

PRIVATE STORM SEWER PLANS FOR FOLIAGE 2ND ADDITION

**INDEX NO. 607861
USER CODE 306 PPS**

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

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers 208 9/24/91
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

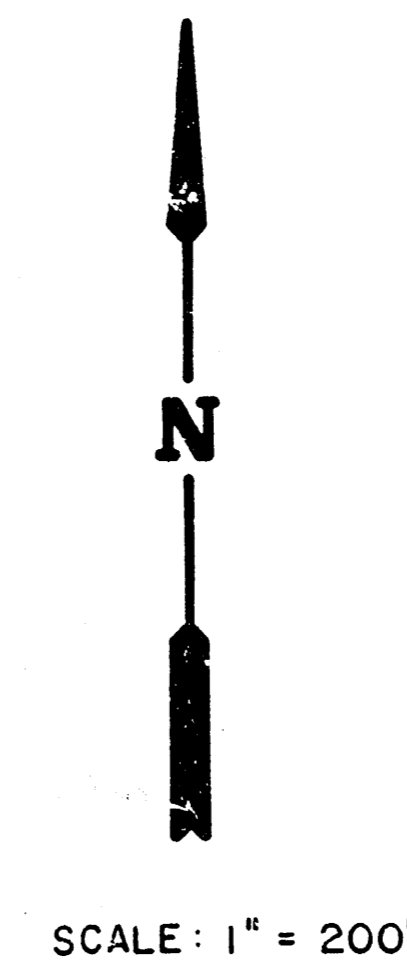
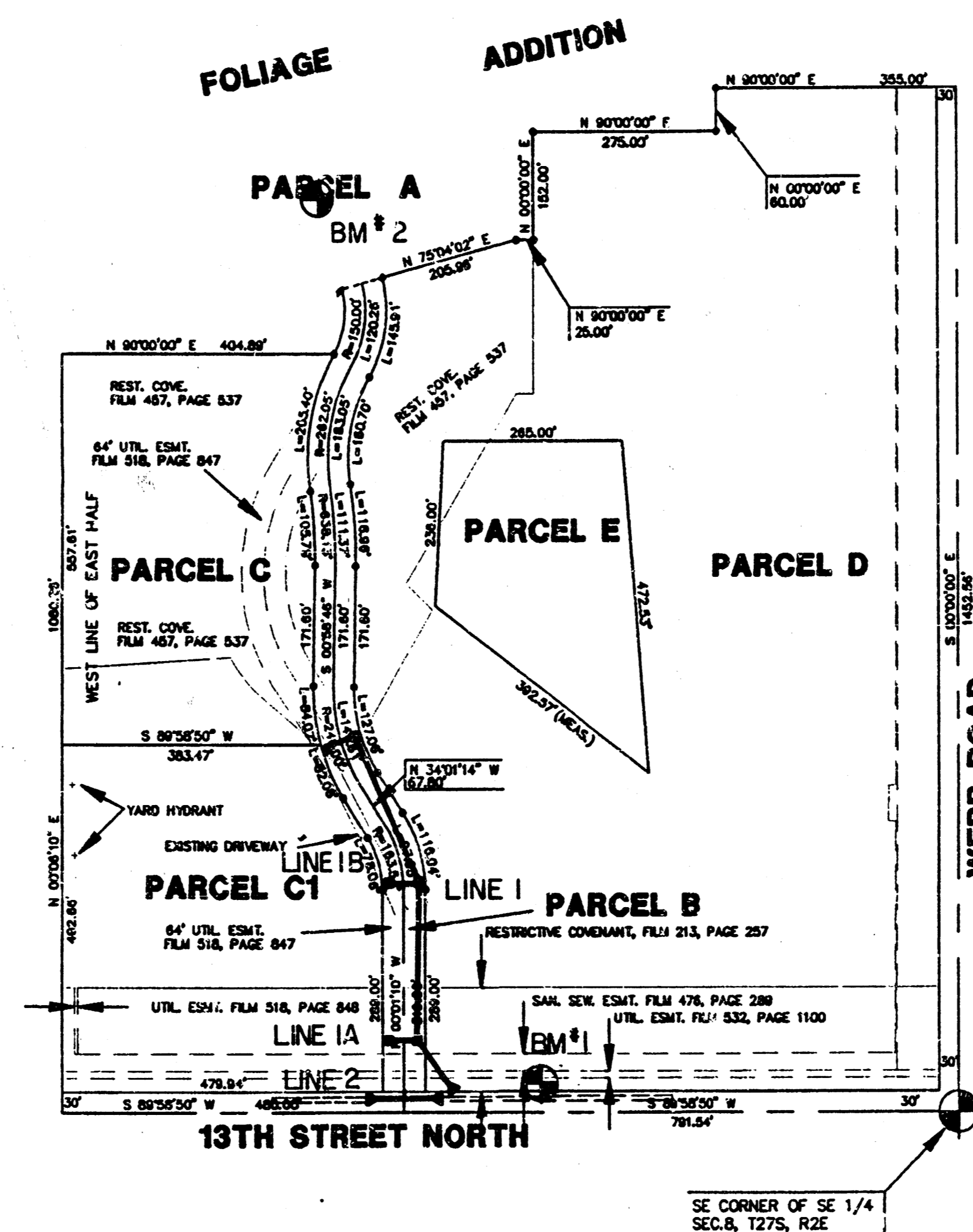
GENERAL NOTES

1. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
3. EXISTING UTILITIES AND THEIR LOCATIONS, 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 PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
4. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	1-800-344-7233 OR 687-2470 (LOCAL WICHITA)
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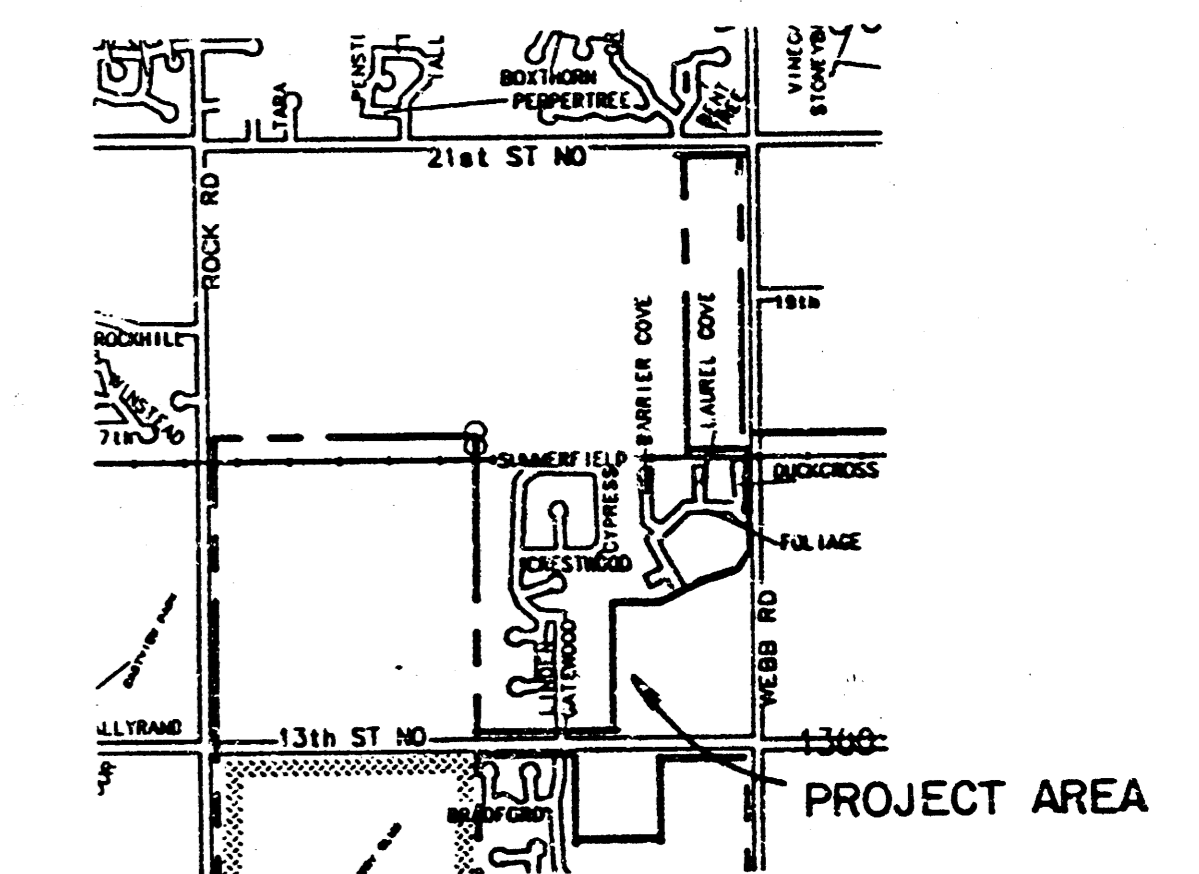
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-571-2115
CABLEVISION	262-4270 OR 263-2061
KPL GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER MAINTENANCE	268-4908
ARPLA GAS COMPANY	942-8350 OR 263-8161
5. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
6. THE TOPS OF INLETS AND MANHOLES 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 AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS. INLET DEPRESSIONS NEED TO BE TIED TO CURB, GUTTER, AND PAVING.
7. TREES WITHIN THE PROJECT LIMITS ARE TO BE MOVED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING TREES WITH THE OWNER. ANY TREES NOT REMOVED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL REMOVE ALL ITEMS WITHIN CONSTRUCTION LIMITS AND DISPOSE OF ACCORDING TO SPECIFICATIONS. COST SHALL BE PAID AS SITE PREPARATION.
9. CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED GROUND WITHIN PUBLIC RIGHT OF WAY. COST SHALL BE PAID AS SITE RESTORATION.



