

STORM SEWER PLANS FOR WOODCREST ADDITION

S.W.S. NO. 330 PROJECT NO. 468-76-245-81658-000-000-001

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
APRIL, 1987

GENERAL NOTES

- The tops of inlets as noted on the plans may vary so as to meet proposed top of curb elevations or pavement elevations. The field Engineer shall locate inlets with reference to proposed paving plans of the pertinent streets.
- 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 law.
- Construction of the outlets for Lines 1 and 2 will require lowering of the existing lake into which these lines empty or construction of a cofferdam. The plan sheets showing these outlets also show the surveyed water level and the date of the survey. Present water levels and water levels at the time of construction may vary from this surveyed water level.
- Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities within the right of way which do not conflict with proposed construction.

NOTE: Notify the following companies prior to any excavation:

Kansas Gas Company	942-8350
Bell Telephone Company	1-316-571-2115
Cablevision	262-0661
KPL Gas Service Company	263-7511
Kansas Gas & Electric	264-1141

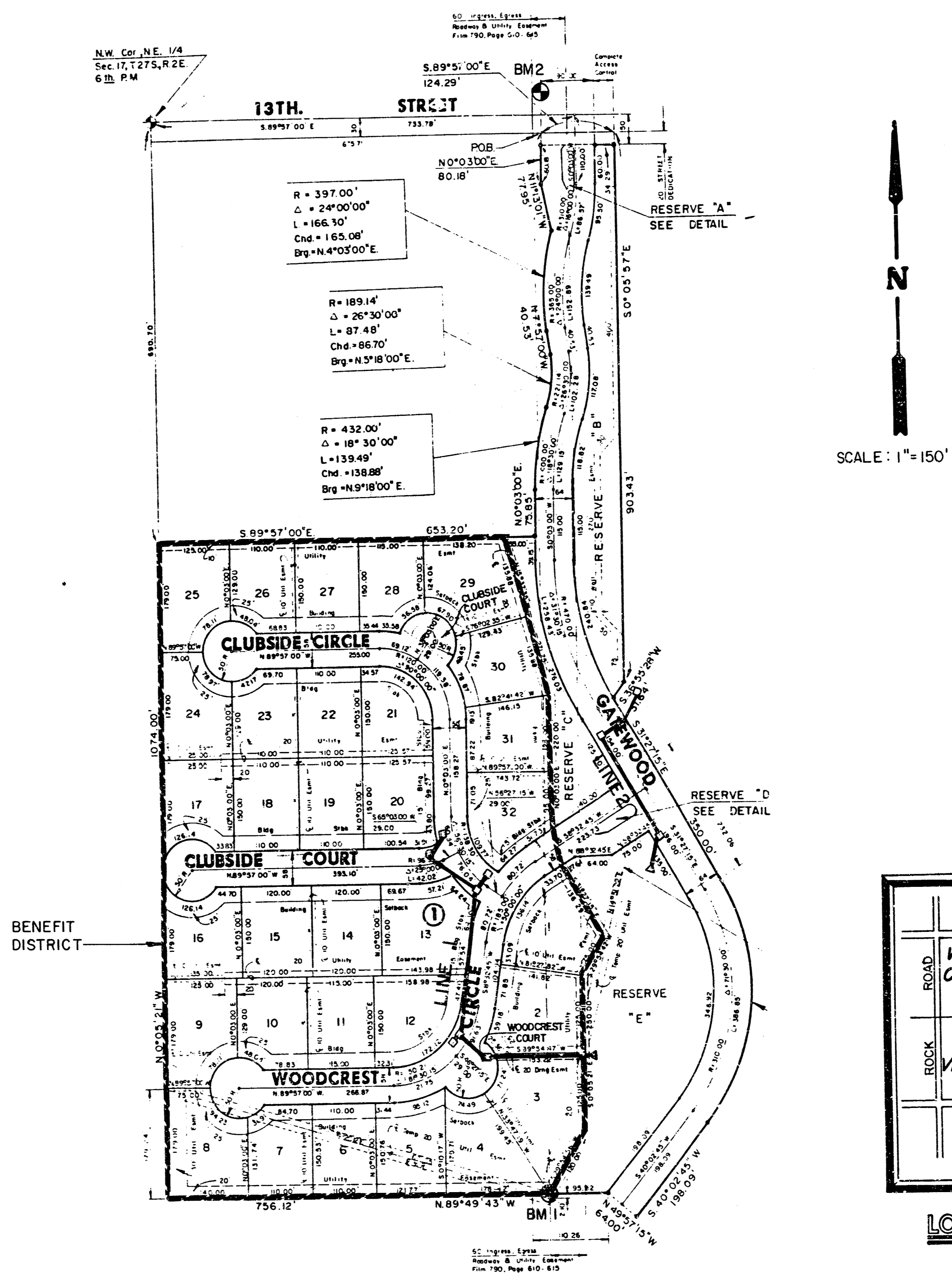
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance with state laws.

CONSTRUCTION SEQUENCE

This project cannot begin until the sanitary sewer lateral serving Woodcrest have been installed, backfilled and air tested, and the water line installed, pressure tested, chlorinated and flushed.

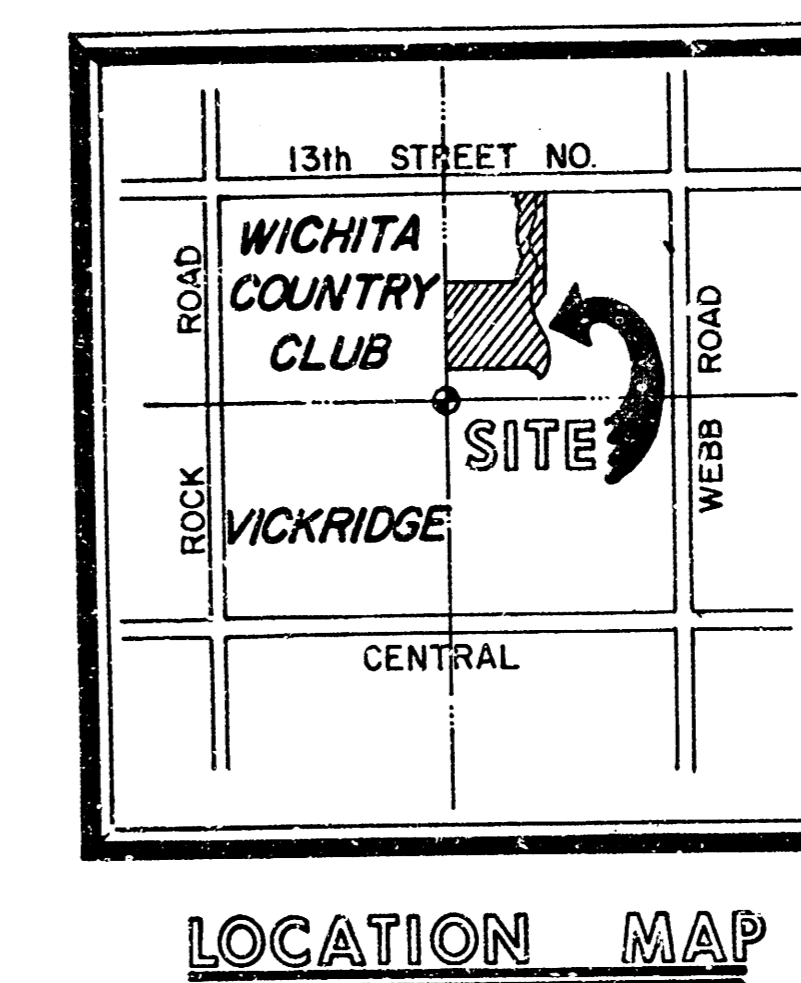
BENCH MARKS

- B.M. #1 Set Spike Step in Corner Post S.E. Corner of Lot 4, Block 1, Woodcrest Addition
Elev. = 179.74
- B.M. #2 "R" in Ritchie Stamped on Top of Curb N.W. Corner of 13th & Gatewood
Elev. = 197.325
- B.M. #3 West Parkway, 1/2 Mile East of Rock Road on 13th, City of Wichita Bench Mark Disc., 36' South and 4' West of Quarter Section Corner
Elev. = 187.591

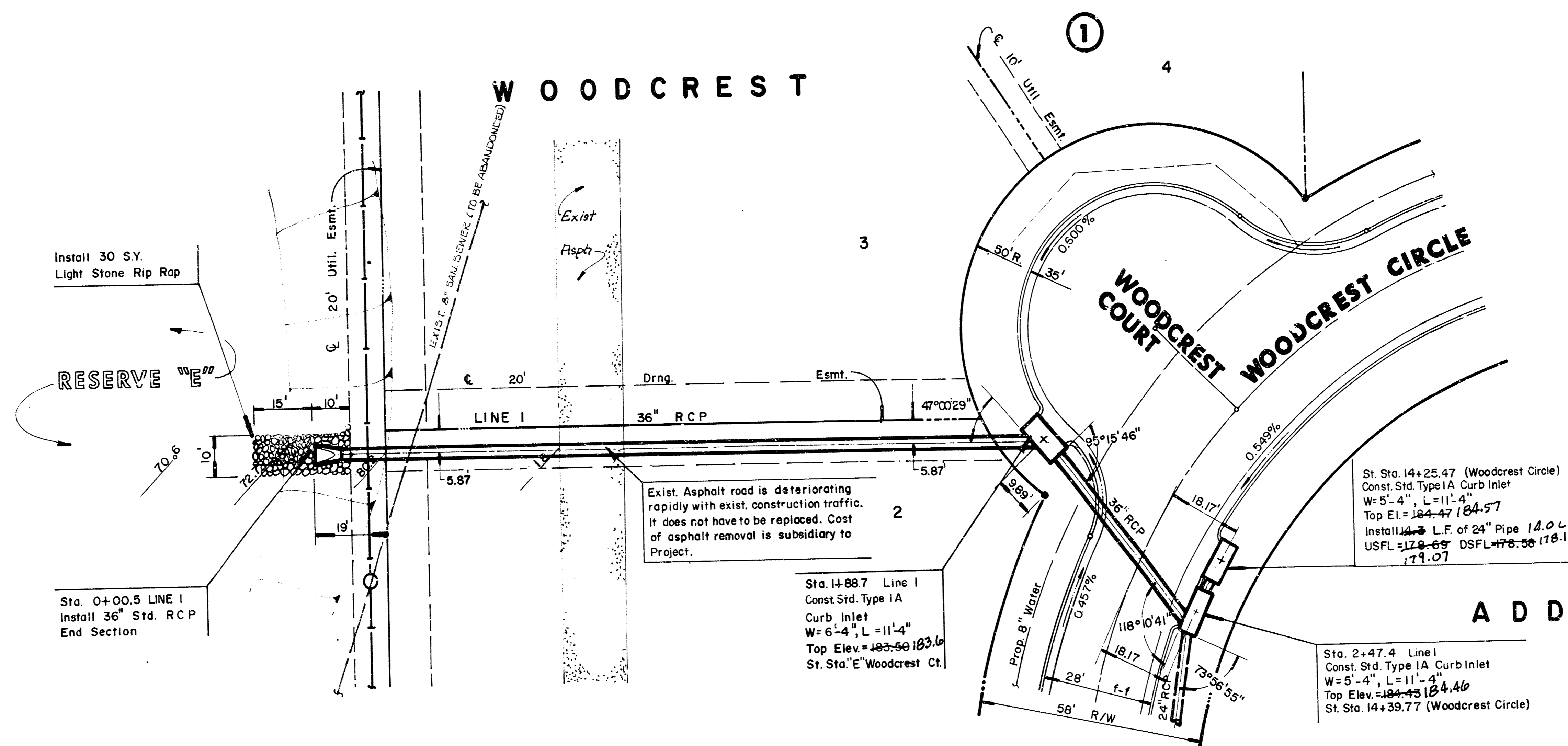
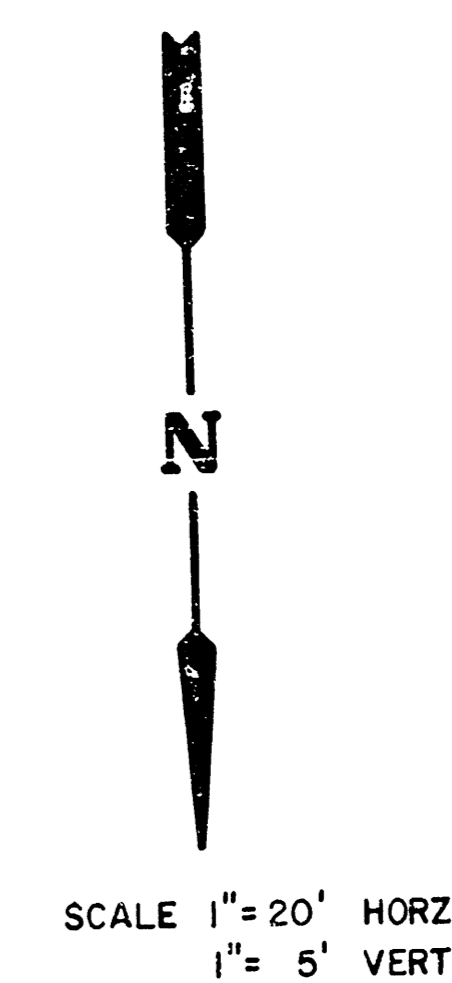


INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1
3	LINE 1 & 1A
4	LINE 2
5-6	TYPE IA CURB INLET DETAIL
7	TYPE IA DITCH INLET DETAIL
8	WOODCREST ADD. FINAL PLAT

