

STORM SEWER PLANS FOR WILLOWBEND FIFTH ADDITION PRIVATE PROJECT NO.

468-76-245-80001-000-000-129

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

GENERAL NOTES

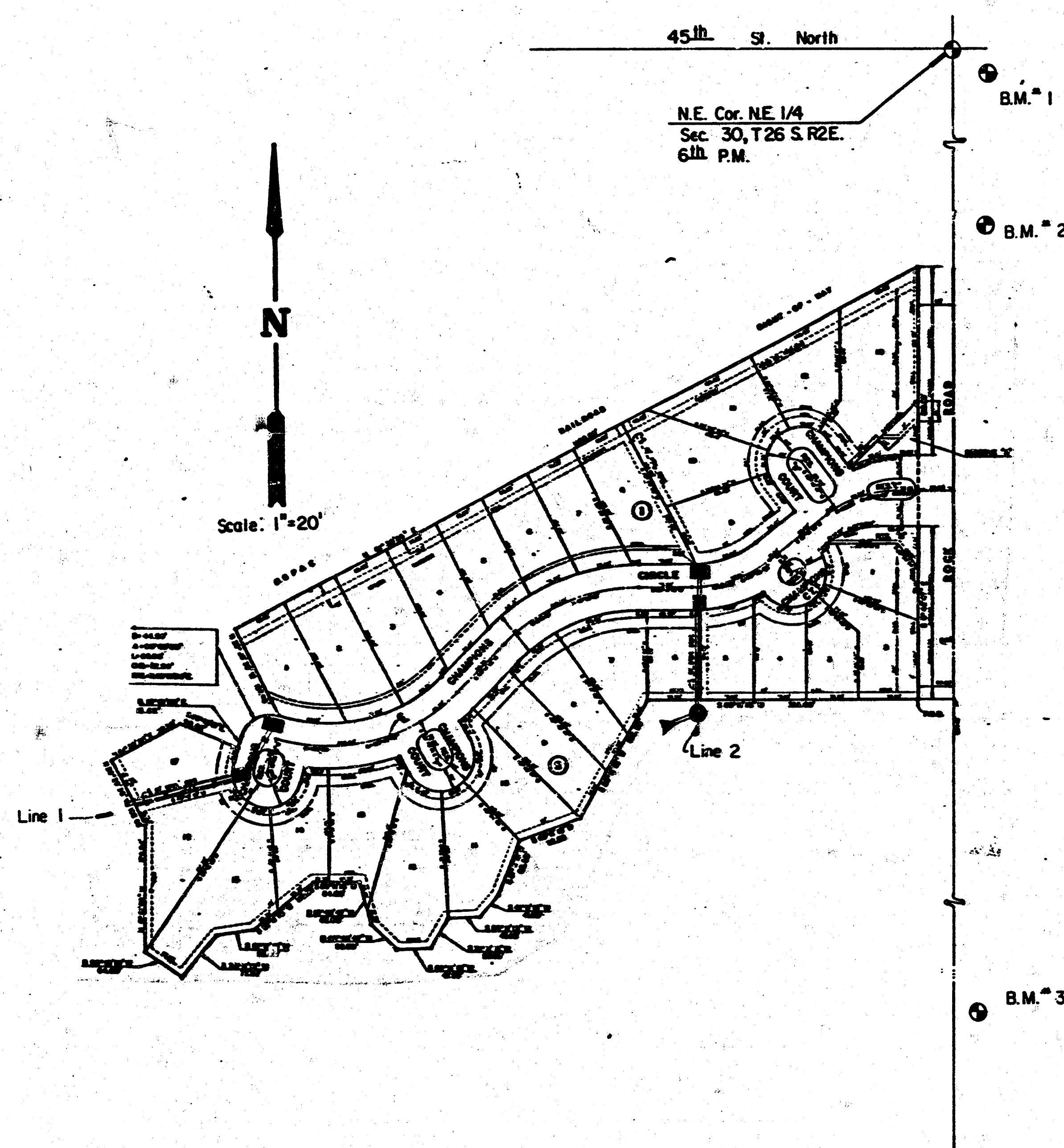
1. THE TOPS OF INLET AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY 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.
3. CONSTRUCTION OF PIPE OUTLET INTO LAKE MAY 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.
4. 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:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE COMPANY	1-316-571-2115
CABLEVISION	262-0661
KPL COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141

BENCH MARKS

- B.M. 1 R.R. Spike in W. face Power Pole at S.E. Corner 45th St. N. & Rock Rd. Elev. 197.93
- B.M. 2 Top of Bolt in Corner Fence Post at S.E. Corner R.R. RDM and Rock Rd. Elev. 196.16
- B.M. #3 = $\square$ cut on NE corner of Big Box under Rock Road + 900' E of E Quarter corner section 30, Township 26 South, Range 2 East. Elev. = 186.99



INDEX TO DRAWINGS

Sheet No.	Description
1	Title Sheet
2	Plan & Profile Line 1
3	Plan & Profile Line 2
4-5	Type "A" Curb Inlet Details
6	Type "I" Manhole Detail
7	Final Plot

NOTE TO CONTRACTOR

This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will pay the City of Wichita for all costs of plan review, inspection and booking per contract.

APPROVED AS NOTED

By CITY ENGINEER OF WICHITA

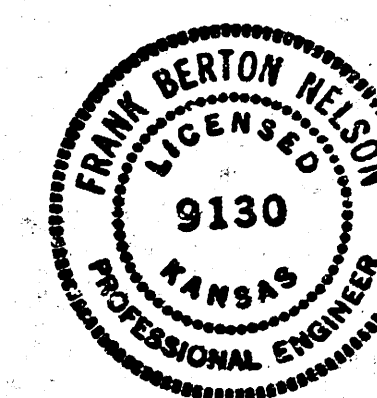
Sanitary Sewers _____

Storm Sewers URH 10/18/87

Driveway Approaches _____

Water Mains _____

Paving _____



**WILLOWBEND FIFTH
STORM WATER SEWER
PLANS**

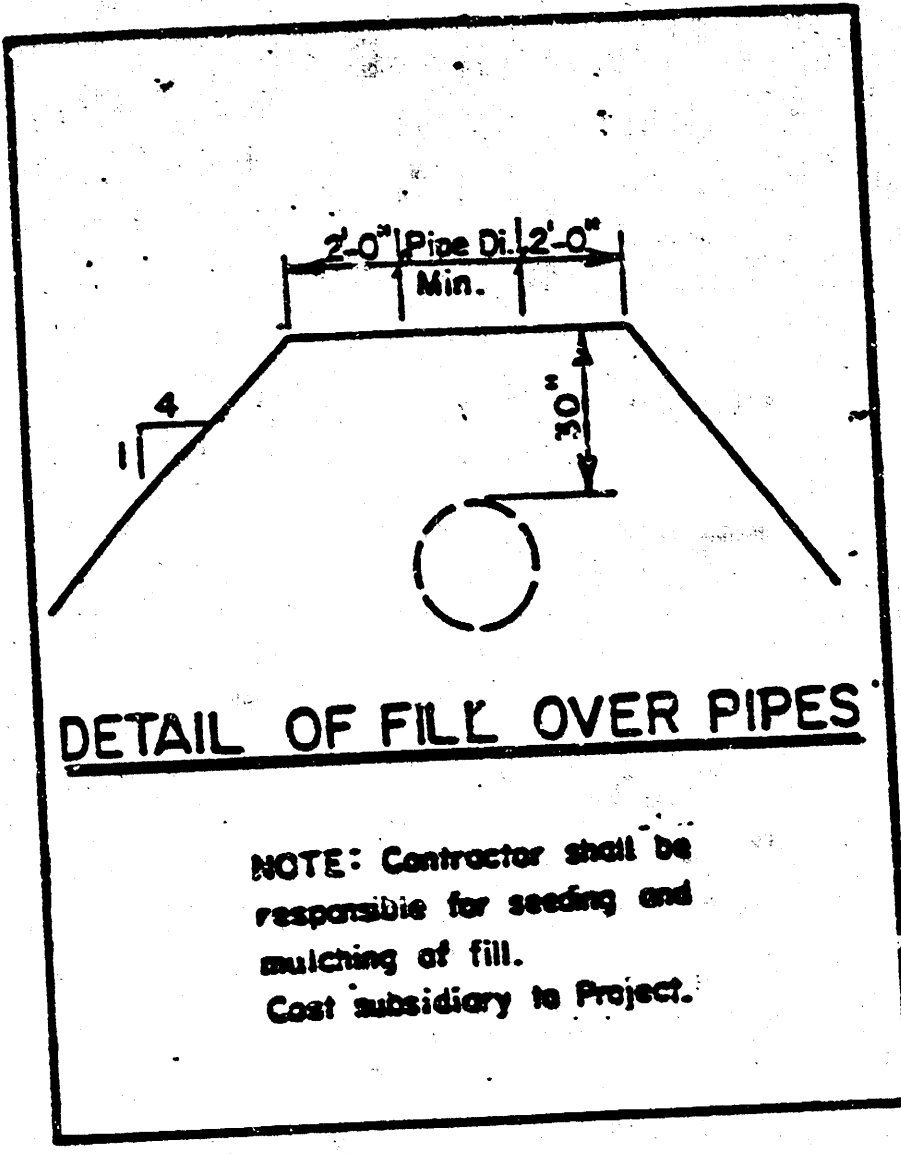
MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226

