

STORM SEWER PLANS FOR BEACON HILL S.W.S. NO. 309 PROJECT NO. 468-76-245-81568-000-000-001

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
JULY, 1986

GENERAL NOTES

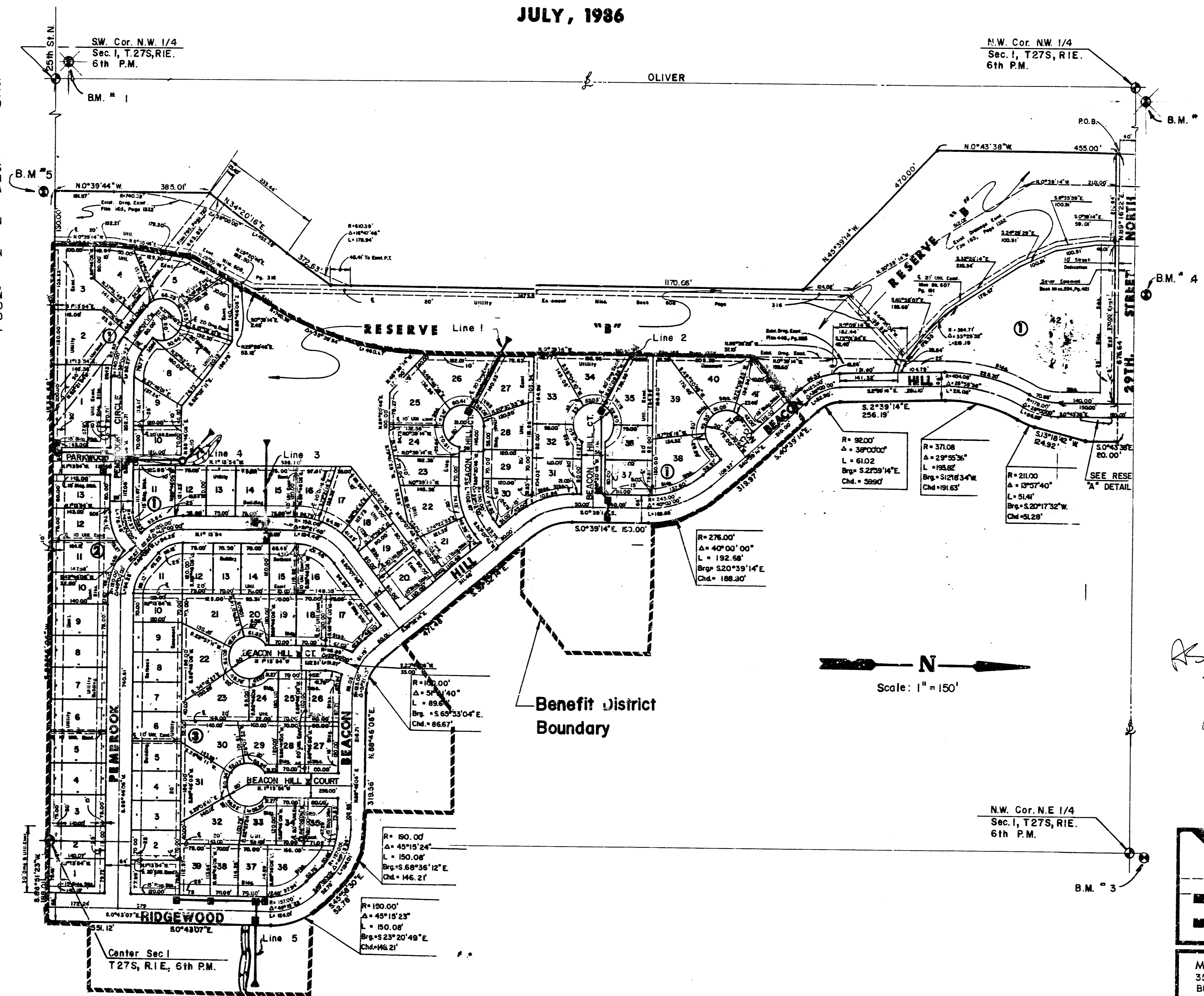
1. THE TOPS OF INLETS AND MANHOLE AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS 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. TREES TO BE REMOVED ARE MARKED ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
5. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
6. 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.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

| | |
|------------------------------|----------------|
| ARKLA GAS COMPANY | 942-8350 |
| BELL TELEPHONE | 1-316-571-2115 |
| CABLEVISION | 262-0661 |
| KPL GAS SERVICE COMPANY | 263-7511 |
| KANSAS GAS & ELECTRIC | 264-1141 |
| KANSAS ONE-CALL | 1-800-344-7233 |
| CITIES SERVICE | 524-0491 |
| KANSAS GAS SUPPLY | 316-254-7243 |
| CONTINENTAL PIPELINE COMPANY | 316-681-2081 |
| CO-OP REFINERY PIPELINE | 316-221-2107 |

BENCH MARKS

- B.M. #1 OLIVER & 25TH STREET NORTH CITY OF WICHITA BENCH MARK DISC, 44' WEST OF CENTERLINE OLIVER AND 32' NORTH OF CENTER A.C. PAVEMENT WEST ON 25TH STREET FG EST. 1972 ELEV. 174.486
- B.M. #2 OLIVER & 29TH STREET NORTH CITY OF WICHITA BENCH MARK DISC, 29' NORTH AND 33' EAST OF CENTERLINE BOTH JFG EST. 1972 ELEV. 159.684
- B.M. #3 EDGEWOOD & 29TH STREET NORTH CITY OF WICHITA BENCH MARK DISC, 5.5' EAST AND 37' NORTH OF QUARTER SECTION CORNER JFG EST. 1972 ELEV. 172.384
- B.M. #4 RAILROAD SPIKE IN S.W. FACE OF POWER POLE 26.5' N. OF 1/16 CORNER 1/4 MILE EAST OF 29TH & OLIVER. ELEV. 172.384
- B.M. #5 N.W. CORNER OF CURB INLET ON W. SIDE AT N. END OF BATTIN AT 25th STREET ELEV. 176.33



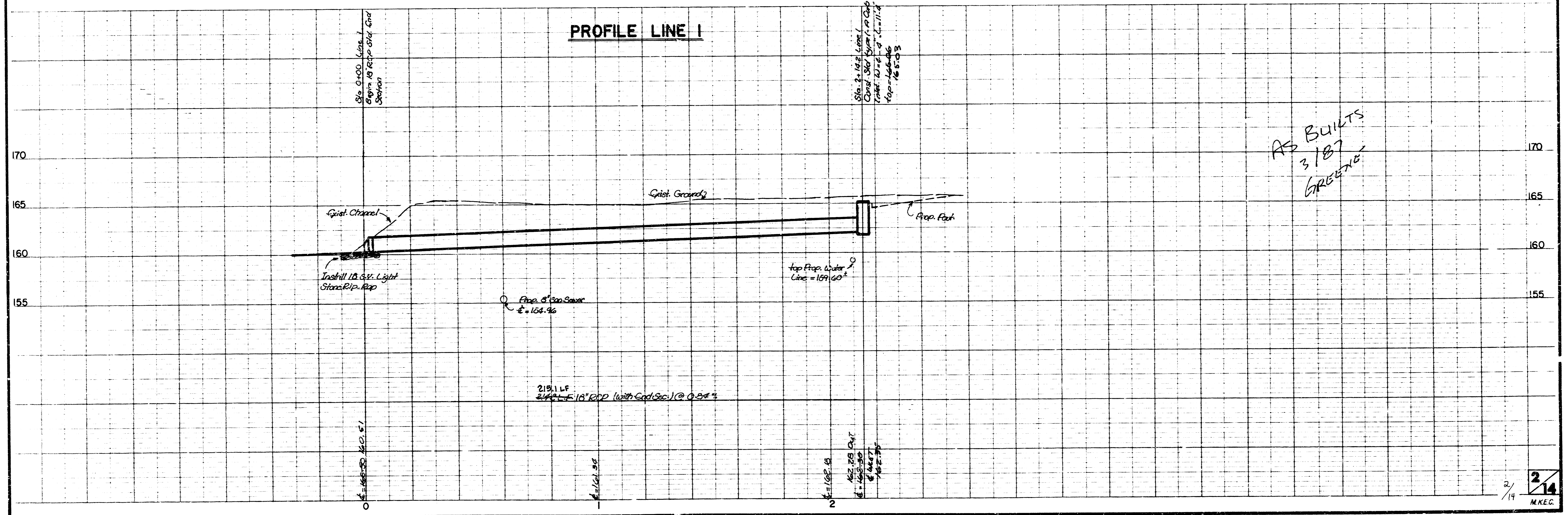
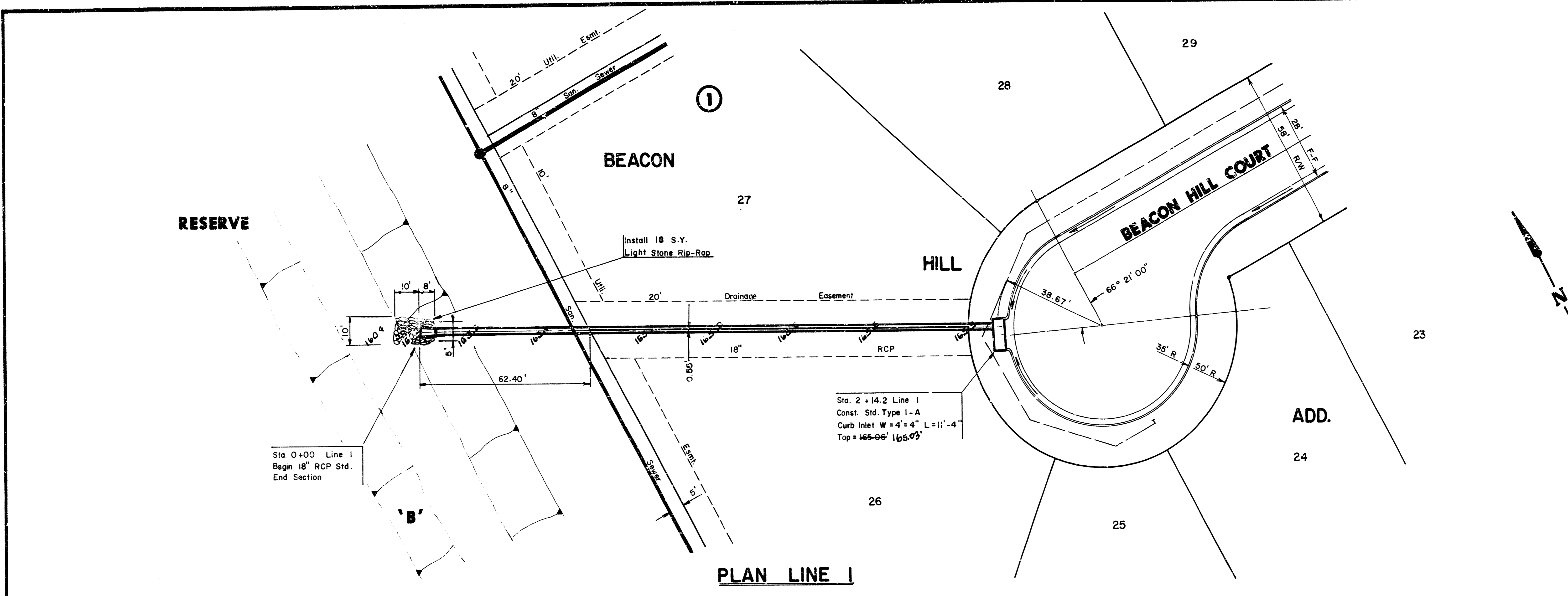
INDEX TO DRAWINGS

