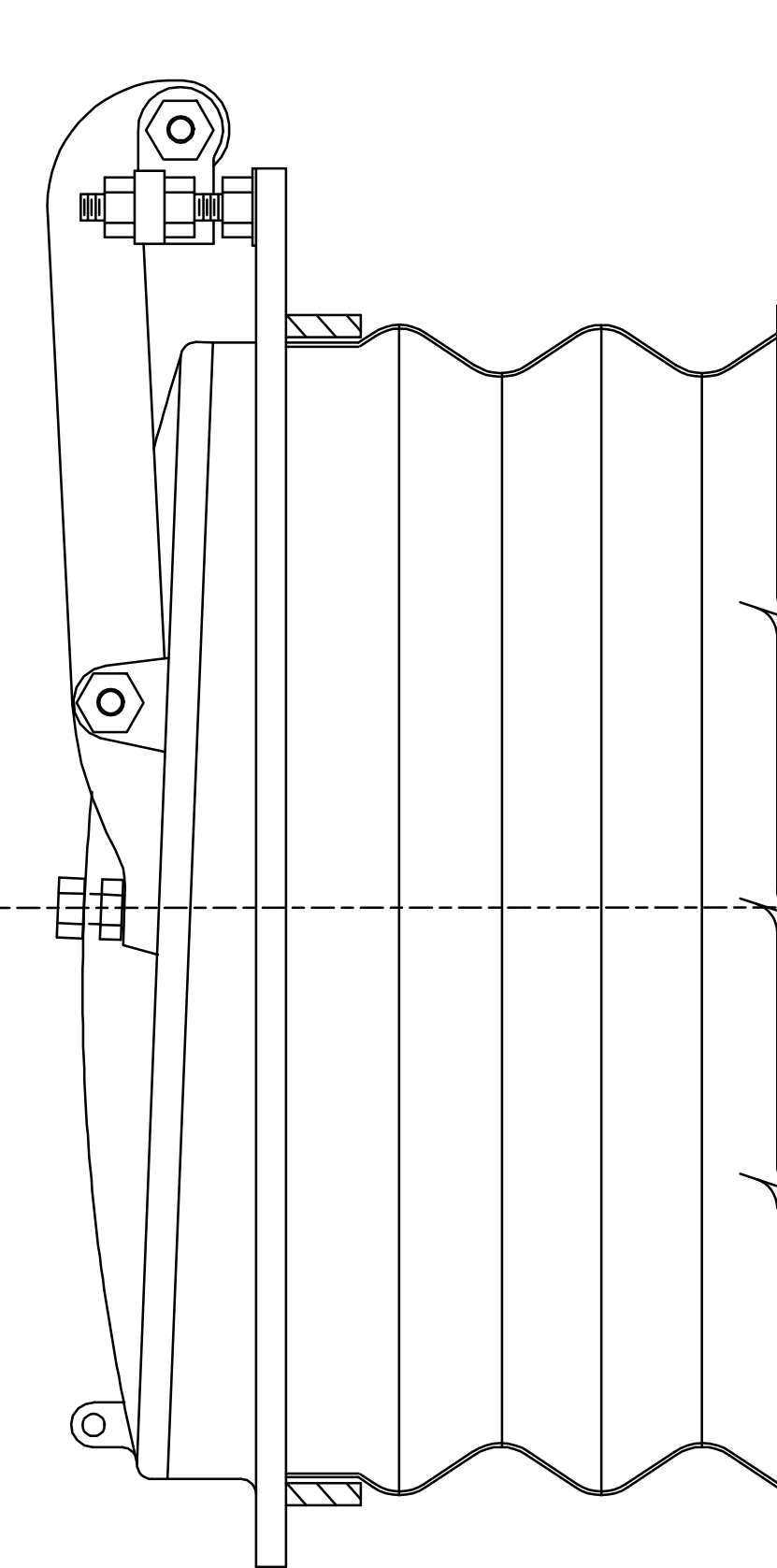
ELEVATION



