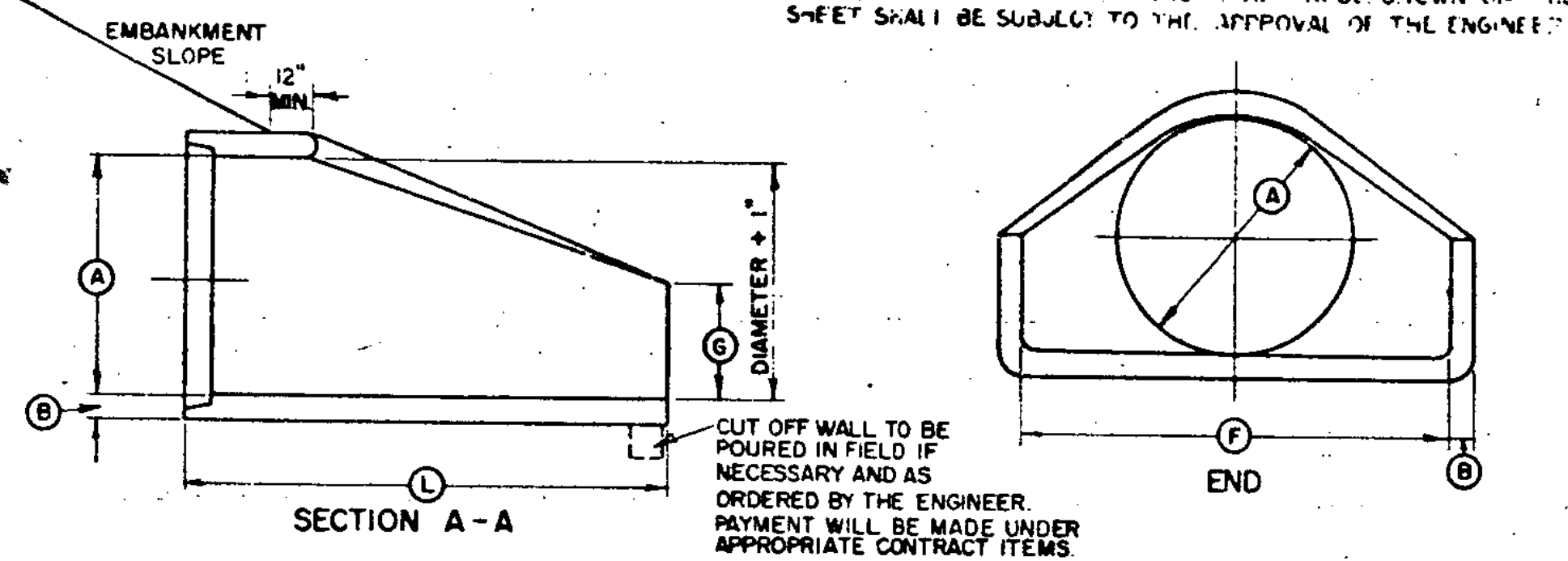
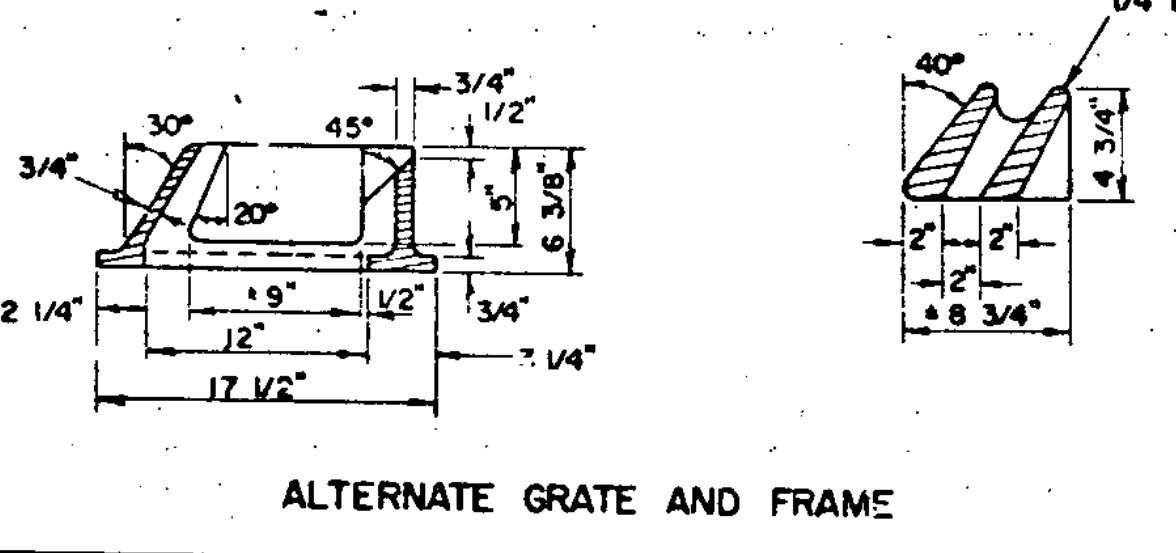
