

MAPLE AT I 235 PUMPING STATION  
 REVISION - 30" BYPASS LINE

PROJ. NO. 468 76 245 81103 000 000 001

CITY OF WICHITA

DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN DIRECTOR OF ENGINEERING/CITY ENGINEER

DATE: \_\_\_\_\_

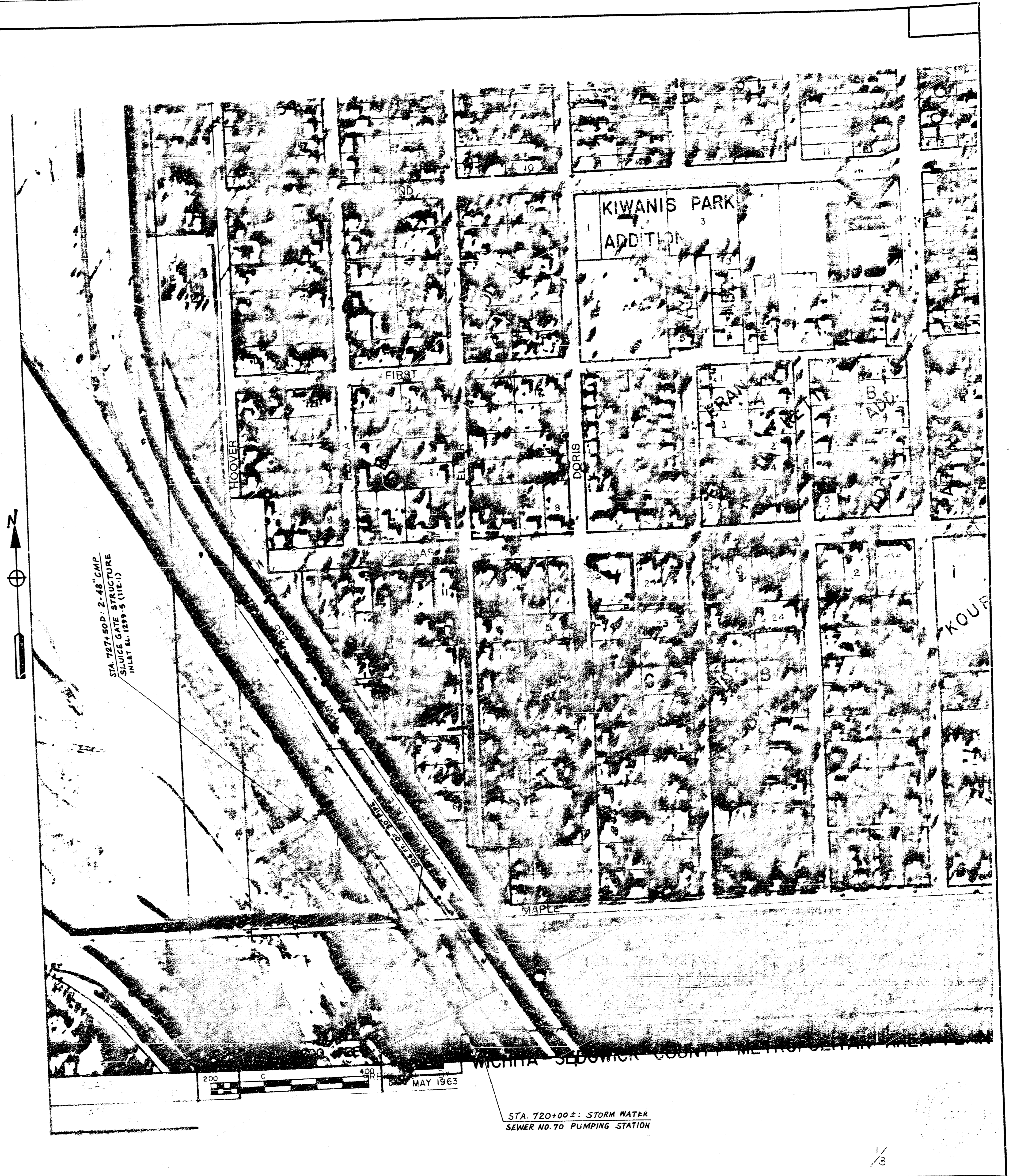
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH WATER, ELECTRIC, TRAFFIC CONTROL, GAS AND OTHER UTILITY COMPANIES SO MINIMUM INTERFERENCE WILL OCCUR TO GENERAL PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR RELOCATION OF EXISTING SERVICES.
2. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS AND MARKERS ON MAPLE AVENUE WHILE INSTALLING THE PIPE UNDER MAPLE AVENUE. IT IS RECOMMENDED TO KEEP AT LEAST ONE LANE OPEN DURING CONSTRUCTION UNDER MAPLE AVENUE.
3. FIELD ENGINEER SHALL DETERMINE ALL REMOVAL LIMITS OF ASPHALT. ALL REMOVAL LIMITS SHALL BE BY SAW JOINT.
4. CONCRETE HEADWALL STRUCTURE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID AS LUMP SUM AMOUNT. THIS PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENT (INCLUDING FLAP GATE SEAT, ETC.) LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
5. HEADWALL STRUCTURE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE HEADWALL AT STATION 1+20 WILL ALIGN WITH THE SLOPE OF THE LEVEE.
6. CONTRACTOR SHALL TEMPORARILY REPLACE FLOOD CONTROL FENCE AT THE END OF EACH WORKING DAY UNTIL SUCH TIME THAT FENCE IS PERMANENTLY REPLACED.
7. CONTRACTOR SHALL SEED, FERTILIZE AND MULCH ALL DISTURBED GRASSED AREAS WITHIN FLOOD CONTROL RIGHT-OF-WAY. SEED SHALL BE A MINIMUM OF ONE HUNDRED (100) POUNDS OF BROME WHEAT HEAD PER ACRE.
8. FIELD ENGINEER TO CROSS-SECTION CHANNEL EXCAVATION BEFORE AND AFTER CONSTRUCTION.

