

# STORM SEWER PLANS FOR KILLARNEY FIRST ADDITION

PROJECT NO.  
**468-76-245-80001-000-000-185** Index Code # 606863

CITY OF WICHITA, KANSAS  
MICHAEL E. LINDEBAK, CITY ENGINEER  
NOVEMBER, 1988

## GENERAL NOTES

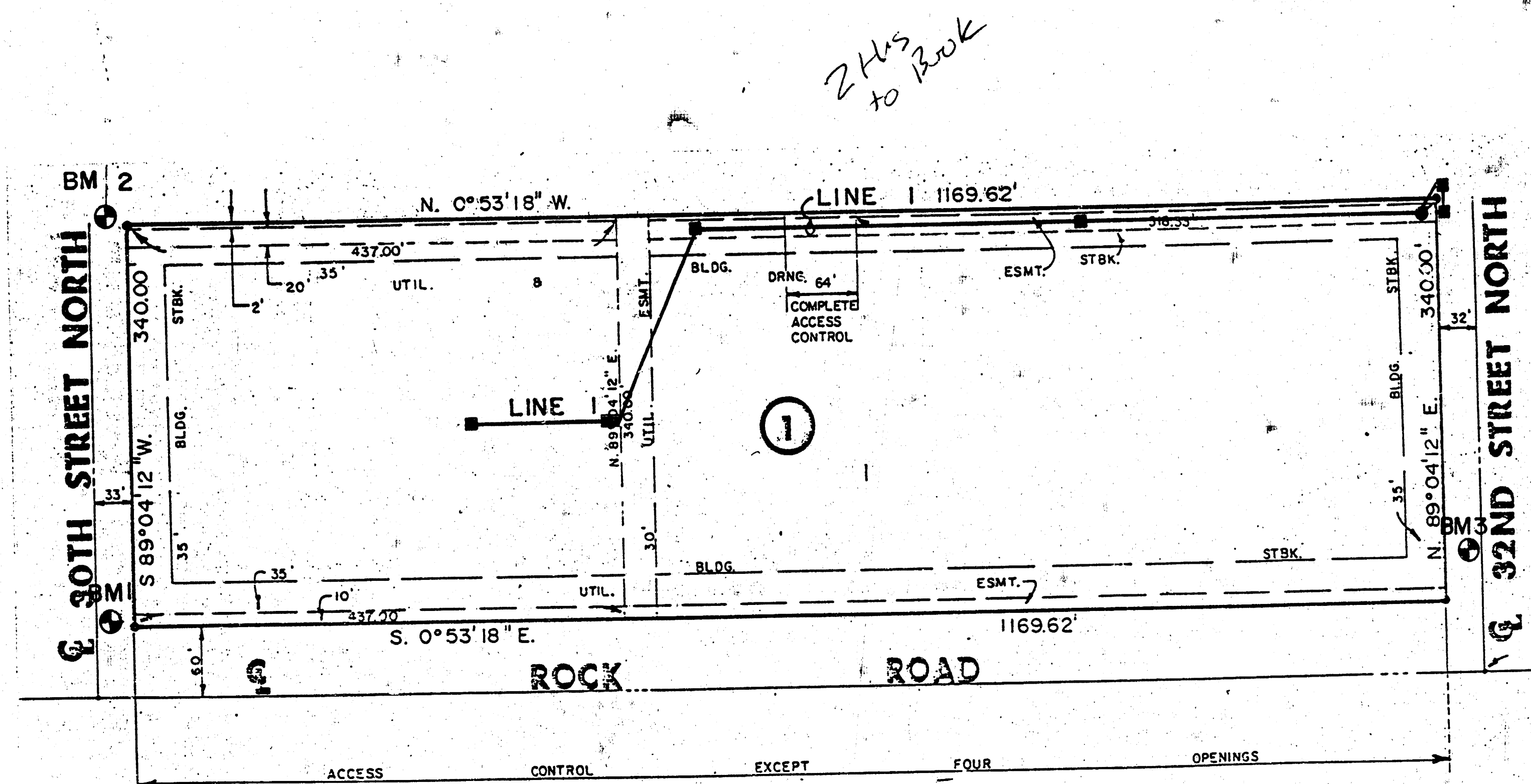
1. THE TOPS OF INLET AND MANHOLE AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
3. 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.
4. 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.
5. CONSTRUCTION OF THIS PROJECT SHALL BE PHASED. PHASE I OF THIS PROJECT SHALL BE STATION 3+20 TO 9+81.7. THE PURPOSE OF PHASING IS TO CLEAR THE PAVING OF THE SITE WHERE THE BUILDING IS UNDER CONSTRUCTION. PHASE II IS THE REST OF THE PROJECT.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

|                        |                |
|------------------------|----------------|
| BELL TELEPHONE COMPANY | 1-316-571-2115 |
| CABLEVISION            | 262-0661       |
| KP&L COMPANY           | 263-7511       |
| KANSAS GAS & ELECTRIC  | 264-1141       |

## BENCH MARKS

- |         |                                                                             |
|---------|-----------------------------------------------------------------------------|
| B.M. #1 | "Cut on West End of the NW Return of 30th Street No. 8 Rock Rd.             |
| B.M. #2 | "Cut on North T.C. of 30th Street No. at SW Corner Killarney First Addition |
| B.M. #3 | "Cut on North T.C. 32nd Street No. 8 100' West of C. of Rock Rd.            |



## INDEX TO DRAWINGS

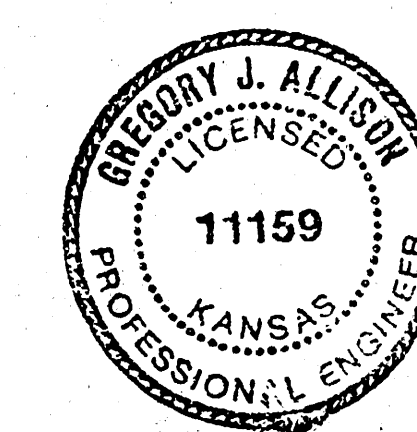
| SHEET NO. | DESCRIPTION            |
|-----------|------------------------|
| 1         | TITLE SHEET            |
| 2-3       | PLAN & PROFILE LINE 1  |
| 4         | SHALLOW MANHOLE DETAIL |
| 5         | DROP INLET DETAIL      |
| 6         | CURB INLET DETAIL      |
| 7         | FINAL PLAT             |

## 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.

APPROVED AS NOTED  
By CITY ENGINEER OF WICHITA

Sanitary Sewers \_\_\_\_\_  
Storm Sewers VRH. 11/9/88  
Driveway Approaches \_\_\_\_\_  
Water Mains \_\_\_\_\_  
Paving \_\_\_\_\_



AS BUILT - DEC 1988



**KILLARNEY FIRST  
STORM WATER SEWER  
PLANS**

Design: GJA  
Drawn by: KKL  
Checked by:  
Date: Nov., 1988  
Job no.

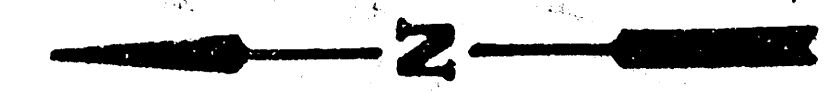
MID-KANSAS ENGINEERING CONSULTANTS PA  
3500 NORTH ROCK ROAD  
BUILDING #800  
WICHITA, KANSAS 67226

682-6561

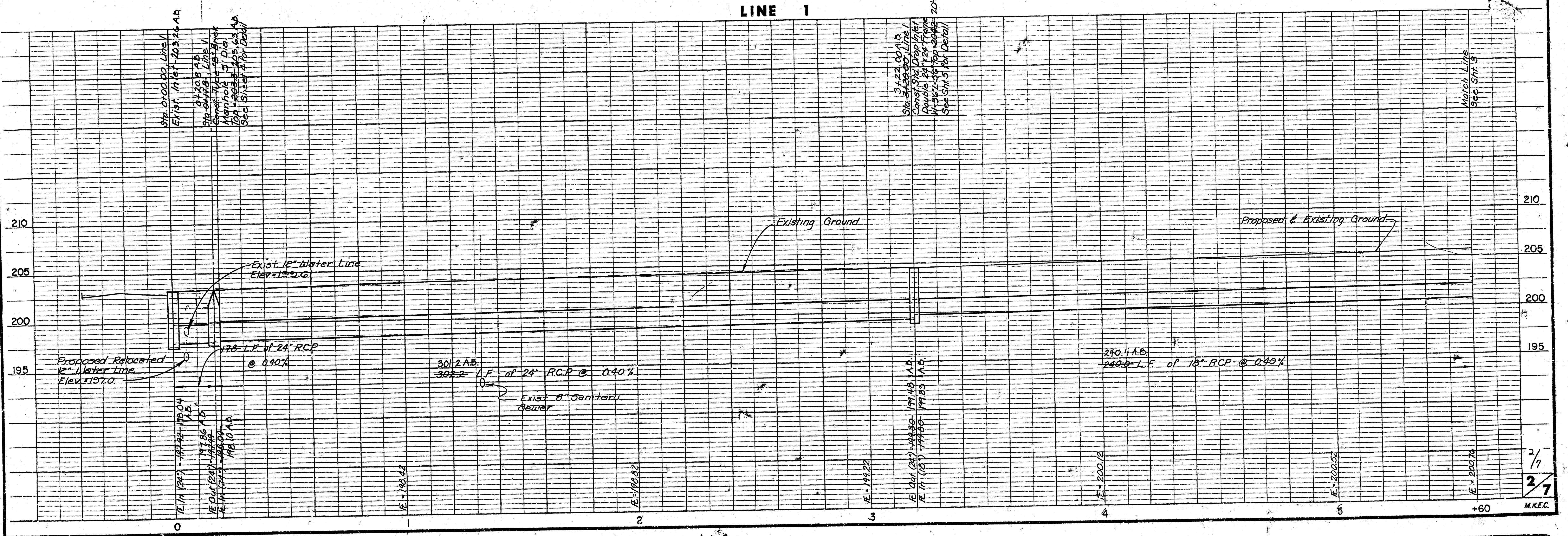
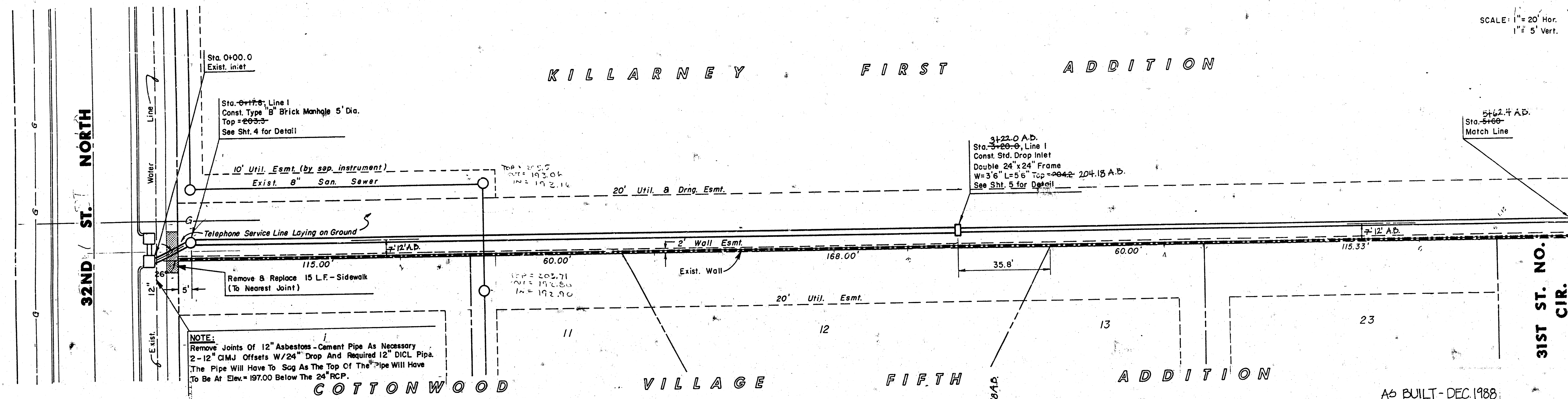
Sheet 1  
of 7

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KILLARNEY FIRST ADDITION  
STORM WATER SEWER  
PROJ. NO. 468-76-245-80001-000-000-185

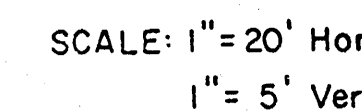


SCALE: 1" = 20' Hor.  
1" = 5' Vert.