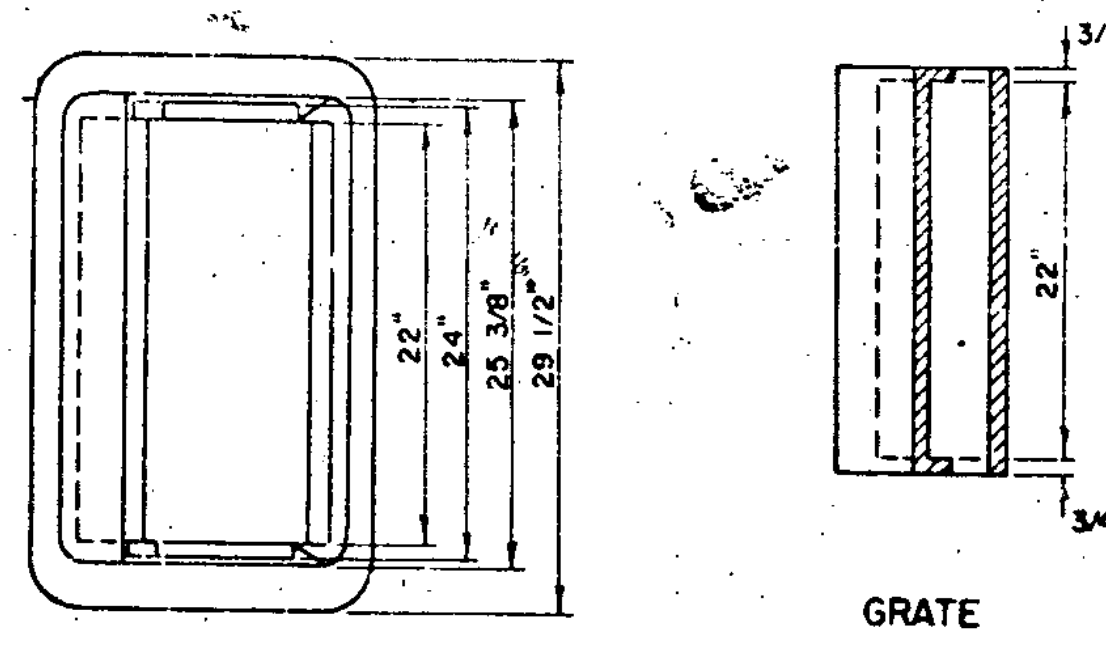