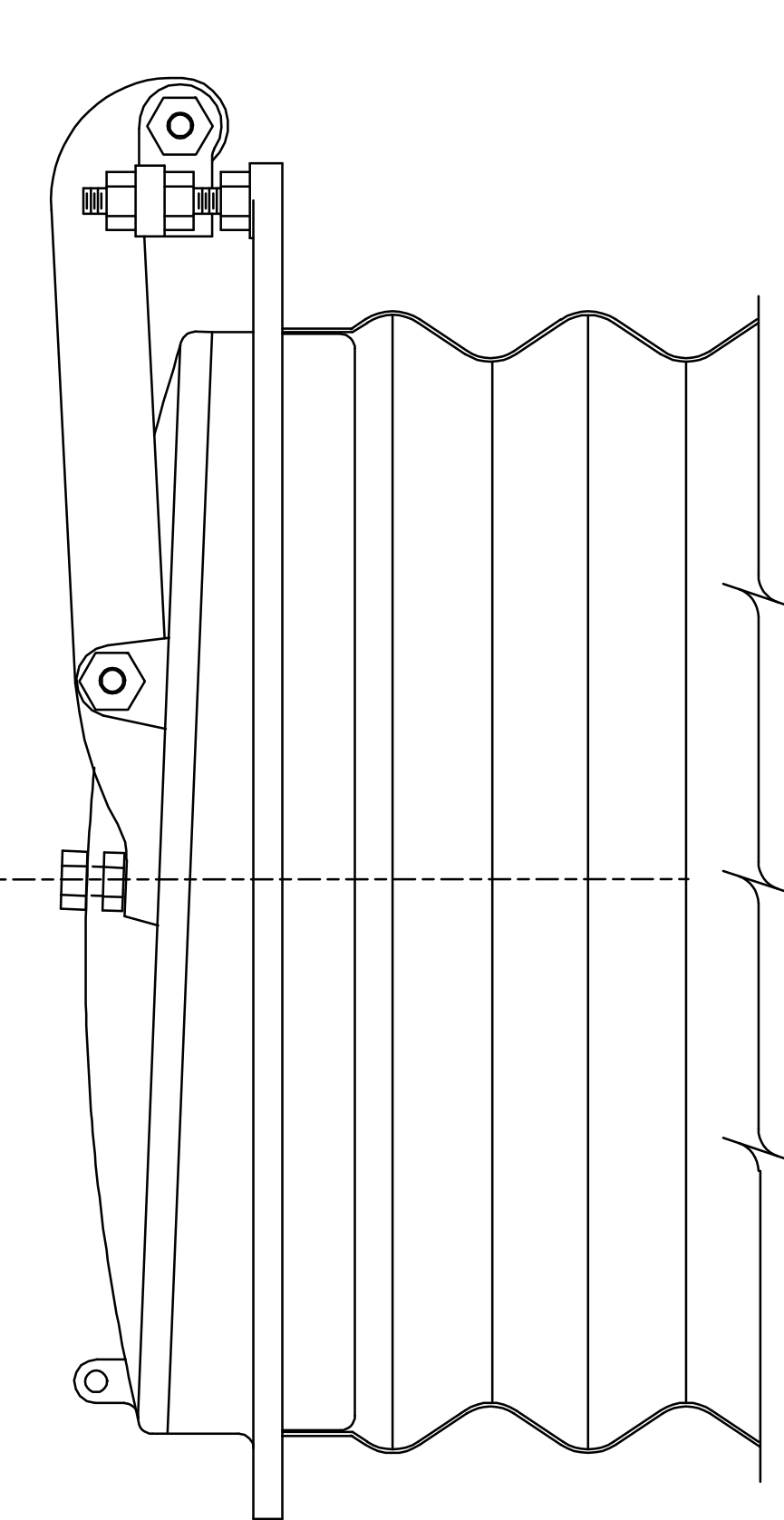
SIDE VIEW & SECTION THRU CONCRETE WALL FLAT BACK