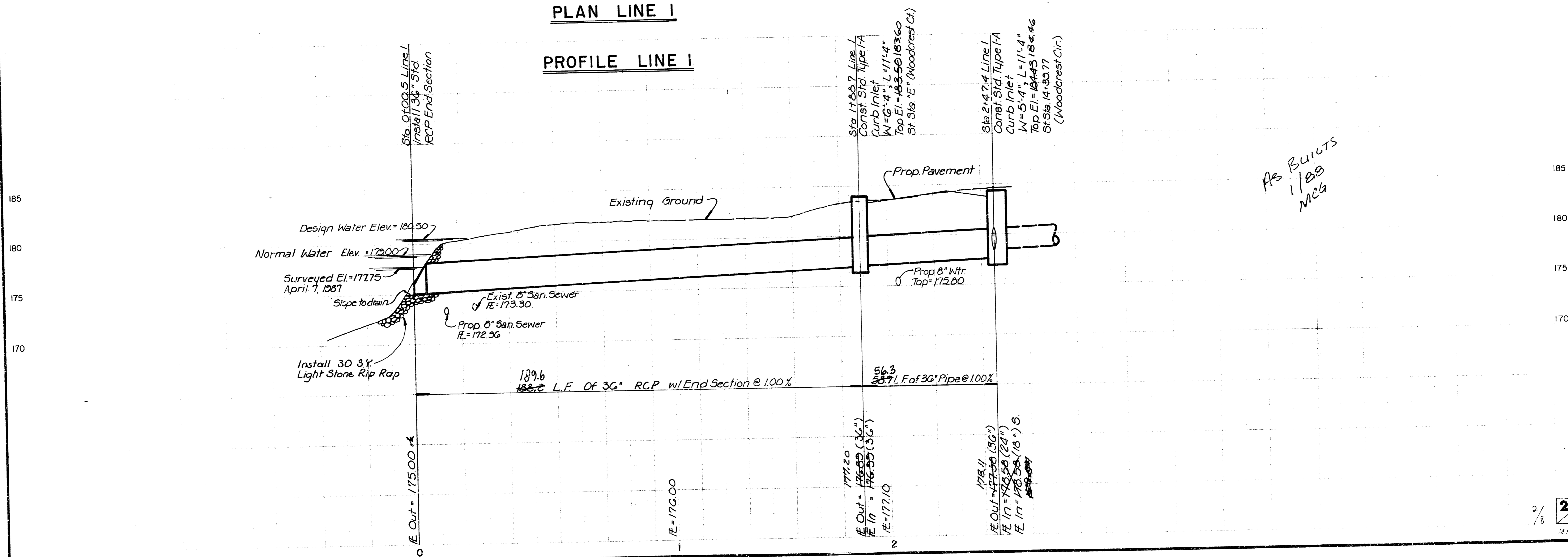


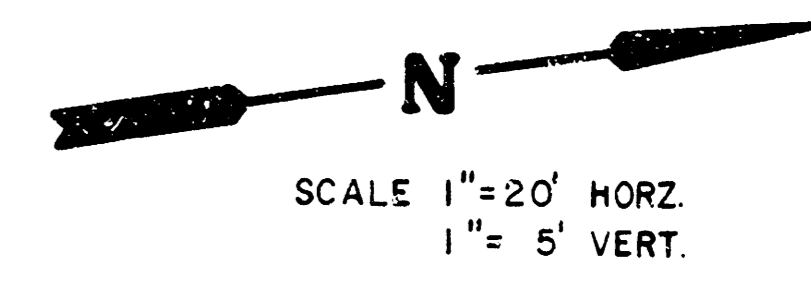
	WOODCREST ADDITION STORM WATER SEWER PLANS	Checked by APR. 1987
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #600 WICHITA, KANSAS 67226	
		Sheet 1 of 8



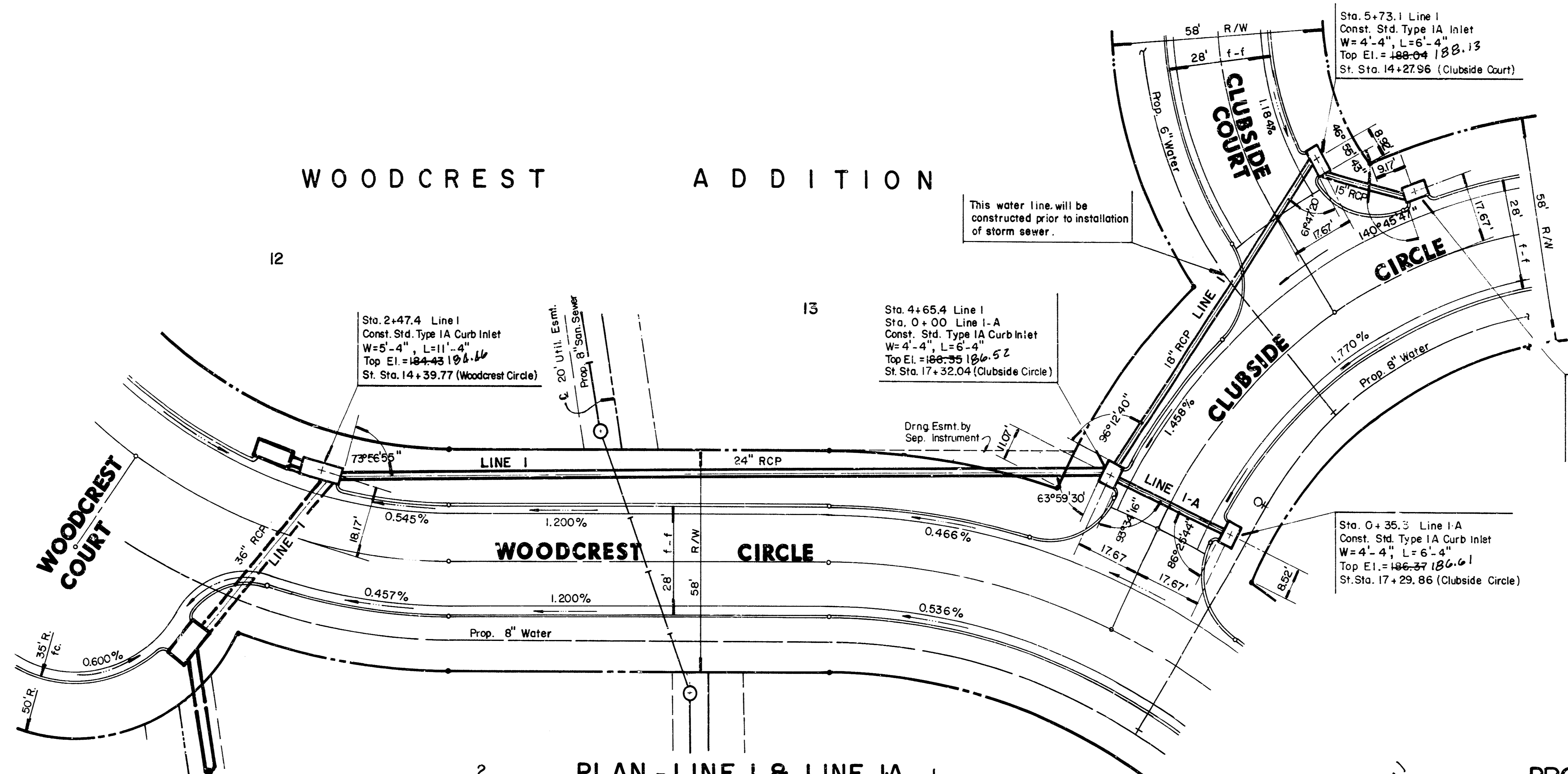
PLAN LINE I

PROFILE LINE I

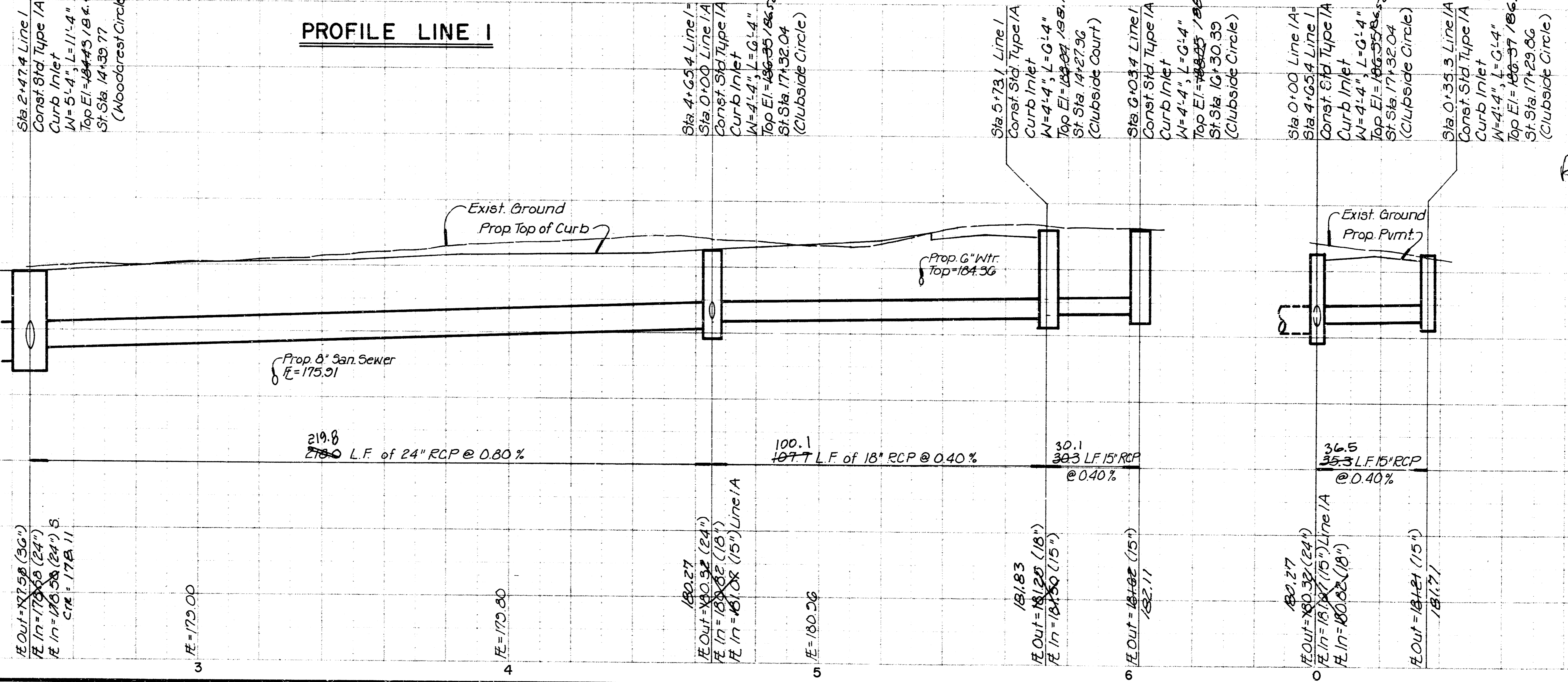




WOODCREST ADDITION



PLAN - LINE I & LINE I-A



PROFILE LINE I

PROFILE LINE I-A

Sta. 2+47.4 Line I
 Const. Std. Type IA
 Curb Inlet
 W=5'-4", L=11'-4"
 Top El.=184.43 (B. 4. 4)
 St. Sta. 14+39.77
 (Woodcrest Circle)

Sta. 4+65.4 Line I
 Sta. 0+00 Line I-A
 Const. Std. Type IA Curb Inlet
 W=4'-4", L=6'-4"
 Top El.=186.52 (B. 6. 2)
 St. Sta. 17+32.04 (Clubside Circle)

Sta. 5+73.1 Line I
 Const. Std. Type IA
 Curb Inlet
 W=4'-4", L=6'-4"
 Top El.=188.04 (B. 8. 13)
 St. Sta. 14+27.96 (Clubside Court)

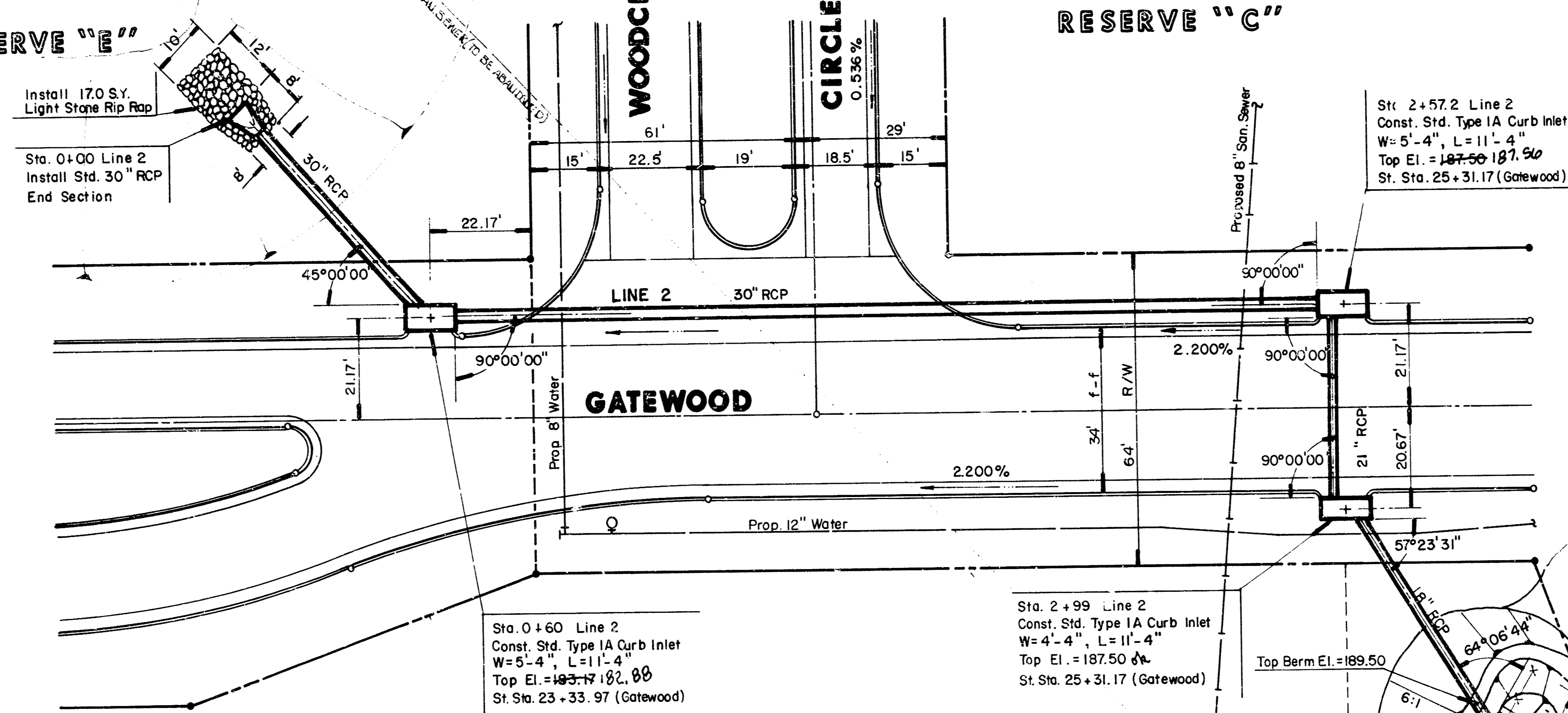
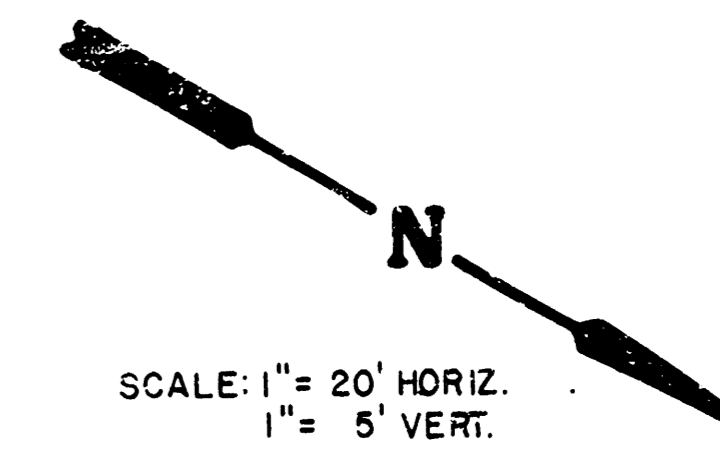
Sta. 0+35.3 Line I-A
 Const. Std. Type IA Curb Inlet
 W=4'-4", L=6'-4"
 Top El.=186.37 (B. 6. 1)
 St. Sta. 17+29.86 (Clubside Circle)