THE USE OF PLANS, ELEVATIONS AND SECTIONS MAY VARY IN BASIC DIMENSIONS FROM THOSE SHOWN ON THIS SHEET SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.



CUT OFF WALL TO BE POURED IN FIELD IF NECESSARY AND AS ORDERED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

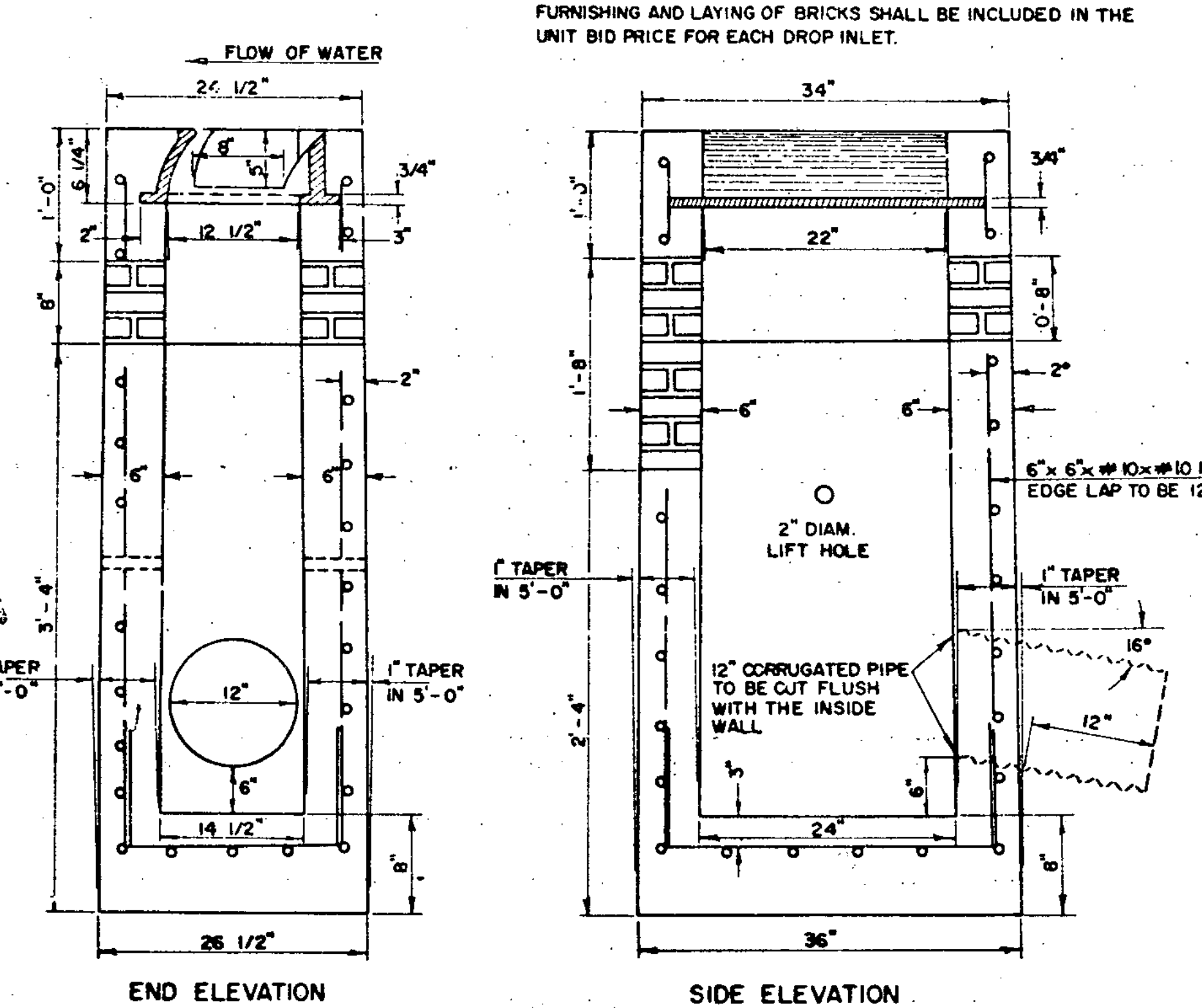


NOTE: JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT AS REQUIRED AND DIMENSIONS SHALL CONFORM TO STANDARD REINFORCED CONCRETE PIPE SPECIFICATIONS.