GENERAL NOTE

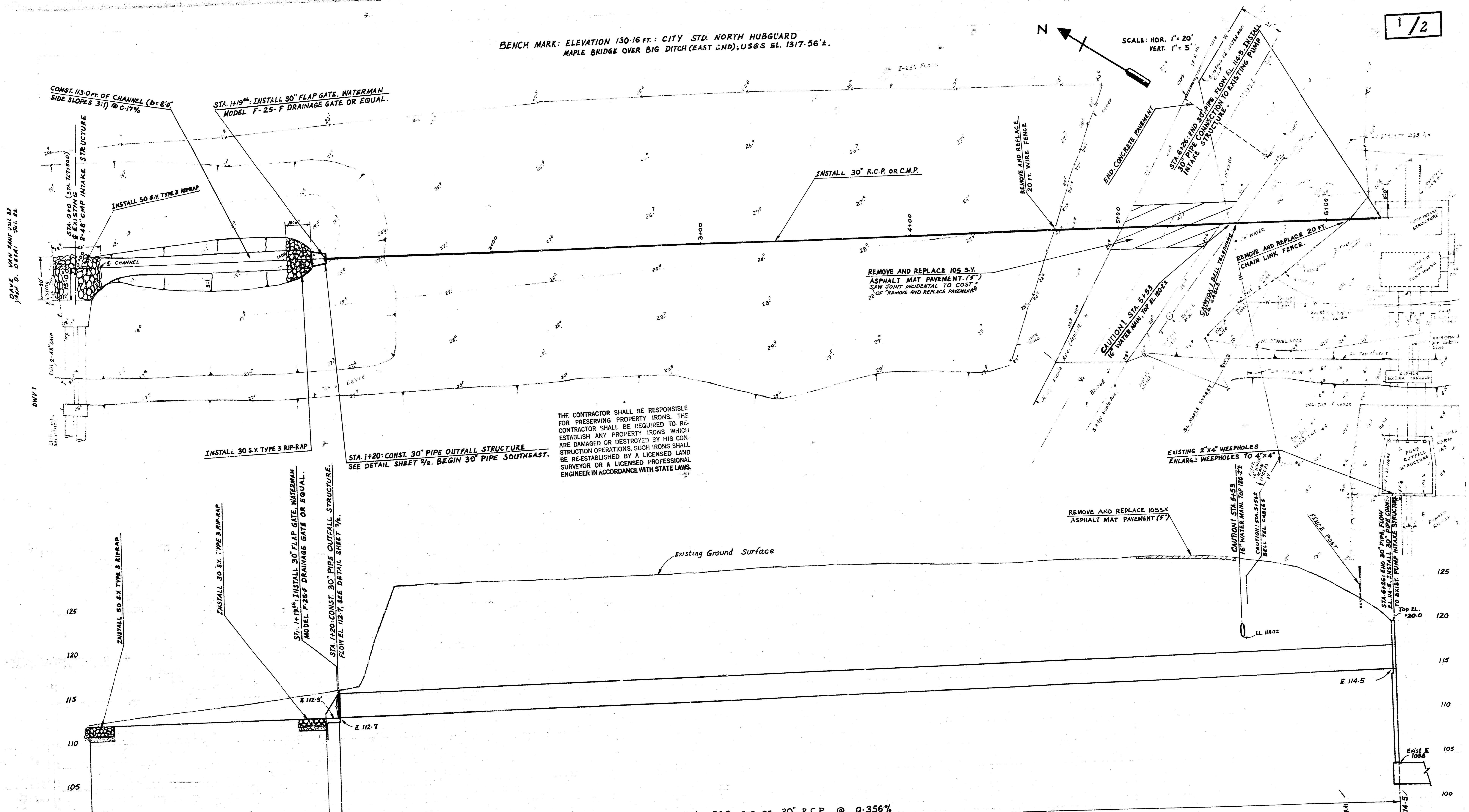
CONTRACTOR SHALL HAVE THE OPTION OF EITHER MAINTAINING TWO (2) LANES OF TRAFFIC OR CLOSING MAPLE. IF MAPLE IS CLOSED, IT CAN BE CLOSED NO LONGER THAN FORTY-EIGHT (48) HOURS AND EAST-WEST ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

