

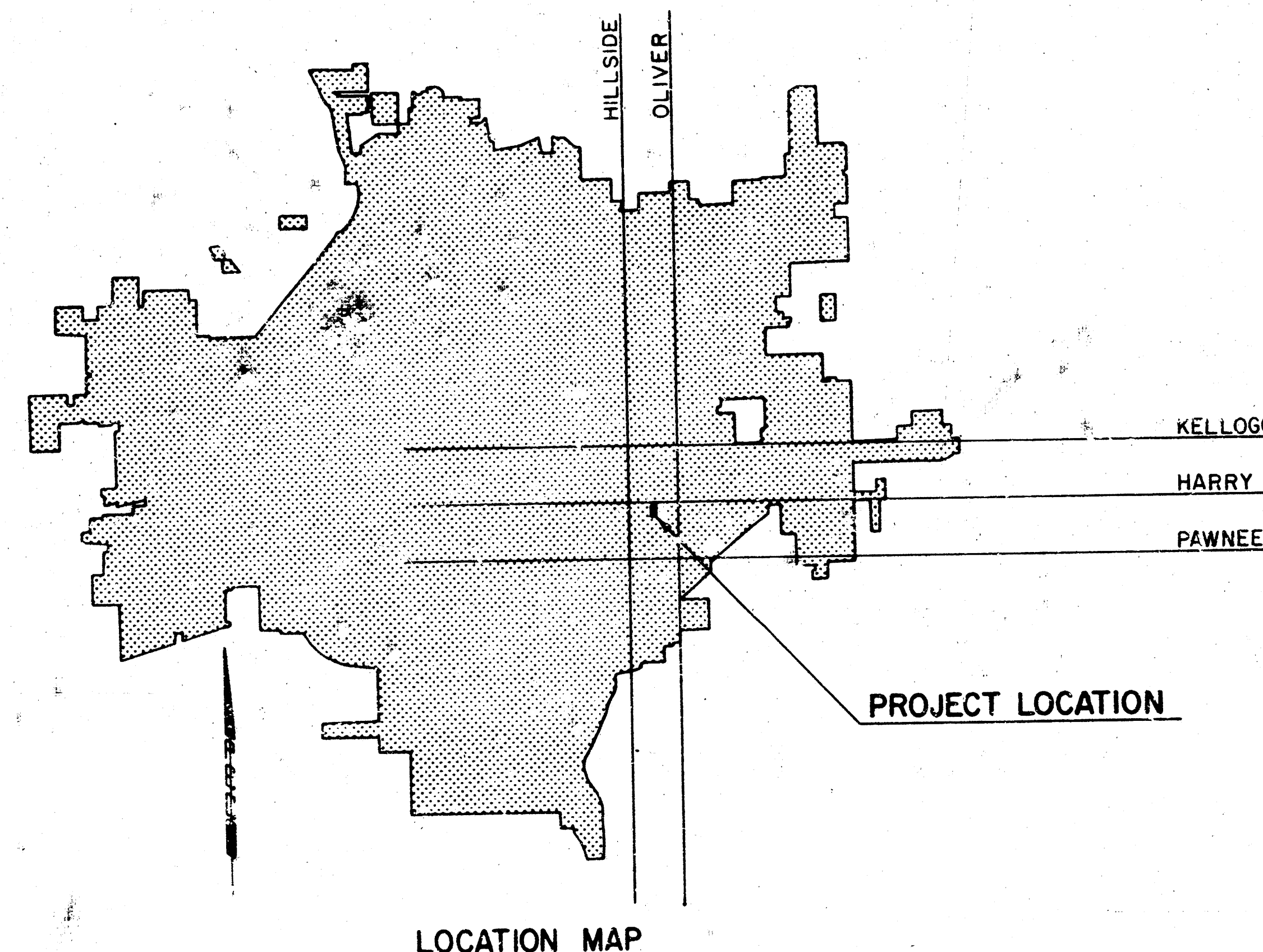
CONSTRUCTION PLANS FOR
STORM WATER SEWER IMPROVEMENTS
IN

GEORGETOWN II ADDITION
WICHITA, KANSAS

KANSAS GENERAL PROPERTIES, INC.

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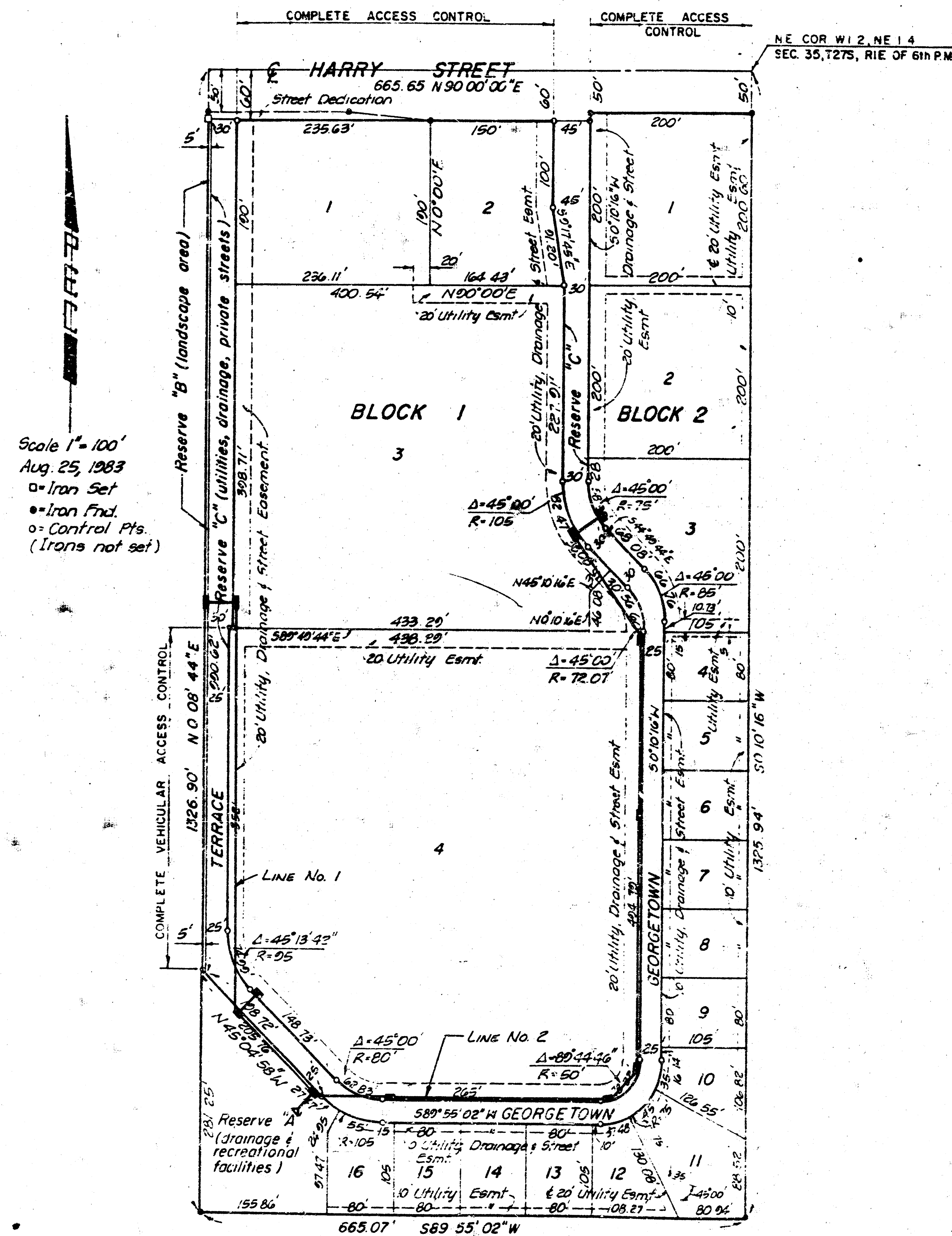
DECEMBER 1983

PLANS PREPARED BY

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



GEORGETOWN II Wichita, Sedgwick County, Kansas.