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| 3 | LINE 2 |
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| 5 | LINE 4 |
| 6-7 | LINE 5 |
| 8-12 | DETAIL SHEETS |
| 13-14 | FINAL PLAT |

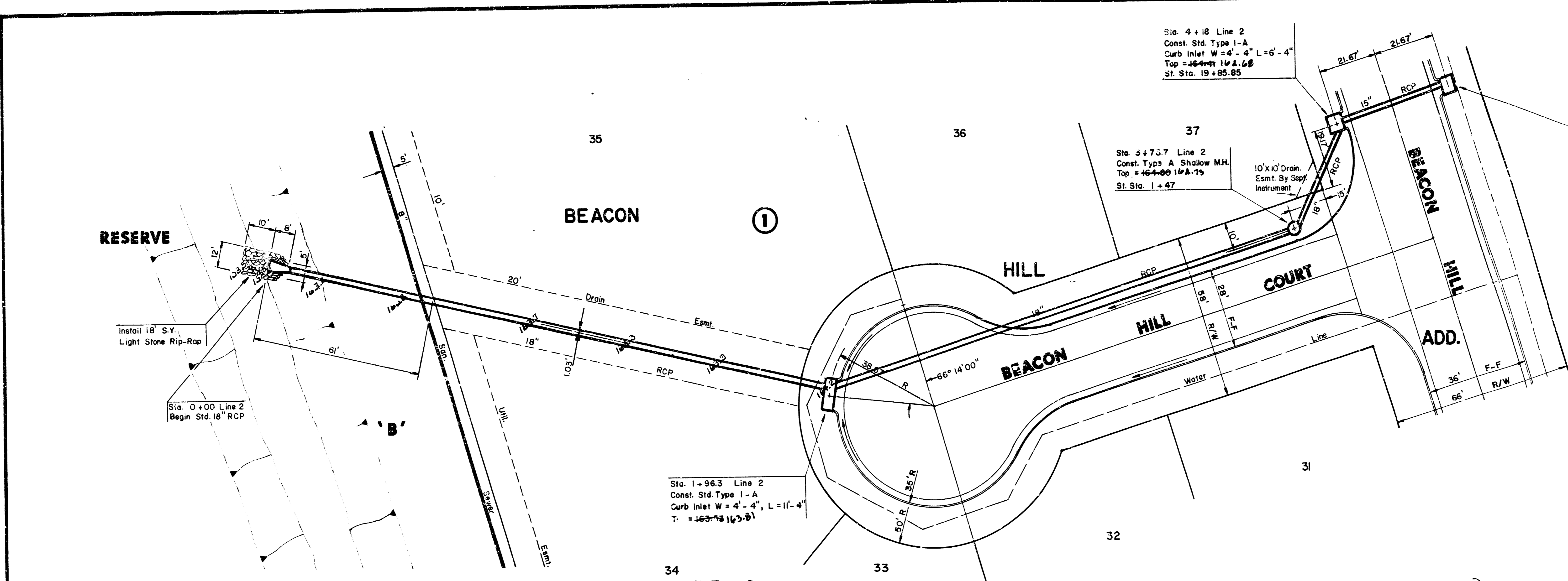
*AS BUILTS
3/87
GREENE
3/10 FCR*

| | | |
|--|---|---|
| | BEACON HILL STORM SEWER PLANS | Design: A.M.S. Drawn by: ECS / FF Checked by: D.S. Date: _____ Job No: _____ |
| | MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226 | |
| | | Sheet 1 of 14 |

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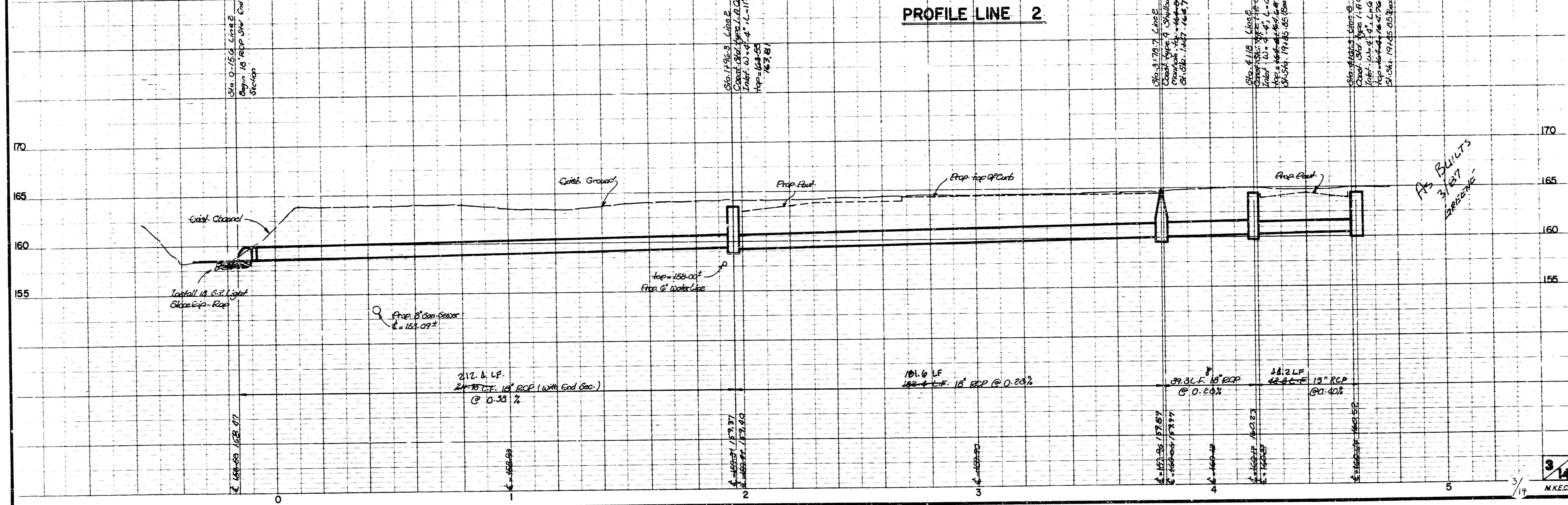


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PLAN LINE 2

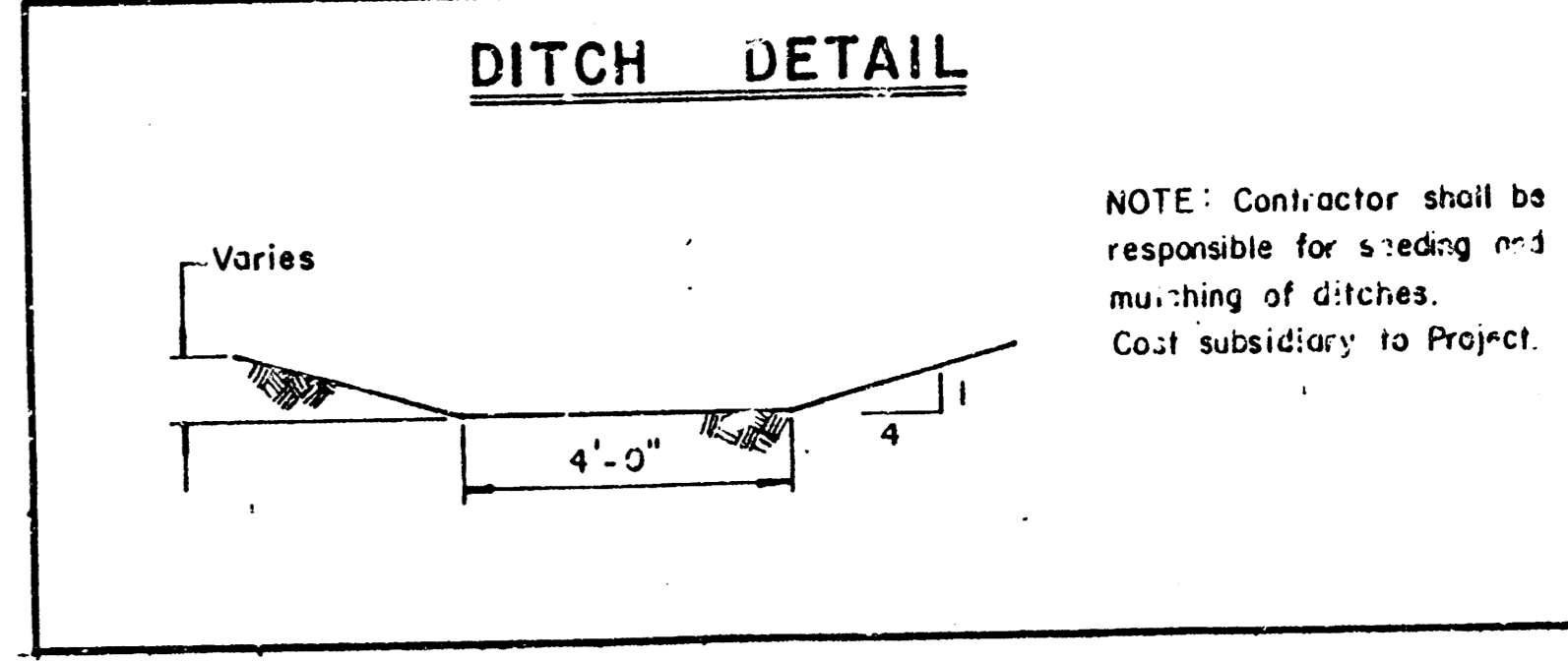
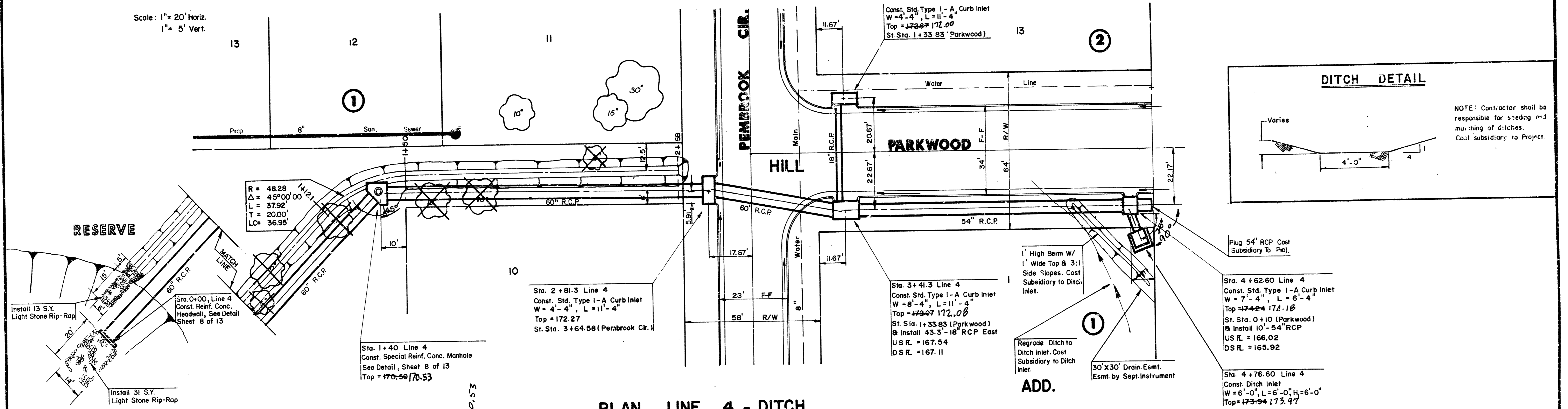
PROFILE LINE 2