682-6561

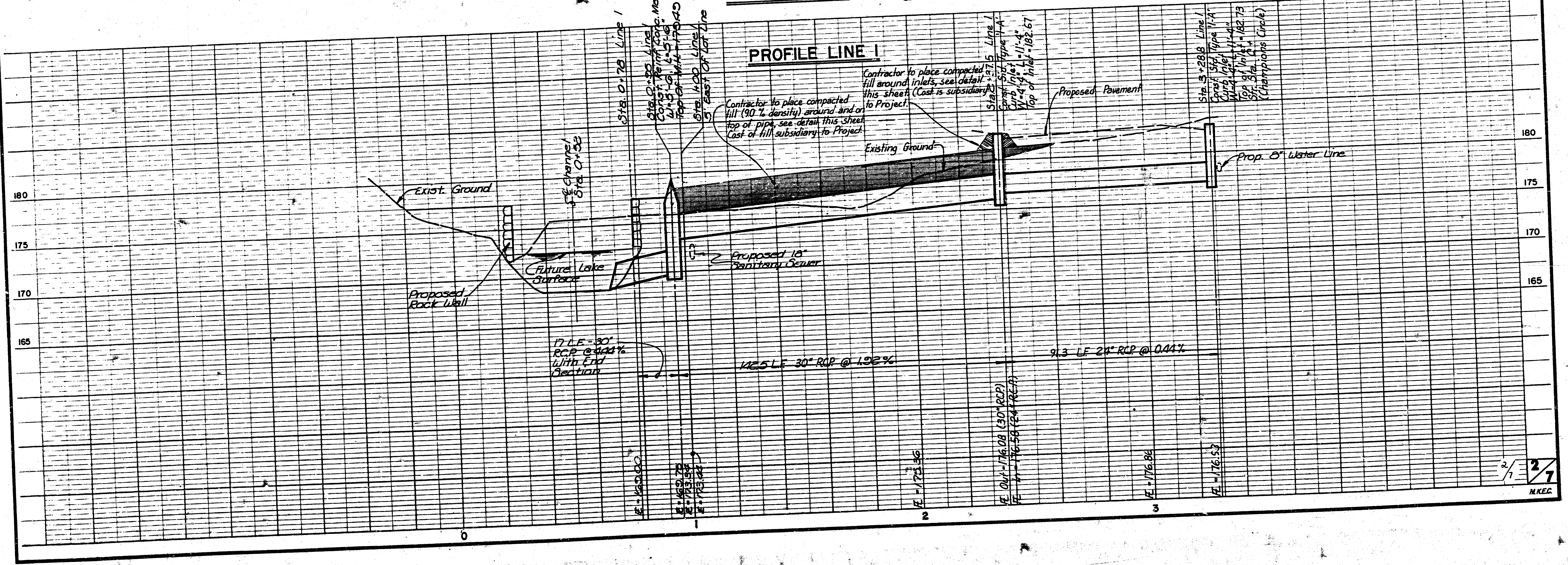
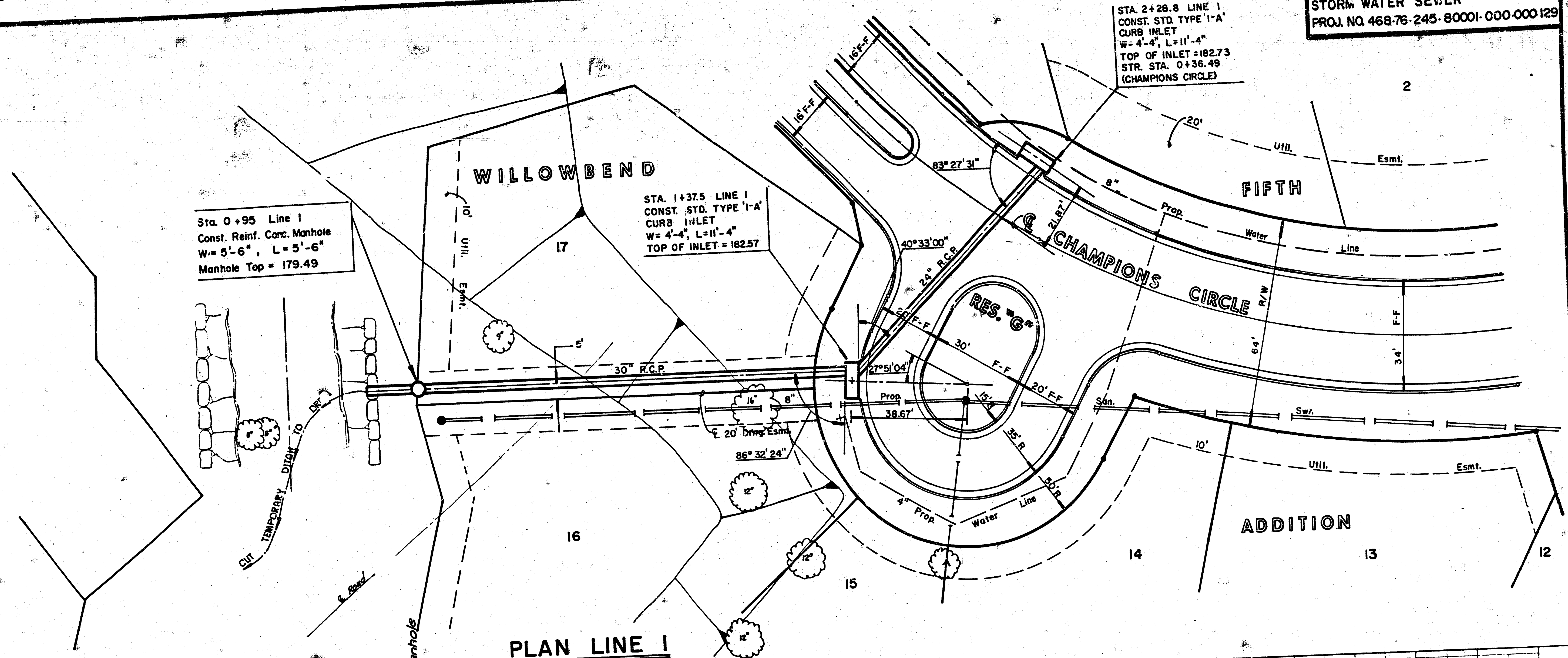
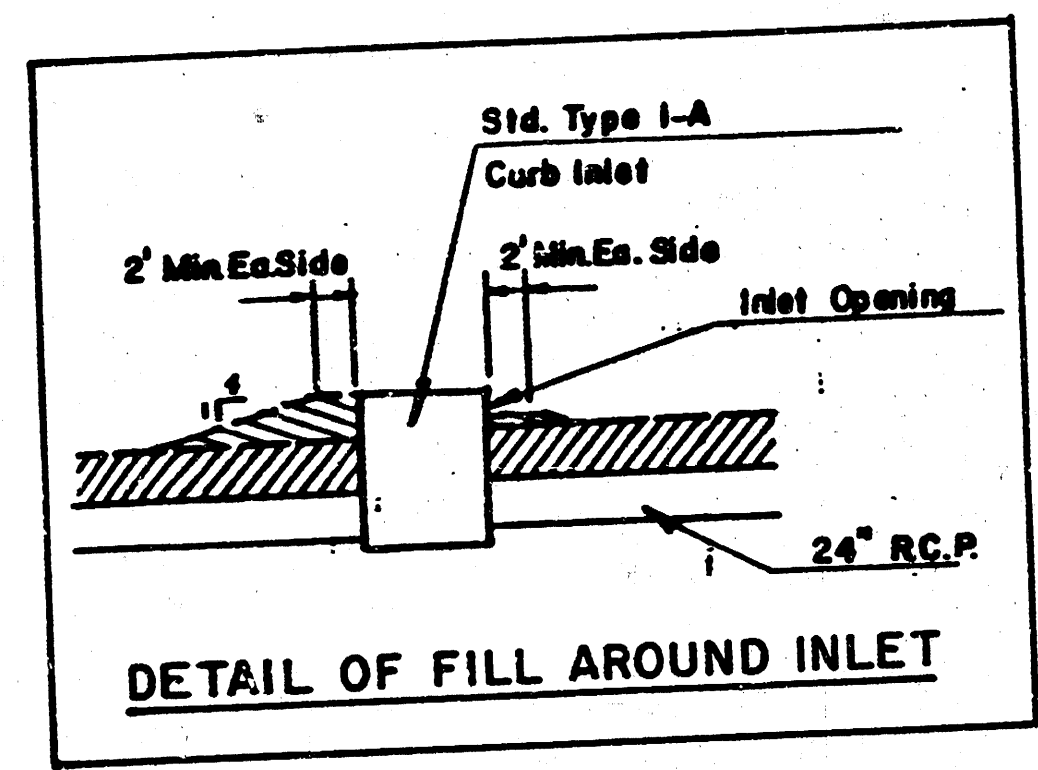
Design	_____
Drawn by	_____
Checked by	_____
Date	_____
Job no.	_____
Sheet	1
of	7

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WILLOWBEND FIFTH
STORM WATER SEWER
PROJ. NO. 468-76-245-80001-000-000-129

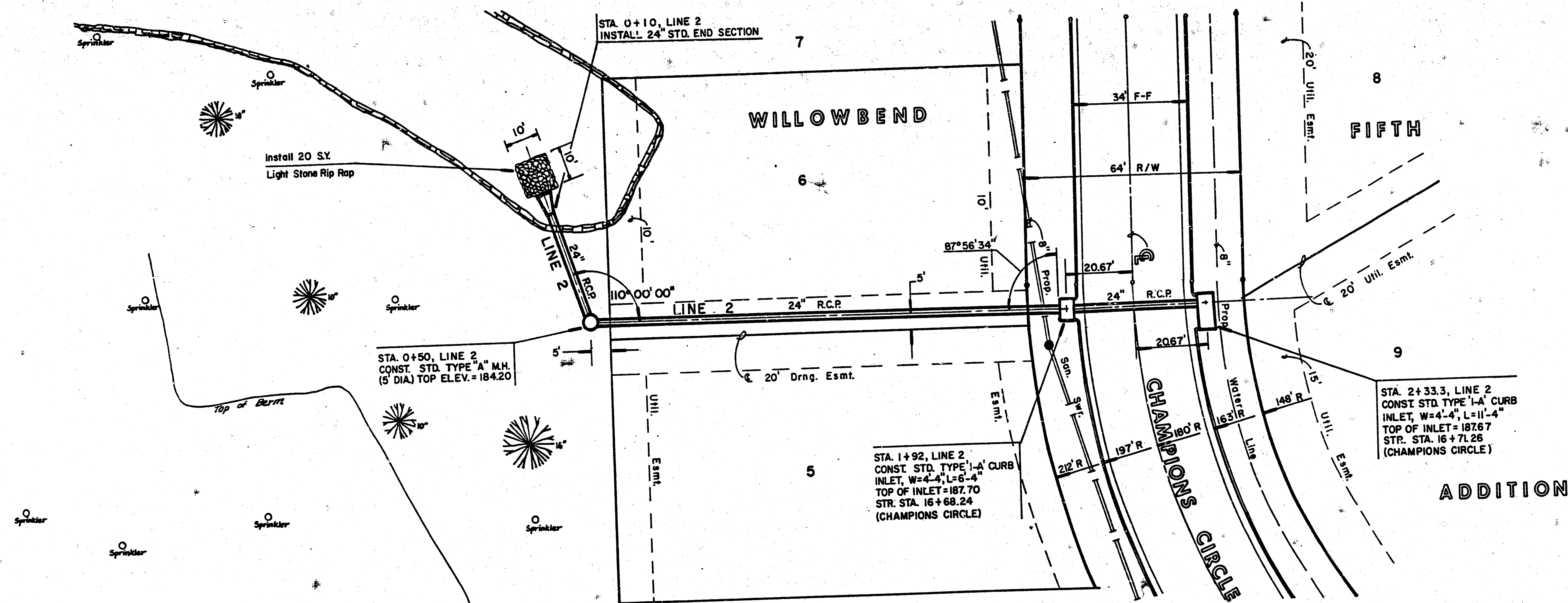


Scale: 1" = 20' Horiz.
1" = 5' Vert.



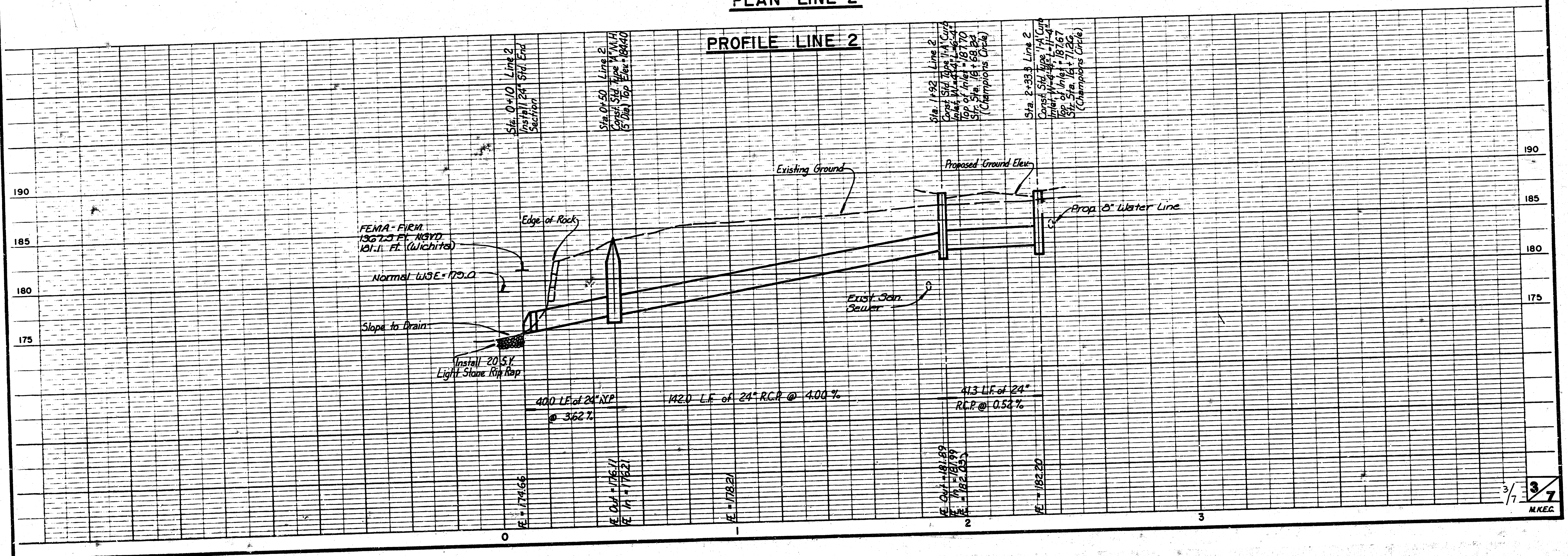
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WILLOWBEND FIFTH
STORM WATER SEWER
PROJ. NO. 468-76-245-80001-000-000-129