BENCH MARKS

BM #4	SOUTH RIM OF MANHOLE LOCATED NW LOT 13, BLOCK 2, GEORGETOWN II ADDITION. EL. = 136.74
BM #5	CHISELED "C" ON TOP OF CURB, SOUTH SIDE OF HARRY STREET, 101' WEST OF WEST PROPERTY LINE OF GEORGETOWN II ADDITION. EL. = 155.69
BM #6	RAILROAD SPIKE ON EAST SIDE OF POWER POLE, NORTH SIDE OF HARRY STREET, 58.5' EAST OF WEST LINE OF GEORGETOWN II ADDITION. EL. = 155.395
CITY BM	BENCH MARK DISC ON WEST END OF NORTH HUGUARD ON RCB, APPROXIMATELY 150' EAST OF OLIVER AND HARRY STREETS. EL. = 142.433

GENERAL NOTES

- ALL ELEVATIONS BASED ON CITY OF WICHITA DATUM. (MEAN SEA LEVEL-1187.4)
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND/OR BARRICADES TO INSURE SAFETY AS DIRECTED BY THE ENGINEER. ALL TRAFFIC CONTROL WILL BE IN ACCORDANCE WITH THE MUTCD.
- THE CONTRACTOR SHALL NOTIFY EACH OF THE FOLLOWING UTILITY COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION AND SHALL REQUEST THAT ALL EXISTING LINES BE FLAGGED:

KANSAS GAS & ELECTRIC COMPANY
1900 EAST CENTRAL
264-1111 (EXT. 248) JERRY LANE

CITY OF WICHITA WATER DEPT.
455 N. MAIN STREET
268-4555, BERRY GEGEN

SOUTHWESTERN BELL TELEPHONE
154 NORTH BROADWAY
262-5500

GAS SERVICE COMPANY
1021 E. 26TH NO.
263-7511, GENE CURLESS

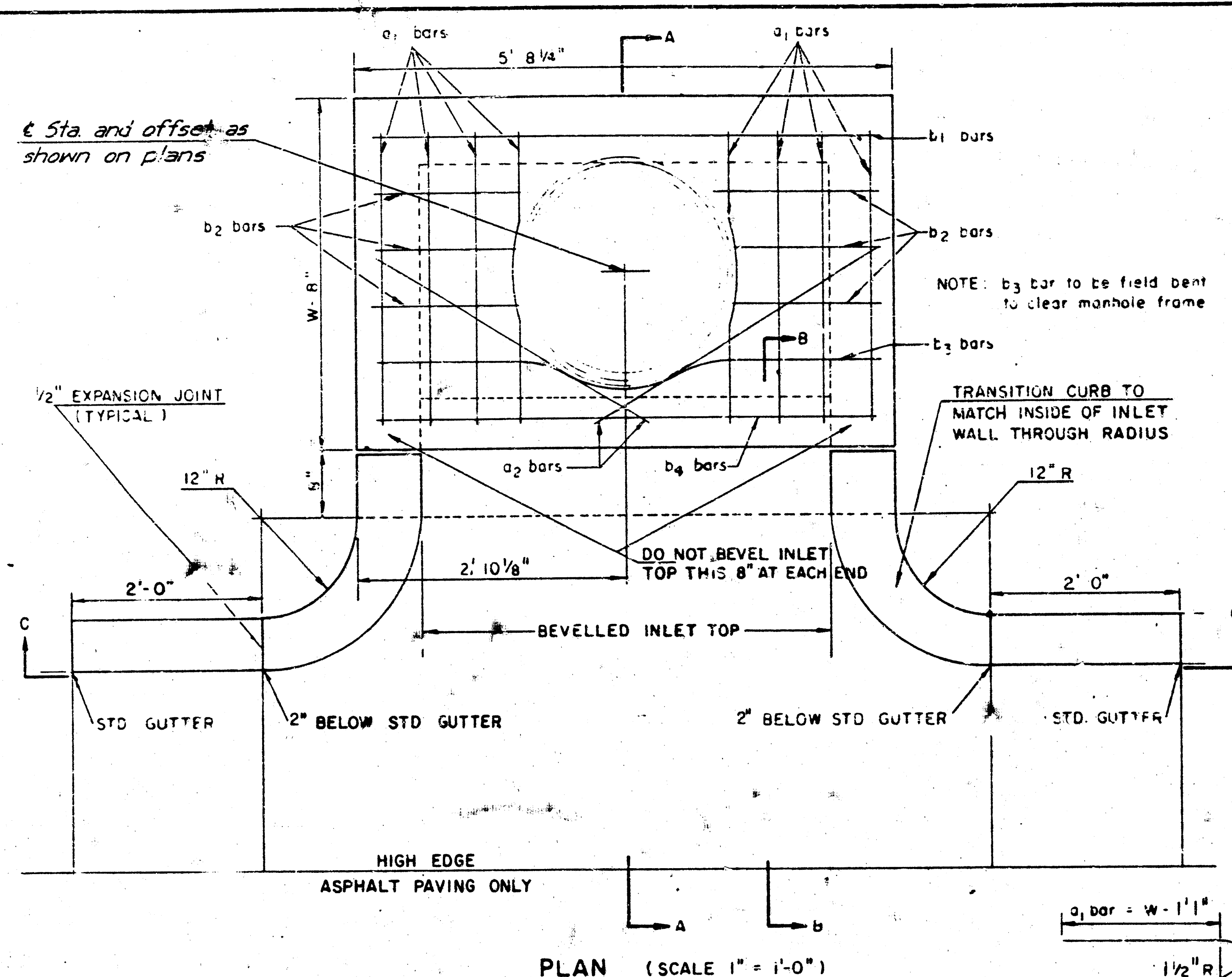
AIR CAPITAL CABLEVISION
705 N. BROADWAY
267-2889

- THE CONTRACTOR MUST ALSO NOTIFY THE TELEPHONE COMPANY 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK NEAR BURIED TELEPHONE LINES.
- THE CONTRACTOR SHALL BEGIN WORK WITHIN 10 CALENDAR DAYS AFTER THE NOTICE TO PROCEED AND SHALL COMPLETE THE WORK WITHIN 40 CALENDAR DAYS THEREAFTER. FAILURE TO COMPLETE THE WORK WITHIN THE ALLOTTED TIME WILL RESULT IN THE CONTRACTOR BEING SUBJECT TO LIQUIDATED DAMAGES IN THE AMOUNT OF \$400 PER DAY.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE HIS WORK WITH OTHER CONTRACTORS ON THE PROJECT SITE, SUCH AS CONTRACTORS FOR SANITARY SEWER, WATER, DETENTION POND AND STREET IMPROVEMENTS.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, REFERENCE POINTS AND STAKES AND, IN CASE OF WILLFUL OR CARELESS DESTRUCTION, SHALL BE CHARGED WITH RESULTING EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
- EXCESS MATERIAL SHALL BE ENBANKED ON SITE AS DIRECTED BY THE ENGINEER.
- BROKEN CONCRETE REMOVED BY THE STORM SEWER CONTRACTOR SHALL BE STOCKPILED FOR USE AS RIP RAP BY OTHER CONTRACTORS.
- BROKEN ASPHALT REMOVED BY THE STORM SEWER CONTRACTOR SHALL BE DISPOSED ON SITE AS DIRECTED BY THE ENGINEER.
- THE QUANTITIES SHOWN ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT ACCORDING TO THE INTENT OF THE PLANS AND SPECIFICATIONS AND SHALL SATISFY HIMSELF OF ALL WORK ITEMS AND QUANTITIES ACCORDINGLY. A LUMP SUM BID SHALL BE SUBMITTED FOR THE SATISFACTORY COMPLETION OF THE ENTIRE PROJECT.
- THE OWNER WILL FURNISH HORIZONTAL CONTROL POINTS FOR LOCATING THE PRINCIPAL COMPONENTS OF THE WORK, TOGETHER WITH A SUITABLE NUMBER OF BENCH MARKS ADJACENT TO THE WORK. FROM THE INFORMATION PROVIDED BY THE OWNER, THE CONTRACTOR SHALL DEVELOP AND MAKE ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION, SUCH AS SLOPE STAKES, BLUE TOPS, BATTER BOARDS, TRENCH CUTS AND OTHER WORKING POINTS, LINES, AND ELEVATIONS.