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN/PROFILE - LINE 1
3	PLAN/PROFILE - LINE 1A, 1B
4	PLAN/PROFILE - LINE 2
5-6	CURB INLET DETAILS



LOCATION MAP

BENCH MARKS

- BM #1 SPIKE IN WEST SIDE POWER POLE, 18' +/- EAST OF PRIVATE ENTRANCE ON 13TH STREET NORTH.
ELEV. = 189.00
- BM #2 * □ CUT ON SOUTH END OF SOUTH-WEST RETURN OF FOLIAGE DRIVE AND FOLIAGE COVE.
ELEV. = 192.41

*Booked
12/91
MCH*

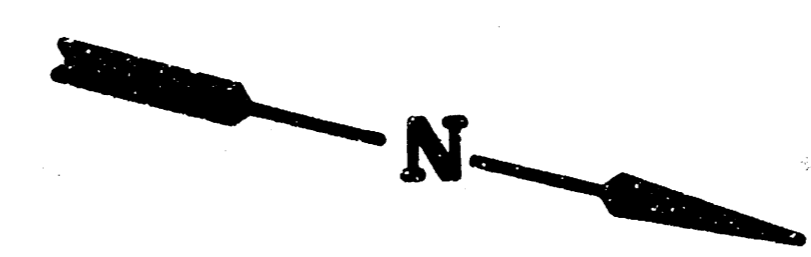
	AS BUILT 10-2-91	Design: GJA Drawn by: DPR Checked by: DDS Date: AUG. 1991 Job No.
	FOLIAGE 2ND ADDITION	
PRIVATE		
STORM SEWER PLANS		
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		Sheet 1 of 6
63F-5566		

MKEC Proj. No. 94-42-100 D

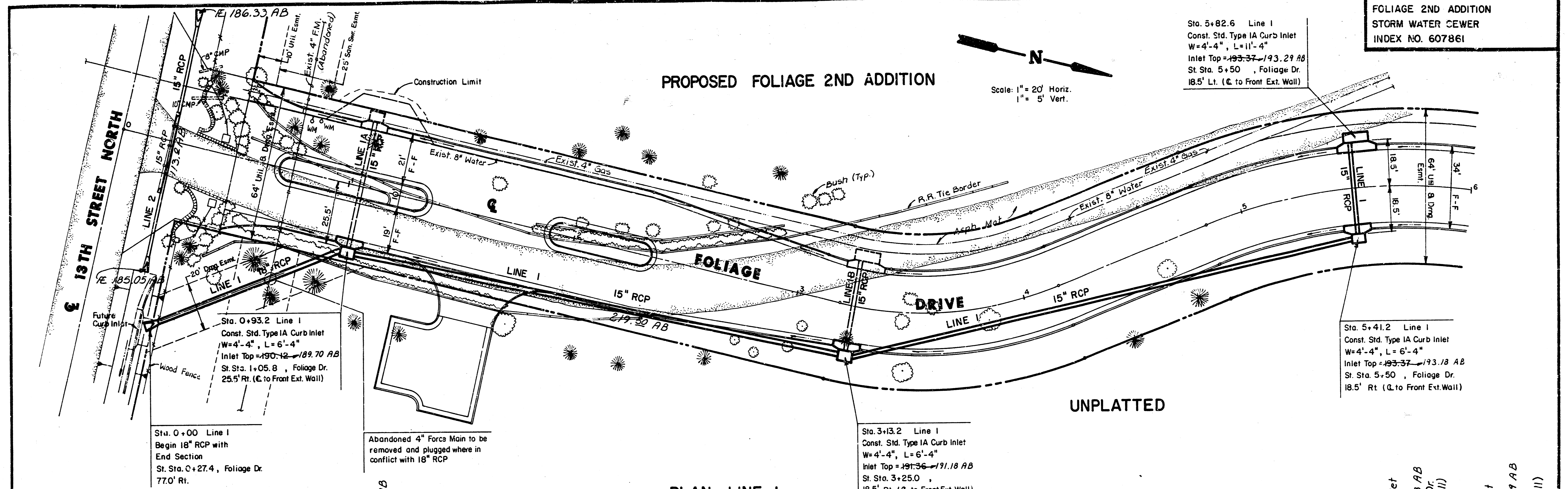
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FOLIAGE 2ND ADDITION
STORM WATER CEWER
INDEX NO. 607861

PROPOSED FOLIAGE 2ND ADDITION

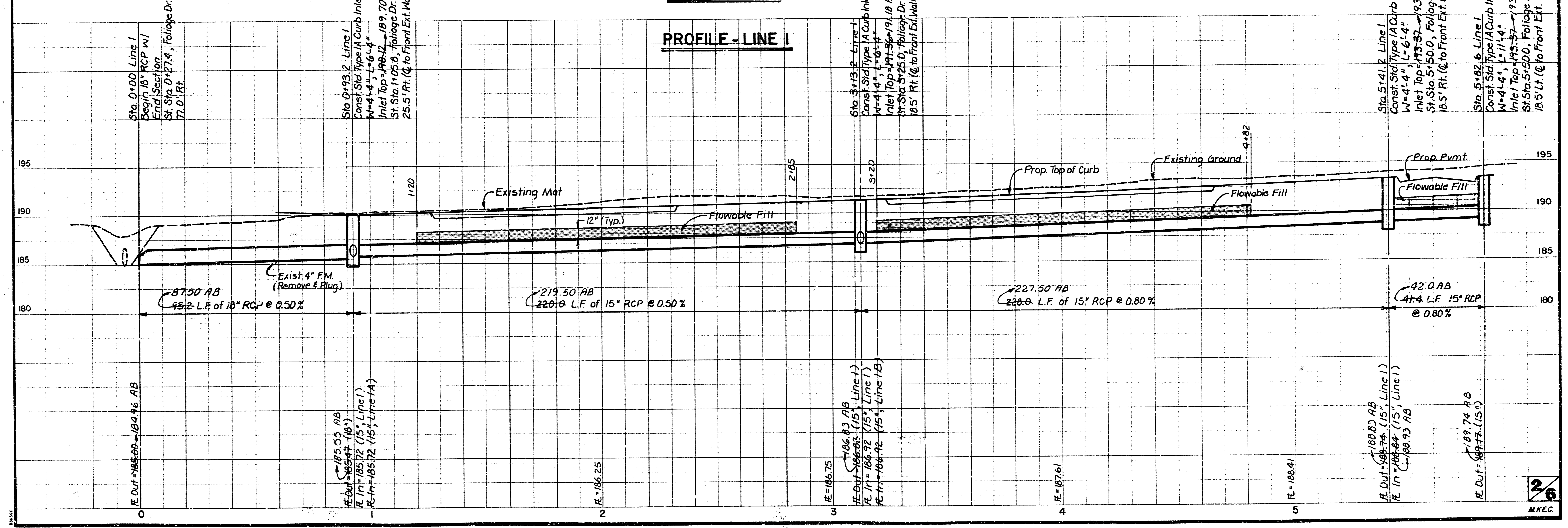


Scale: 1" = 20' Horiz.
1" = 5' Vert.



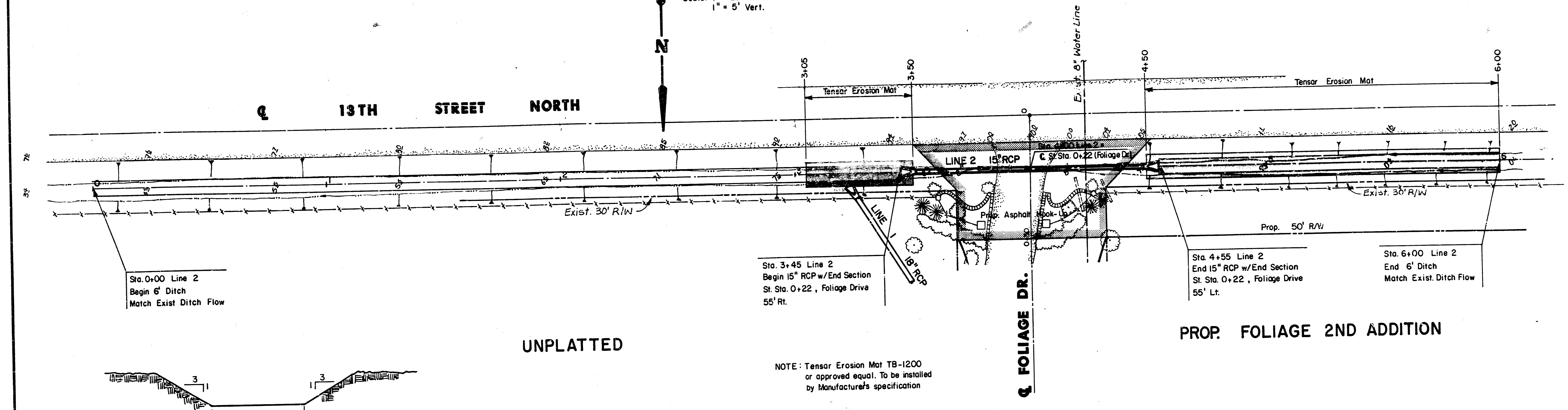
PLAN - LINE 1

PROFILE - LINE 1



FILMED FROM THE BEST AVAILABLE COPY

Scale: 1" = 20' Horiz.
1" = 5' Vert.