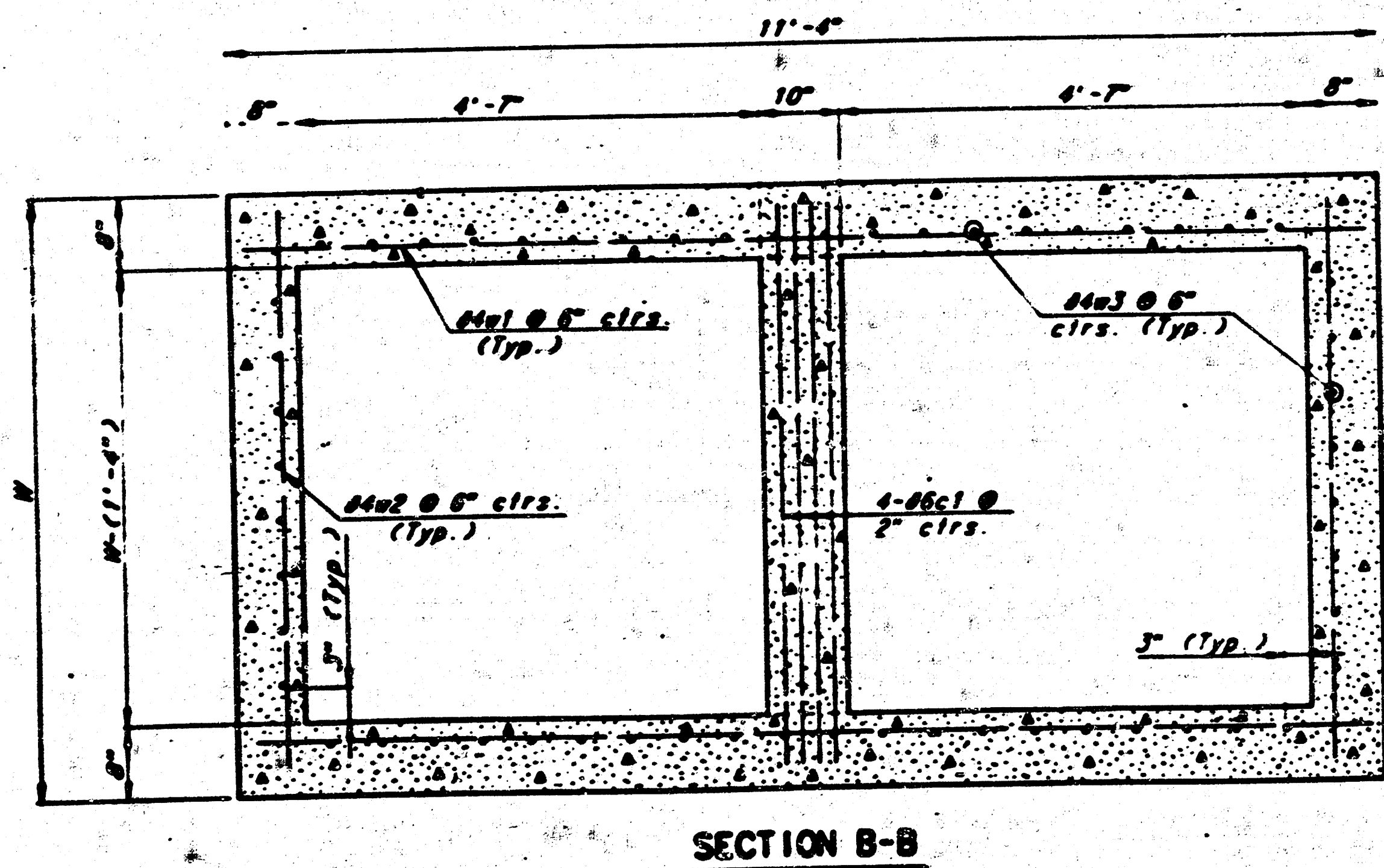
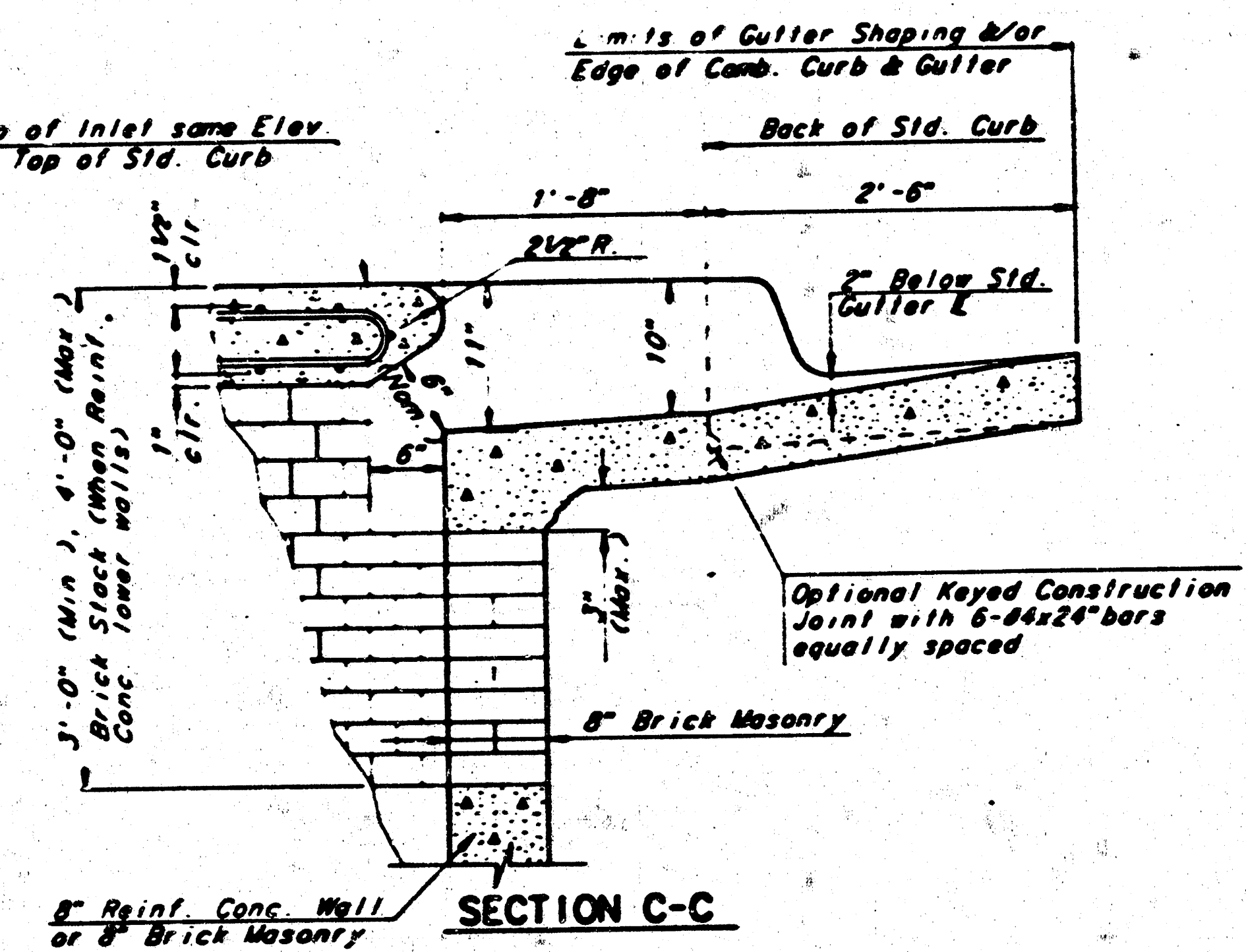
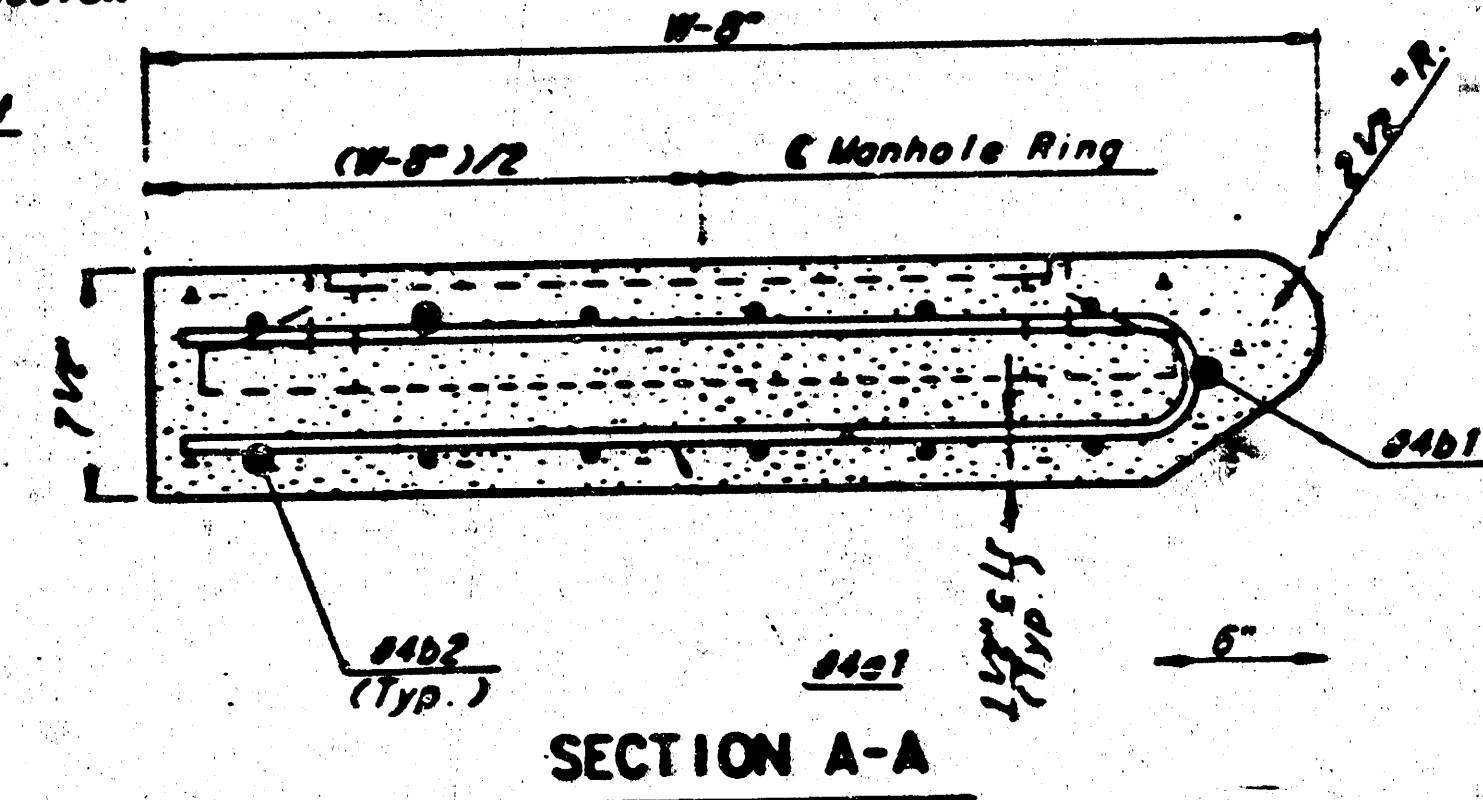
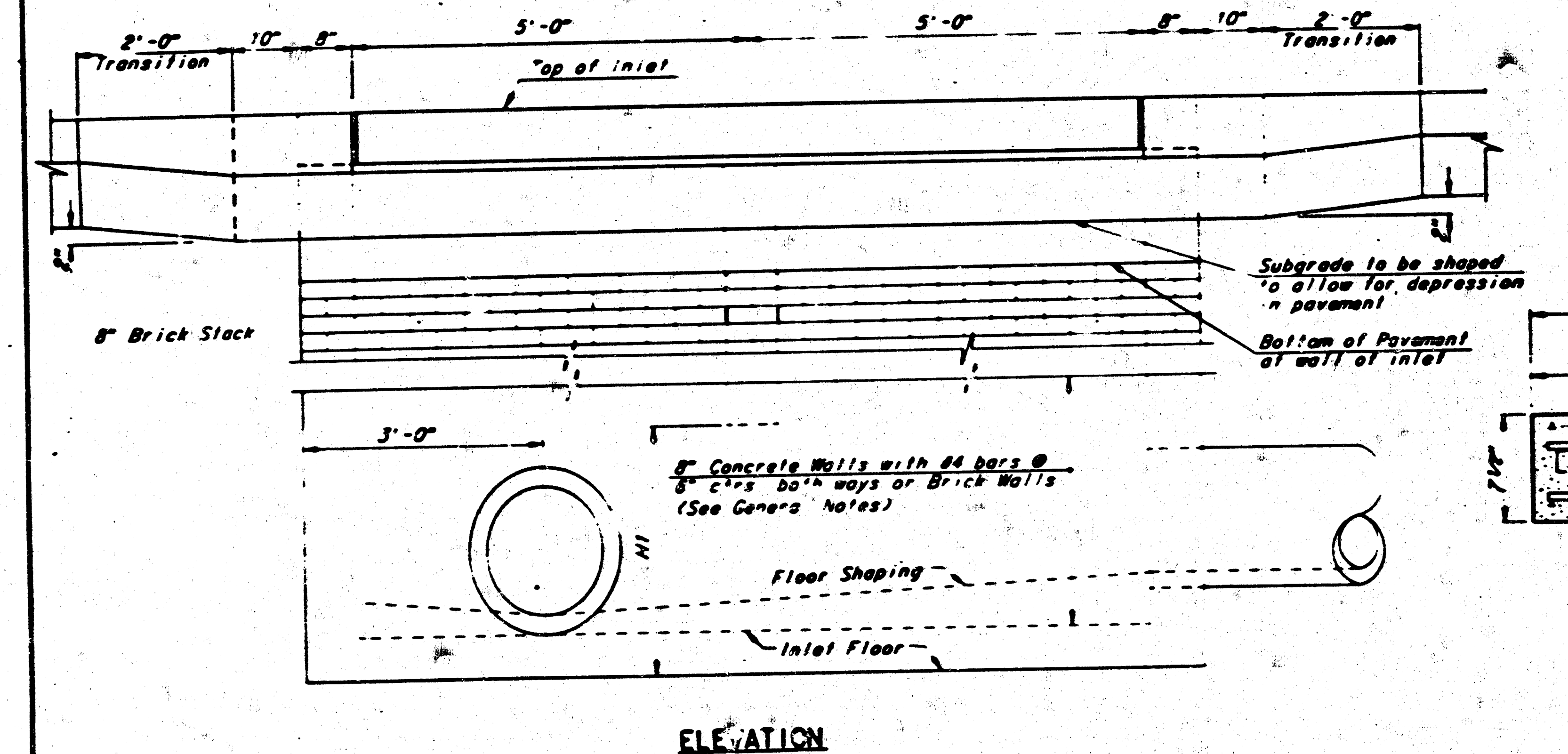
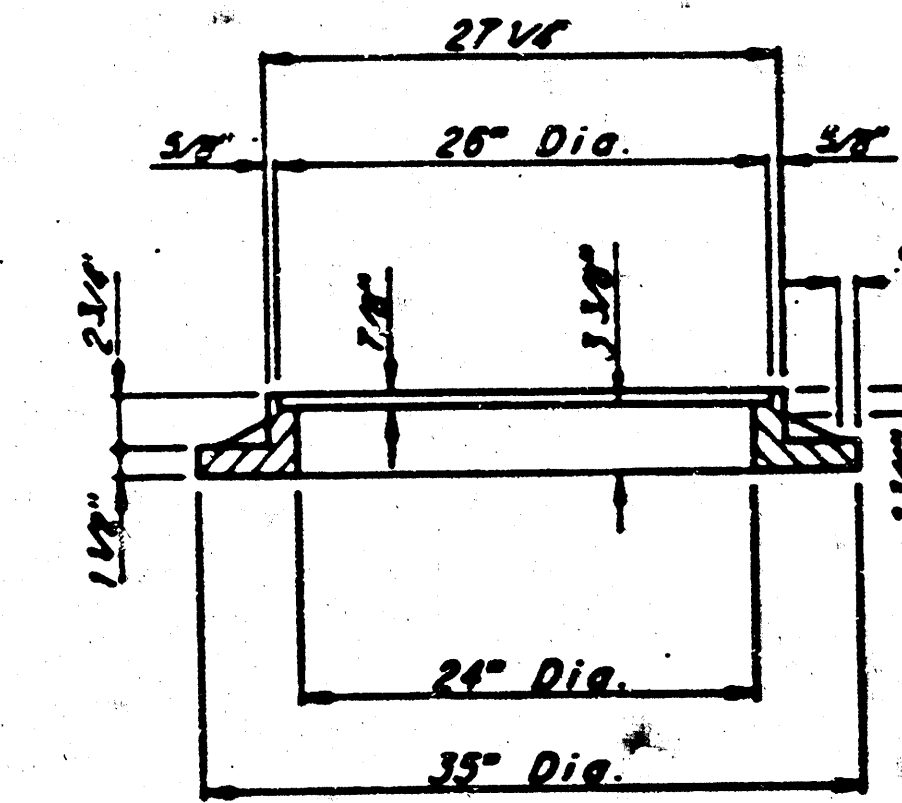