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

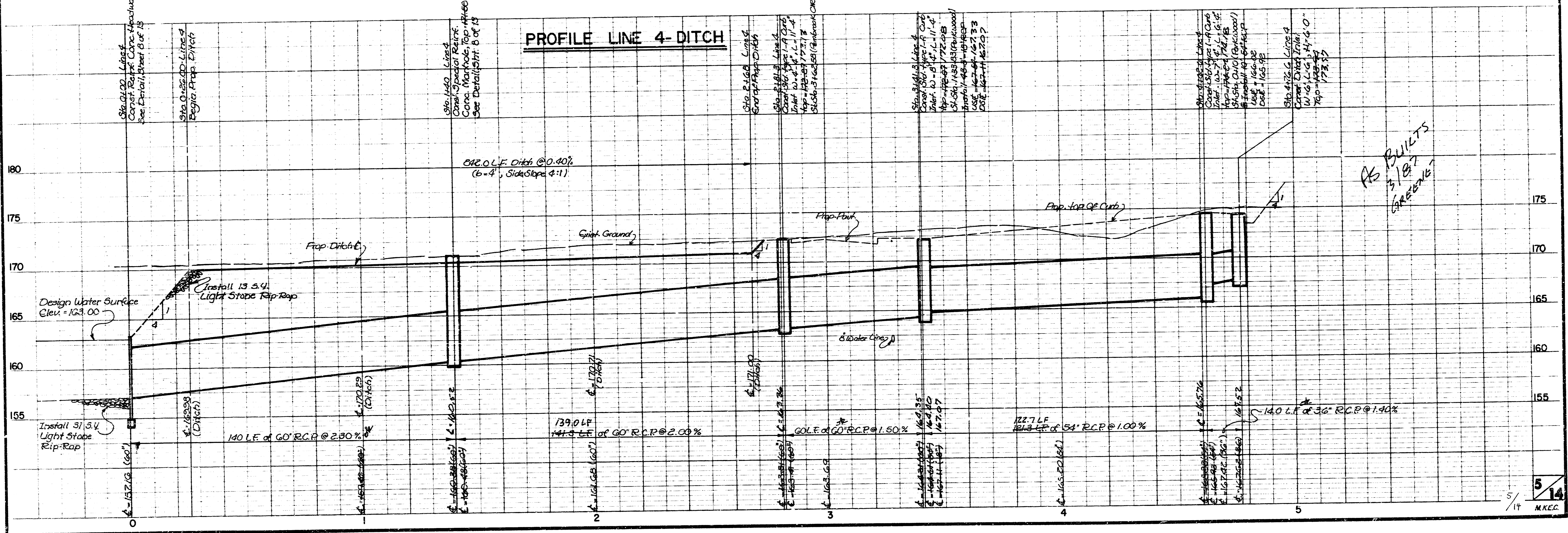
BEACON



NOTE: Contractor shall be responsible for staking and mounding of ditches. Cost subsidiary to Project.

PLAN LINE 4 - DITCH

PROFILE LINE 4-DITCH

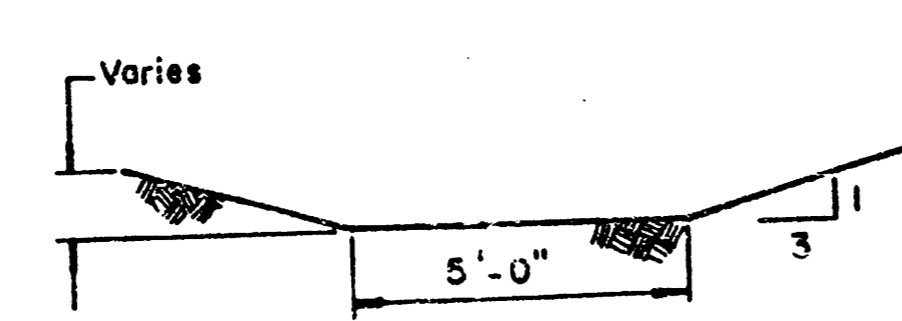


AS BUILTS
 3/18/87
 GREENE

DITCH DETAIL

STA. 0+00 through
 STA. 0+10

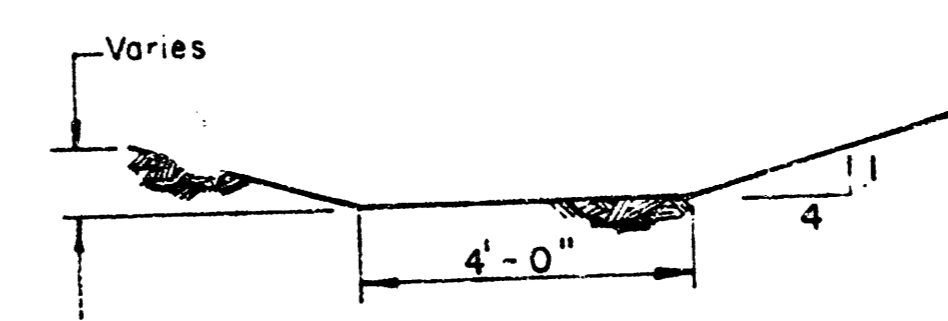
NOTE: Contractor shall be responsible for seeding and mulching of ditches. Cost subsidiary to Project.



DITCH DETAIL

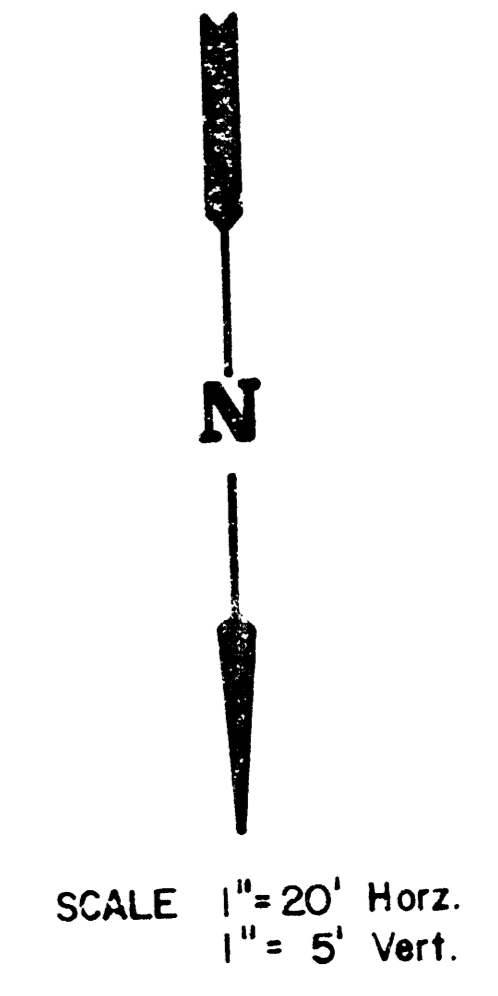
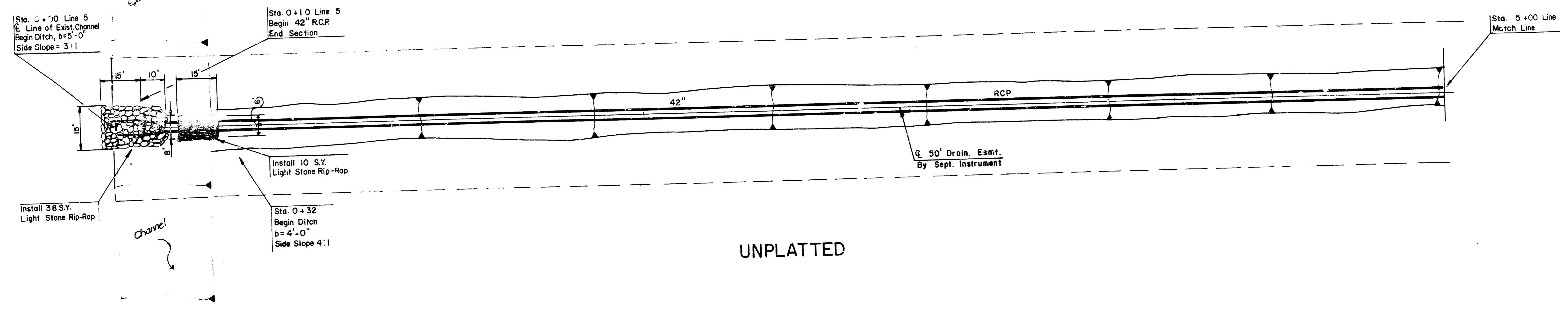
STA. 0+32 through STA. 5+60

NOTE: Contractor shall be responsible for seeding and mulching of ditches. Cost subsidiary to Project.