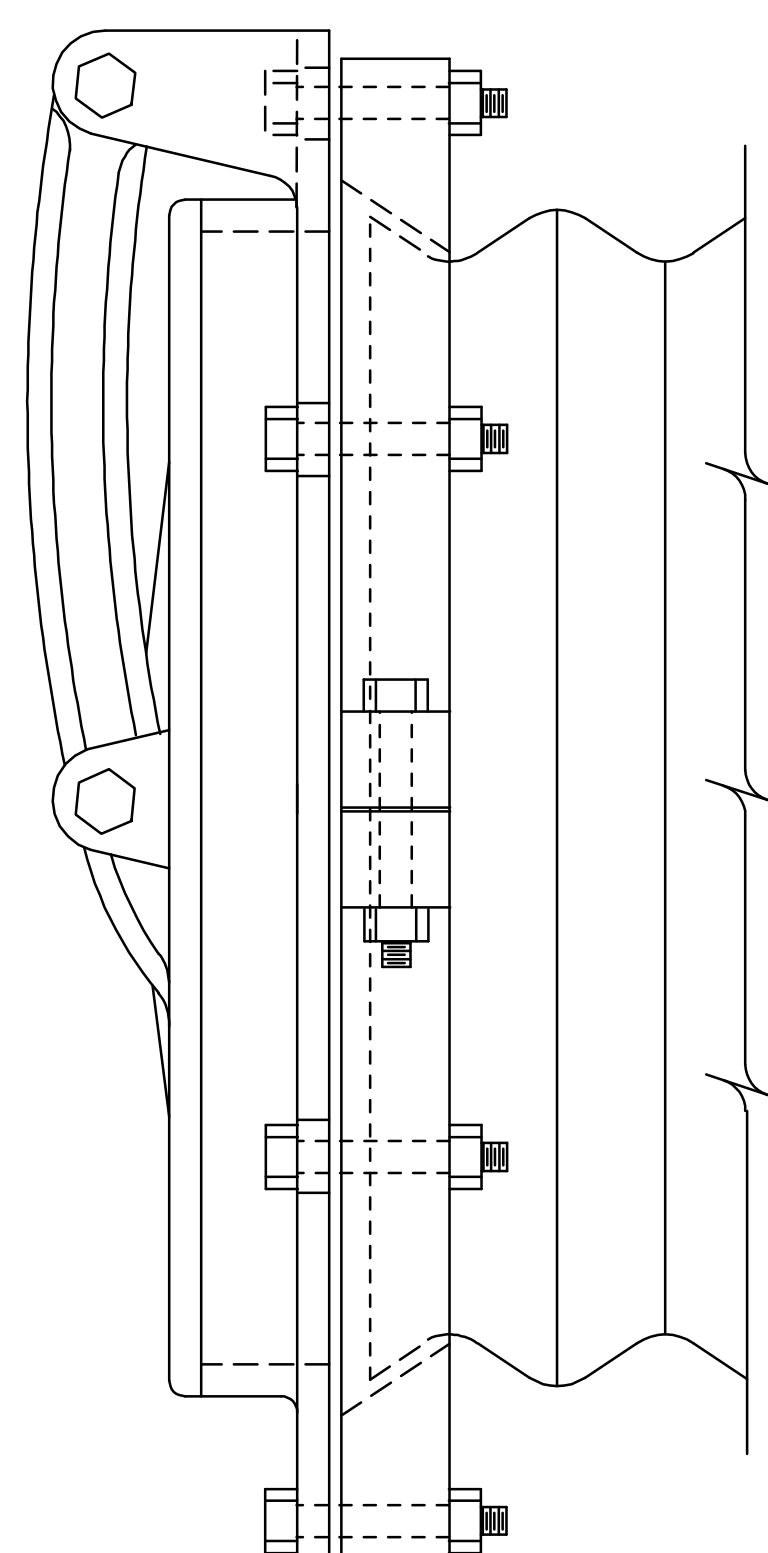
SIDE VIEW & SECTION THRU CONCRETE WALL SPIGOT BACK