REINFORCED CONCRETE PIPE END SECTION

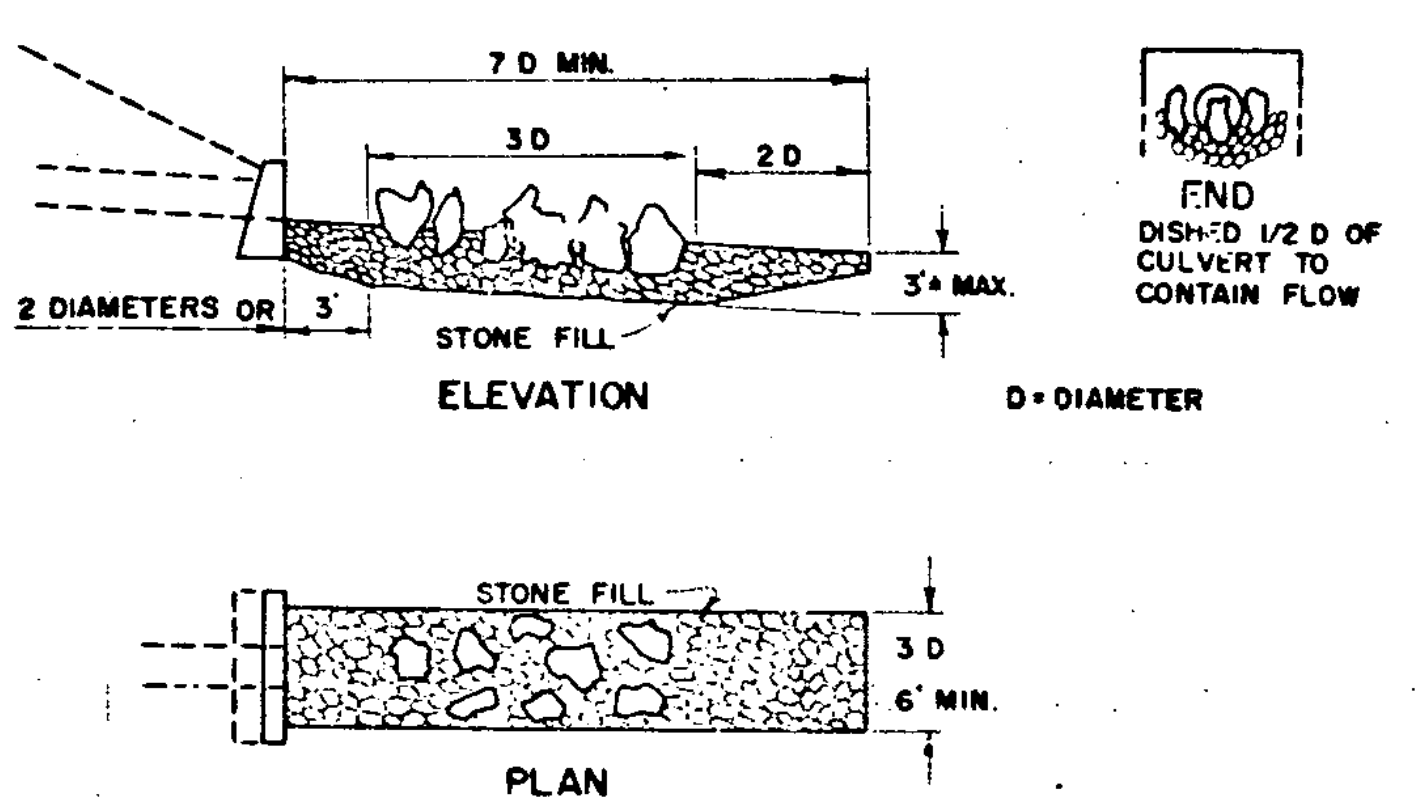
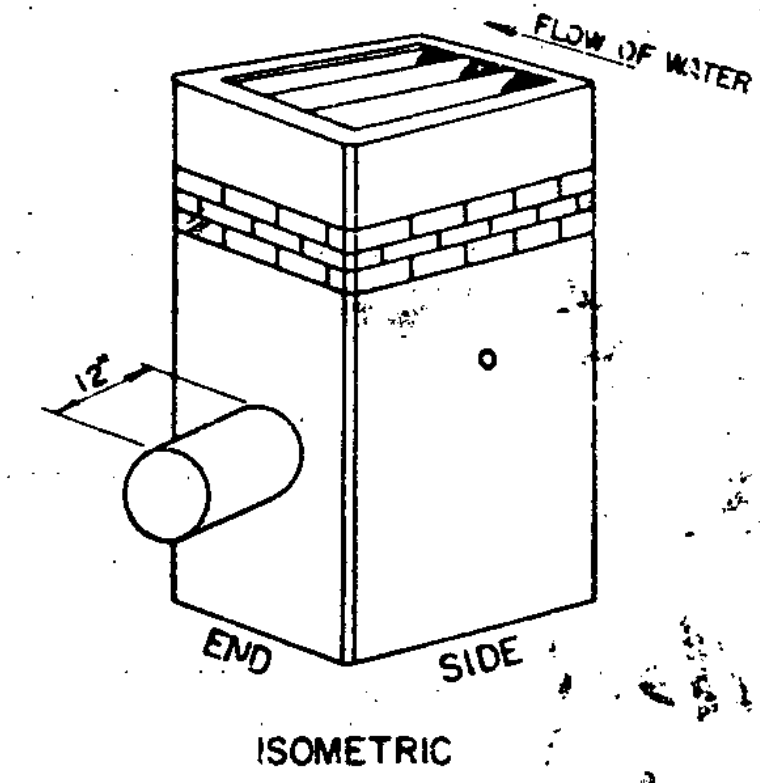
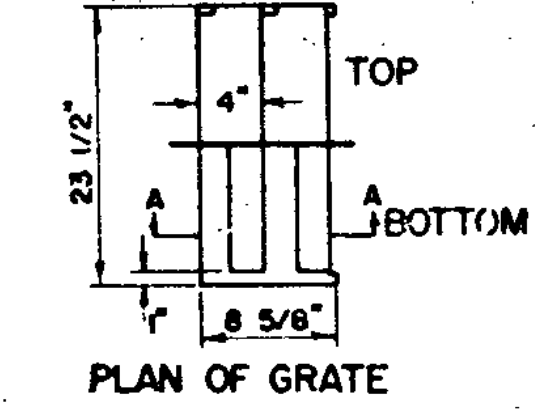
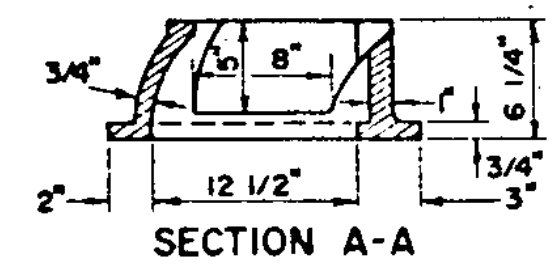
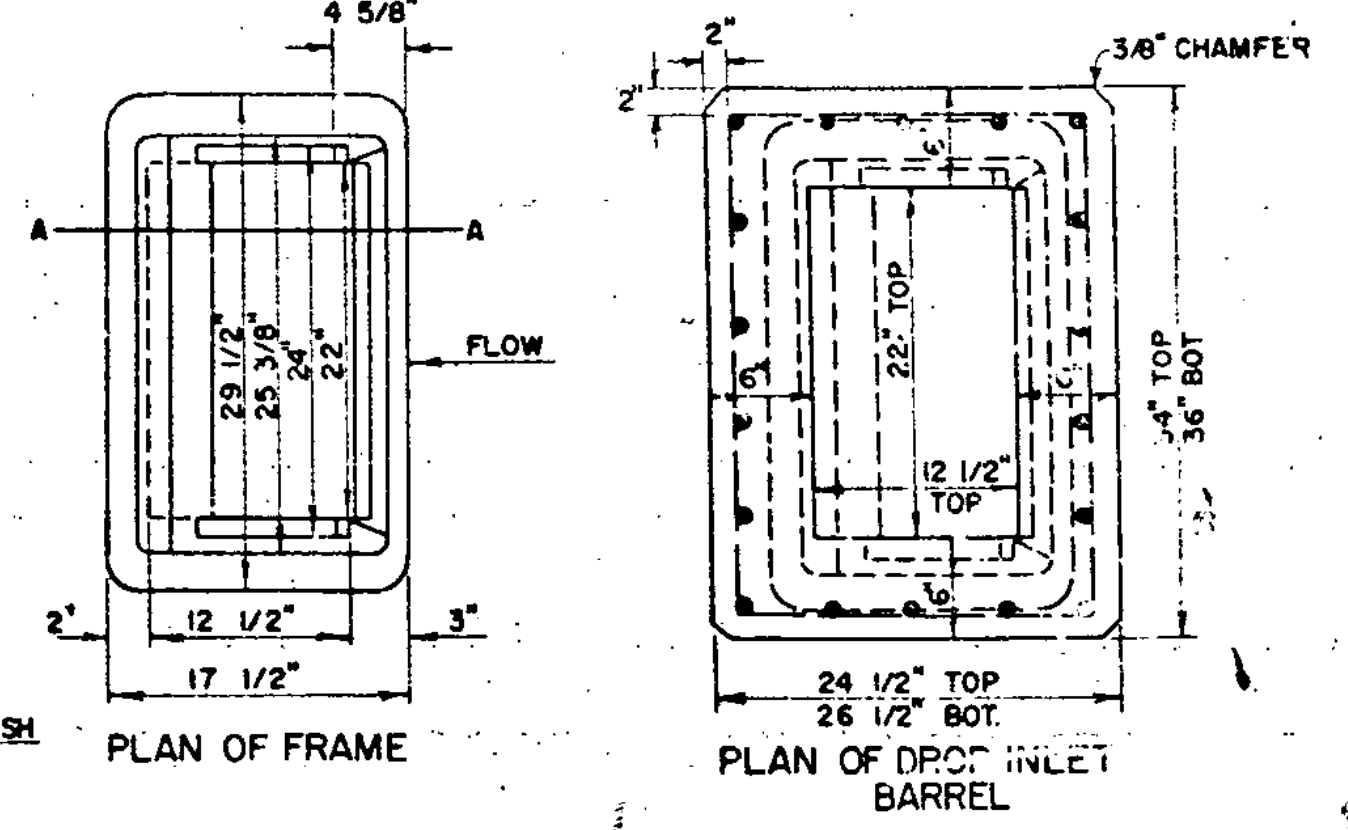
BASIC DIMENSIONS													
A	B	C	D	E	F	G	H	DIAM. +1"	SLOPE	R ₁	R ₂	RATIO $\frac{R_1}{R_2}$	L
12"	2"	SEE NOTE	48 3/8"	24"	24"	4"	19 15/16"	13"	2.7:1	10 1/8"	9"	1.92	6'-0 3/8"
18"	2 1/2"		46"	24"	36"	9"	29"	19"	2.7:1	15 1/2"	12"	1.88	6'-1"
24"	3"		30"	43 1/2"	48"	9 1/2"	33 3/16"	25"	2.8:1	16 13/16"	14"	1.58	6'-1 1/2"
30"	3 1/2"		19 3/4"	54"	60"	12"	37"	31"	2.8:1	18 1/2"	15"	1.41	6'-1 3/4"
36"	4"		34 3/4"	63"	72"	15"	47 13/16"	37"	2.9:1	24 5/16"	20"	1.50	8'-1 3/4"
42"	4 1/2"		35"	63"	78"	21"	53 7/8"	43"	2.9:1	27 1/2"	22"	1.46	8'-2"
48"	5"		26"	72"	87"	24"	59 1/2"	49"	2.9:1	30"	22"	1.40	8'-2"