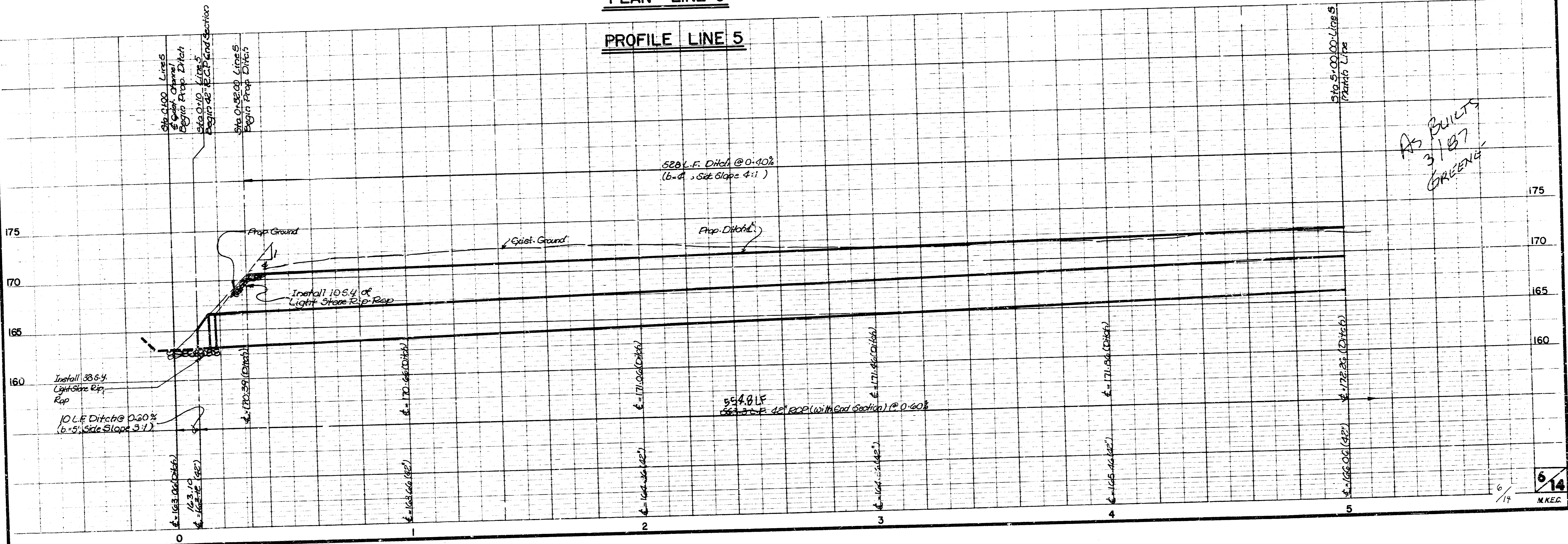
UNPLATTED

UNPLATTED



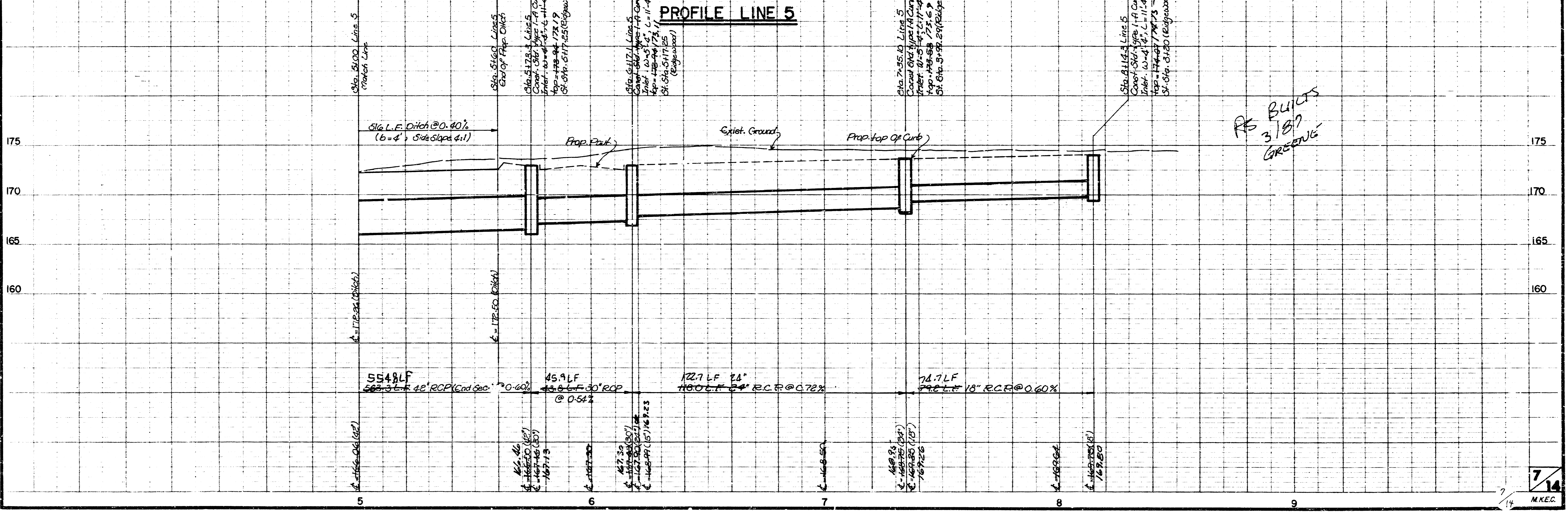
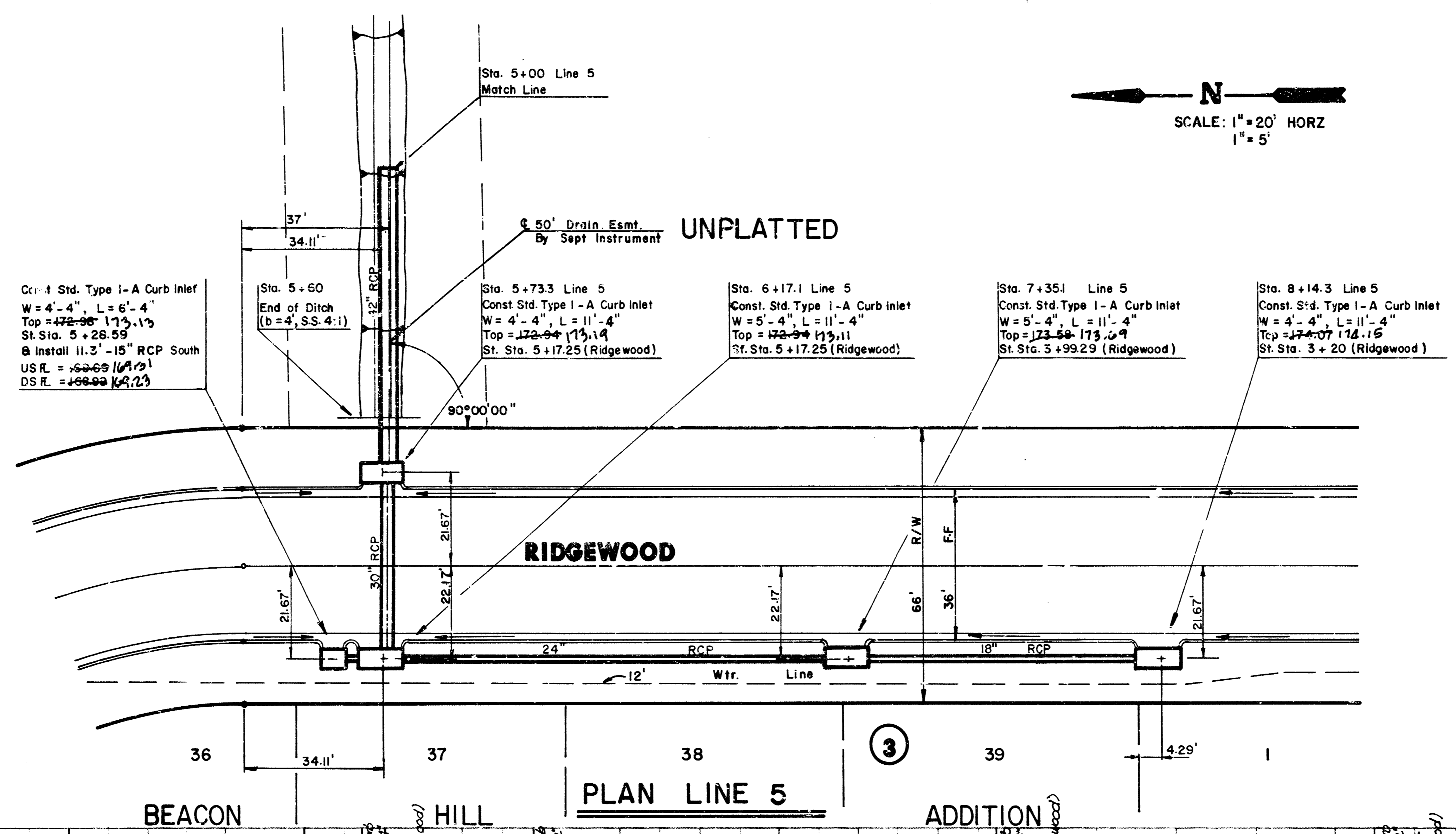
PLAN LINE 5