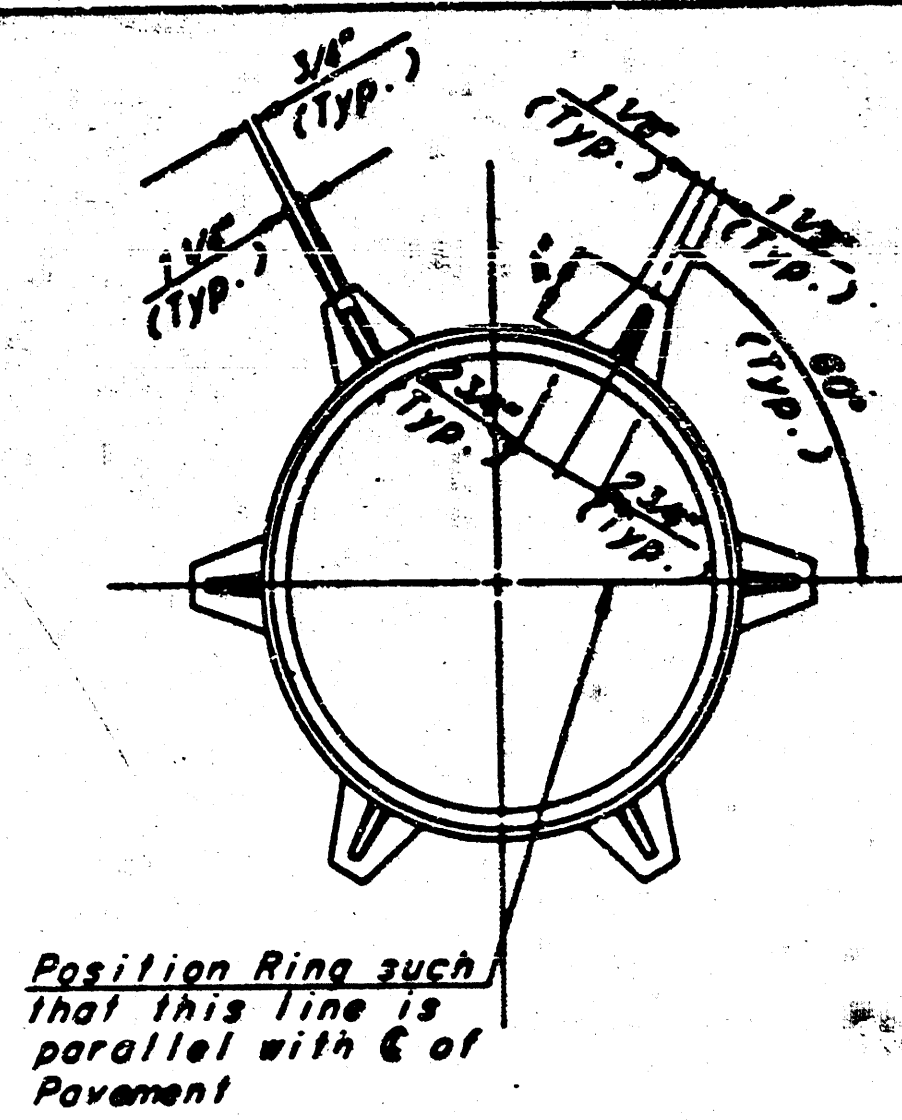
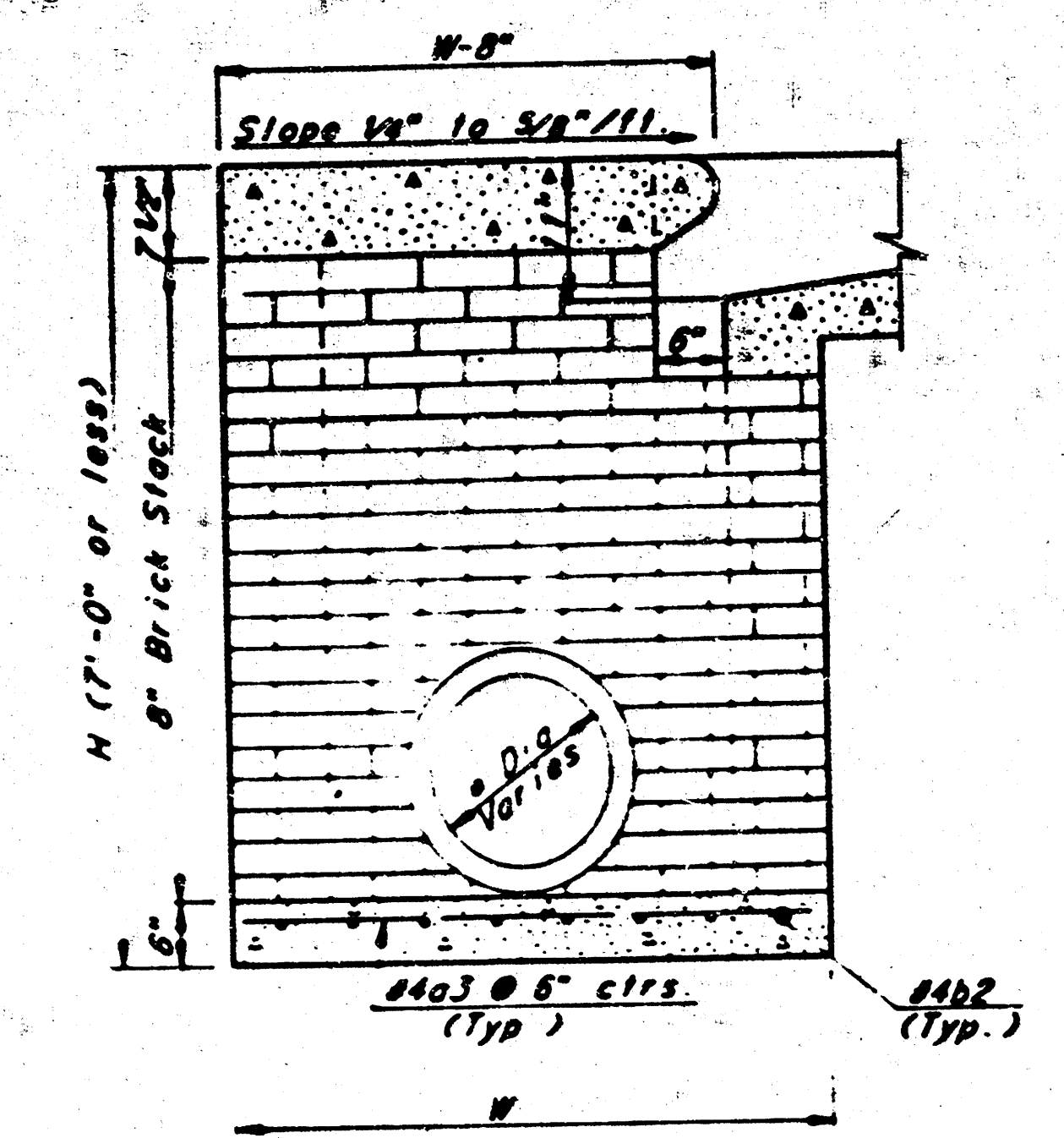
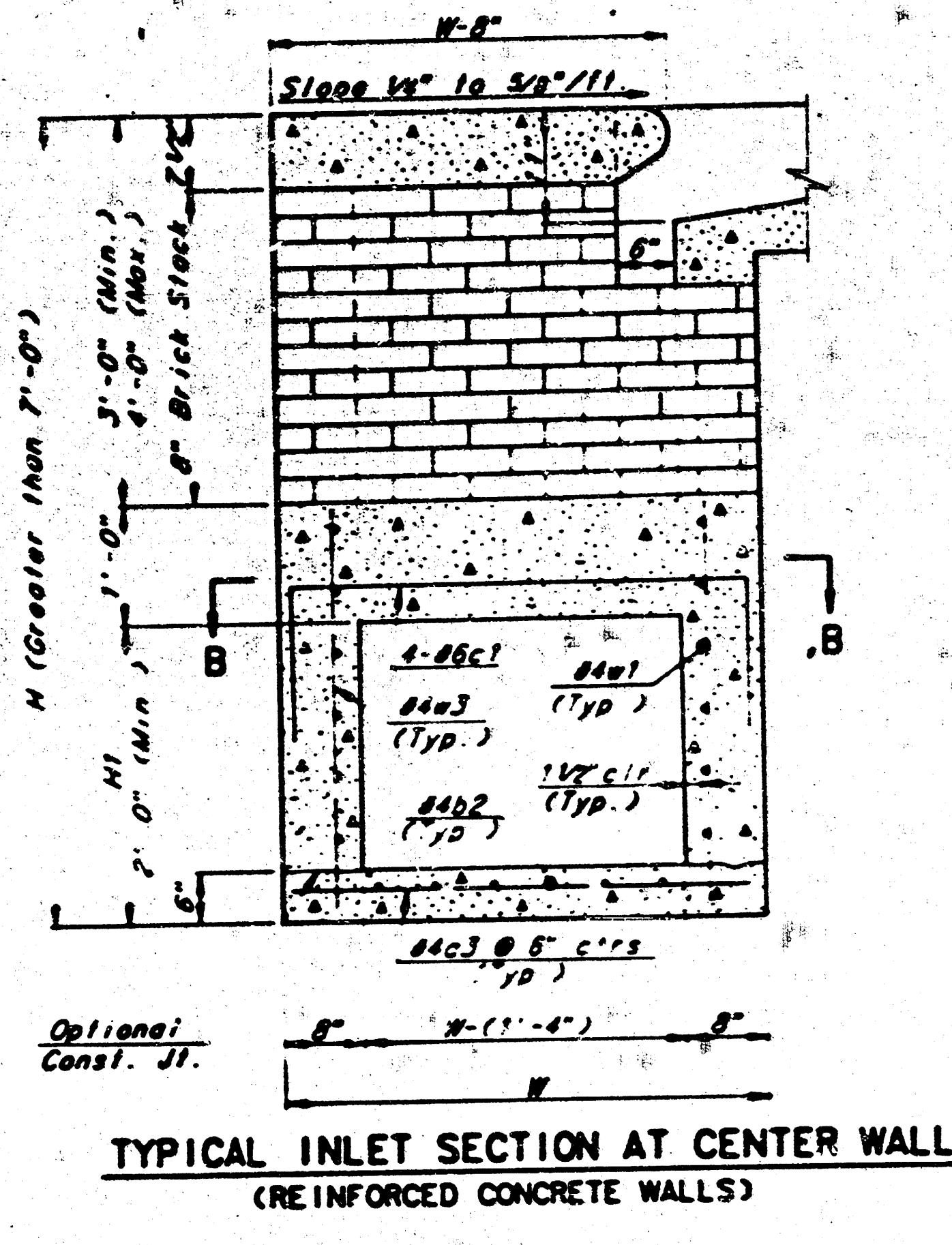
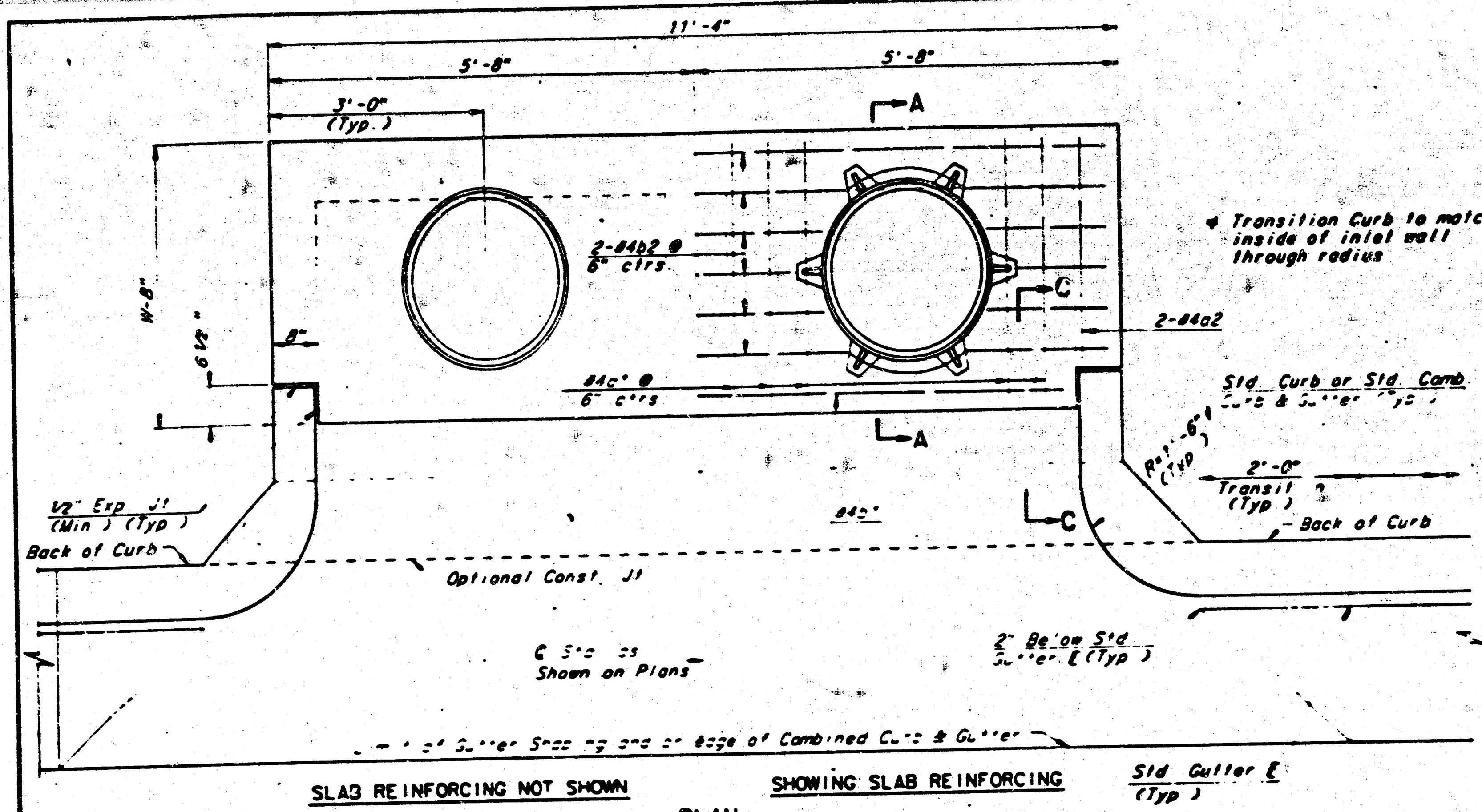


