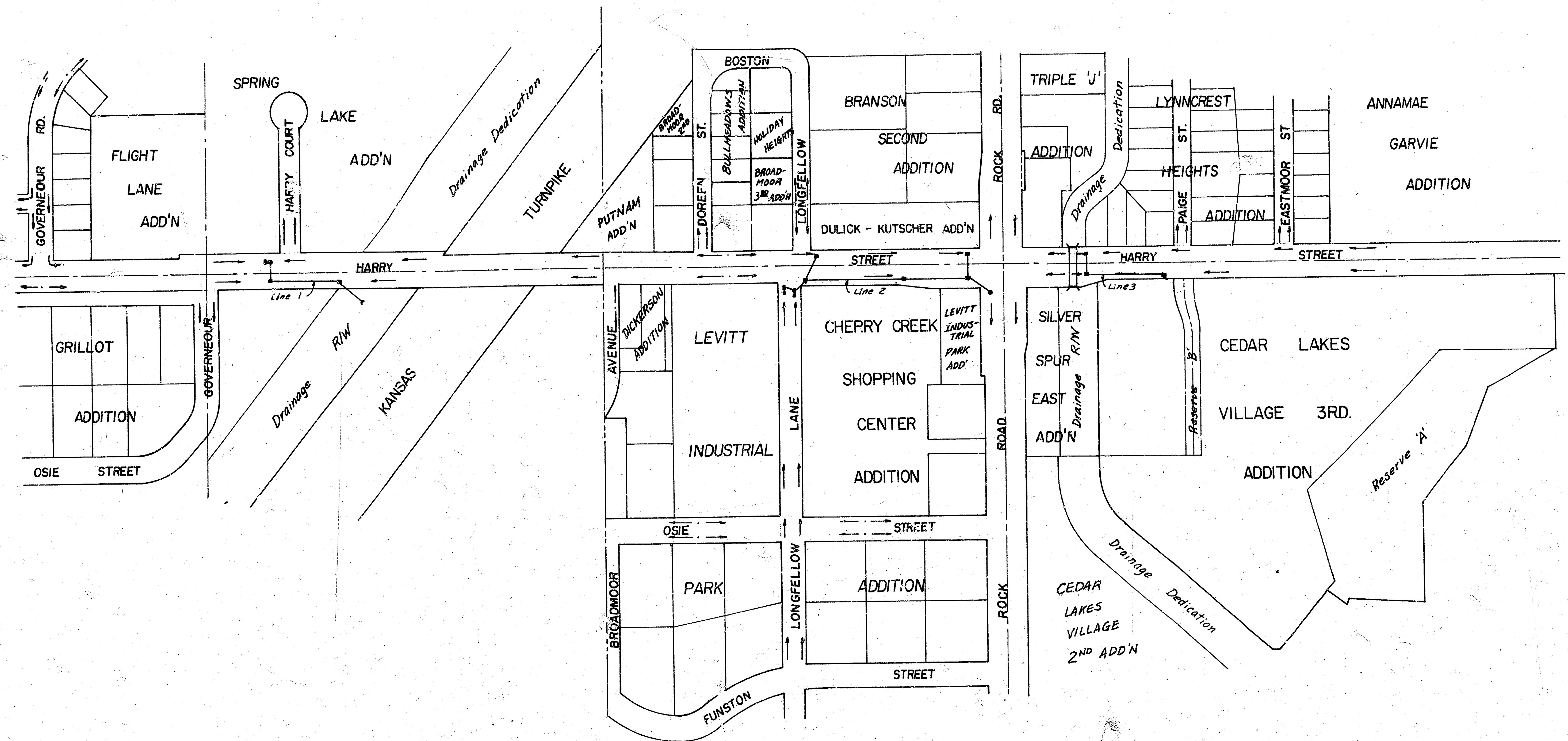
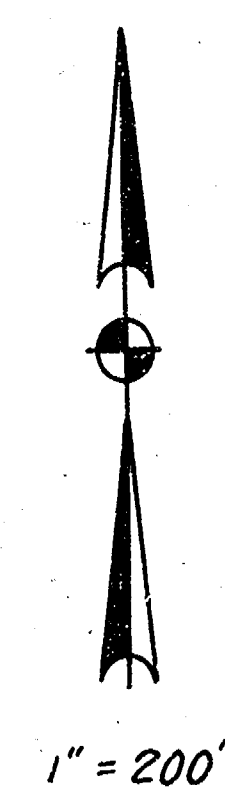


# DRAINAGE IN CONNECTION WITH PAVING HARRY STREET



## GENERAL NOTES

- 1.) CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS, AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.
- 2.) FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND TRIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND TRIMBLES DISTURBED DURING CONSTRUCTION.
- 3.) 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.
- 4.) ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.
- 5.) THE CONTRACTOR SHALL AVOID REMOVING ANY TREES UNLESS IT IS ABSOLUTELY NECESSARY. CONTRACTOR IS TO TAKE WHATEVER PRECAUTION THE ENGINEER DEEMS NECESSARY (SHORING, SHIELDING, ETC.) TO INSURE THAT THE TREES IN THE VICINITY OF CONSTRUCTION ARE PROTECTED FROM INJURY (COST INCIDENTAL TO PROJECT).
- 6.) CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.
- 7.) CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING PRE-CAST TYPE 1A CURB INLET IN LIEU OF THE BRICK TYPE STRUCTURE. SEE STANDARD DETAIL PRE-CAST TYPE 1A CURB INLET DATED AUGUST, 1979.

## Index

### Sheet No.

- |     |                |
|-----|----------------|
| 1   | Cover Sheet    |
| 2   | Line 1         |
| 3,4 | Line 2         |
| 5   | Line 3         |
| 6   | Type 1A Inlet  |
| 7   | Type 1 Inlet   |
| 8   | Type B Manhole |
| 9   | Headwall       |

DEAN SELLERS, ACTING CITY ENGINEER  
CITY OF WICHITA, KANSAS

PROJECT NO. 472 76 245 80641 000 000 002

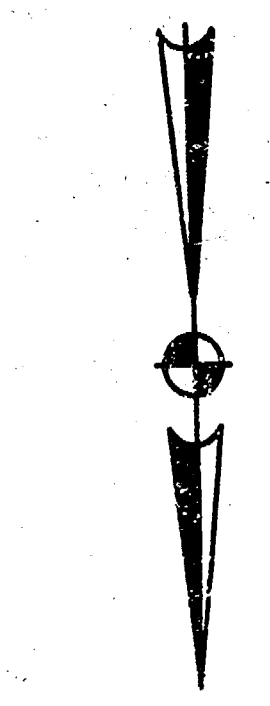
DATE: \_\_\_\_\_



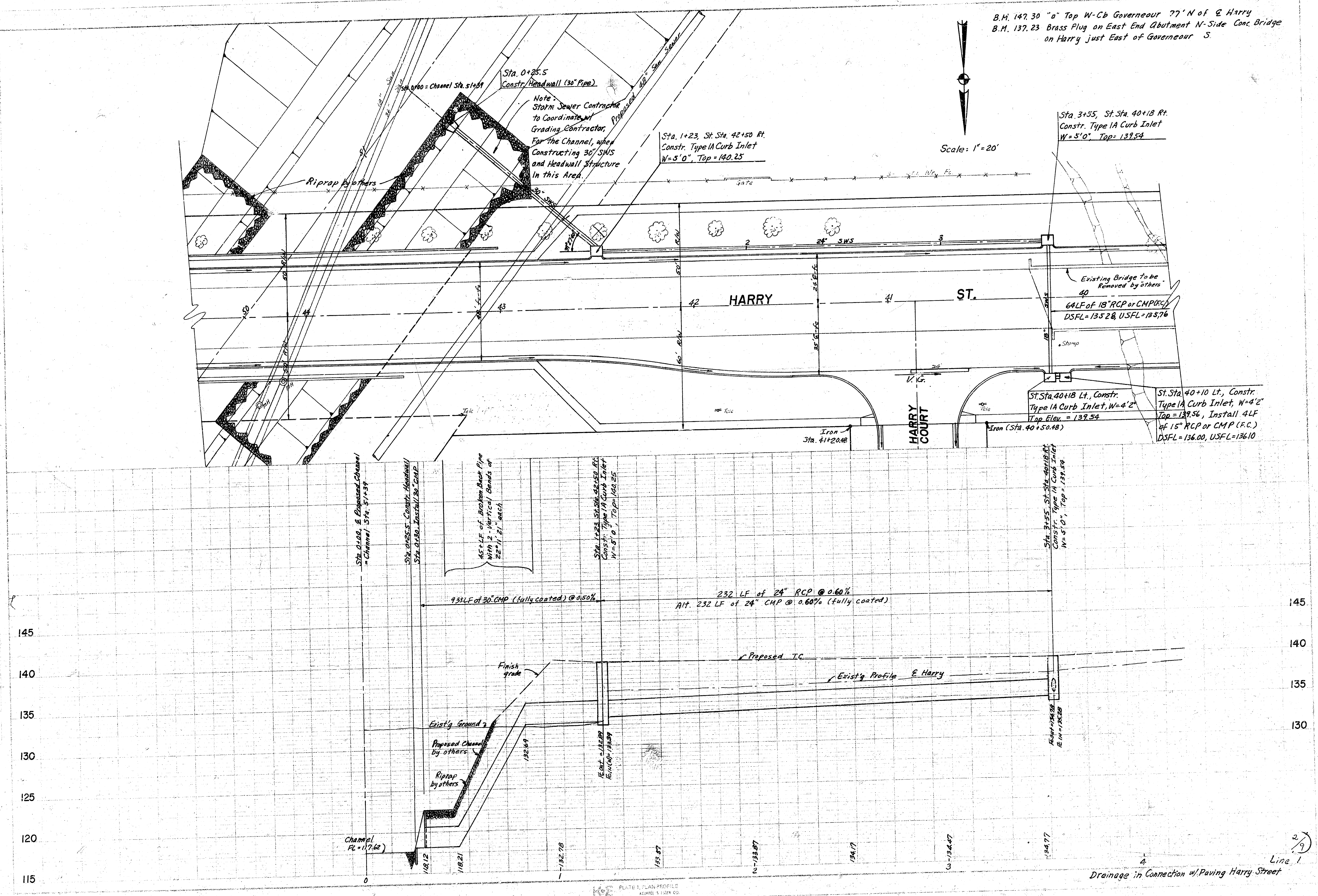
FILED  
 PLANS  
 DUC 20  
 DUC 21

PLANS  
 DUC 20  
 DUC 21

B.M. 147.30 "a" Top W-Cb Gouverneur 77' N of E Harry  
 B.M. 137.23 Brass Plug on East End Abutment N-Side Conc. Bridge  
 on Harry just East of Gouverneur S.