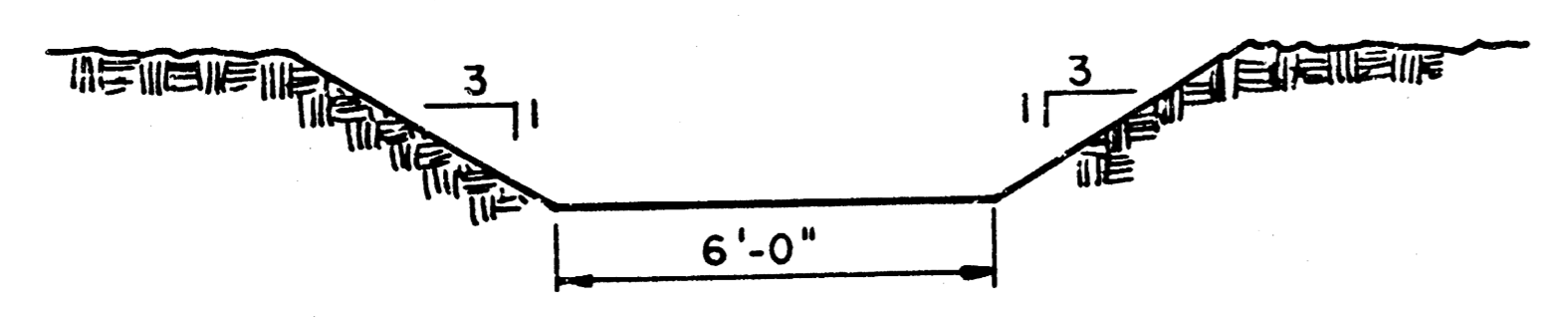


Sta. 0+00 Line 2
Begin 6' Ditch
Match Exist Ditch Flow

Sta. 3+45 Line 2
Begin 15\"/>

Sta. 4+55 Line 2
End 15\"/>

Sta. 6+00 Line 2
End 6' Ditch
Match Exist Ditch Flow



TYPICAL DITCH CROSS-SECTION

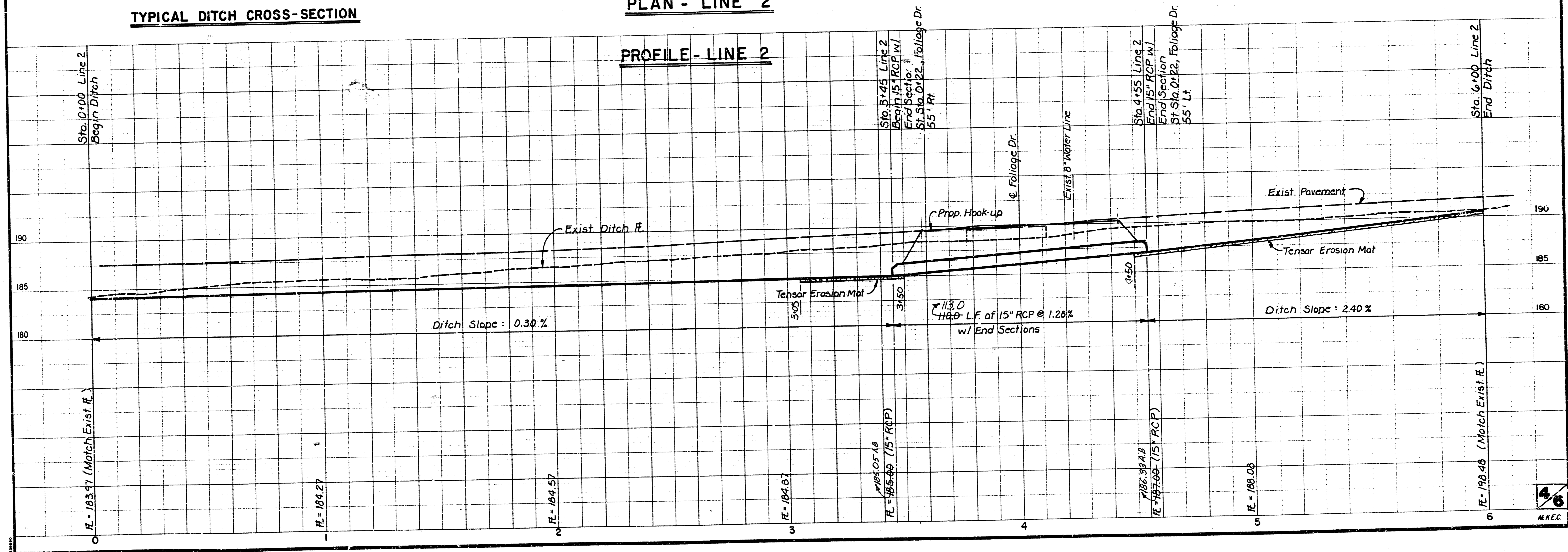
UNPLATTED

PROP. FOLIAGE 2ND ADDITION

NOTE: Tensor Erosion Mat TB-1200
or approved equal. To be installed
by Manufacturer's specification

PLAN - LINE 2

PROFILE - LINE 2



Ditch Slope: 0.30 %

Ditch Slope: 2.40 %

113.0
H&D L.F. of 15\"/>

EL = 183.97 (Match Exist. E.)

EL = 184.27

EL = 184.57

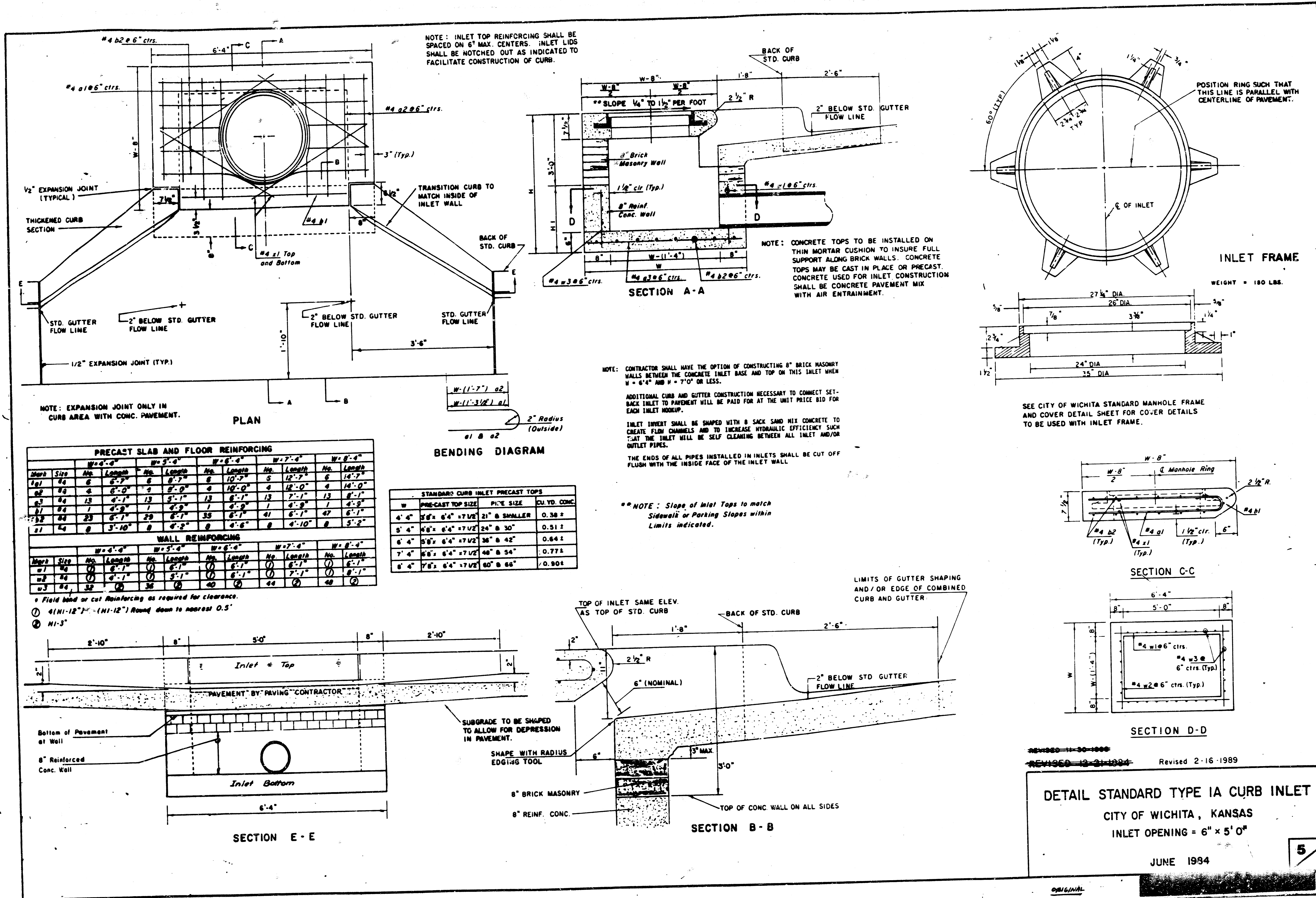
EL = 184.87

EL = 185.00 (15\"/>

EL = 187.00 (15\"/>

EL = 188.08

EL = 198.46 (Match Exist. E.)



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: 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 WITH AIR ENTRAINMENT.

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.

NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.