CONTRACTOR SHALL SEED, FERTILIZE, AND MULCH ALL DISTURBED GRASSED AREAS WITHIN FLOOD CONTROL RIGHT-OF-WAY. SEED SHALL BE A MINIMUM OF 200 LBS. PER ACRE, AND SHALL CONSIST OF 50% BROME AND 50% K-31 FESCUE. SEED SHALL BE IN COMPLIANCE WITH CITY OF WICHITA SPECIFICATIONS.



BENCH MARK: ELEVATION 130.16 FT.: CITY STD. NORTH HUBGUARD  
 MAPLE BRIDGE OVER BIG DITCH (EAST END); USGS EL. 1317.56'.  
 SCALE: HOR. 1" = 20'  
 VERT. 1" = 5'

1/2



THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

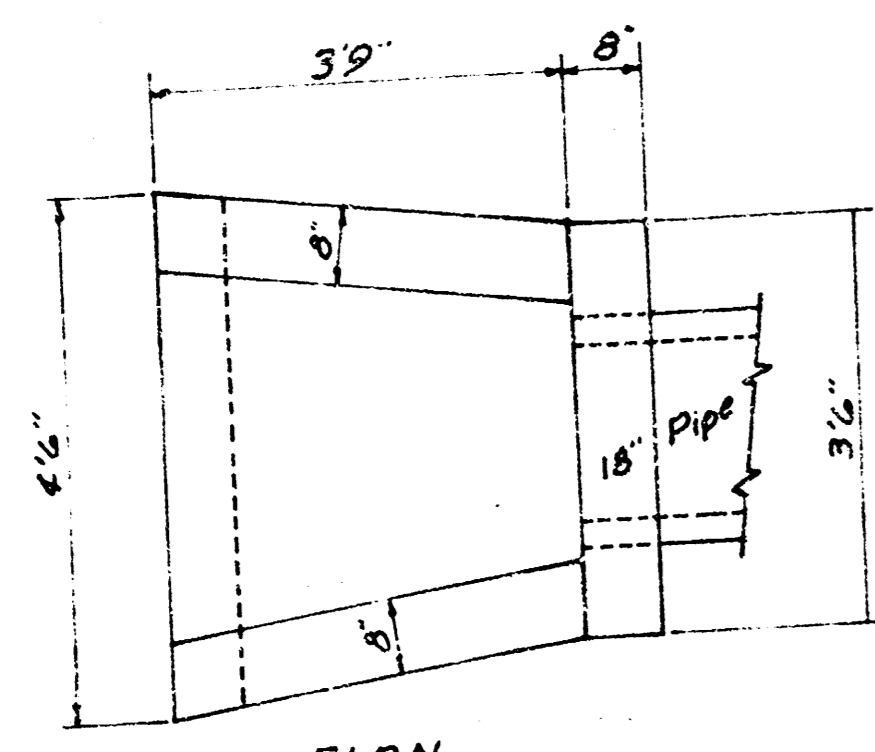
CONST. 113.0 FEET OF CHANNEL: (b=8'-0") @ 0.17%