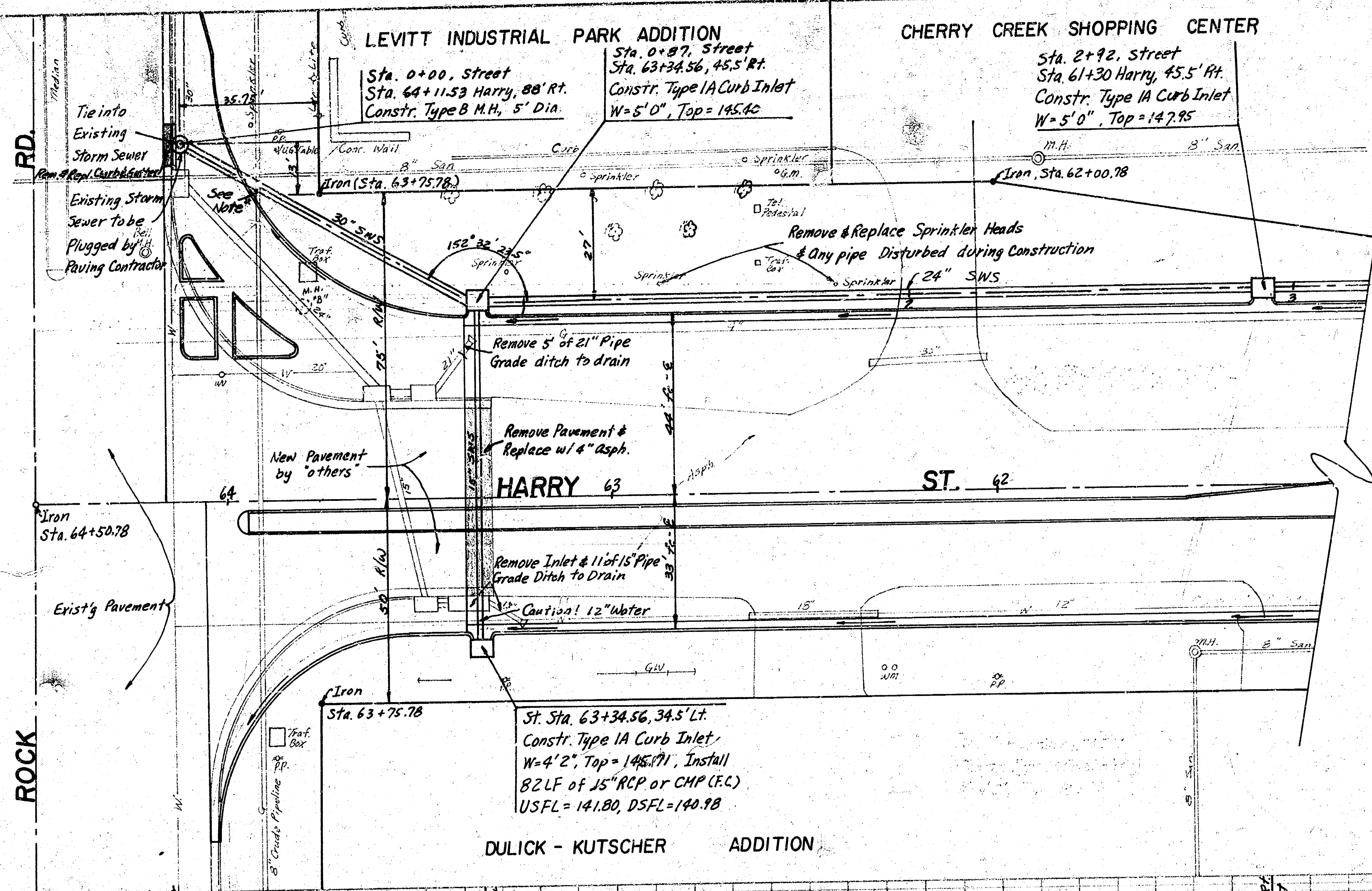
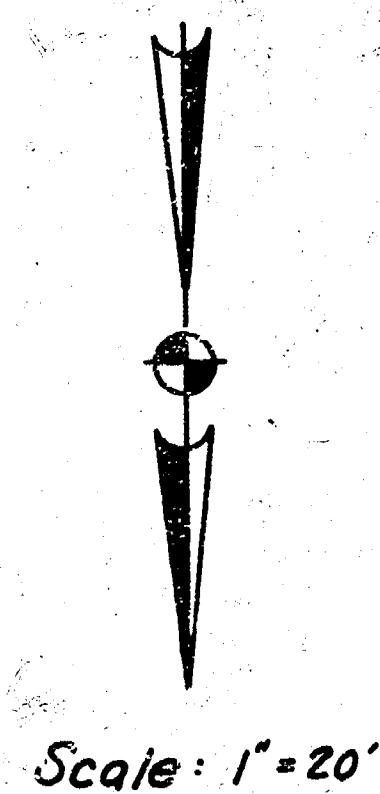
Scale: 1" = 20'



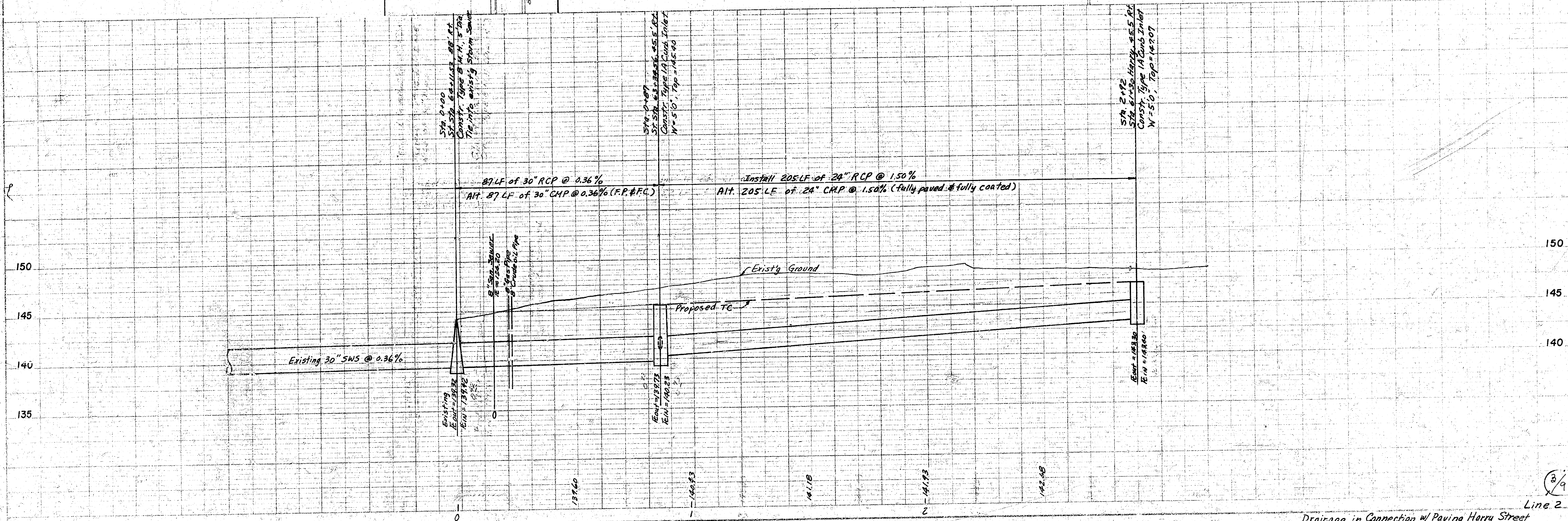
Drainage in Connection w/ Paving Harry Street

FILMED FROM THE BEST AVAILABLE COPY.....

B.M. 145.12 "x" Cut in "a" Ctr. Median & Rock Rd.  
N.L. of Harry  
B.M. 154.22 "a" Top W-Cb Longfellow 59' N of & Harry



\* NOTE: CONTRACTOR SHALL CONTACT MR. DWAIN VERNON OF CONTINENTAL PIPELINE COMPANY AT (316) 794-8356 FOR LOCATION OF THE CRUDE PIPELINE AT LEAST 24 HOURS PRIOR TO BEGINNING WORK IN THE PIPELINE AREA. IF MR. VERNON CANNOT BE REACHED, CALL (316) 824-6520 or (405) 767-2382.



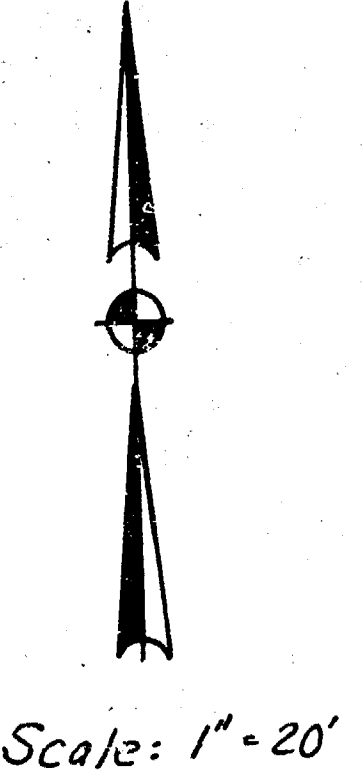
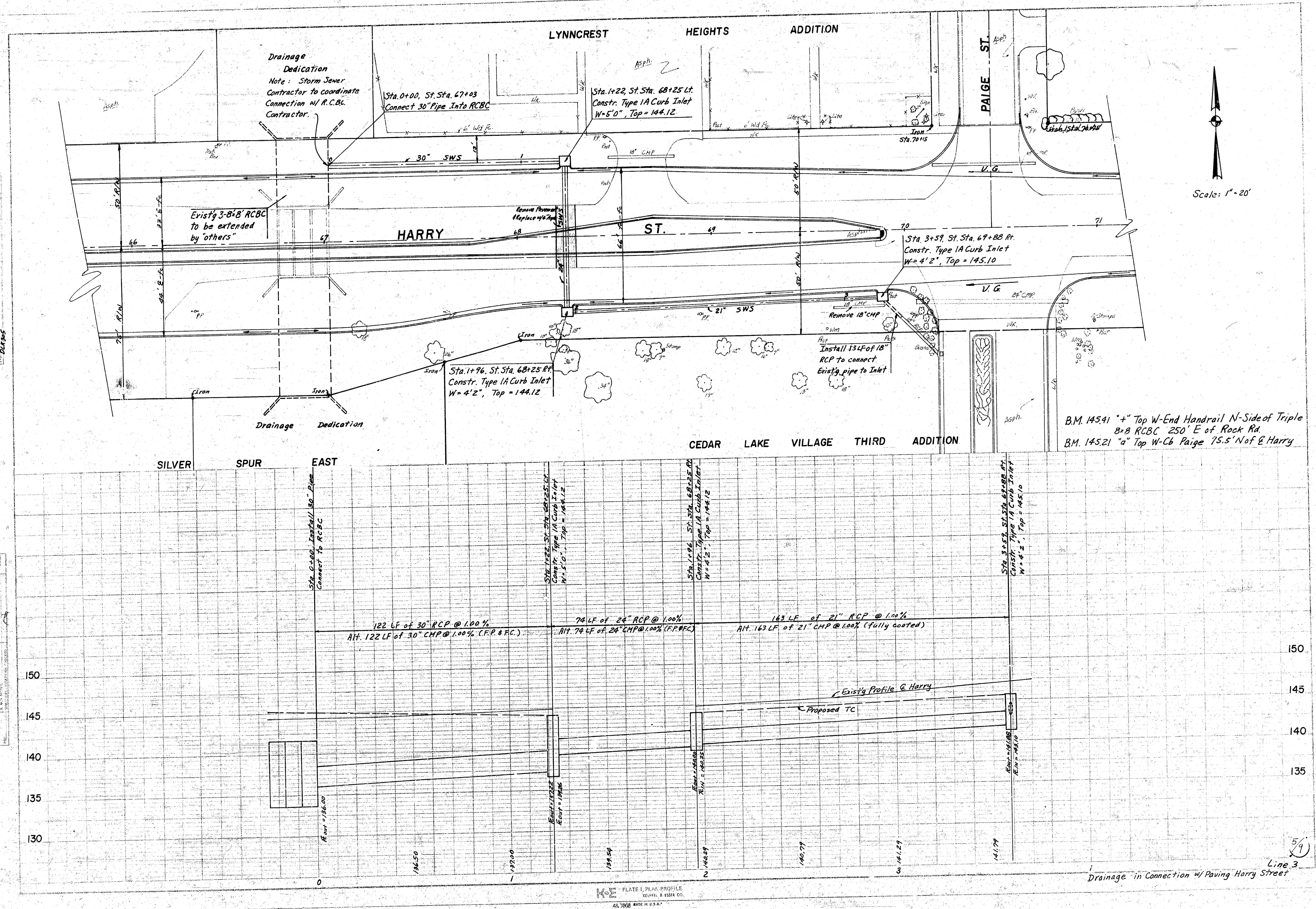
Drainage in Connection w/ Paving Harry Street

FILMED FROM THE BEST  
AVAILABLE COPY .....