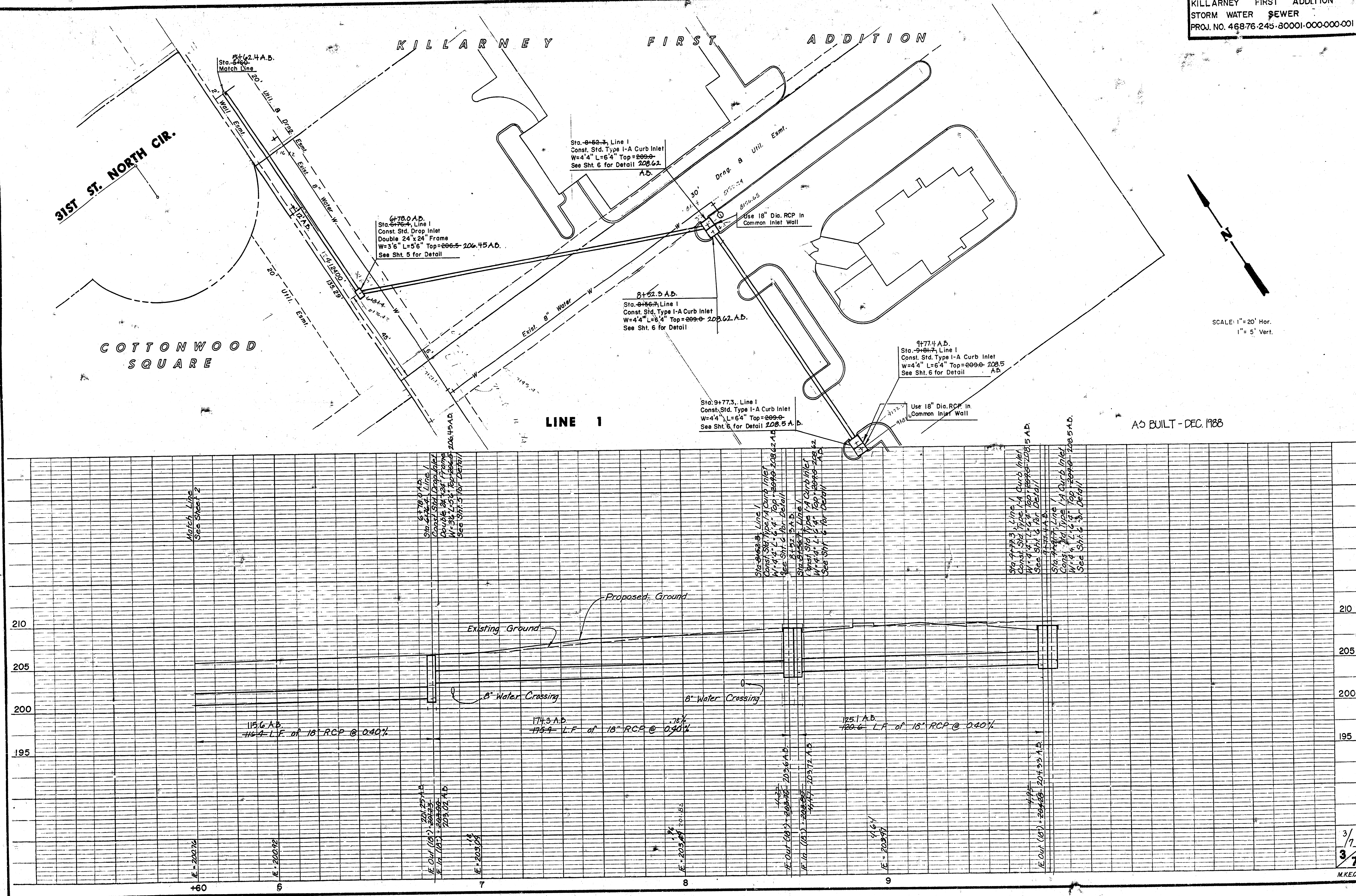


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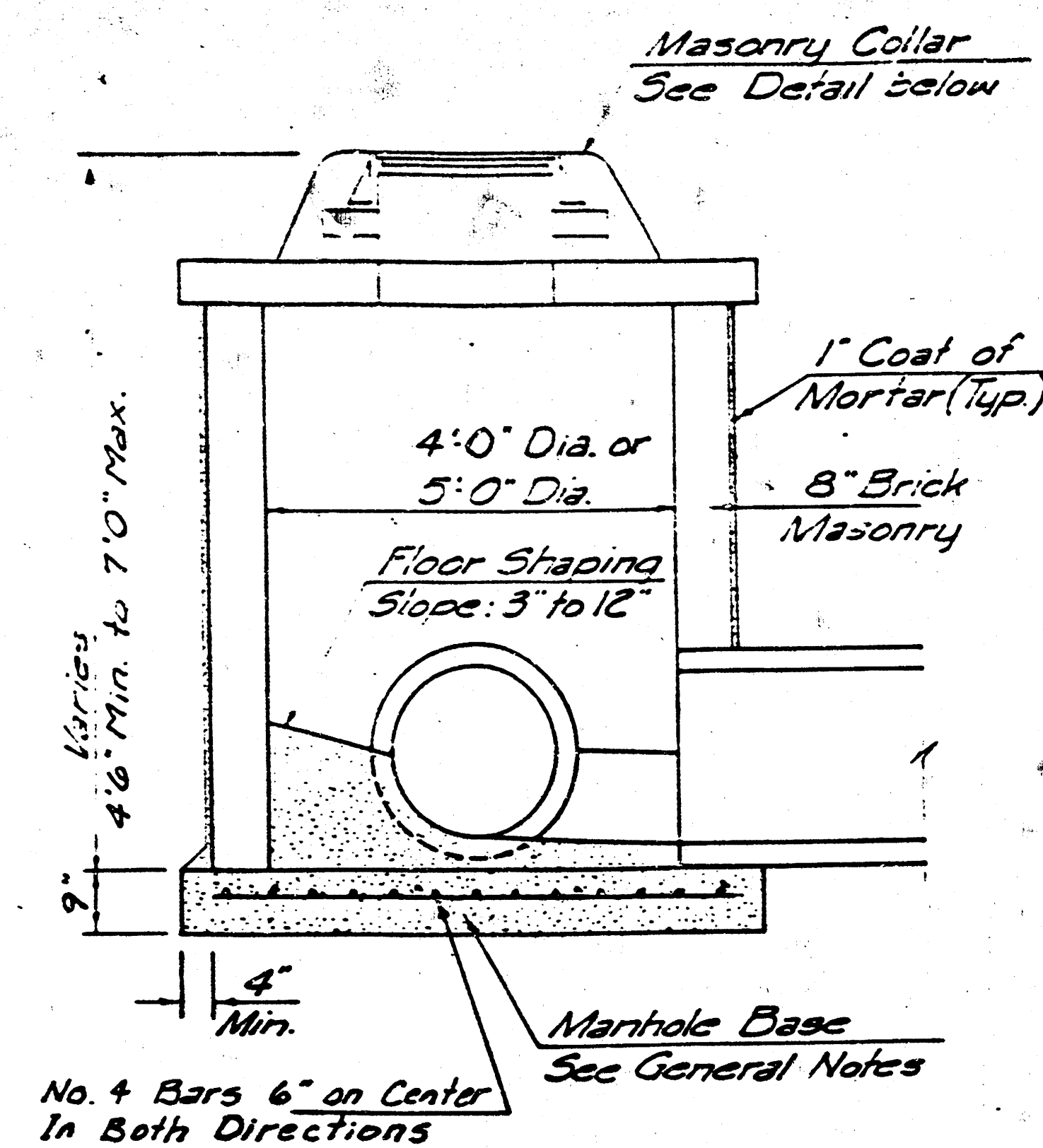
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STORM WATER SEWER  
PROJ. NO. 468-76-245-80001-000-000-001