Sta. 6+03.4 Line I
 Const. Std. Type IA Curb Inlet
 W=4'-4", L=6'-4"
 Top El.=188.05 (B. 8. 2. 1)
 St. Sta. 16+30.39 (Clubside Circle)

AS BUILTS
 1/88
 MEG

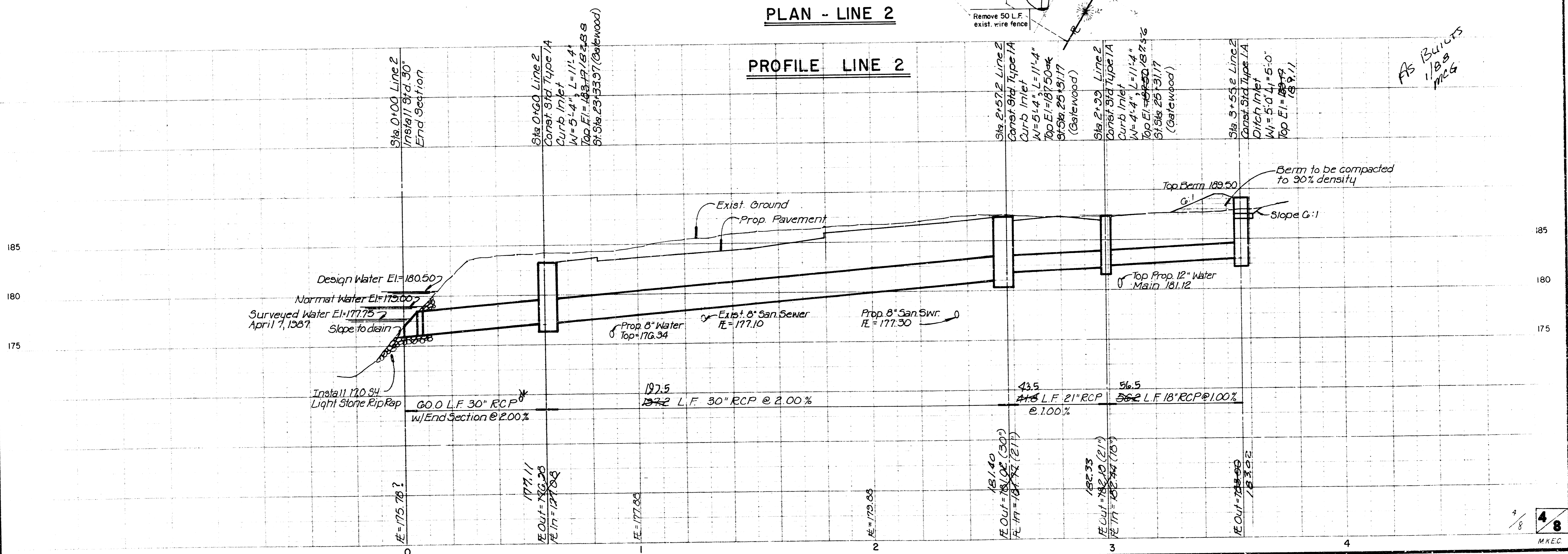
WOODCREST
 RESERVE "E"

WOODCREST
 ADDITION
 RESERVE "C"



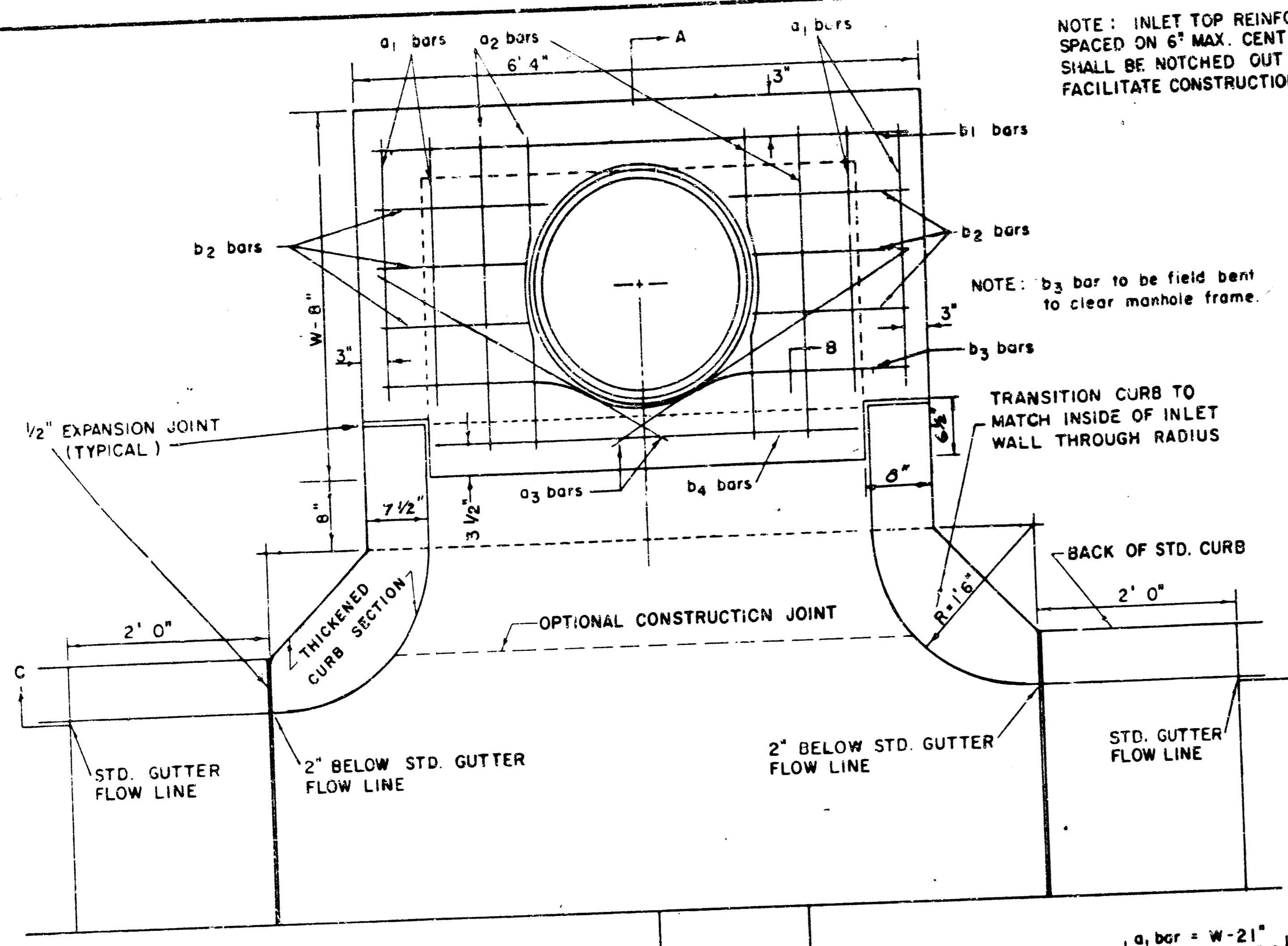
PLAN - LINE 2

PROFILE LINE 2



NOTE: Fence removal and Berm is subsidiary to Type IA Ditch Inlet Cost

AS BUILT
 11/8/83
 MEG



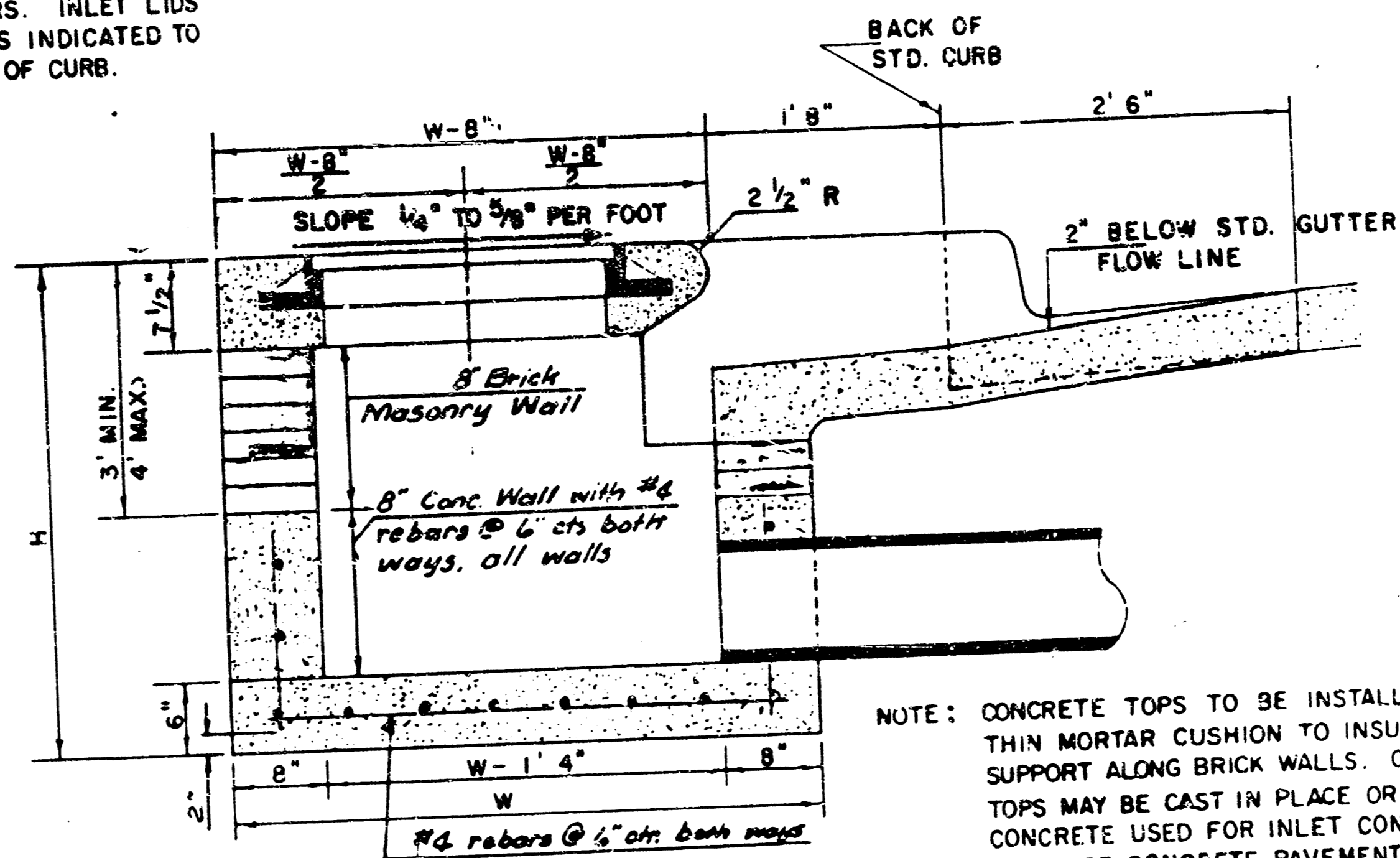
NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: b3 bar to be field bent to clear manhole frame.

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS



SECTION A-A

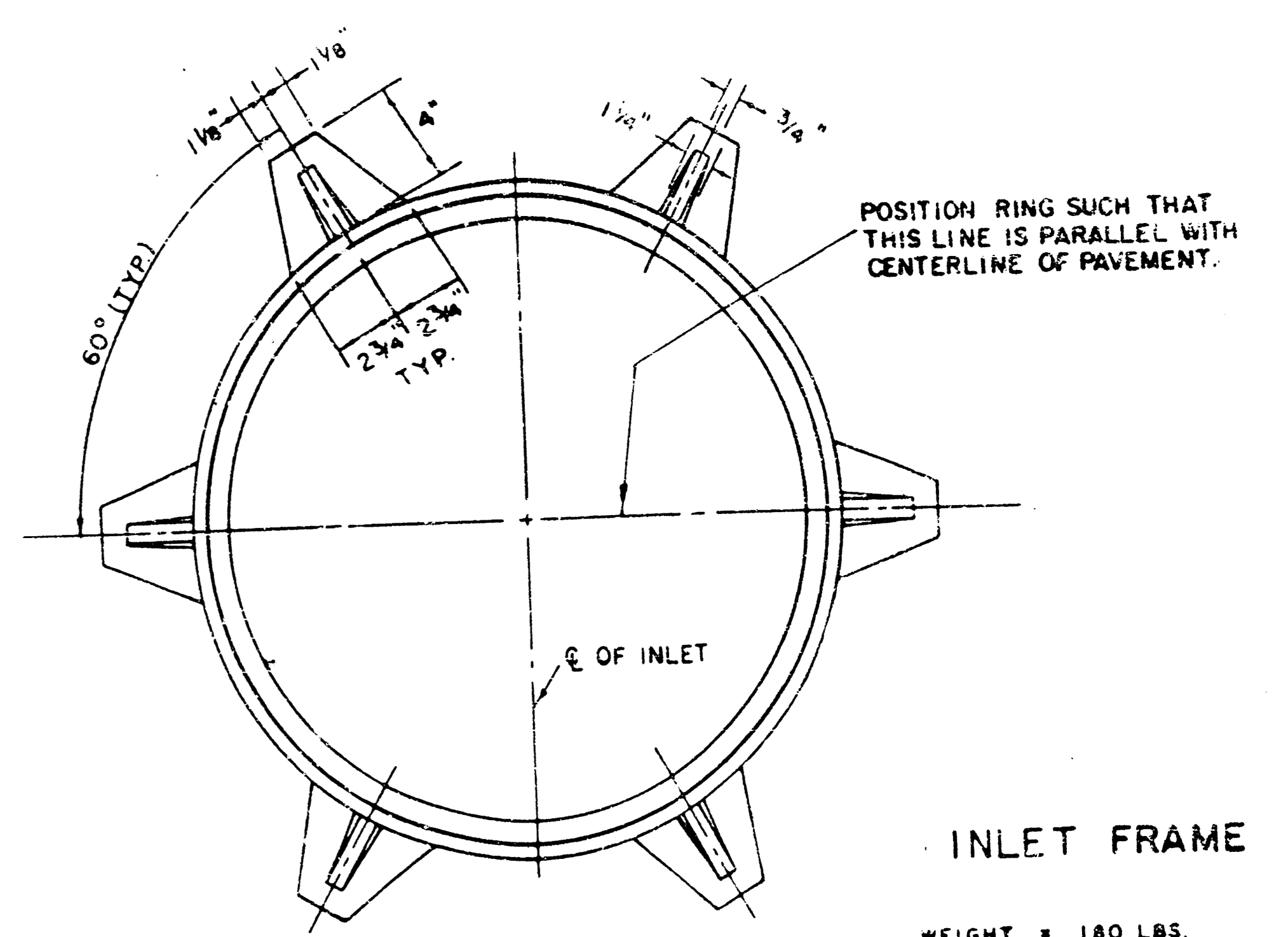
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6' 4" AND H = 7' 0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