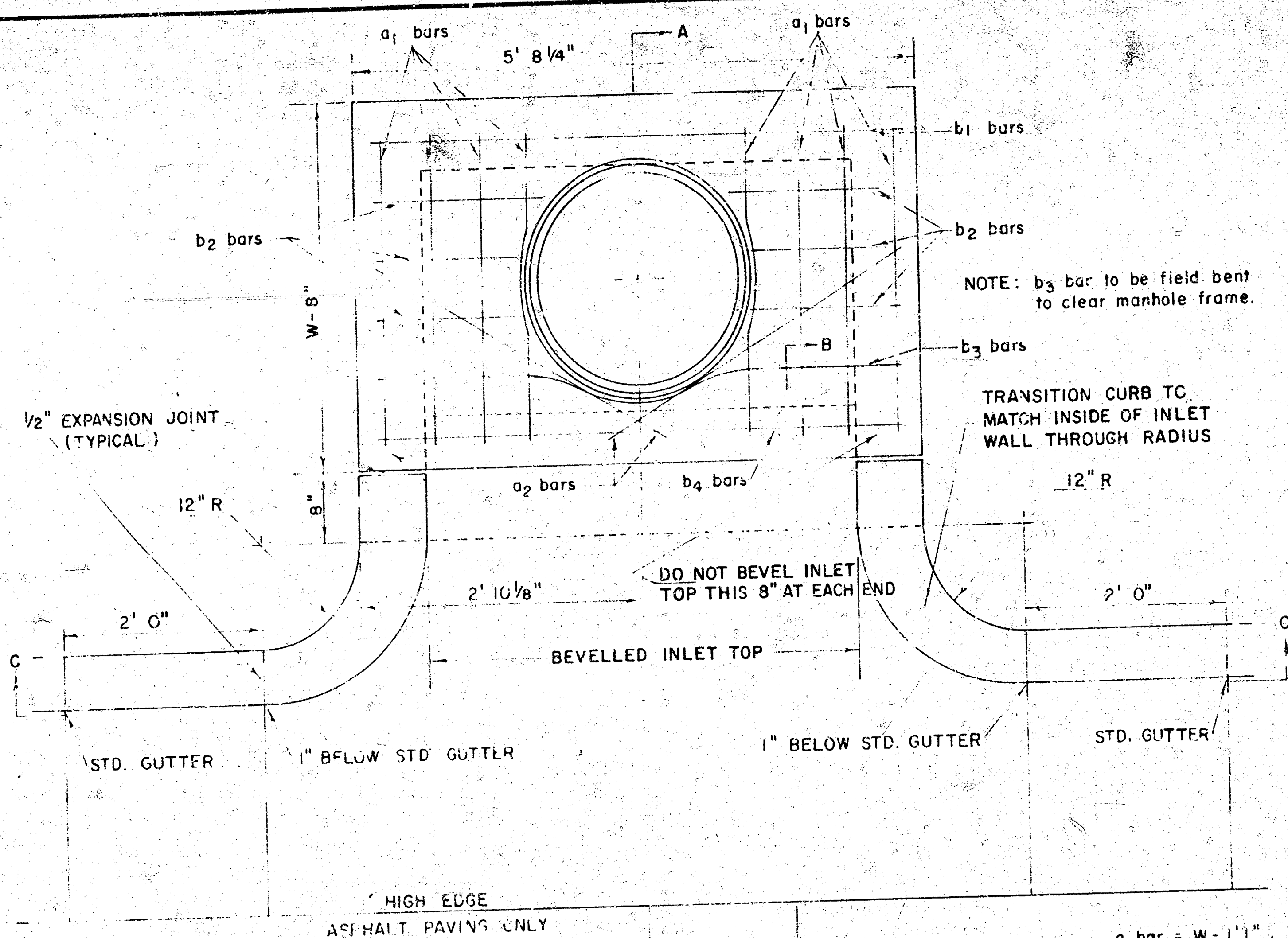


PLAN  
 DATE: 10/1/85  
 DRAWN BY: J. L. B. / J. L. B.  
 CHECKED BY: J. L. B. / J. L. B.

PROFILE  
 DATE: 10/1/85  
 DRAWN BY: J. L. B. / J. L. B.  
 CHECKED BY: J. L. B. / J. L. B.



FILMED FROM THE BEST AVAILABLE COPY .....



#### STEEL SCHEDULE

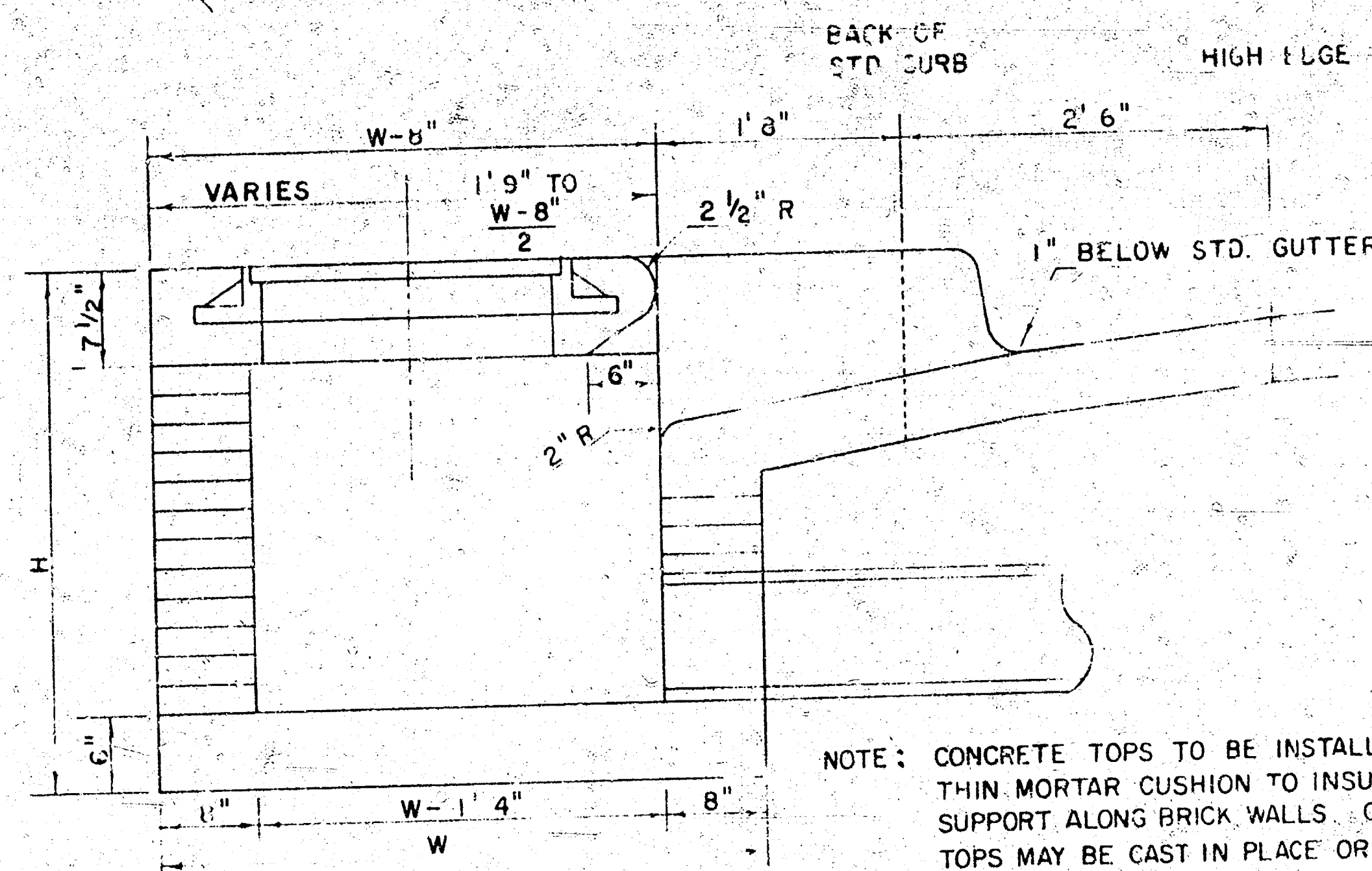
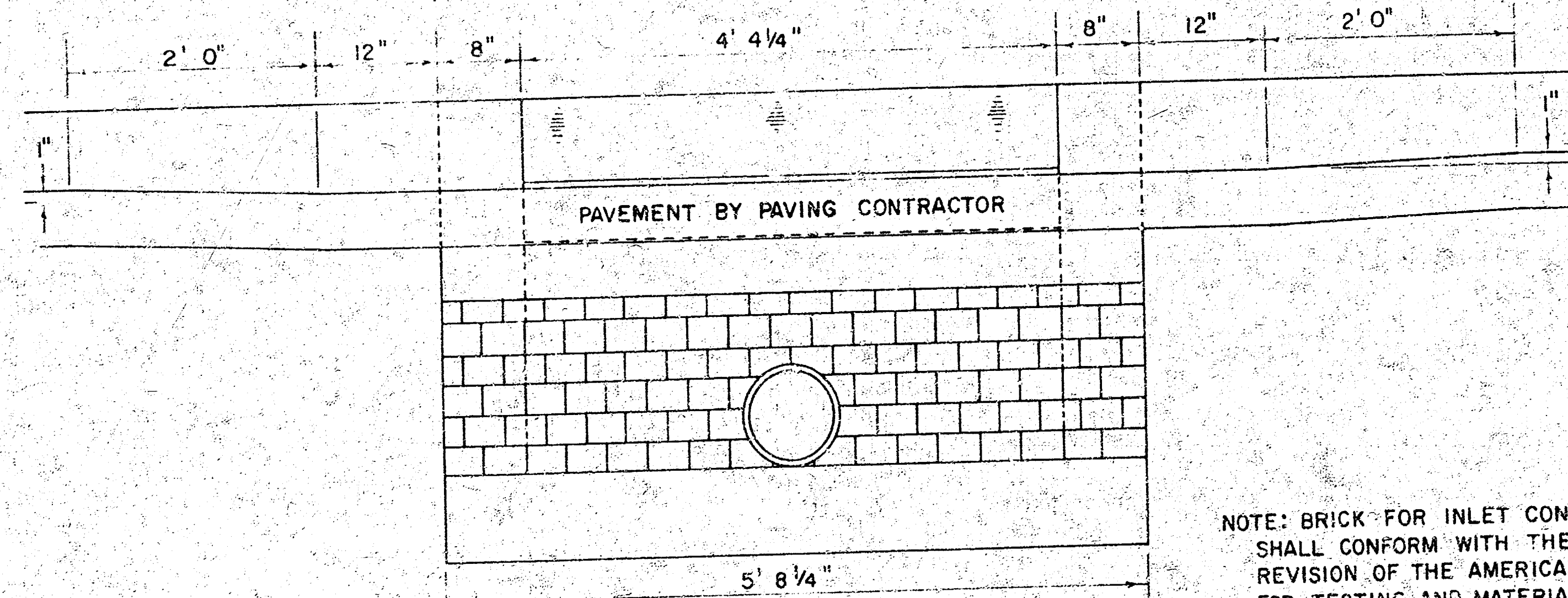
| BAR     | $a_1$  | $a_2$ | $b_1$ | $b_2$ | $b_3$ | $b_4$ | WT. LBS. |
|---------|--------|-------|-------|-------|-------|-------|----------|
| NUMBER  | 8      | 2     | 1     | 3     | 5     | 7     |          |
| SIZE    | " 4    | " 4   | " 4   | " 4   | " 4   | " 4   | " 6      |
| W=4' 2" | 6' 5"  | 3' 4" | 5' 5" | -     | -     | -     | 60 *     |
| W=5' 0" | 8' 1"  | 4' 4" | 5' 5" | -     | -     | -     | 77 *     |
| W=6' 0" | 10' 1" | 5' 4" | 5' 5" | -     | -     | -     | 97 *     |
| W=7' 0" | 11' 1" | 6' 4" | 5' 5" | -     | -     | -     | 111 *    |
| W=8' 0" | 12' 1" | 7' 4" | 5' 5" | -     | -     | -     | 124 *    |