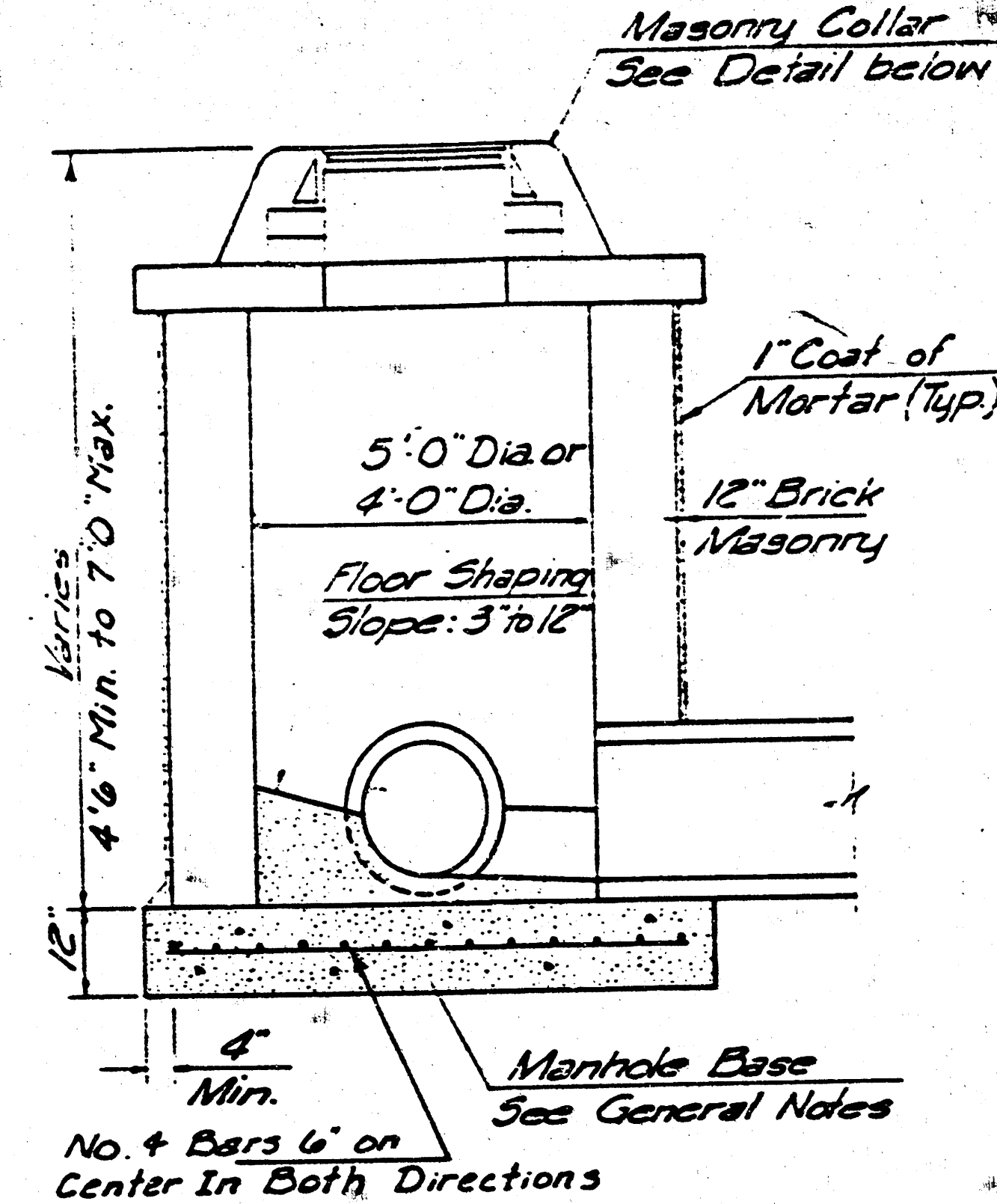
AS BUILT - DEC. 1988



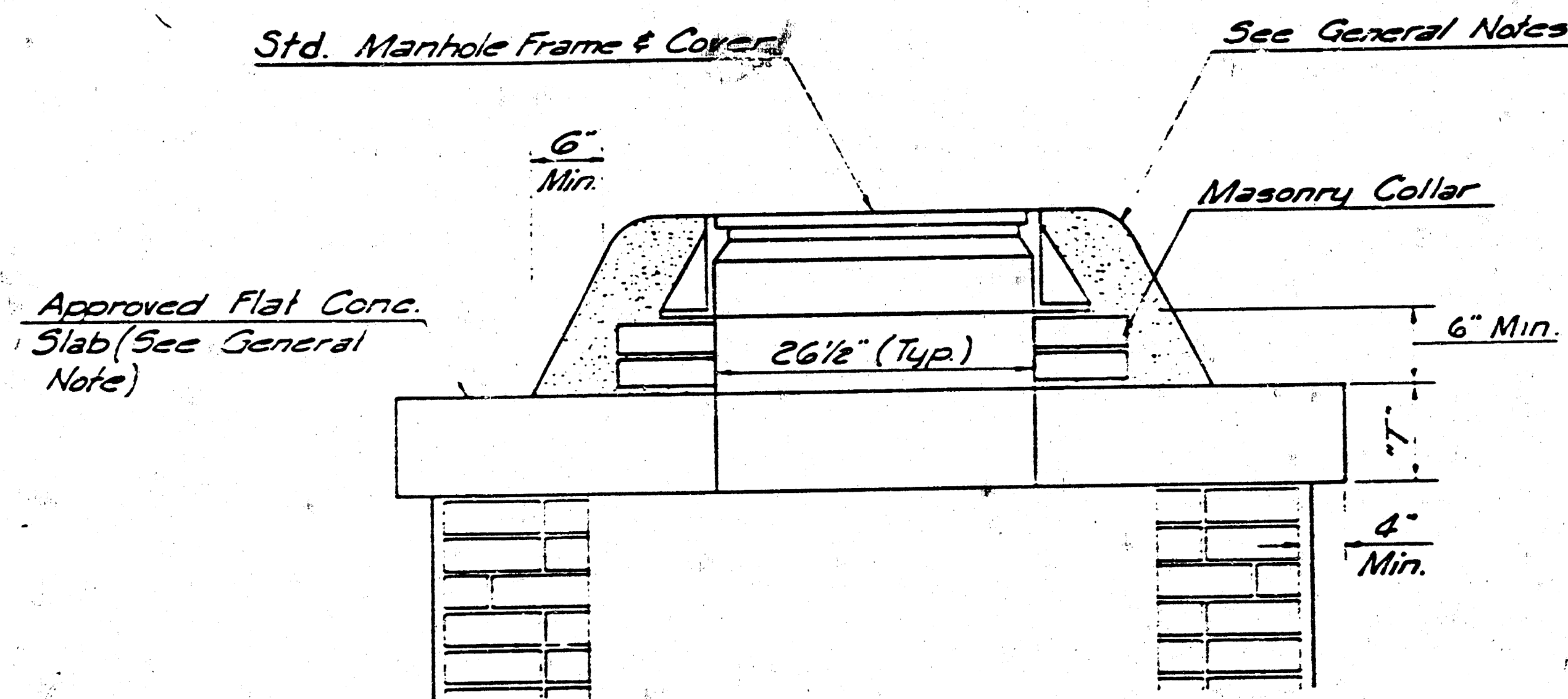
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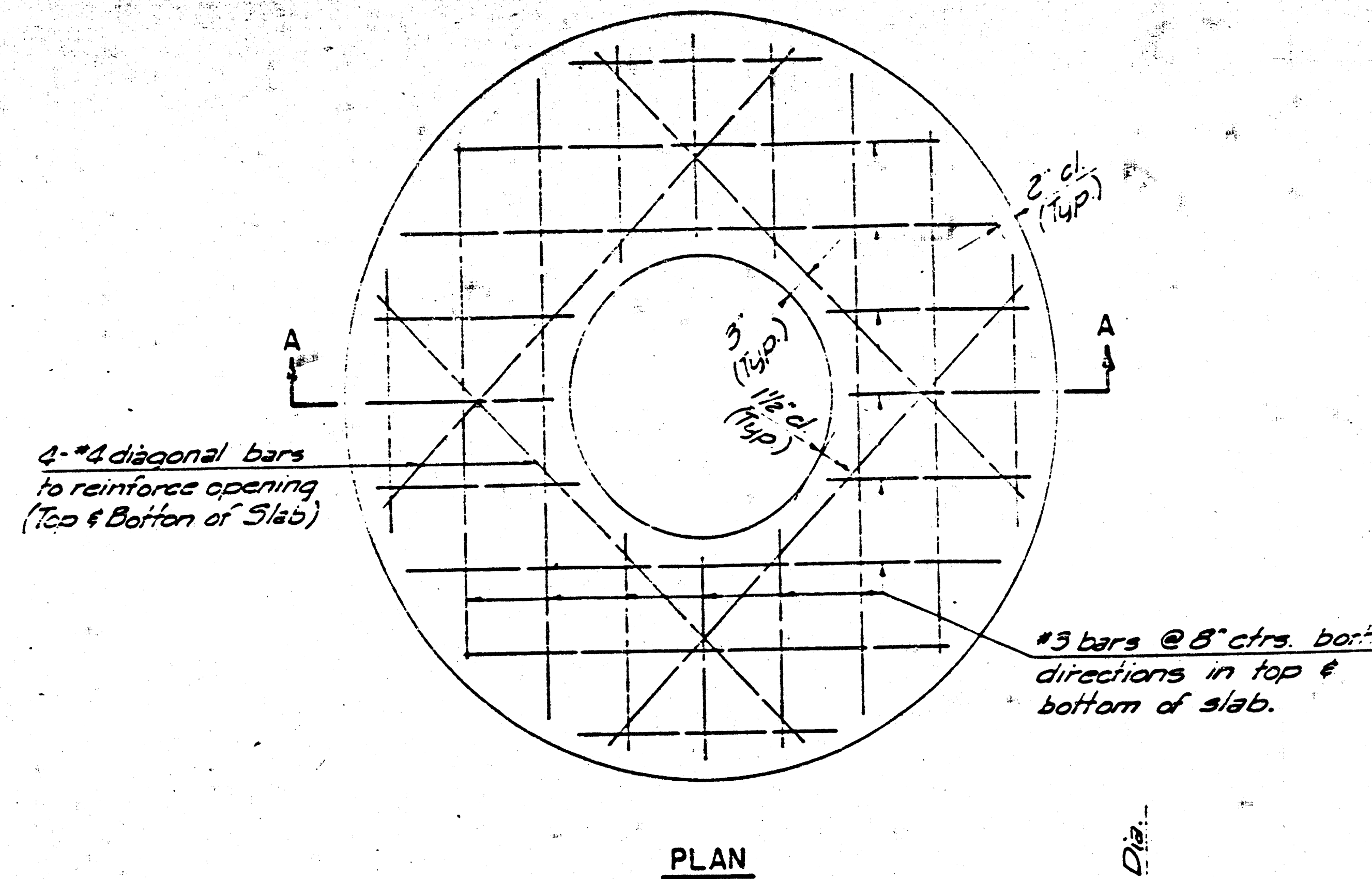
SHALLOW TYPE "A" MANHOLE