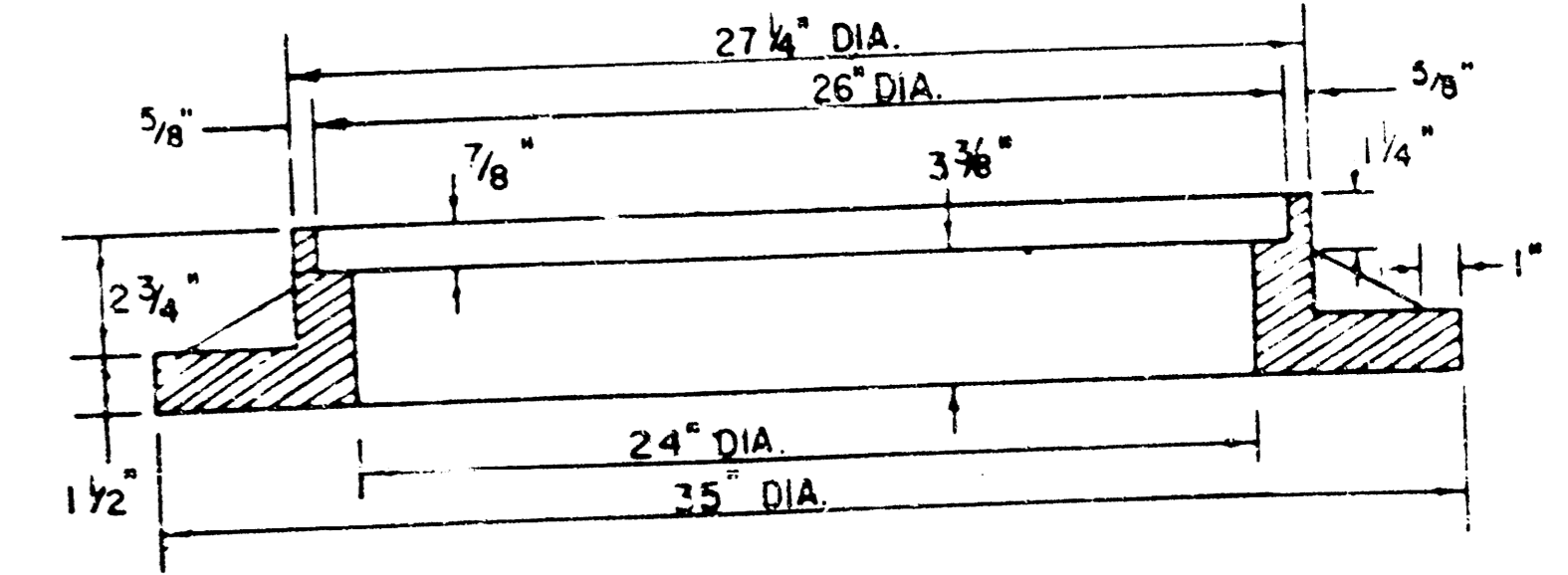
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



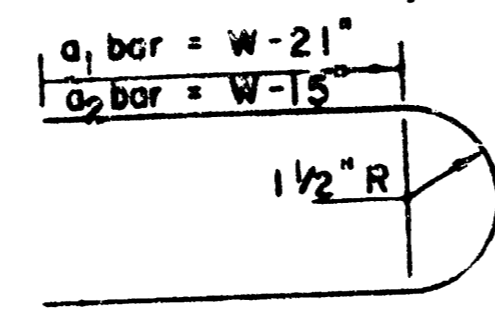
INLET FRAME

WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

BENDING DIAGRAM

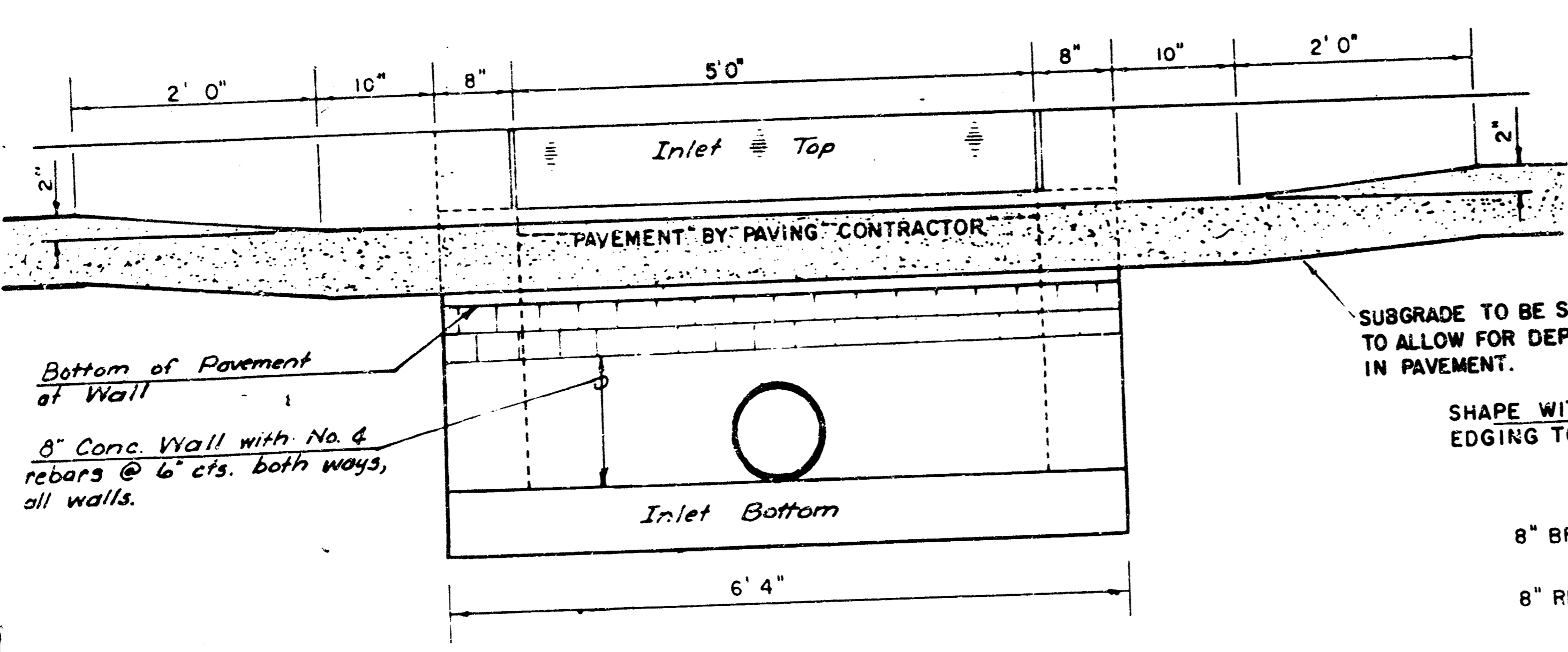


STEEL SCHEDULE

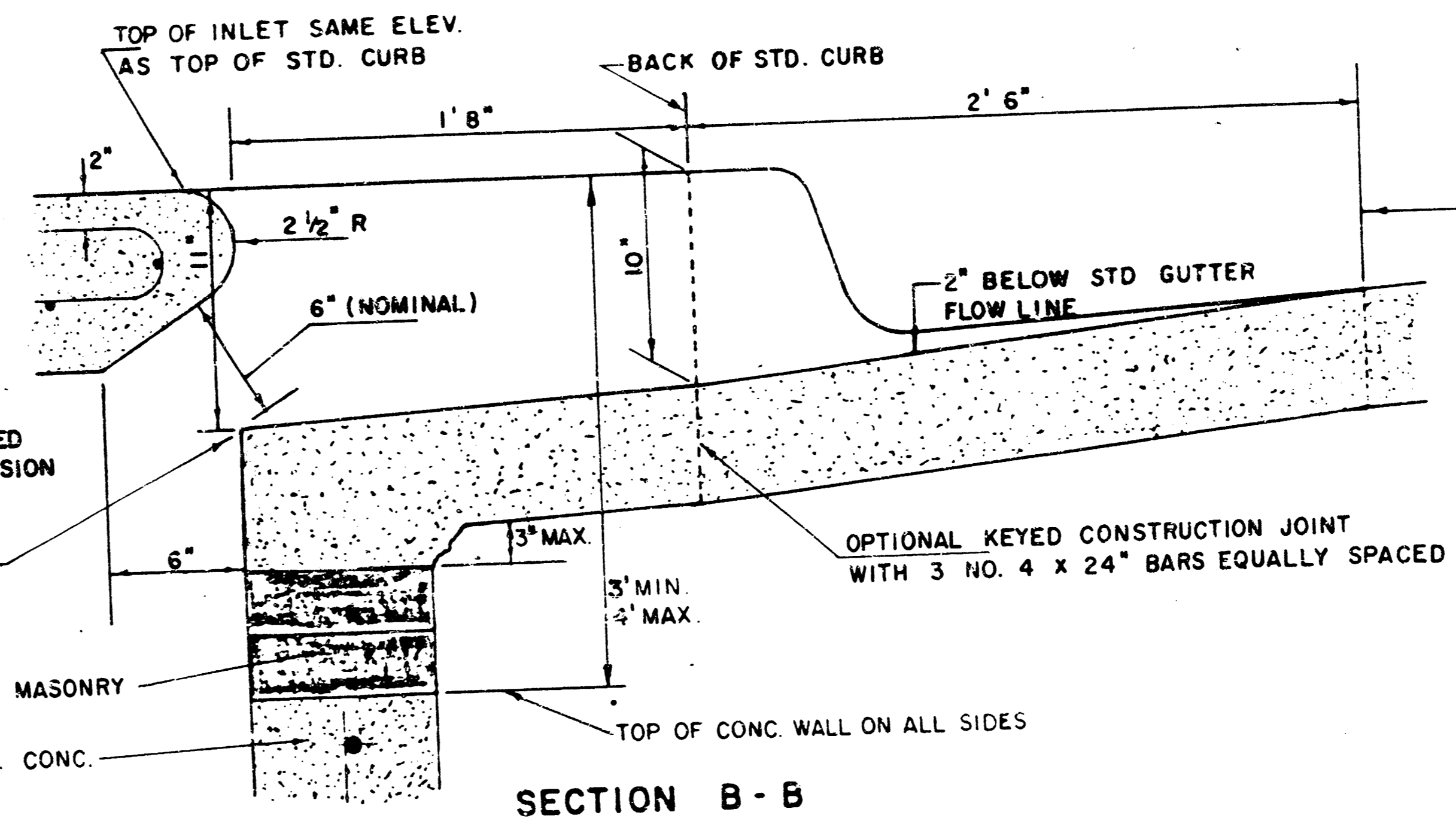
BAR NUMBER	a1	a2	a3	b1	b2	b3	b4	WT. LBS.
4	4	2	1	3	5	7	9	60 ±
5	4	4	2	3	5	7	9	81 ±
6	4	4	2	3	5	7	9	101 ±
7	4	4	2	3	5	7	9	121 ±
8	4	4	2	3	5	7	9	141 ±

* NOTE: a3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD. CONC.
4' 4"	3' 8" x 6' 4" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4' 8" x 6' 4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	5' 8" x 6' 4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	6' 8" x 6' 4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	7' 8" x 6' 4" x 7 1/2"	60" & 66"	0.90 ±