\* NOTE:  $a_2$  BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

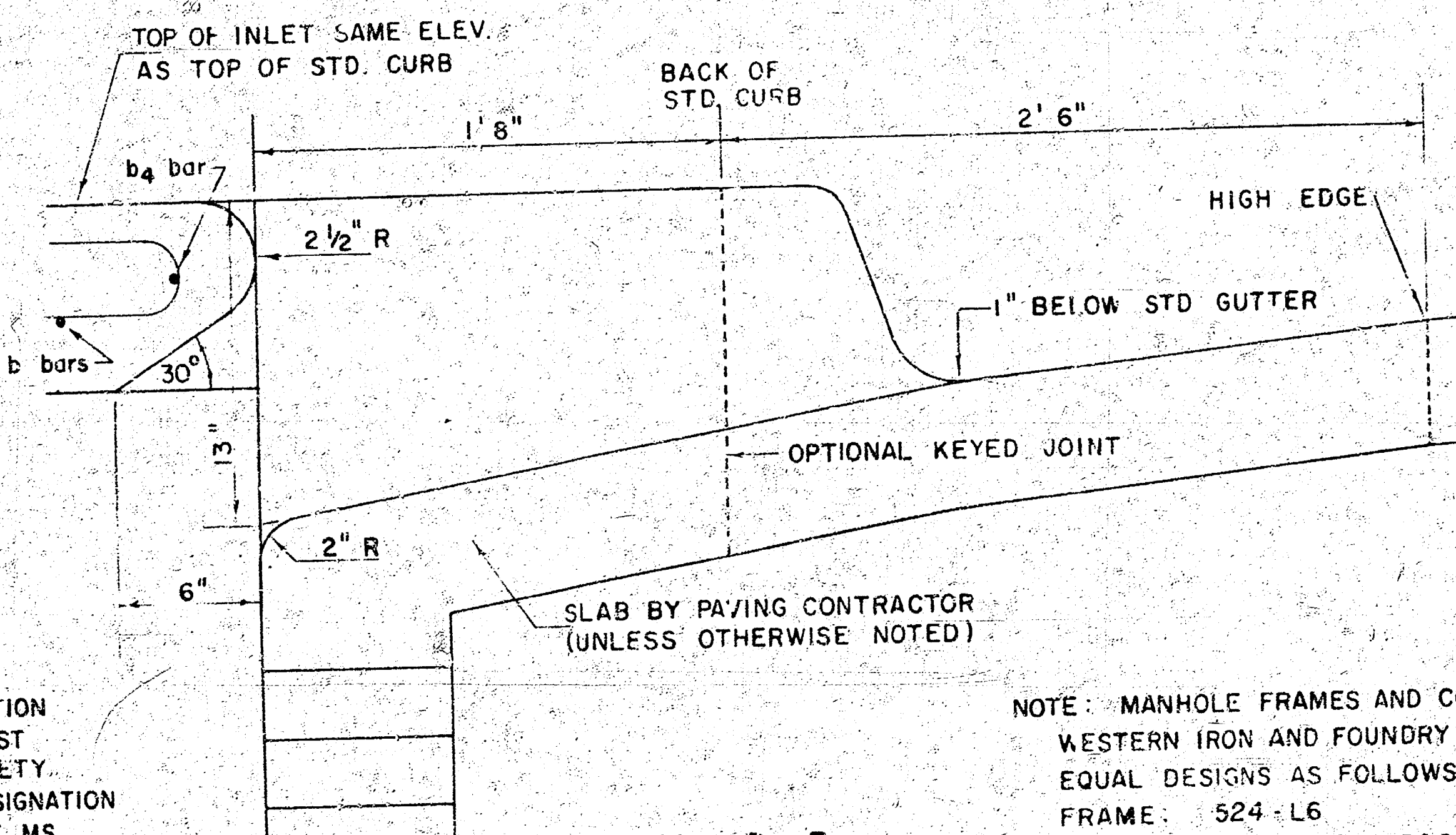
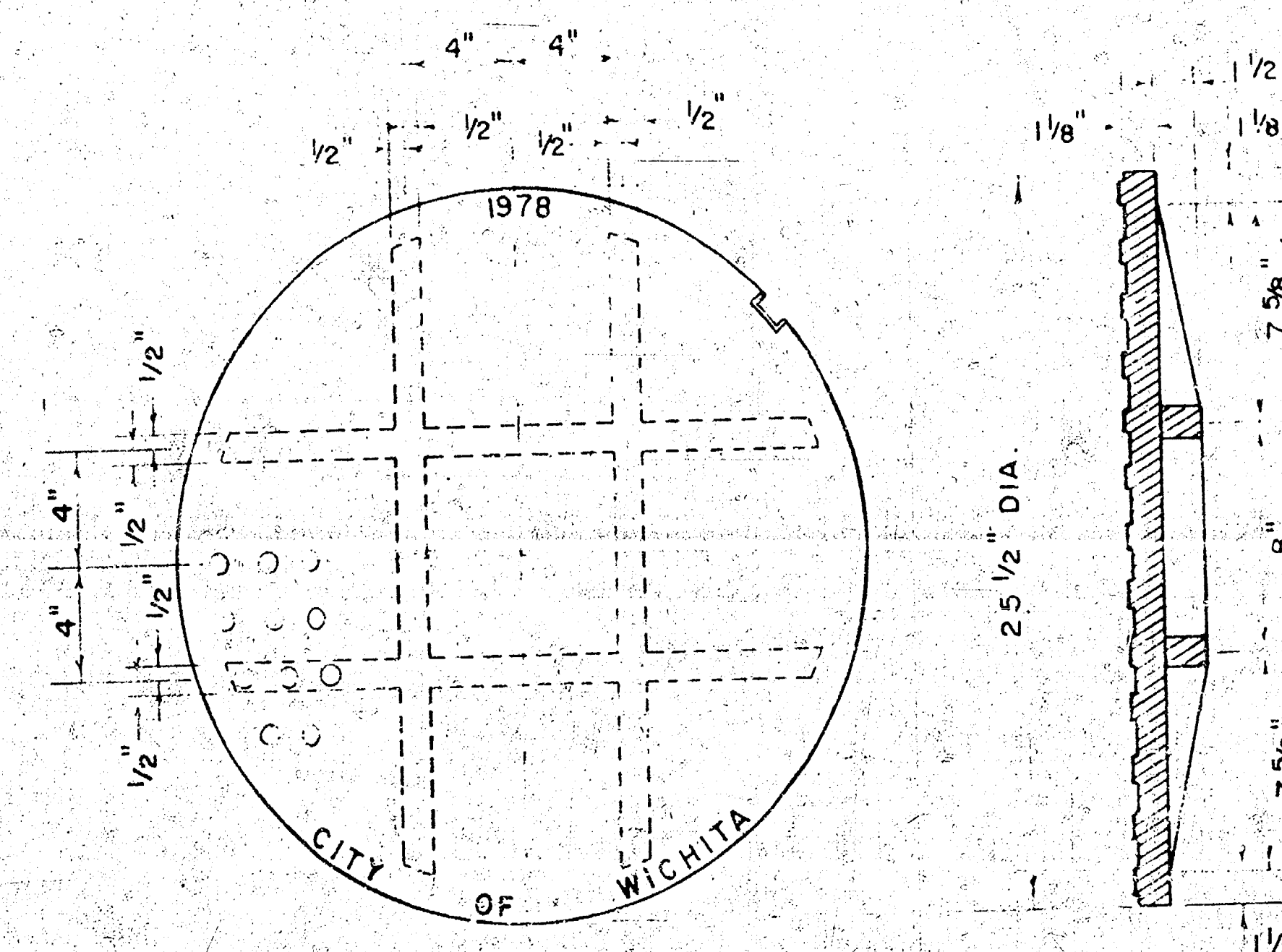
#### BENDING DIAGRAM

| W     | PRE-CAST TOP SIZE          | PIPE SIZE     | CU. YD. CONC. |
|-------|----------------------------|---------------|---------------|
| 4' 2" | 3' 6" x 5' 8 1/4" x 7 1/2" | 21" & SMALLER | 0.46 *        |
| 5' 0" | 4' 4" x 5' 8 1/4" x 7 1/2" | 24" & 30"     | 0.57 *        |
| 6' 0" | 5' 4" x 5' 8 1/4" x 7 1/2" | 36" & 42"     | 0.71 *        |
| 7' 0" | 6' 4" x 5' 8 1/4" x 7 1/2" | 48" & 54"     | 0.84 *        |
| 8' 0" | 7' 4" x 5' 8 1/4" x 7 1/2" | 60" & 66"     | 0.97 *        |