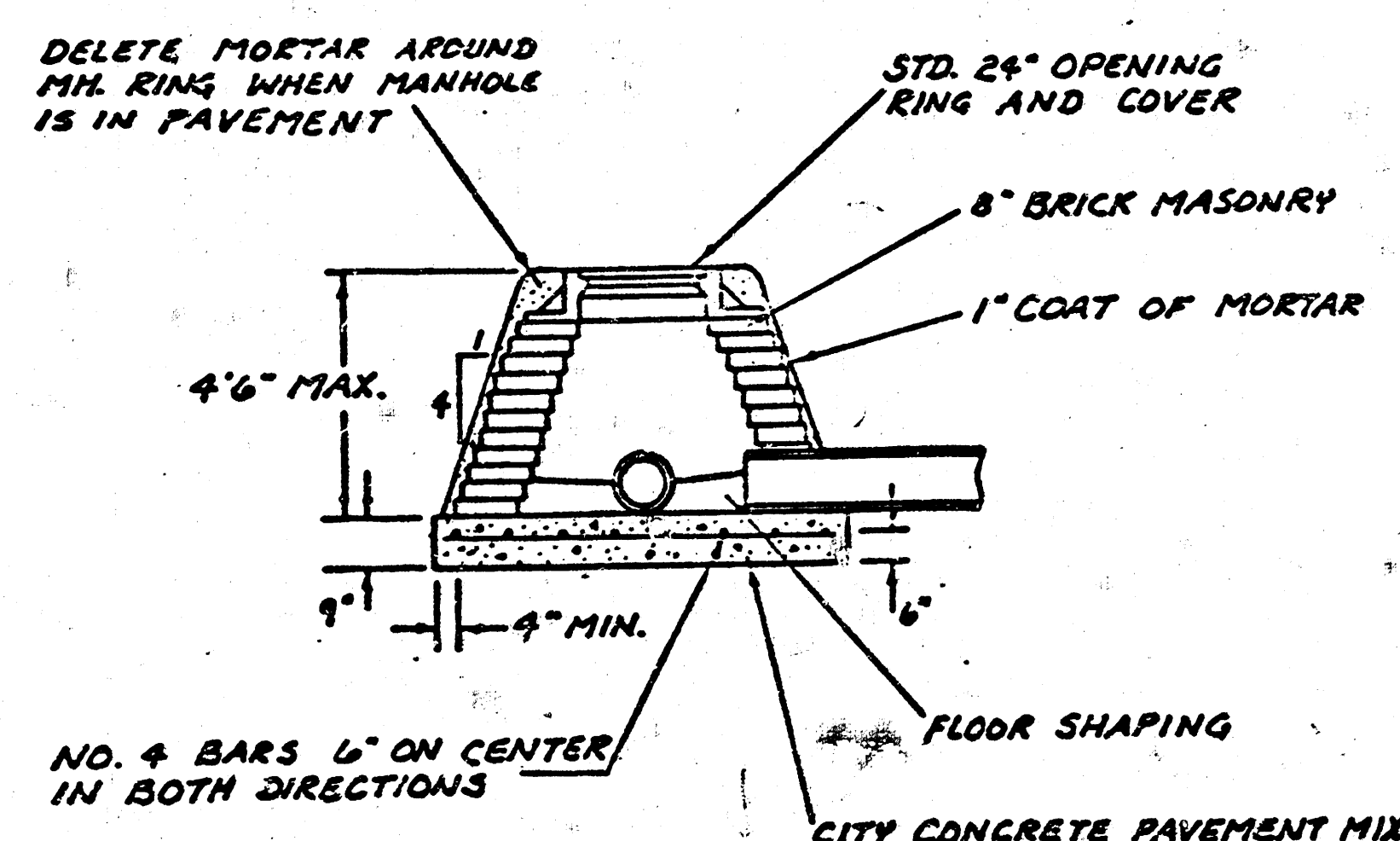
SHALLOW TYPE "B" MANHOLE



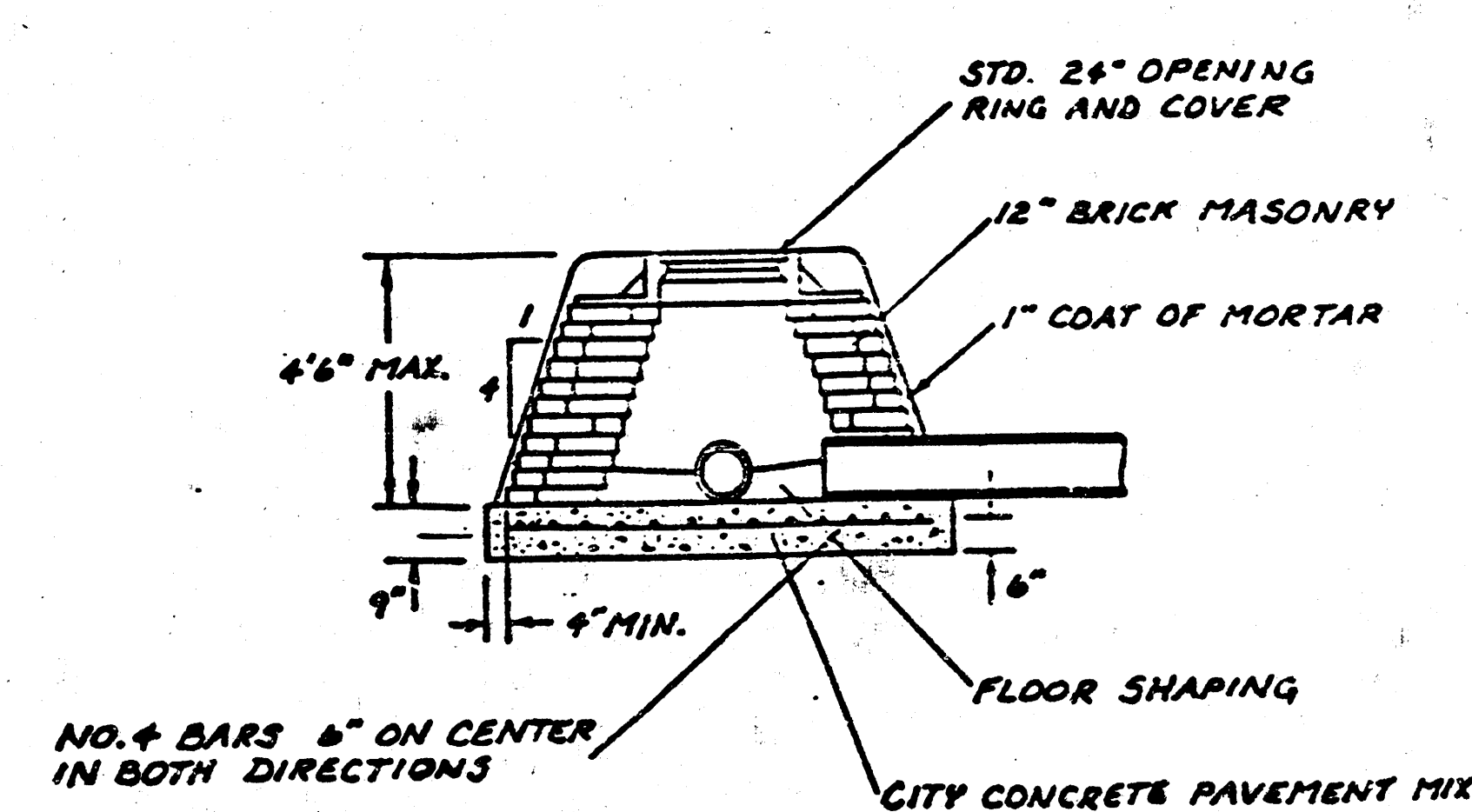
MASONRY COLLAR DETAIL



FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

GENERAL NOTES

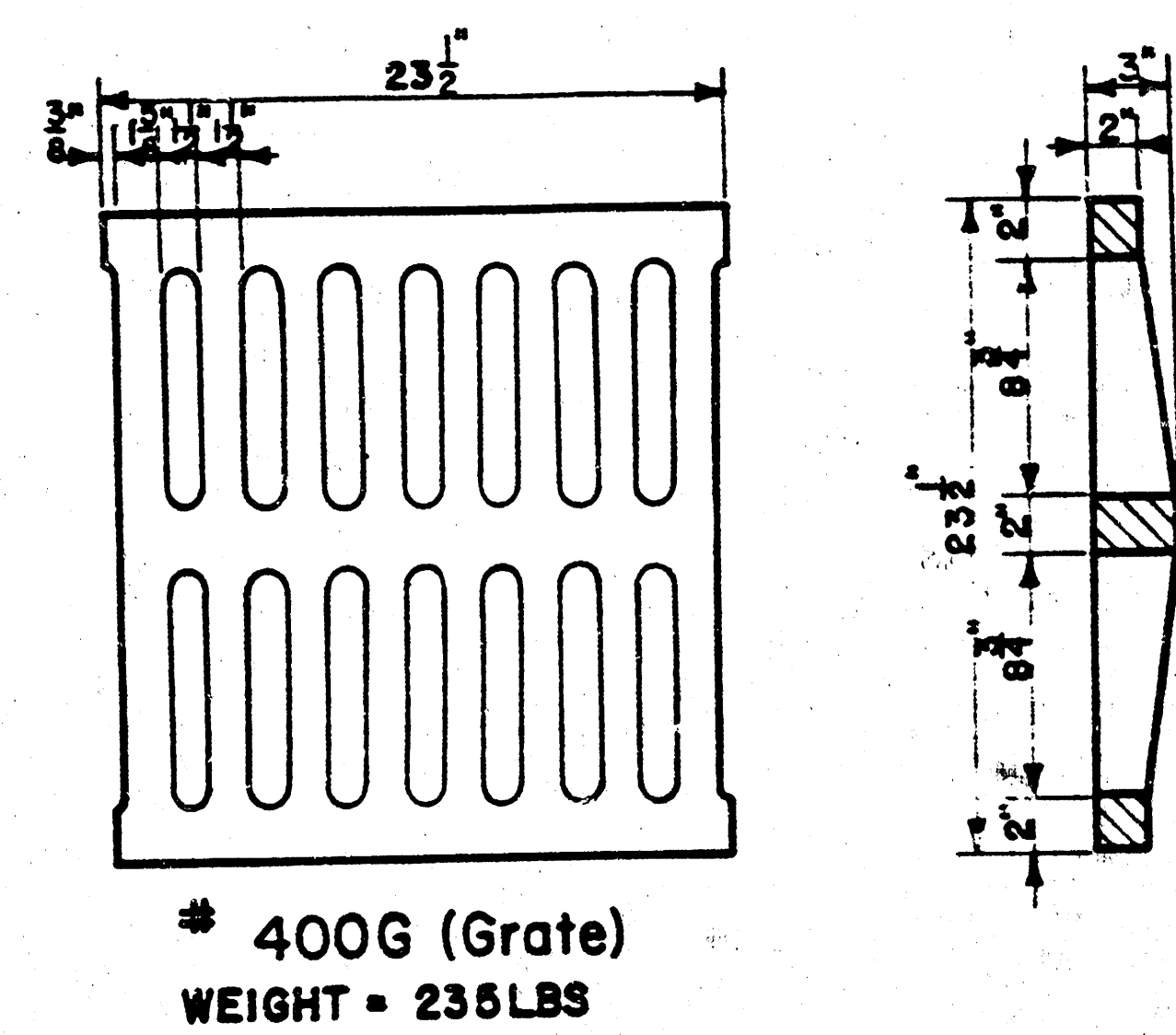
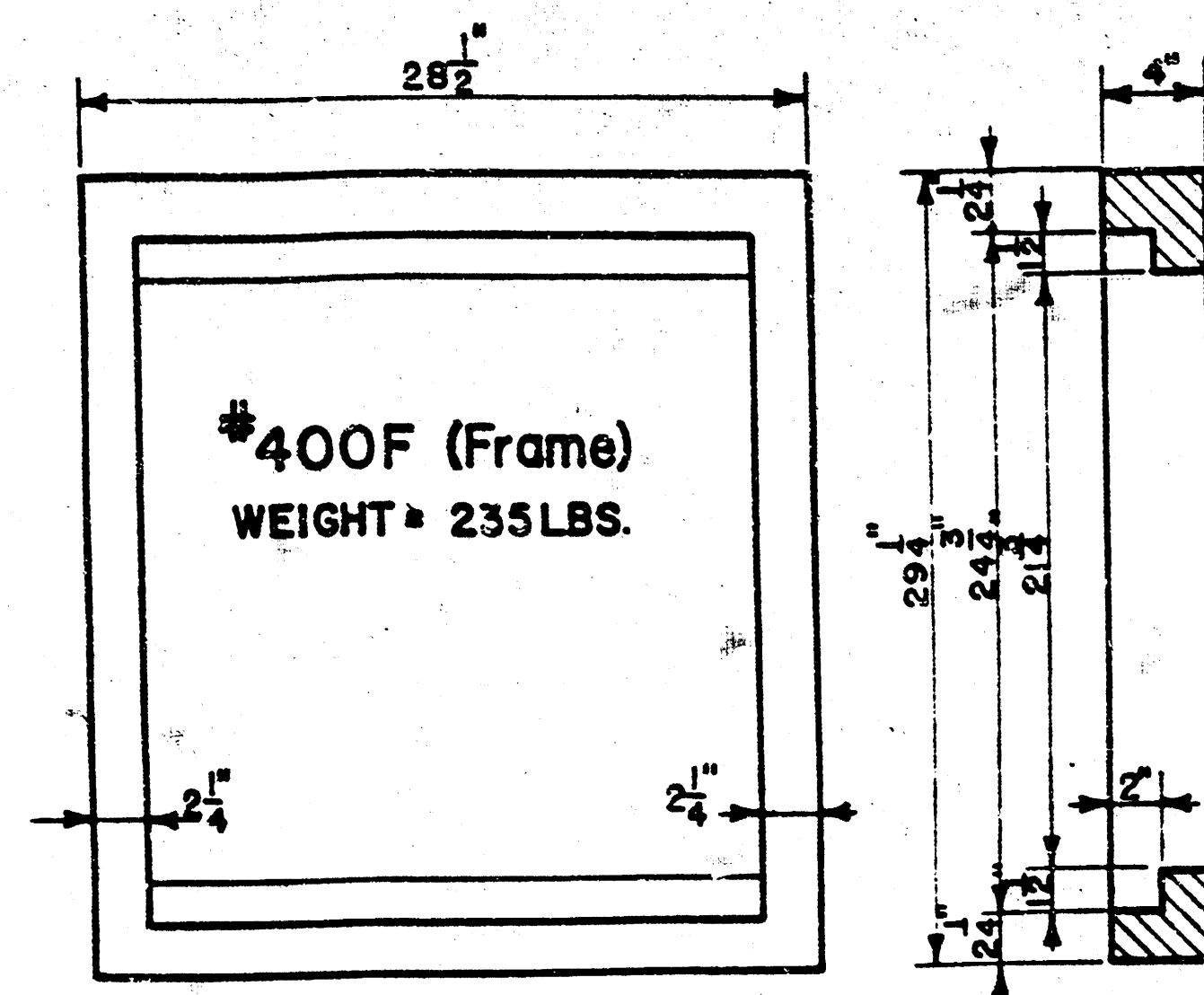
1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" SHALLOW MANHOLES CAN BE USED ON SEWERS WHEN THE MANHOLE IS NOT LOCATED WITHIN 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". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 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 TYPE MANHOLE.
3. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS 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. 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 NEAT 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.
4. 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 CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
5. 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 DRAWINGS.
6. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