SECTION C-C



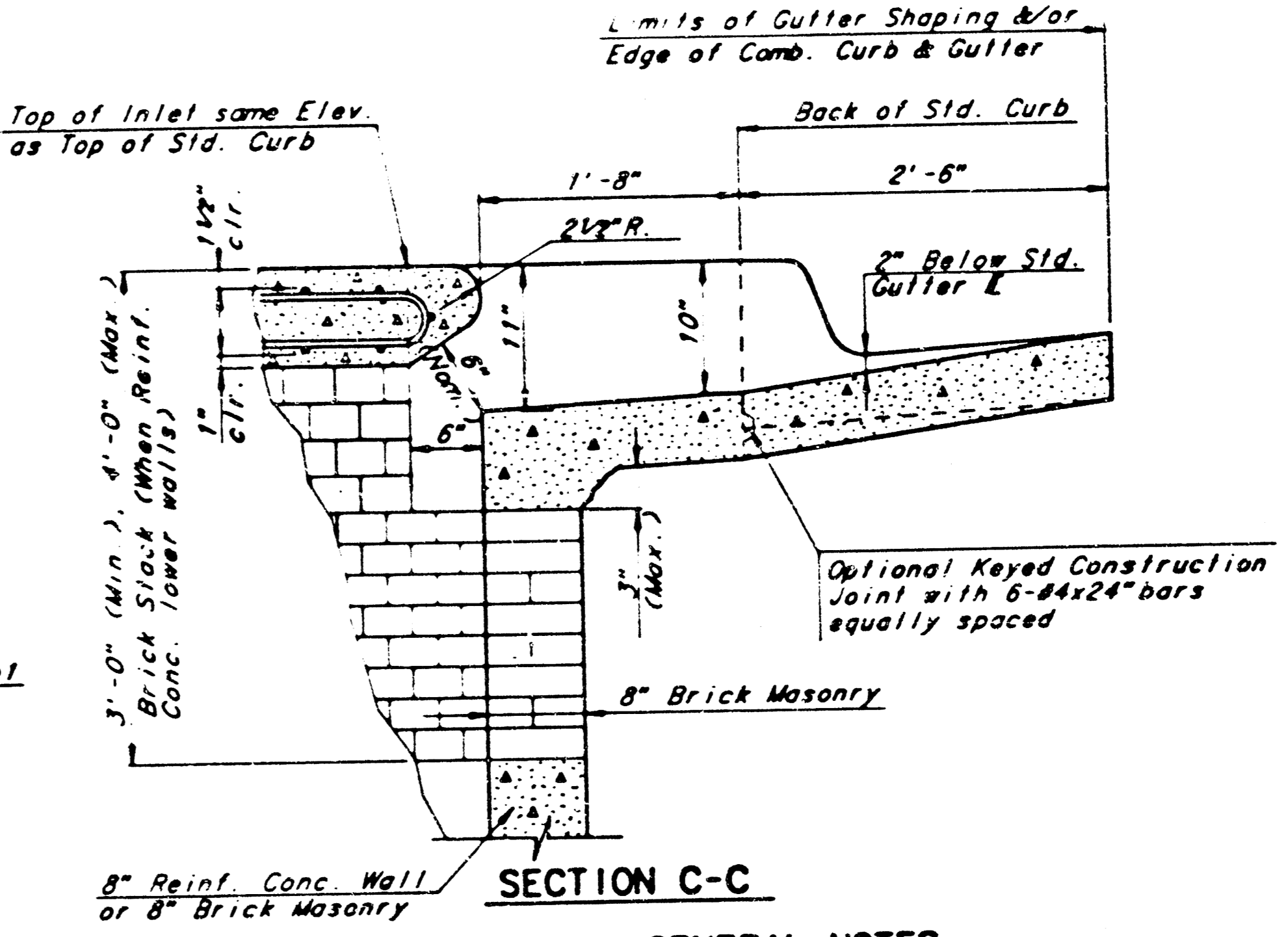
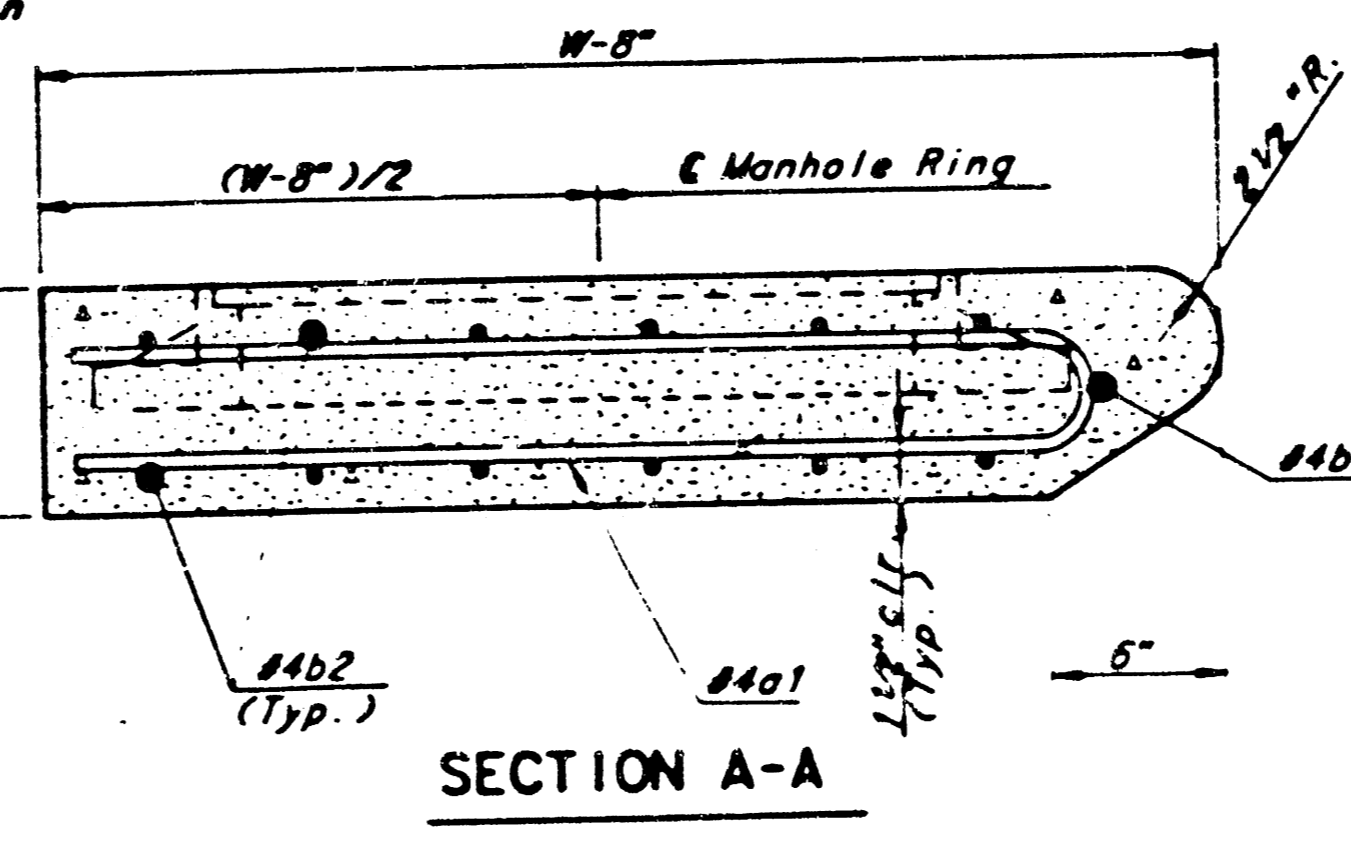
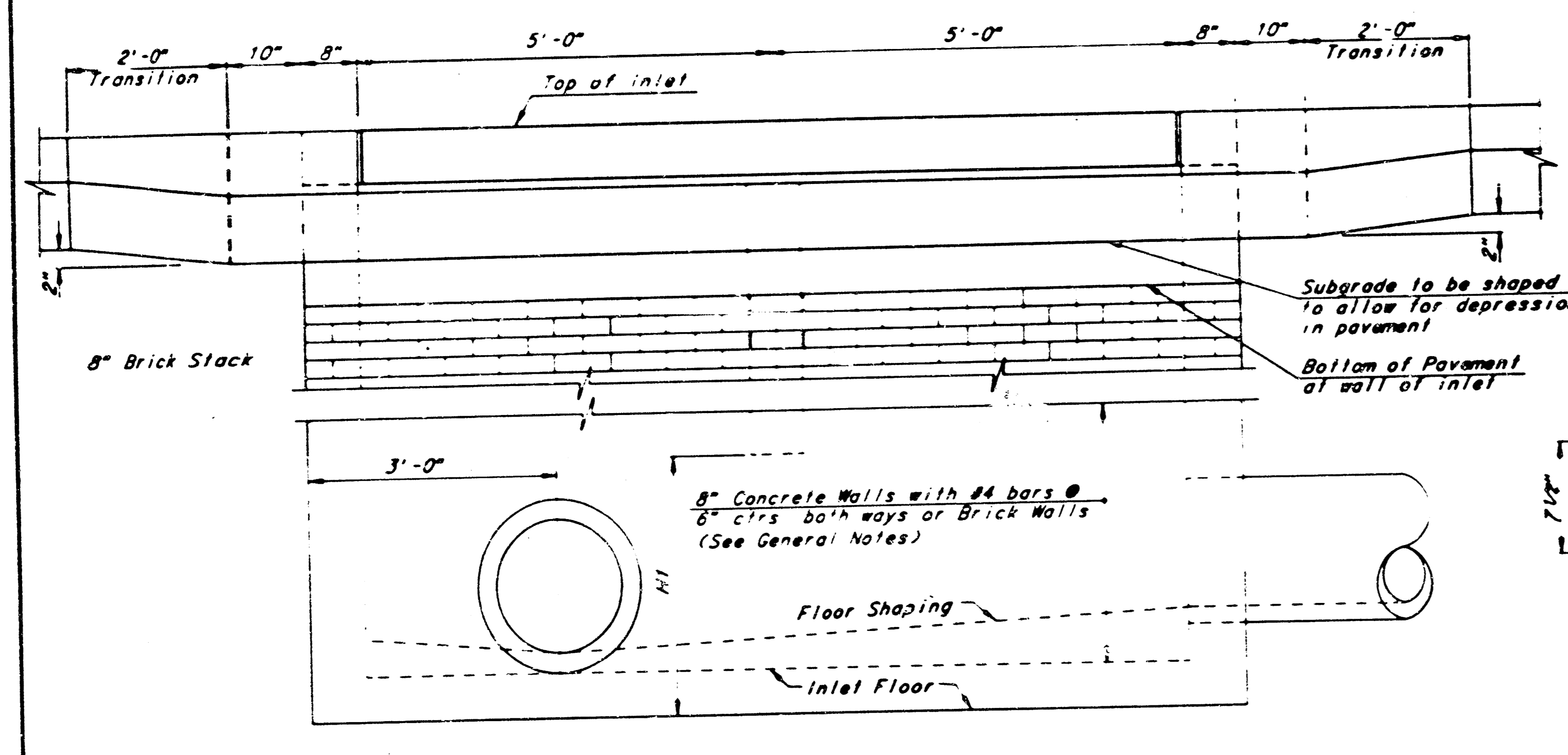
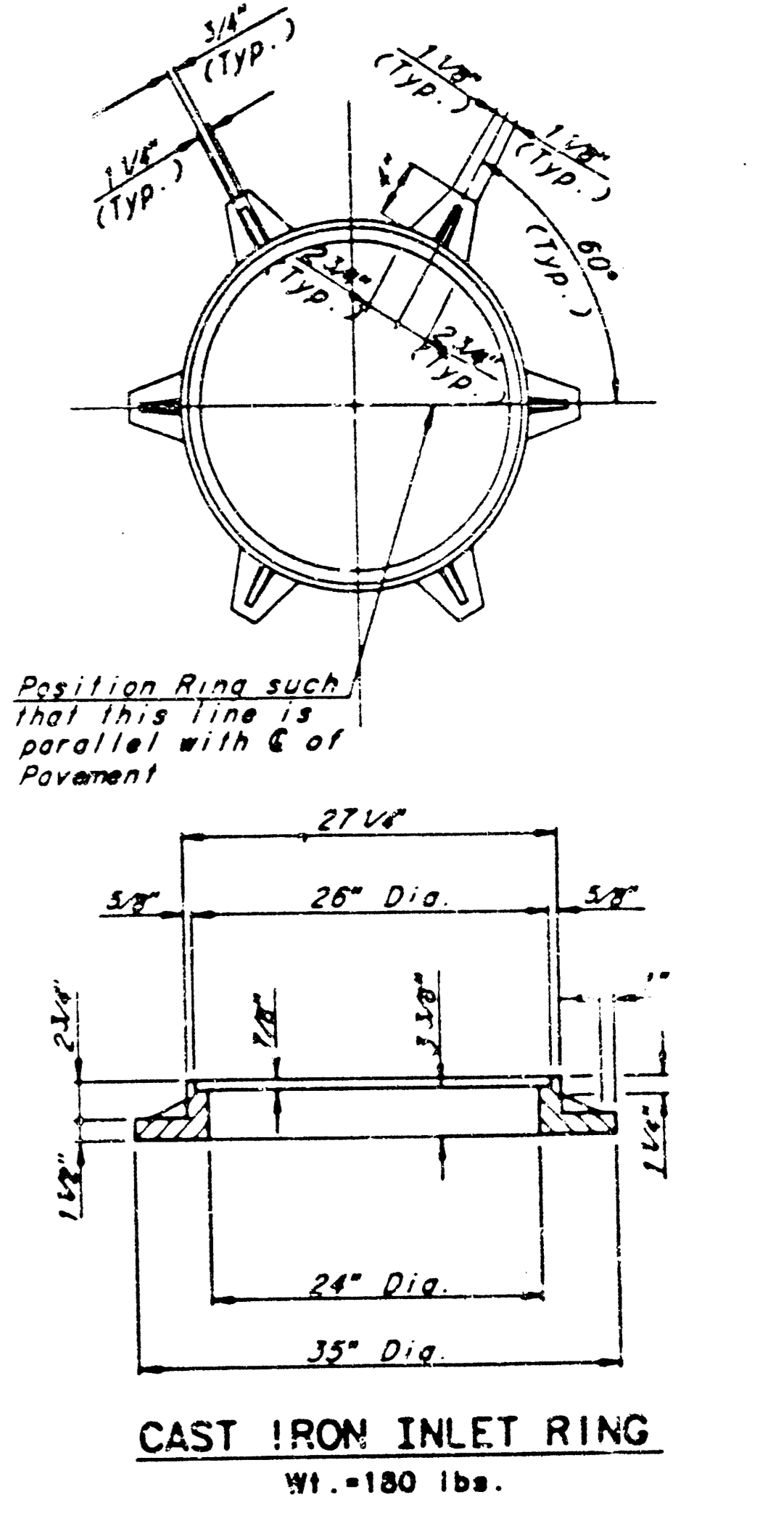
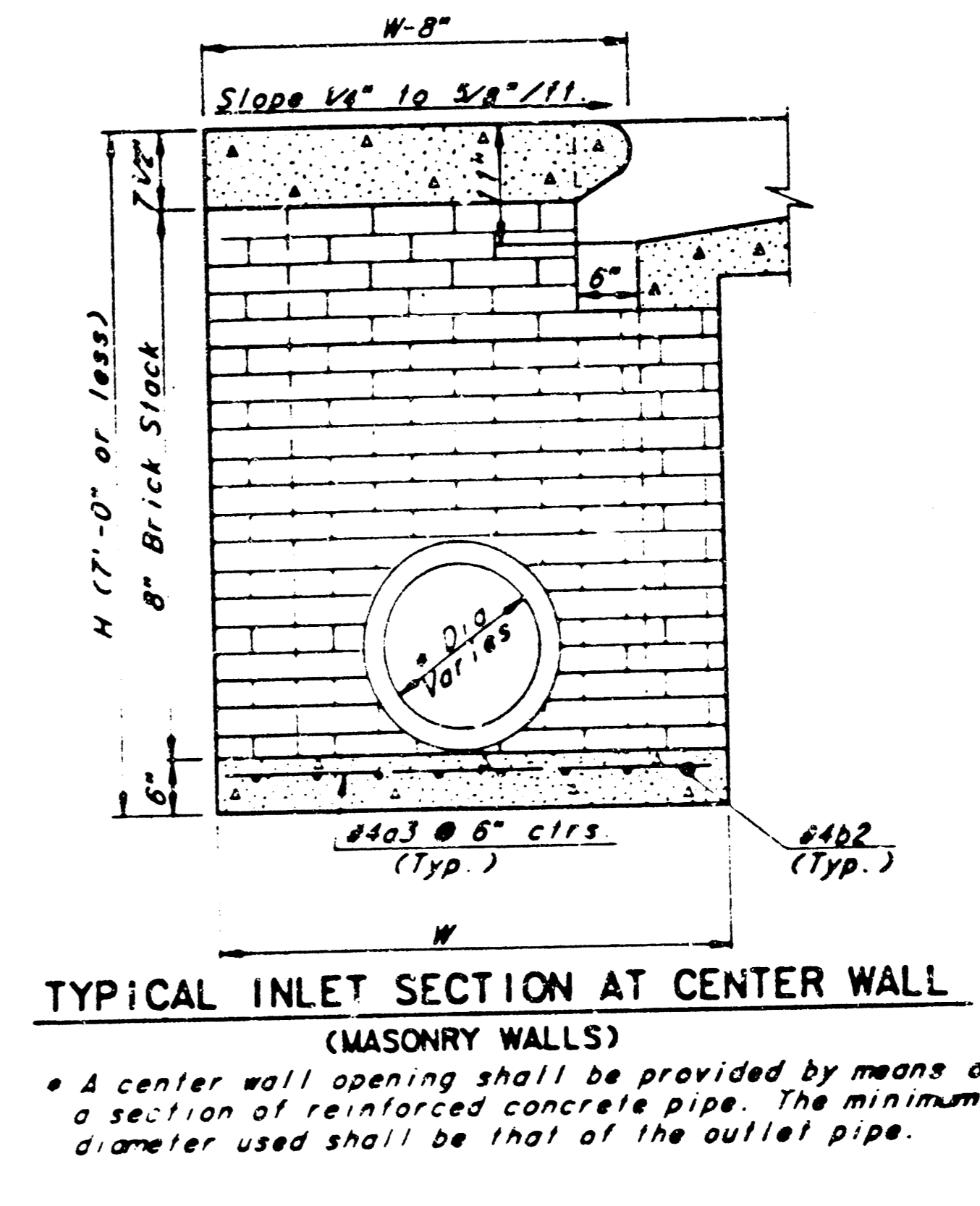
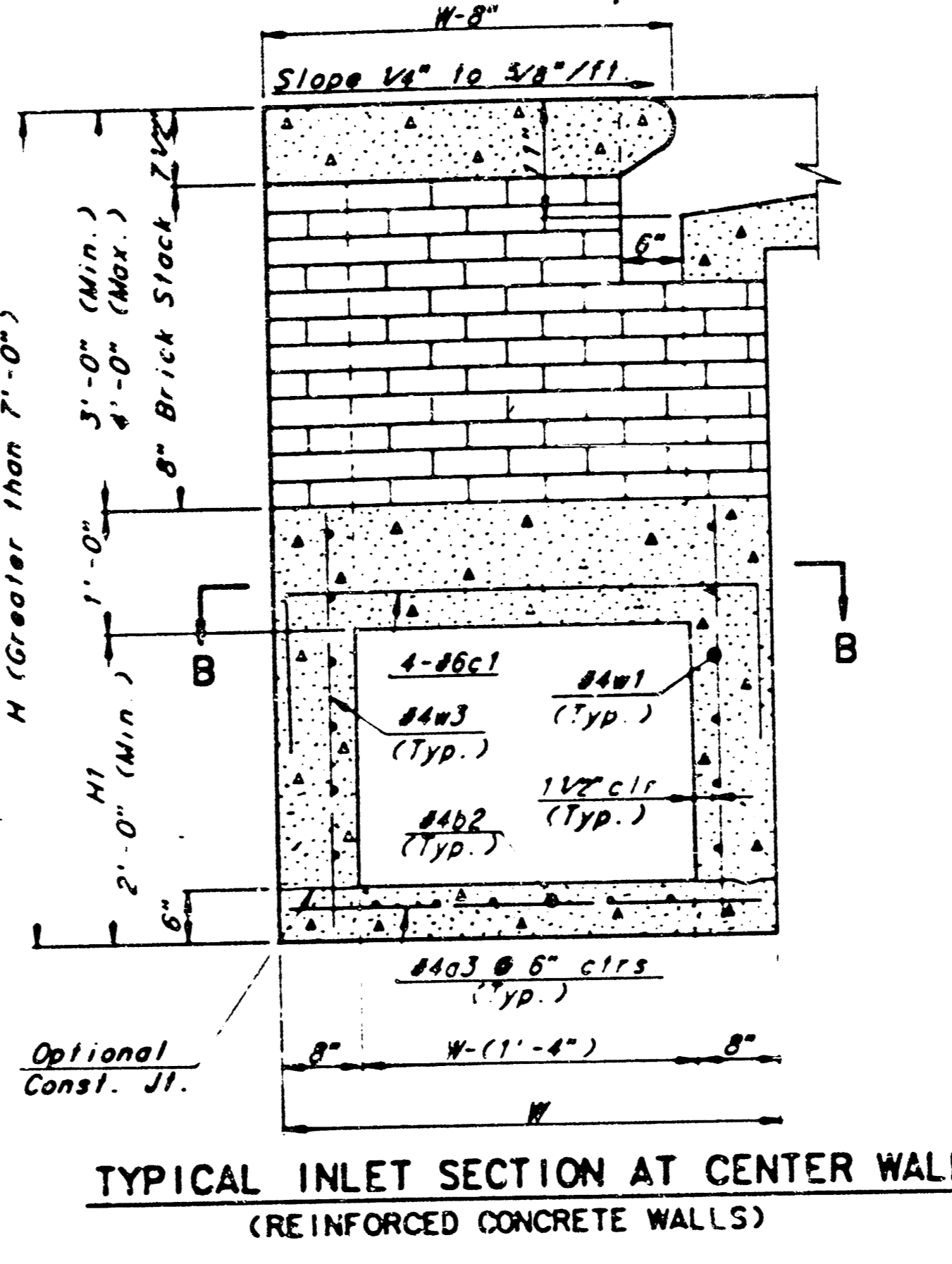
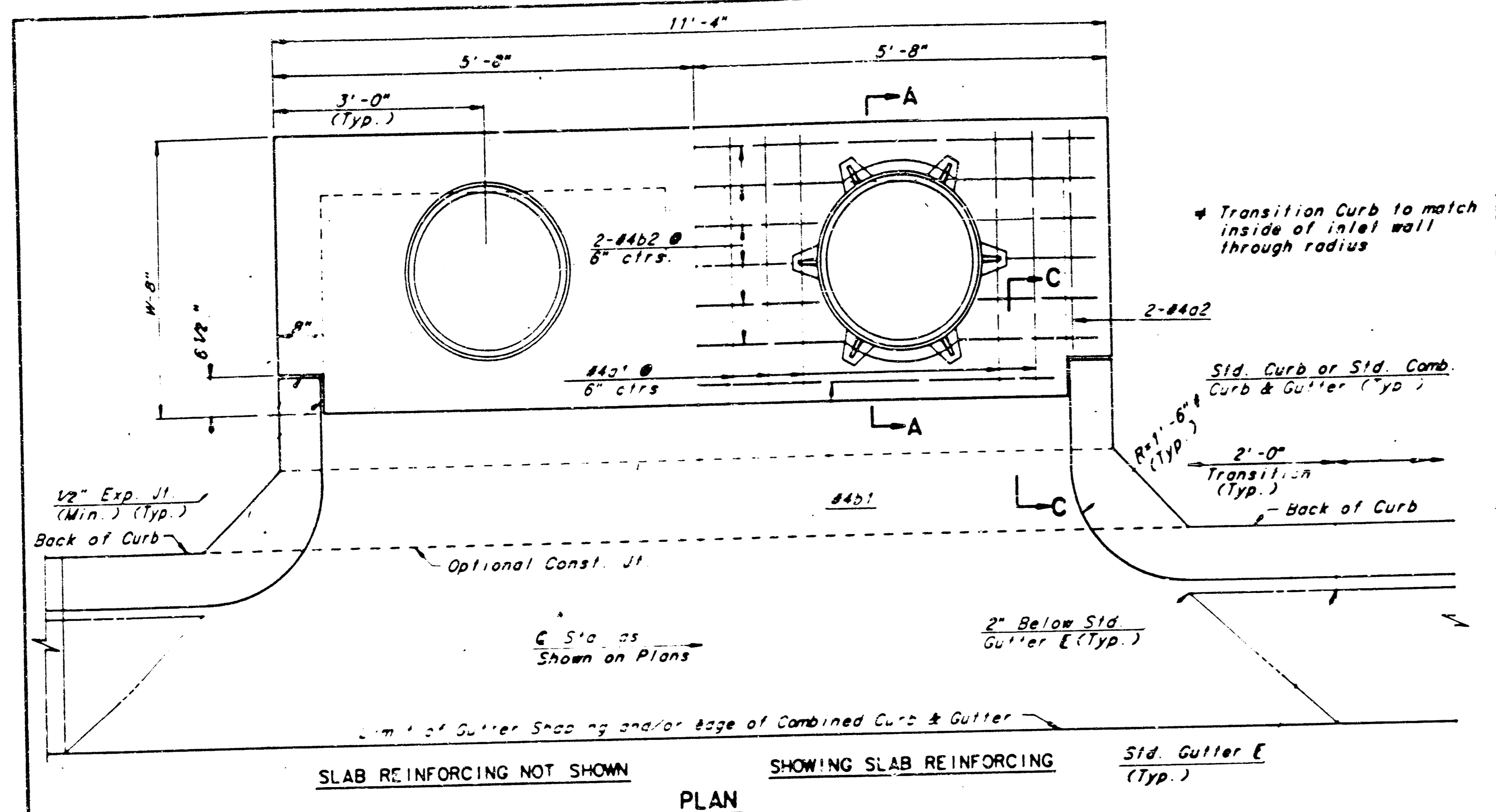
SECTION B-B

LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER

REVISED 12-21-1984

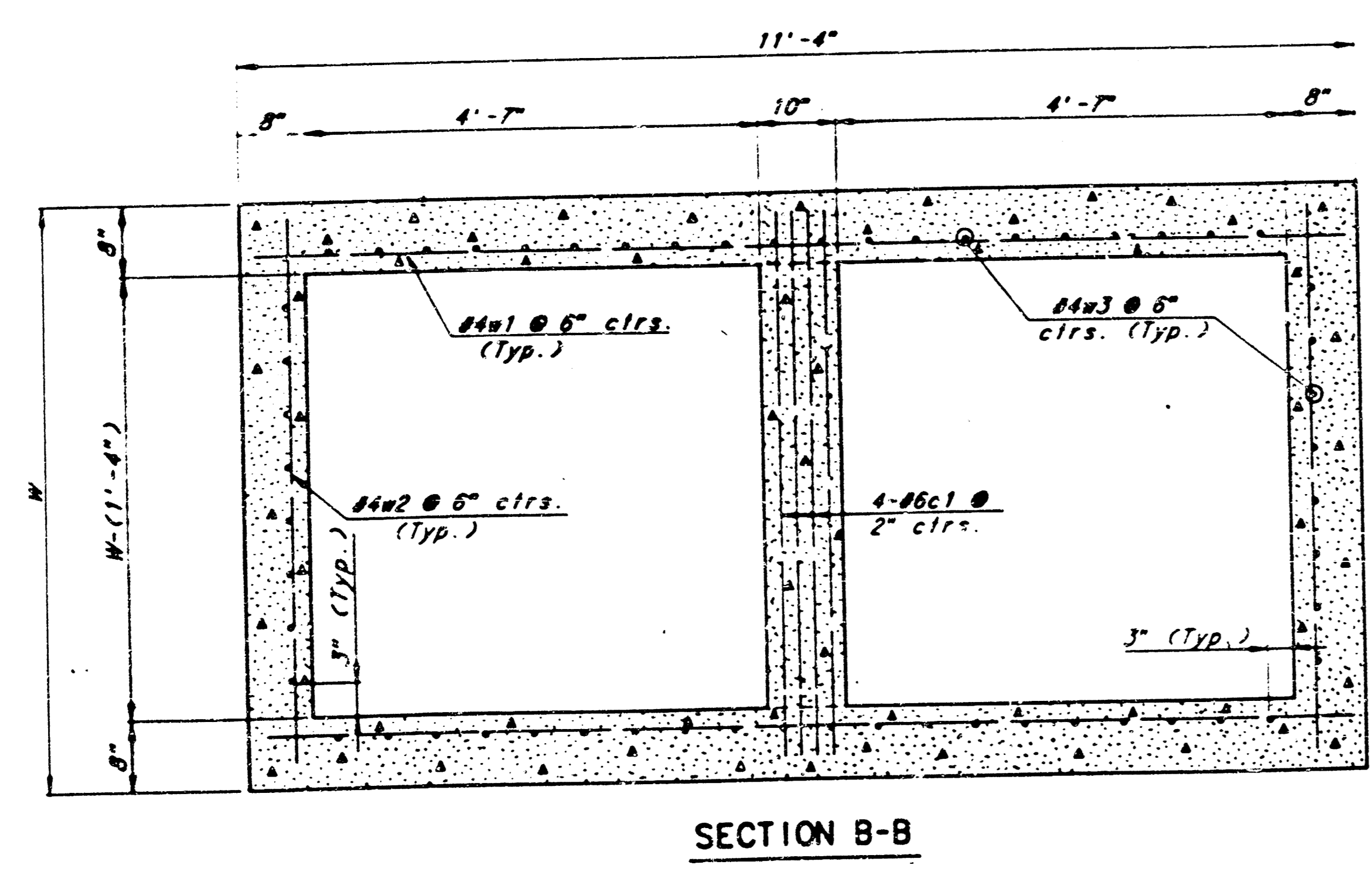
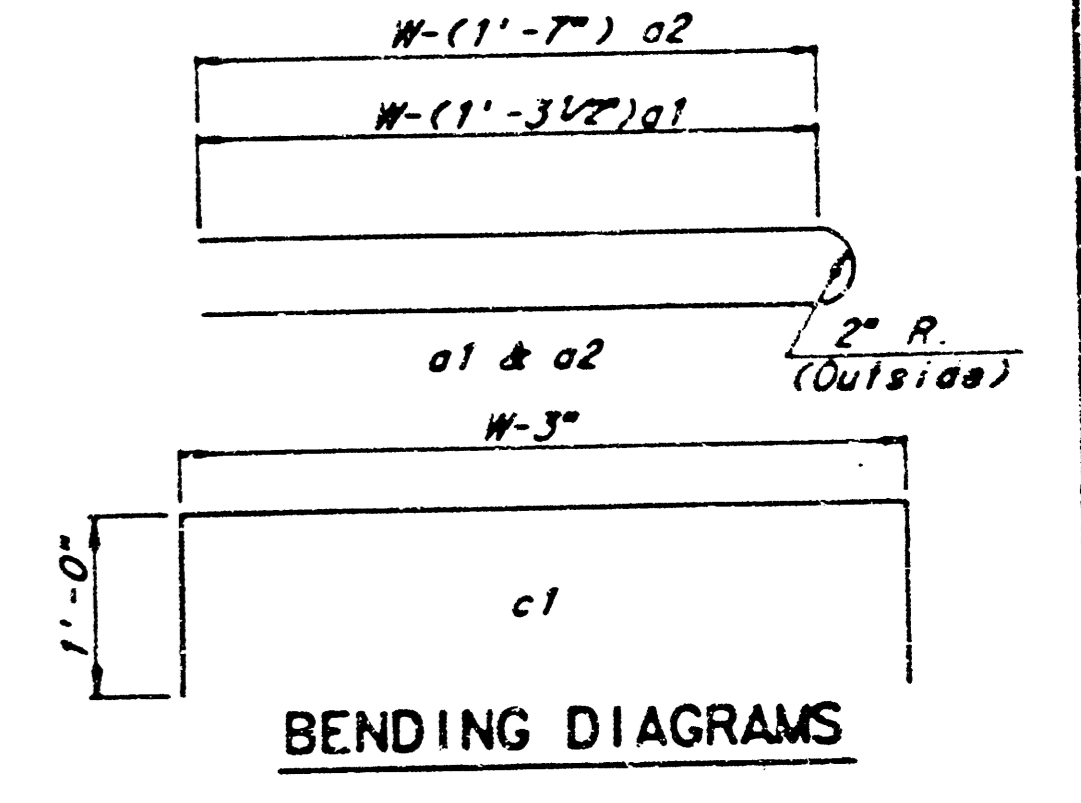
DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"