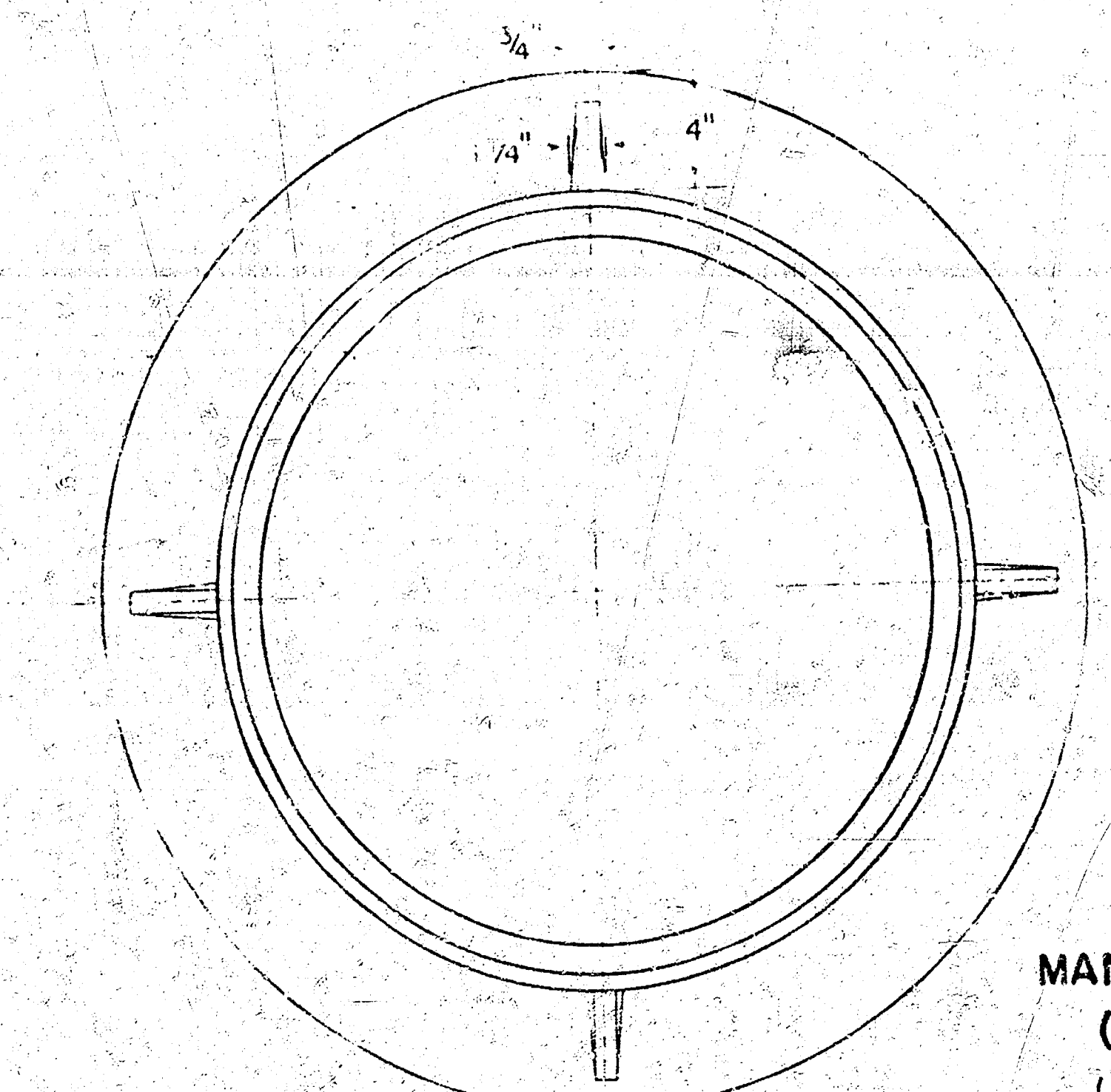
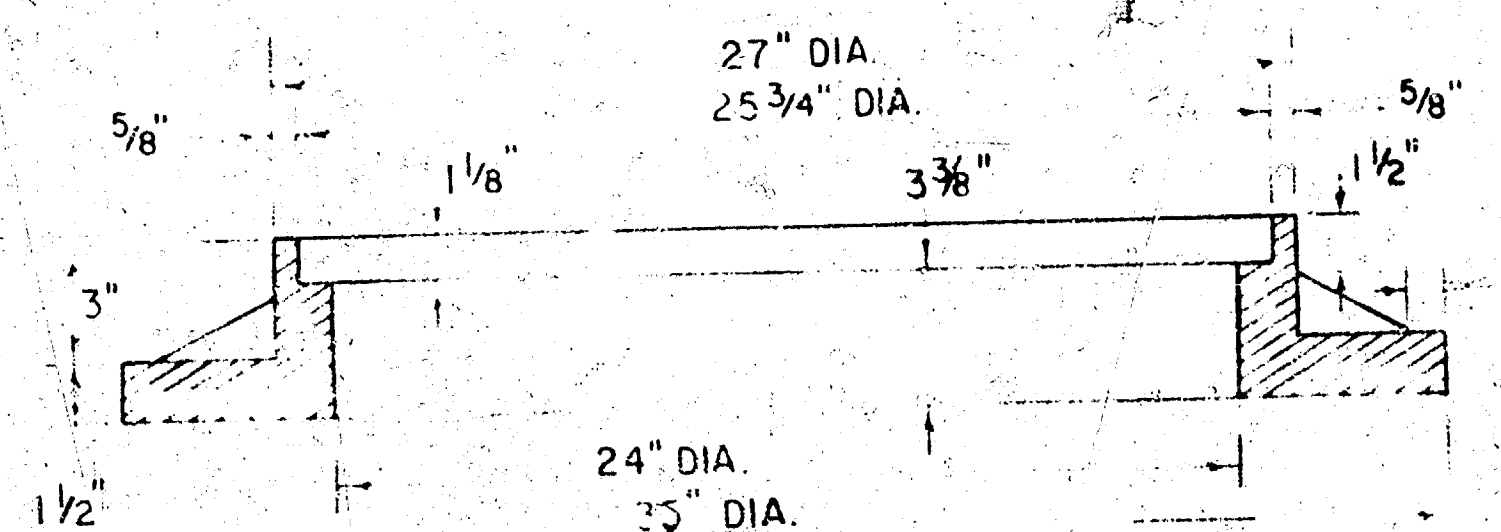
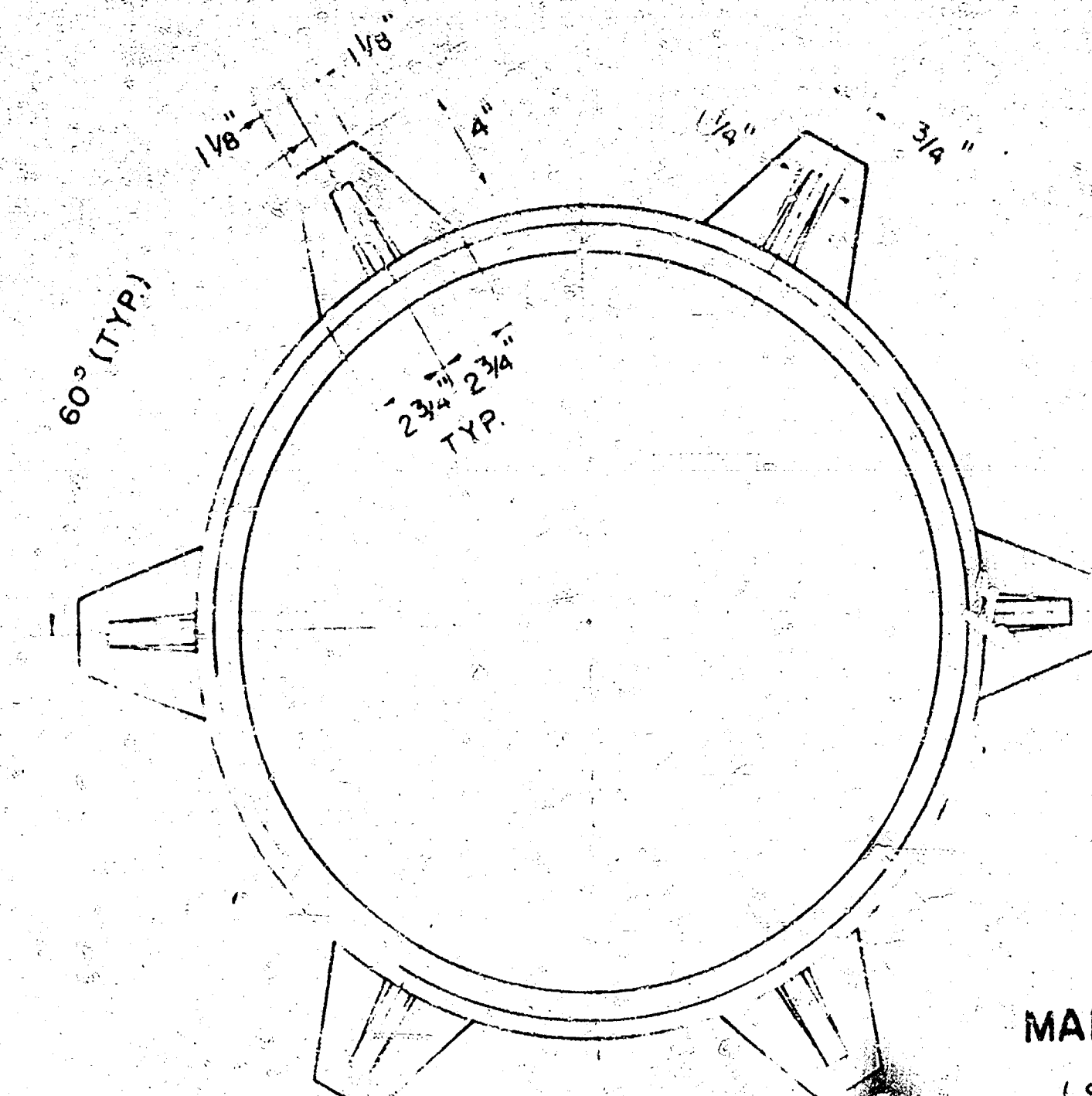
\* GROSS VOLUME



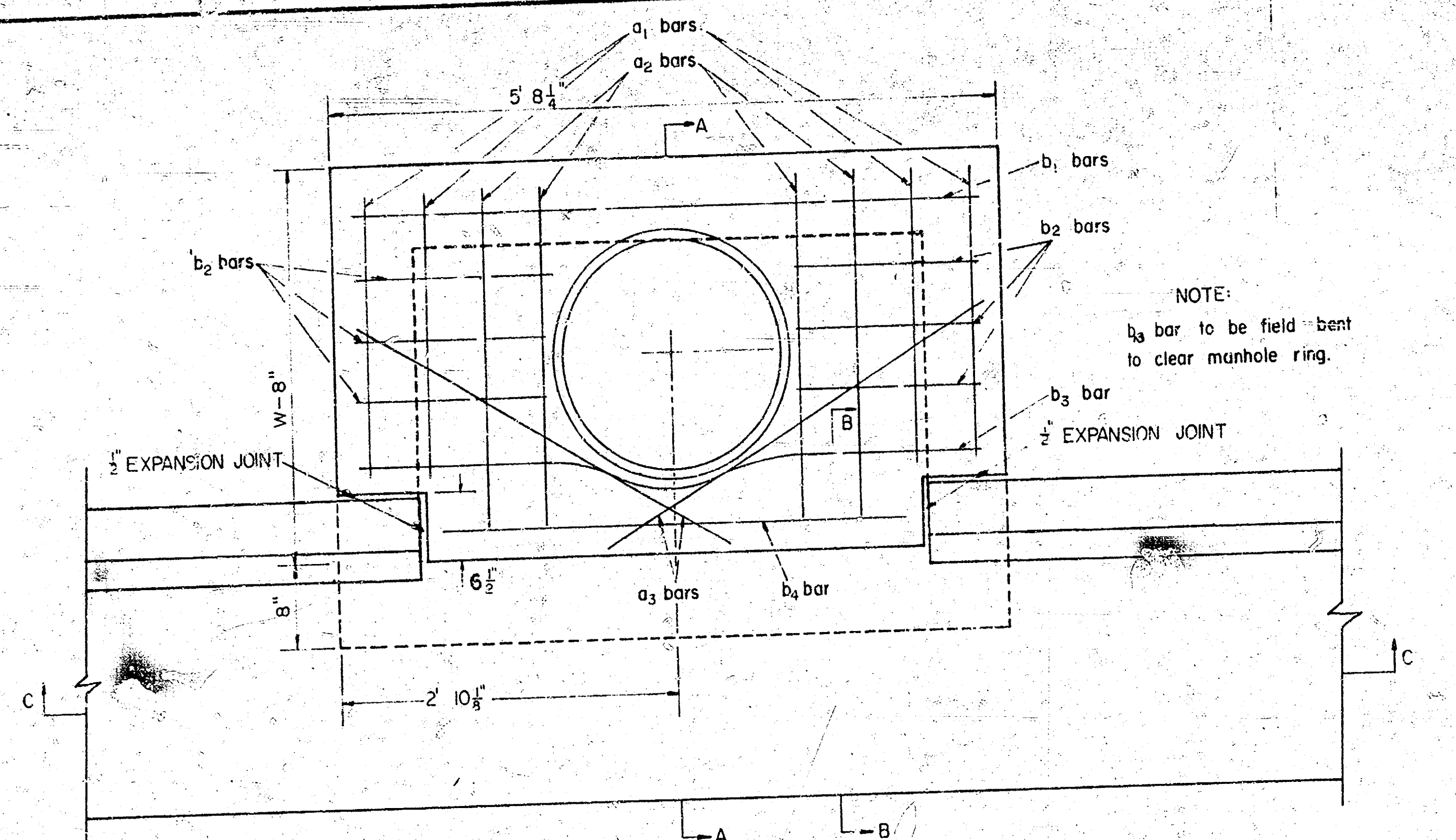
SECTION A-A  
(SCALE 1" = 1' 0")