SUMMARY OF QUANTITIES

Item	Description	Quantity	Unit
1.	30" RCP	368.20	LF
2.	24" RCP	321.30	LF
3.	21" RCP	236.36	LF
4.	18" RCP	284.03	LF
5.	15" RCP	596.61	LF
6.	Type 1A Inlet, W = 4'-2"	7	Ea.
7.	Type 1A Inlet, W = 5'-0"	2	Ea.
8.	Type 1A Inlet, W = 6'-0"	3	Ea.
9.	Reinf. Conc. Headwall	1	Ea.
10.	Riprap	153	S.Y.

		GEORGETOWN II STORM WATER SEWER IMPROVEMENTS GENERAL PROJECT INFORMATION KANSAS GENERAL PROPERTIES, INC. PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS	
		Designed by CSB Drawn by CAR	Job No. 36-82522-2 Date Dec. 1983



STEEL SCHEDULE

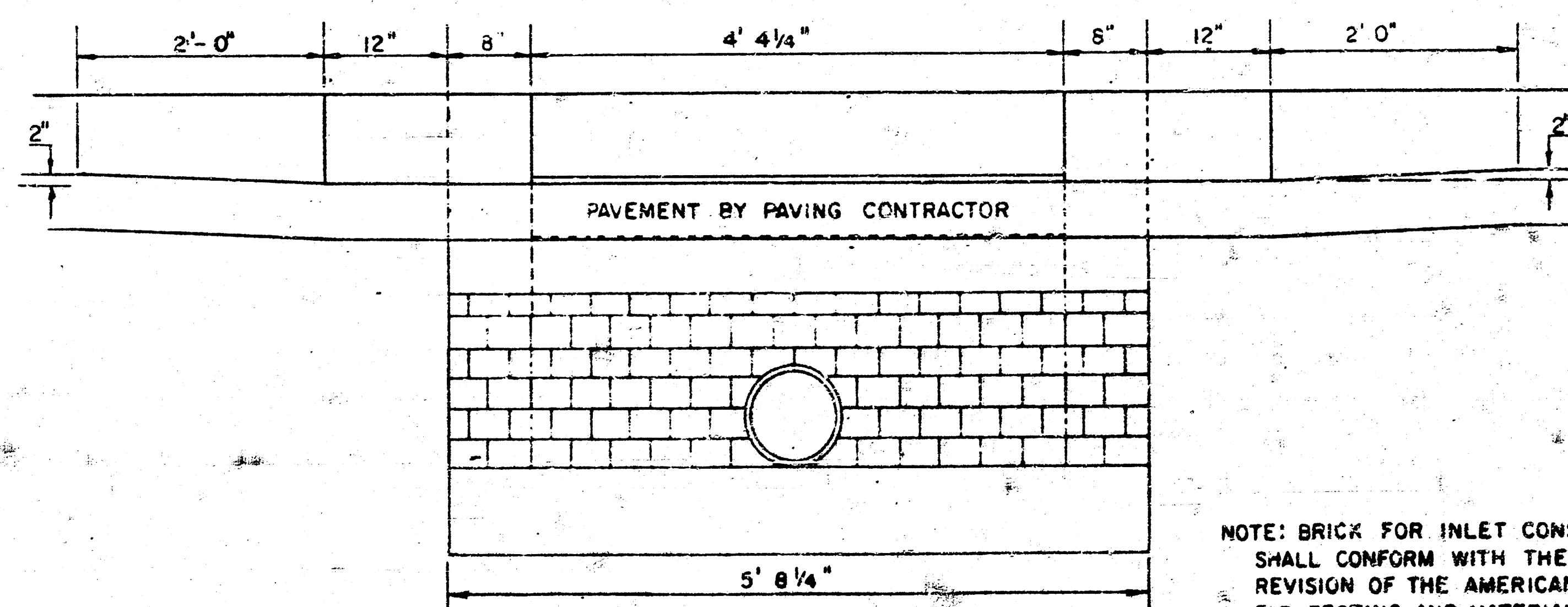
BAR	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	8	2	1	3	5	7	9
SIZE	4	4	4	4	4	4	4
W=4'2"	6'5"	3'4"	5'5"	-	-	-	1'5"
W=5'0"	8'1"	4'4"	5'5"	-	-	-	1'5"
W=6'0"	10'1"	5'4"	5'5"	-	-	-	1'5"
W=7'0"	11'1"	6'4"	5'5"	-	-	-	1'5"
W=8'0"	12'1"	7'4"	5'5"	-	-	-	1'5"

* NOTE: a₂ BARS TO BE PLACED APPROX 2" BELOW TOP OF INLET COVER

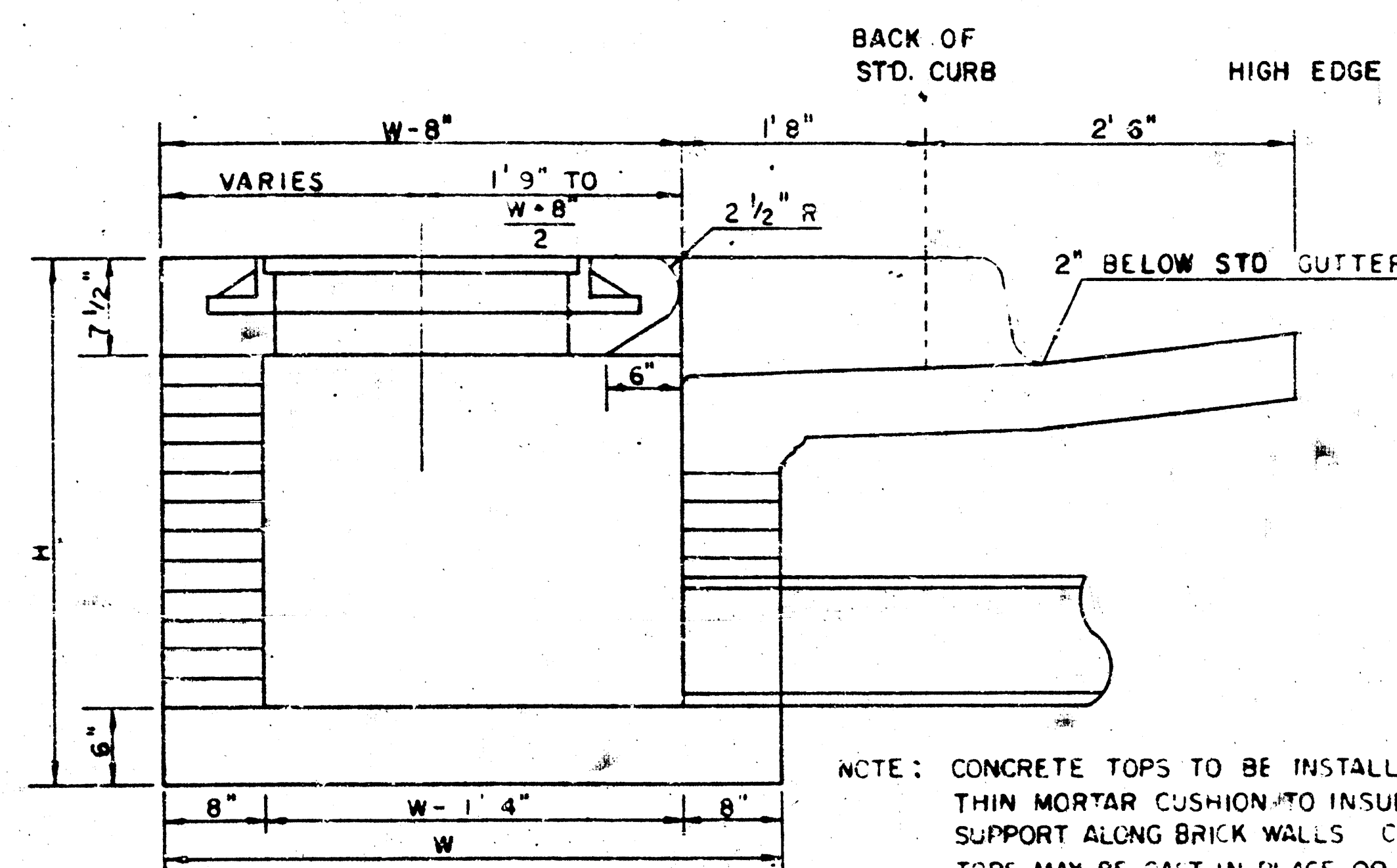
BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD CONC
4'2"	36" x 5'8 1/4" x 7 1/2"	21" & SMALLER	0.46 *
5'0"	44" x 5'8 1/4" x 7 1/2"	24" & 30"	0.57 *
6'0"	54" x 5'8 1/4" x 7 1/2"	36" & 42"	0.71 *
7'0"	64" x 5'8 1/4" x 7 1/2"	48" & 54"	0.84 *
8'0"	74" x 5'8 1/4" x 7 1/2"	60" & 66"	0.97 *