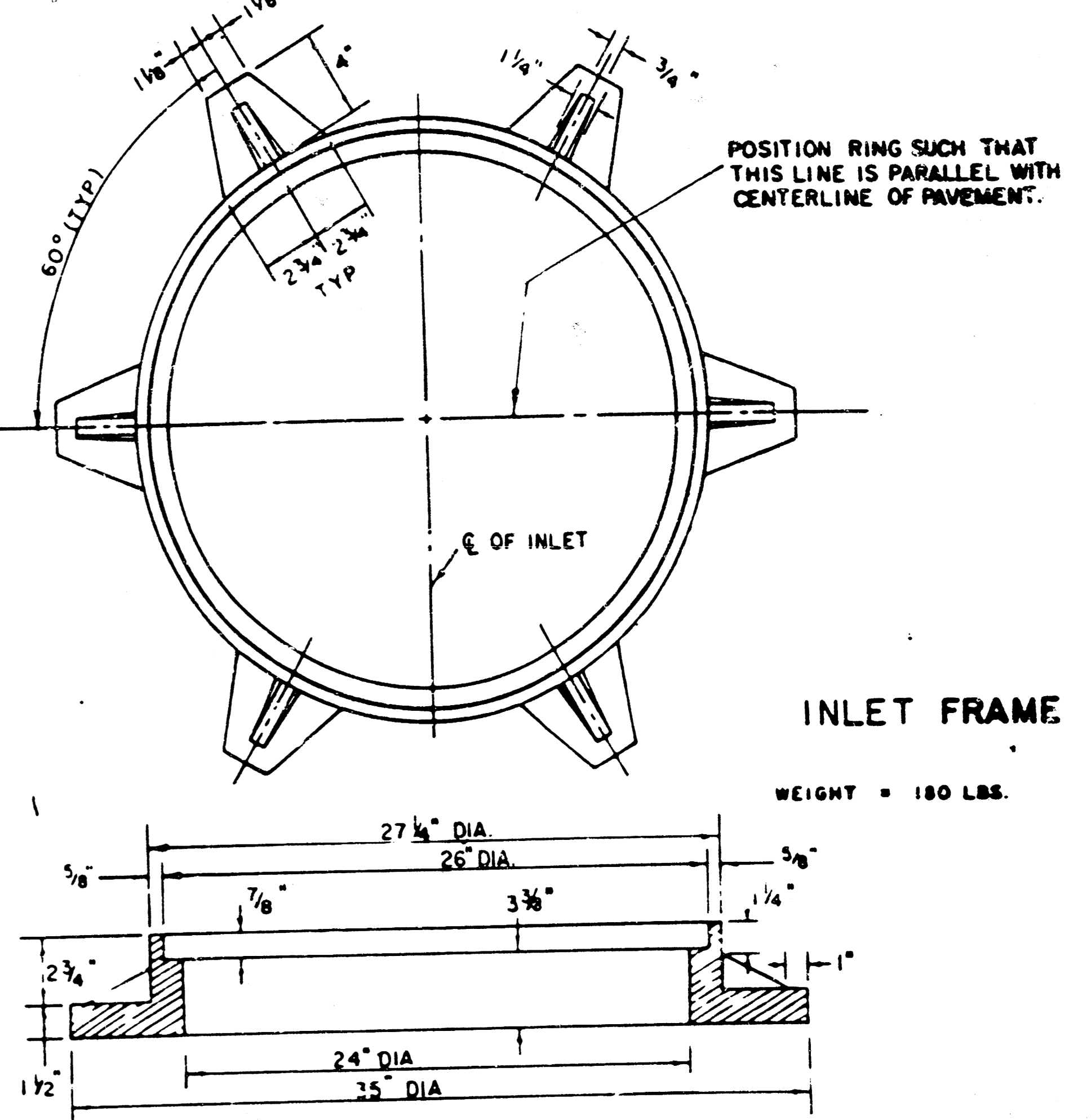
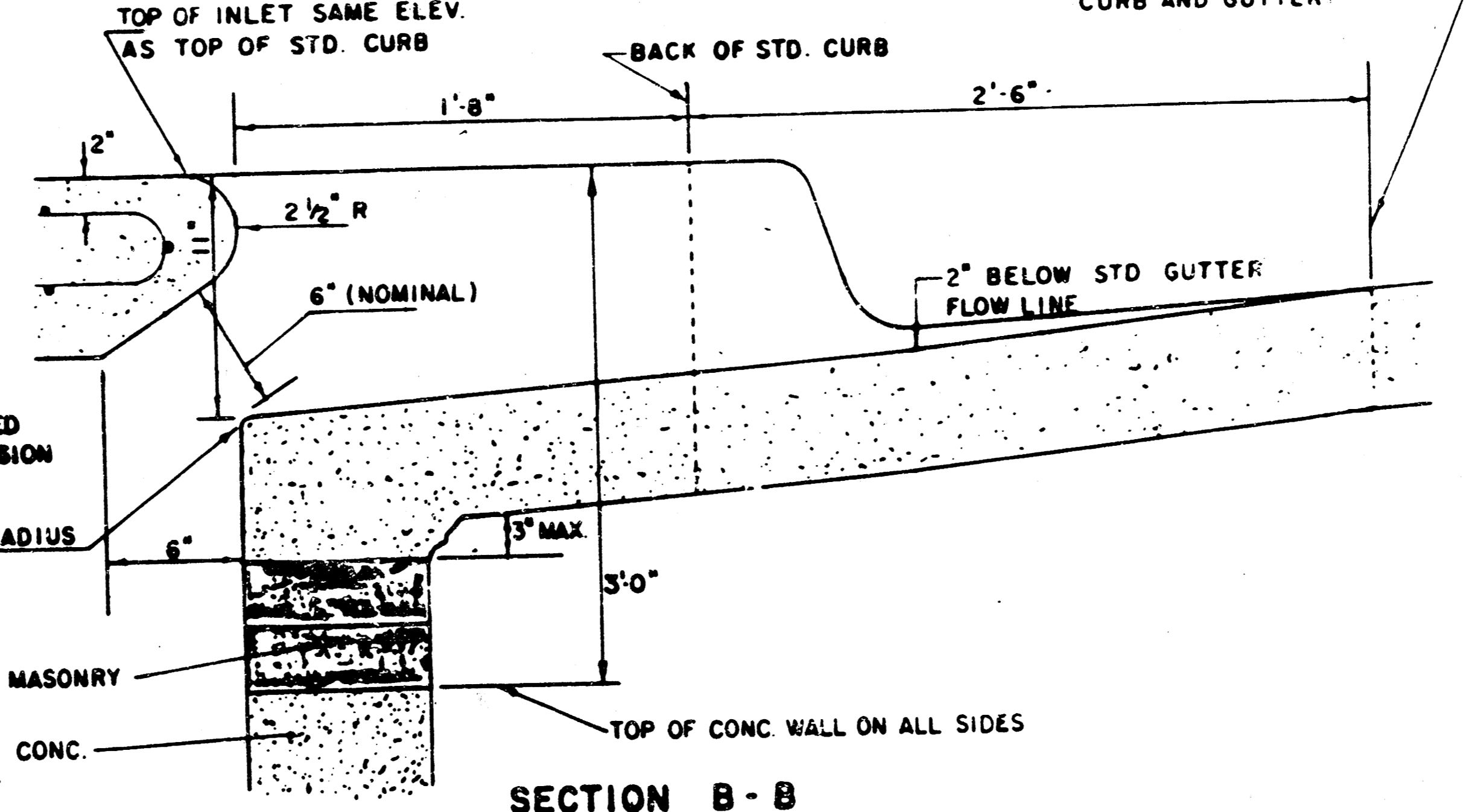
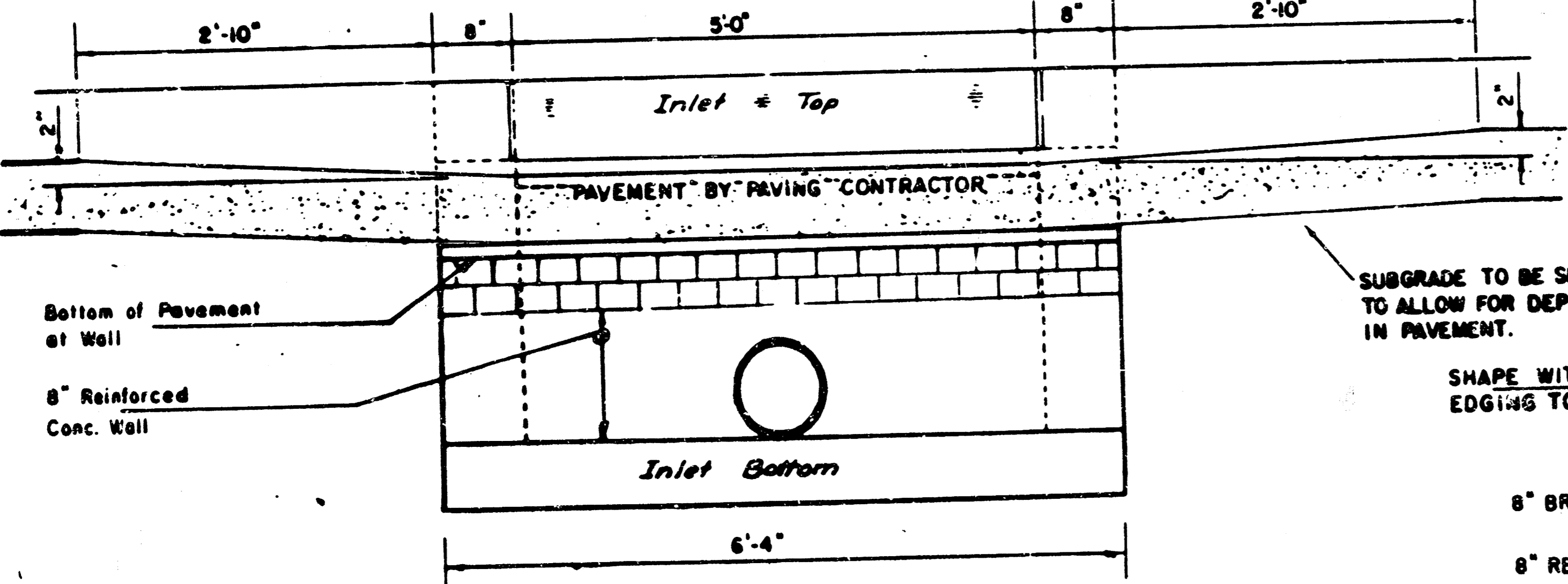
PRECAST SLAB AND FLOOR REINFORCING

Slab	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
1a1	8x8	6	6'-2"	8	8'-7"	8	10'-7"	5	12'-7"	6	14'-7"
1a2	8x8	6	6'-0"	8	8'-0"	8	10'-0"	4	12'-0"	4	14'-0"
1a3	8x8	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
1a4	8x8	7	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
1a5	8x8	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
1a6	8x8	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

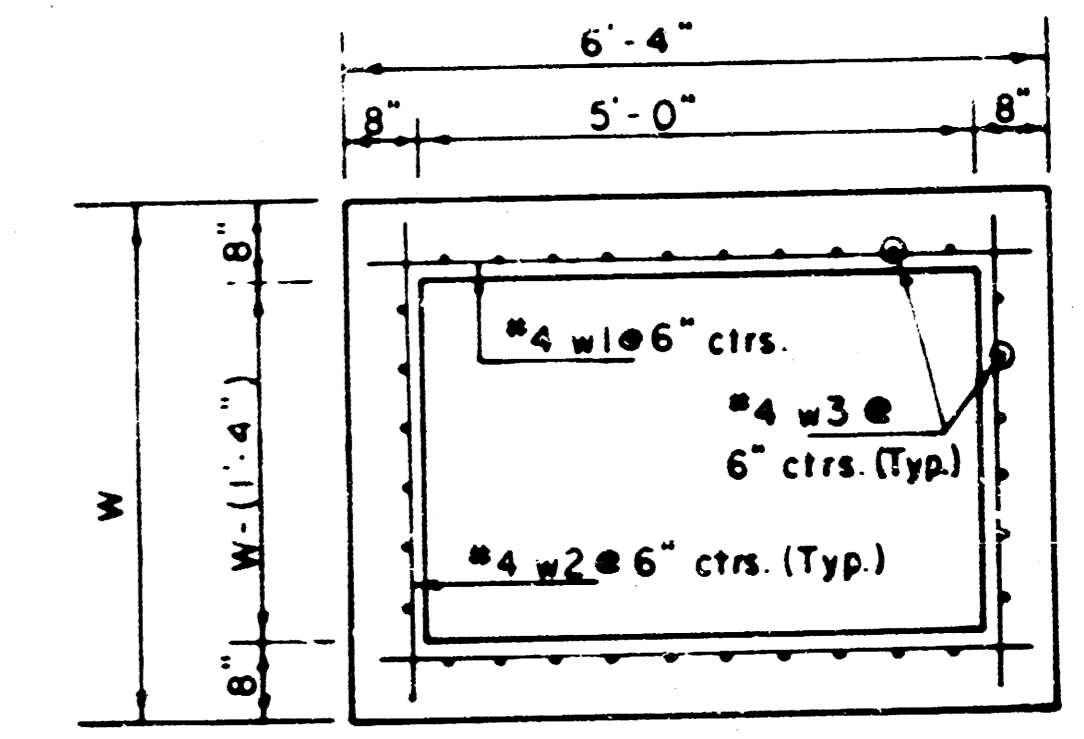
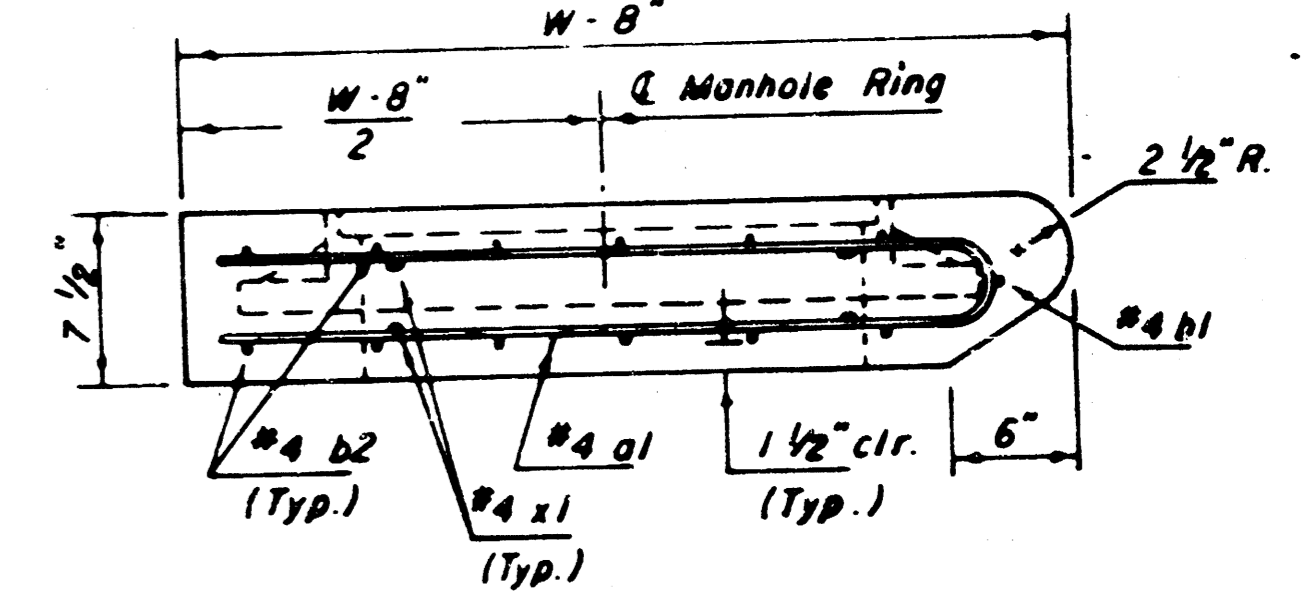
WALL REINFORCING