SECTION B-B  
(SCALE 1" = 6")



DETAIL STANDARD TYPE 1A CURB INLET  
CITY OF WICHITA, KANSAS  
R. W. LINN - CITY ENGINEER  
OCTOBER 1978



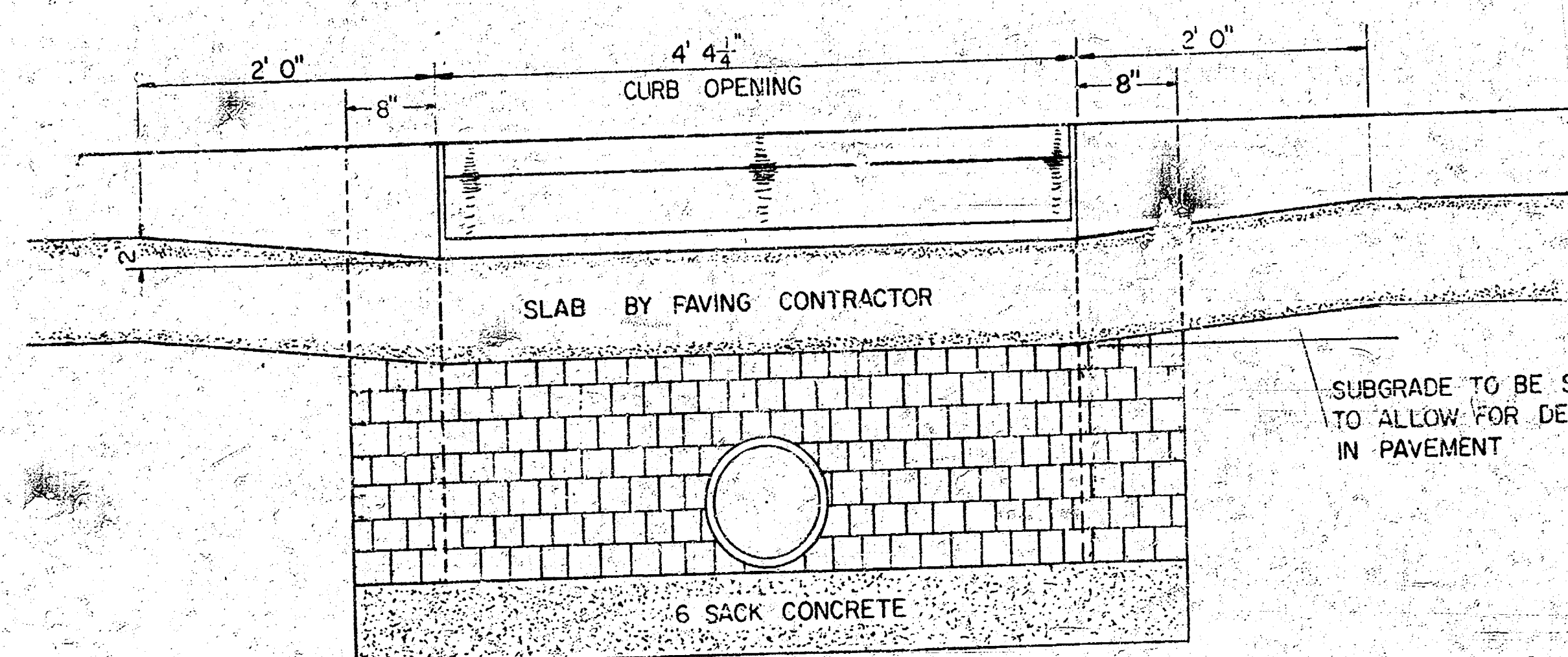
PLAN  
SCALE: 1"=1'0"

REINF. STEEL TO BE PLACED ON 6" CTR'S

SHAPE CURB AND/OR GUTTER AT INLET  
OPENING WITH SMOOTH CURVES

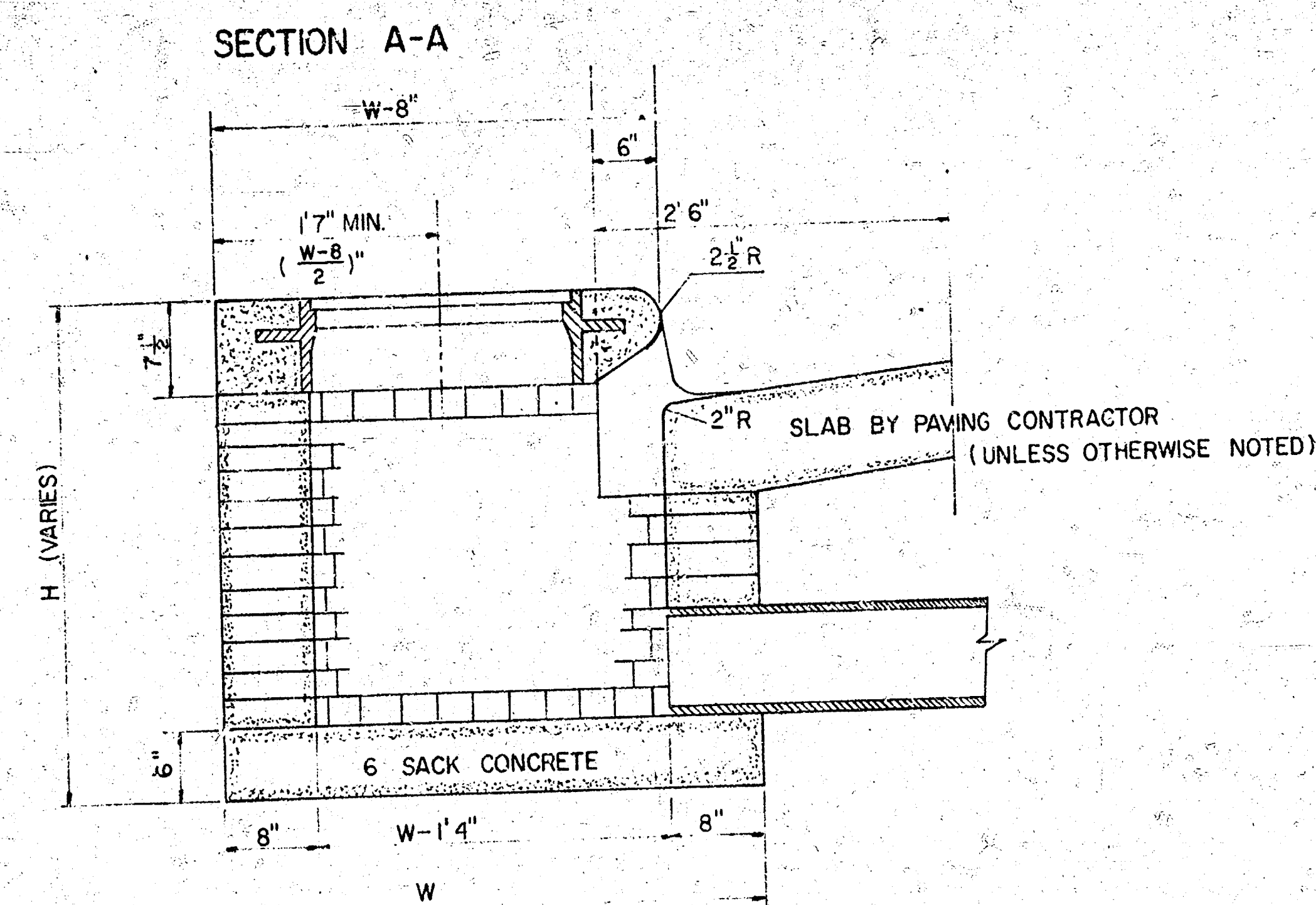
|        |                |                |                  |                |         |         |                |                | WT<br>LBS.     |       |    |
|--------|----------------|----------------|------------------|----------------|---------|---------|----------------|----------------|----------------|-------|----|
| BAR    | a <sub>1</sub> | a <sub>2</sub> | a <sub>3</sub> * | b <sub>i</sub> |         |         | b <sub>2</sub> | b <sub>3</sub> | b <sub>4</sub> |       |    |
|        |                |                |                  | W=3'0"         | W=4'10" | W=5'10" |                |                |                |       |    |
| SIZE   | "4             | "4             | "4               | "4             | "4      | "4      | "4             | "4             | "6             |       |    |
| NUMBER | 4              | 4              | 2                | 3              | 4       | 5       | 6              | 1              | 1              |       |    |
| LENGTH | W=3' 10"       | 4' 9"          | 5' 9"            | 3' 7"          | 5' 5"   | —       | —              | 1' 7"          | 5' 6"          | 4' 0" | 53 |
|        | W=4' 10"       | 6' 9"          | 7' 9"            | 4' 7"          | —       | 5' 5"   | —              | 1' 7"          | 5' 6"          | 4' 0" | 72 |
|        | W=5' 10"       | 8' 9"          | 9' 9"            | 5' 7"          | —       | —       | 5' 5"          | 1' 7"          | 5' 6"          | 4' 0" | 91 |

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



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

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.