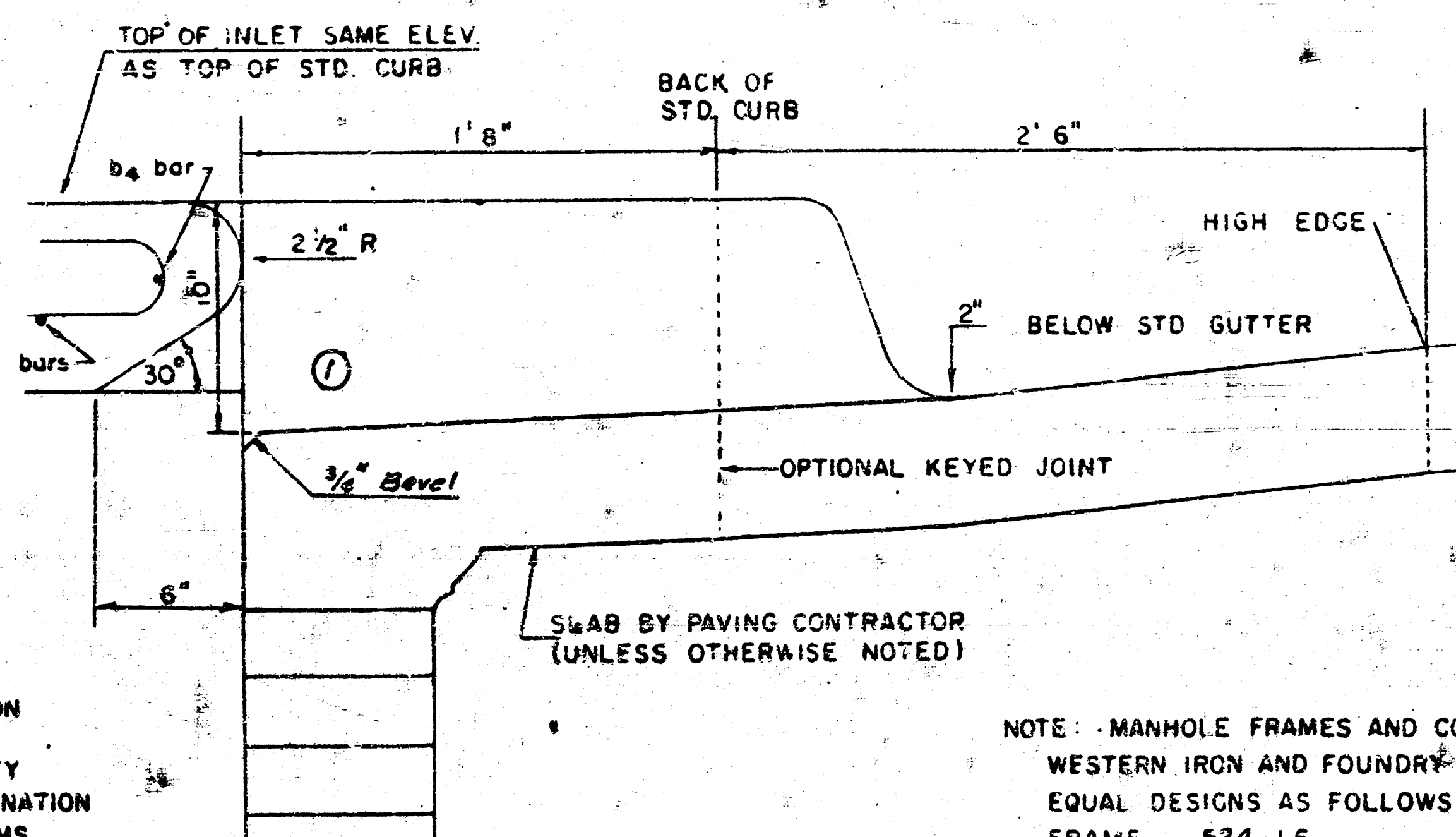
* GROSS VOLUME



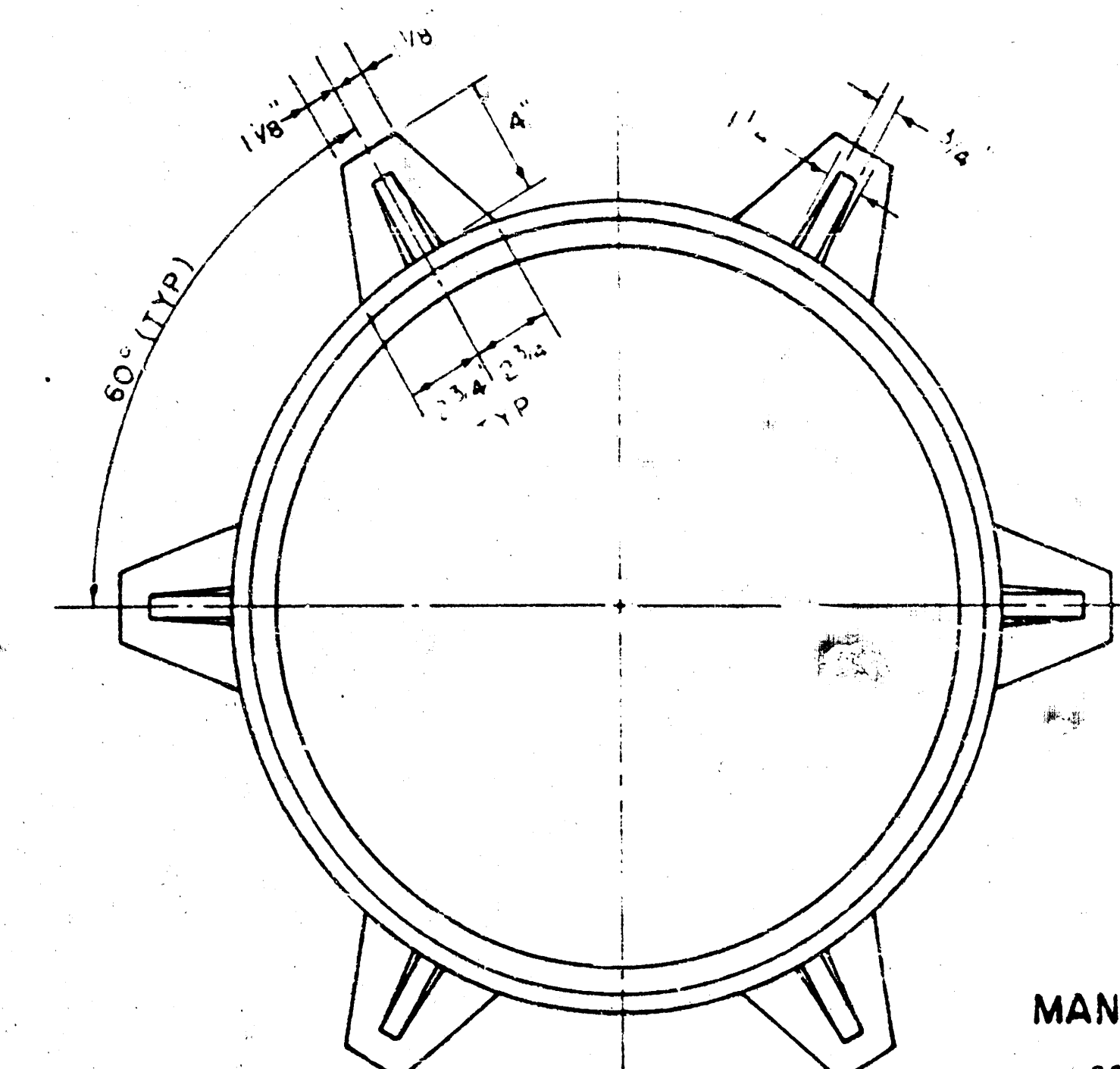
NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.