CITY OF WICHITA, KANSAS  
STANDARD SHALLOW MANHOLES  
TYPE "A" AND TYPE "B"

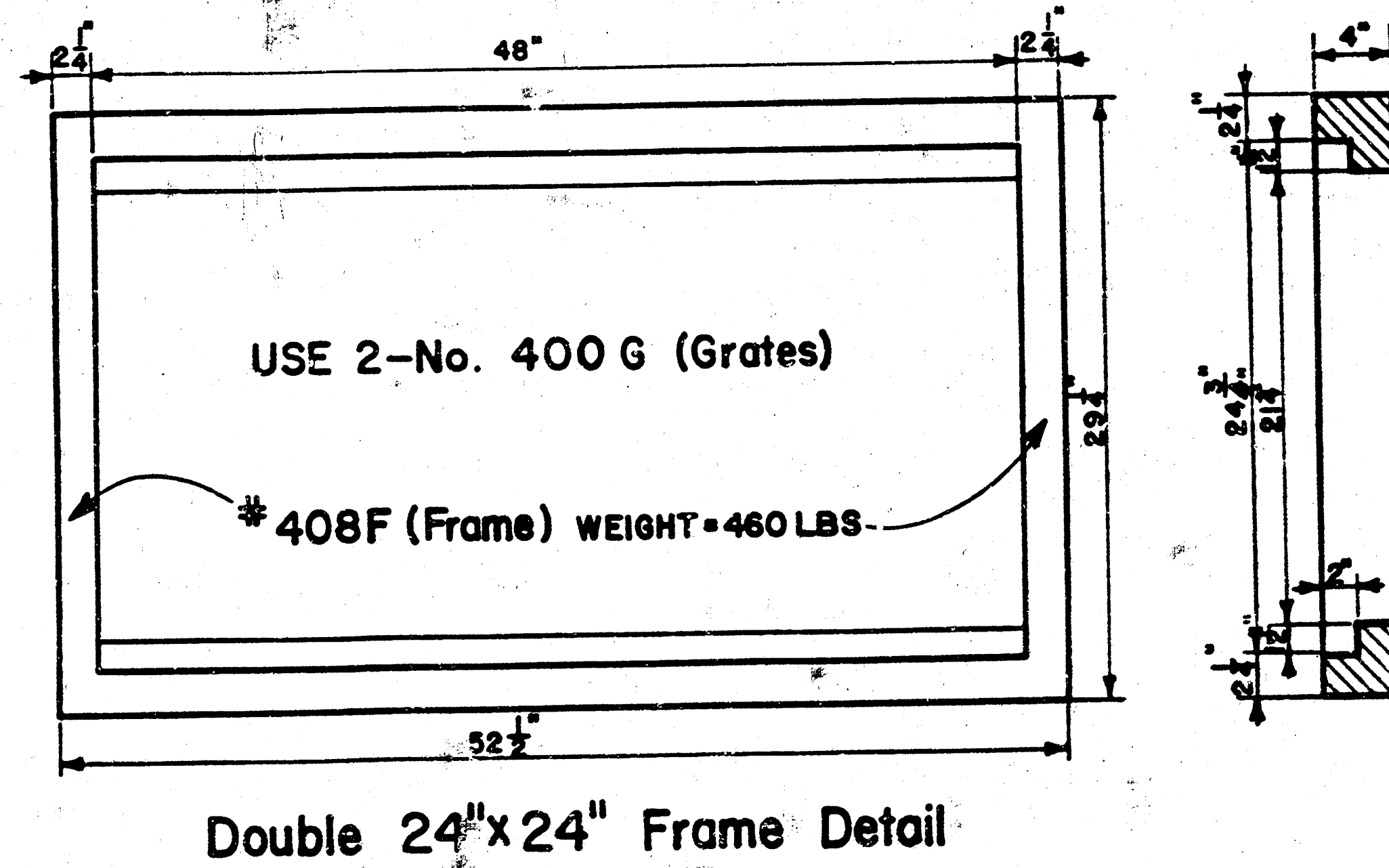
Designed by \_\_\_\_\_ Checked by \_\_\_\_\_  
Drawing No. \_\_\_\_\_ Date \_\_\_\_\_ Job No. \_\_\_\_\_