PROFILE LINE 5



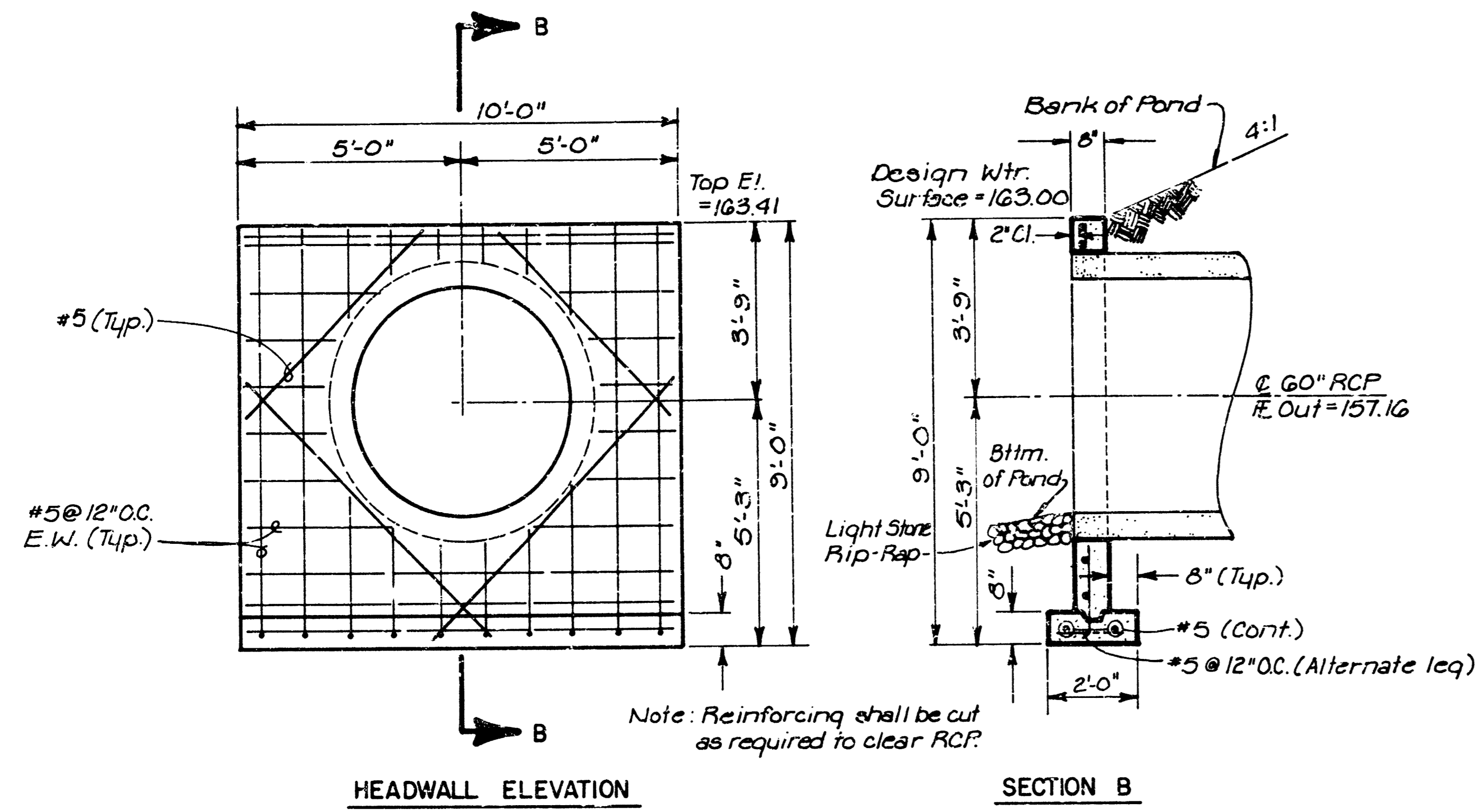
AS BUILT
 3/87
 GREENE

N
 SCALE: 1" = 20' HORZ
 1" = 5'

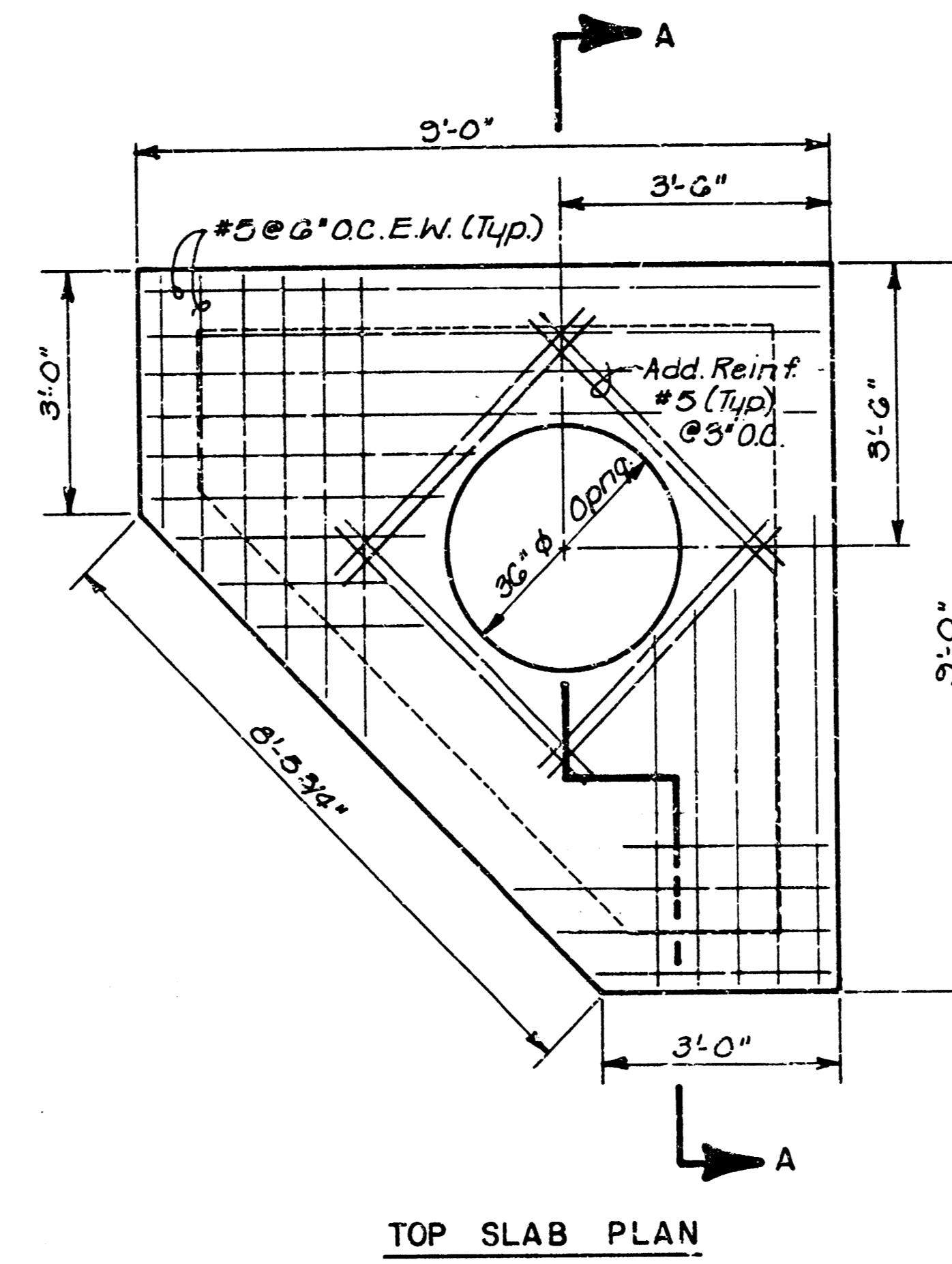


7/14
 M.K.E.C.

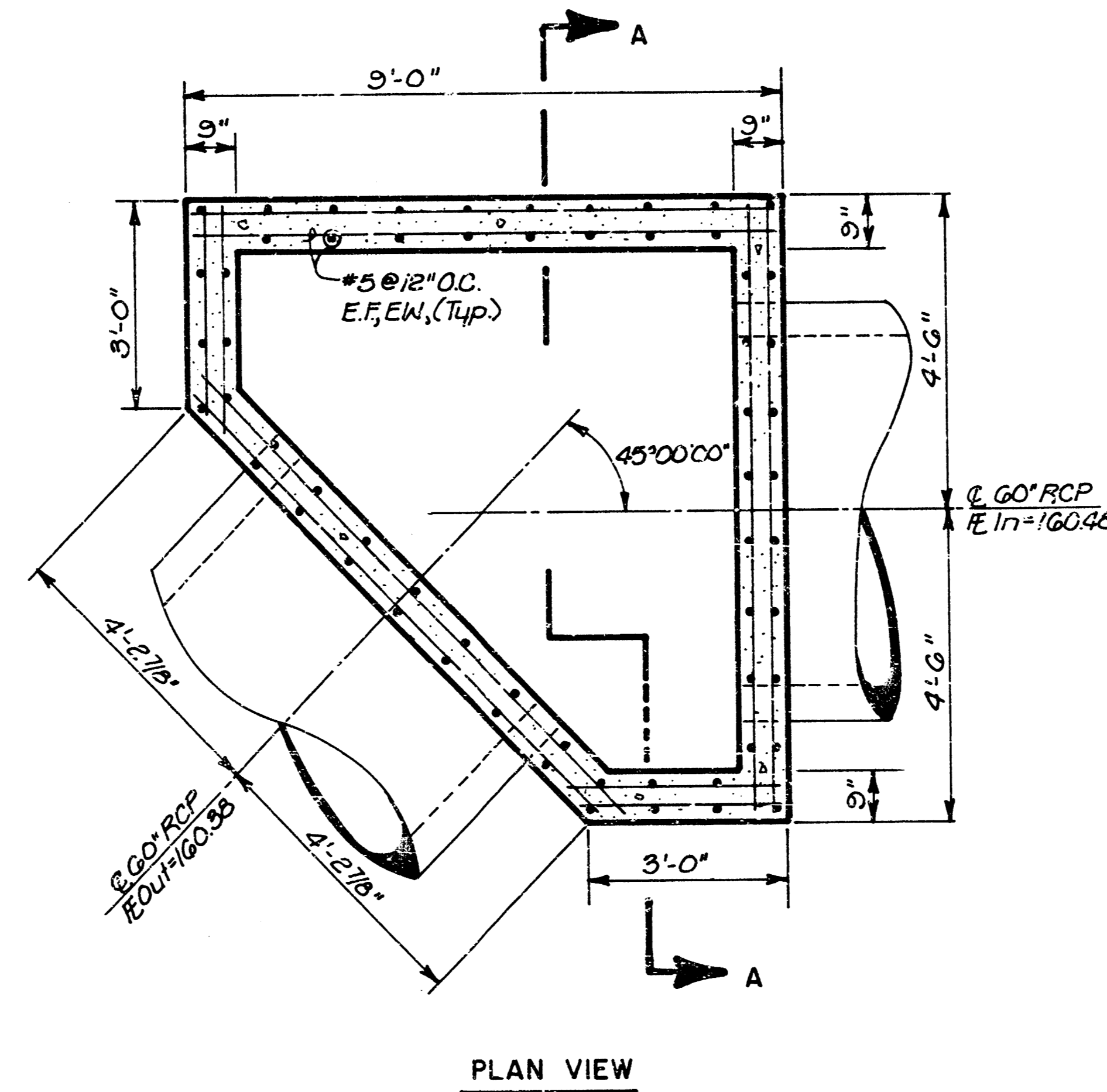
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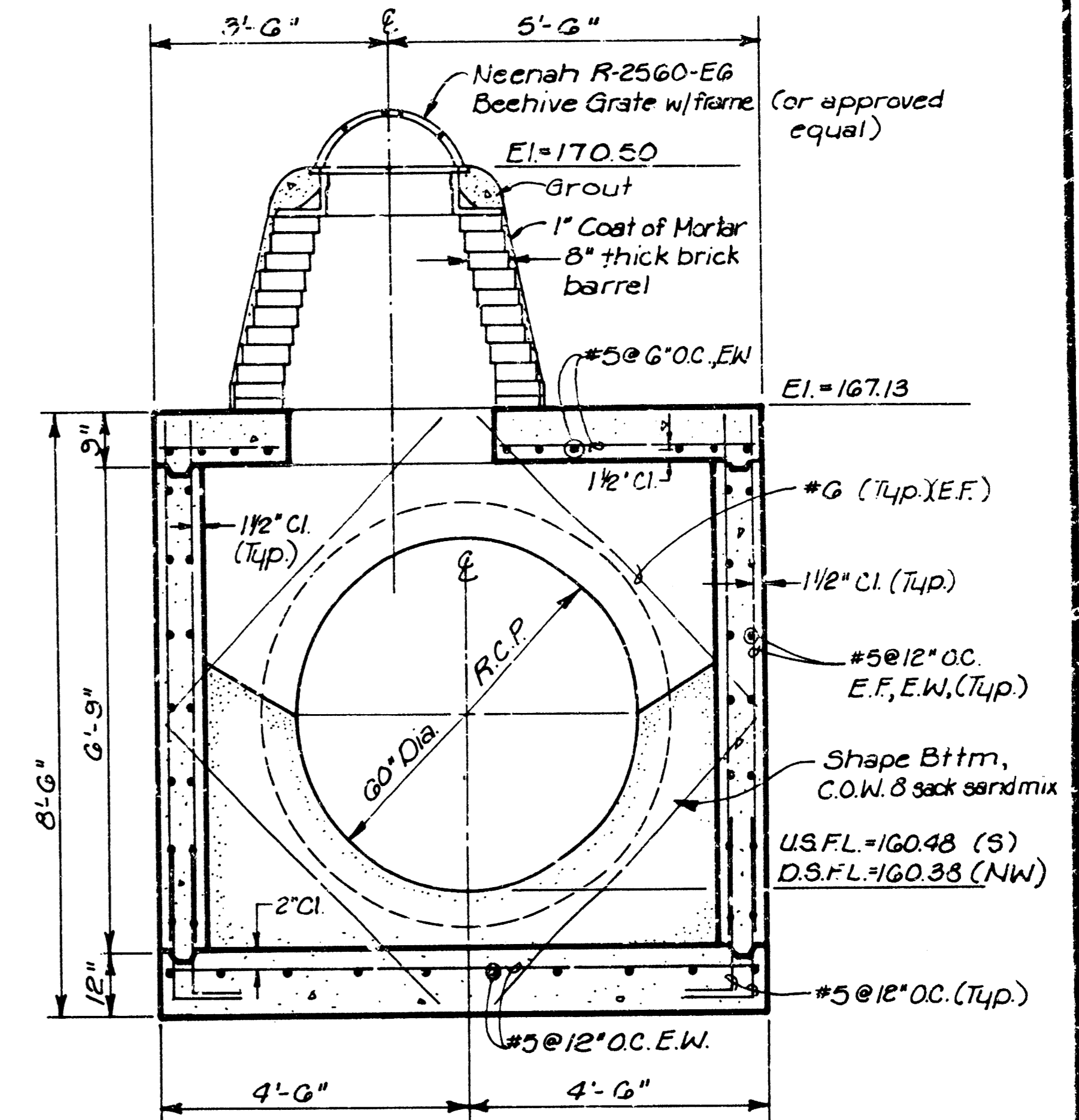
REINFORCED CONCRETE HEADWALL
STA. 0+00 LINE 4