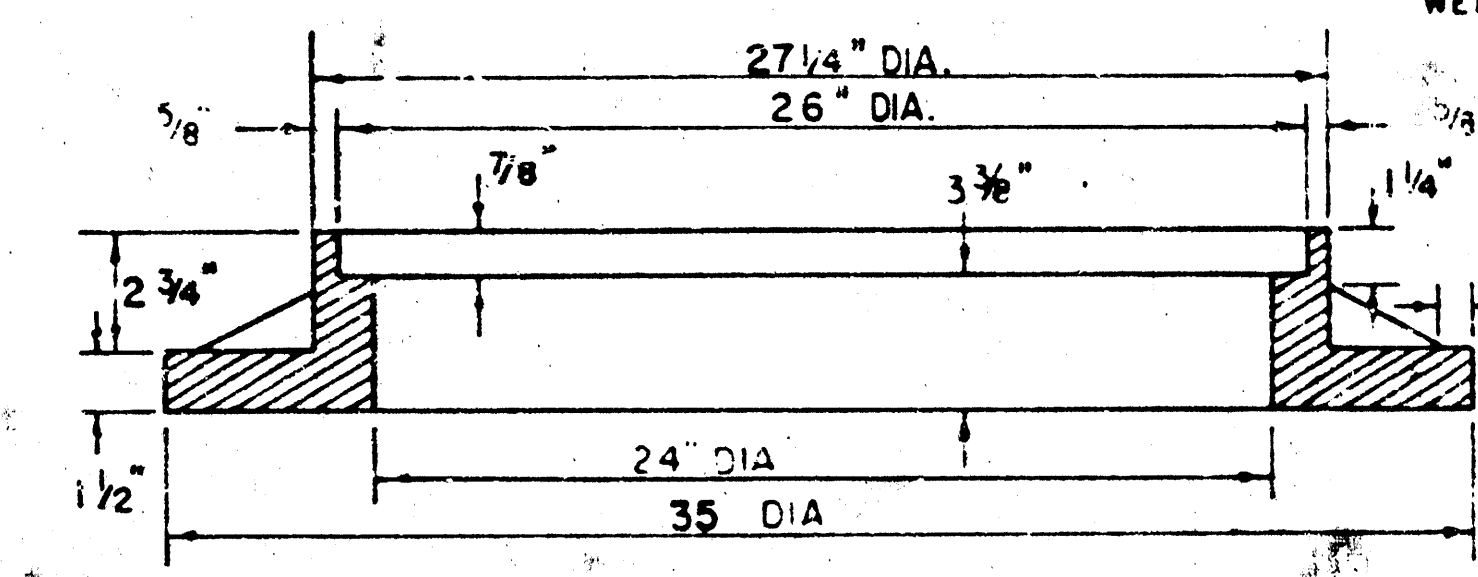
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE FOR INLET TOPS AND FLOORS SHALL BE STANDARD PAVING MIX.



NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL DESIGNS AS FOLLOWS:
FRAME 524-L6
FRAME (ALTERNATE) 500 A4
COVER 222 34 "NOBBY"

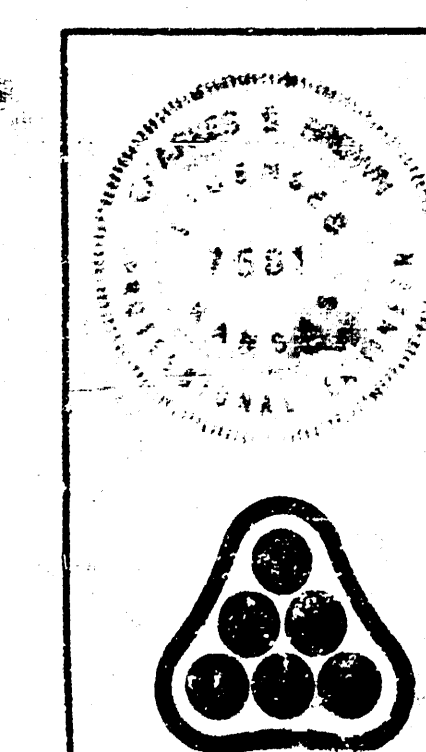
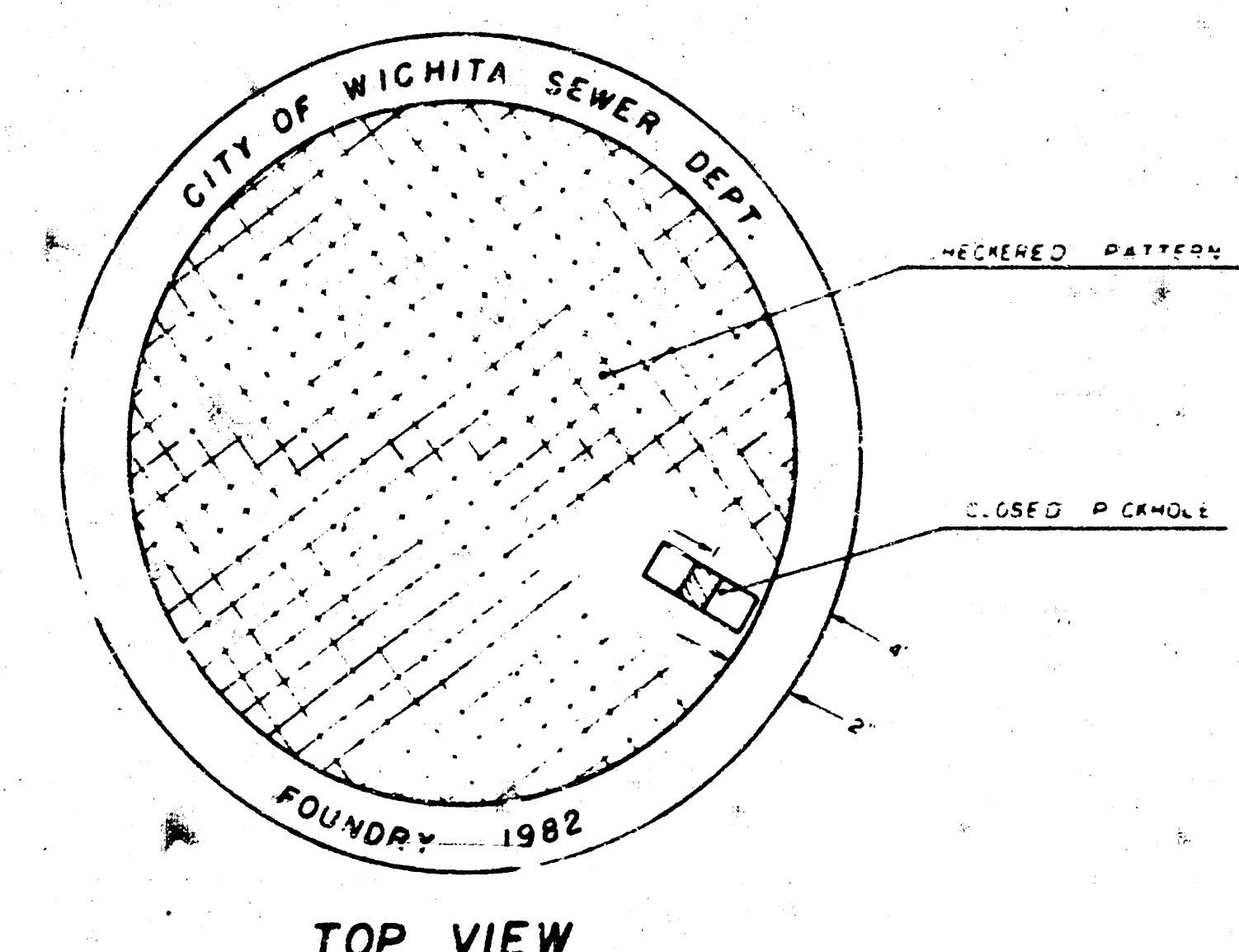


WEIGHT = 180 LBS.