AREA - 1 AREA OF NOMINAL DIAMETER
AREA - 2 AREA THRU SECTION E-B



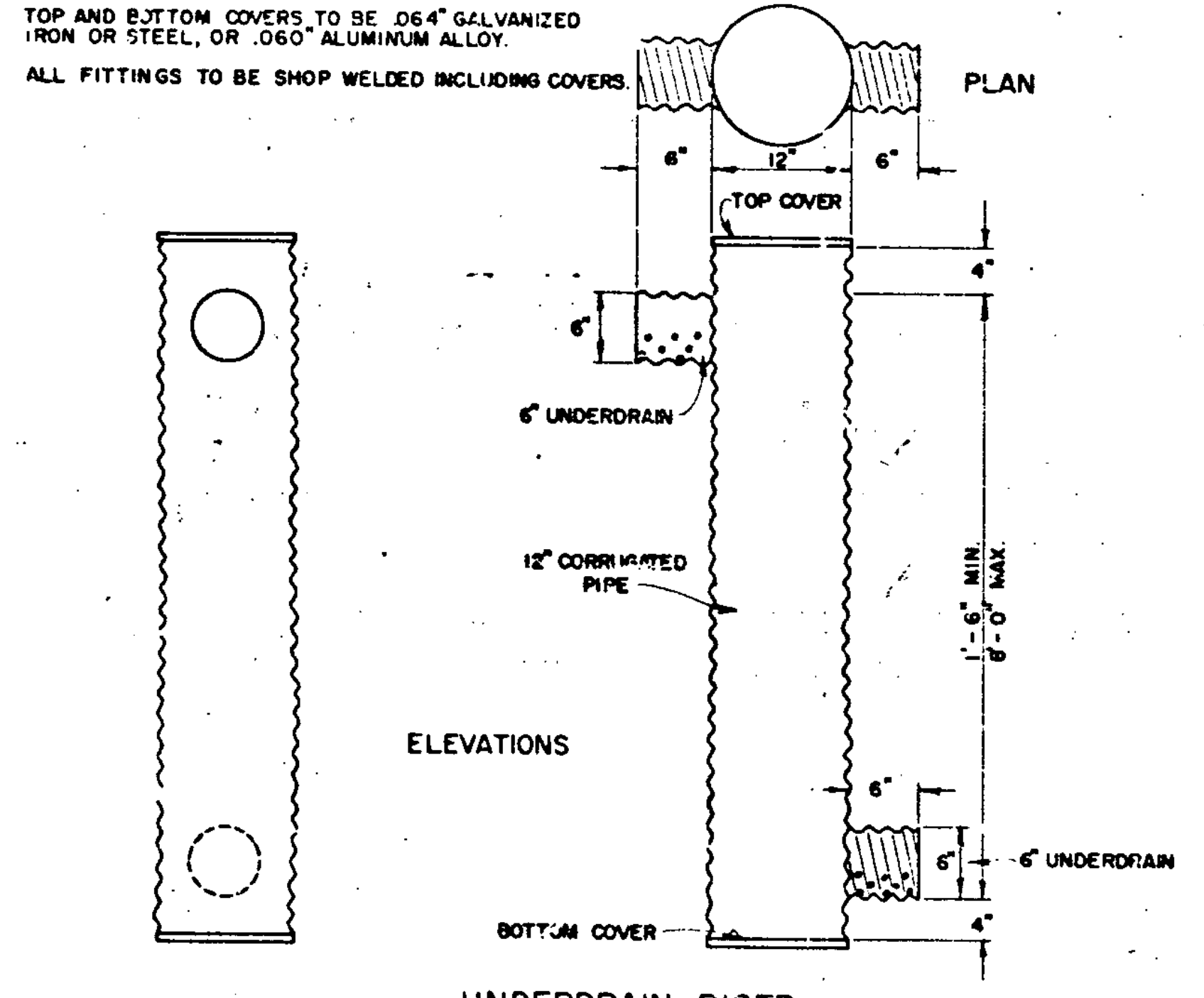
ALLOW FOR 1'-8" OF BRICKS ON SIDE OPPOSITE OUTLET PIPE
0'-8" BRICKS ON OTHER 3 SIDES.

