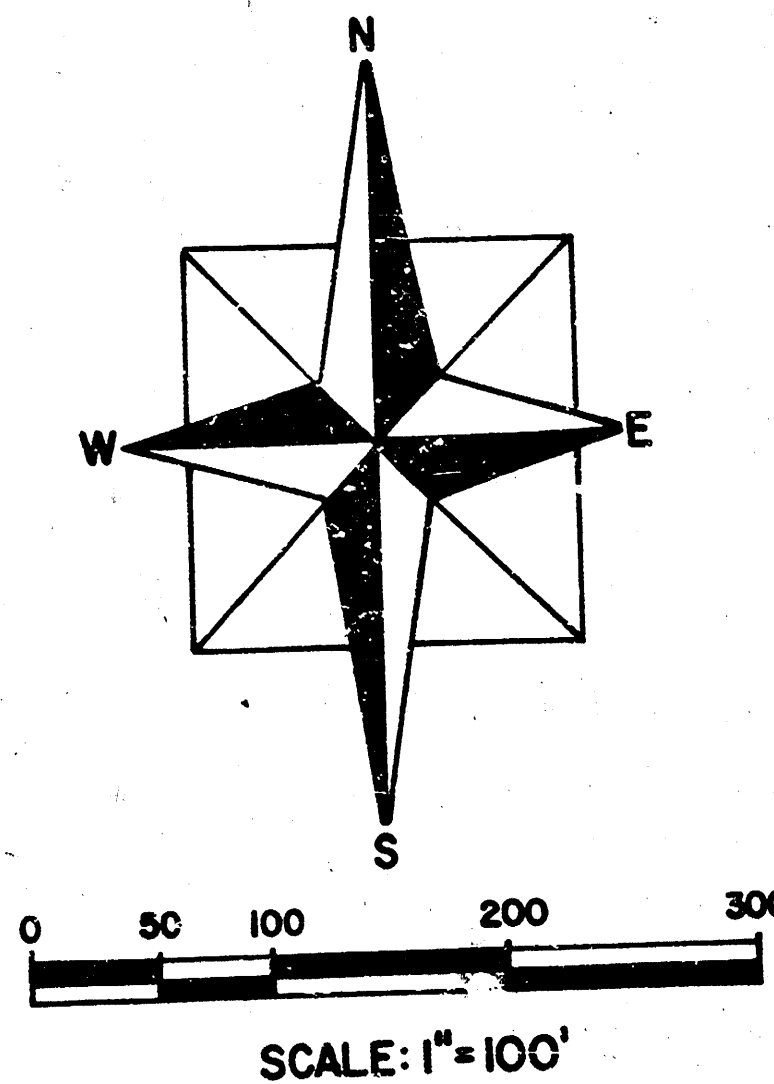


SILVER SPRINGS

LOT 2, BLOCK 1, SILVER SPRINGS
AN ADDITION TO THE CITY OF WICHITA, KANSAS
PAVING, GRADING AND STORM SEWER PLAN



OWNER :
FLOYD R. HARDESTY
4606 SOUTH GARNETT
TULSA, OKLAHOMA
74145
PHONE: 622-3600

GENERAL NOTES

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE
WITH CITY OF WICHITA SPECIFICATION

EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT
KNOWN AND LOCATIONS ARE APPROXIMATE. THE EXACT LOCATIONS
AND NOTIFICATION OF THE PROPER AGENCY IS THE RESPONSIBILITY
OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.

LEGEND

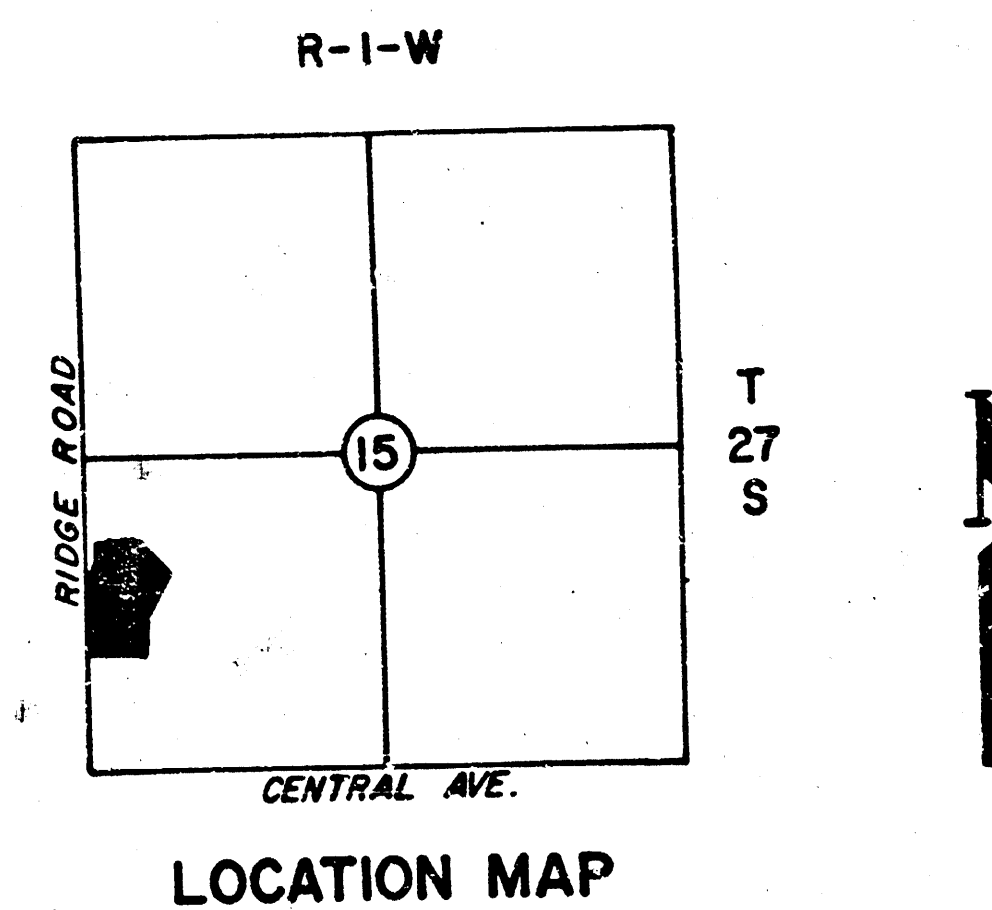
	PROPOSED STORM SEWER
	PROPOSED MANHOLE
	PROPOSED INLET
	DRAINAGE AREA LIMITS
	SANITARY SEWER EASEMENT
	STORM SEWER EASEMENT
	UTILITY EASEMENT
	DRAINAGE EASEMENT
	EXISTING GROUND CONTOUR
	PROPOSED FINISHED CONTOUR

SOUTHWEST CORNER
OF SW/4 OF SECTION
15, T-27-S, R-1-W.

BENCHMARK: APPROXIMATELY 755.12 FEET EAST
AND 1500.36 FEET NORTH OF THE SOUTHWEST
CORNER OF THE SW/4 OF SECTION 15, T-27-S
R-1-W.

ALC. YOUNG & ASSOCIATES
OF TULSA, INC.

CONSULTING ENGINEERING • PLANNING • ENVIRONMENTAL ANALYSIS



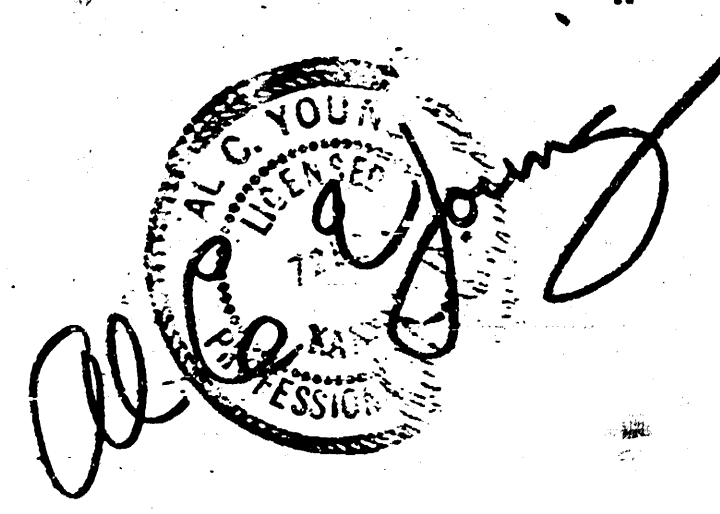
LOCATION MAP

3-23-84
APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers *[Signature]*
Storm Sewers *[Signature]*
Drainage Approaches *[Signature]*

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING, DRAINAGE AND STORM
3	SEWER PLAN
4	PAVING PLAN
5-6	PAVING PROFILE
7-10	STORM SEWER PROFILES
11	STANDARD DETAILS
12	DECEL LANE; ENTRY DETAIL SHEET



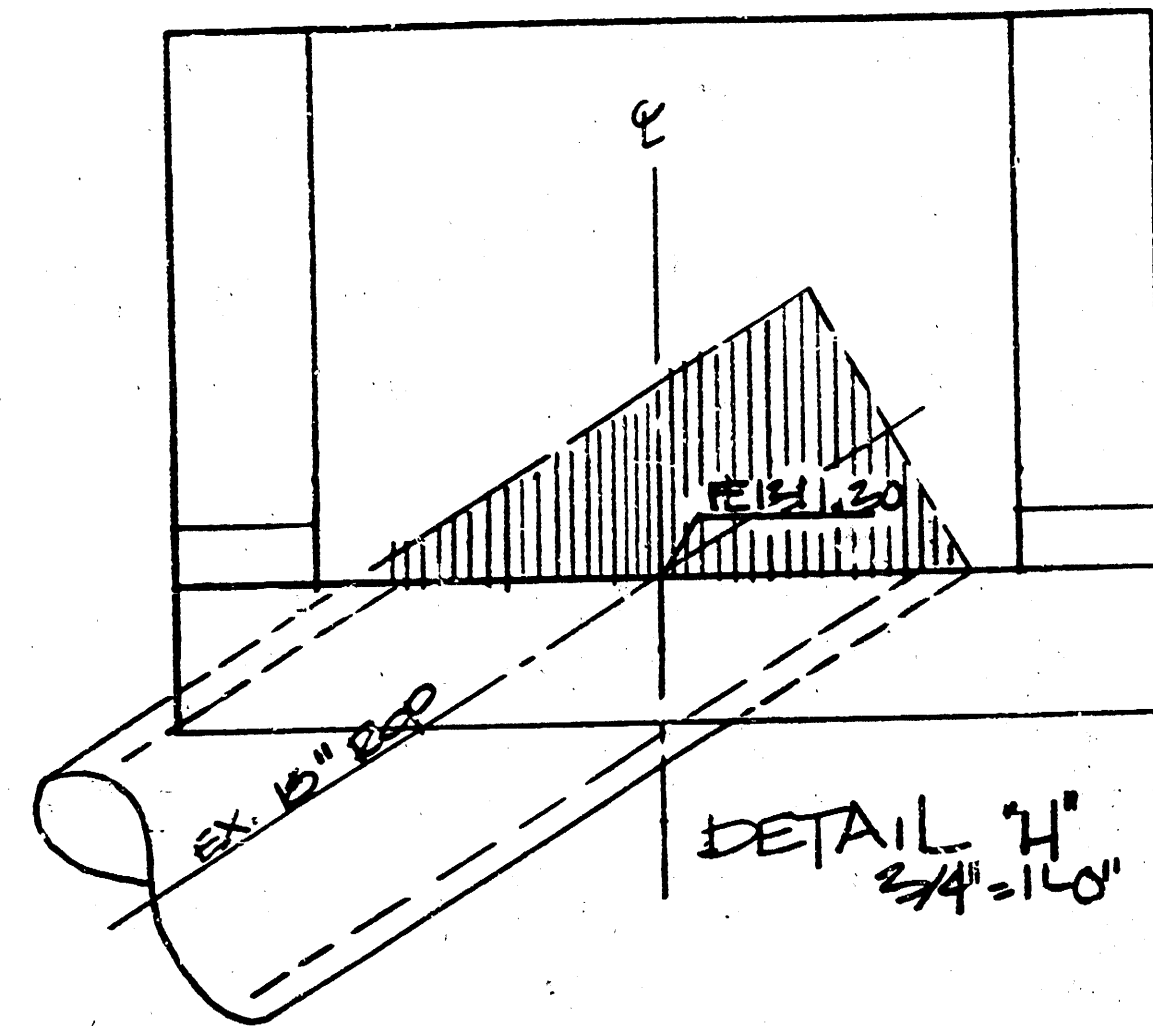
CITY OF WICHITA, KANSAS	
ALC. YOUNG & ASSOCIATES	
808 S. PEORIA • TULSA, OKLA. 74120 • 918/582-9181	
PLAN SCALE 1"=100'	DRAWN DESIGNED SILVER SPRINGS TITLE SHEET
PROFILE SCALE HORIZONTAL: 1"=100' VERTICAL: 1"=10'	RECOMMENDED ENGINEERING DIVISION
FILE: 4337	DRAWING: DATE: 1/11
ATLAS PAGE NO.	SHEET 1 OF 11 SHEETS

NO.	REVISION	BY	DATE
☐ APPROVED FOR CONSTRUCTION			
☐ NOT APPROVED FOR CONSTRUCTION			

NOTE 3

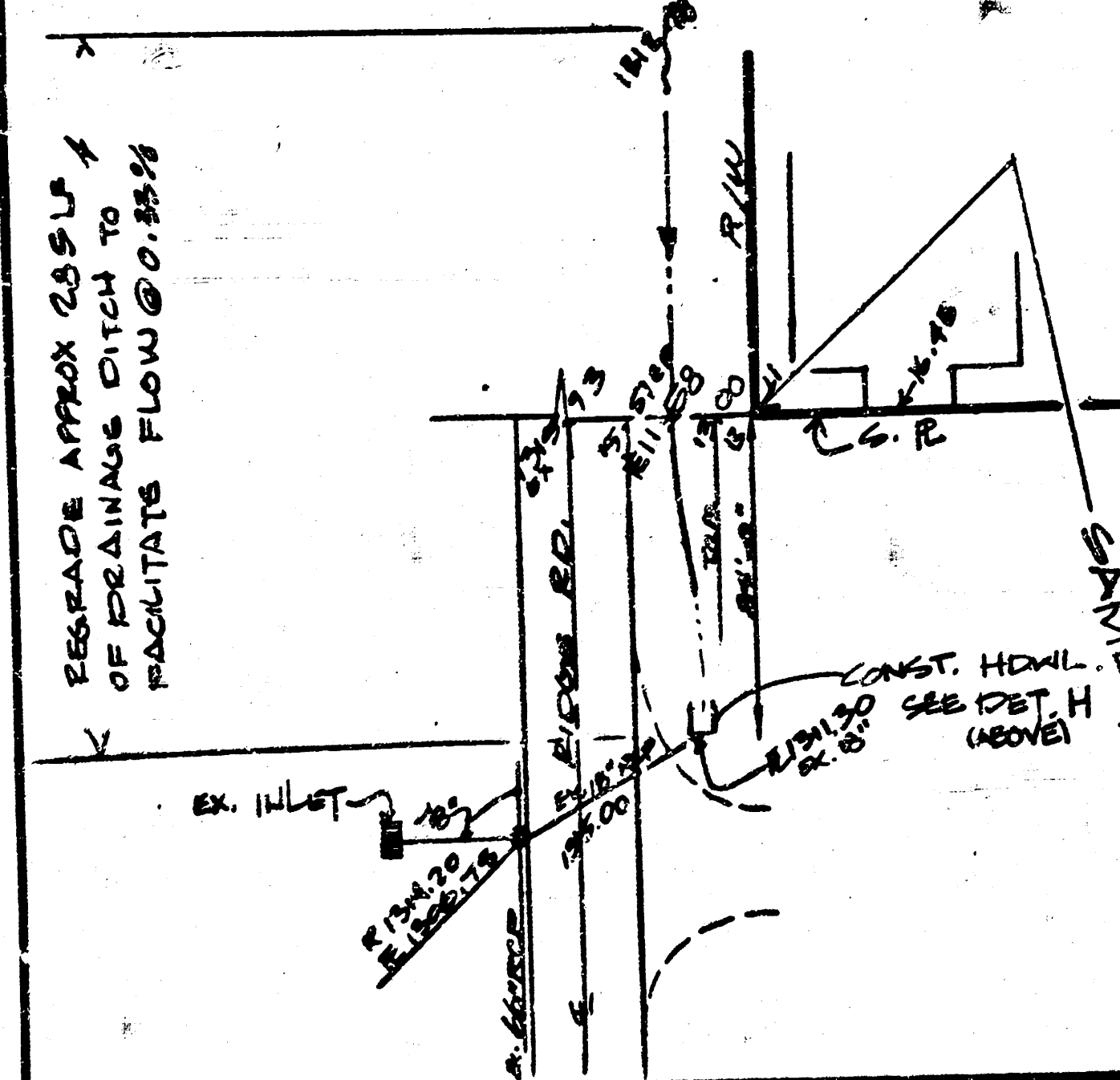
BOXED ELEVATIONS ARE
FINISH GRADES AT WEST
PROPERTY LINE, LOCATED
BY DIMENSION

CONST. HEADWALL W/1" TYPE
WINGS AT EXIST. 18" RCP. CUT AND
REMOVE PORTION OF EXIST. PIPE
AS INDICATED FLUSH W/RCE
OF WALL. (SHADED AREA.)