INSTALL 506 FEET OF 30" R.C.P. @ 0.356%  
 ALT.: INSTALL 506 FEET OF 30" CMP (FULLY PAVED AND FULLY COATED) @ 0.356%

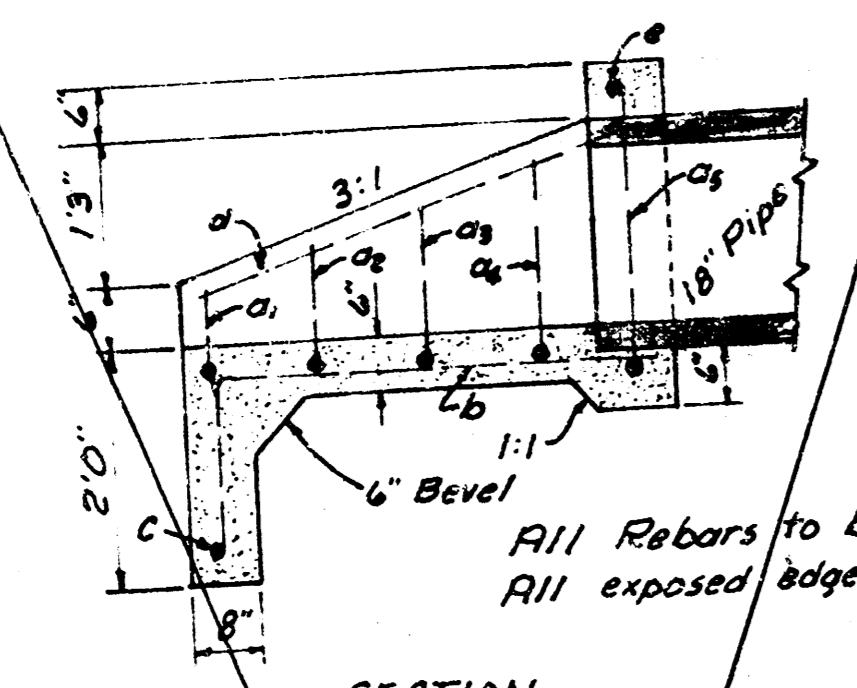
PROJECT DESCRIPTION			
MAPLE AVENUE AT I-235 FLOODWAY PUMPING STATION REVISION-30" BYPASS LINE			
PROJECT NUMBER			
468 76 245	81103	000	000 001
BOOK NO.	SHEET NO.	APPROVED BY	DATE
	21		JUL 1982
DRAWN BY Y. D. D.			REVISED
CITY OF WICHITA			
DEPARTMENT OF ENGINEERING			
DIRECTOR OF ENGR./CITY ENGINEER			SCALE
R. W. BRUGGEMAN			HOR. 1" = 20'
			VERT. 1" = 5'

2/3

FILMED FROM THE BEST



PLAN  
Scale: 1/2"=10'



SECTION  
Scale: 1/2"=10'

All Rebars to be #4.  
All exposed edges to have 1/2" bevel.

a bars

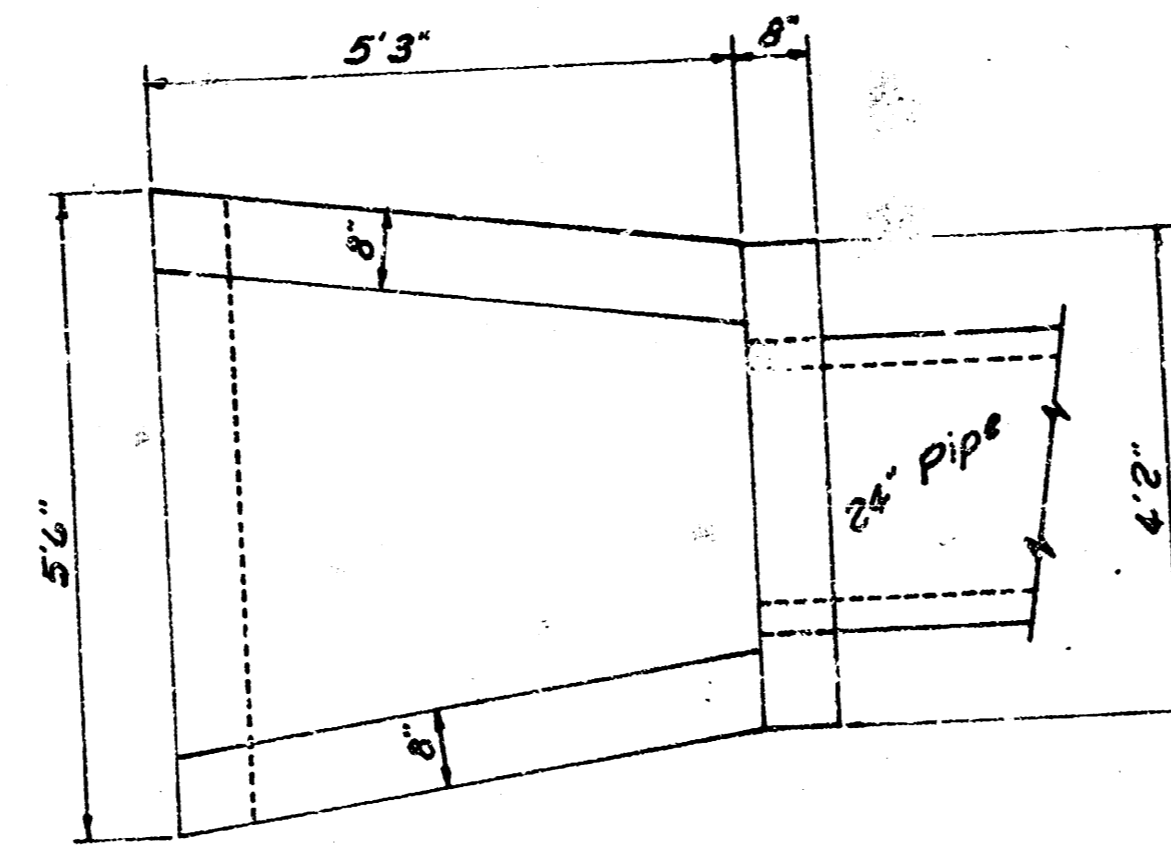
a1	3'8"
a2	3'5"
a3	3'0"
a4	2'11"
a5	2'9"