PRECAST REINFORCED CONCRETE CURB DROP INLET WITH CAST IRON GRATE

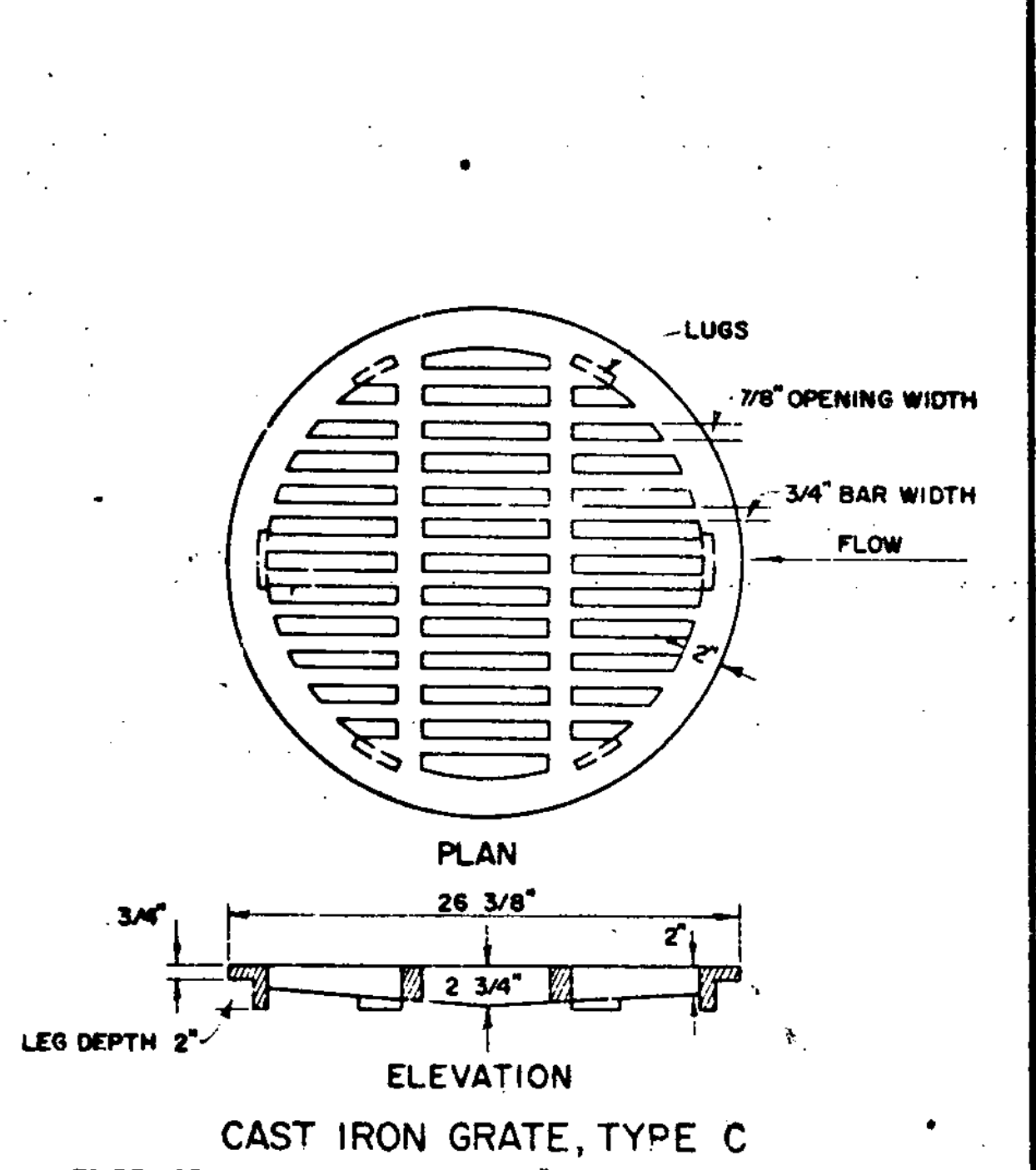


FOR USE ONLY AT LOCATIONS OF VERY HIGH DISCHARGE AND ERODIBLE SOIL CONDITIONS IRREGULAR COBBLES APPROXIMATING THE MAXIMUM SIZE FOR TYPE OF SPECIFIED STONE FILL TO BE PLACED IN GENERAL PATTERN AS SHOWN. NO STONE TO BE CLOSER THAN 2D TO OUTLET OF PIPE. STONES SHOULD NOT BE PLACED TO DAM FLOW, BUT TO INDUCE TURBULENCE AND REDUCE VELOCITY. PLAN MAY BE ADAPTED TO FIELD CONDITIONS PREVAILING AT OUTLET. WHERE FLOW IS TO ULTIMATELY FOLLOW TOE OF SLOPE, DESIGN MAY BE SHORTENED OR WIDENED TO ACT AS A STILLING BASIN, AND DIRECT FLOW INTO DITCH. STONES FORMING BREAK SHOULD PROJECT ABOVE AND BELOW SURFACE OF STONE FILL APPROXIMATELY 3/4 THE DIAMETER OF THE PIPE. STONE FILL TYPE TO BE SPECIFIED ON PLANS.