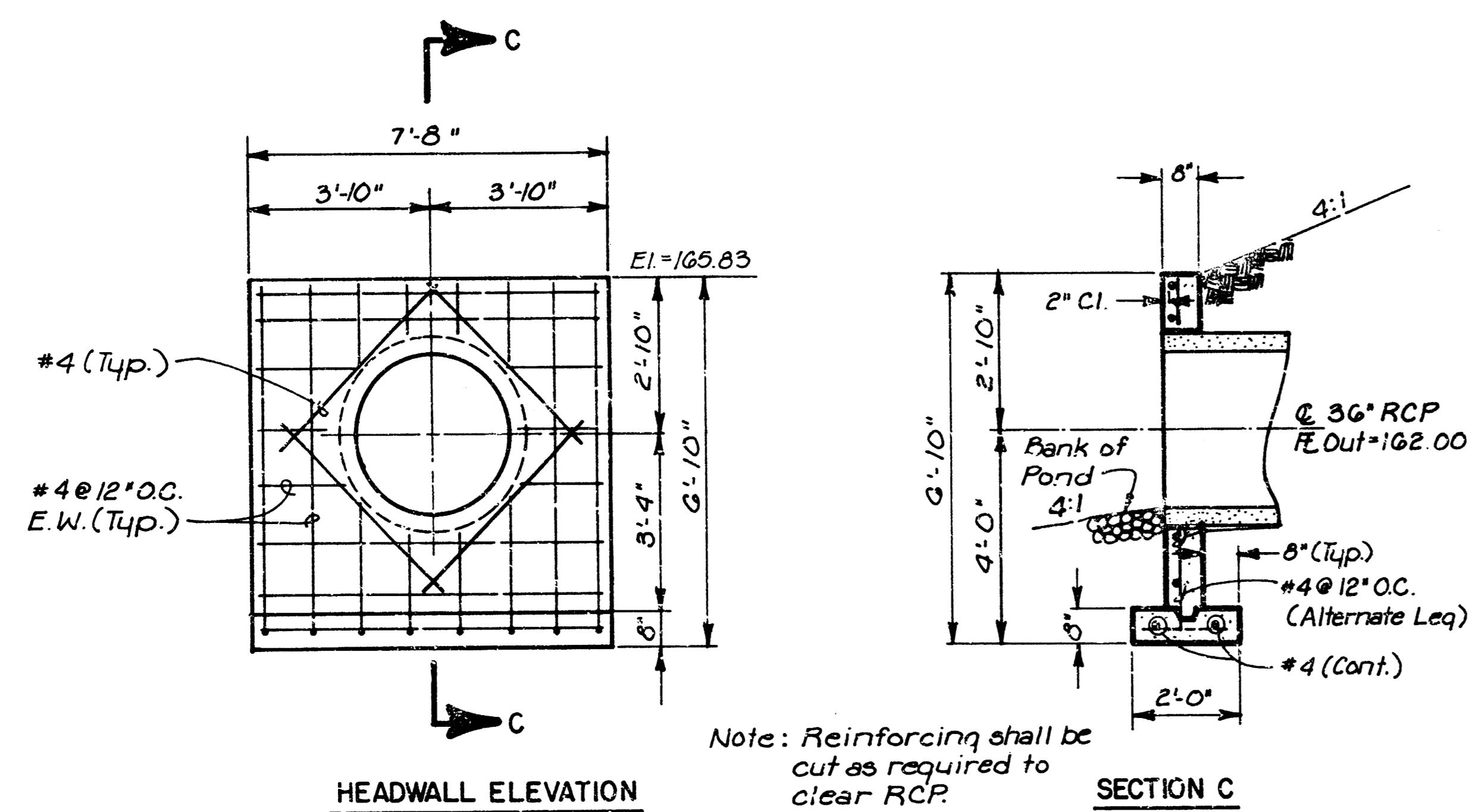
TOP SLAB PLAN
Note: Reinforcing shall be cut as required to clear RCP.



PLAN VIEW



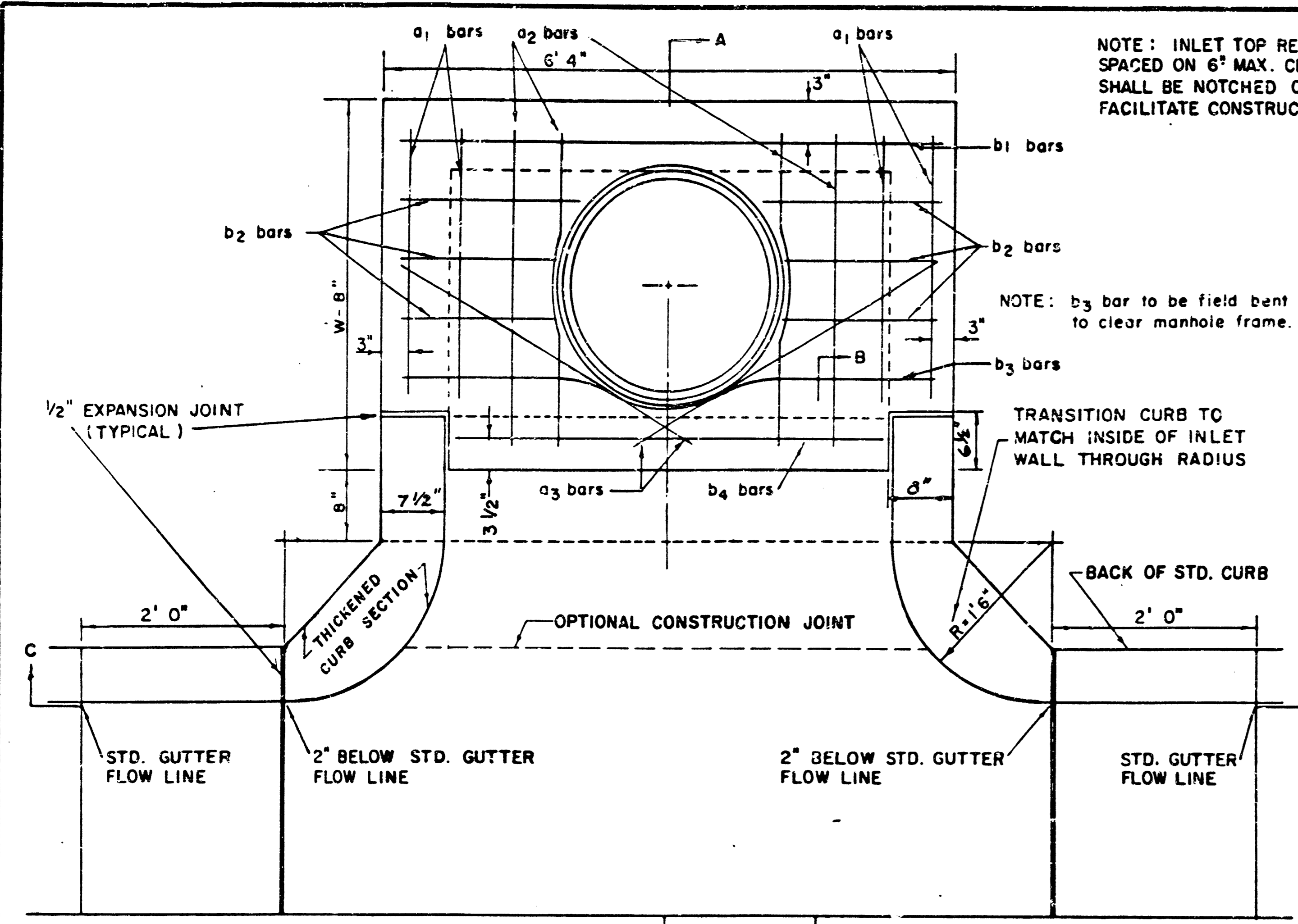
SPECIAL REINFORCED CONCRETE MANHOLE
STA. 1+40 LINE 4