b bars

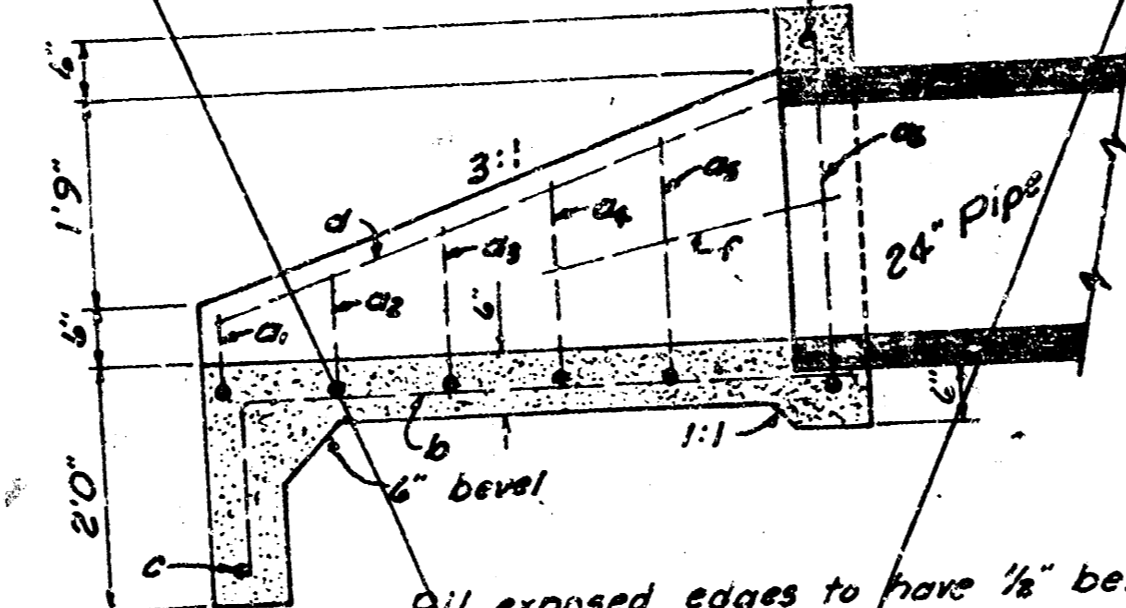
b1	4'0"
b2	3'5"
b3	3'0"
b4	2'11"
b5	2'9"

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	4'1"		4.06
a5	1	7'2"		4.79
a6	5	5'4"		18.97
b	1	4'0"		2.67
c	2	4'0"		5.34
d	1	3'2"		2.12
e	1	3'2"		2.12
Total Rebar, lbs				47.99
Conc., C.Y.				0.91

HEADWALL FOR 18" PIPE



PLAN  
Scale: 1/2"=10'



SECTION  
Scale: 1/2"=10'

All exposed edges to have 1/2" bevel.