PLAN LINE 2

PROFILE LINE 2



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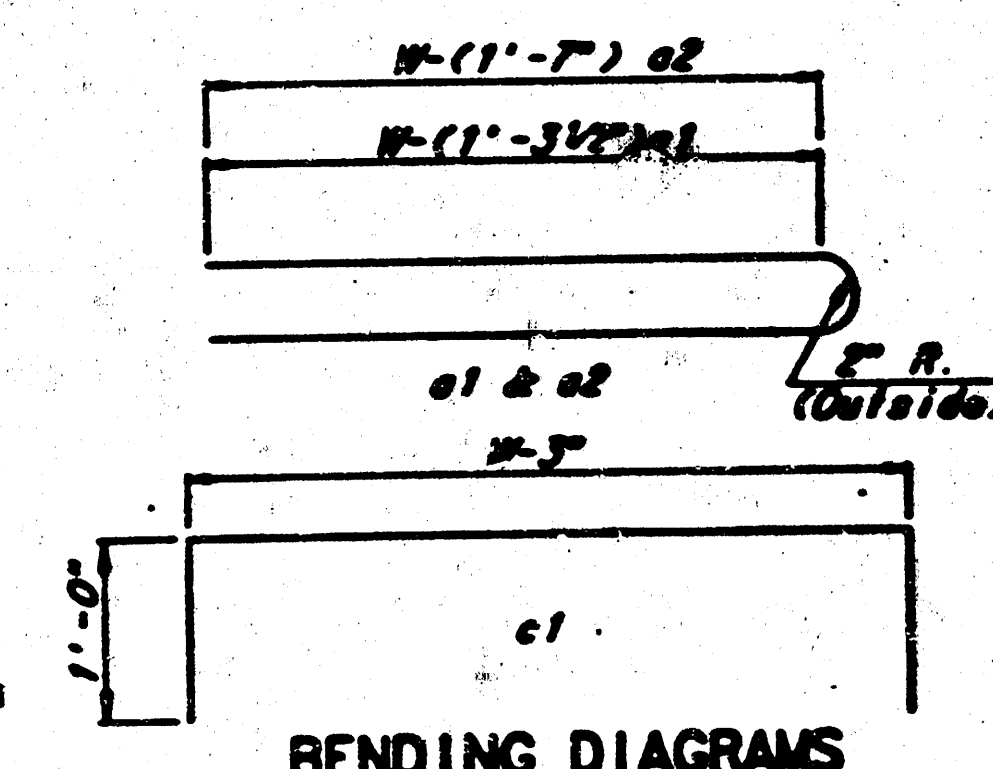


MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-7 1/4"	13	8'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"	13	14'-7 1/4"
a2	#4	2	6'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
b1	#4	1	9'-8"	1	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"

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"
a1	#4	0	11'-1"	0	11'-1"	0	11'-1"	0	11'-1"	0	11'-1"
a2	#4	0	4'-1"	0	5'-1"	0	6'-1"	0	7'-1"	0	8'-1"
a3	#4	0	0	0	0	0	0	0	0	0	0

* Field bend or cut Reinforcing as required for clearance
 ① 4(M-5")-4 (M-6") Rounded down to nearest 0.5"
 ② 40-4(W-10") ③ M-10"

- 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 9 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 NOTED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB BARS IN INLET TOP TO BE FIELD BENT ON 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.



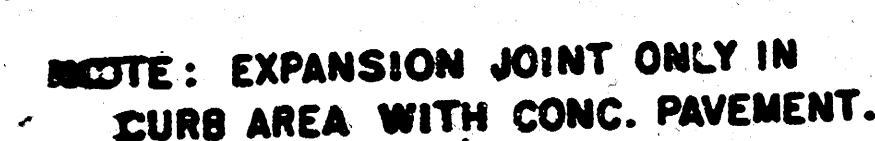
STANDARD TYPE 1A CURB INLET
 INLET OPENING = 6" x 10'-0"

