

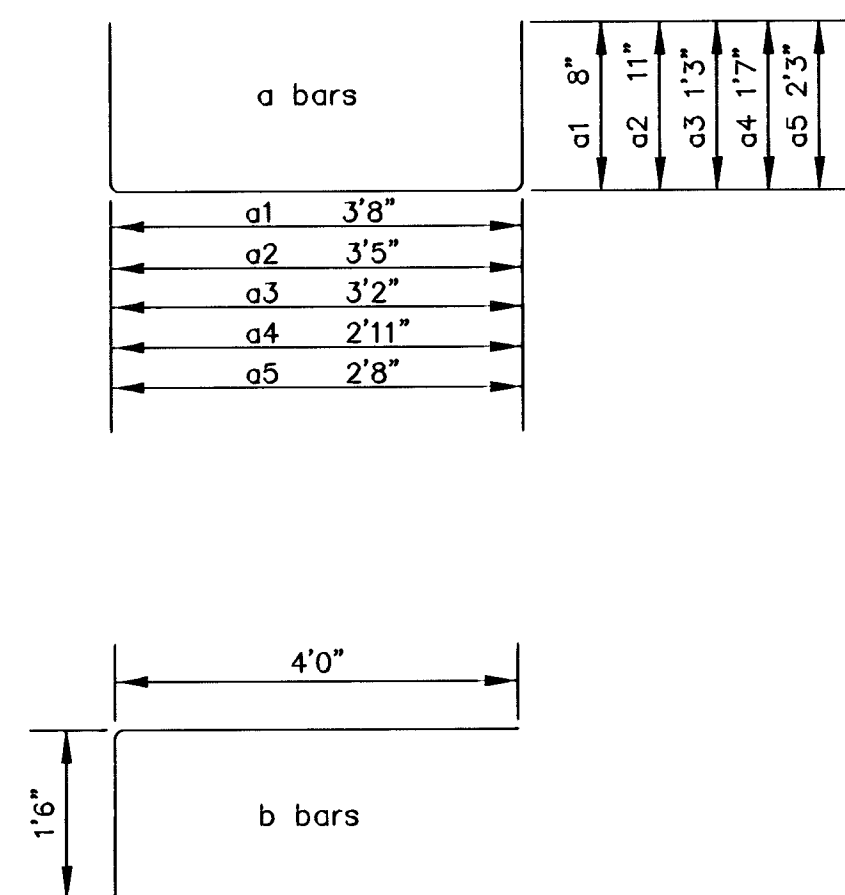
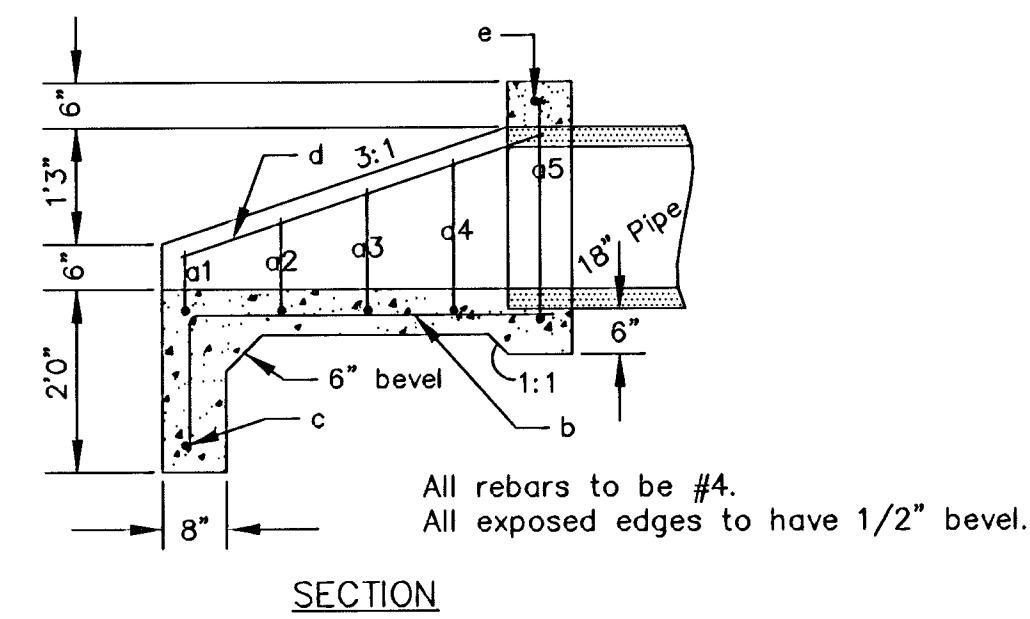
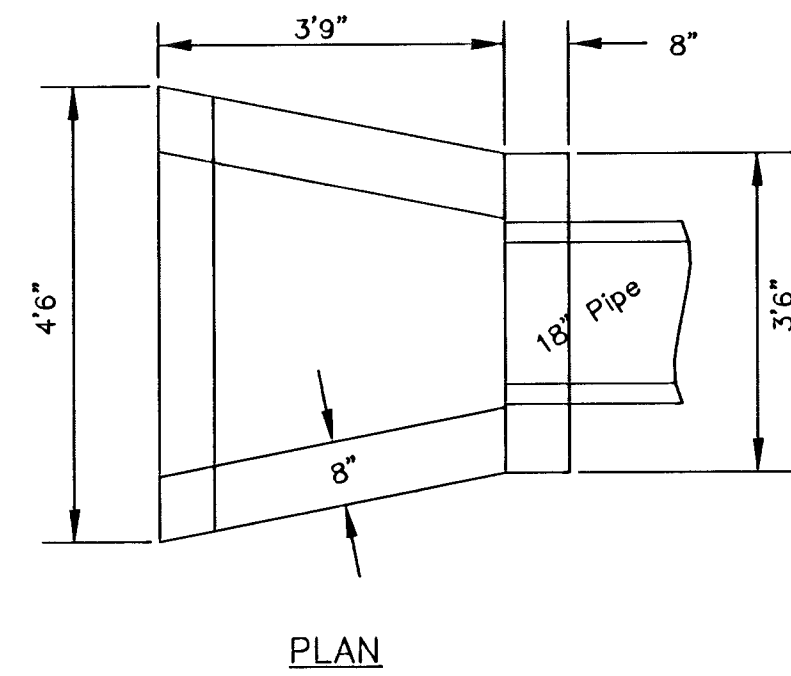


TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	5'0"		3.34
a2	1	5'3"		3.51
a3	1	5'8"		3.79
a4	1	6'1"		4.06
a5	1	7'2"		4.79
b	5	5'6"		18.37
c	1	4'0"		2.67
d	2	4'0"		5.34
e	1	3'2"		2.12
Total Rebar, lbs				47.99
Concrete, C.Y.				0.91

All rebars to be #4.

HEADWALL FOR 18" PIPE

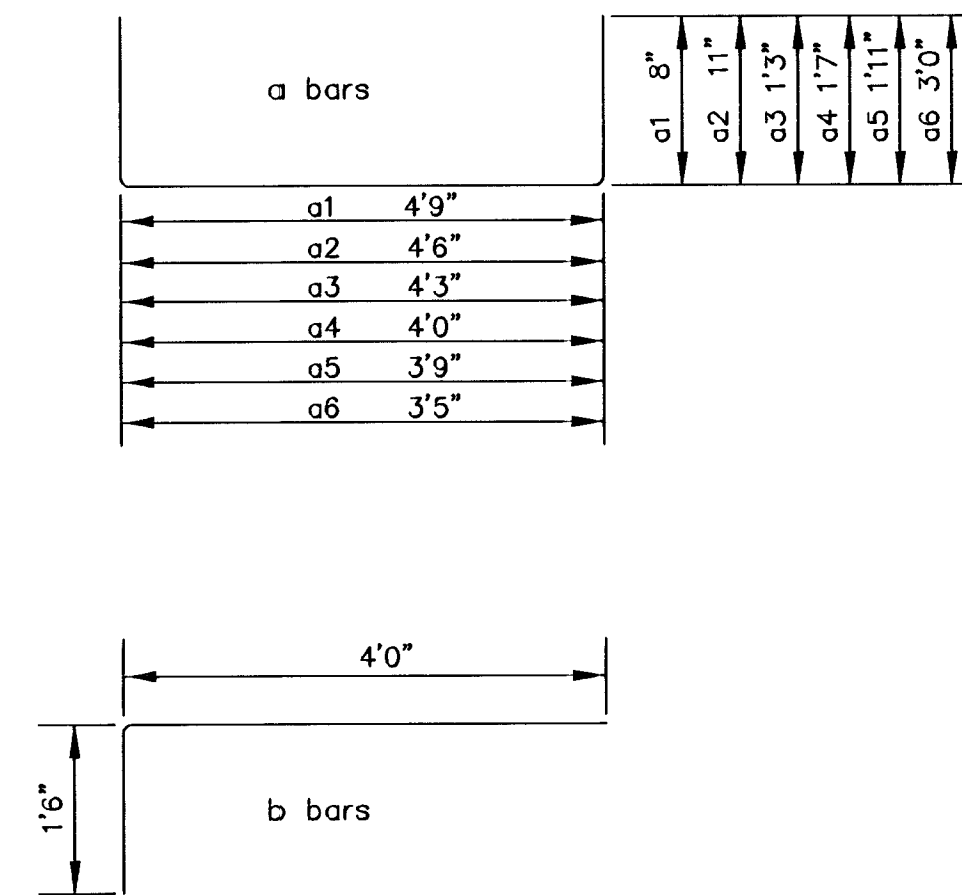
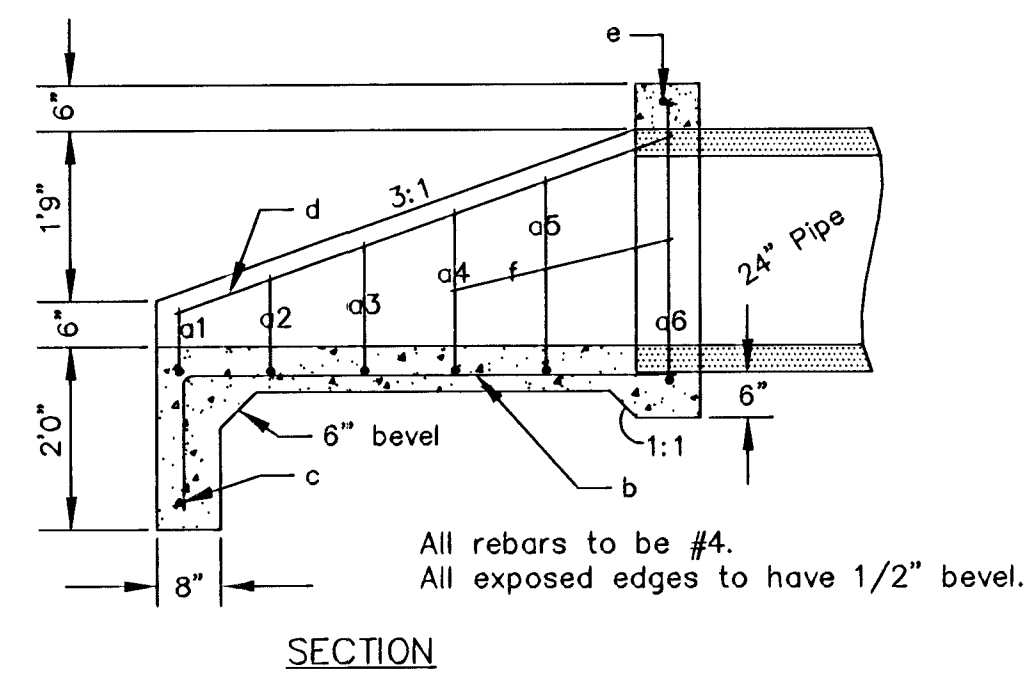
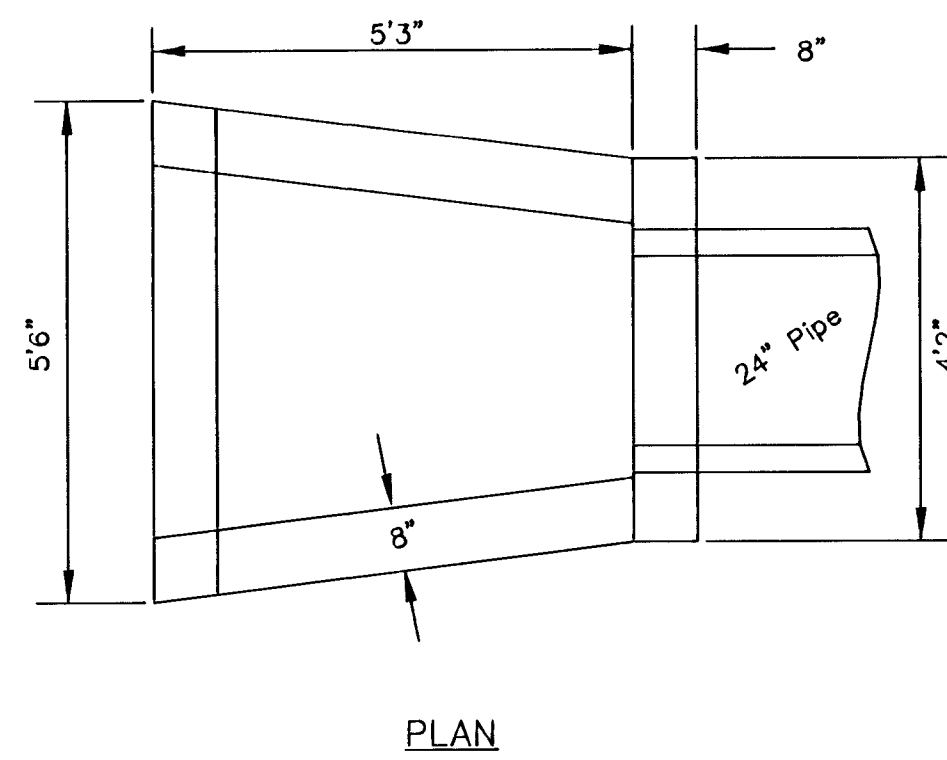