a bars

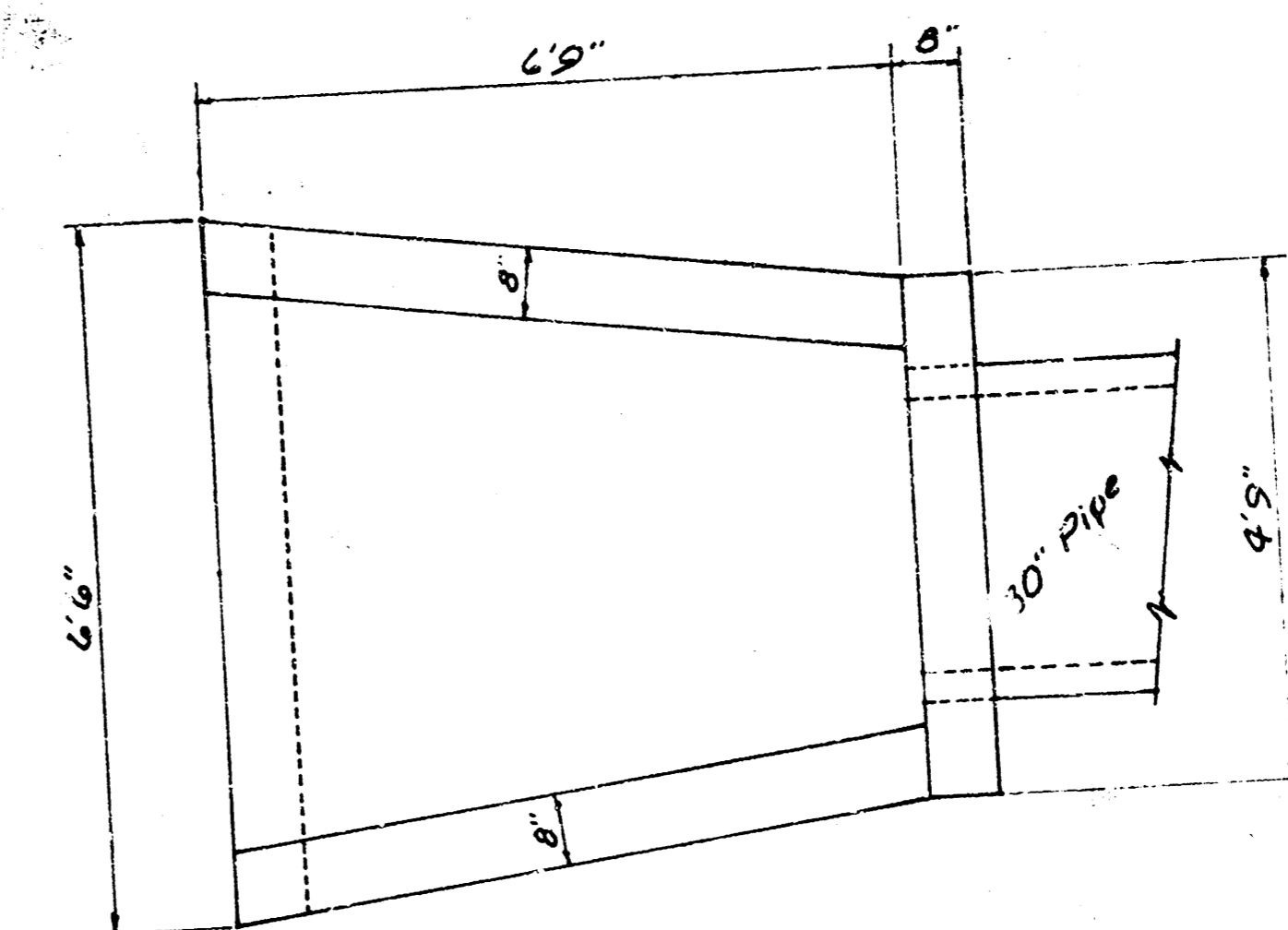
a1	4'4"
a2	4'6"
a3	4'3"
a4	6'0"
a5	3'9"
a6	3'5"