WICHITA, KANSAS

Designed by: BEP, KJS, AMB
 Drawn by: JEP

Checked by: AMB
 Date: Nov., 1954

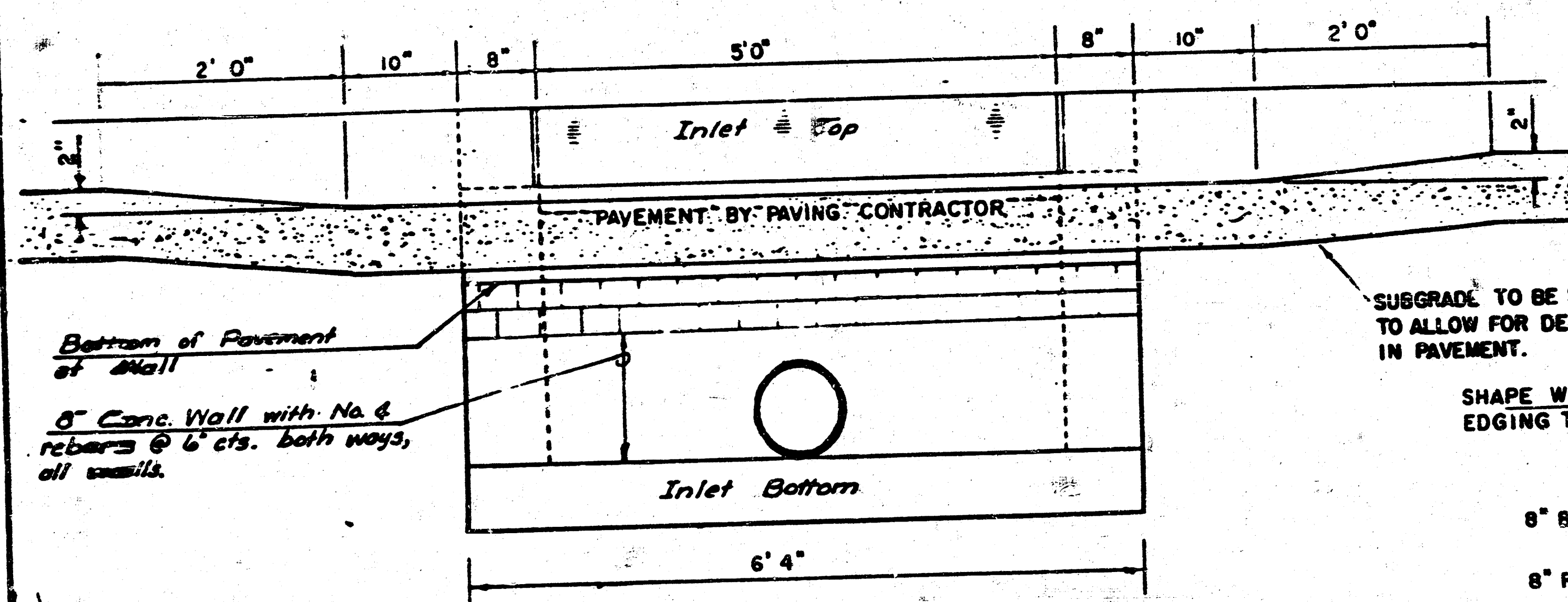
REVISED 12-21-64



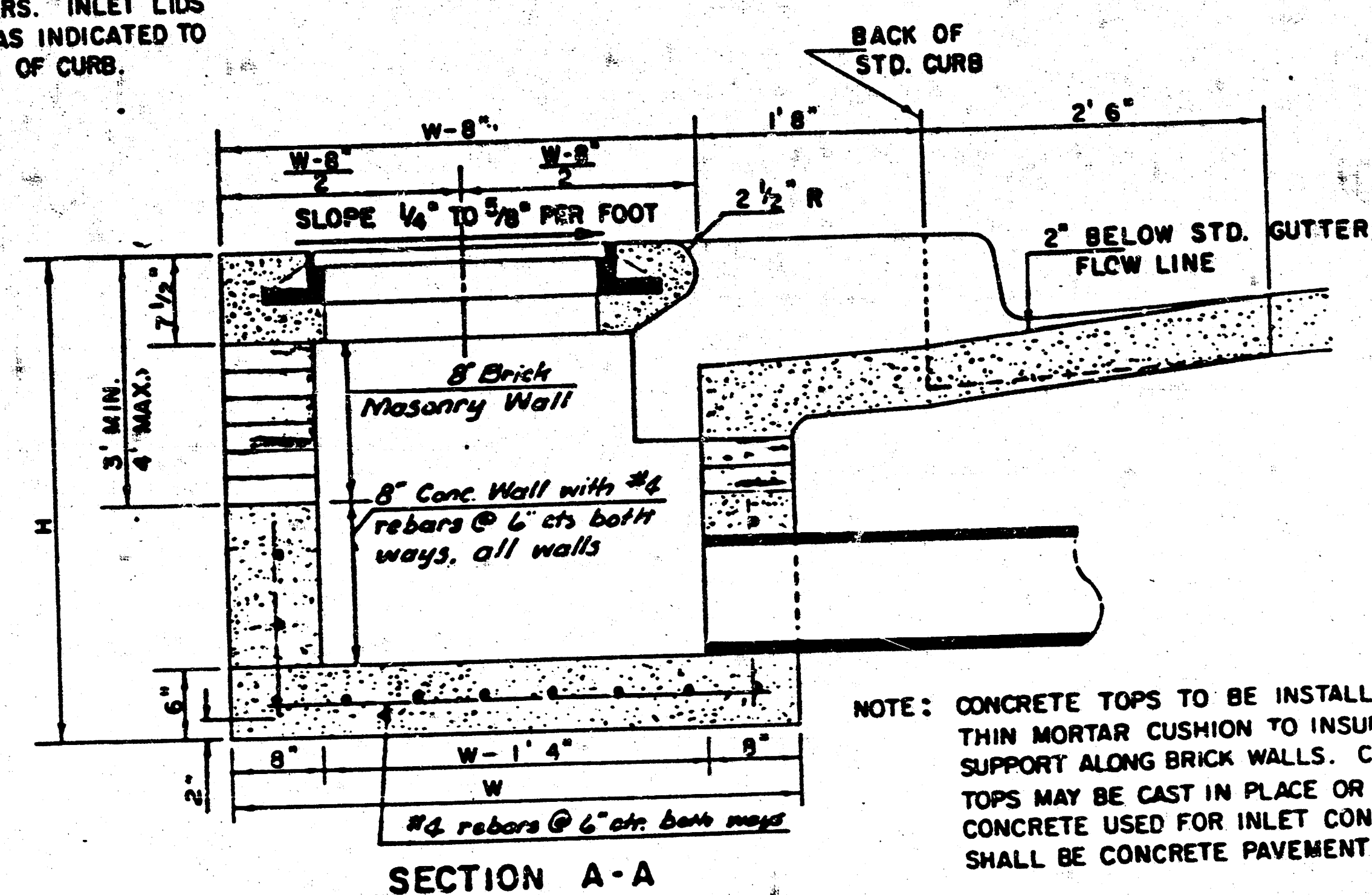
PLÁN

STEEL CONNECTIONS													
BAR	a ₁	a ₂	a ₃	b ₁					b ₂	b ₃	b ₄	WT. LBS.	
				W=4"	W=5"	W=6"	W=7"	W=8"					
NUMBER	4	4	2	1	3	5	7	9	6	1	1		
SIZE	"4	"4	"4	"4	"4	"4	"4	"4	"4	"4	"6		
LENGTH	W=4"	5'7"	6'7"	4'0"	6' 1"	-	-	-	1' 9"	6' 2"	4' 8"	60 ±	
	W=5"	7'7"	8'7"	5'0"	6' 1"	-	-	-	1' 9"	6' 2"	4' 8"	81 ±	
	W=6"	9'7"	10'7"	6'0"	-	6' 1"	-	-	1' 9"	6' 2"	4' 8"	101 ±	
	W=7"	11'7"	12'7"	7'0"	-	-	6' 1"	-	1' 9"	6' 2"	4' 8"	121 ±	
	W=8"	13'7"	14'7"	8'0"	-	-	-	6' 1"	1' 9"	6' 2"	4' 8"	141 ±	

◆ NOTE: a_3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER



SECTION C - C

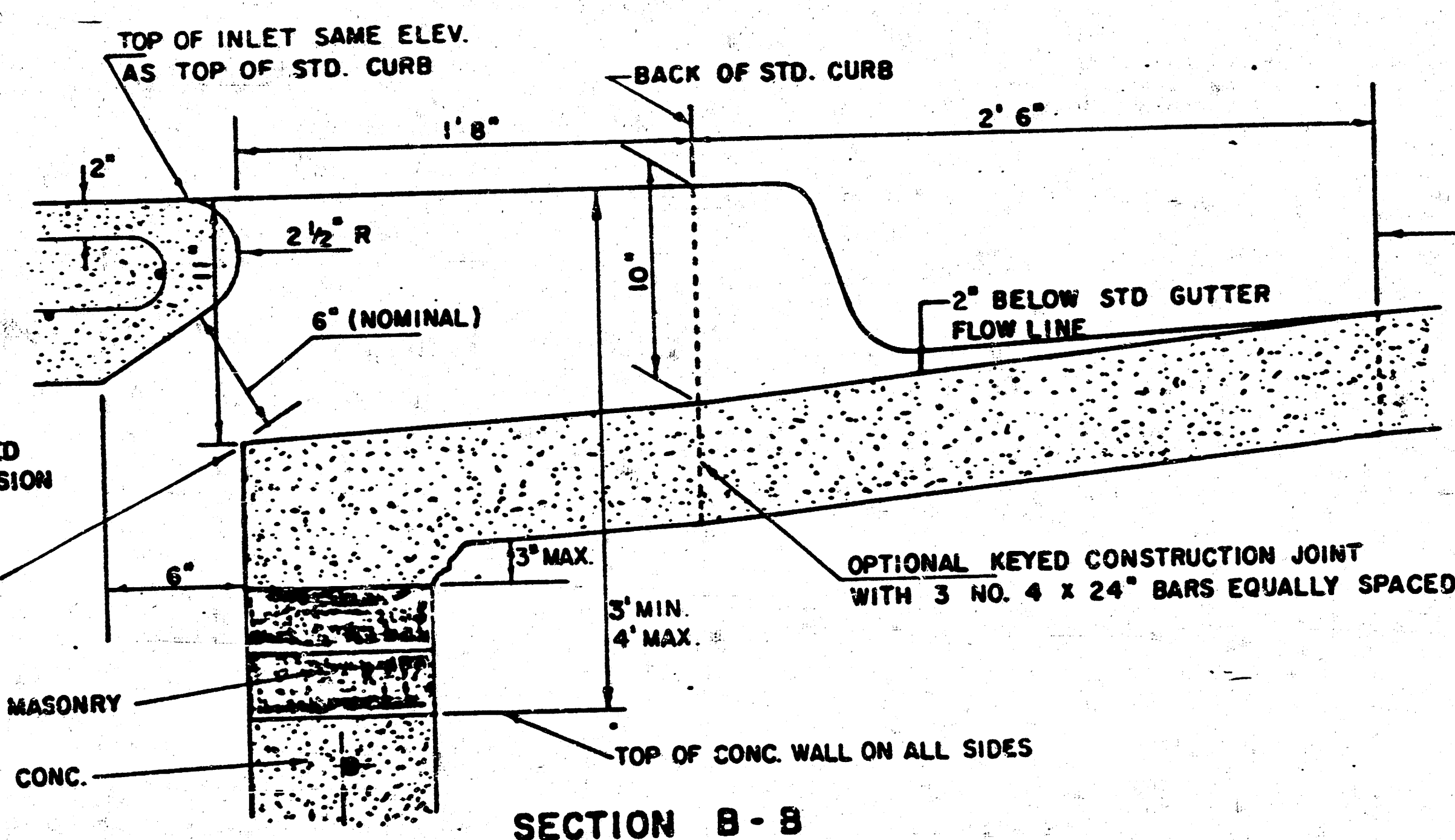


NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN $W = 6'4"$ AND $H = 7'0"$ OR LESS.

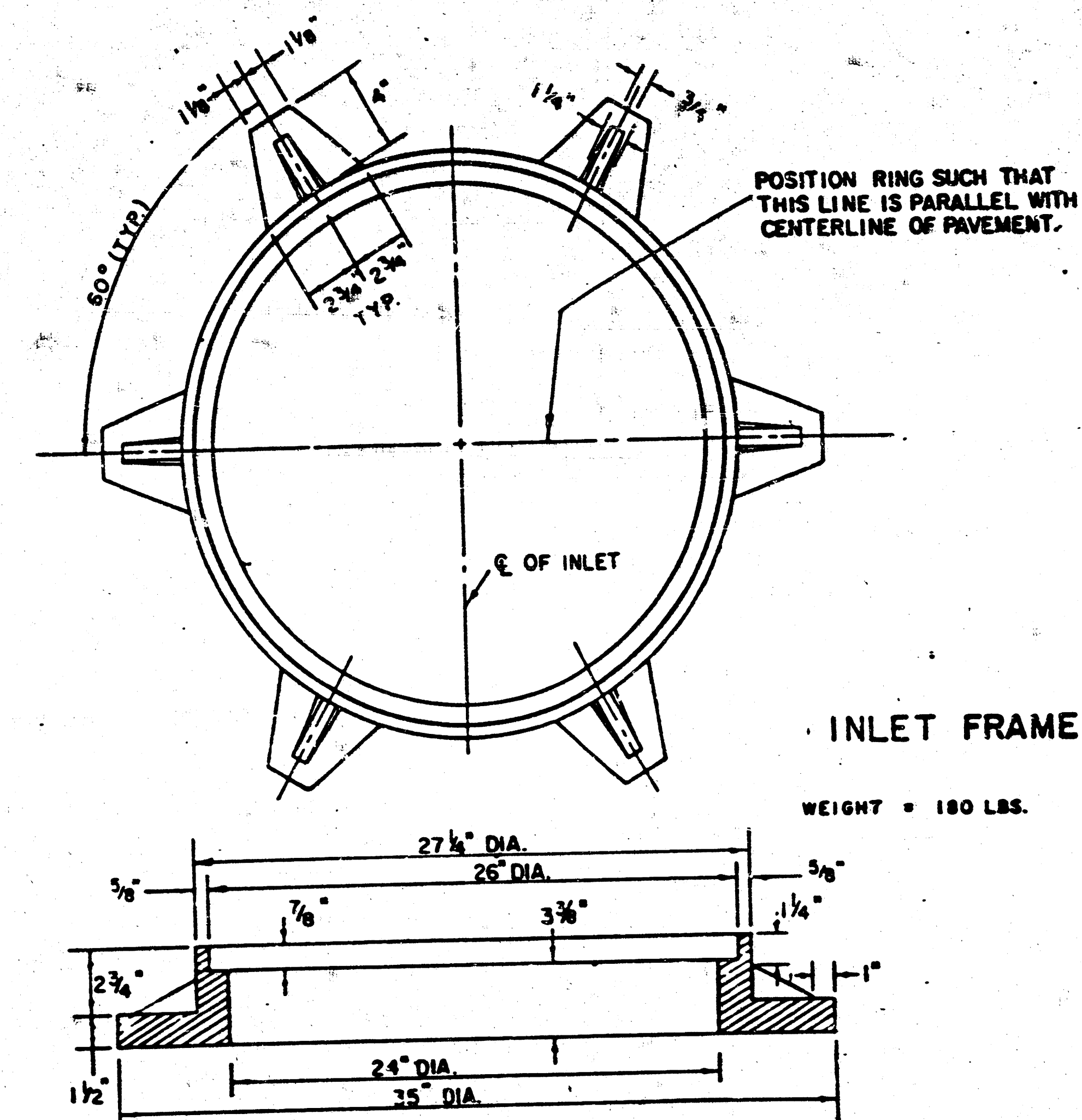
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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.