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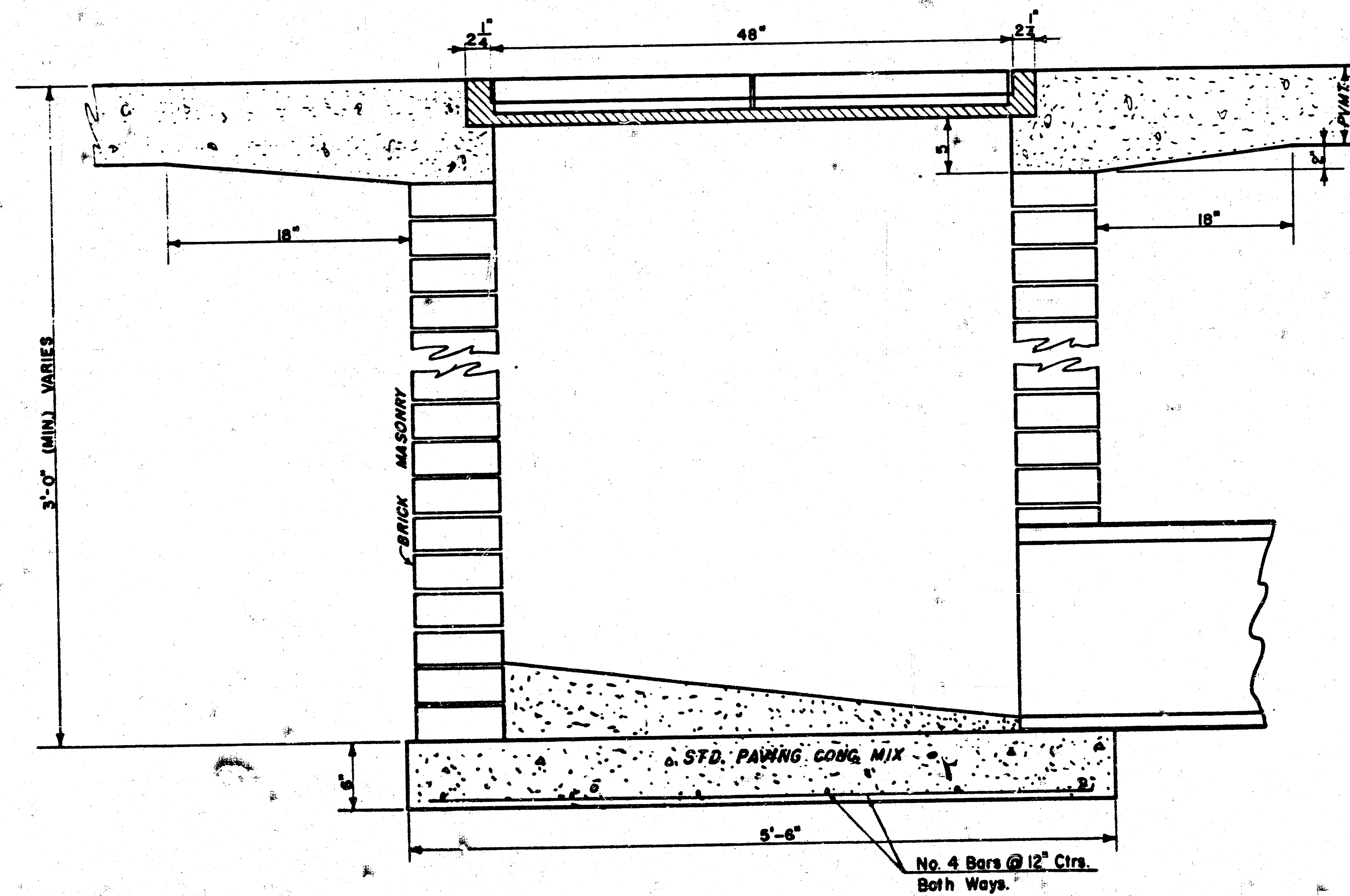
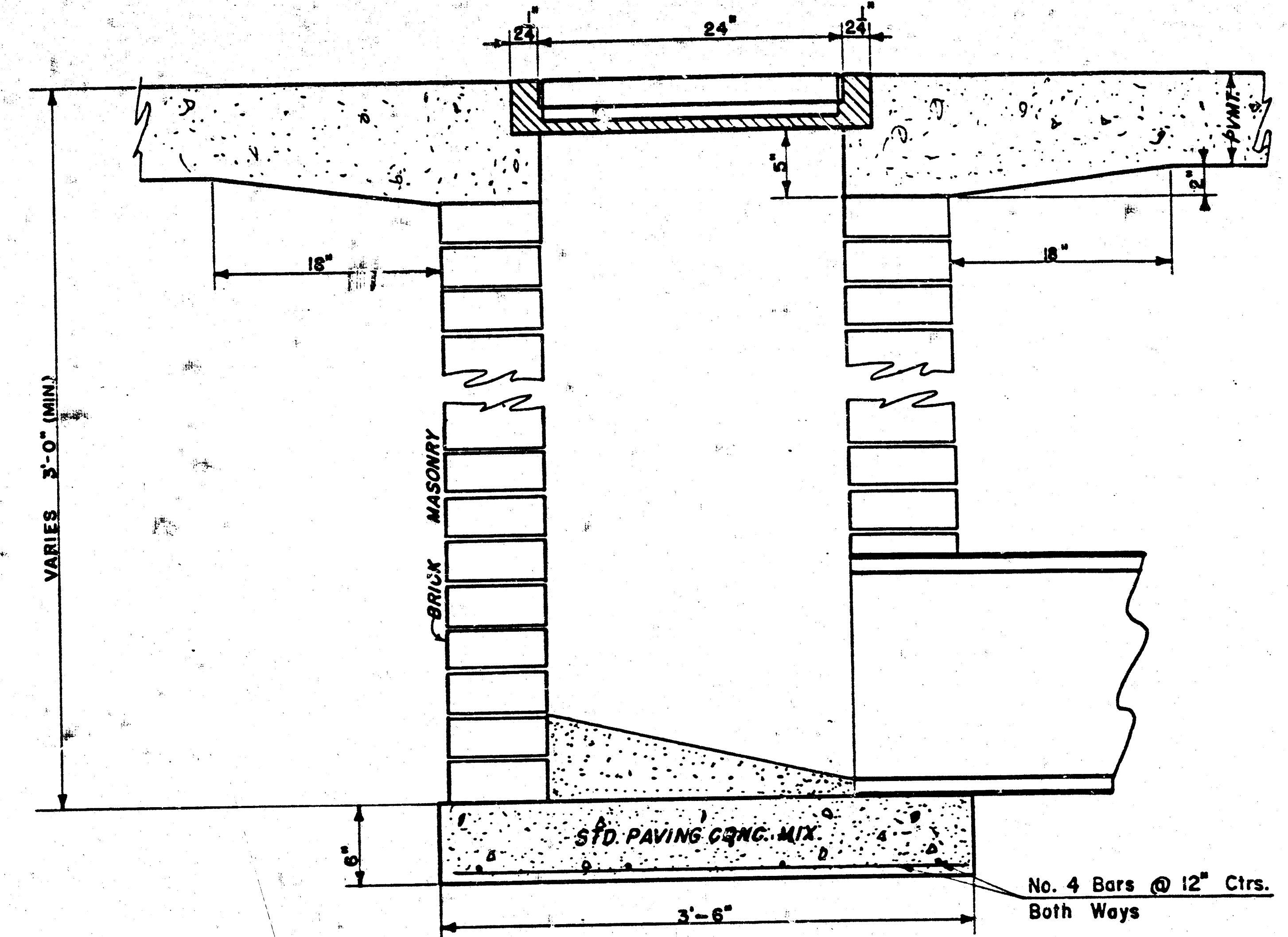
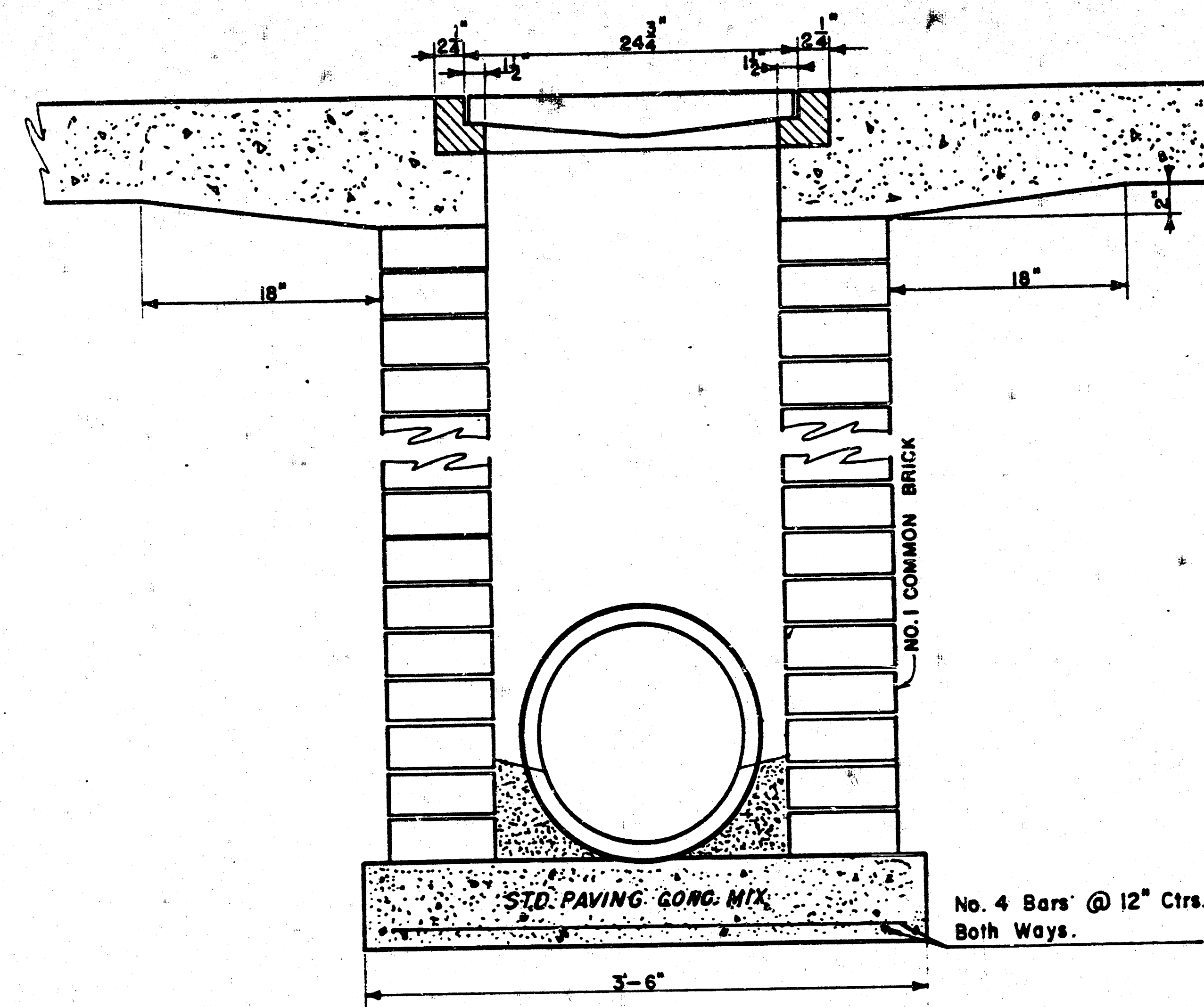
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.



24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail



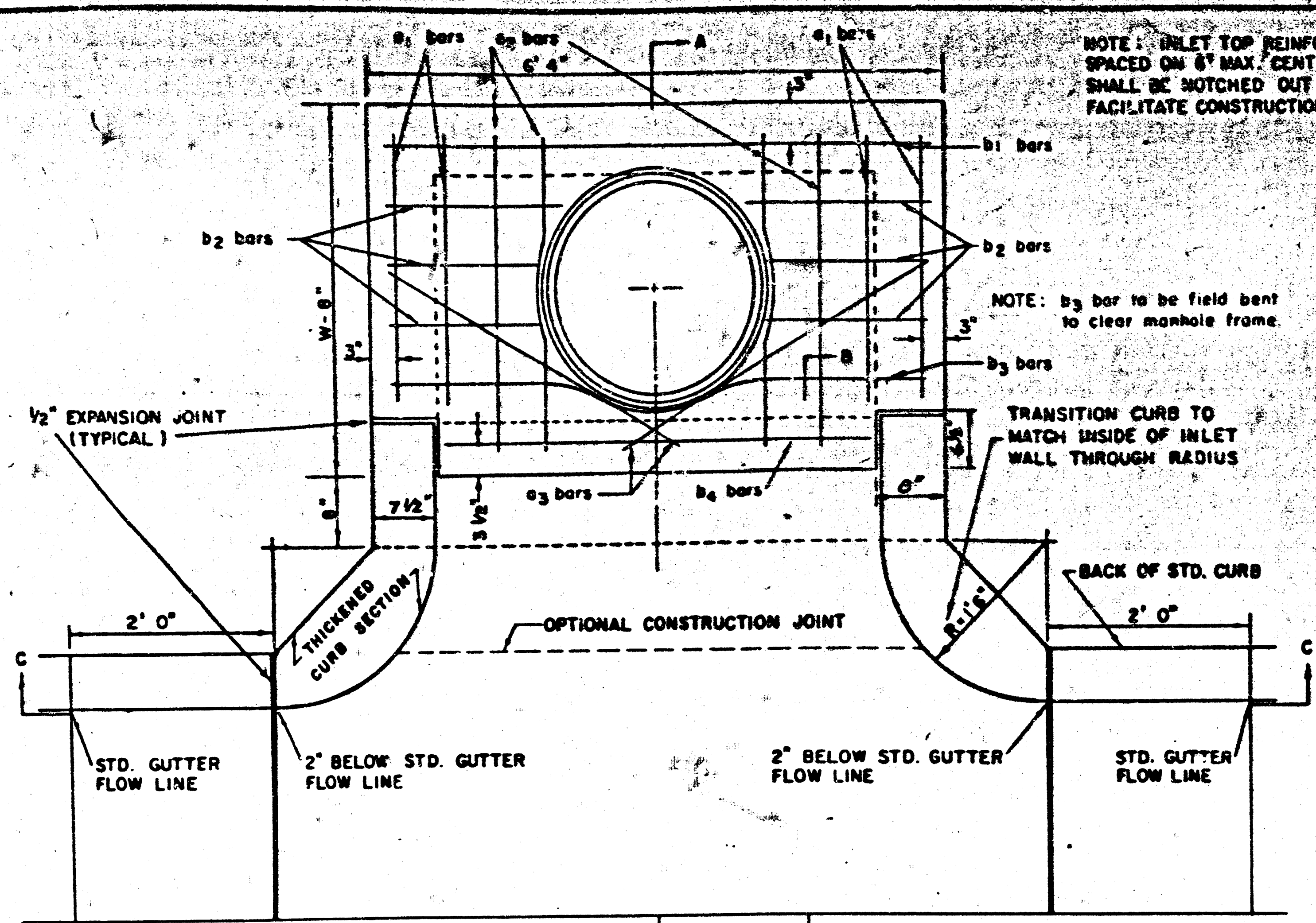
## DROP INLET DETAILS

M.E. Lindebak, City Engineer  
City of Wichita, Kansas

Project  
Project No.