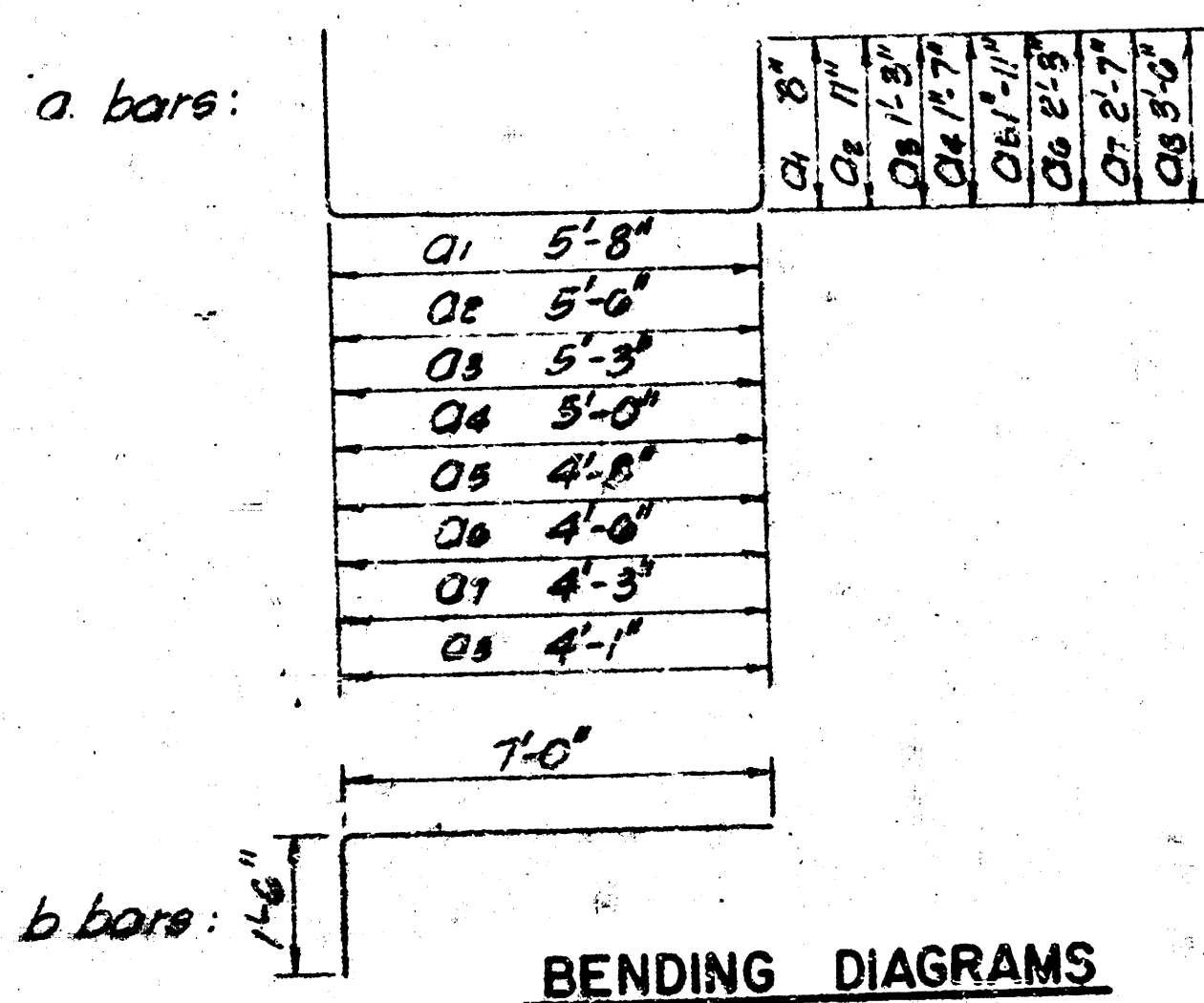
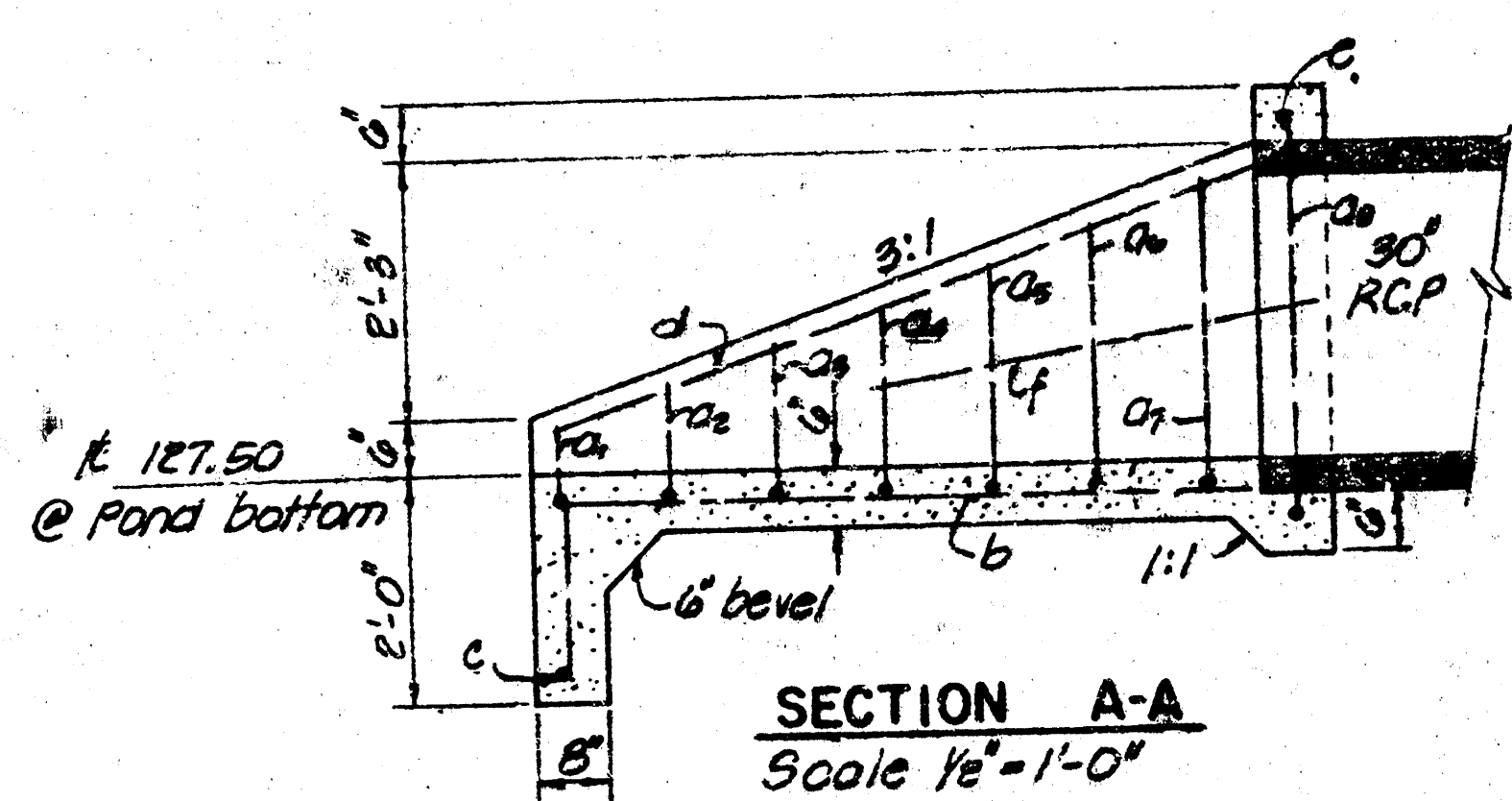
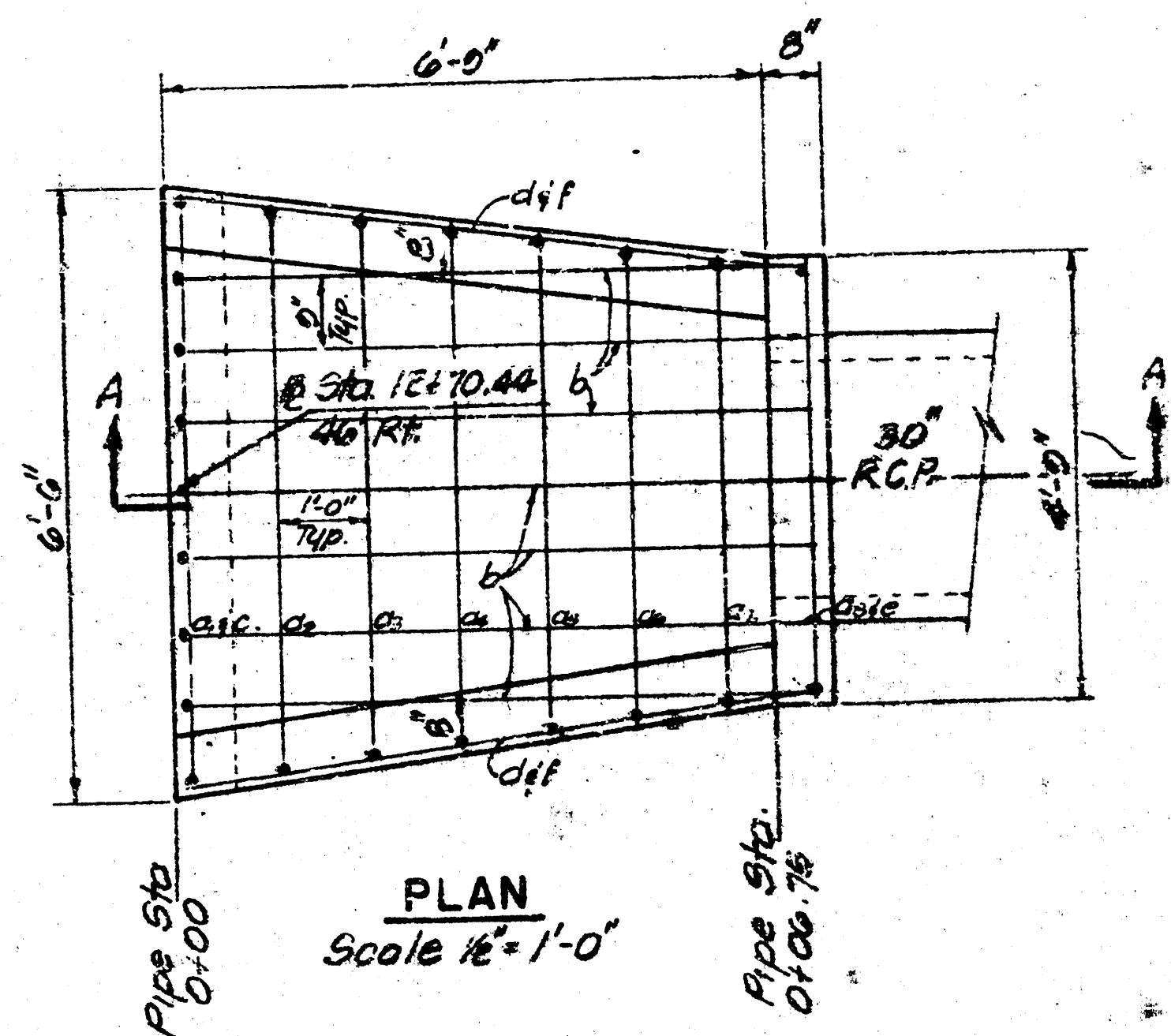