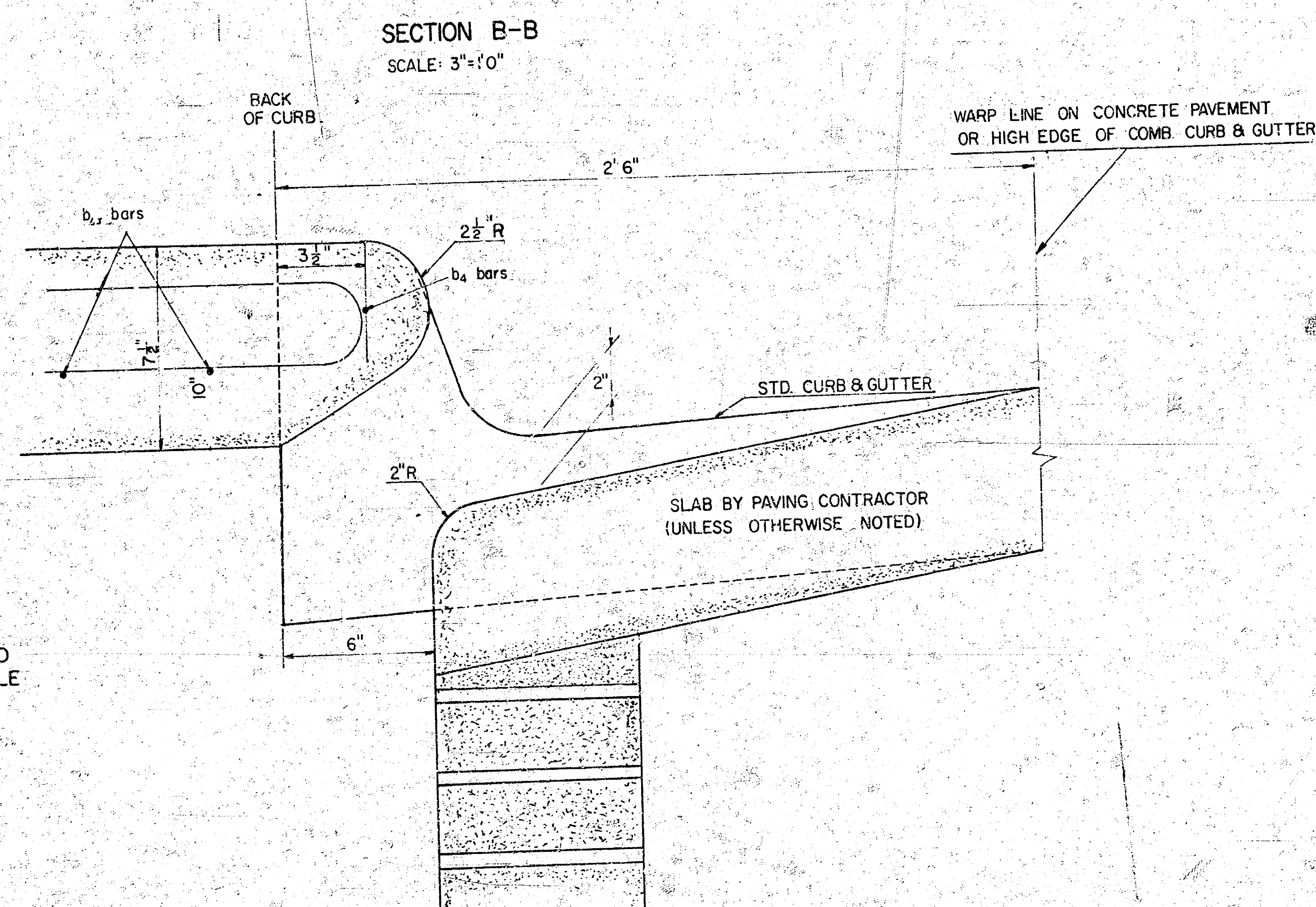


SECTION A-A  
SCALE: 1"=1'0"

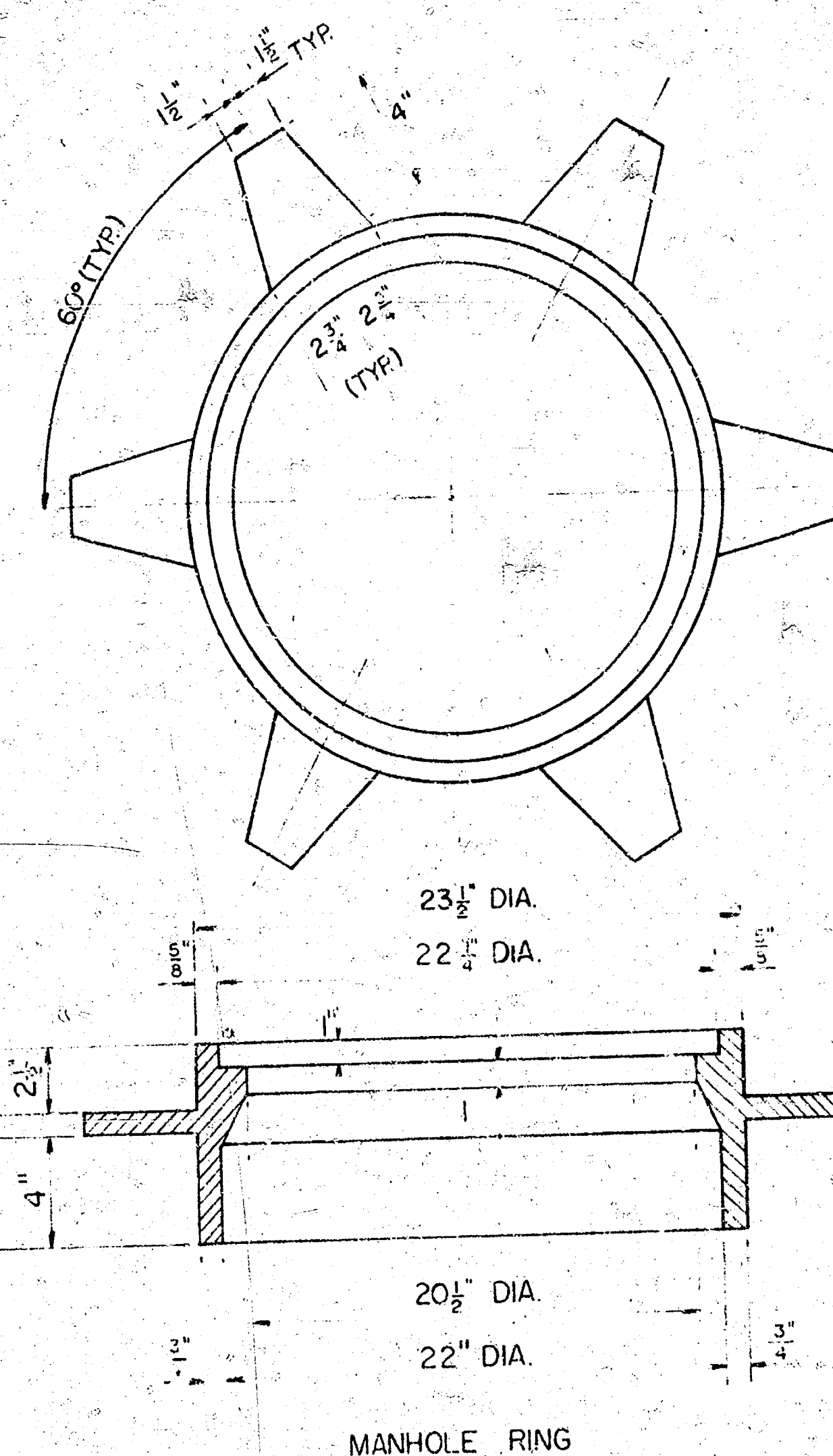
| W      | SIZE                       | PIPE SIZE    | CU. YD. CONC. |
|--------|----------------------------|--------------|---------------|
| 3' 10" | 3' 2" x 5' 8 1/2" x 7 1/2" | 24" BSMALLER | 0.42"         |
| 4' 10" | 4' 2" x 5' 8 1/2" x 7 1/2" | 30" B 36"    | 0.55"         |
| 5' 10" | 5' 2" x 5' 8 1/2" x 7 1/2" | 42" B 48"    | 0.68"         |

\* 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 6 SACK PAVING MIX.



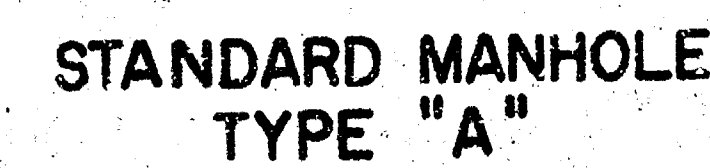
SECTION B-B  
SCALE: 3"=1'0"



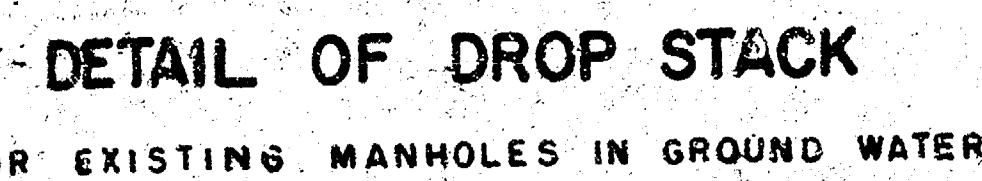
SEE SEWER APPURTENANCES DETAIL  
SHEET FOR MANHOLE COVER

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  
R.W. LINN-CITY ENGINEER  
FEBRUARY, 1975



NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES TYPE 'A' OR TYPE 'B' AND STANDARD DROP MANHOLES TYPE 'A' OR TYPE 'B' SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.

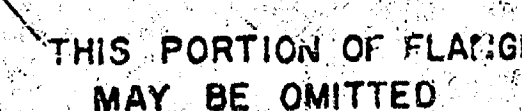
THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INSURE HYDRAULIC EFFICIENCY USING 8 BAGG SACK MIX CONCRETE.

PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE GRADED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE. CRADLE SHALL EXTEND TO FIRST JOINT OUTSIDE OF MANHOLE WHEN CLAY PIPE IS USED.



**SIDE VIEW**

DROP MANHOLE  
TYPE "A"



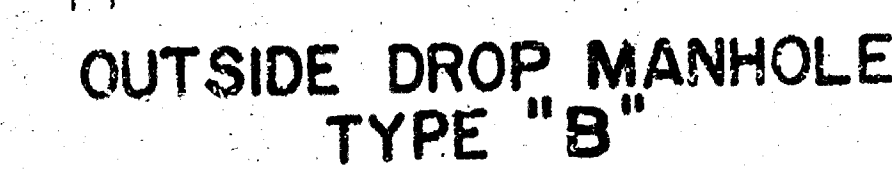
WEIGHT 325 LBS. RING NO. 500A  
WEIGHT 300 LBS. RING NO. 500AS



OUTSIDE DROP MANHOLE  
TYPE "A"