JUNE 1984



GENERAL NOTES

- THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=6'-4" OR LESS AND H=7'-0" OR LESS. WHEN W IS GREATER THAN 6'-4" AND H IS LESS THAN 7'-0", THE OUTSIDE INLET WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
- INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- 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 USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.
- INLET TOP REINFORCING SHALL BE SPACED ON 8" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR MANHOLE RING.
- THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SLAB AND FLOOR REINFORCING											
MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-7 1/4"	13	8'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"	13	14'-7 1/4"
a2	#4	2	6'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
b1	#4	7	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"
#b2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

WALL REINFORCING											
MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#6	4	6'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
w1	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	②	③	②	③	②	③	②	③	②	③

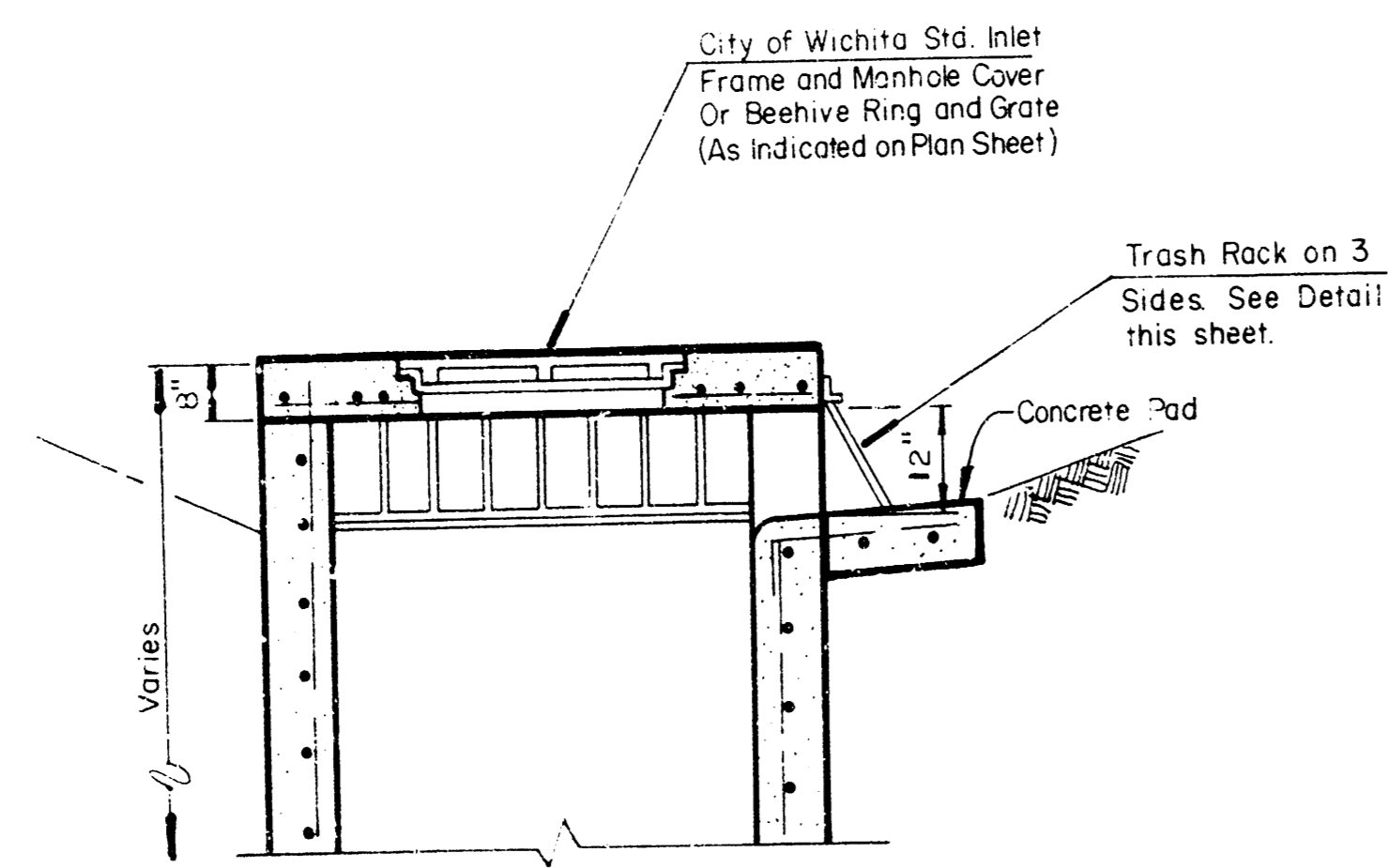
* Field bend or cut Reinforcing as required for clearance
 ① 4(HI-6")-4 (HI-6") Rounded down to nearest 0.5'
 ② 40-4(W-16") ③ HI-(5")

STANDARD TYPE 1A
 CURB INLET
 INLET OPENING = 6" x 10'-0"

WICHITA, KANSAS

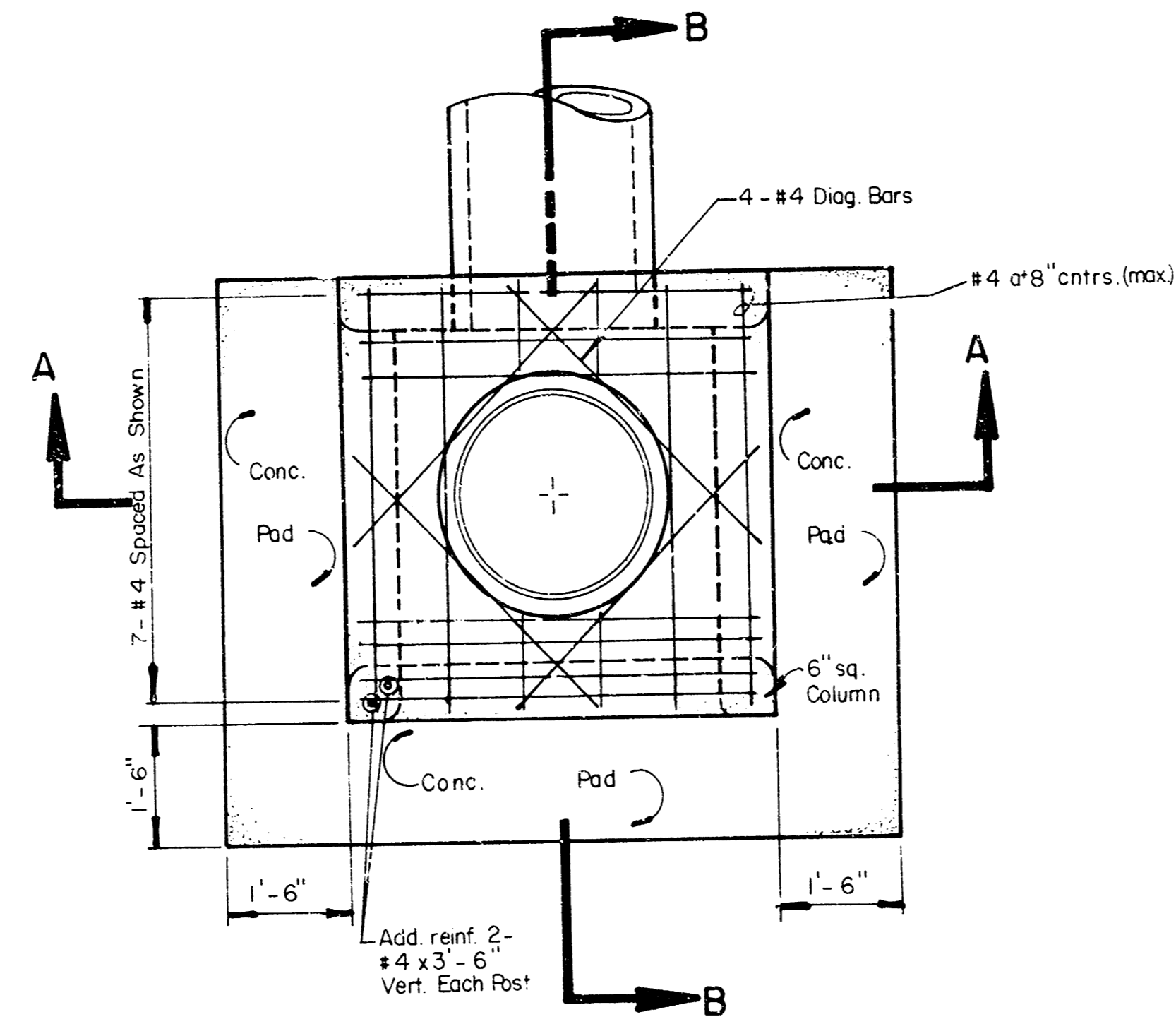
Designed by BER, KJS, AMB Checked by AMB
 Drawn by JGP Date Nov., 1984 Job No.