Slab	Size	No.	Length	No.	Length	No.	Length	No.	Length
1a1	8x8	1	6'-7"	1	6'-7"	1	6'-7"	1	6'-7"
1a2	8x8	1	4'-7"	1	5'-7"	1	6'-7"	1	7'-7"
1a3	8x8	32	6'-1"	36	6'-1"	40	6'-1"	44	6'-1"

* Field bend or cut Reinforcing as required for clearance.
 ① 4(N1-12") - (N1-12") Round down to nearest 0.5"
 ② N1-3"



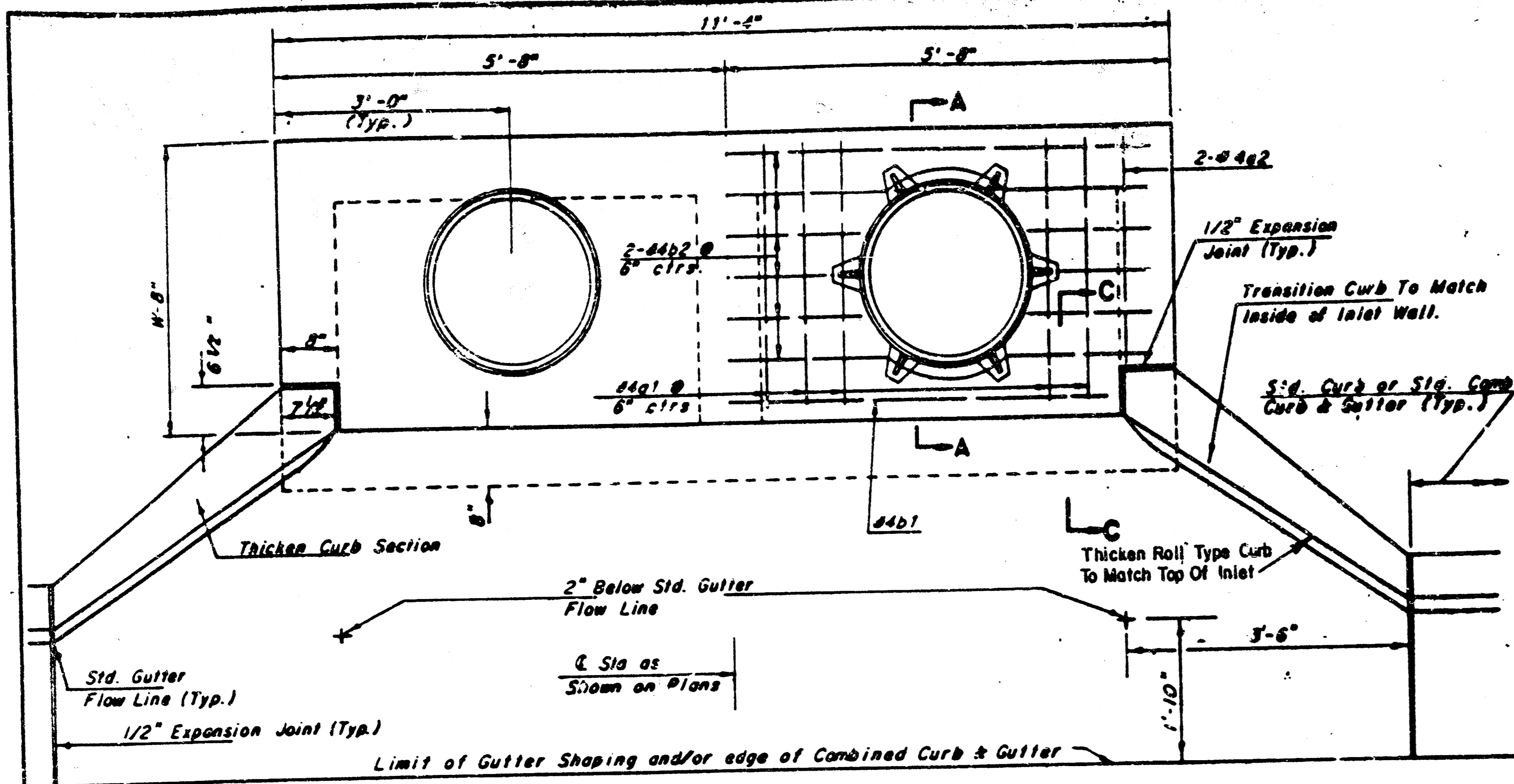
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



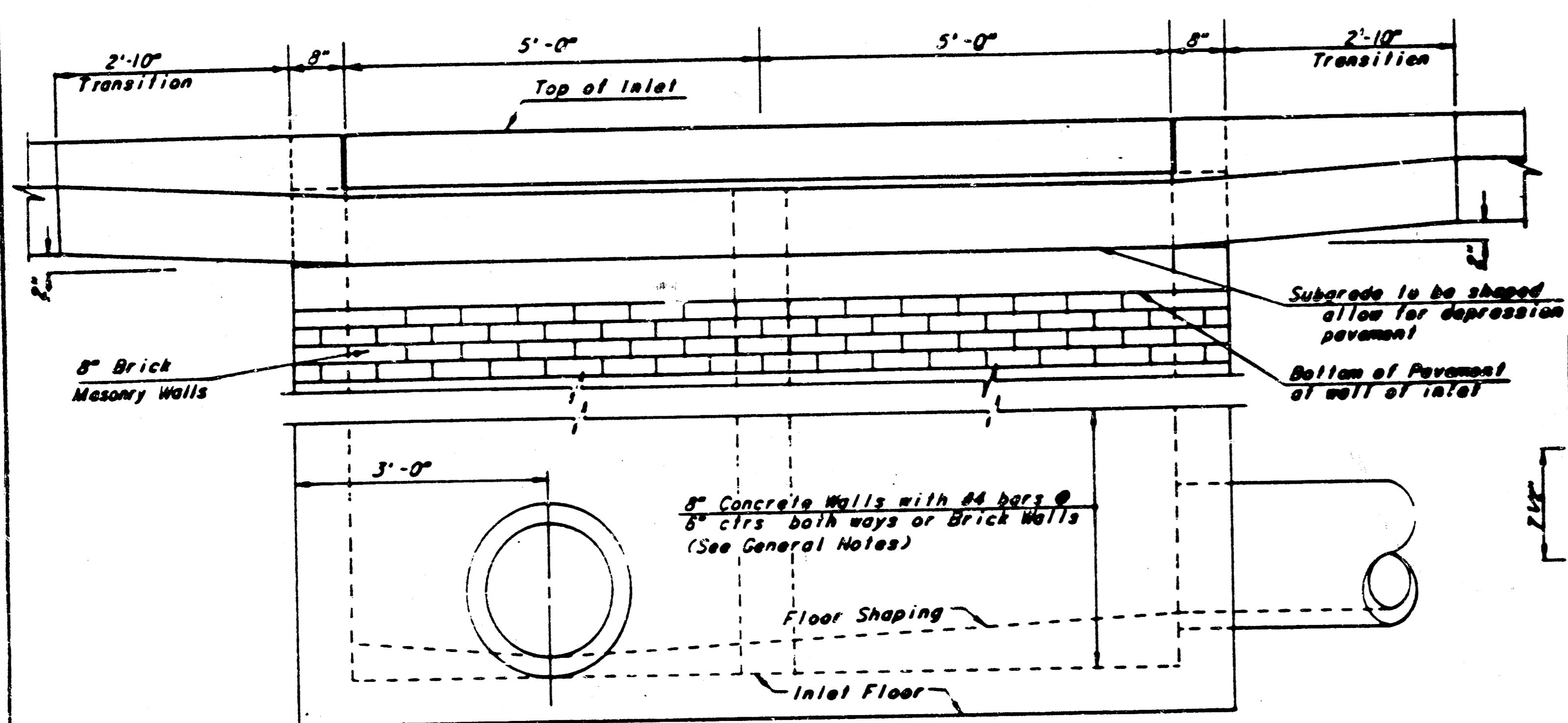
REVISIONS: 11-30-1988
 REVISIONS: 12-31-1984
 Revised 2-16-1989