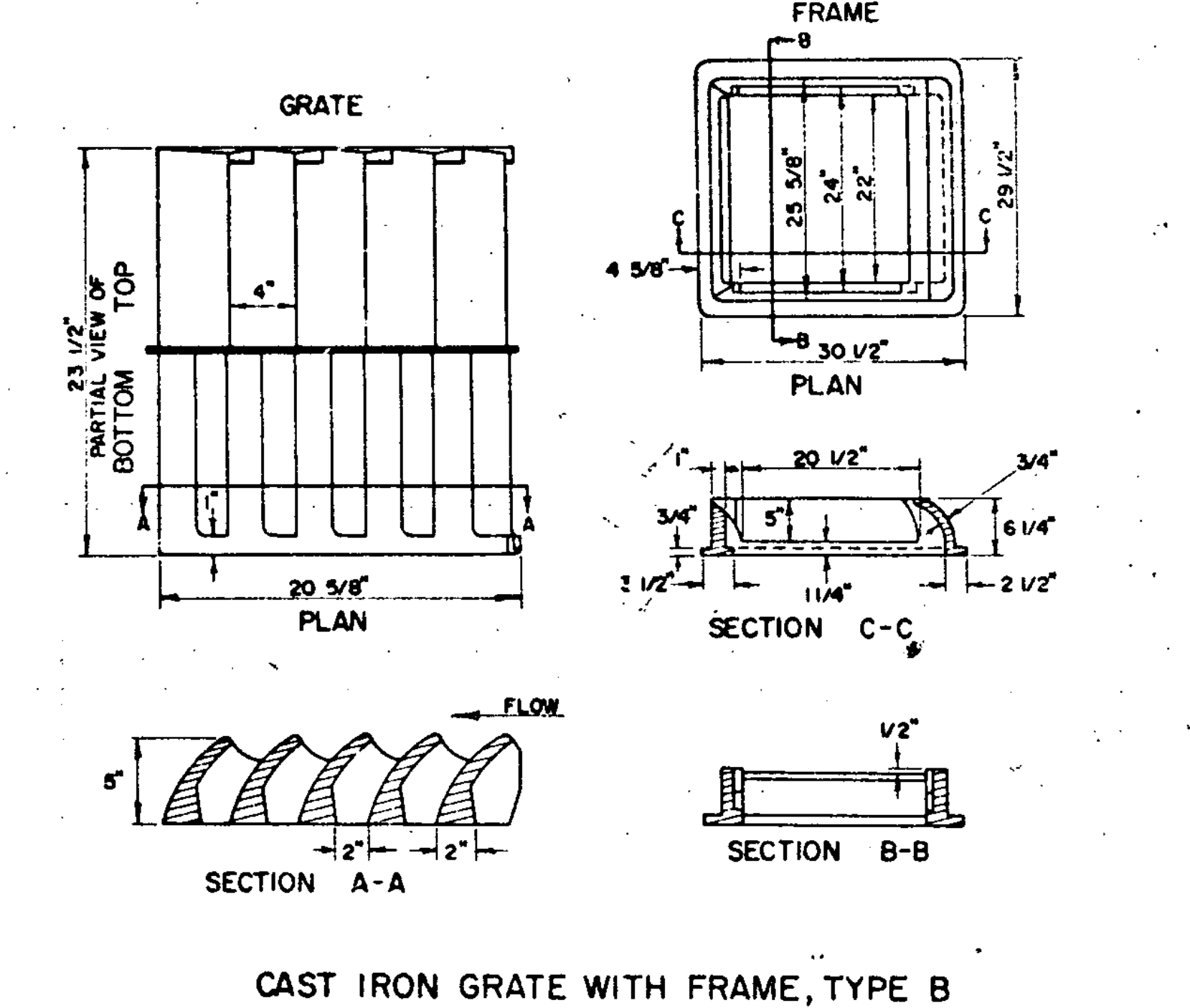
ENERGY DISSIPATOR FOR CULVERTS



UNDERDRAIN RISER



CAST IRON GRATE, TYPE C
TO BE USED IN CONJUNCTION WITH 24" CORRUGATED GALVANIZED METAL PIPE



CAST IRON GRATE WITH FRAME, TYPE B

REVISIONS & CORRECTIONS
NOV 14, 1972 - DCP END SECTION DIMENSION VARIANCE NOTE ADDED

APPROVED
DATE Dec. 8, 1971
R. H. Crandall
CHIEF ENGINEER
E. H. Stahney
ASST. CHIEF ENGINEER
L. M. Lane
HIGHWAY ENGINEER

PRECAST REINFORCED CONCRETE CURB DROP INLET WITH CAST IRON GRATE
CAST IRON GRATE, TYPE B
CAST IRON GRATE, TYPE C
UNDERDRAIN RISER
REINFORCED CONCRETE PIPE END SECTION
ENERGY DISSIPATOR FOR CULVERT

VERMONT
DEPARTMENT
OF HIGHWAYS
STANDARD

D-16