DETAIL 1/4"
3/4"=1'-0"

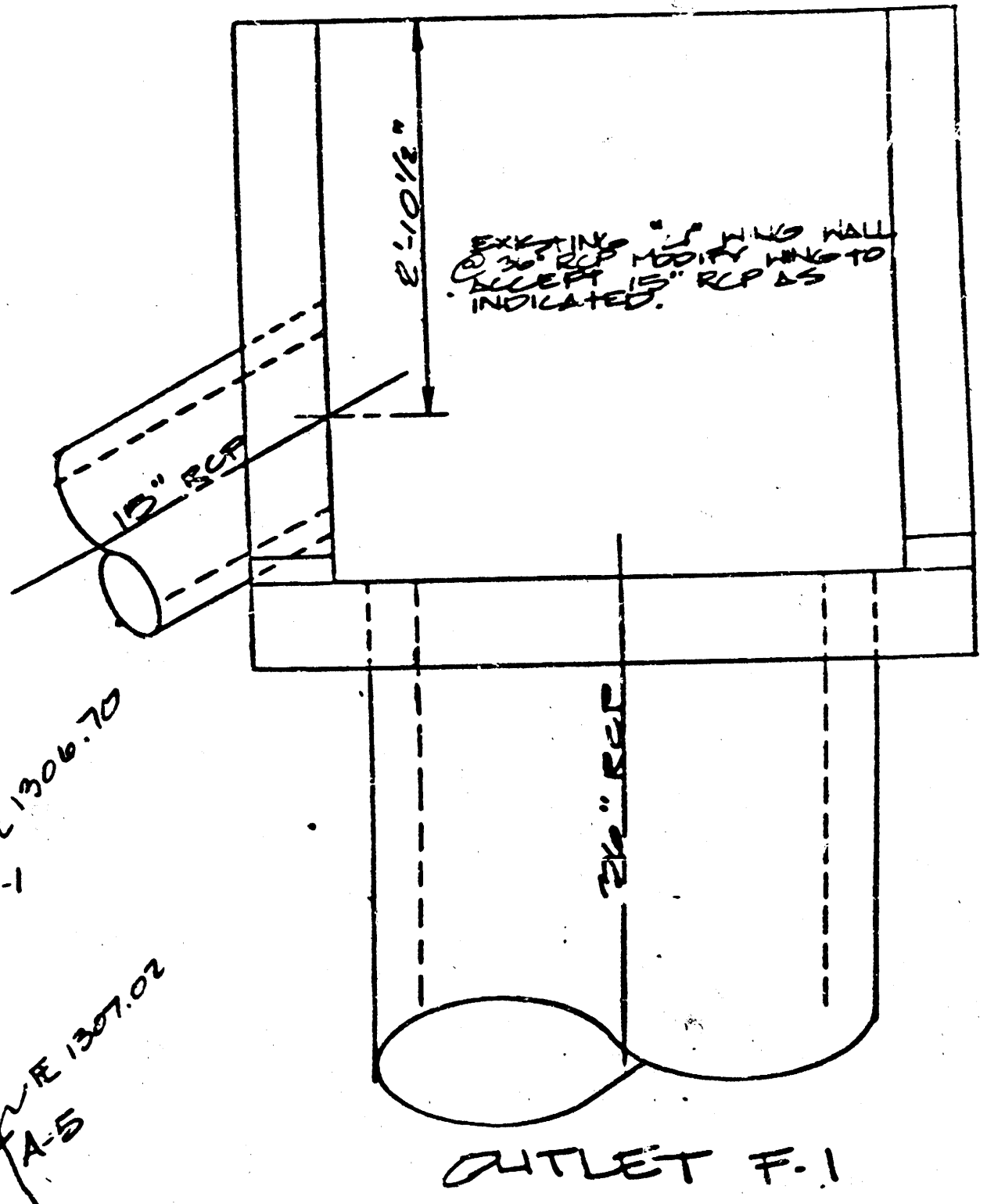
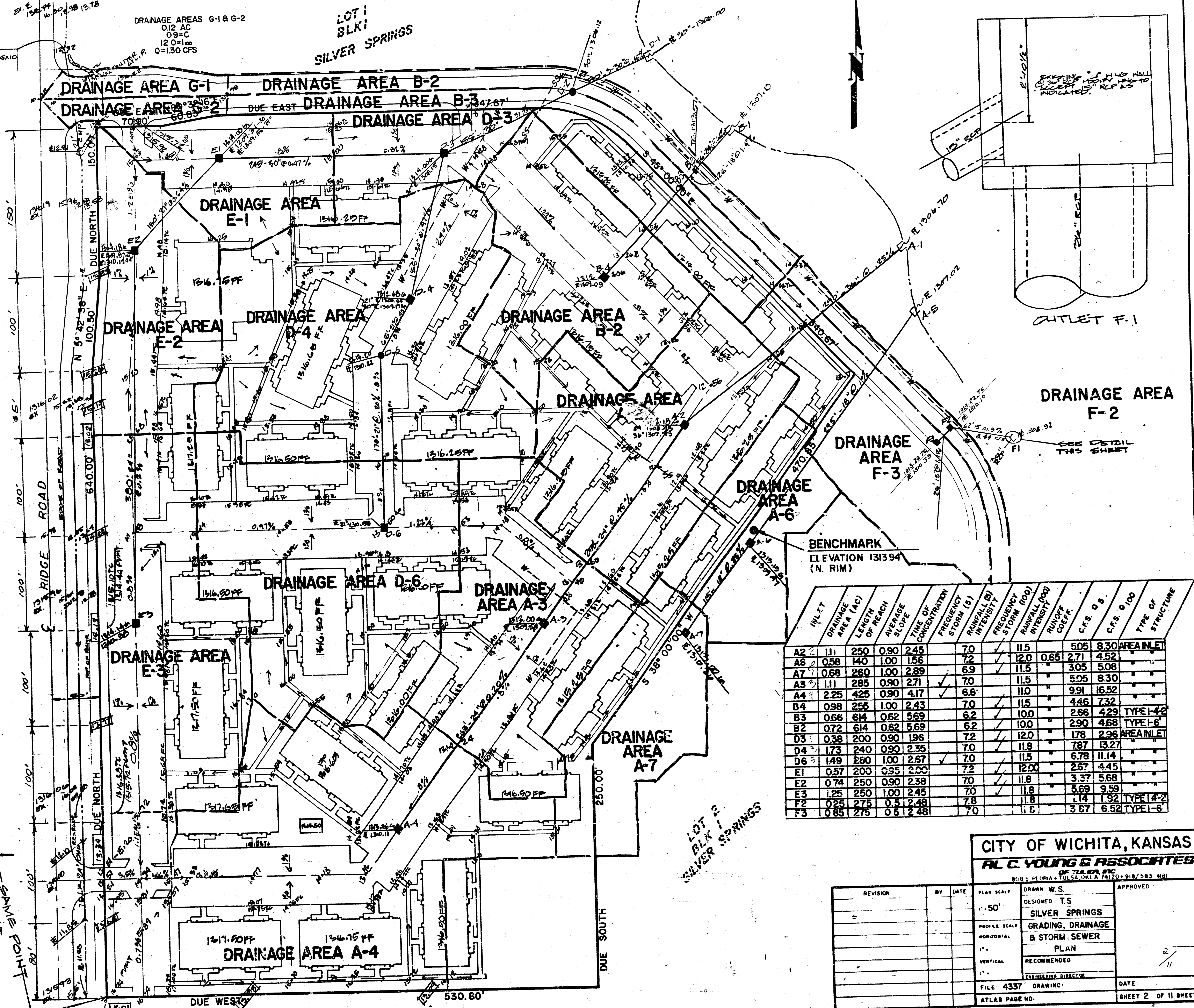
EGRADE APPROX 2.5% UP
OF EXISTING DITCH TO
INDICATE FLOW @ 0.5%
SLOPE



REACH
100 CFS
100 CFS

DRAINAGE AREAS G-1 & G-2
0.12 AC
0.9=C
12.0=100
Q=130 CFS

LOT 1
BLK 1
SILVER SPRINGS



OUTLET F-1

DRAINAGE AREA
F-2

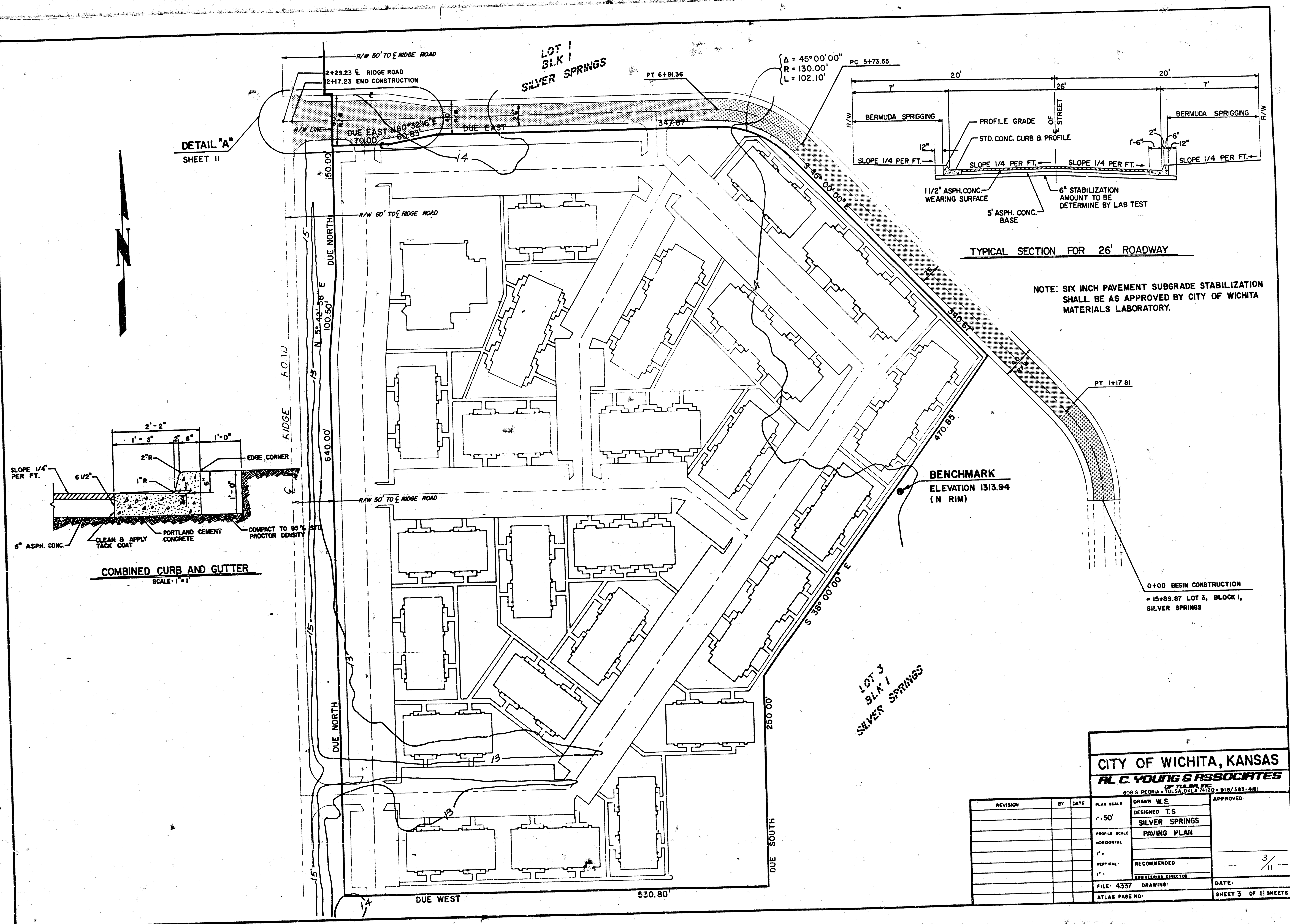
SEE DETAIL
THIS SHEET

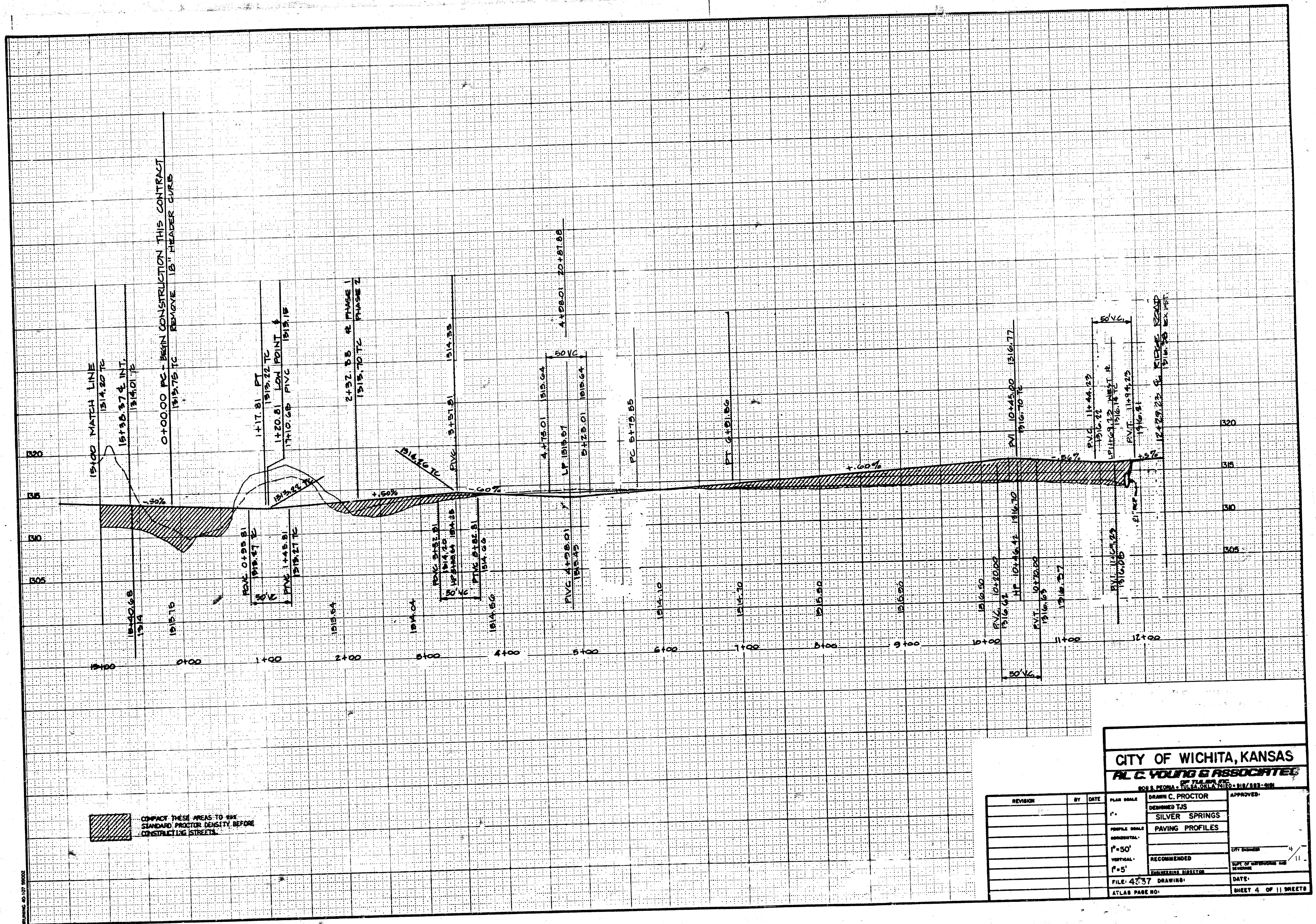
BENCHMARK
ELEVATION 1313.94
(N. RIM)