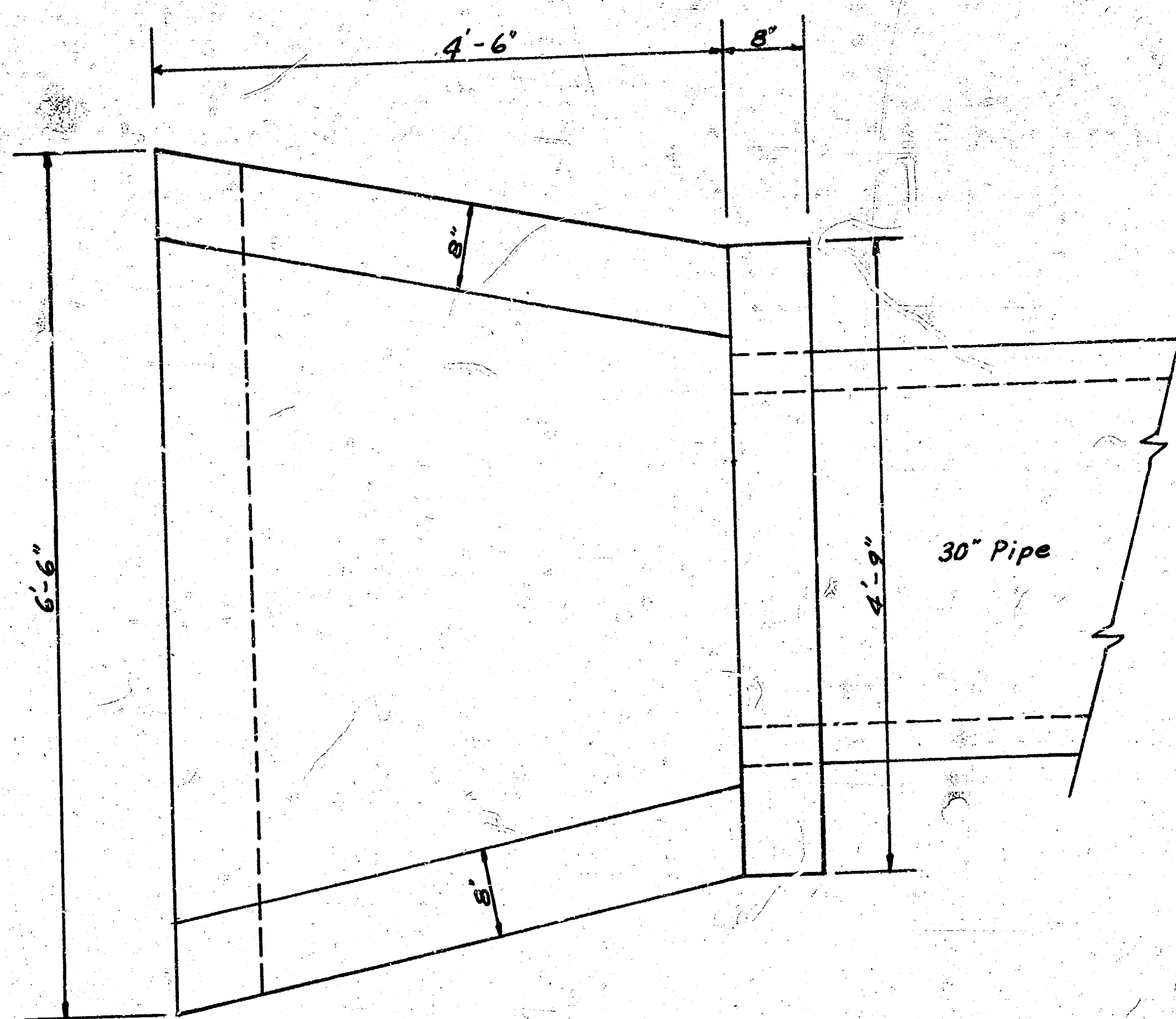


NOTE: CONCRETE ENCASEMENT AND CONCETE CRADLE SHALL BEGIN AND END AT A JOINT WHEN CLAY PIPE IS USED.

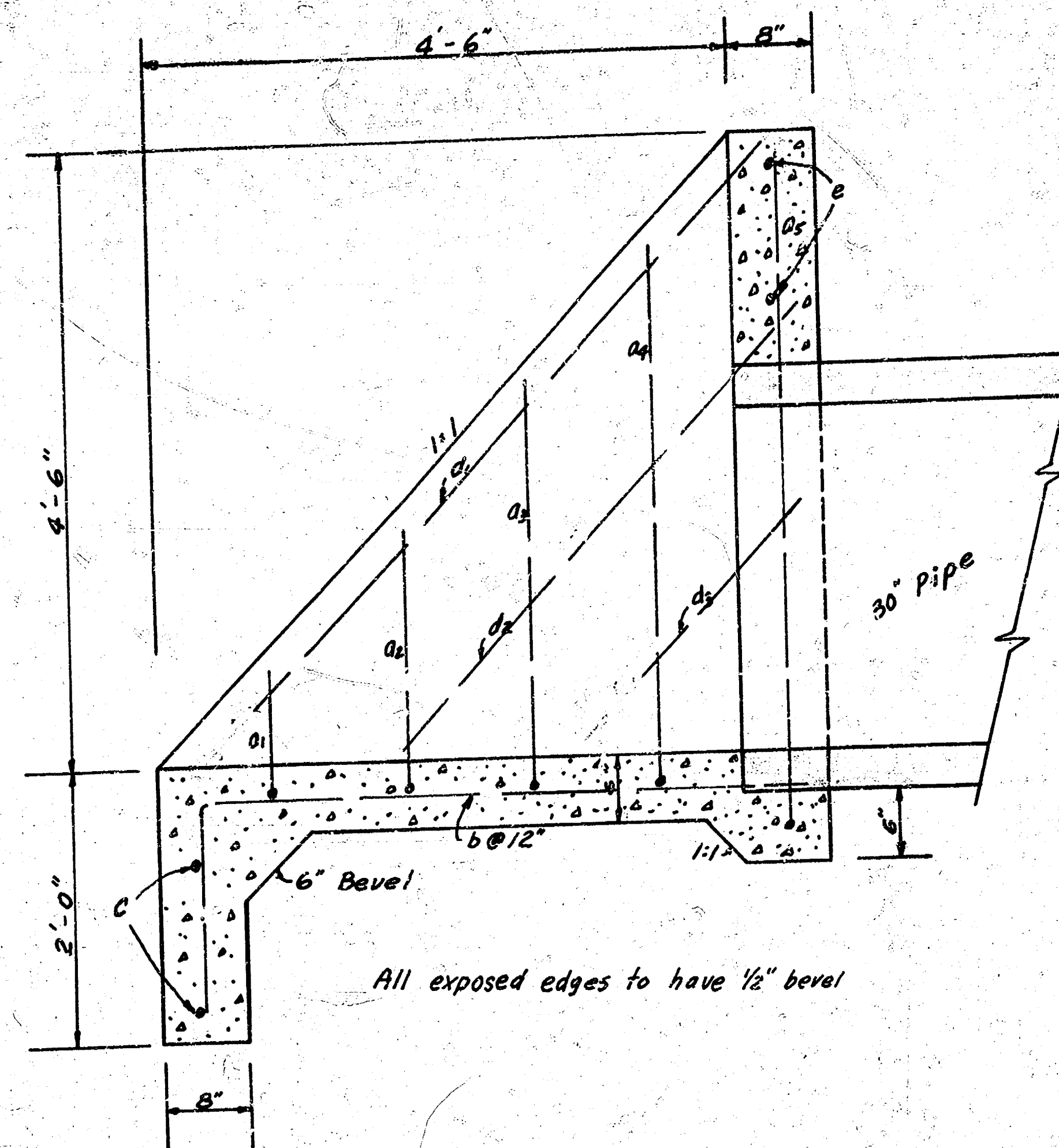


REVISED 4-13-77  
DETAILS OF  
SEWER APPURTENANCES  
ADOPTED AS STANDARD DESIGN  
BY  
ENGINEERING DIVISION  
CITY OF WICHITA, KANSAS  
R. W. LINN CITY ENGINEER  
1974

FILMED FROM THE BEST  
AVAILABLE COPY .....



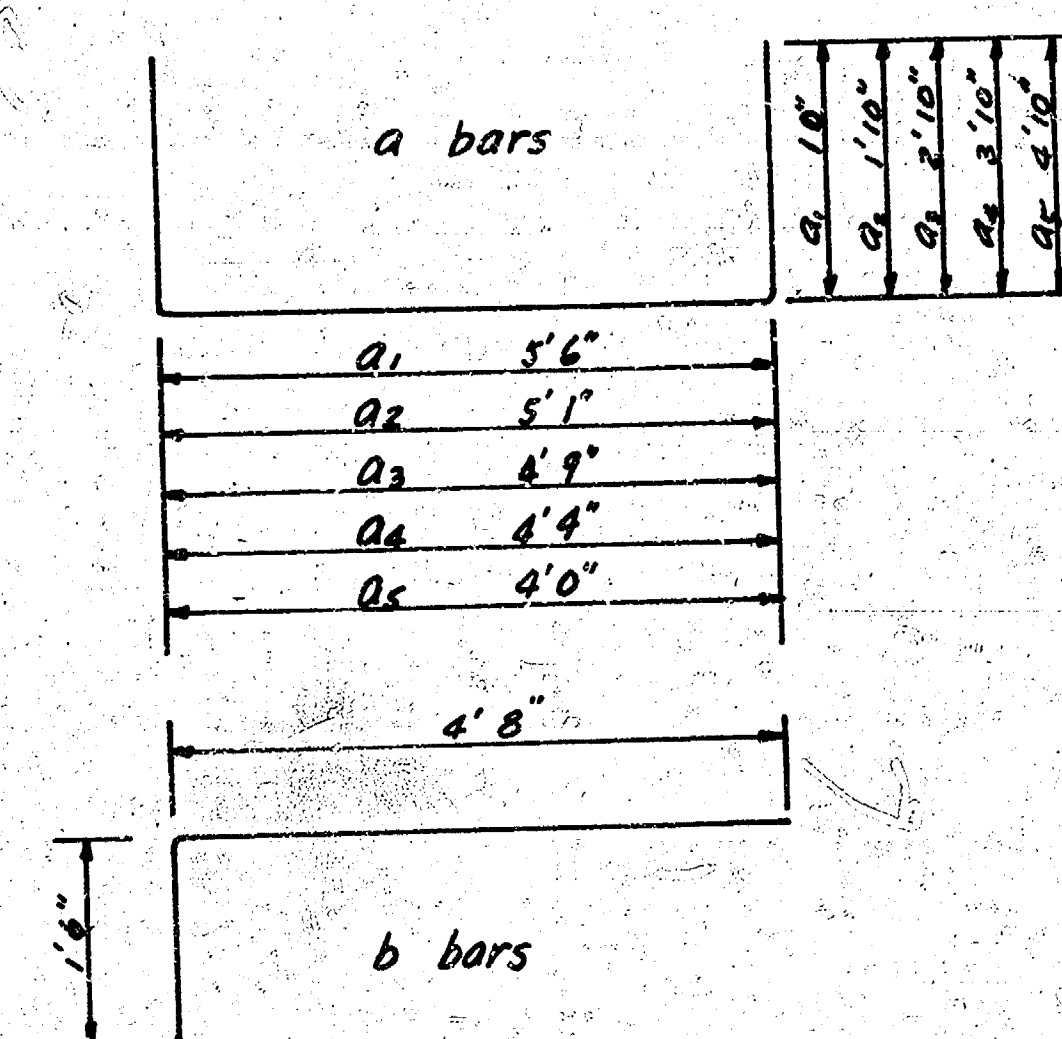
PLAN  
Scale: 1" = 1'



SECTION  
Scale: 1" = 1'

| TABLE OF QUANTITIES |        |        |       |        |
|---------------------|--------|--------|-------|--------|
| BAR                 | NUMBER | LENGTH | SHAPE | WEIGHT |
| a <sub>1</sub>      | 1      | 7'2"   |       | 4.79   |
| a <sub>2</sub>      | 1      | 8'9"   |       | 5.85   |
| a <sub>3</sub>      | 1      | 10'5"  |       | 6.96   |
| a <sub>4</sub>      | 1      | 12'0"  |       | 8.02   |
| a <sub>5</sub>      | 1      | 13'8"  |       | 9.13   |
| b                   | 6      | 6'2"   |       | 24.72  |
| c                   | 2      | 6'0"   |       | 8.02   |
| d <sub>1</sub>      | 2      | 5'8"   |       | 7.57   |
| d <sub>2</sub>      | 2      | 4'6"   |       | 6.01   |
| d <sub>3</sub>      | 2      | 1'9"   |       | 2.39   |
| e                   | 2      | 4'5"   |       | 5.90   |
| Total Rebar, lbs    |        |        |       | 8931   |
| Concrete, CY        |        |        |       | 1.64   |

All Rebars to be #4



DETAILS OF HEADWALL STRUCTURE  
CITY OF WICHITA, KANSAS  
DRAINAGE IN CONNECTION WITH PAVING HARRY STREET