b bars

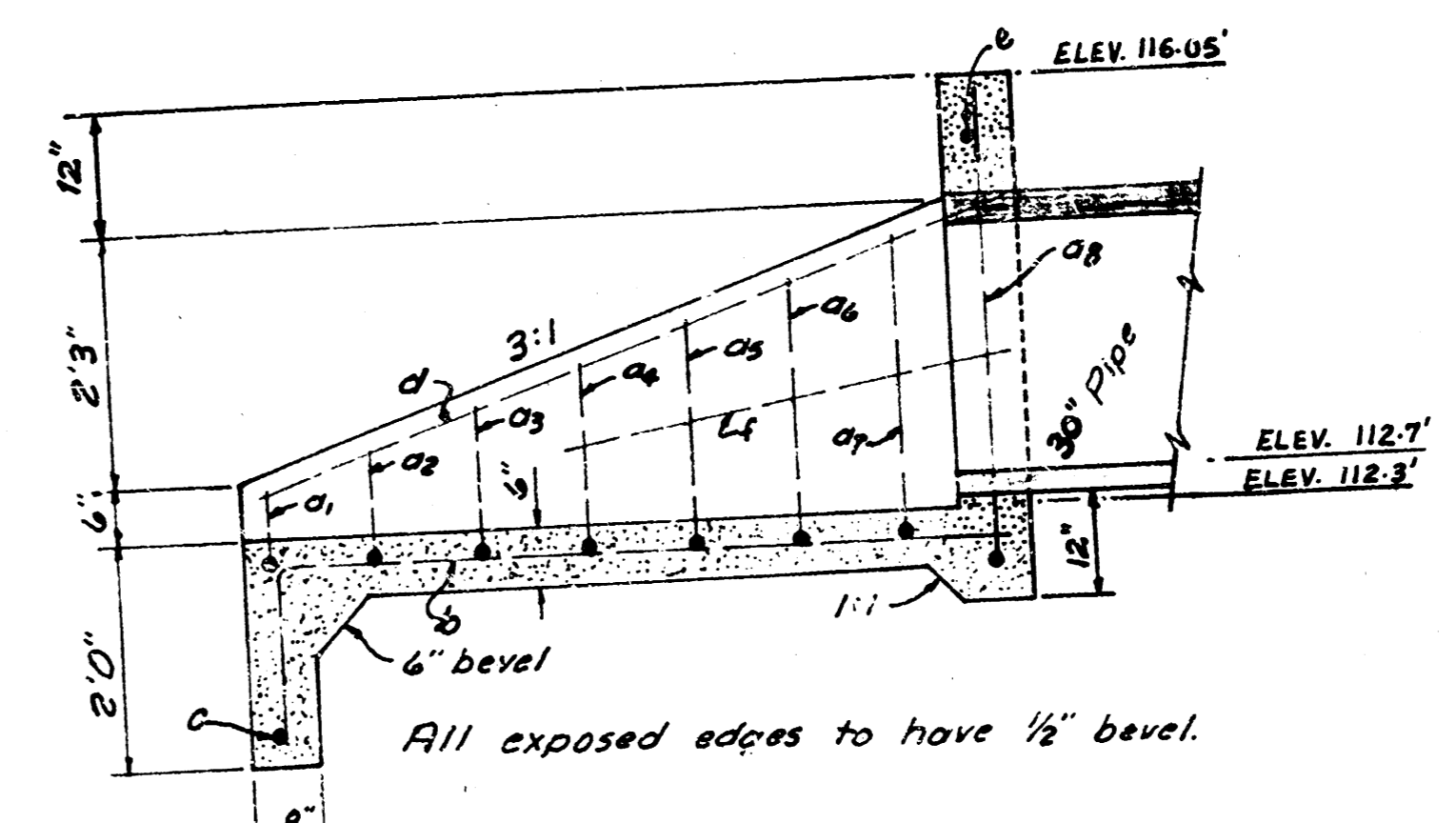
b1	5'5"
b2	4'10"
b3	3'5"
b4	3'0"
b5	2'5"
b6	2'0"

BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	4'1"		4.06
a2	1	4'4"		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
a7	1	4'11"		27.72
b	6	5'0"		3.37
c	1	5'10"		7.79
d	2	3'10"		3.56
e	1	3'10"		3.56
f	2	2'9"		74.03
Total Rebar, lbs				140
Concrete, C.Y.				

HEADWALL FOR 24" PIPE



PLAN  
Scale: 1/2"=10'



SECTION  
Scale: 1/2"=10'

All exposed edges to have 1/2" bevel.

a bars

a1	5'8"
a2	5'6"
a3	5'3"
a4	5'0"
a5	4'8"
a6	4'6"
a7	4'3"
a8	4'1"