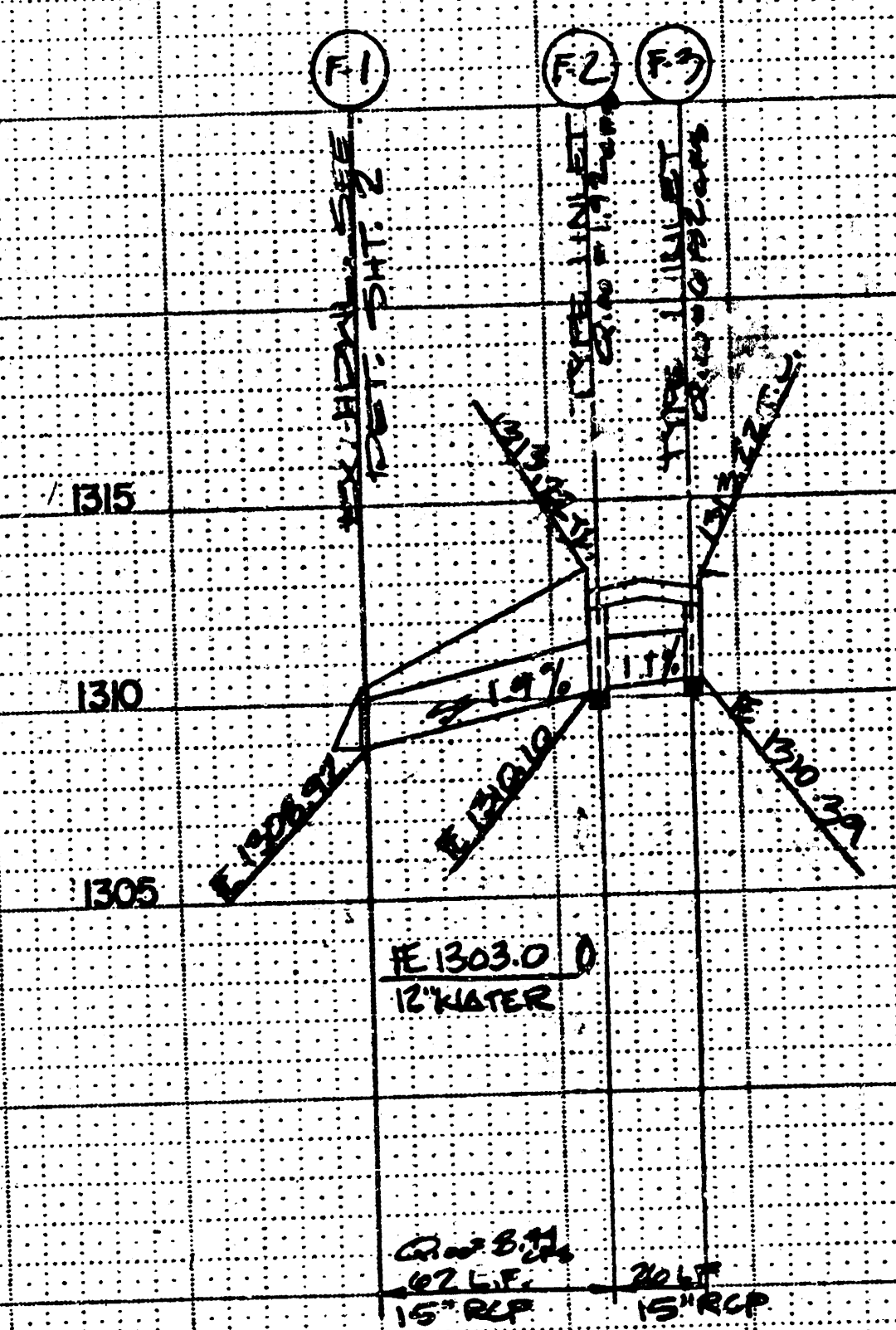
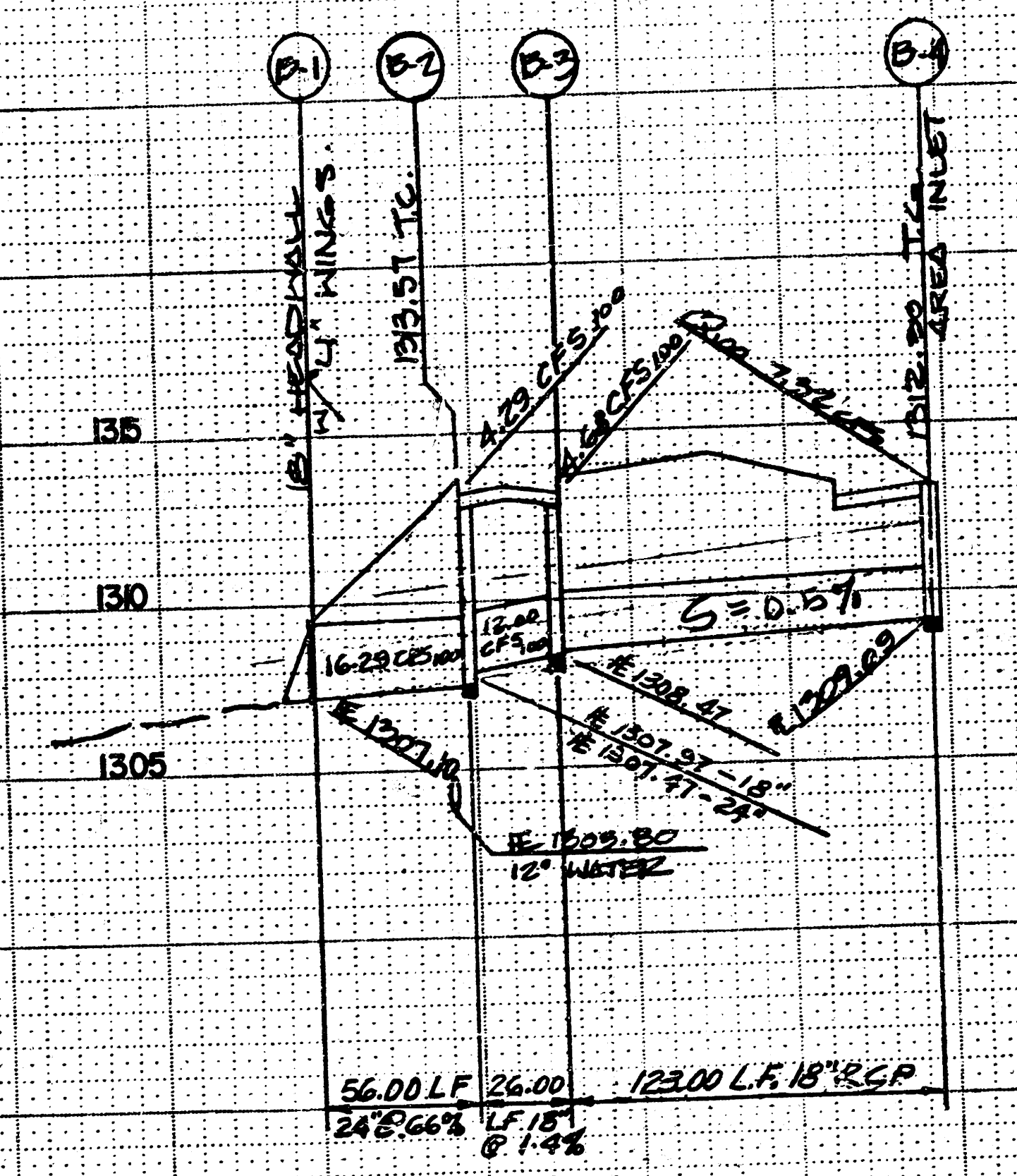
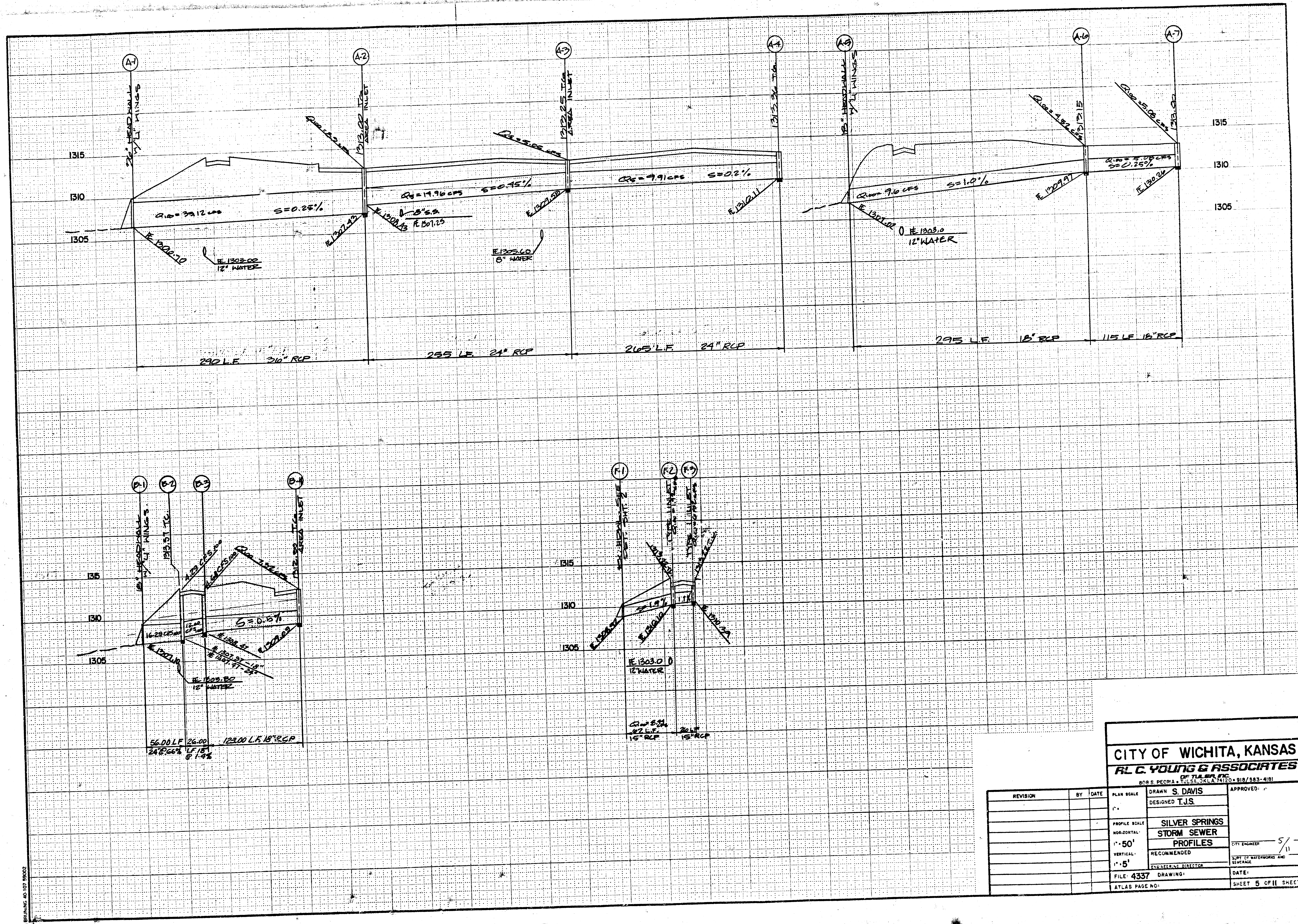
INLET	DRAINAGE AREA (AC)	LENGTH OF REACH	AVERAGE SLOPE	TIME OF CONCENTRATION	FREQUENCY STORM (S)	RAINFALL (IN)	FREQUENCY STORM (100)	RAINFALL (100)	INTENSITY	COEFF.	C.F.S. @ 5	C.F.S. @ 100	TYPE OF STRUCTURE
A2	1.11	250	0.90	2.45	70	11.5	11.5	0.65	2.71	4.52	505	830	AREA INLET
A5	0.58	140	1.00	1.56	72	12.0	12.0	0.65	2.71	4.52	271	452	
A7	0.68	260	1.00	2.89	69	11.5	11.5	0.65	2.71	4.52	305	508	
A3	1.11	285	0.90	2.71	70	11.5	11.5	0.65	2.71	4.52	505	830	
A4	2.25	425	0.90	4.17	66	11.0	11.0	0.65	2.71	4.52	991	1652	
B4	0.98	255	1.00	2.43	70	11.5	11.5	0.65	2.71	4.52	446	732	
B3	0.66	614	0.62	5.69	62	10.0	10.0	0.65	2.71	4.52	266	429	TYPE I-4
B2	0.72	614	0.62	5.69	62	10.0	10.0	0.65	2.71	4.52	290	468	TYPE I-6
D3	0.38	200	0.90	1.96	72	12.0	12.0	0.65	2.71	4.52	178	296	AREA INLET
D4	1.73	240	0.90	2.35	70	11.5	11.5	0.65	2.71	4.52	787	1327	
D6	1.49	280	1.00	2.57	70	11.5	11.5	0.65	2.71	4.52	678	1114	
E1	0.57	200	0.95	2.00	72	12.0	12.0	0.65	2.71	4.52	267	445	
E2	0.74	250	0.90	2.38	70	11.5	11.5	0.65	2.71	4.52	337	568	
E3	1.25	250	1.00	2.45	70	11.5	11.5	0.65	2.71	4.52	569	959	
F2	0.25	275	0.5	2.48	78	11.8	11.8	0.65	2.71	4.52	114	192	TYPE I-4
F3	0.85	275	0.5	2.48	70	11.5	11.5	0.65	2.71	4.52	367	652	TYPE I-6

CITY OF WICHITA, KANSAS
R. C. YOUNG & ASSOCIATES
808 S. FLORIDA - TULSA, OKLA. 74106-918/283-4181

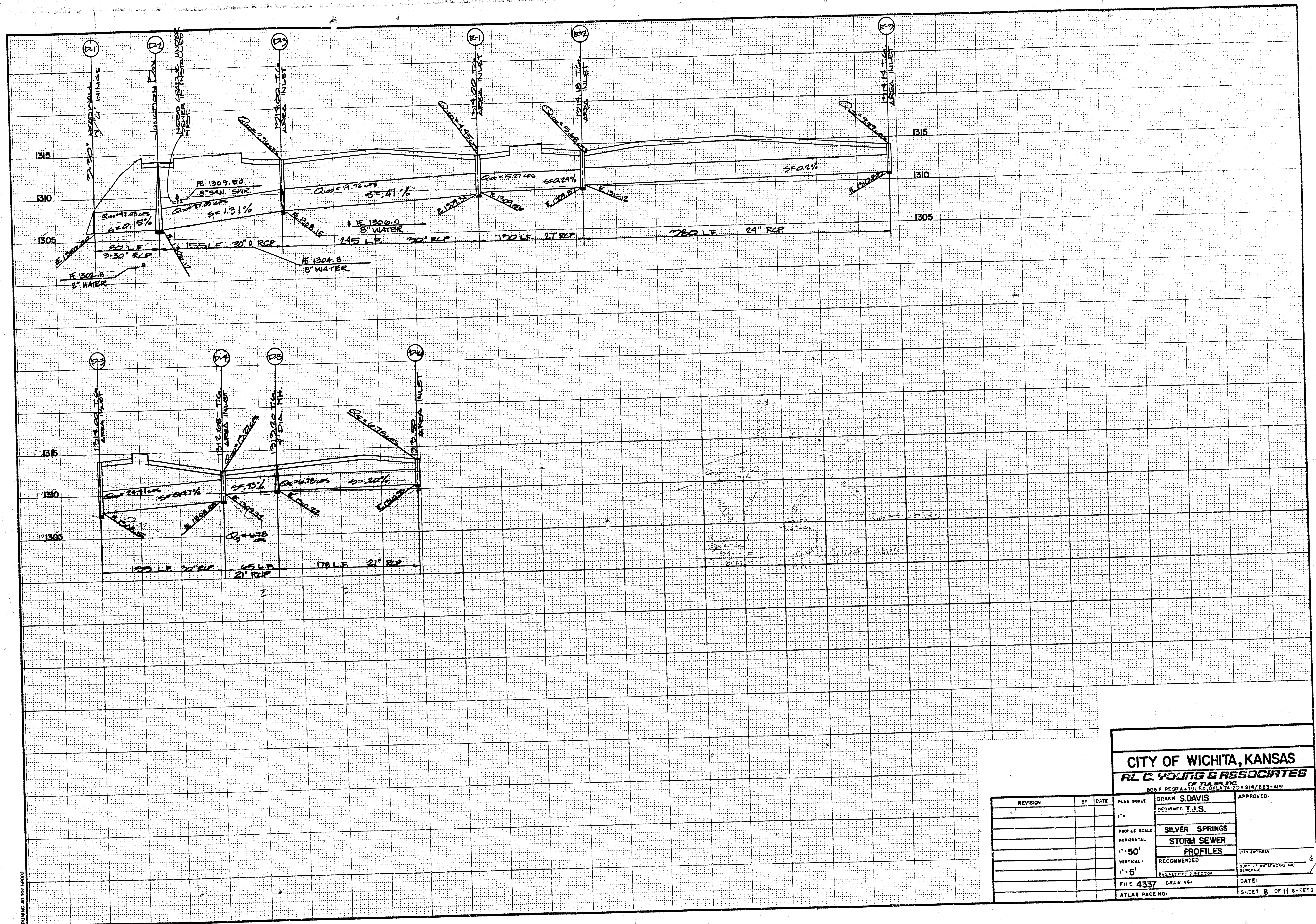
REVISION	BY	DATE	PLAN SCALE	DESIGNED	APPROVED
			1"=50'	W.S.	
				SILVER SPRINGS	
				GRADING, DRAINAGE	
				& STORM SEWER	
				PLAN	
				RECOMMENDED	
				ENGINEERING DIRECTOR	
			FILE 4337	DRAWING	DATE
			ATLAS PAGE NO.		SHEET 2 OF 11 SHEETS







CITY OF WICHITA, KANSAS		R.L.C. YOUNG & ASSOCIATES	
DESIGNED S. DAVIS		APPROVED: _____	
DESIGNED T.J.S.		CITY ENGINEER 5/11	
SILVER SPRINGS		SHEET 5 OF 11 SHEETS	
STORM SEWER		DATE: _____	
PROFILES		DRAWING: _____	
RECOMMENDED		ATLAS PAGE NO: _____	
ENGINEER: DIRECTOR		SHEET 5 OF 11 SHEETS	
FILE: 4337		DATE: _____	



CITY OF WICHITA, KANSAS			
R.L. C. YOUNG & ASSOCIATES			
808 S. PEOPLES • 918/263-4191			
REVISION	BY	DATE	APPROVED
PLAN SCALE	DRAWN S. DAVIS		
1" = 10'	DESIGNED T.J.S.		
PROFILE SCALE	SILVER SPRINGS		
HORIZONTAL	STORM SEWER		
1" = 50'	PROFILES		
VERTICAL	RECOMMENDED		
1" = 5'	ELECTRICITY & TELEPHONE		
FILE: 4337	DRAWING:		DATE:
ATLAS PAGE NO:	SHEET 6		OF 11 SHEETS