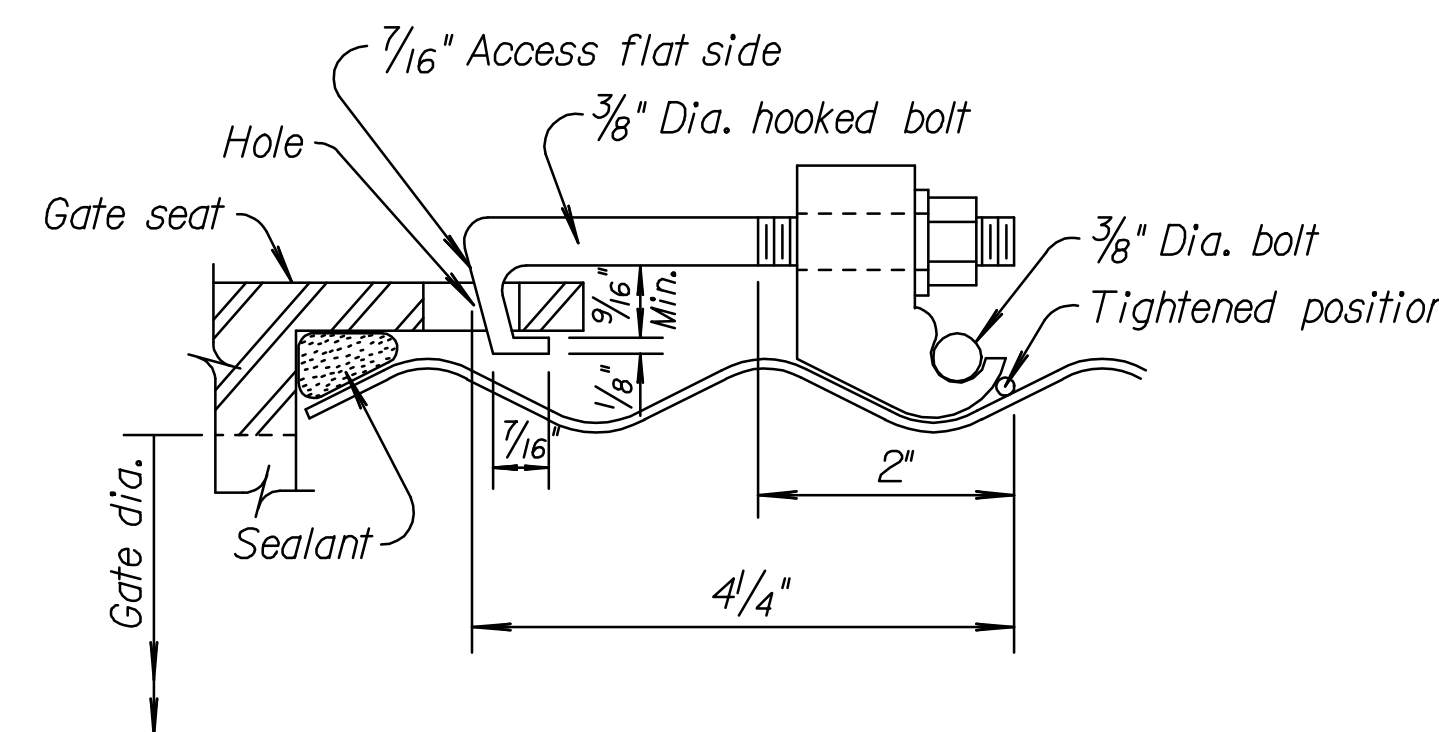
SIDE VIEW & SECTION THRU CORRUGATED METAL PIPE SPIGOT BACK



SIDE VIEW & SECTION THRU CORRUGATED METAL PIPE SPIGOT BACK



ALTERNATE CONNECTION BAND



ALTERNATE CONNECTION TO CORRUGATED STEEL PIPE

Gate sizes from 12" to 24" dia., use 4 hooked bolts.  
 Gate sizes from 30" to 36" dia., use 6 hooked bolts.  
 Gate sizes from 42" to 48" dia., use 8 hooked bolts.

GATE SIZE DIAMETER	A	B	C
8"	13 1/2"	14 1/2"	1 1/4"
10"	16"	16 3/4"	1 1/4"
12"	19"	19 3/4"	1 1/4"
15"	22 1/4"	23 7/8"	1 1/4"
18"	24 3/4"	28 1/8"	1 1/4"
21"	28"	30 1/2"	1 1/4"
24"	32"	35 1/8"	1 1/4"
30"	37"	42"	2"
36"	44"	49 1/2"	2"
42"	50 3/4"	57 1/8"	2 1/2"
48"	57"	66 1/4"	2 1/2"
54"	64 1/4"	71 7/8"	2 3/4"
60"	69"	80 1/2"	2 3/4"
66"	80"	90"	2 3/4"
72"	82"	95 1/8"	3"
84"	100"	112 1/8"	3"
96"	113 1/4"	125 7/8"	3"

GENERAL NOTES

Automatic flap gates shall conform to the dimensions shown in the tables. The gate shall be installed in accordance with the manufacturers' recommendations.

When no water is against the face of the gate, 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.

The gate flap, frame and links shall be cast iron. Anchor bolts, assembly bolts and nuts shall be galvanized steel.

The gate is designed to withstand a maximum operating head of twenty (20) feet on the check side, measured from the center line of the gate to the high water level.

The illustrations, notes and table of dimensions shown are recommended for gates designed for 20 feet of operating head. Other approved makes may be substituted with the approval of the Engineer.

NO.	DATE	REVISIONS	BY	APP'D
7	12-27-93	Delete paint note		R.J.S. J.O.B.
6	4-9-92	Alt. conn. band, ent. on CADD		R.J.S. J.O.B.
5	7-5-90	Revised paint note		R.J.S. J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

AUTOMATIC FLAP GATE

DESIGNED	2-15-94	APP'D.	James O. Brewer
DESIGN CK.	DETAILED	QUANTITIES	TRACED
	DETAIL CK.	QUAN. CK.	TRACE CK.