SECTION B - 8



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.

REVISED 12-21-1984

DETAIL STANDARD TYPE 1A CURB INLET

CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"

JUNE 1984

5/

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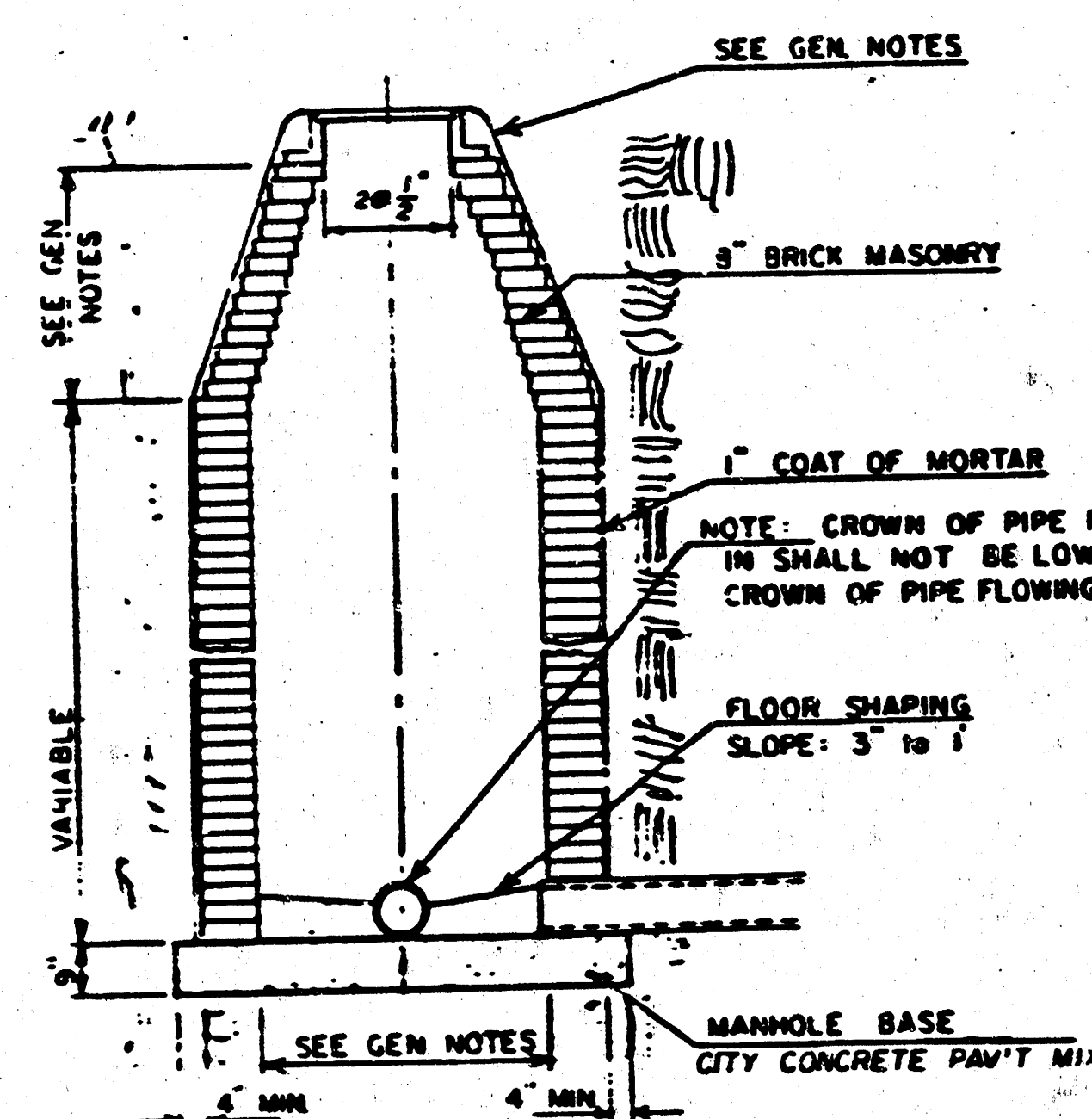
SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN
BY