MANHOLE FRAME AND COVER DETAIL

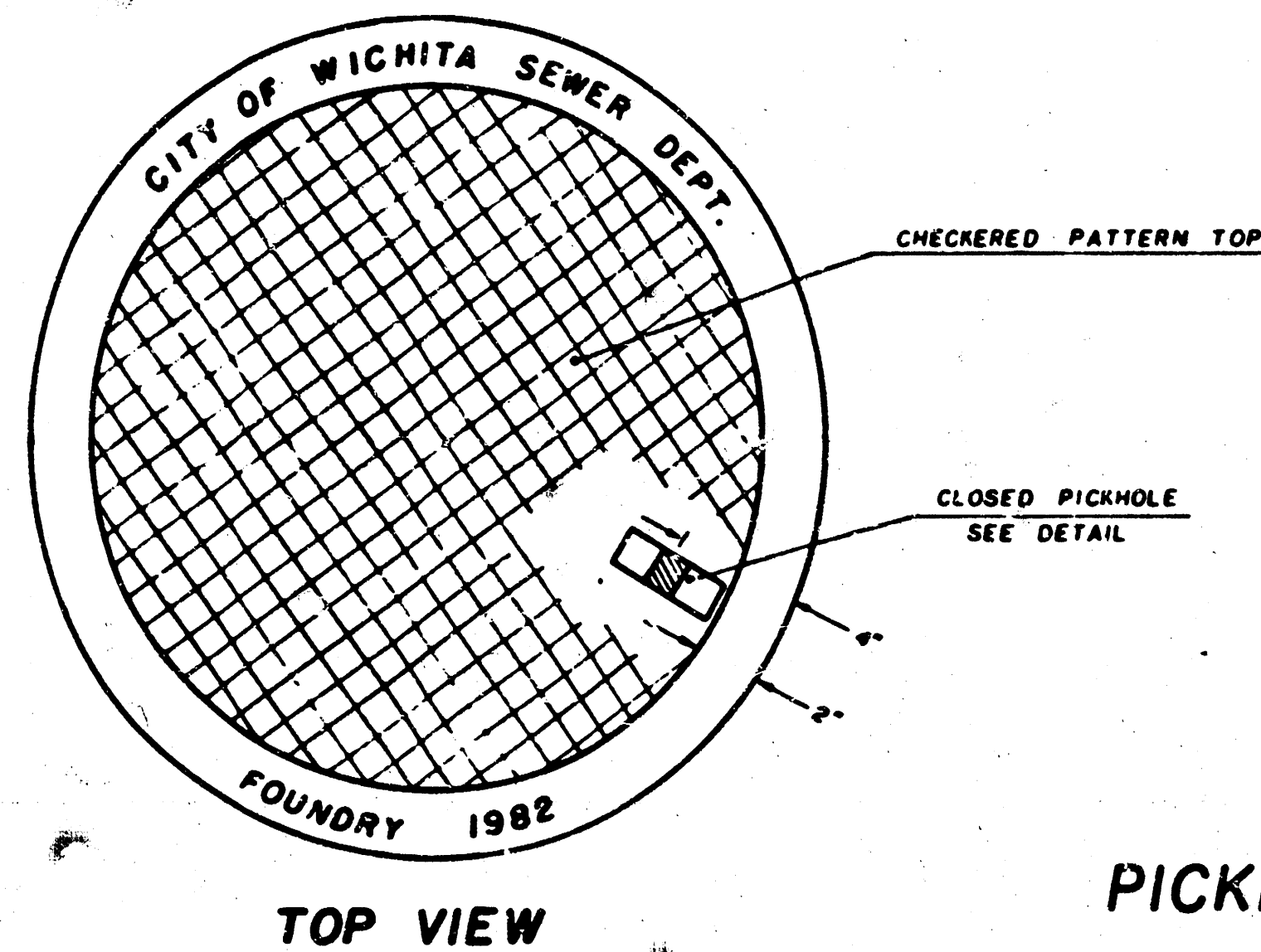
ADOPTED AS STANDARD DESIGN

BY

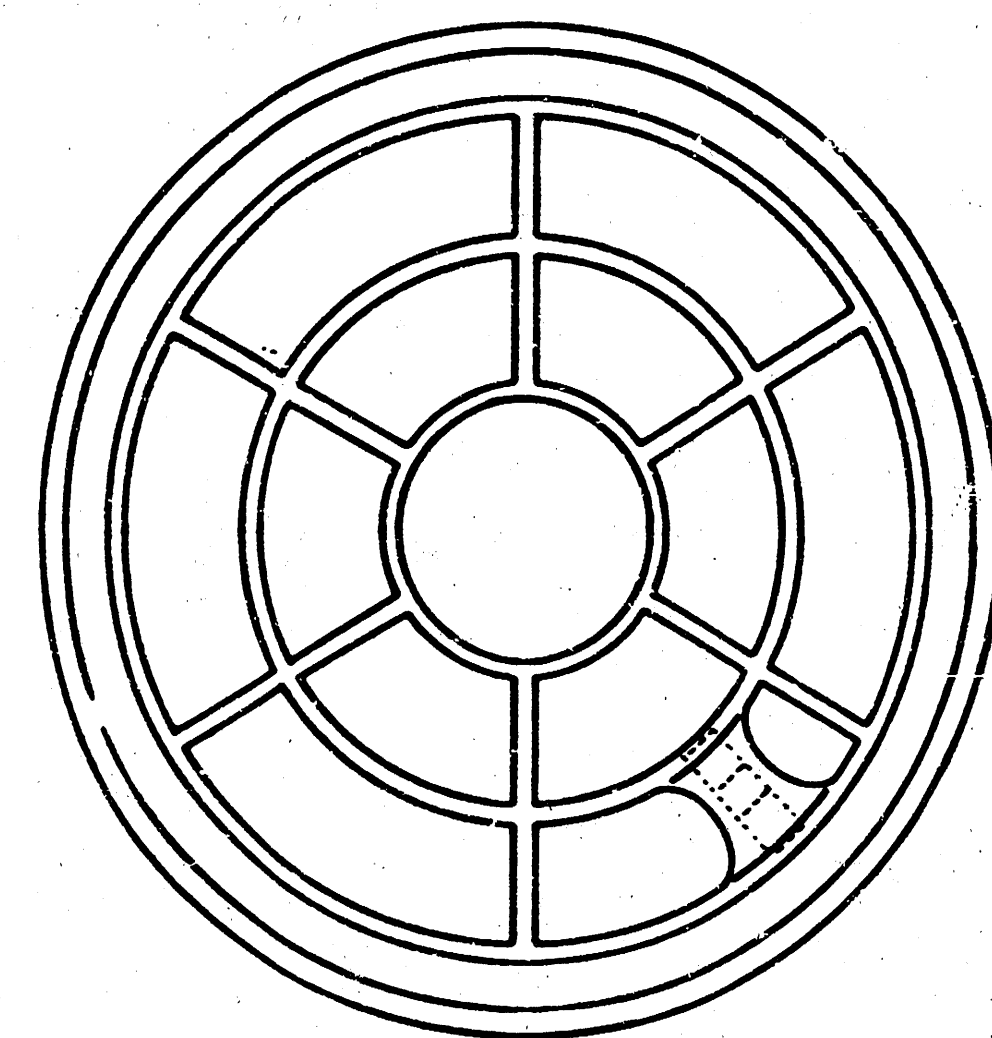
City of Wichita, Kansas

MANHOLE COVER

Weight: 180 Lbs.

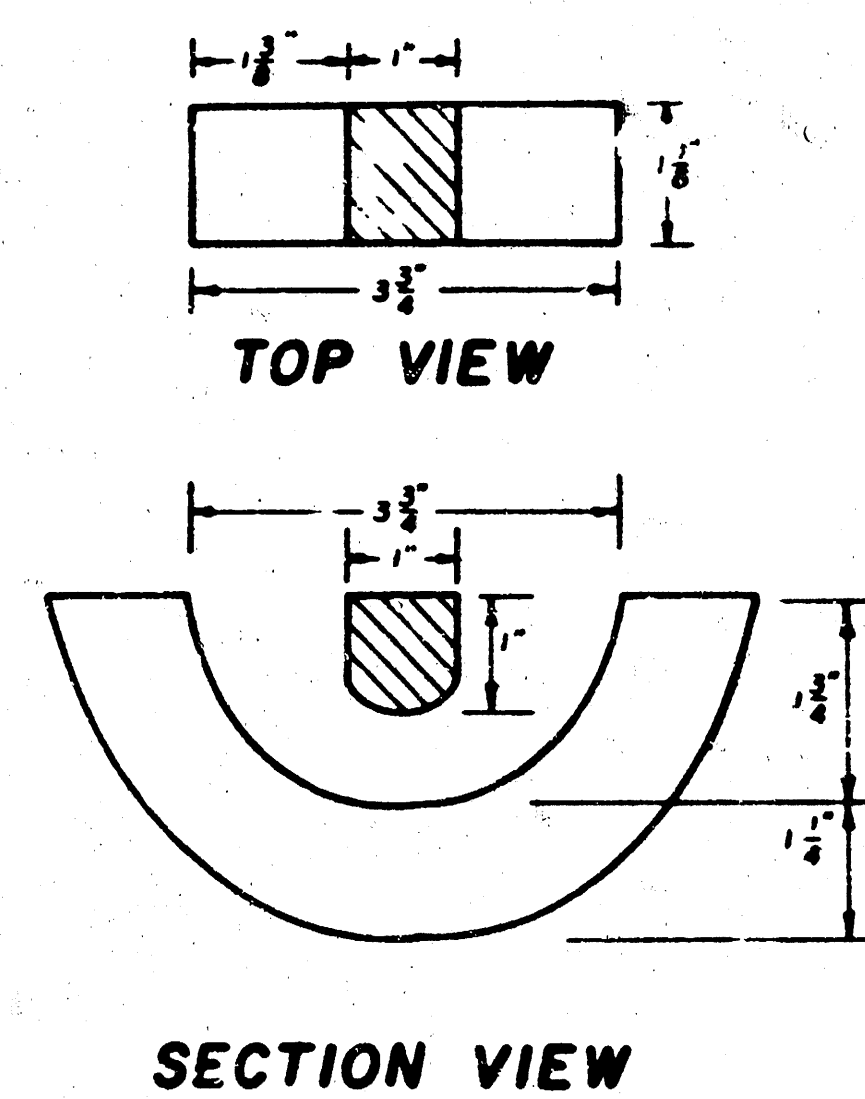


TOP VIEW



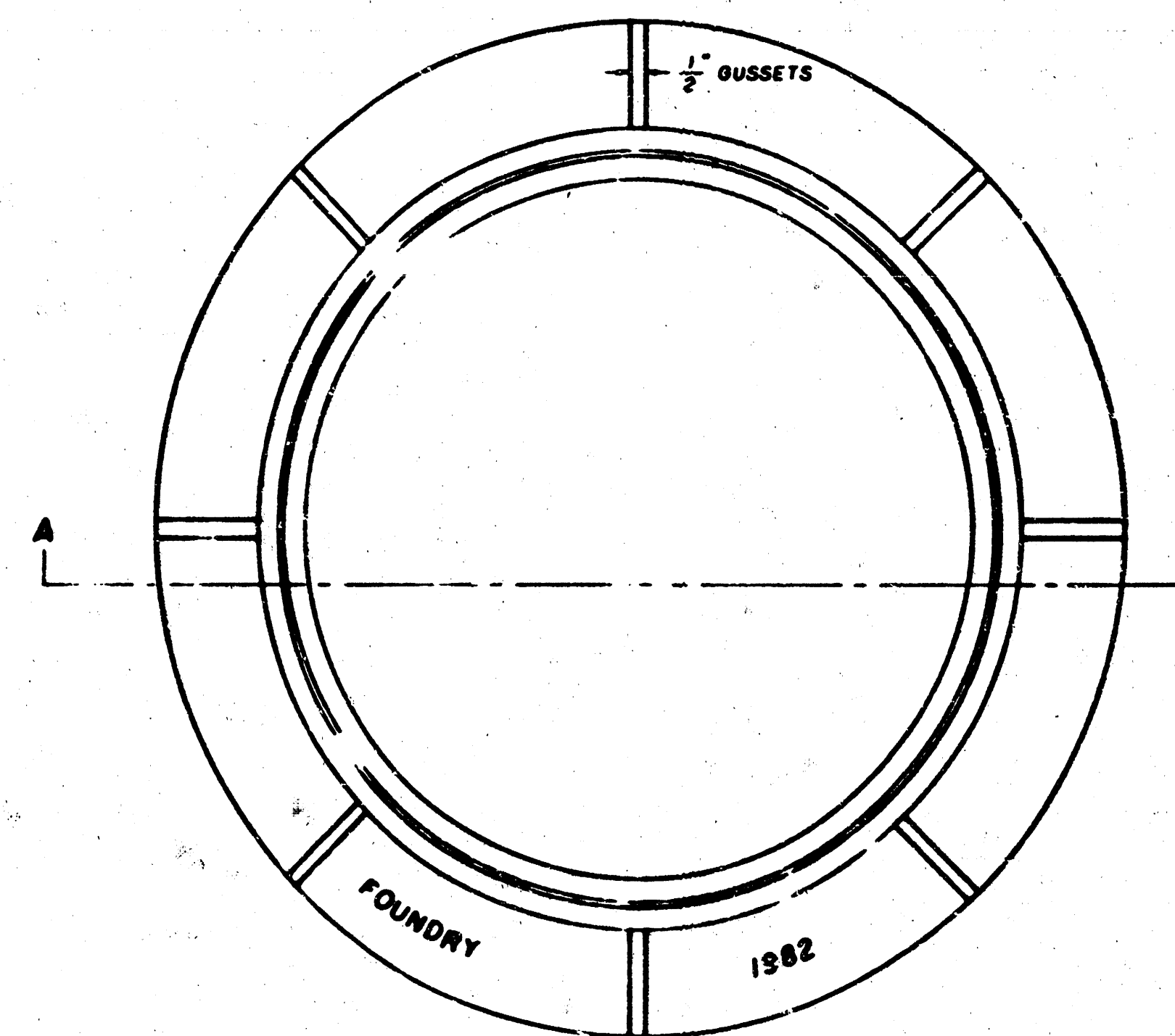
BOTTOM VIEW

PICKHOLE DETAIL

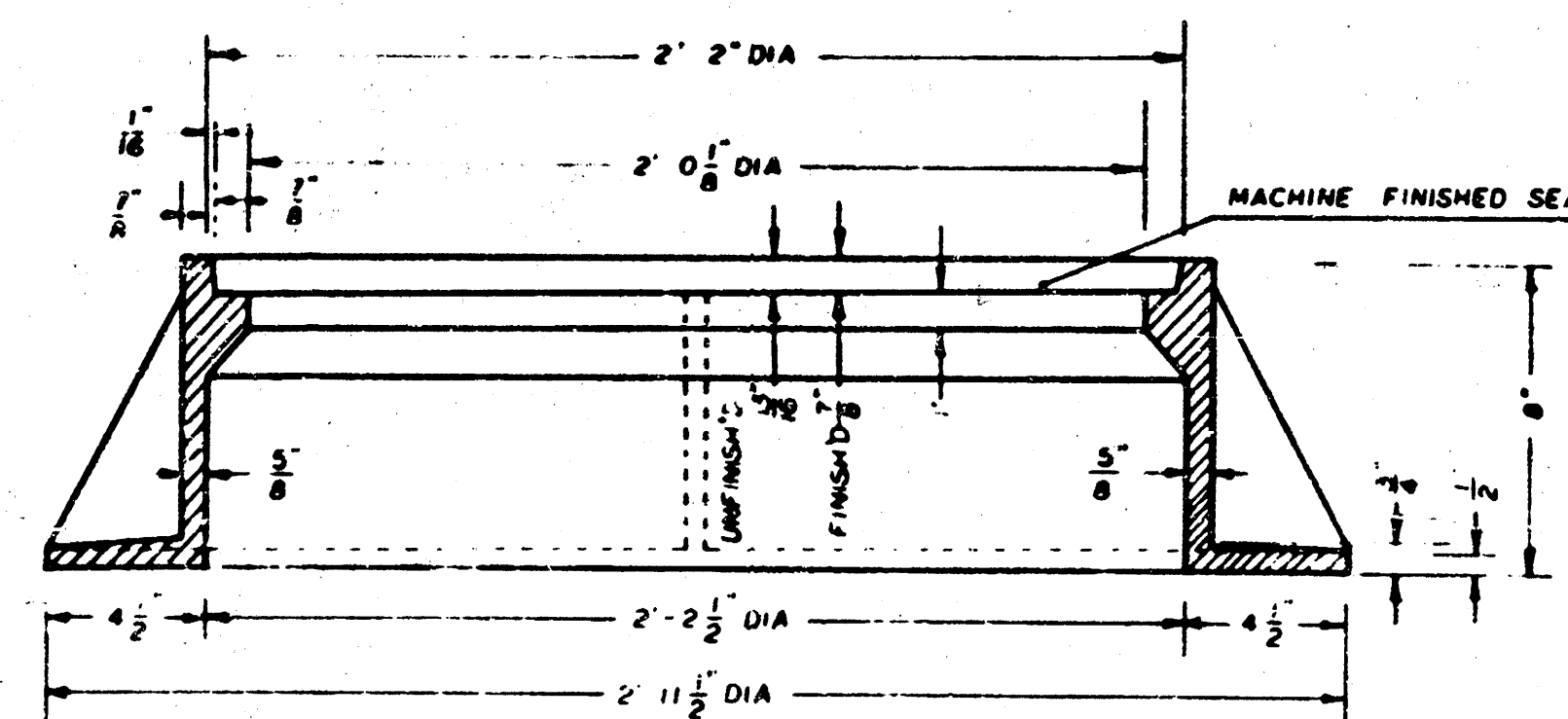


MANHOLE FRAME

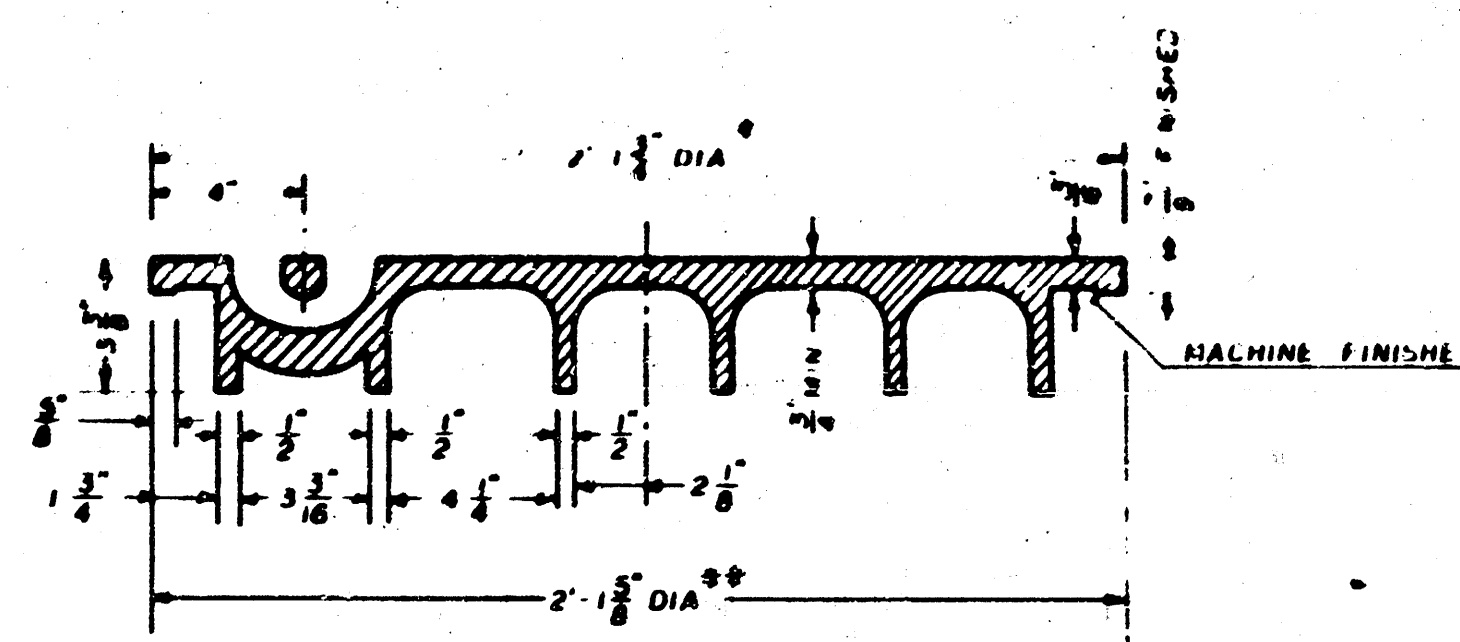
Weight: 240 Lbs.