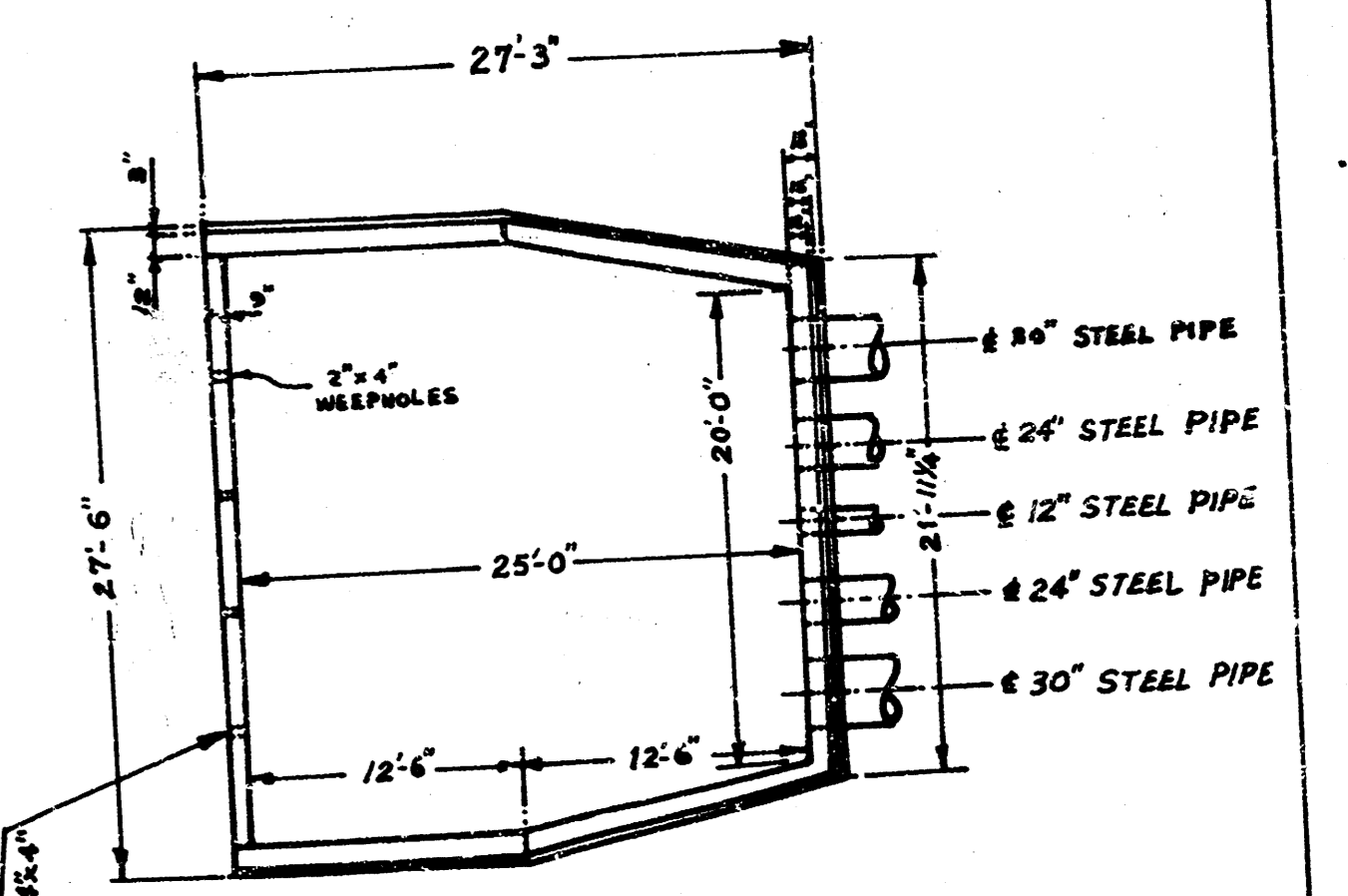
b bars

b1	7'0"
b2	6'5"
b3	6'0"
b4	5'5"
b5	5'0"
b6	4'5"
b7	4'0"
b8	3'5"

BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	7'0"		4.68
a2	1	7'4"		4.90
a3	1	7'0"		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	11'7"		7.74
b	7	8'6"		35.07
c	1	6'0"		4.01
d	2	7'6"		10.02
e	1	4'5"		2.95
f	2	4'3"		5.68
Total Rebar, lbs				103.67
Concrete, C.Y.				2.01

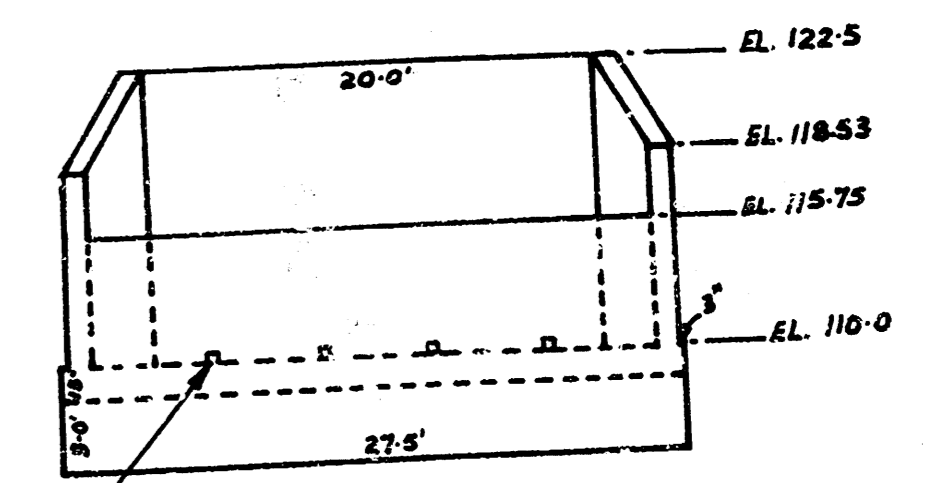
HEADWALL FOR 30" PIPE

NOTE: FLAP GATE IS OMITTED FOR CLARITY.



PLAN: EXISTING OUTFALL STRUCTURE

SCALE: 1"=10'



EAST ELEVATION

SCALE: 1"=10'