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

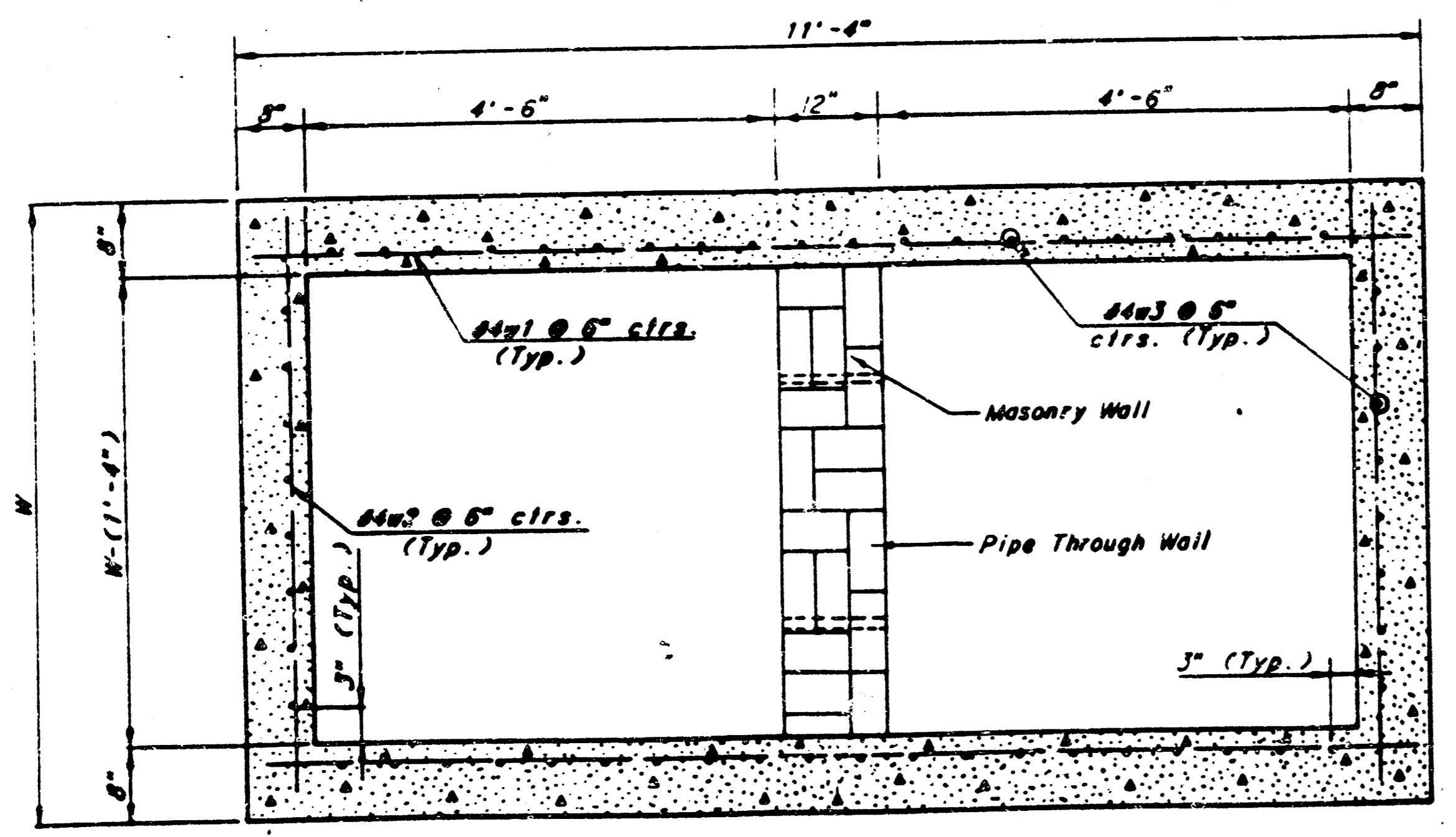
JUNE 1994



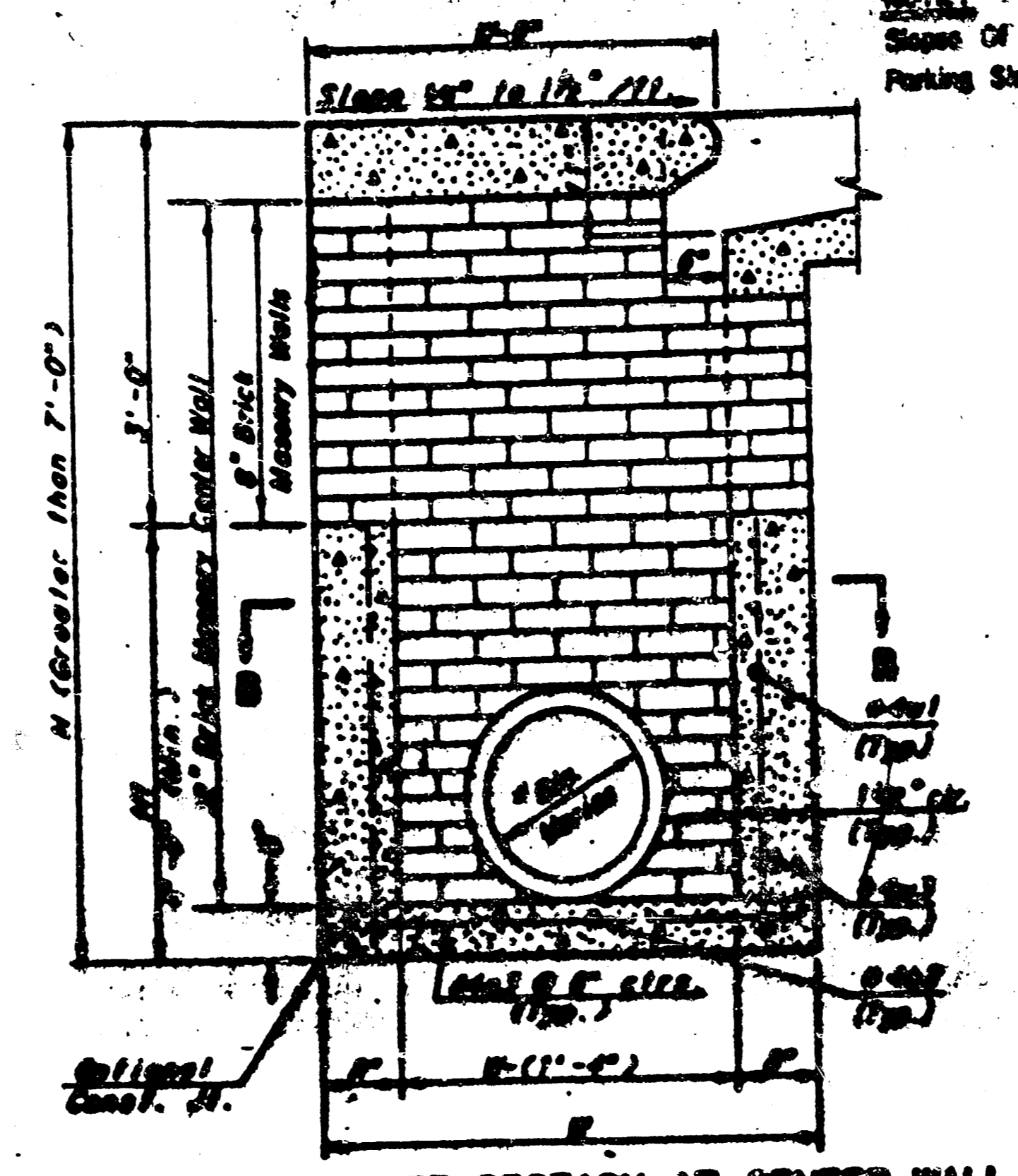
SLAB REINFORCING NOT SHOWN SHOWING SLAB REINFORCING NOTE Expansion Joint only in Curb Area with Conc. Pavement.