TOP VIEW



SECTION A-A

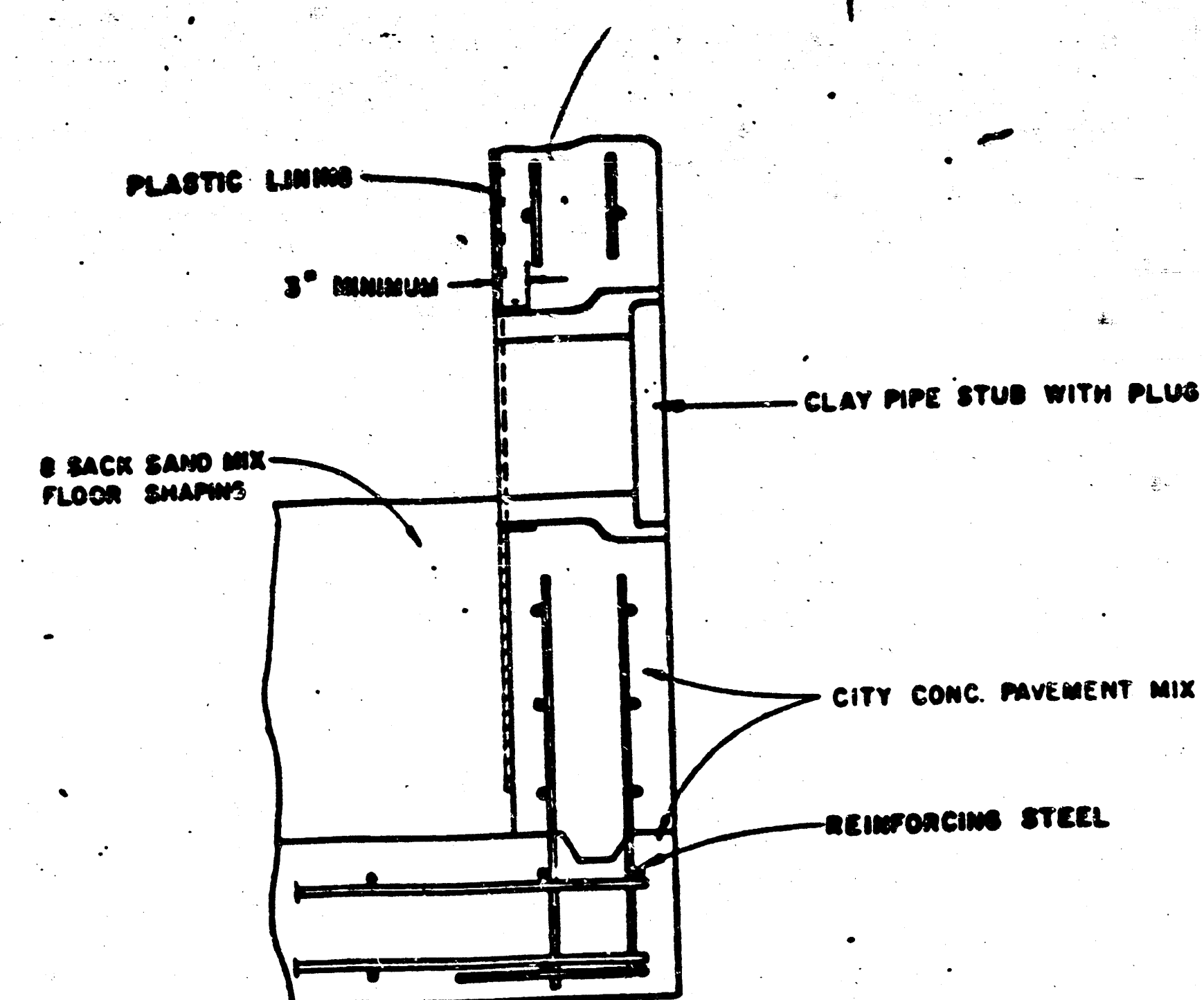
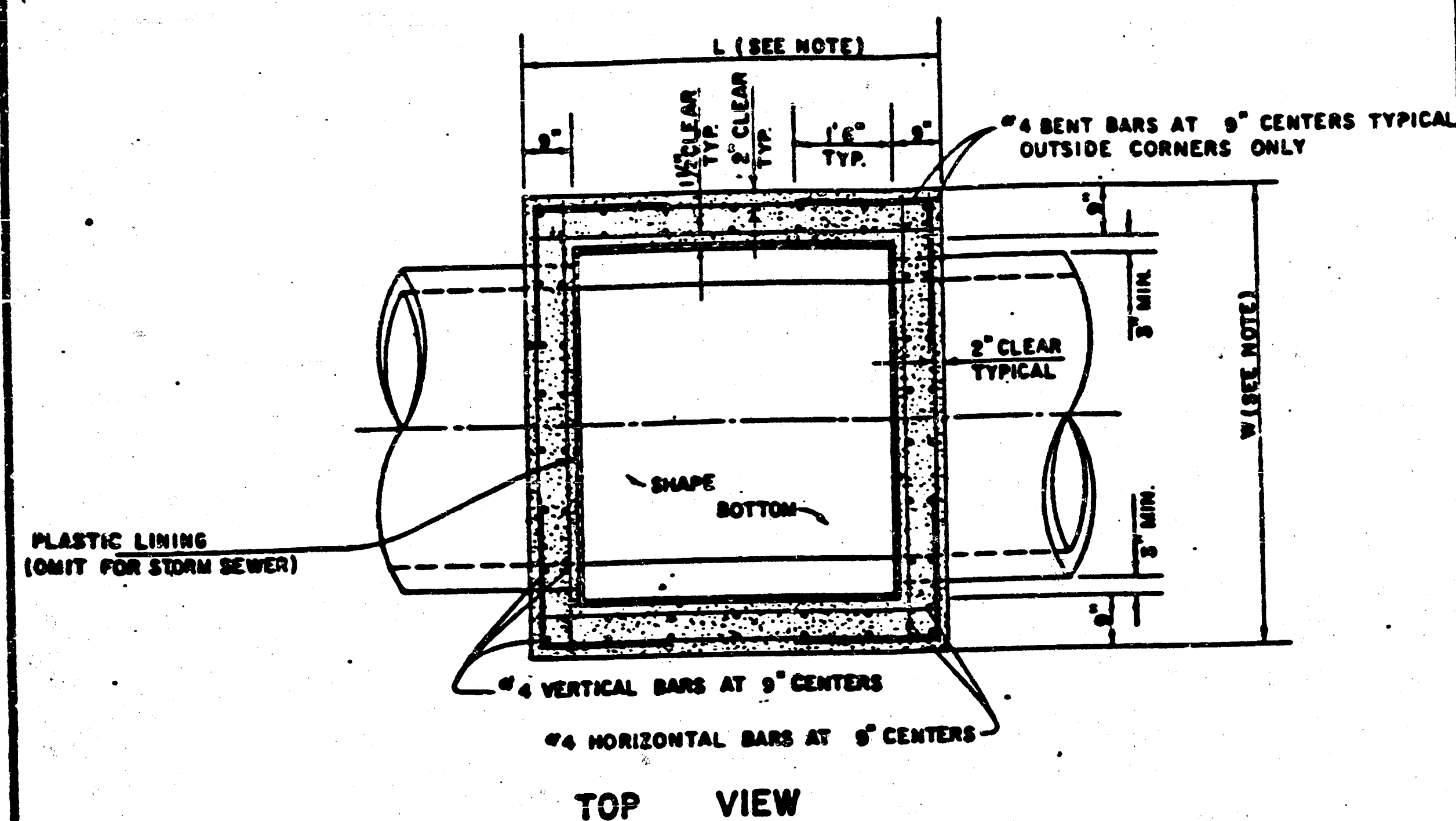


SECTION VIEW

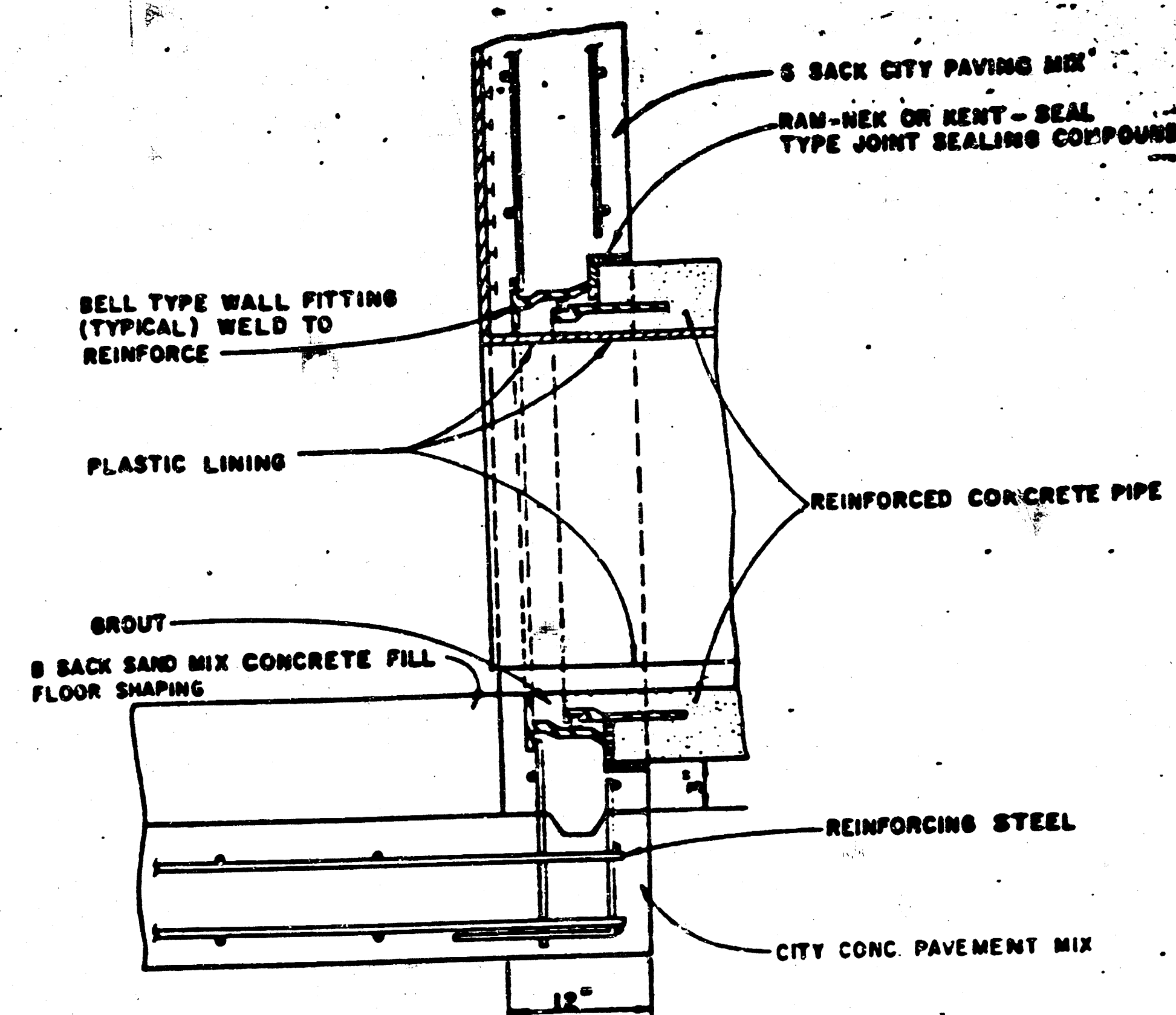
* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

GENERAL NOTES

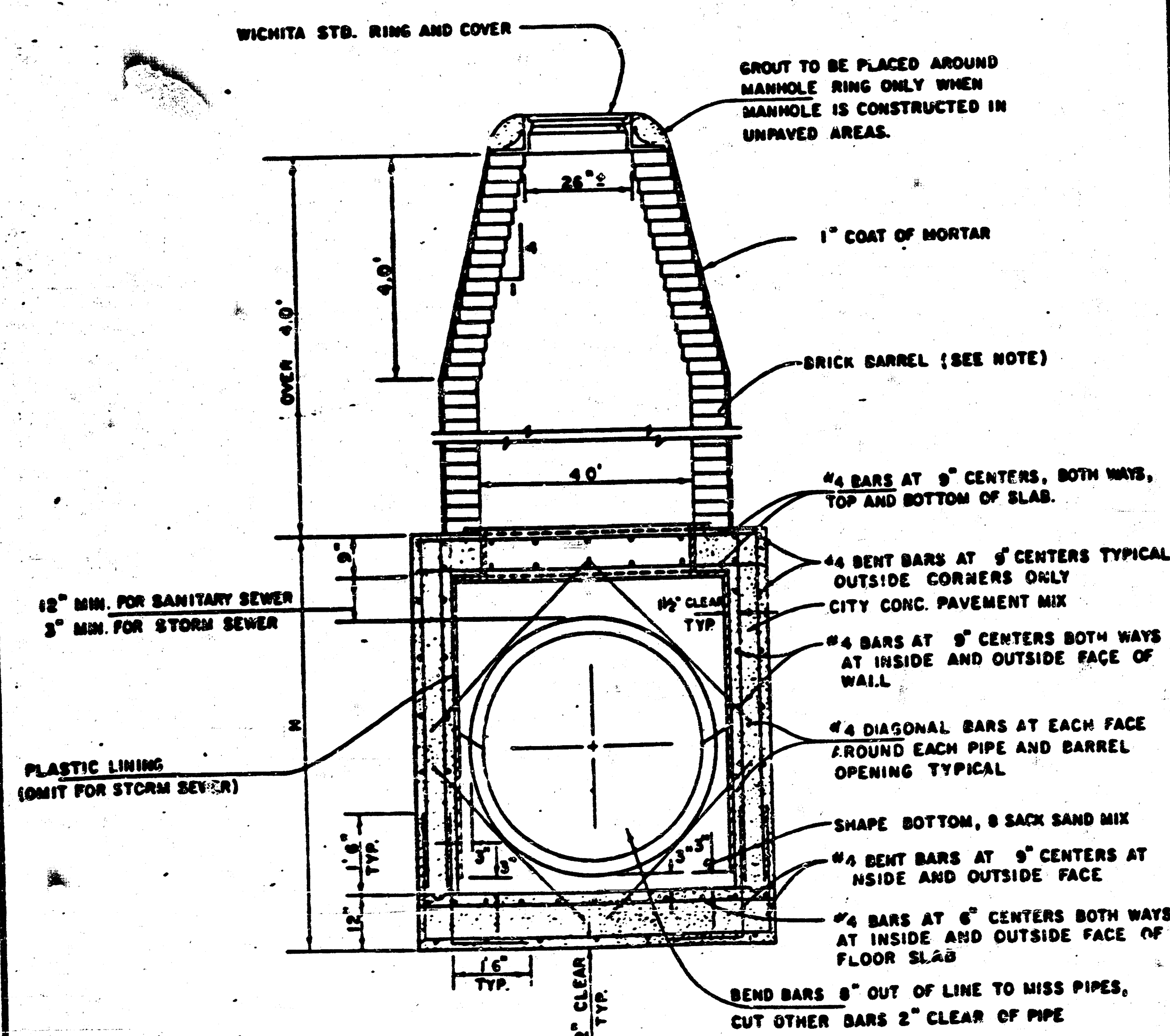
1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAIL DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUTS SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.