Date:  
Scale: 1-1/2" = 1'-0"

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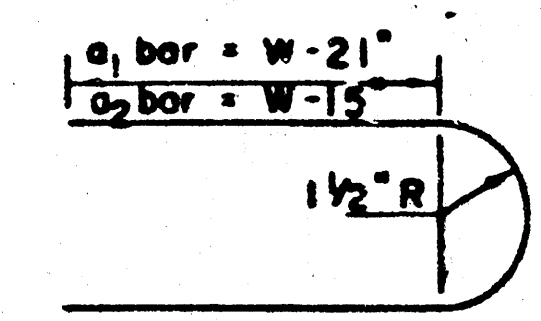


PLAN

STEEL SCHEDULE

| BAR    | a <sub>1</sub> | a <sub>2</sub> | a <sub>3</sub> | b <sub>1</sub> | b <sub>2</sub> | b <sub>3</sub> | b <sub>4</sub> | WT. LBS. |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| NUMBER | 4              | 4              | 2              | 1              | 3              | 5              | 7              | 80 ±     |
| SIZE   | #4             | #4             | #4             | #4             | #4             | #4             | #4             |          |
| LENGTH | W+4' 4"        | 5' 7"          | 6' 7"          | 4' 0"          | 6' 1"          | -              | -              |          |
|        | W+5' 4"        | 7' 7"          | 8' 7"          | 5' 0"          | -              | 6' 1"          | -              | 81 ±     |
|        | W+6' 4"        | 9' 7"          | 10' 7"         | 6' 0"          | -              | 6' 1"          | -              | 101 ±    |
|        | W+7' 4"        | 11' 7"         | 12' 7"         | 7' 0"          | -              | 6' 1"          | -              | 121 ±    |
|        | W+8' 4"        | 13' 7"         | 14' 7"         | 8' 0"          | -              | 6' 1"          | -              | 141 ±    |

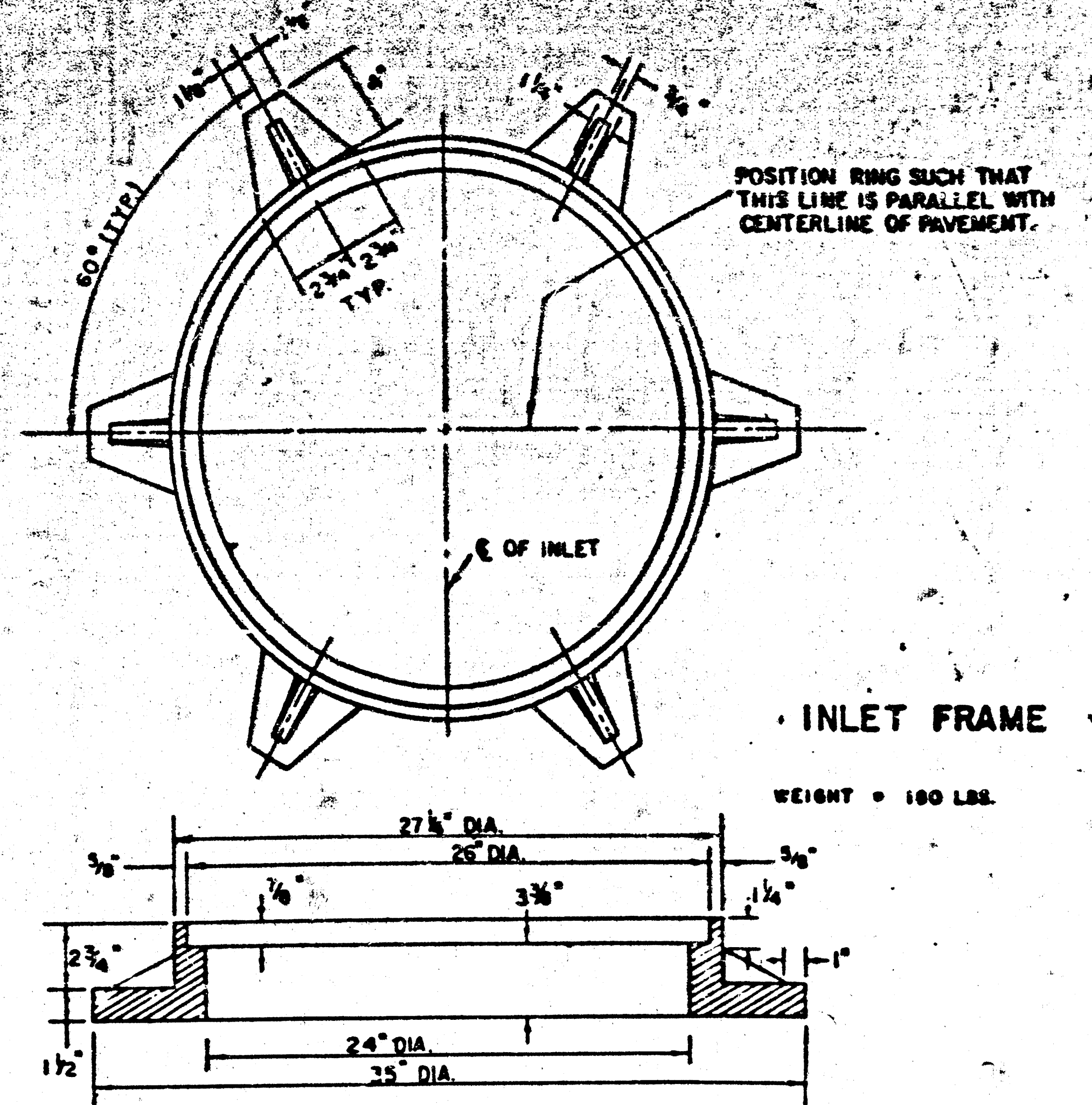
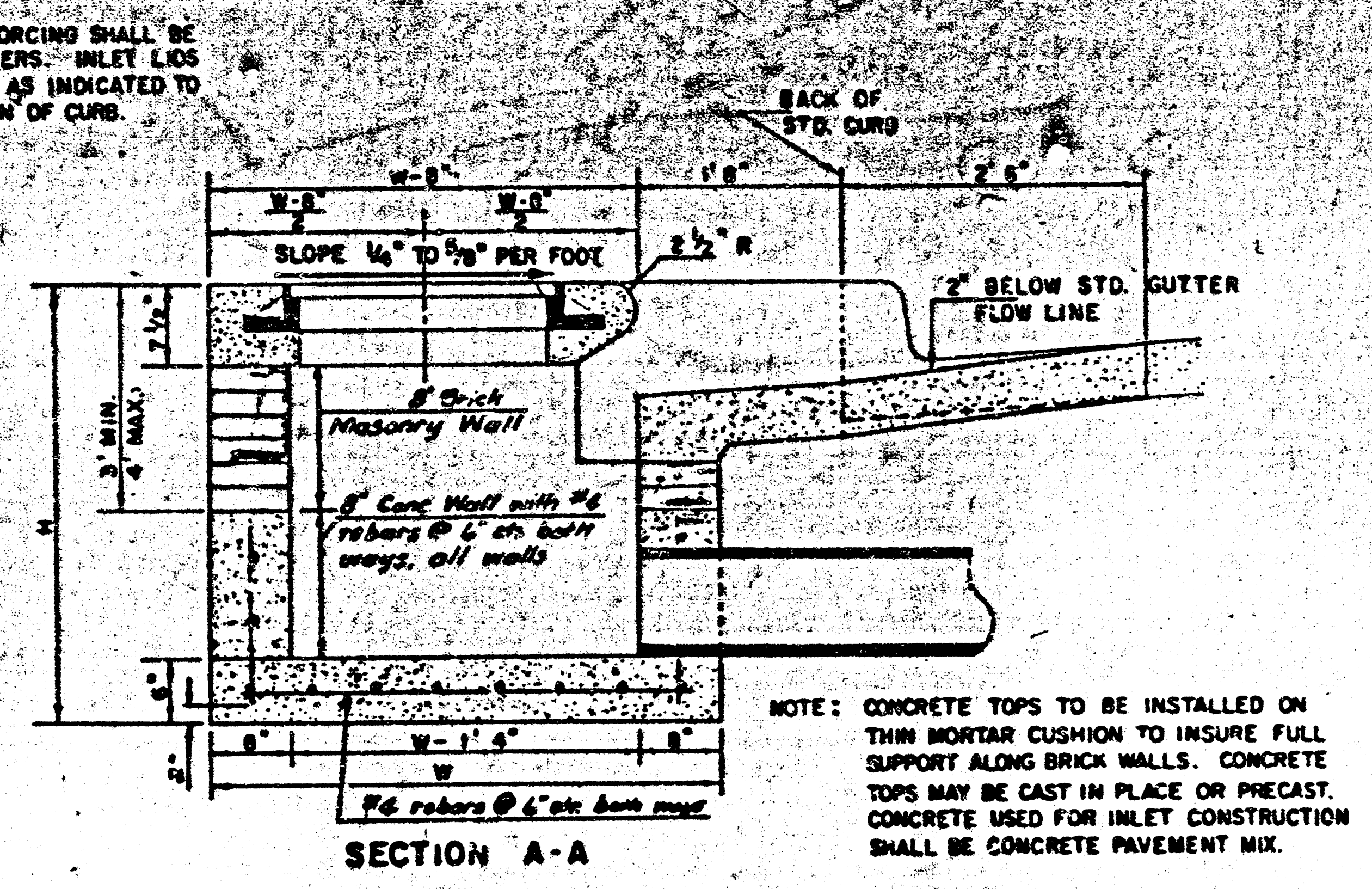
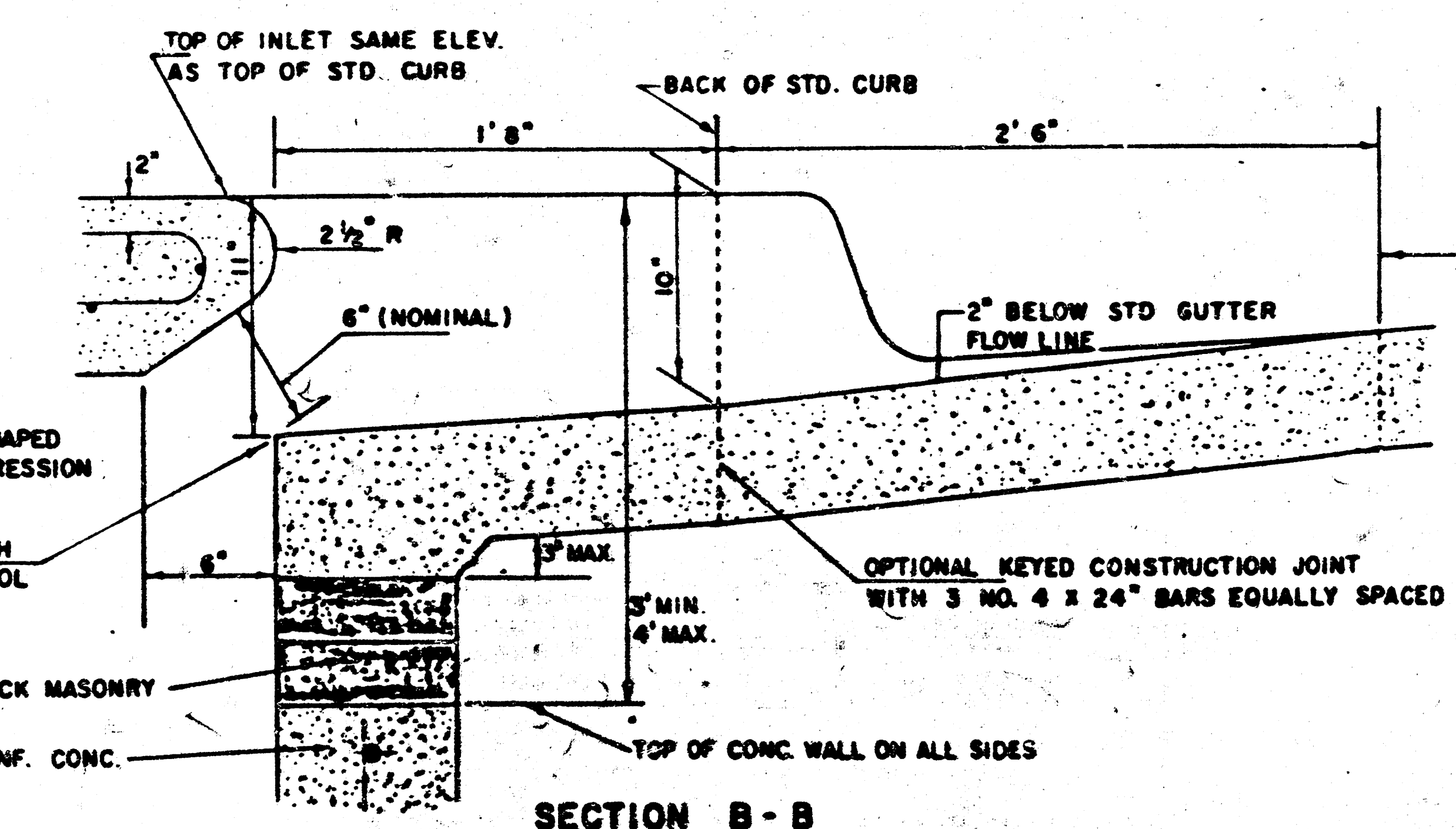
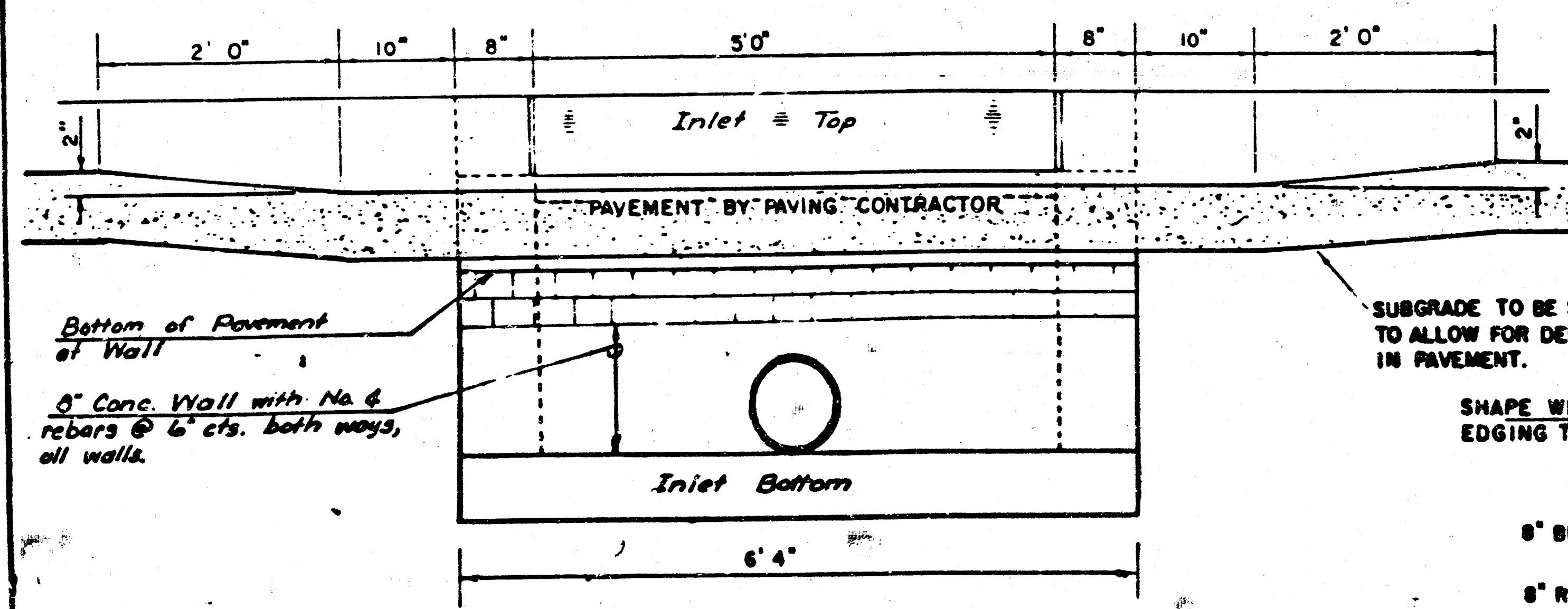
\* NOTE: a<sub>3</sub> BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