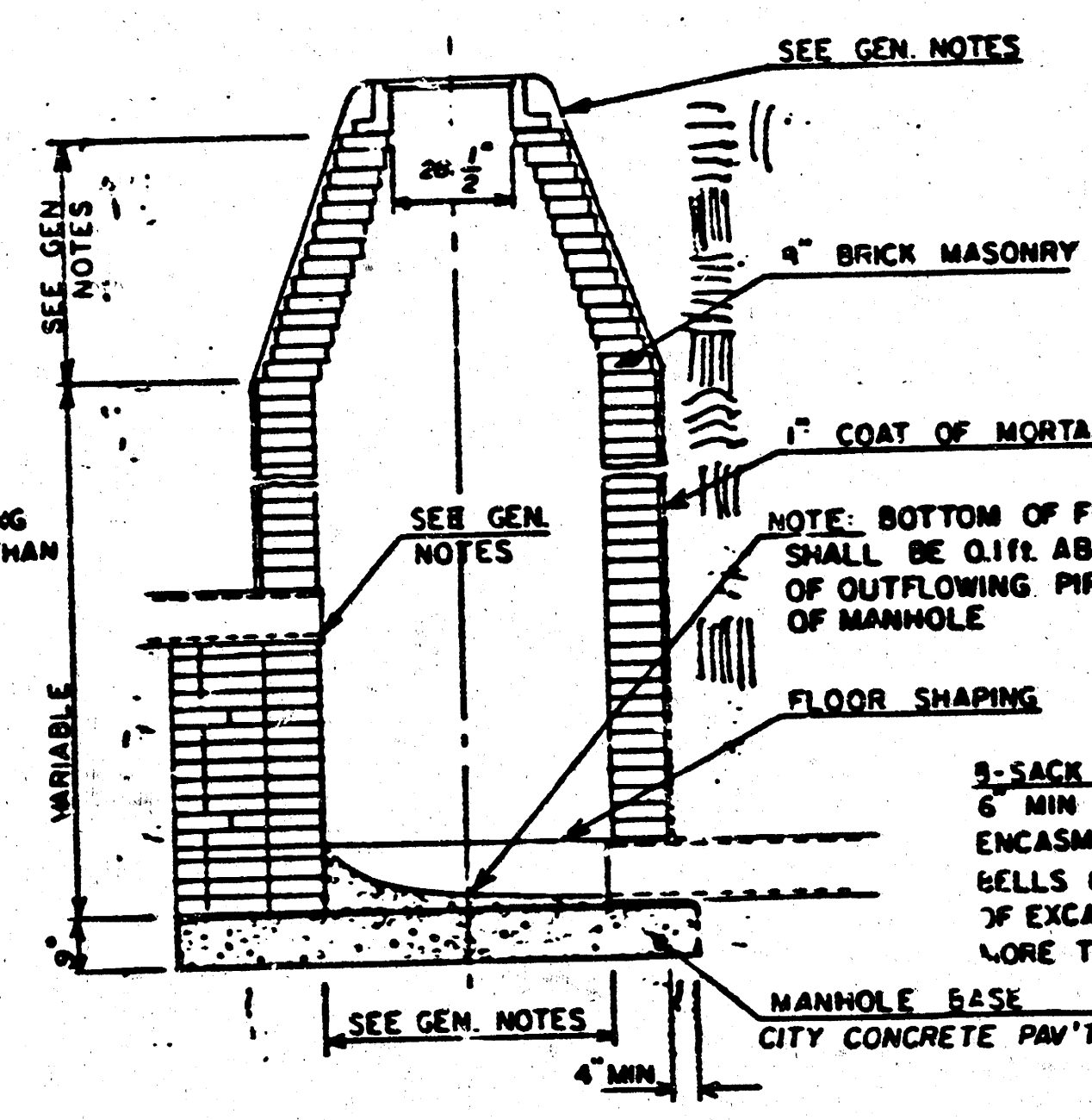
CITY of WICHITA, KANSAS

REVISED SEPTEMBER 1980
REVISED DECEMBER 1981

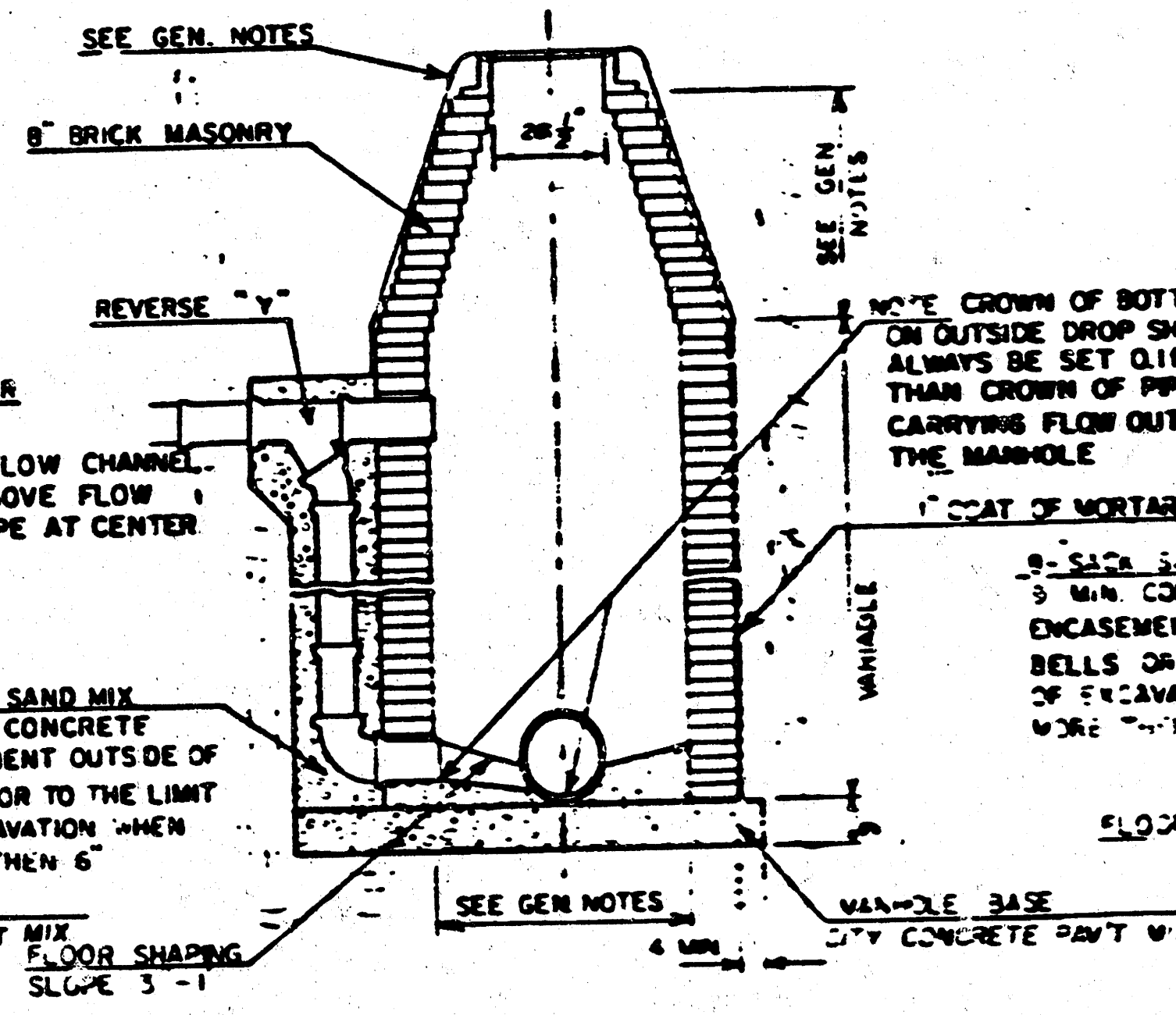
TYPE "A" MANHOLE



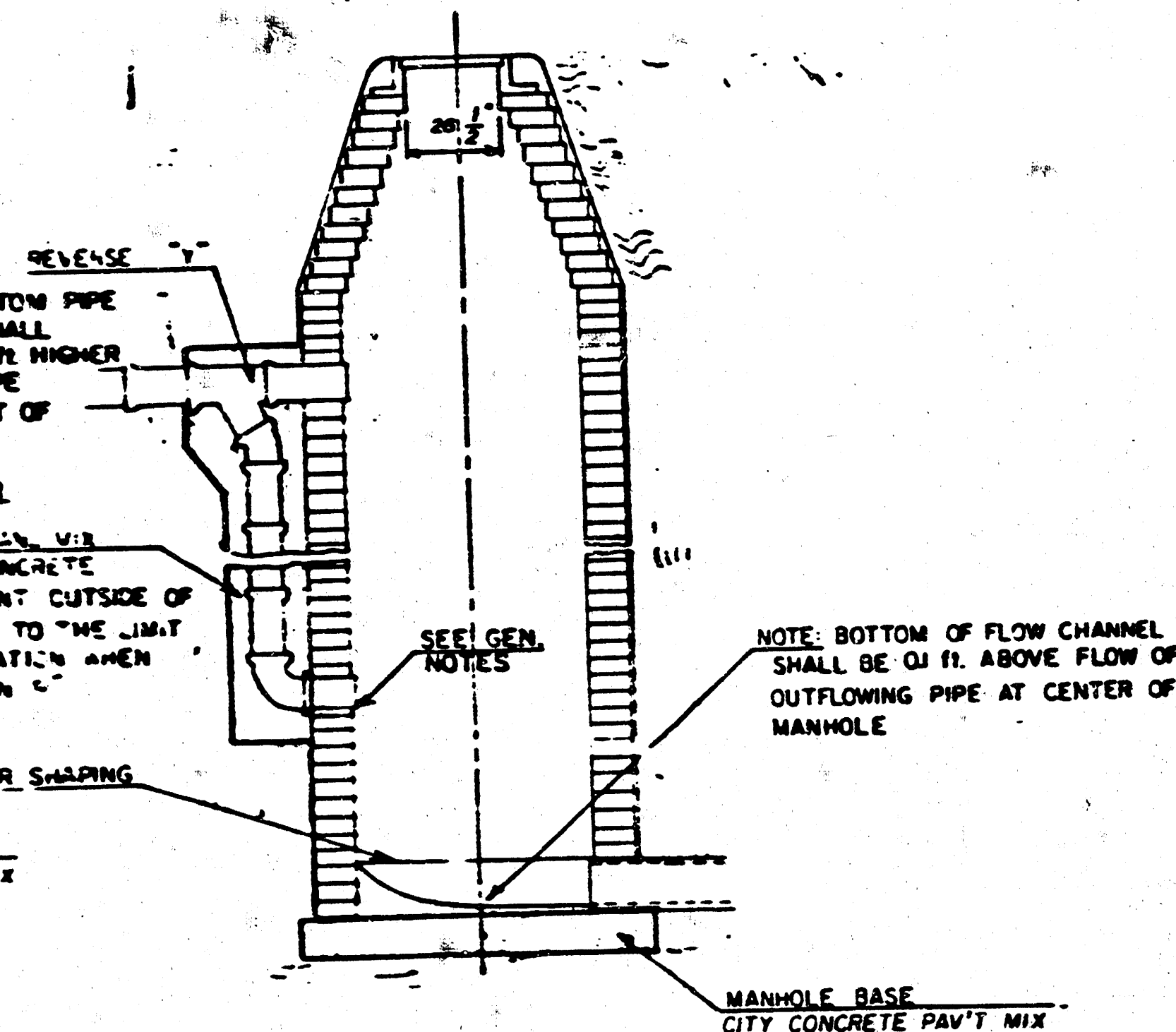
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



GENERAL NOTES

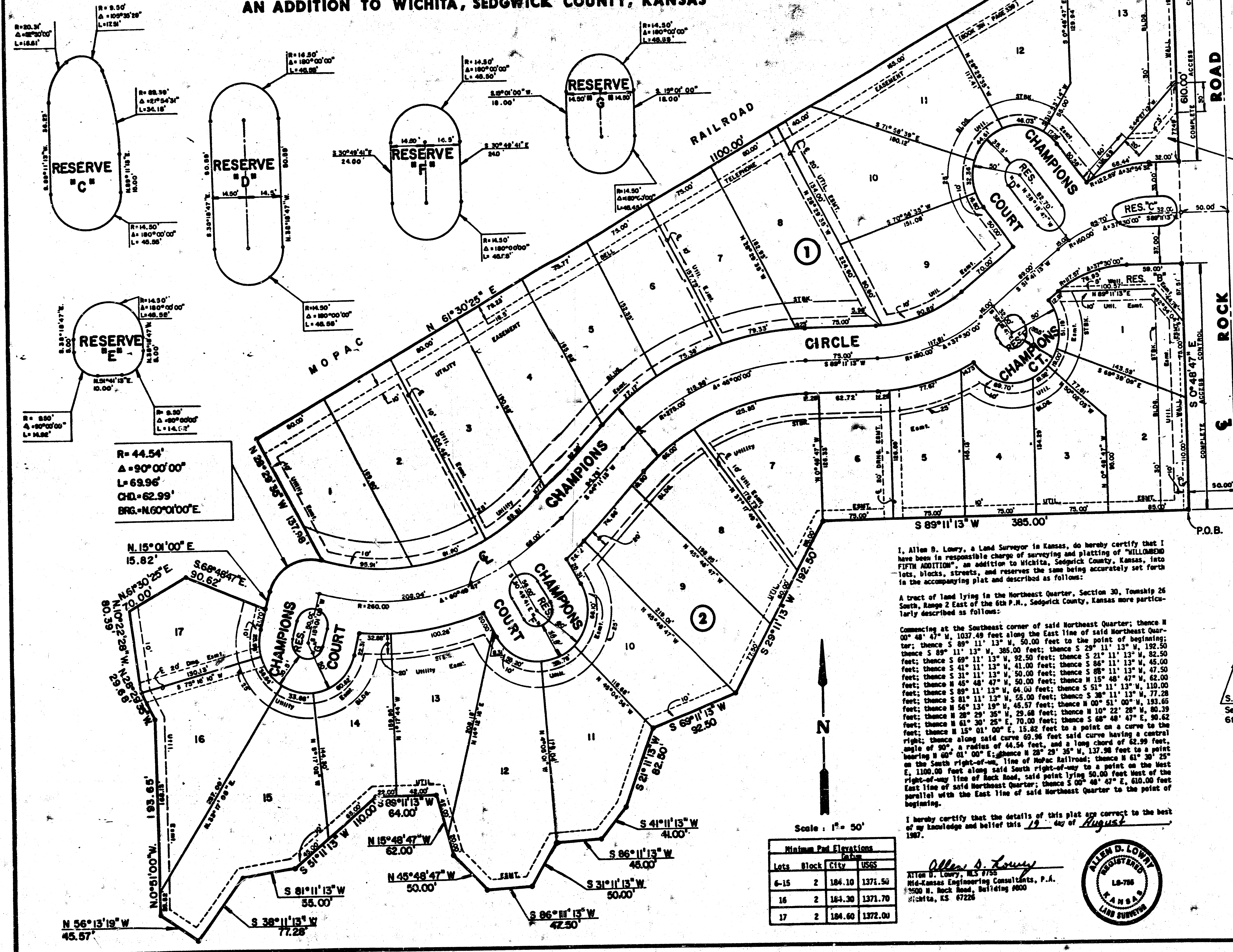
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" MANHOLES CAN BE USED ON PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. THE HEIGHT OF THE CORBELS ON 4' DIAMETER MANHOLES SHALL BE 4'. MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORBELS 6' IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINKING GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THE VERTICAL DROP FROM THE LOWER PIPE ON SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12". EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDUS could be deposited as SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAR LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF THE CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD MANHOLES TYPE "A" AND STANDARD INSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

6/7

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FINAL PLAT OF WILLOWBEND FIFTH ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



N.E. Cor. NE 1/4
Sec. 30, T. 26S, R. 2E.
6th P.M.

Know all men by these presents that the undersigned property owners of the land as above set forth in the Land Surveyors Certificate, have caused the same to be surveyed and platted into lots, blocks, streets, and reserves, the same to be known as "WILLOWBEND FIFTH 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 well easements are for the purpose of construction and maintenance of a private well. The reserves shall be owned and maintained by the Homeowners Association. Reserves "A" and "B" are for entry monuments, landscaping, irrigation, utilities, and walls confined to easements. Reserves "C" thru "F" are access to or from the West line of Rock Road over and across the East lines of Lot 13, Block 1, Lots 1 and 2, Block 2, and reserves "A" and "B". Willowbend Fifth Addition are hereby granted to the City of Wichita. Minimum pads are as shown on the face of the plat.

GOLF COURSES OF AMERICA, INC.

By: Frank A. Mills
FRANK A. MILLS, President

STATE OF KANSAS)
SEDGWICK COUNTY)

Be it remembered that on this 10th day of August, 1987, before me a Notary Public in and for said State and County, came Frank A. Mills, president of Golf Courses of America, Inc., 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.

Notary Public
My Appointment Expires: June 8, 1988

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

Dated this 10th day of August, 1987.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

John Terry Moore, Chairman

Marvin S. Kroust, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Council of the City of Wichita, Kansas, this 10th day of August, 1987.

Robert E. Knight, Mayor

Dele E. Kna, Deputy City Clerk

Entered on transfer record this 10th day of August, 1987.

Don Wright, County Clerk.

STATE OF KANSAS)
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this 10th day of August, 1987.

Pat Kettler, Register of Deeds

Ed Kesa, Deputy

We, the Michigan National Bank, a National banking association, do hereby consent to the plat of "WILLOWBEND FIFTH ADDITION".

MICHIGAN NATIONAL BANK, a National banking association.

By: Phillip S. Pfrke, Attorney-in-Fact

STATE OF KANSAS)
SEDGWICK COUNTY)

Be it remembered that on this 10th day of August, 1987, before me a Notary Public in and for said State and County, came Phillip S. Pfrke, Attorney-in-Fact, on behalf of Michigan National Bank, a National banking association, 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.

Notary Public

My Appointment Expires: June 8, 1988

I, Allen B. Lowry, a Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WILLOWBEND FIFTH ADDITION", an addition to Wichita, Sedgwick County, Kansas, into lots, blocks, streets, and reserves the same being accurately set forth in the accompanying plat and described as follows:

A tract of land lying in the Northeast Quarter, Section 30, Township 26 South, Range 2 East of the 6th P.M., Sedgwick County, Kansas more particularly described as follows:

Commencing at the Southeast corner of said Northeast Quarter; thence N 00° 48' 47" W, 1037.49 feet along the East line of said Northeast Quarter; thence S 89° 11' 13" W, 50.00 feet to the point of beginning; thence S 89° 11' 13" W, 385.00 feet; thence S 29° 11' 13" W, 192.50 feet; thence S 89° 11' 13" W, 41.00 feet; thence S 86° 11' 13" W, 45.00 feet; thence S 41° 11' 13" W, 50.00 feet; thence S 86° 11' 13" W, 47.50 feet; thence S 31° 11' 13" W, 50.00 feet; thence S 86° 11' 13" W, 42.00 feet; thence S 45° 48' 47" W, 50.00 feet; thence S 51° 11' 13" W, 110.00 feet; thence S 89° 11' 13" W, 64.00 feet; thence S 38° 11' 13" W, 77.28 feet; thence S 81° 11' 13" W, 45.57 feet; thence S 10° 22' 28" W, 80.39 feet; thence S 56° 29' 35" W, 29.68 feet; thence S 10° 22' 28" W, 80.39 feet; thence S 28° 35' 35" E, 70.00 feet; thence S 60° 48' 47" E, 90.62 feet; thence S 61° 30' 25" E, 70.00 feet; thence S 00° 48' 47" E, 610.00 feet East line of said Northeast Quarter; thence S 00° 48' 47" E, 610.00 feet parallel with the East line of said Northeast Quarter 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 10th day of August, 1987.

Allen B. Lowry
Allen B. Lowry, L.S. 7156
Mid-Kansas Engineering Consultants, P.A.
1500 N. Rock Road, Building 6000
Wichita, KS 67226



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