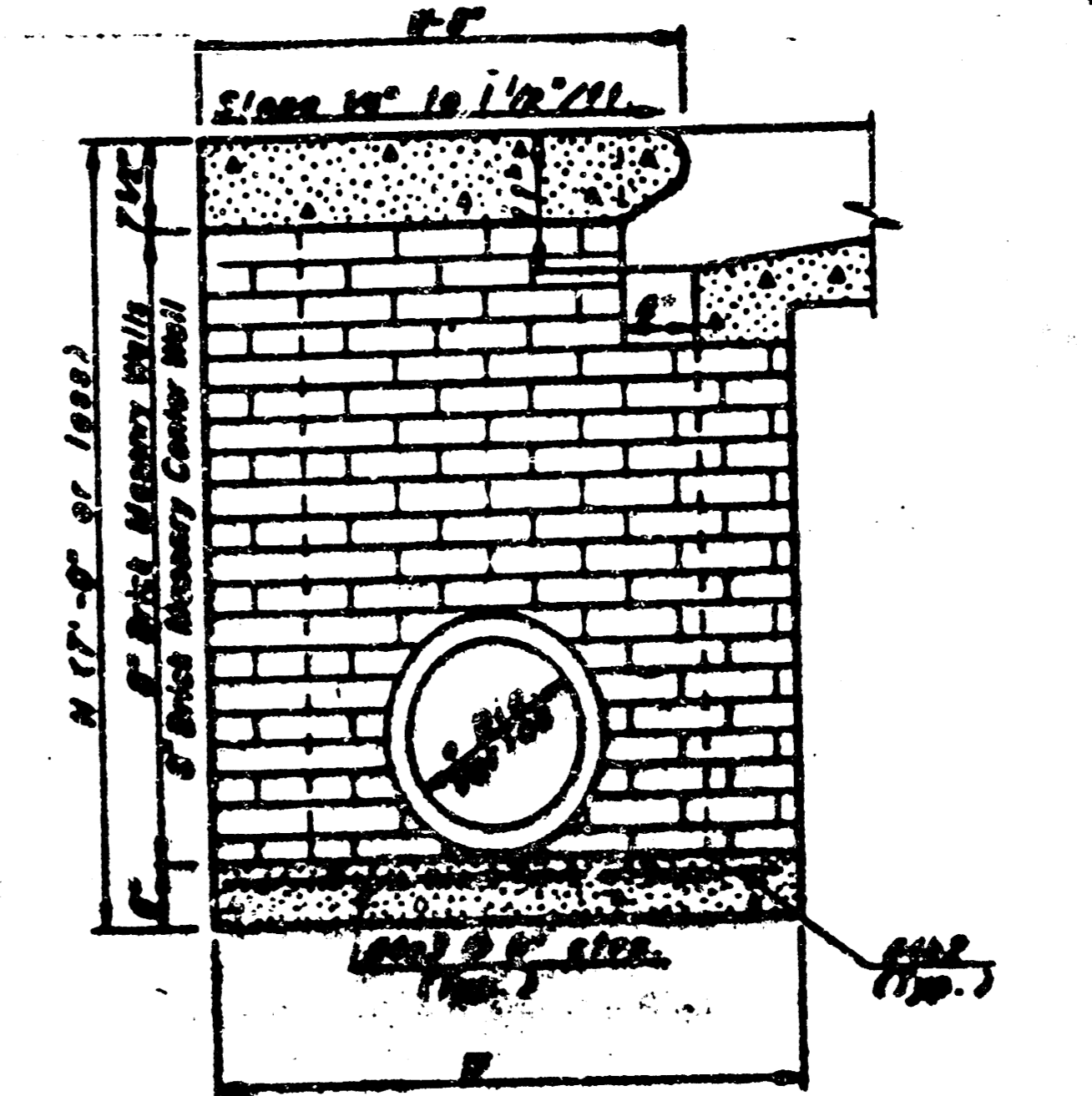
ELEVATION



SECTION B-B

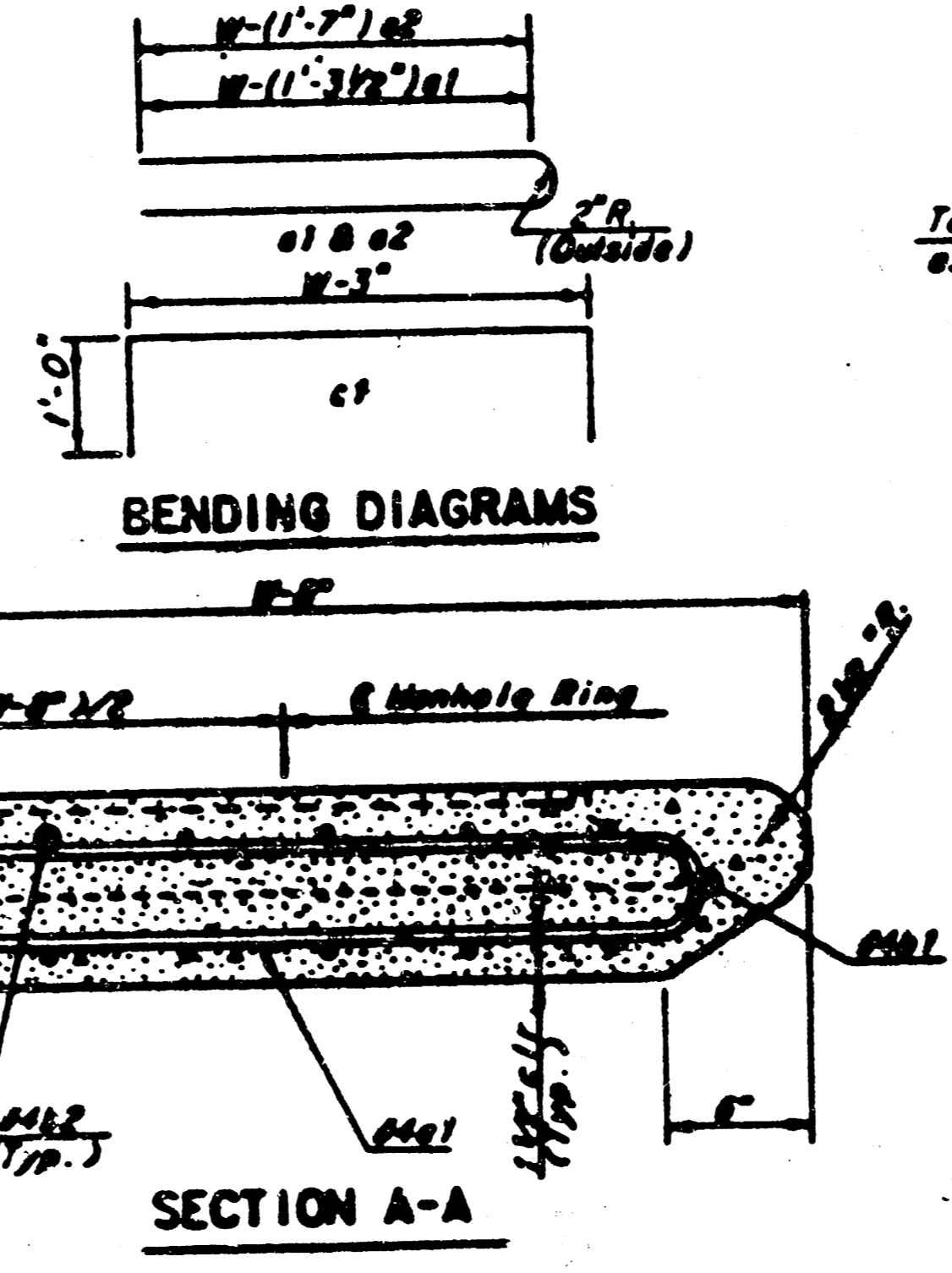


TYPICAL INLET SECTION AT CENTER WALL (REINFORCED CONCRETE WALLS)



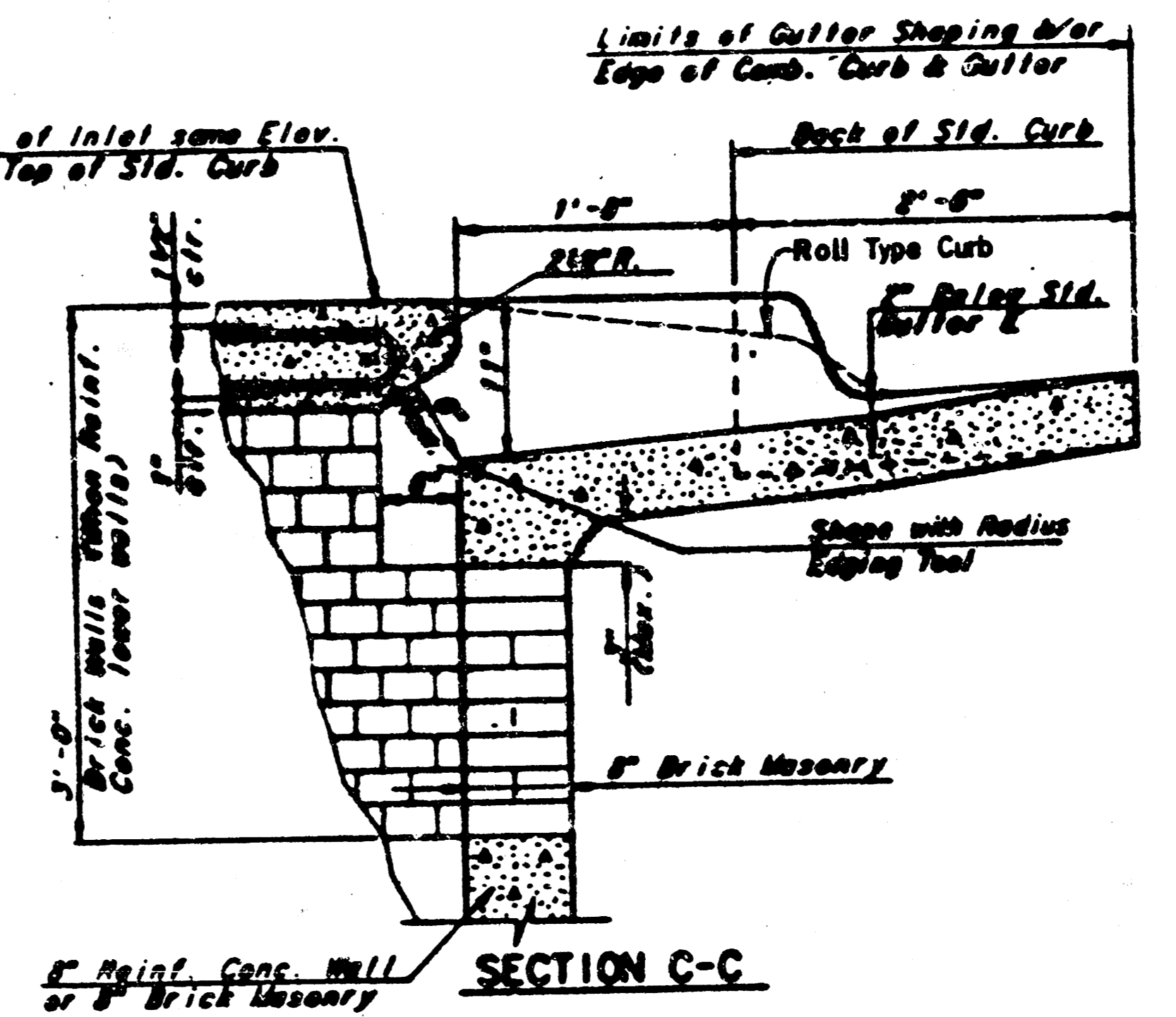
TYPICAL INLET SECTION AT CENTER WALL (MASONRY WALLS)

A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II below.