REINFORCED CONCRETE HEADWALL
STA. 0+00 LINE 3

| | | |
|---|-------------------------|-----------------------------------|
| | BEACON HILL | Design: FBN |
| | | Drawn by: DPR |
| | S. W. S. DETAILS | Checked by: |
| | | Date: AUG. 1986 |
| | | Job no.: |
| MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226 | 682-6361 | Sheet 8 of 14 |

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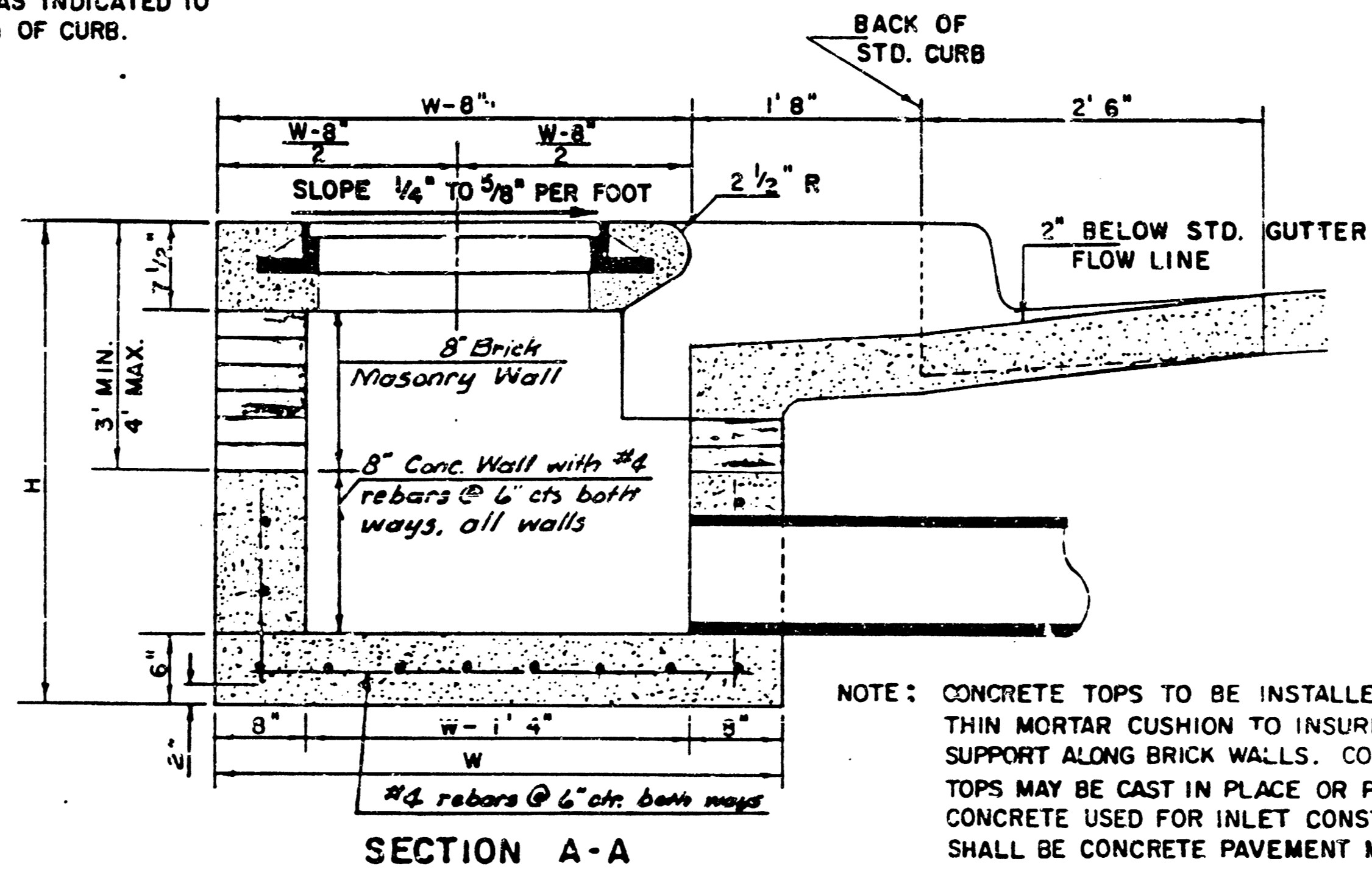
NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

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

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS

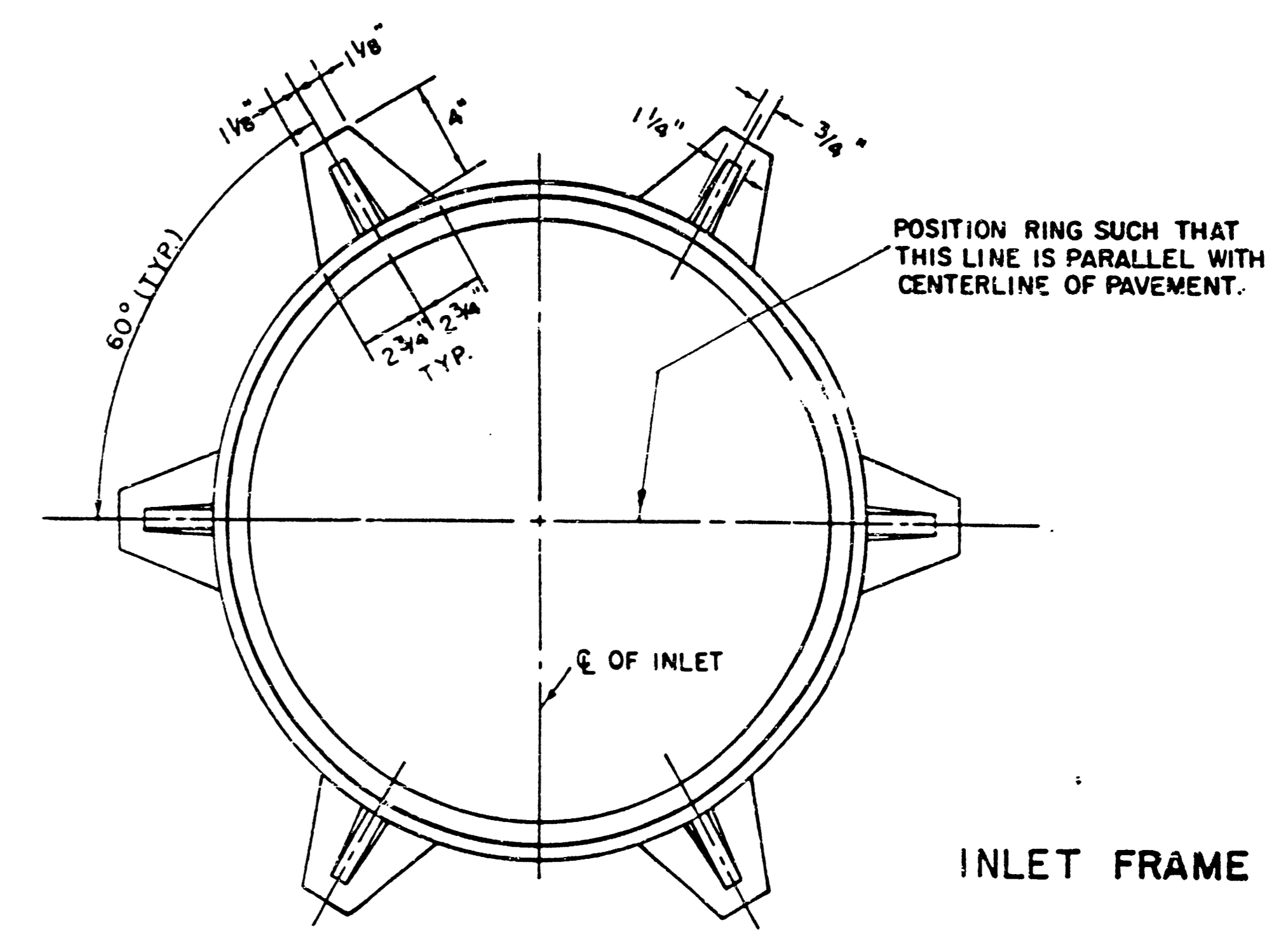
NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

PLAN



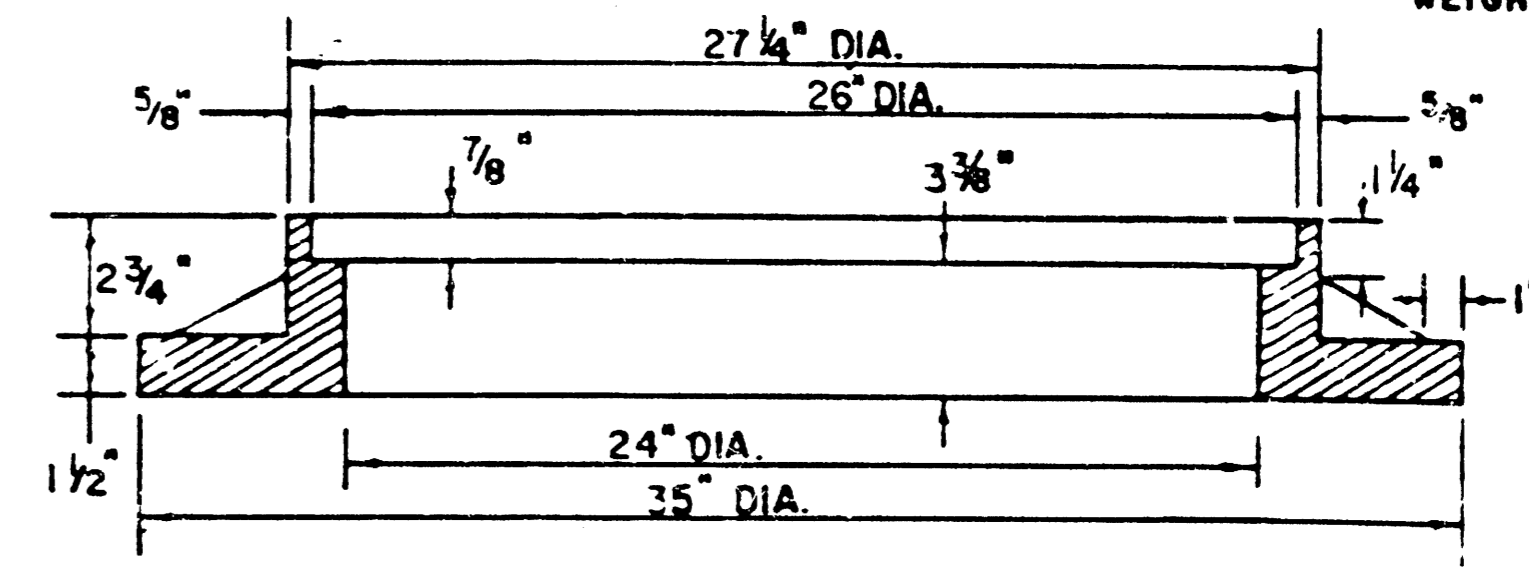
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

SECTION A-A



INLET FRAME

WEIGHT = 180 LBS.