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



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

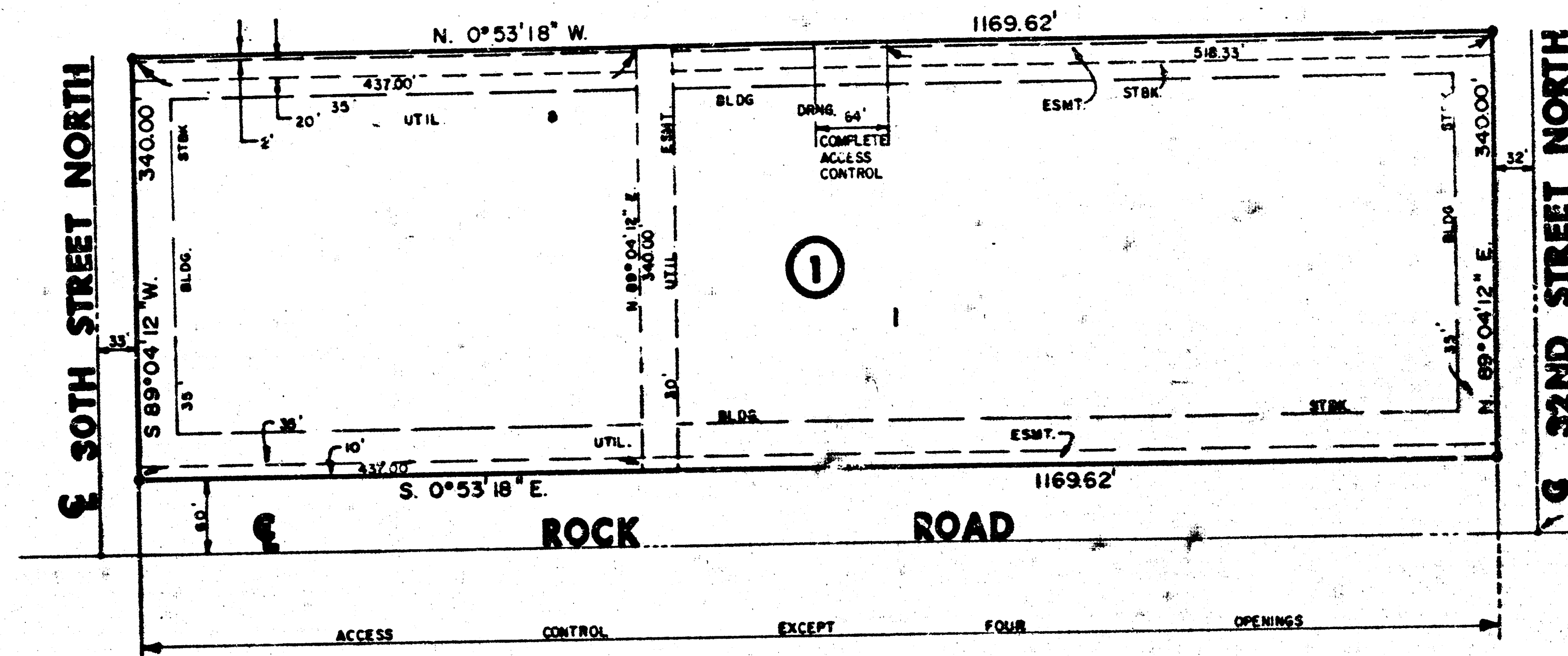
REVISED 12-2-1984

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

JUNE 1984

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FINAL PLAT OF  
**KILLARNEY FIRST ADDITION**  
AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



I, Kenneth H. Bengtson, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "KILLARNEY FIRST ADDITION" an addition to Wichita, Sedgwick County, Kansas, into a Lot, a Block, and Streets, the same being accurately set forth in the accompanying plat and described herein:

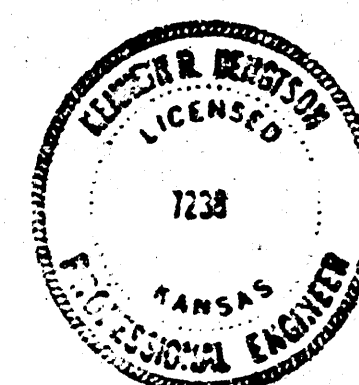
A tract of land lying in the Southeast Quarter of Section 31, Township 26 South, Range 2 East of the 6th P.M., more particularly described as follows:

A replat of Lot 1, Block 3, Cottonwood Square, an Addition to Wichita, Sedgwick County Kansas, EXCEPT therefrom a tract described as beginning at a point on the South line of 32nd Street North, said point being 825.05 feet South bearing S 00° 53' 18" E and 50.00 feet West bearing S 89° 04' 12" W, from the Northeast corner of the Southeast Quarter of Section 31, Township 26 South, Range 2 East; thence Southerly parallel to the East line of said section bearing S 00° 53' 18" E, 1169.62 feet to a point on the North line of 30th Street North; thence Westerly along said North line bearing S 89° 04' 12" W, 10.00 feet; thence N 00° 53' 18" W, 1169.62 feet; thence N 89° 04' 12" E, 10.00 feet to the point of beginning.

Access control to Rock Road within the above described property is vacated and replatted by virtue of K.S.A. 12-512(b).

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 26 day of November, 1986.

Kenneth H. Bengtson  
Kenneth H. Bengtson, P.E.  
Mid-Kansas Engineering Consultants, P.A.  
3500 N. Rock Road, Building 9800



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 platted into a street, a lot and block, the same to be known as "KILLARNEY FIRST ADDITION" an addition to Wichita, Sedgwick County, Kansas. The street is 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. All abutters rights of access to or from the West line of Rock Road and the East line of Lot 1, Block 1, "KILLARNEY FIRST ADDITION," and the East line of 31st Street North Circle from Lot 1, Block 1, "KILLARNEY FIRST ADDITION" are hereby granted to the City of Wichita, provided however, Lot 1, Block 1, shall have access to Rock Road at 4 locations as shall be determined by the City Engineer.

KILLARNEY INVESTMENTS, INC.

By: Virginia A. Abiah  
Virginia A. Abiah, President

STATE OF KANSAS  
SEDGWICK COUNTY

Be it remembered that on this 26th day of November, 1986, before me a Notary Public in and for said State and County, came Killarney Investments Inc., by Virginia A. Abiah, President, 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.

Kathleen R. Dettmer, Notary Public  
KATHLEEN R. DETTMER

My Appointment Expires: April 18, 1987

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

Dated this 13th day of November, 1986.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

John Terry Gore, Chairman  
Michael E. Etardak, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 9th day of December, 1986.

Tony Casado, Mayor

Debra L. Pica, City Clerk

Entered on transfer record this \_\_\_ day of \_\_\_, 1986.

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 \_\_\_ day of \_\_\_, 1986.

F. J. Kottler, Register of Deeds

Ed Rosa, Deputy

17 8 1 13 7

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