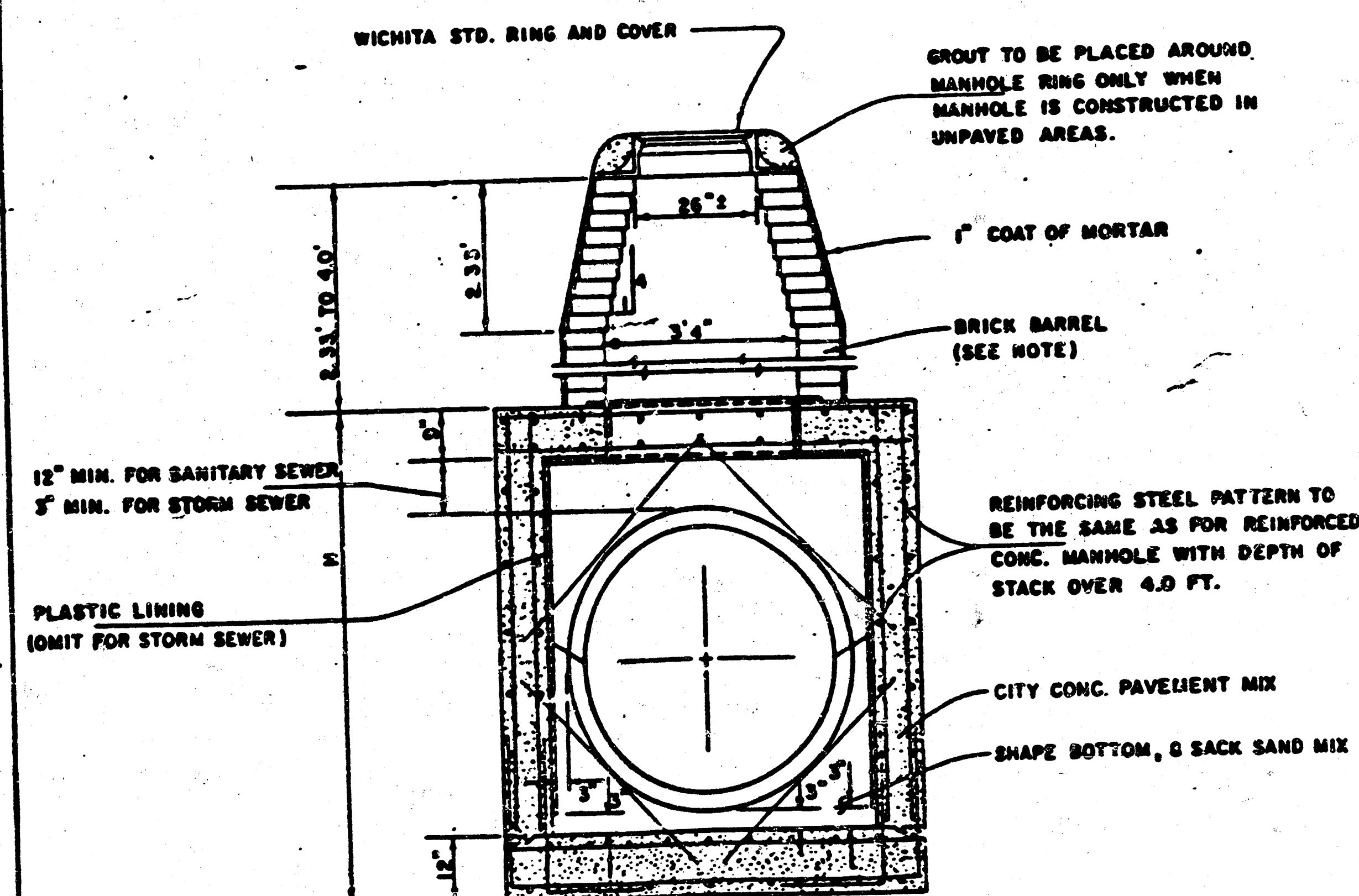
V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY

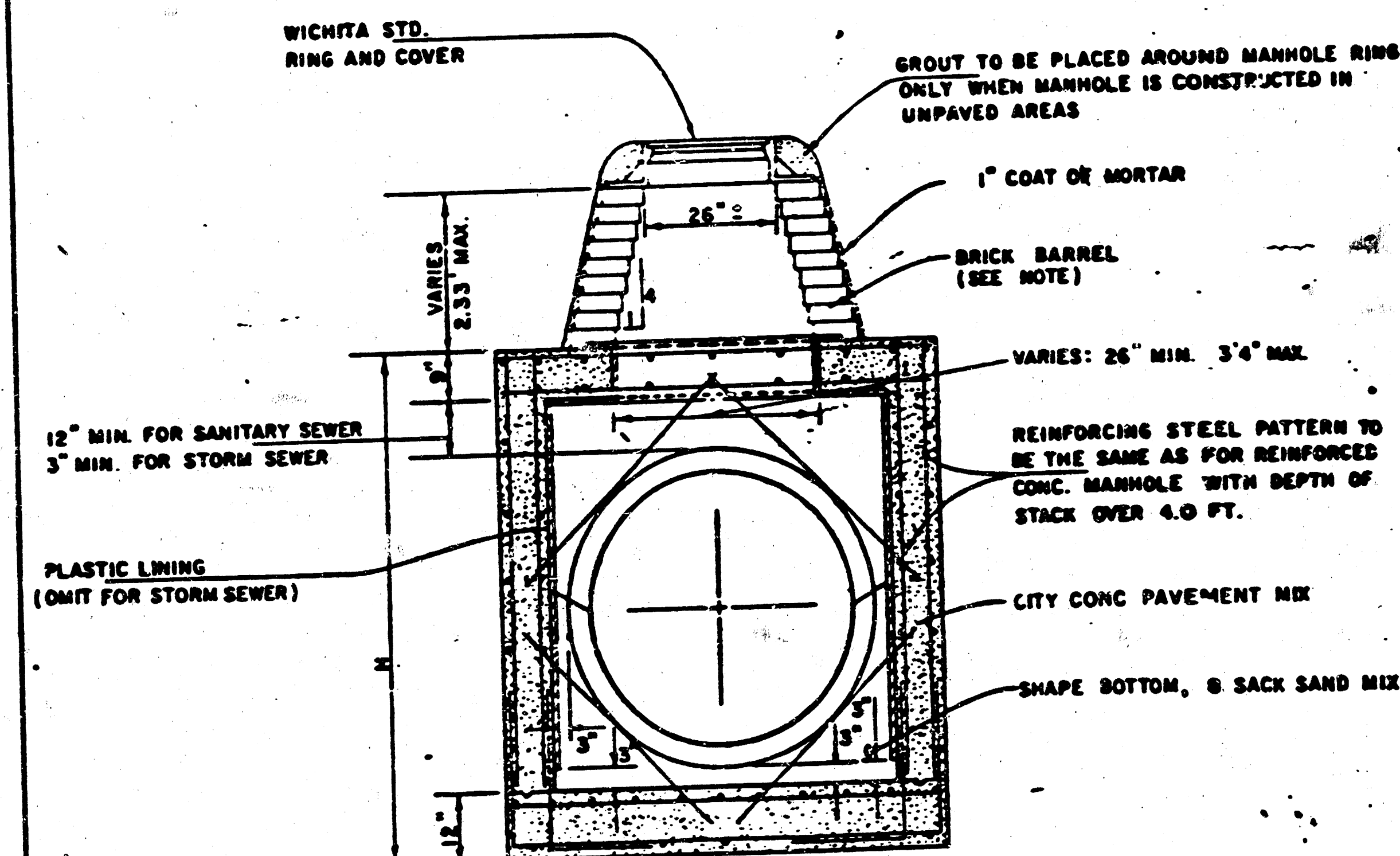


REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS.



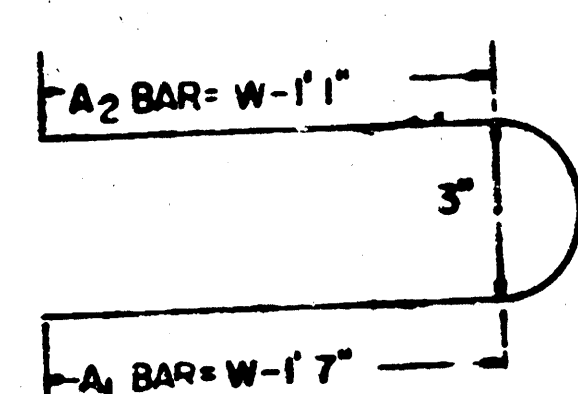
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES

CITY OF WICHITA

FEBRUARY 1984

8 OF 11

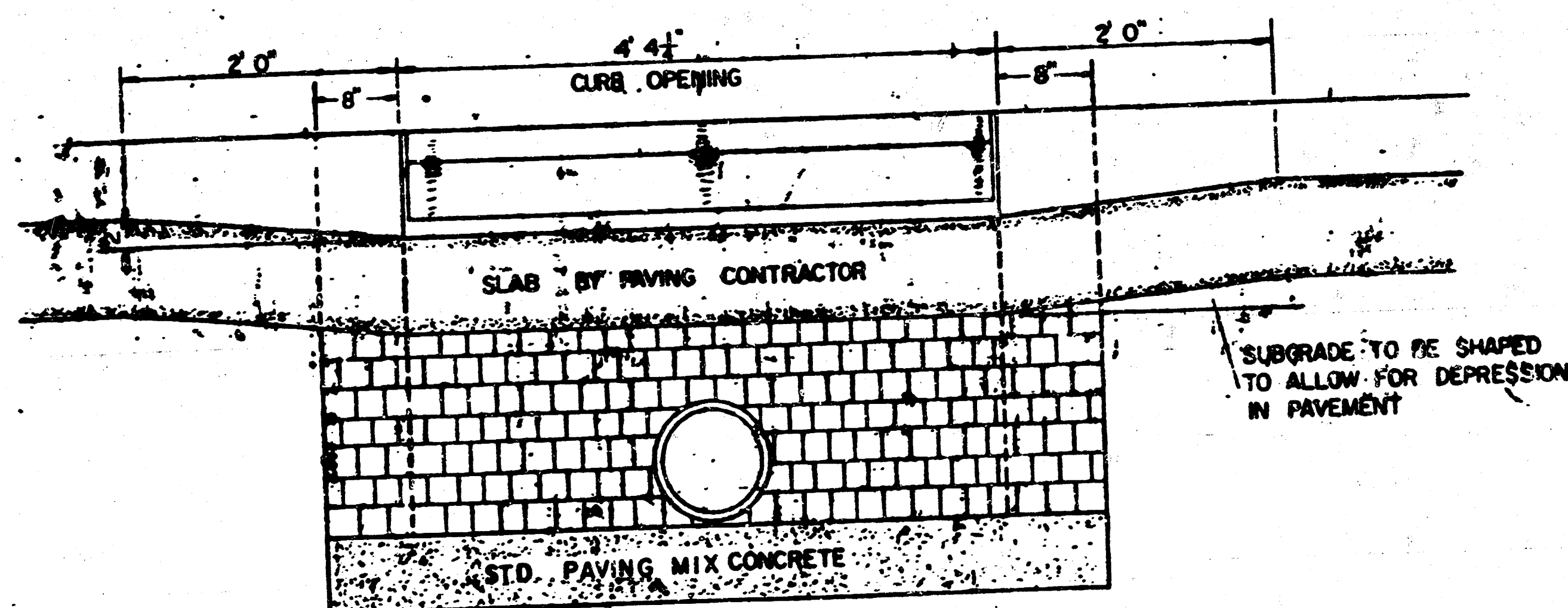


PLAN
SCALE 1"=10'

REINF STEEL TO BE PLACED ON 6" CTR'S

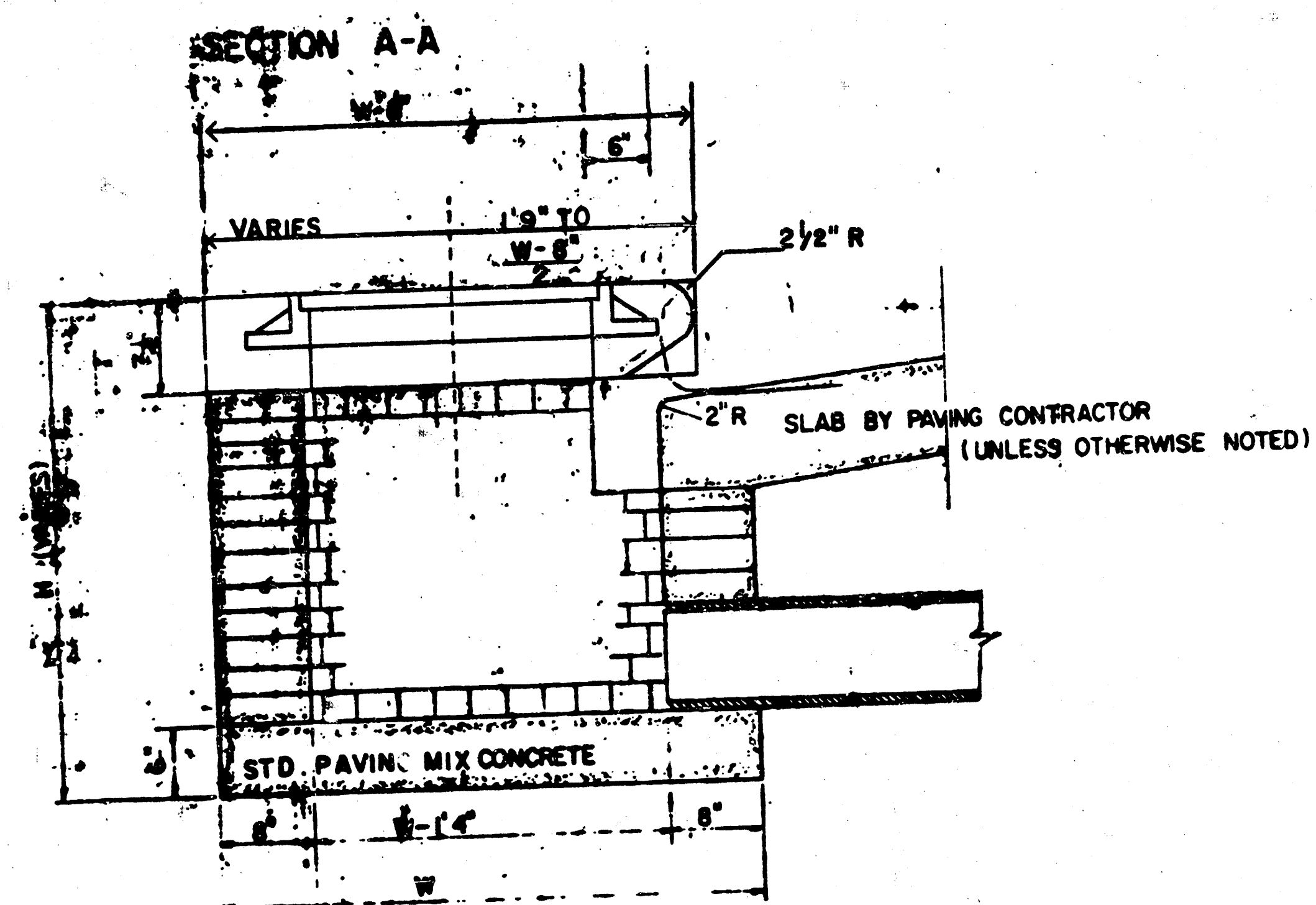
		b.									Wt.
BAR		a ₁	a ₂	a ₃	W=50 W=40 W=50		b ₂	b ₃	b ₄	Lbs.	
SIZE		"4	"4	"4	"4	"4	"4	"4	"6		
NUMBER		4	4	2	3	5	6	1	1		
LENGTH	W=4'2"	5'5"	6'5"	5'7"	5'5"	-	-	1'7"	5'6"	4'0"	6'0"
	W=5'0"	7'1"	8'1"	4'7"	5'5"	-	-	1'7"	5'6"	4'0"	7'7"
	W=6'0"	9'1"	10'1"	5'7"	-	-	5'5"	1'7"	5'6"	4'0"	9'7"

* NOTE: A₃ BARS TO BE PLACED APPROXIMATELY 2" BELOW TOP OF INLET COVER



SECTION C-C
SCALE: 1"=10'

BRICK FOR INLET CONSTRUCTION SHALL
CONFORM WITH THE LATEST REVISION OF
THE AMERICAN SOCIETY FOR TESTING AND
MATERIALS DESIGNATION C32 FOR MANHOLE
BRICK GRADE MS.