MANHOLE COVER

Weight: 180 Lbs.



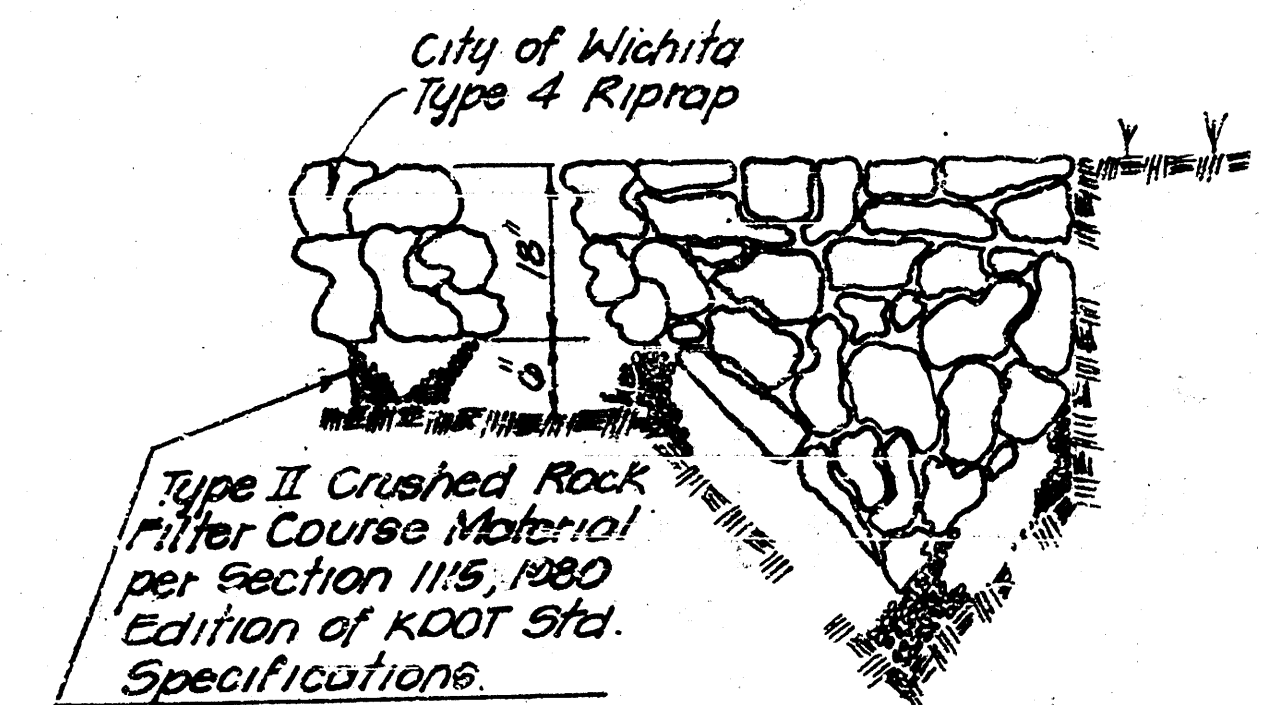
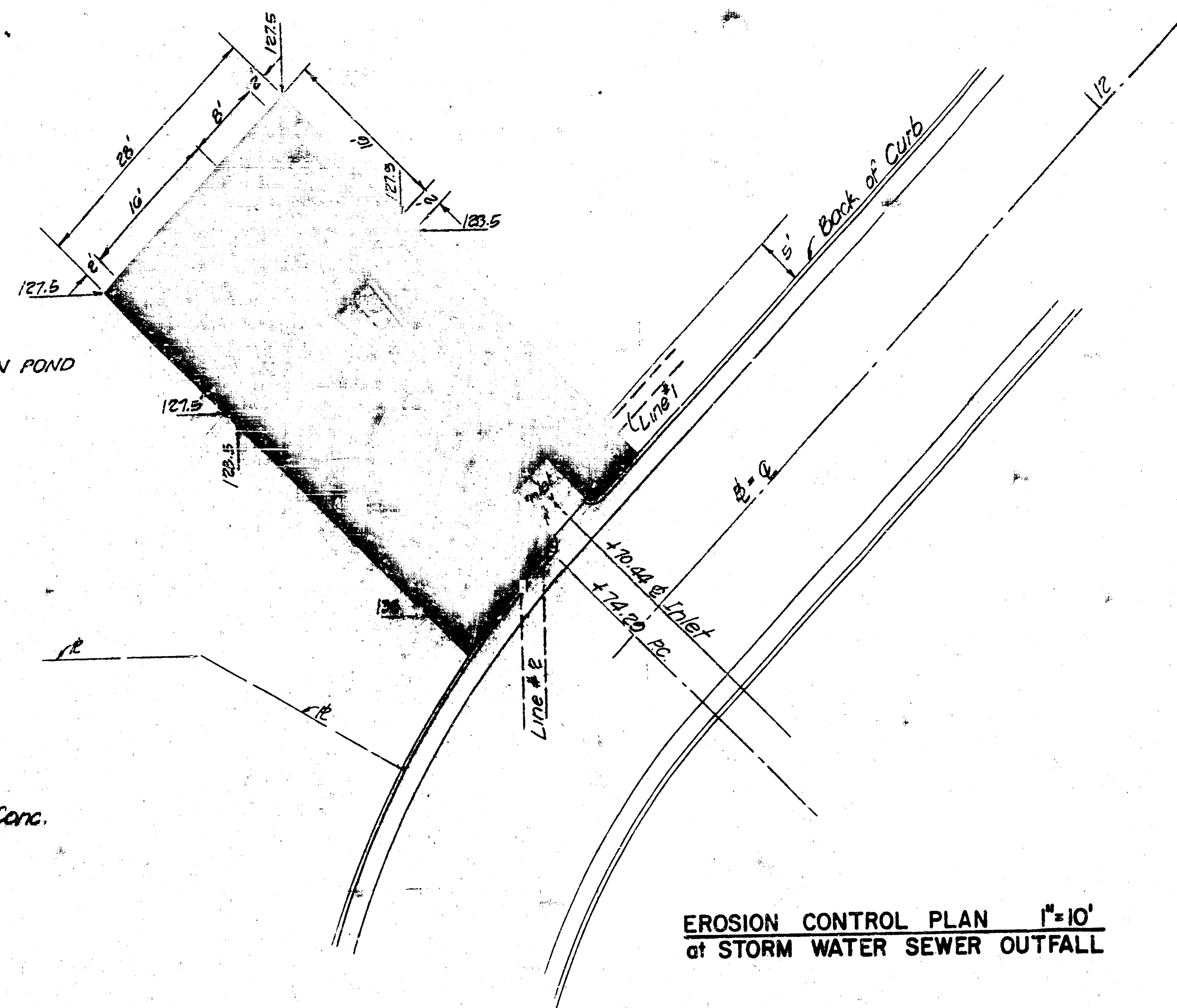
Revision		By	Date
GEORGETOWN II STORM WATER SEWER IMPROVEMENTS TYPE IA CURB INLET KANSAS GENERAL PROPERTIES, INC. PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	CITY	Job No.	56-02522-2
Drawn by	CITY	Date	
			3/6