REVISED 12-21-84

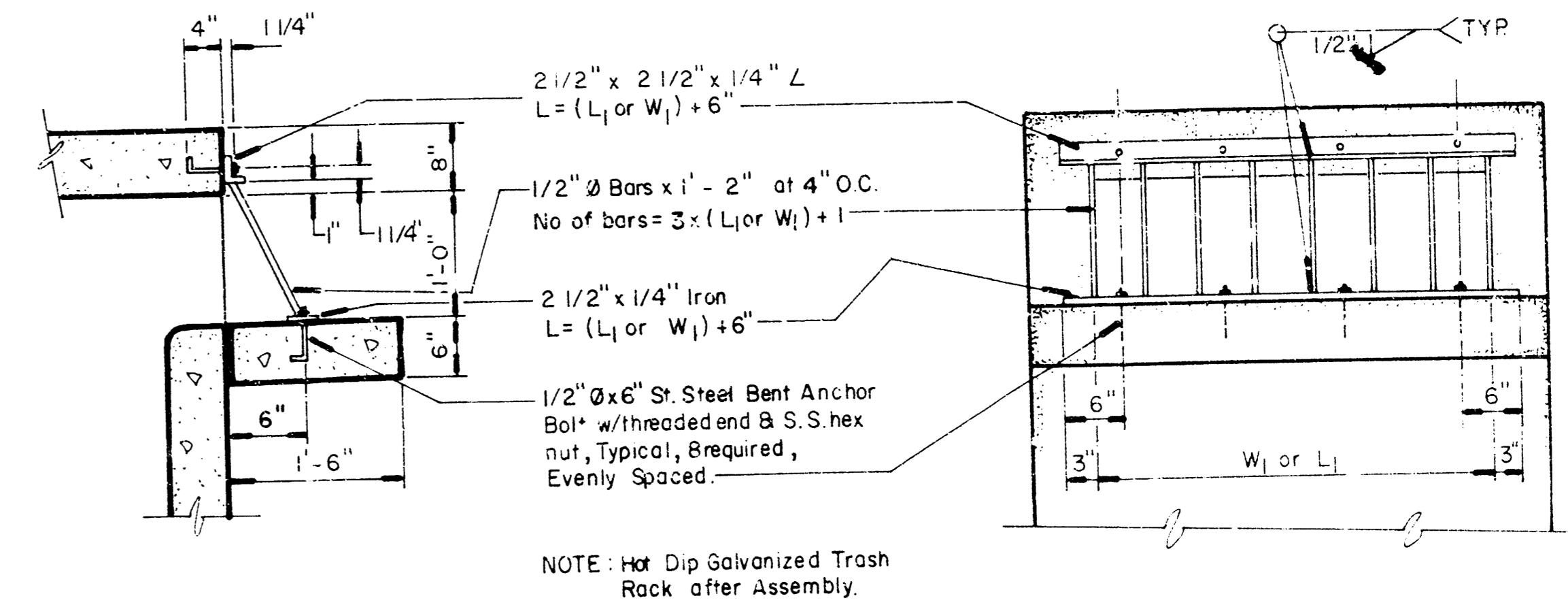


SECTION B-B

DITCH INLET TYPE I-A

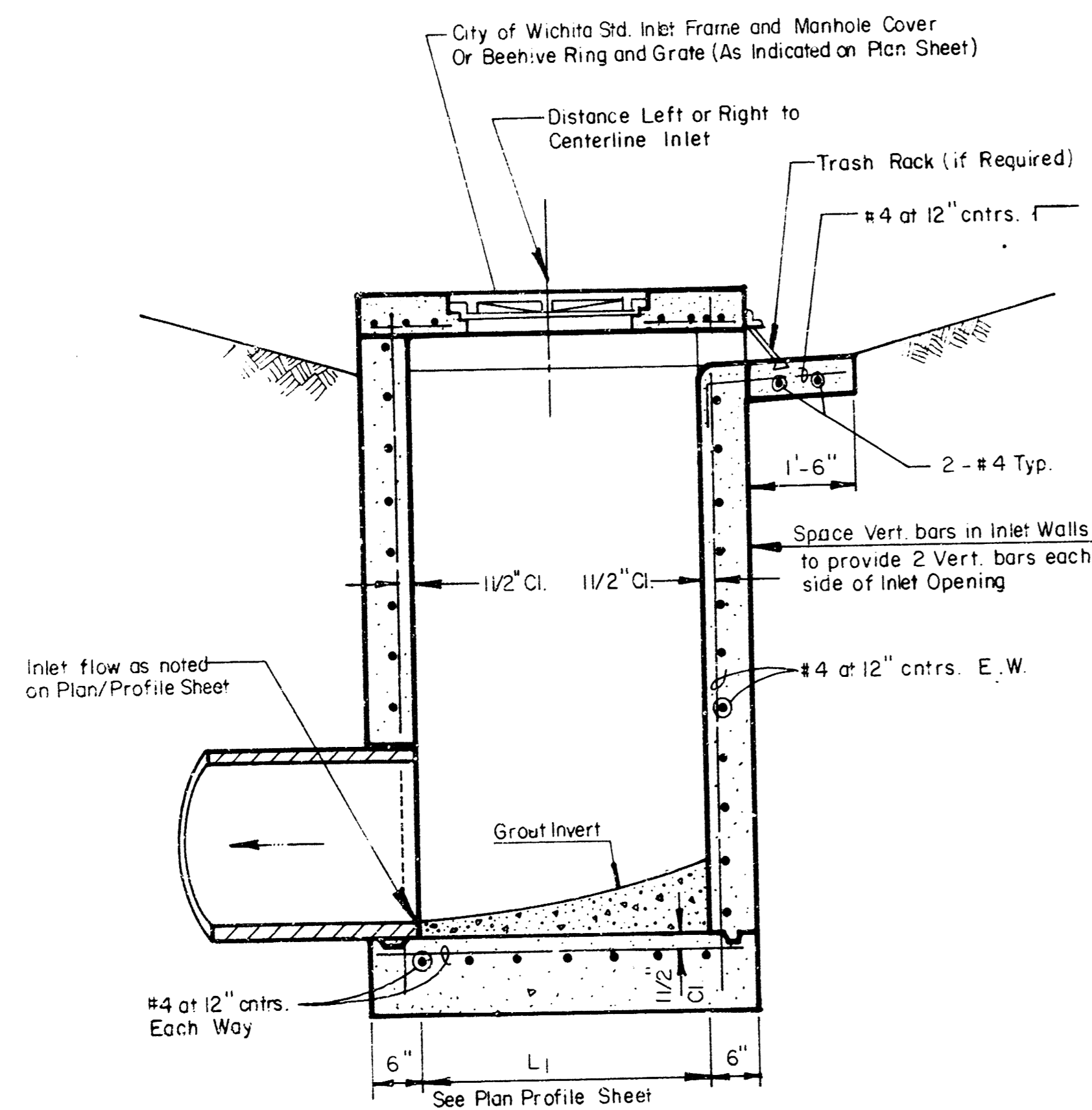


PLAN



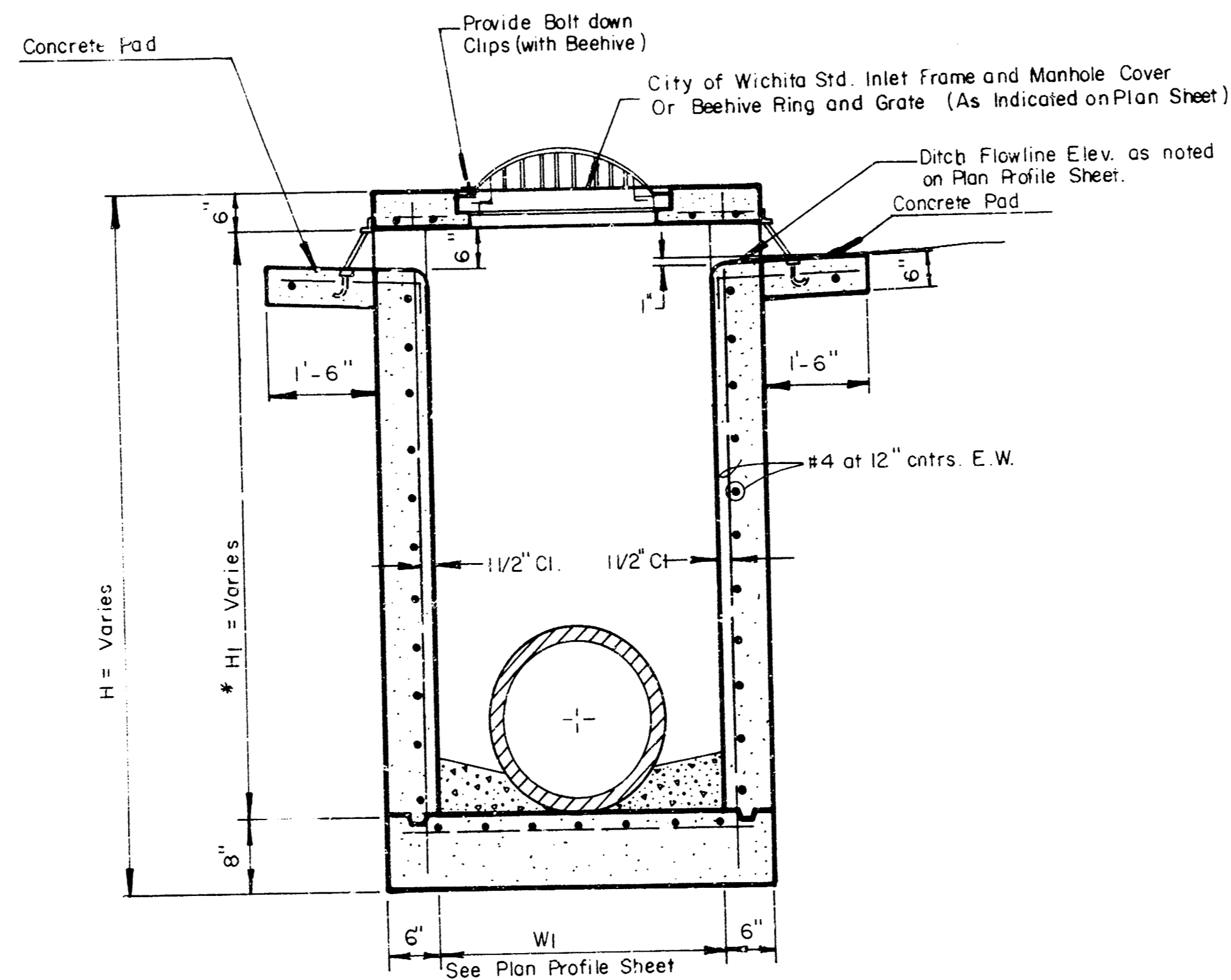
TRASH RACK DETAIL

FOR USE WITH TYPE I-A DITCH INLET
(NO SCALE)



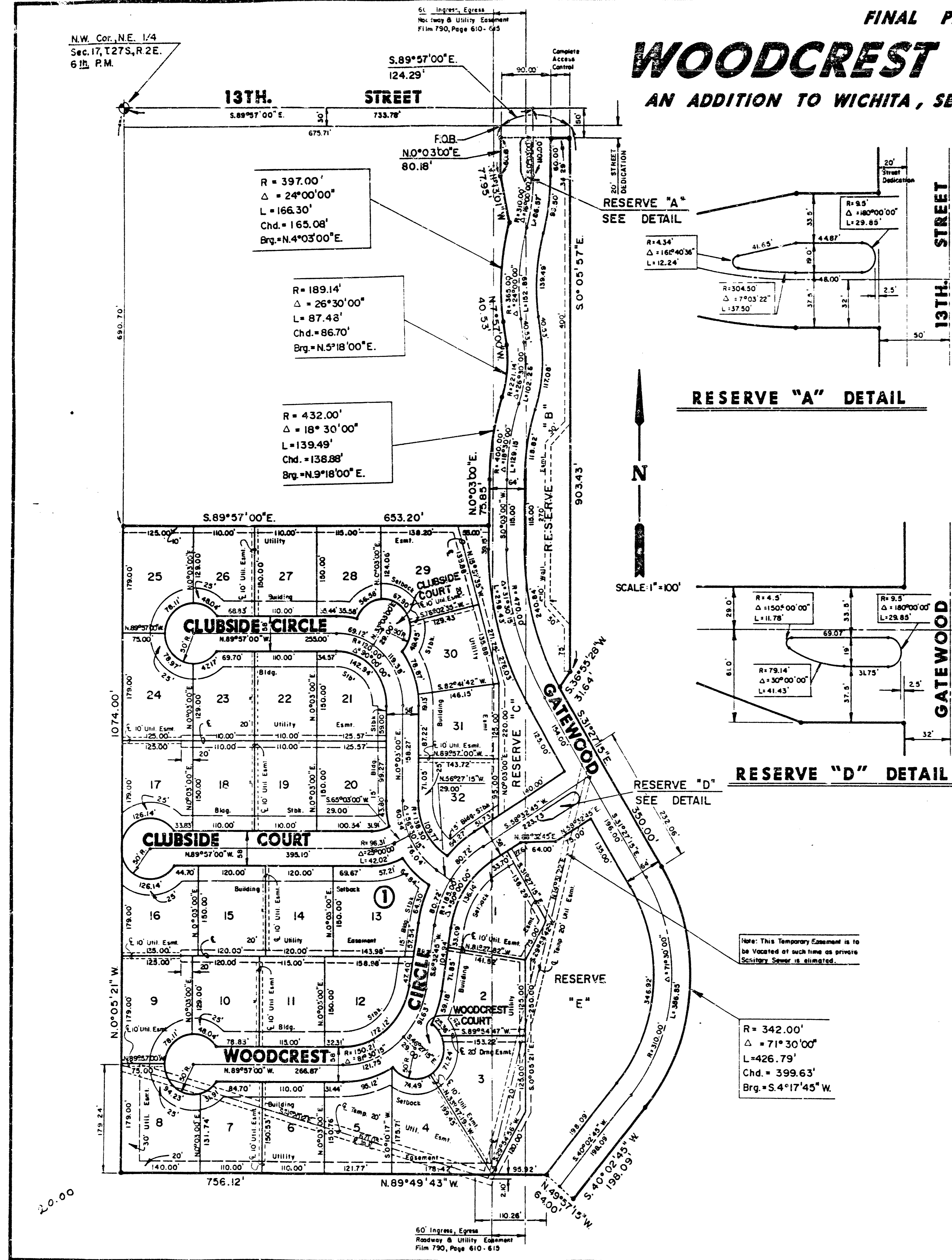
SECTION B-B

DITCH INLET TYPE I



SECTION A-A

	WOODCREST ADDITION	Date: _____ Drawn by: _____ Date: _____ Issue: _____
	STD. DITCH INLET TYPE I / I-A	Sheet: 7 of 8
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226	682-6561



FINAL PLAT OF
WOODCREST ADDITION
 AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

I, Allen D. Lowry, being a duly registered Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WOODCREST ADDITION", an addition to Wichita, Sedgwick County, Kansas, into Lots, a Block, Streets and Reserves, the same being accurately set forth in the accompanying plat and described herein:

A tract of land lying in the Northeast Quarter, Section 17, Township 27 South, Range 2 East of the 6th P.M., Sedgwick County, Kansas, more particularly described as follows:

Commencing at the Northeast corner of said Northeast Quarter; thence S 0° 05' 21" E, 30.00 feet along the West line of said Northeast Quarter; thence S 89° 57' 00" E, 675.71 feet parallel with the North line of said Northeast Quarter to the point of beginning; thence S 89° 57' 00" E, 124.29 feet; thence S 0° 05' 57" E, 903.43 feet; thence S 36° 55' 28" W, 31.64 feet; thence S 31° 27' 15" E, 350.00 feet to a point on a curve to the right; thence along said curve 426.79 feet, said curve having a central angle of 71° 30' 00", a radius of 342.00 feet, and a long chord of 399.63 feet, bearing S 4° 17' 45" W; thence S 40° 02' 45" W, 198.09 feet; thence N 49° 57' 15" W, 24.00 feet; thence N 89° 49' 43" W, 756.12 feet to a point on the West line of said Northeast Quarter, said point lying 894.00 feet North of the Southwest corner of said Northeast Quarter; thence N 0° 05' 21" W, 1074.00 feet along the West line of said Northeast Quarter; thence S 89° 57' 00" E, 653.20 feet; thence N 0° 03' 00" E, 75.85 feet to a point on a curve to the right; thence along said curve 139.49 feet, said curve having a central angle of 18° 30' 00", a radius of 432.00 feet, and a long chord of 138.88 feet, bearing N 7° 18' 00" E, to a point on a curve to the left; thence along said curve 87.43 feet, said curve having a central angle of 26° 30' 00", a radius of 189.14 feet, and a long chord of 86.70 feet, bearing N 5° 18' 00" E; thence N 7° 57' 00" W, 40.53 feet to a point on a curve to the right; thence along said curve 166.30 feet, said curve having a central angle of 24° 00' 00", a radius of 397.00 feet, and a long chord of 165.08 feet, bearing N 4° 03' 00" E; thence N 11° 13' 01" W, 77.95 feet; thence N 0° 03' 00" E, 80.18 feet to the point of beginning.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 24th day of December, 1986.

Allen D. Lowry
 Allen D. Lowry, RLS #753
 Mid-Kansas Engineering Consultants, P.A.
 3500 N. Rock Road, Building #808
 Wichita, KS 67226



Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers Certificate, have caused the same to be surveyed and platting into lots, a block, streets and reserves, the same to be known as "WOODCREST ADDITION" an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of drainage and public utilities as indicated on the accompanying plat are hereby granted. The temporary sewer easements on Lots 3 through 8, Block 1 and Reserve "E" are hereby granted, however, they shall automatically be vacated upon abandonment of the existing sanitary sewer laterals. The well easement is granted for the purpose of construction and maintenance of a private well. Reserves "A" and "D" are platted for landscaping and entry monuments. Reserve "B" is platted for construction and maintenance of public utilities, drainage, sidewalks, landscaping, earth berms, entry monuments, and walls. Reserves "C" and "E" are platted for drainage, entry monuments, earth berms, waterfall fountains, lakes, gazebos, lighting, landscaping, and sidewalks. All abutters right of access to or from the South line of 13th Street North over and across the North line of Reserve "E", WOODCREST ADDITION, are hereby granted to the City of Wichita.

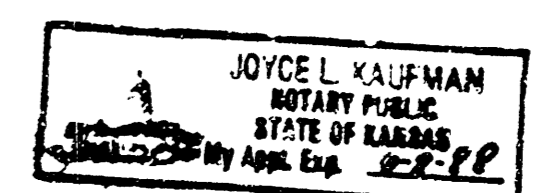
LAKEPOINT COMPANY, a Kansas general partnership by Ritchie Associates, Inc., managing partner of said partnership

By: *Jack D. Ritchie*
 Jack D. Ritchie, President

STATE OF KANSAS
 SEDGWICK COUNTY

Be it remembered that on this 24th day of December, 1986, before me a Notary Public in and for said State and County, came Ritchie Associates, Inc., by Jack D. Ritchie, President, on behalf of Lakepoint Company, a Kansas general partnership, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Joyce L. Kaufman
 Joyce L. Kaufman
 Notary Public
 My Appointment Expires: June 8, 1988



This plat of "WOODCREST ADDITION" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 24th day of November, 1986.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

John Terry Moore
 John Terry Moore, Chairman
Michael E. Lindebak
 Michael E. Lindebak, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 27th day of January, 1987.

Tony Casado
 Tony Casado, Mayor
Dale E. Dea
 Dale E. Dea, Deputy City Clerk

Entered on transfer record this 20th day of January, 1987.

Don Wright
 Don Wright, County Clerk

STATE OF KANSAS
 SS:
 SEDGWICK COUNTY

This is to certify that this instrument was filed for record in the Register of Deeds office this 20th day of January, 1987.

Pat Kettler
 Pat Kettler, Register of Deeds
Ed Mesa
 Ed Mesa, Deputy

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