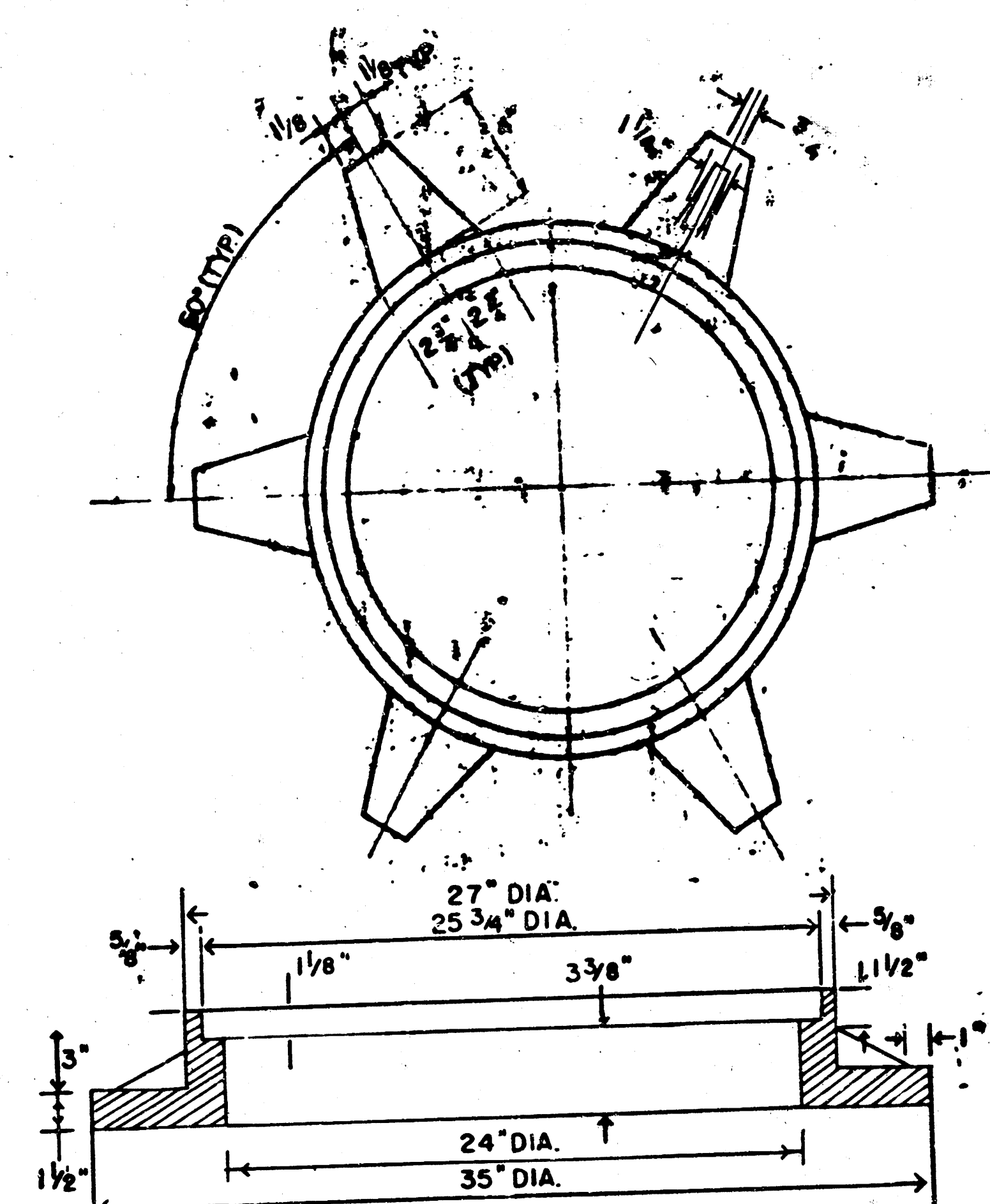
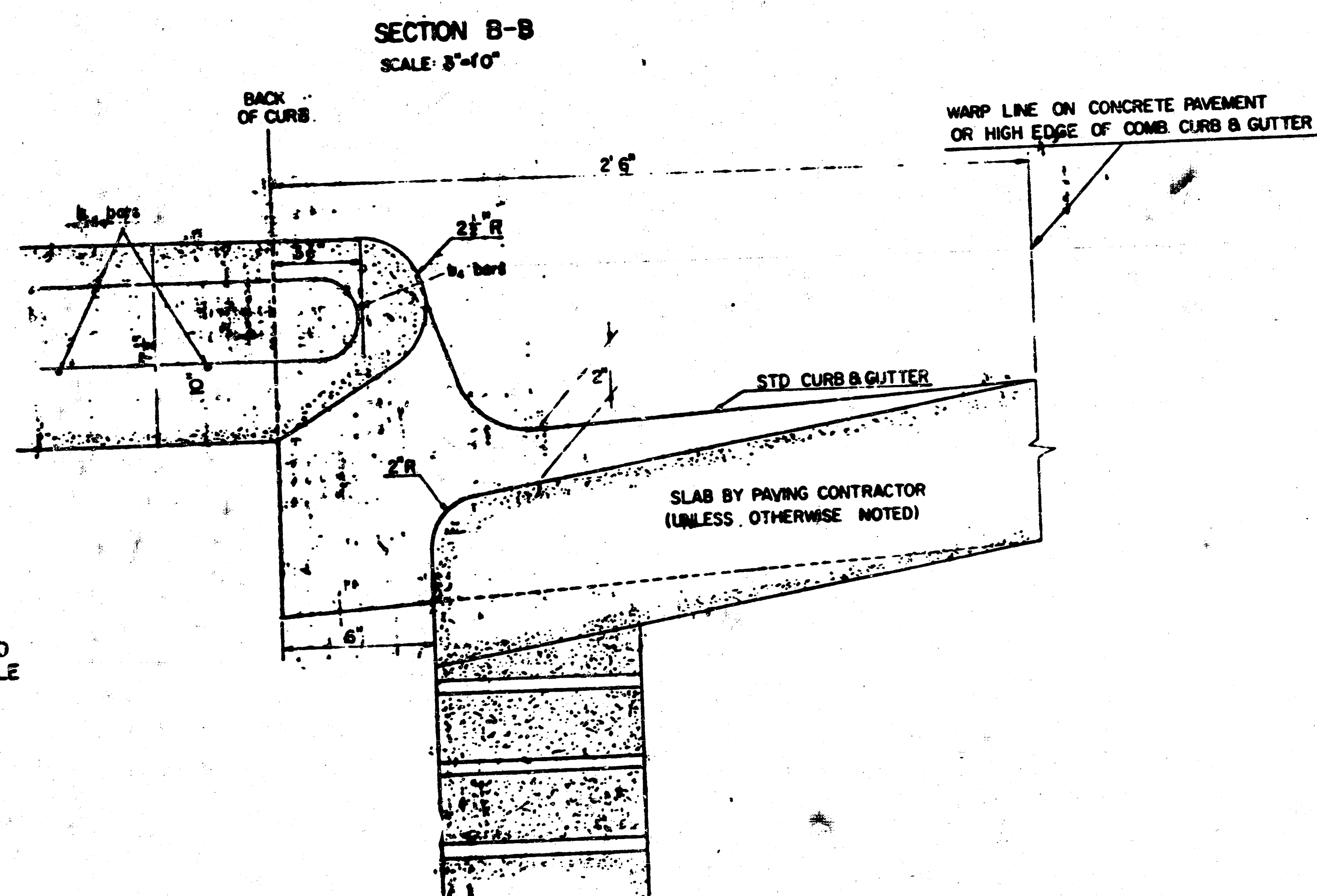


SECTION A-A
SCALE: 1" = 1' 0"

STD CURB INLET CONCRETE TOP			
W	SIZE	PIPE SIZE	CU YD CONC
4' 2"	36" X 58" X 7'	24" & SMALLER	0.46 ^{cu}
5' 0"	44" X 58" X 7'	30" & 36"	0.57 ^{cu}
6' 0"	54" X 58" X 7'	42" & 48"	0.71 ^{cu}

*GROSS VOLUME

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 STD. PAVING MIX.



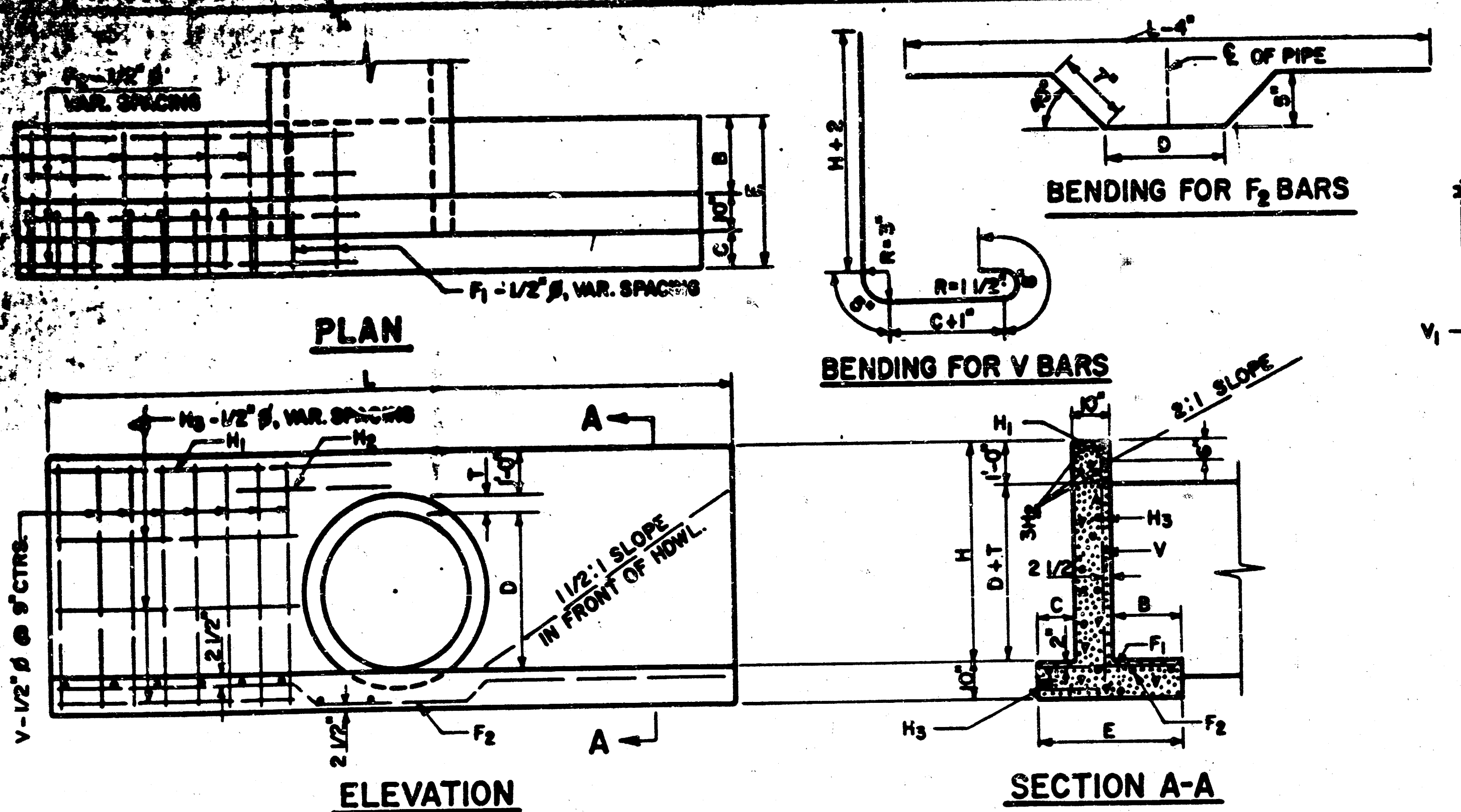
MAHOLE RING

SEE SEWER APPURTENANCES DETAIL
SHEET FOR MANHOLE COVER

THIS TYPE INLET TO BE USED WHEN PAVEMENT IS ASPHALT PAVEMENT WITH CONCRETE BASE AND/OR WHEN PAVEMENTS HAVE FULL HEIGHT STANDARD CURBS.

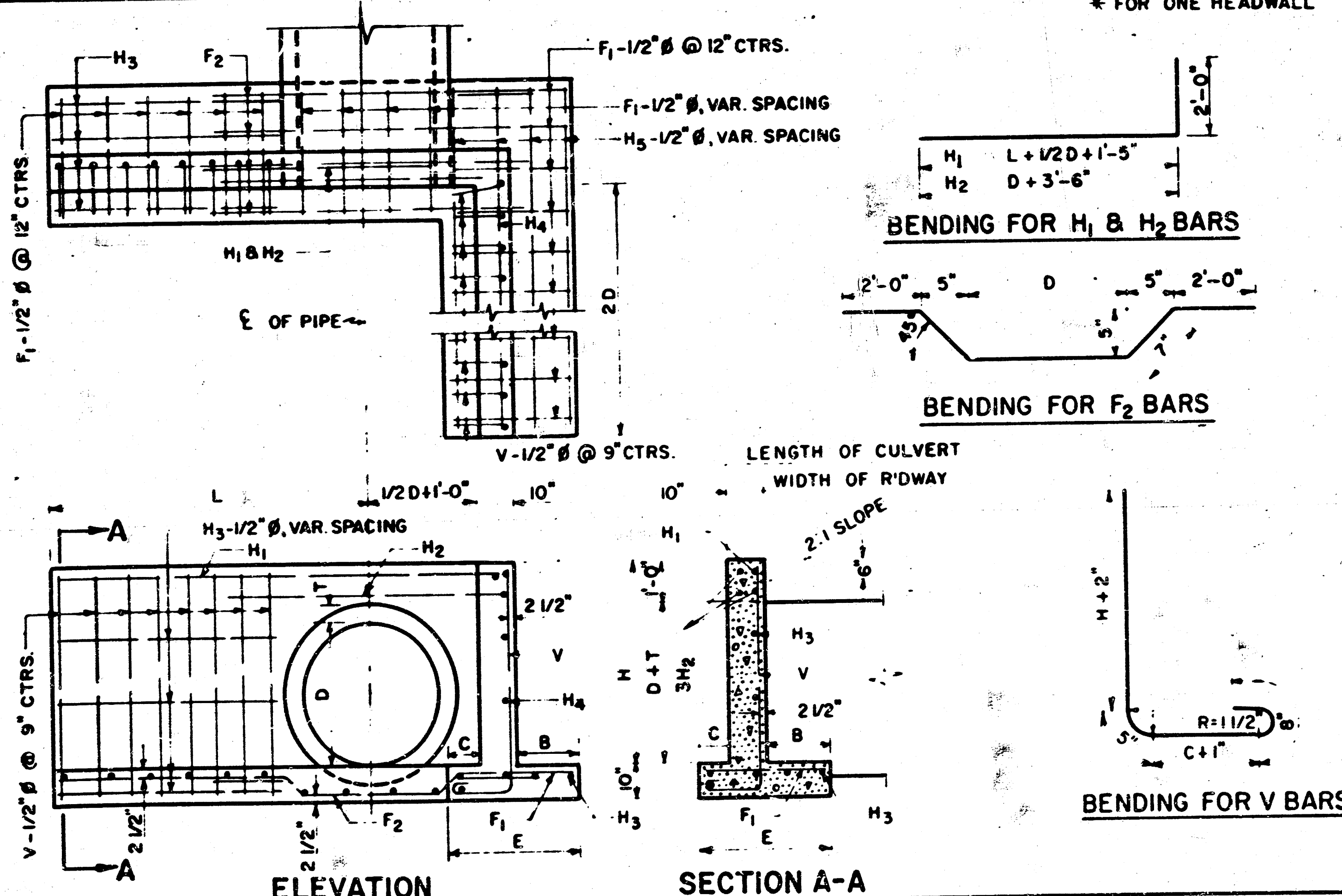
DETAIL
STANDARD CURB INLET-TYPE I
CITY OF WICHITA, KANSAS

FEBRUARY, 1975



DIMENSIONS & QUANTITIES FOR STRAIGHT HEADWALLS																	
DIMENSIONS								REINFORCING STEEL								QUANTITIES *	
D	AREA SQ.FT.	T	H	L	E	B	C	F ₁ -1/2" Ø	F ₂ -1/2" Ø	H ₁ -1/2" Ø	H ₂ -1/2" Ø	H ₃ -1/2" Ø	V-1/2" Ø	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.		
								NO.	LGTH.	NO.	LGTH.	NO.	LGTH.			NO.	LGTH.
15"	1.23	2 1/4"	2'-5 1/4"	6'-0"	2'-2"	10"	6"	6	1'-10"	3	6'-0"	1	5'-8"	3	4'-3"	0.78	56
18"	1.77	2 1/2"	2'-8 1/2"	7'-0"	2'-3"	11"	8"	8	1'-11"	3	7'-0"	1	6'-8"	3	4'-6"	0.98	70
24"	3.14	3"	3'-3"	9'-0"	2'-7"	1'-3"	6"	11	2'-3"	3	9'-0"	1	8'-8"	3	5'-1"	1.46	95
30"	4.91	3 1/2"	3'-9 1/2"	11'-0"	2'-10"	1'-4"	8"	11	2'-6"	3	11'-0"	1	10'-8"	3	5'-9"	2.00	122
36"	7.07	4"	4'-4"	14'-0"	3'-1"	1'-7"	8"	16	2'-9"	4	14'-0"	1	13'-8"	3	6'-4"	2.85	170
42"	9.62	4 1/2"	4'-10 1/2"	16'-0"	3'-4"	1'-8"	10"	16	3'-0"	4	16'-0"	1	15'-8"	3	7'-0"	3.58	198

* FOR ONE HEADWALL



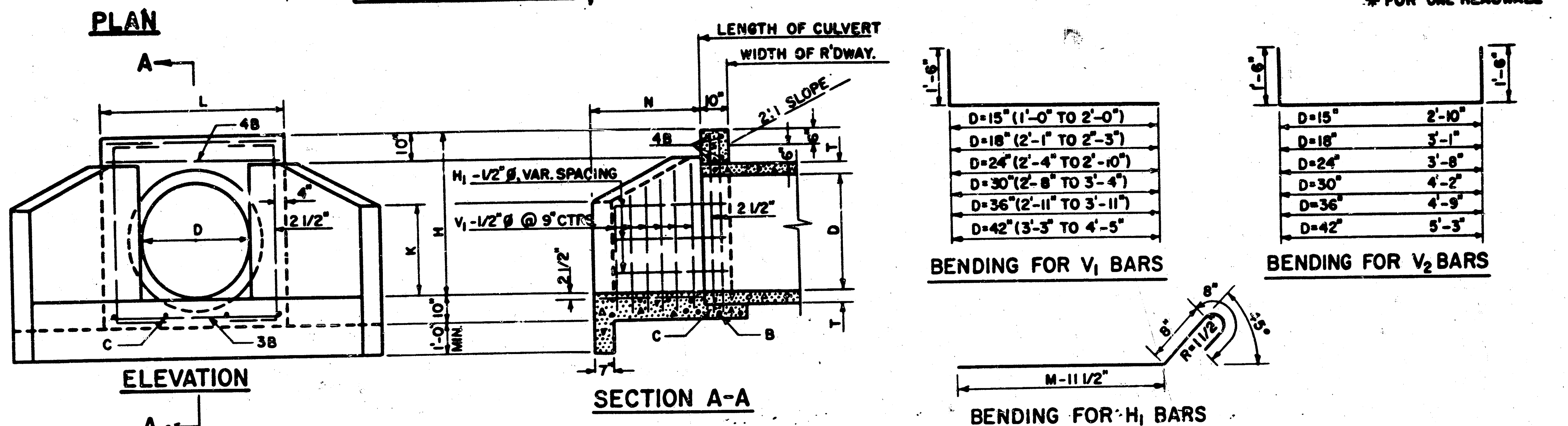
DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 90° WINGS																									
DIMENSIONS								REINFORCING STEEL						QUANTITIES *											
D	AREA SQ.FT.	T	H	L	E	B	C	F ₁ -1/2" Ø NO.	L ₁ LGTH NO.	F ₂ -1/2" Ø NO.	L ₂ LGTH NO.	H ₁ -1/2" Ø NO.	L ₃ LGTH NO.	H ₂ -1/2" Ø NO.	L ₄ LGTH NO.	H ₃ -1/2" Ø NO.	L ₅ LGTH NO.	V-1/2" Ø NO.	L ₆ LGTH NO.	CLASS "A" REINF. CONC. C.Y.	STEEL LBS.				
15'	1.23	2 1/4"	2-5 1/4"	3'-0"	2'-2"	10"	3"	10	1'-10"	3	6'-5"	1	7'-0"	3	6'-9"	5	2'-0"	2	3'-0"	4	3'-0"	7	4'-3"	1.09	84
18'	1.77	2 1/2"	2-8 1/2"	3'-6"	2'-3"	11"	6"	10	1'-11"	3	6'-8"	1	7'-8"	3	7'-0"	5	2'-0"	2	3'-6"	4	4'-5"	9	4'-6"	1.32	97
24'	3.14	3"	3'-3"	4'-6"	2'-7"	1'-3"	6"	14	2'-3"	3	7'-2"	1	8'-11"	3	7'-6"	6	3'-1"	3	4'-6"	4	5'-9"	11	5'-1"	1.94	131
30'	4.91	3 1/2"	3'-9 1/2"	5'-6"	2'-10"	1'-4"	6"	16	2'-6"	3	7'-8"	1	10'-2"	3	8'-0"	6	3'-9"	3	5'-6"	4	6'-10"	14	5'-9"	2.59	163
36'	7.07	4"	4'-4"	7'-0"	3'-1"	1'-7"	8"	19	2'-9"	4	8'-2"	1	11'-11"	3	8'-6"	7	5'-0"	4	6'-6"	4	8'-11"	17	6'-4"	3.47	216
42'	9.62	4 1/2"	4'-10 1/2"	8'-0"	3'-4"	1'-8"	10"	21	3'-0"	4	8'-8"	1	13'-2"	3	9'-0"	7	5'-8"	4	7'-6"	4	9'-2"	19	7'-0"	4.37	252
																							* FOR ONE HEADWALL		