Bar	Quantity	Length	Shape	Weight
a1	1	7'-0"		4.68
a2	1	7'-0"		4.68
a3	1	7'-0"		4.68
a4	1	7'-0"		4.68
a5	1	7'-0"		4.68
a6	1	7'-0"		4.68
a7	1	7'-0"		4.68
a8	1	7'-0"		4.68
a9	1	7'-0"		4.68
b	7	1'-0"		35.00
c	1	6'-0"		4.01
d	2	7'-0"		10.02
e	1	4'-6"		2.08
f	2	4'-3"		5.68
Total Reinforcing Steel, Pounds				103.33
Total Concrete, Cubic Yards				2.01

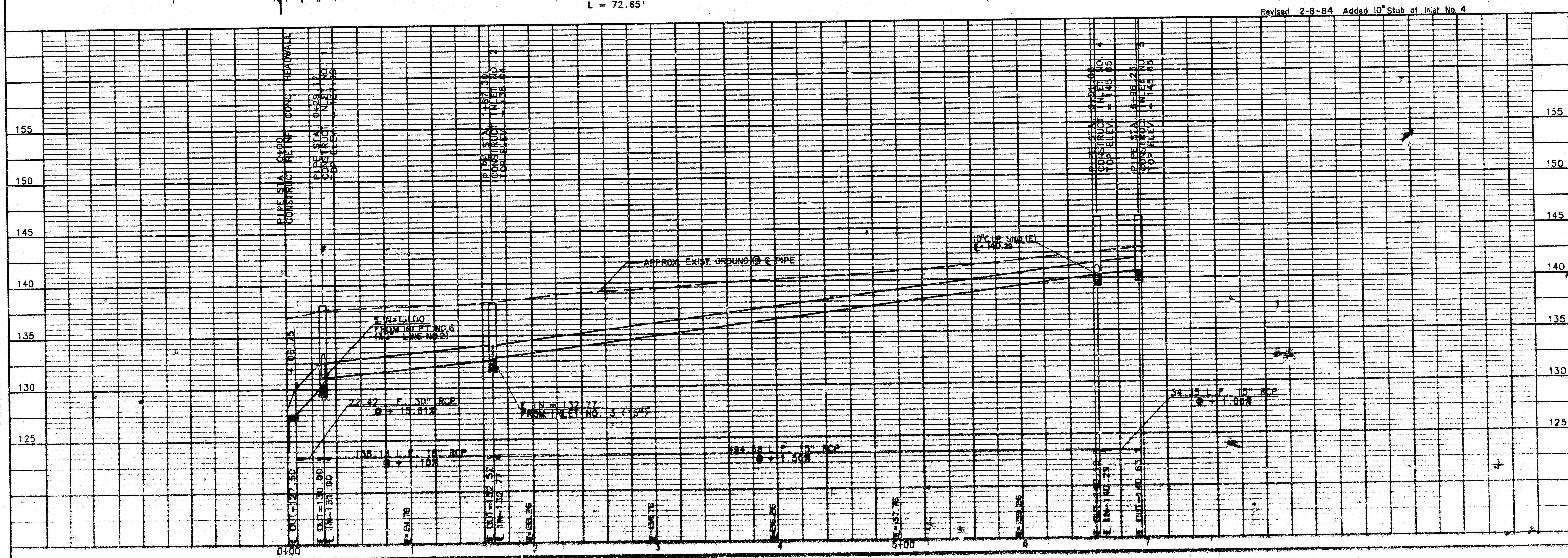
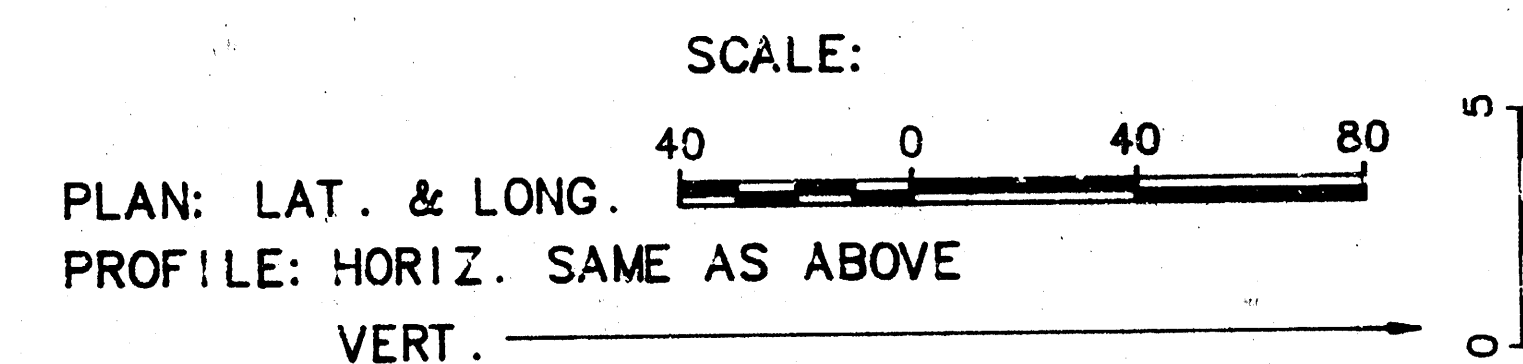
HEADWALL FOR 30" PIPE

- NOTES
- 1- All reinforcing steel shall be #4 bars.
 - 2- All exposed edges shall have 1/2" bevel.
 - 3- All concrete shall be 6-Sack paving mix.
 - 4- All bars to have 2" min. clearance to edge of Conc.



No.	Revision	By	Date
1	GEORGETOWN II STORM WATER SEWER IMPROVEMENTS REINFORCED CONCRETE HEADWALL & EROSION CONTROL DETAILS KANSAS GENERAL PROPERTIES INC. PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS		
Designed by	CSB	Checked by	CSB
Drawn by	CHK, ES	Date	DEC. 1988
Job No.	88-002	Sheet	4 of 5

PROFILE	SURVEYED PLOTTED GRADES CHECKED B M NOTED	BY _____	DATE _____
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GEORGETOWN II ADDITION
STORM WATER SEWER IMPROVEMENTS

LINE NO. 1

KANSAS GENERAL PROPERTIES, INC.

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

Designed by	CSB	Job No	36-82522-2-1540
		Date	07-27-1983

Designed by	CSB	Job No	36-82522-2-1540
		Date	07-27-1983