BENDING DIAGRAMS

SECTION A-A



SECTION C-C

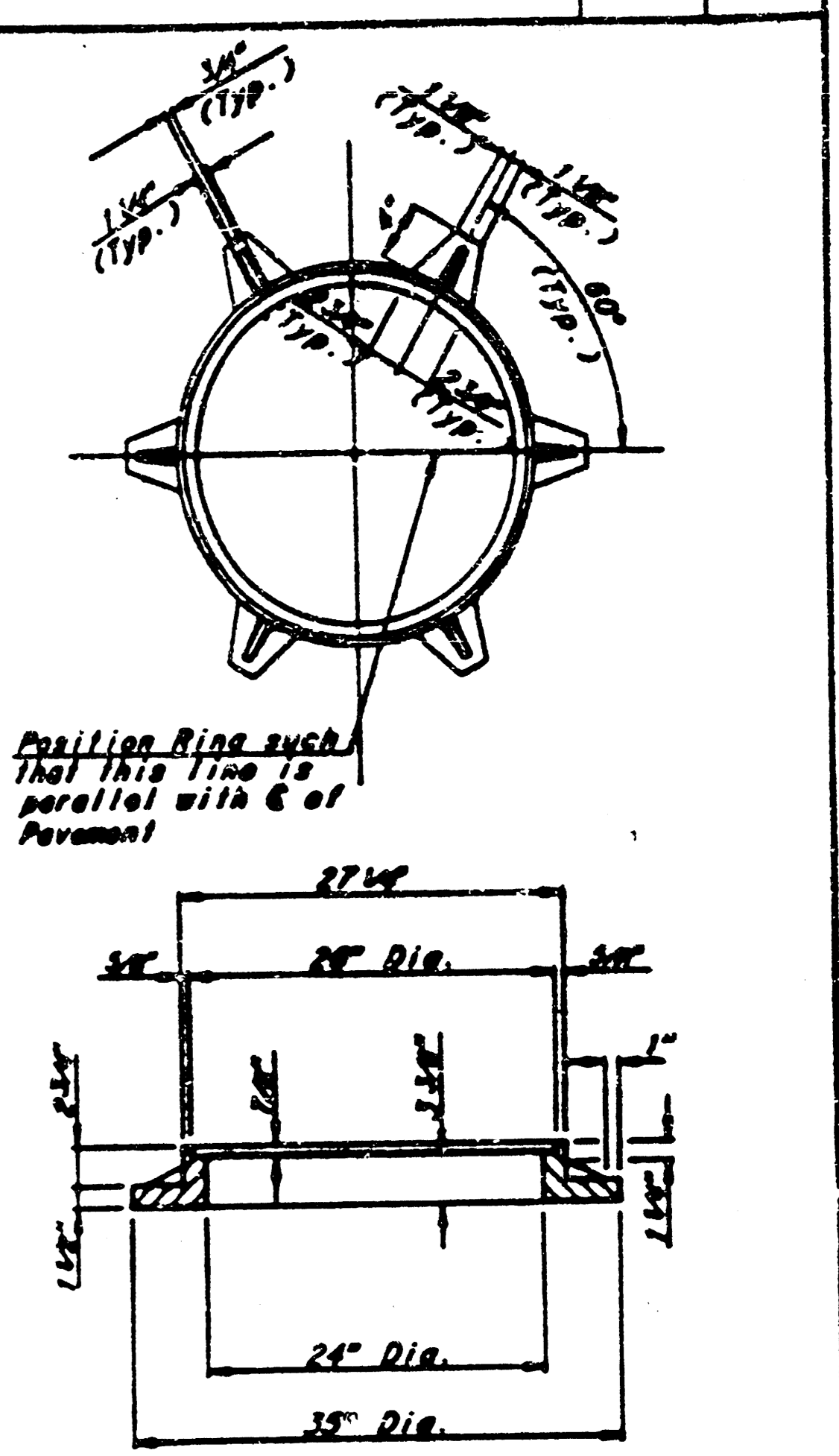
SLAB AND FLOOR REINFORCING											
MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	8'-7 1/2"	13	8'-7 1/2"	13	10'-7 1/2"	13	12'-7 1/2"	13	14'-7 1/2"
a2	#4	2	8'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
b1	#4	1	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	8'-1"	4	7'-1"	4	8'-1"	4	7'-1"	4	10'-1"
w1	#4	0	11'-1"	0	11'-1"	0	11'-1"	0	11'-1"	0	11'-1"
w2	#4	0	4'-1"	0	5'-1"	0	6'-1"	0	7'-1"	0	8'-1"
w3	#4	0	0	0	0	0	0	0	0	0	0

Field band or cut reinforcing as required for clearance
 ① (N1-6")+(N1-8") Rounded down to nearest 0.3"
 ② 40-4(N-10") ③ N1-8"

- 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=4'-0" OR LESS AND W=7'-0" OR LESS. WHEN W IS GREATER THAN 8'-0" AND W 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 6" 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 RINGS.
 - THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

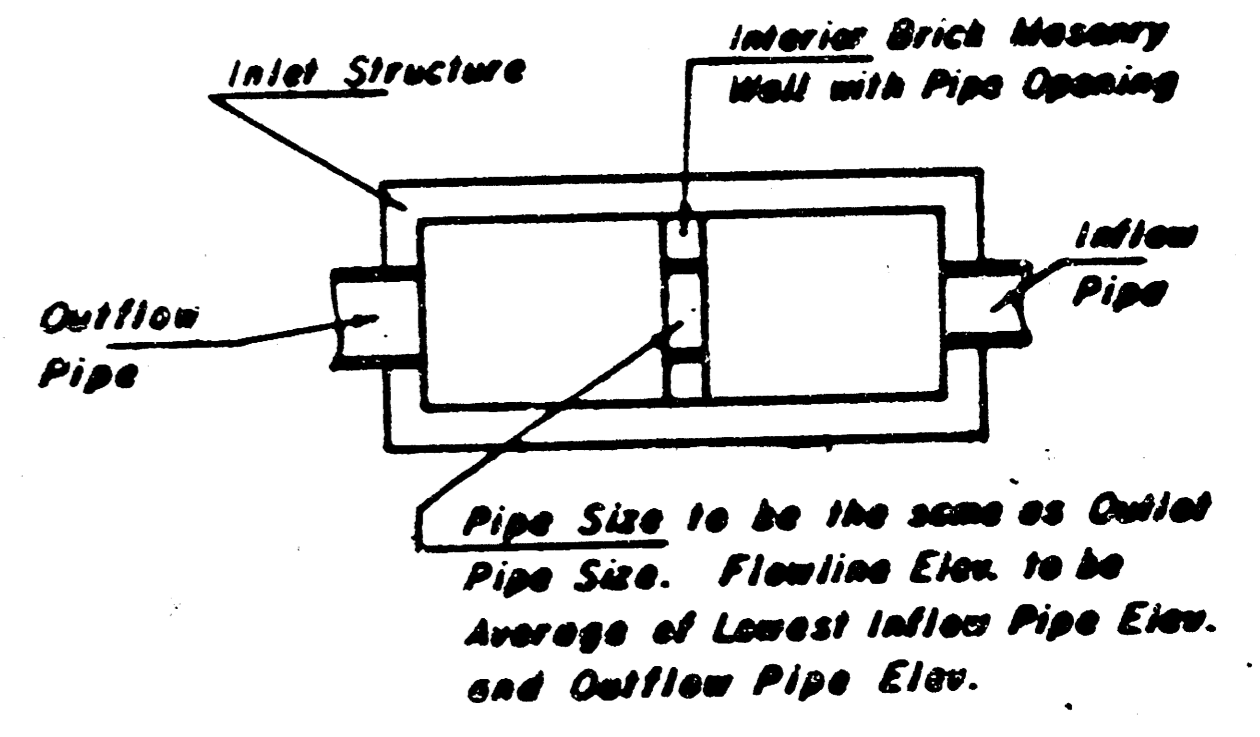
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	SIDE OR INTERIOR WALL PIPE SIZE	CU. YD. CONC.
4'-4"	3'-6" x 11'-4" x 7 1/2"	21" Ø SMALLER	0.83 ±
5'-4"	4'-6" x 11'-4" x 7 1/2"	24" Ø 30"	1.09 ±
6'-4"	5'-6" x 11'-4" x 7 1/2"	36" Ø 42"	1.33 ±
7'-4"	6'-6" x 11'-4" x 7 1/2"	48" Ø 54"	1.61 ±
8'-4"	7'-6" x 11'-4" x 7 1/2"	60" Ø 66"	1.87 ±



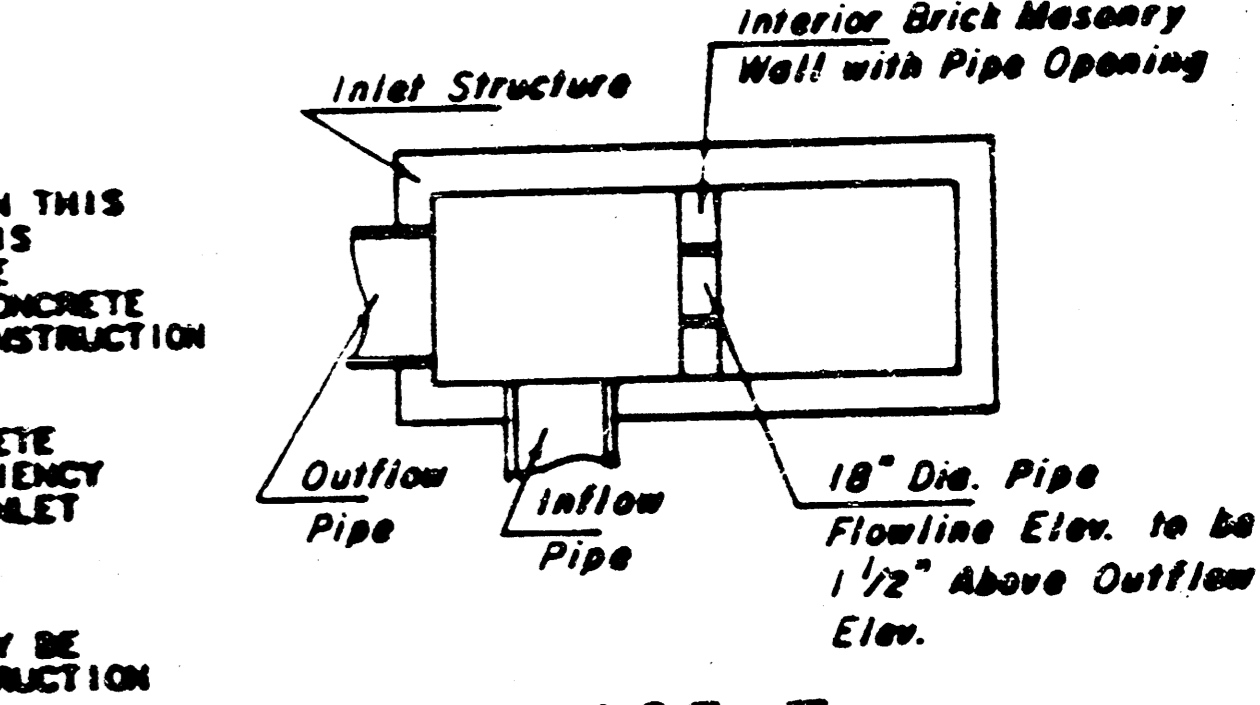
CAST IRON INLET RING

Wt. = 180 lbs.

See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be used with Inlet Frame.



CASE I



CASE II

NOTE Center Wall Pipe Size shall be as Specified in Inlet Construction Note on the Plan/Profile Sheets for these Cases not shown here.

STANDARD TYPE 1A CURB INLET
 INLET OPENING = 8" x 10'-0"

WICHITA, KANSAS
 Designed by BER, K.S., AND
 Checked by AMB
 Drawn by JSP
 Date Rev. 12-5-80