* FOR ONE HEADWALL

DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 45° WINGS																
DIMENSIONS							REINFORCING STEEL								QUANTITIES*	
D	AREA SQ.FT.	T	H	K	L	M	A ₁ -1/2" Ø NO. LGTH.	A ₂ -1/2" Ø NO. LGTH.	B-1/2" Ø NO. LGTH.	C-1/2" Ø NO. LGTH.	H ₁ -1/2" Ø NO. LGTH.	V ₁ -1/2" Ø NO. LGTH.	CLASS "A" REINF. CONC. C.Y.	STEEL LBS.		
15"	1.23	2 1/4"	2'-5 1/4"	1'-5"	3'-7"	1'-9"	1'-3"	4	1'-0"	2	3'-9"AV.	7	3'-5"	0.74	57	
18"	1.77	2 1/2"	2'-8 1/2"	1'-7"	3'-10"	2'-1 1/2"	1'-6"	4	1'-2"	2	4'-3"AV.	7	3'-6"	0.91	61	
24"	3.14	3"	3'-3"	1'-10 1/2"	4'-4"	2'-0"	2'-0"	5	1'-8"	3	5'-3"AV.	7	4'-0"	1.31	83	
30"	4.91	3 1/2"	3'-9 1/2"	2'-2"	4'-10"	3'-8 1/2"	2'-8"	5	2'-2"	3	6'-3"AV.	7	4'-6"	1.77	104	
36"	7.07	4"	4'-4"	2'-8 1/2"	5'-4"	4'-3"	3'-0"	6	2'-8"	4	7'-3"AV.	7	5'-0"	2.29	130	
42"	9.62	4 1/2"	4'-10 1/2"	2'-9"	5'-10"	4'-11 1/2"	3'-6"	6	3'-2"	4	8'-3"AV.	7	5'-6"	2.89	151	

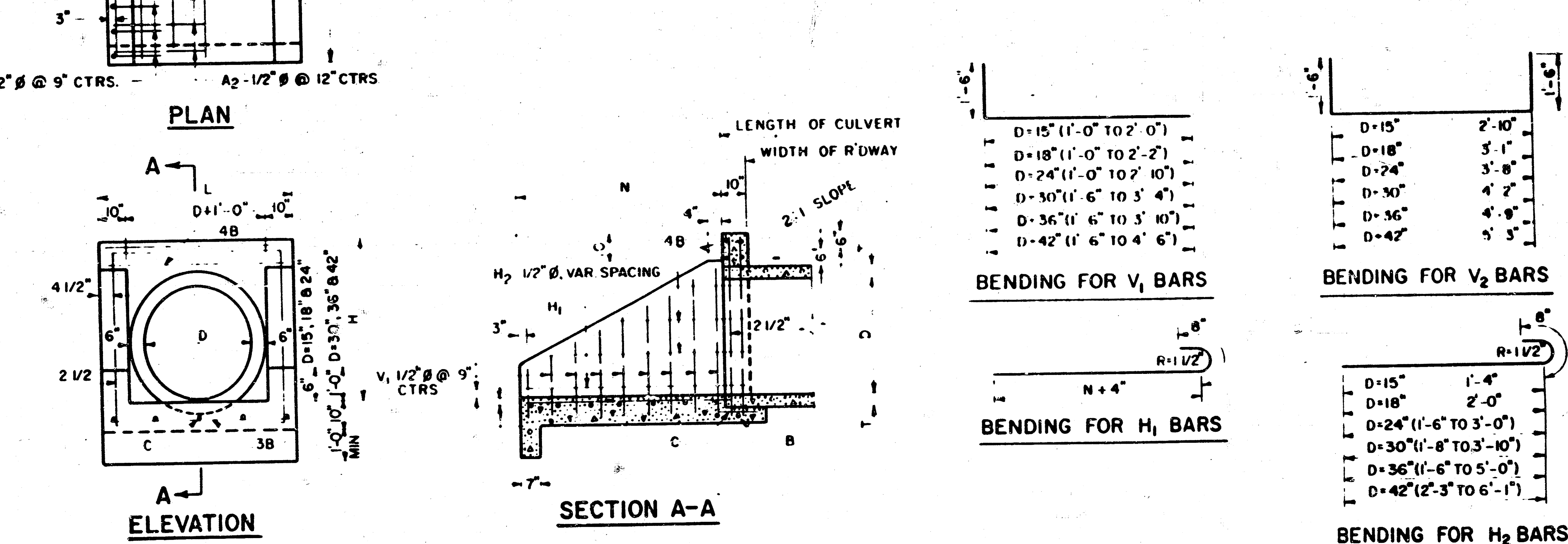
FOR ONE HEADWALL

* FOR ONE HEADWALL



* USE THIS TYPE HEADWALL																							
DIMENSIONS & QUANTITIES FOR HEADWALLS WITH U-TYPE WINGS																							
DIMENSIONS						REINFORCING STEEL								QUANTITIES *									
D	AREA SQ.FT	T	H	L	N	A ₁ -1/2" Ø NO. LGTH.	A ₂ -1/2" Ø NO. LGTH.	B-1/2" Ø NO. LGTH.	C-1/2" Ø NO. LGTH.	H ₁ -1/2" Ø NO. LGTH.	H ₂ -1/2" Ø NO. LGTH.	V ₁ -1/2" Ø NO. LGTH.	V ₂ -1/2" Ø NO. LGTH.	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.								
15"	1.23	2 1/4"	2'-5 1/4"	3'-11"	2'-6"	3	2'-2"	3	3'-7"	7	3'-7"	3	1'-6"	2	3'-6"	2	2'-0"	8	3'-0" AV.	4	5'-10"	0.95	71
18"	1.77	2 1/2"	2'-8 1/2"	4'-2"	3'-1"	3	2'-9"	4	3'-10"	7	3'-10"	3	1'-6"	2	4'-1"	2	2'-8"	8	3'-1" AV.	4	6'-1"	1.15	79
24"	3.14	3"	3'-3"	4'-8"	4'-2"	4	3'-10"	5	4'-4"	7	4'-4"	4	1'-6"	2	5'-2"	4	2x11" AV.	12	3'-5" AV.	4	6'-8"	1.60	109
30"	4.91	3 1/2"	3'-9 1/2"	5'-2"	4'-3"	4	3'-11"	5	4'-10"	7	4'-10"	4	1'-6"	2	5'-3"	4	3'-5" AV.	12	3'-11" AV.	4	7'-2"	1.91	120
36"	7.07	4"	4'-4"	5'-8"	5'-4"	5	5'-0"	6	5'-4"	7	5'-4"	5	1'-6"	2	6'-4"	6	3'-11" AV.	14	4'-2" AV.	4	7'-9"	2.48	152
42"	9.62	4 1/2"	4'-10 1/2"	6'-2"	6'-5"	5	6'-1"	7	5'-10"	7	5'-10"	5	1'-6"	2	7'-5"	6	4'-10" AV.	18	4'-6" AV.	4	8'-3"	3.12	186
* FOR ONE HEADWALL																							

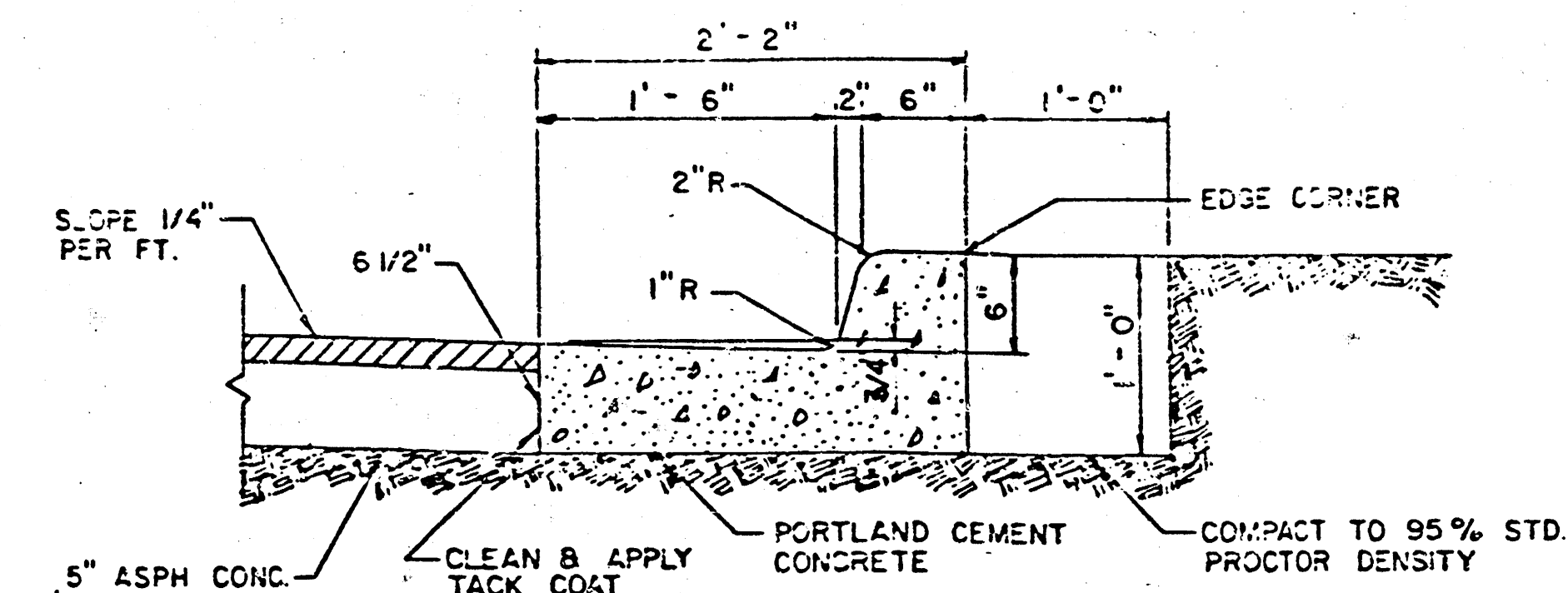
* FOR ONE HEADWALL



GENERAL NOTES

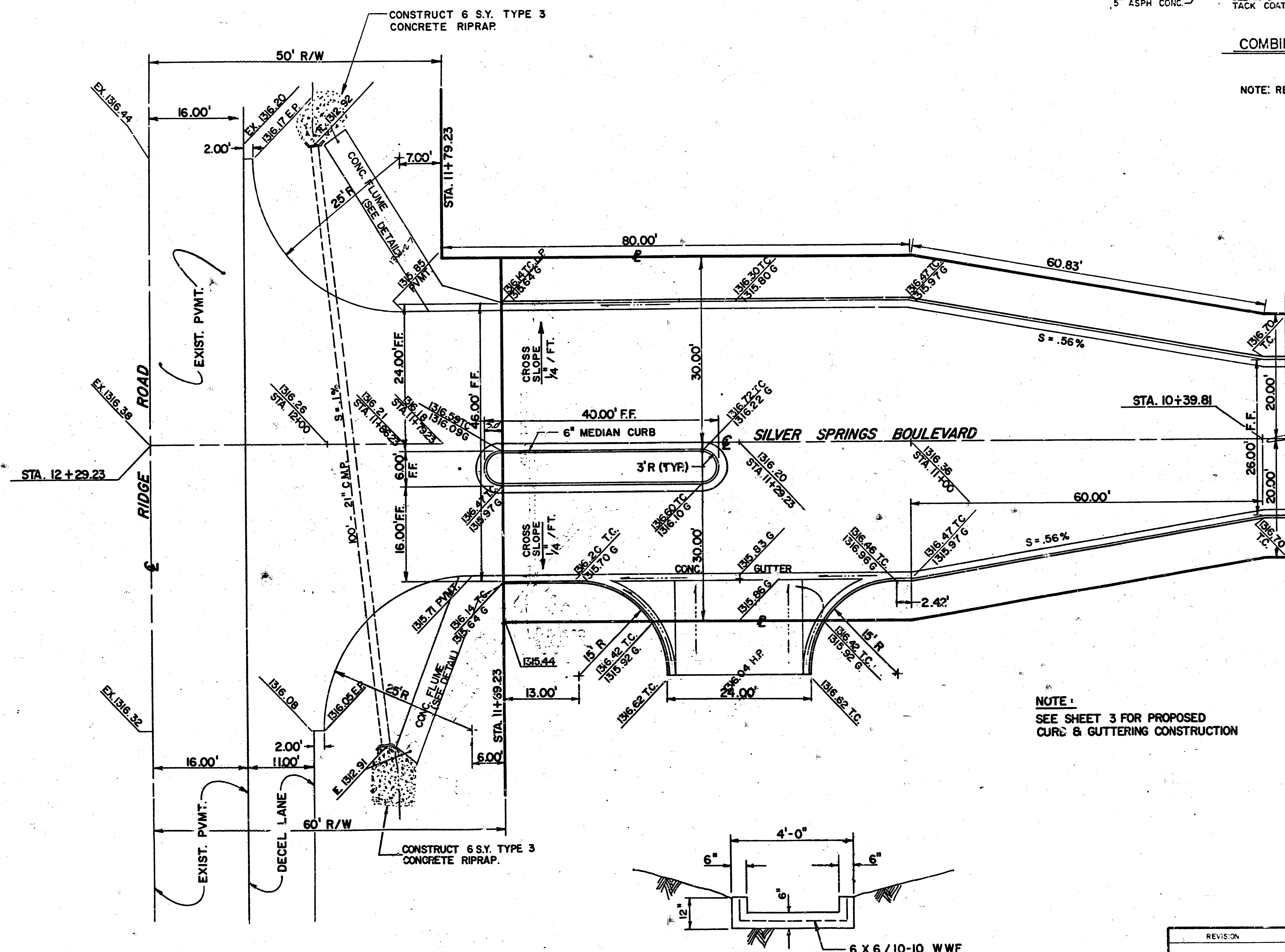
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD SPECIFICATIONS.
 ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CARBORUNDUM FINISH.
 ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
 REINFORCED CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-170 (ASTM C-76) CLASS III UNLESS OTHERWISE DESIGNATED.
 MINIMUM DEPTH OF FILL OVER CULVERTS SHALL BE 1'-0".
 WALL THICKNESS (DIMENSION "T") OF PIPES SHOWN, ARE TAKEN FROM "WALL B" COLUMN OF ASTM & AASHTO TABLES.

CITY ENGINEER	STANDARD PIPE HEADWALLS 15" TO 42"
DESIGN NO.	
SHEET 10 OF 11	

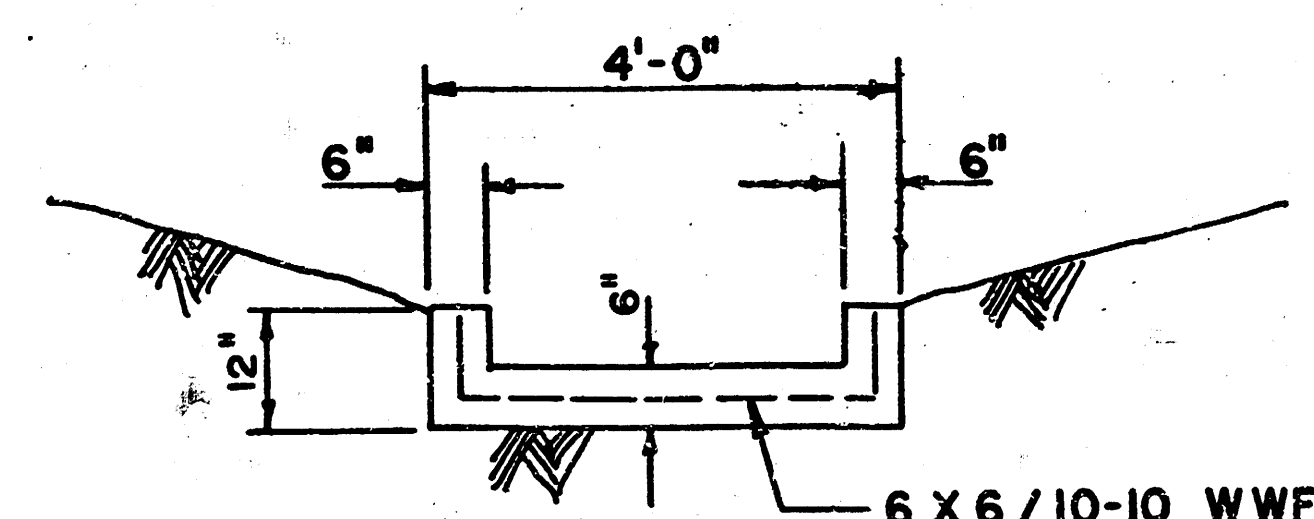


COMBINED CURB AND GUTTER
SCALE: 1"=1'

NOTE: REVERSE GUTTER SLOPE FOR MEDIAN SECTION.



NOTE:
SEE SHEET 3 FOR PROPOSED
CURB & GUTTERING CONSTRUCTION



CONCRETE FLUME DETAIL
SCALE: 1"=2'-0"

CITY OF WICHITA, KANSAS
R.L.C. YOUNG & ASSOCIATES
OF TULSA, OKLA.

REVISION	BY	DATE	PLAN SCALE	DRAWN	DESIGNED	APPROVED
			1" = 10'	C. DAVIS	E.A.P.	
			PROFILE SCALE		SILVER SPRINGS	
			HORIZONTAL		DECEL. LANE, ENTRY	
					DETAIL SHEET	
			VERTICAL		RECOMMENDED	
					ENGINEER'S SEAL	
			FILE	DRAWING	DATE	
			AT 45 HOPE			

SHEET 11 OF 11 SHEETS