TABLE OF QUANTITIES				
	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	6'1"		4.06
a2	1	6'4"		4.23
a3	1	6'9"		4.51
a4	1	7'2"		4.79
a5	1	7'7"		5.07
a6	1	9'5"		6.29
b	6	6'11"		27.72
c	1	5'0"		3.37
d	2	5'10"		7.79
e	1	3'10"		2.56
f	2	2'9"		3.67
Total Rebar, lbs				74.03
Concrete, C.Y.				1.40

All rebars to be #4.

HEADWALL FOR 24" PIPE

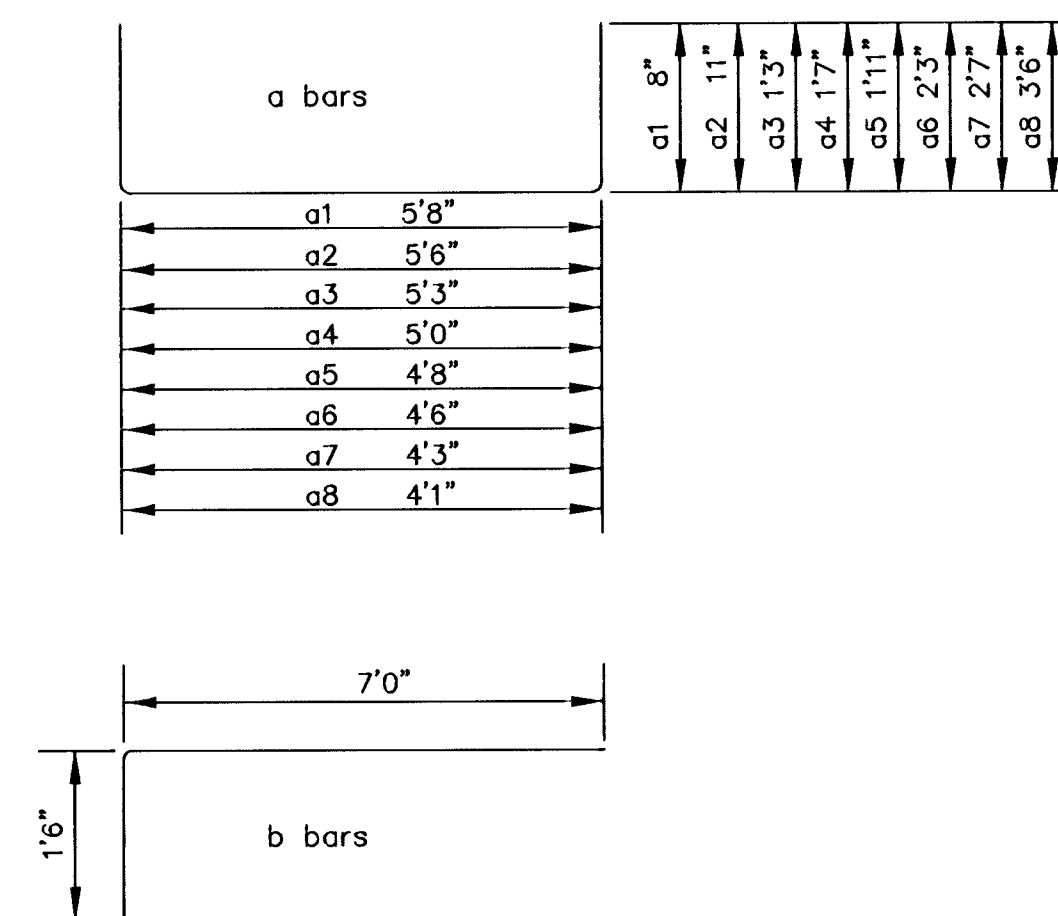
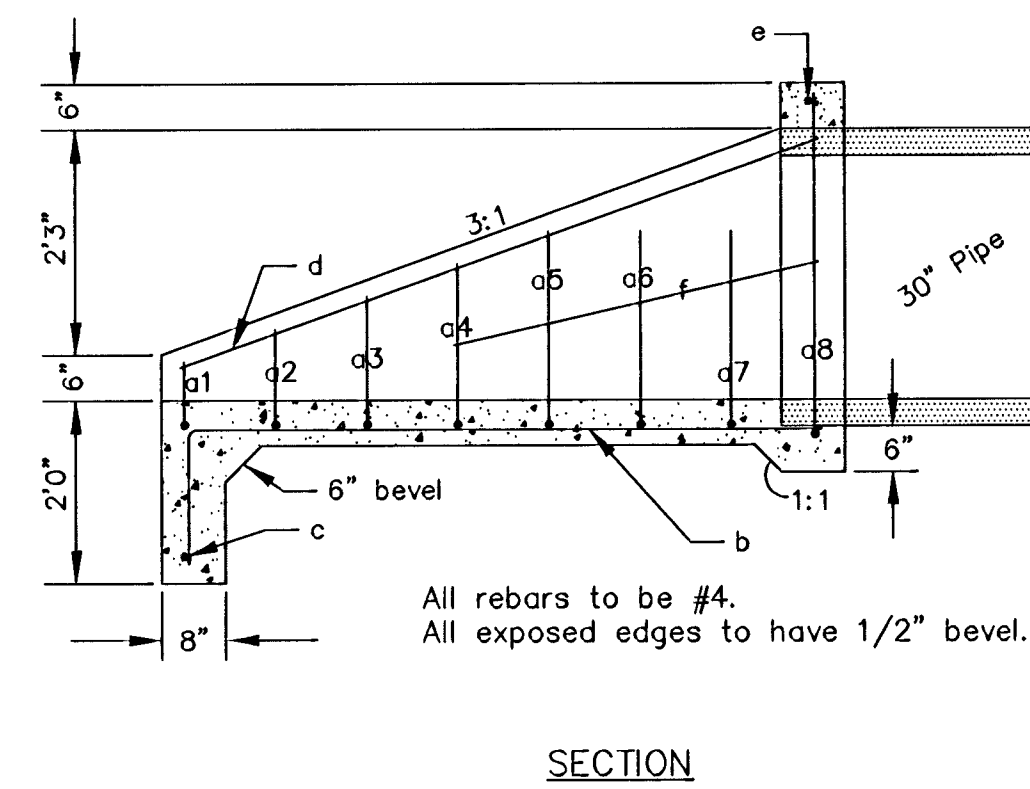
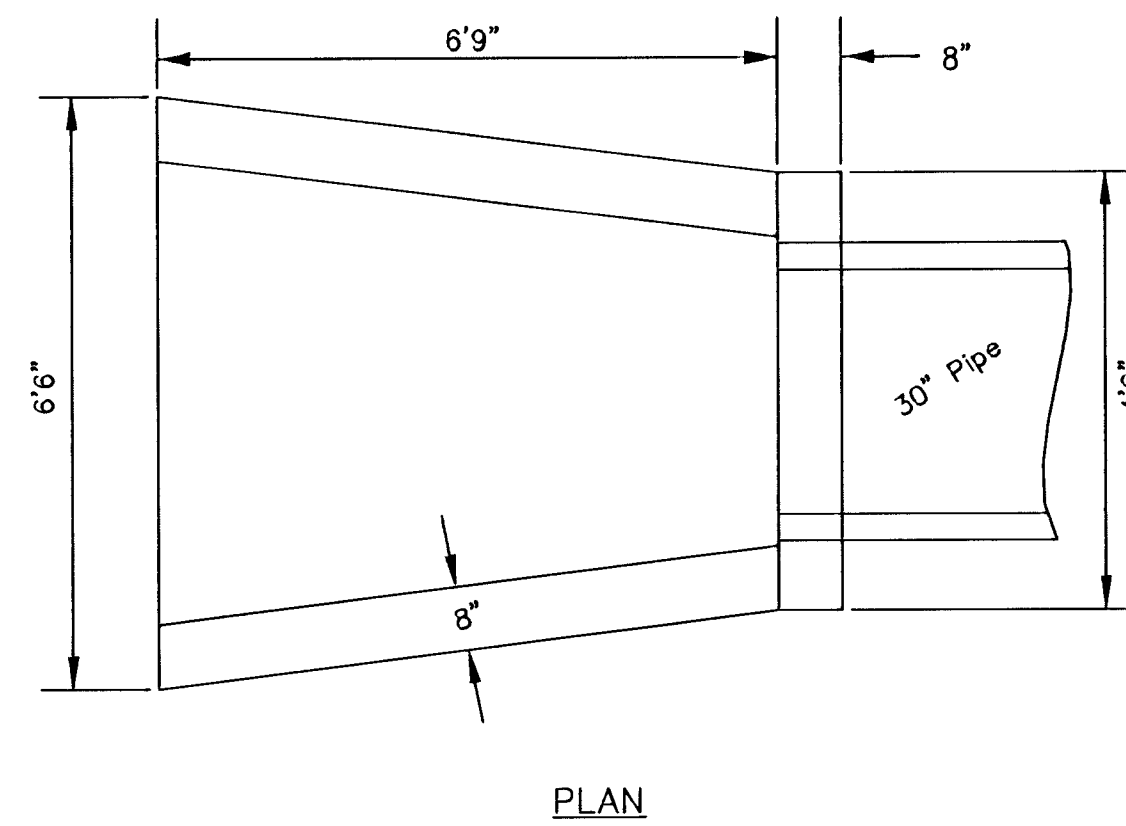
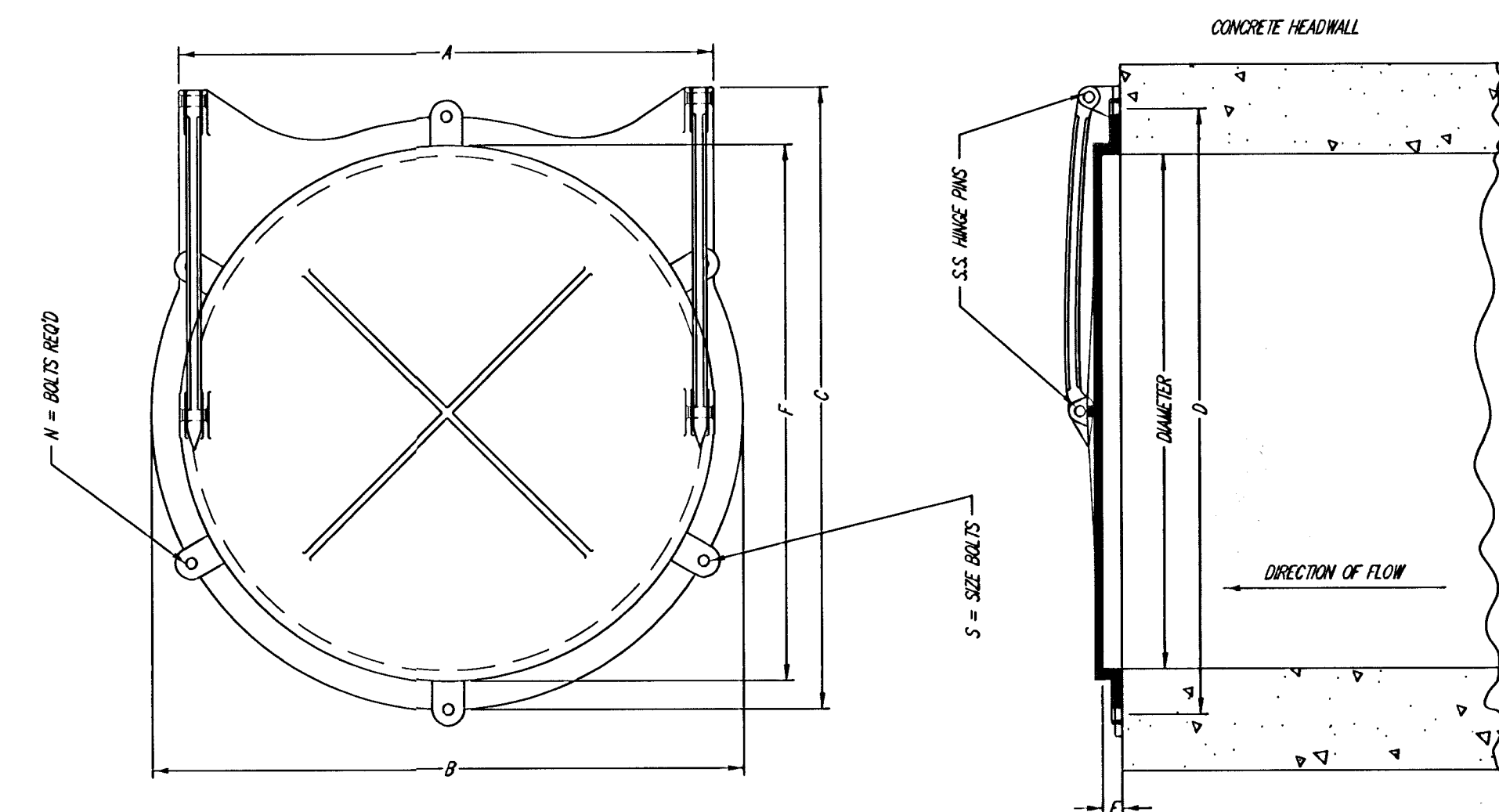


TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	7'0"		4.68
a2	1	7'4"		4.90
a3	1	7'9"		5.18
a4	1	8'2"		5.46
a5	1	8'6"		5.68
a6	1	9'0"		6.01
a7	1	9'5"		6.29
a8	1	11'1"		7.40
b	7	8'6"		35.07
c	1	6'0"		4.01
d	2	7'8"		10.02
e	1	4'5"		2.95
f	2	4'3"		5.68
Total Rebar, lbs				103.33
Concrete, C.Y.				2.01

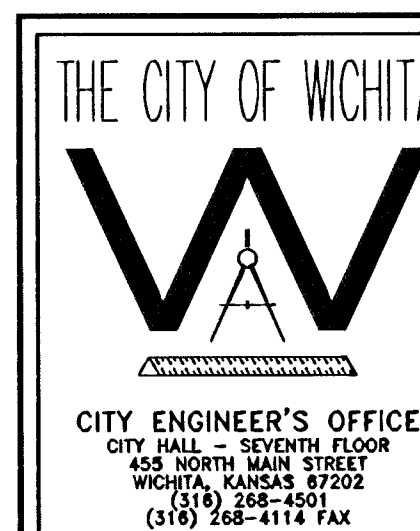
All rebars to be #4.

HEADWALL FOR 30" PIPE



DIAMETER	A	B	C	D	E	F	N	S
15"	16 1/4"	19"	21"	18 3/4"	1 1/8"	16 1/4"	4	5/8"
18"	19 1/4"	22 1/8"	24 1/4"	22 1/8"	1 1/4"	19 1/4"	4	3/4"
24"	25 1/4"	28 1/4"	30 1/4"	28 1/4"	1 1/4"	25 1/4"	6	3/4"
30"	31 1/4"	34 1/4"	36 1/2"	34 1/4"	1 1/4"	31 1/4"	6	7/8"
36"	37 1/2"	41 1/2"	43 1/2"	41 1/2"	1 3/8"	37 1/2"	6	7/8"

* Values given by NEENAH FOUNDRY COMPANY



HEADWALL
DETAILS FOR
18", 24", & 30" PIPE
& FLAP GATE DETAIL

M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER _____		INDEX CODE _____
DATE MAR 96	SHEET 70 OF 88	

FALCON FALLS — PHASE 1
STREET IMPROVEMENTS
HEADWALL DETAIL W/ FLAP GATE
CITY OF WICHITA, KANSAS
NEIL D. CABLE, P.E. — CITY ENGINEER
C.O.W. Project # 472-83687 O.C.A. # 765782

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
5940 E. Central, Suite 200 ■ Wichita, KS 67208-4242
Phone 316/685-4114 ■ FAX 316/685-4444



by: J. Ubert / B. Kulla

Drawn By: B. Kulla
Poe Job No: 1748A

Date: May 2003

[illegible]

Sheet
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