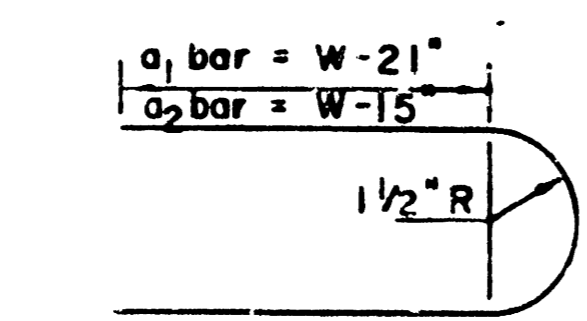


SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

STEEL SCHEDULE

| BAR NUMBER | a1 | a2 | a3 | W=4'4" | W=5'4" | W=6'4" | W=7'4" | W=8'4" | b2 | b3 | b4 | WT. LBS. |
|------------|-------|-------|------|--------|--------|--------|--------|--------|------|------|------|----------|
| SIZE | #4 | #4 | #4 | #4 | #4 | #4 | #4 | #4 | #4 | #4 | #6 | |
| W=4'4" | 5'7" | 6'7" | 4'0" | 6'1" | - | - | - | - | 1'9" | 6'2" | 4'8" | 60± |
| W=5'4" | 7'7" | 8'7" | 5'0" | 6'1" | - | - | - | - | 1'9" | 6'2" | 4'8" | 81± |
| W=6'4" | 9'7" | 10'7" | 6'0" | 6'1" | - | - | - | - | 1'9" | 6'2" | 4'8" | 101± |
| W=7'4" | 11'7" | 12'7" | 7'0" | 6'1" | - | - | - | - | 1'9" | 6'2" | 4'8" | 121± |
| W=8'4" | 13'7" | 14'7" | 8'0" | 6'1" | - | - | - | - | 1'9" | 6'2" | 4'8" | 141± |

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



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

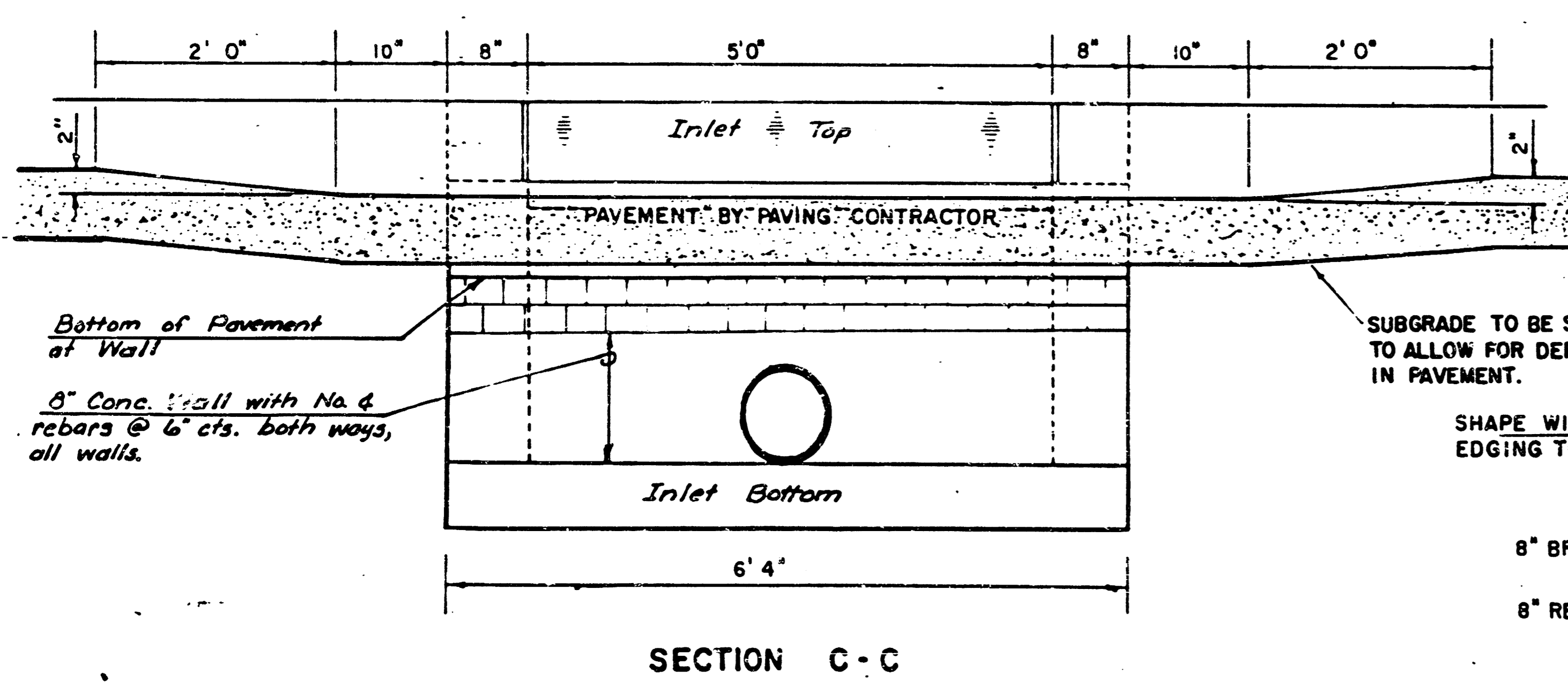
| W | PRE-CAST TOP SIZE | PIPE SIZE | CU. YD. CONC. |
|-------|----------------------|---------------|---------------|
| 4' 4" | 5'8" x 6'4" x 7 1/2" | 21" B SMALLER | 0.38 ± |
| 5' 4" | 6'8" x 6'4" x 7 1/2" | 24" B 30" | 0.51 ± |
| 6' 4" | 7'8" x 6'4" x 7 1/2" | 36" B 42" | 0.64 ± |
| 7' 4" | 8'8" x 6'4" x 7 1/2" | 48" B 54" | 0.77 ± |
| 8' 4" | 9'8" x 6'4" x 7 1/2" | 60" B 66" | 0.90 ± |

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.

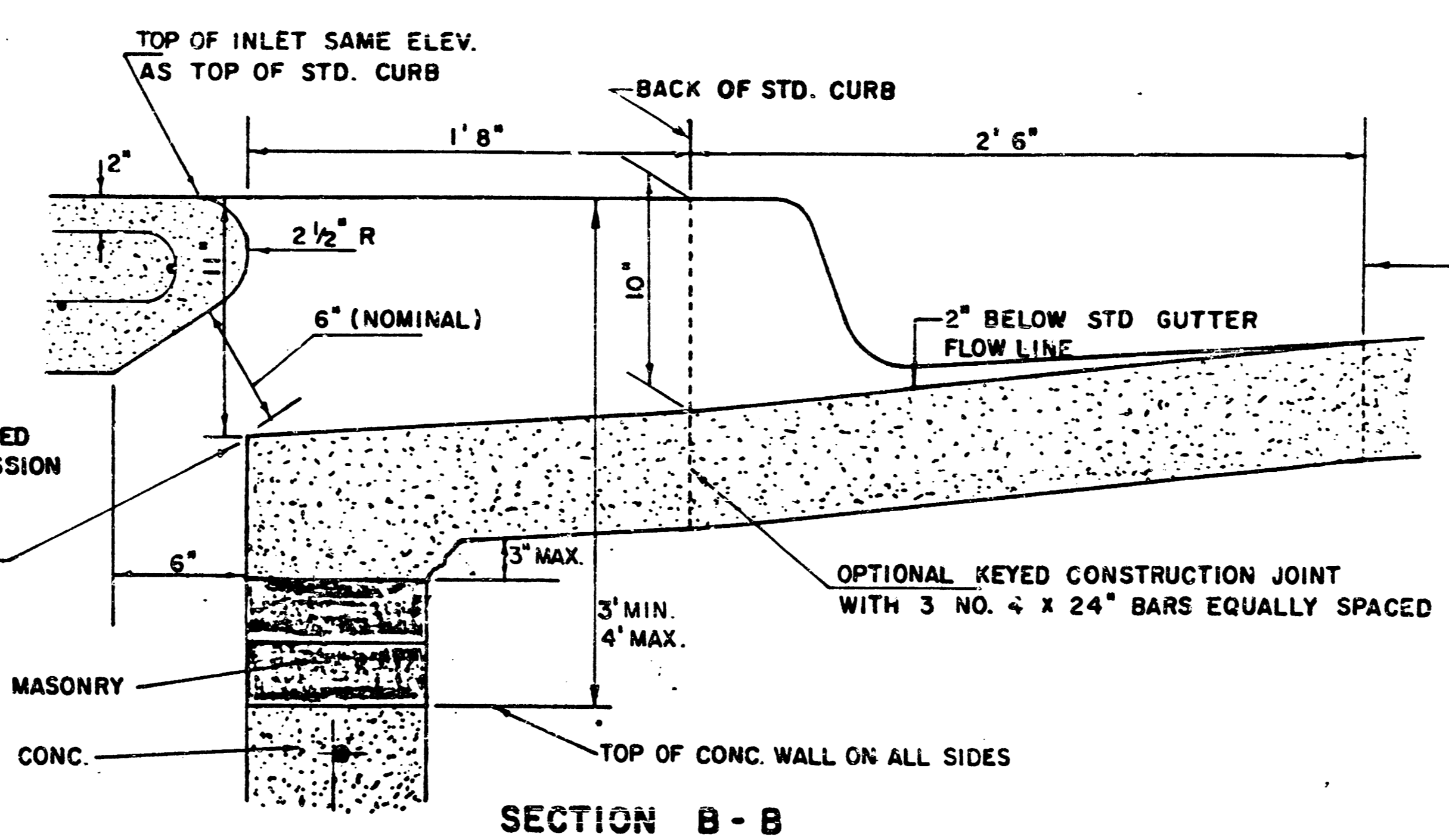
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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 C-C



SECTION B-B

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

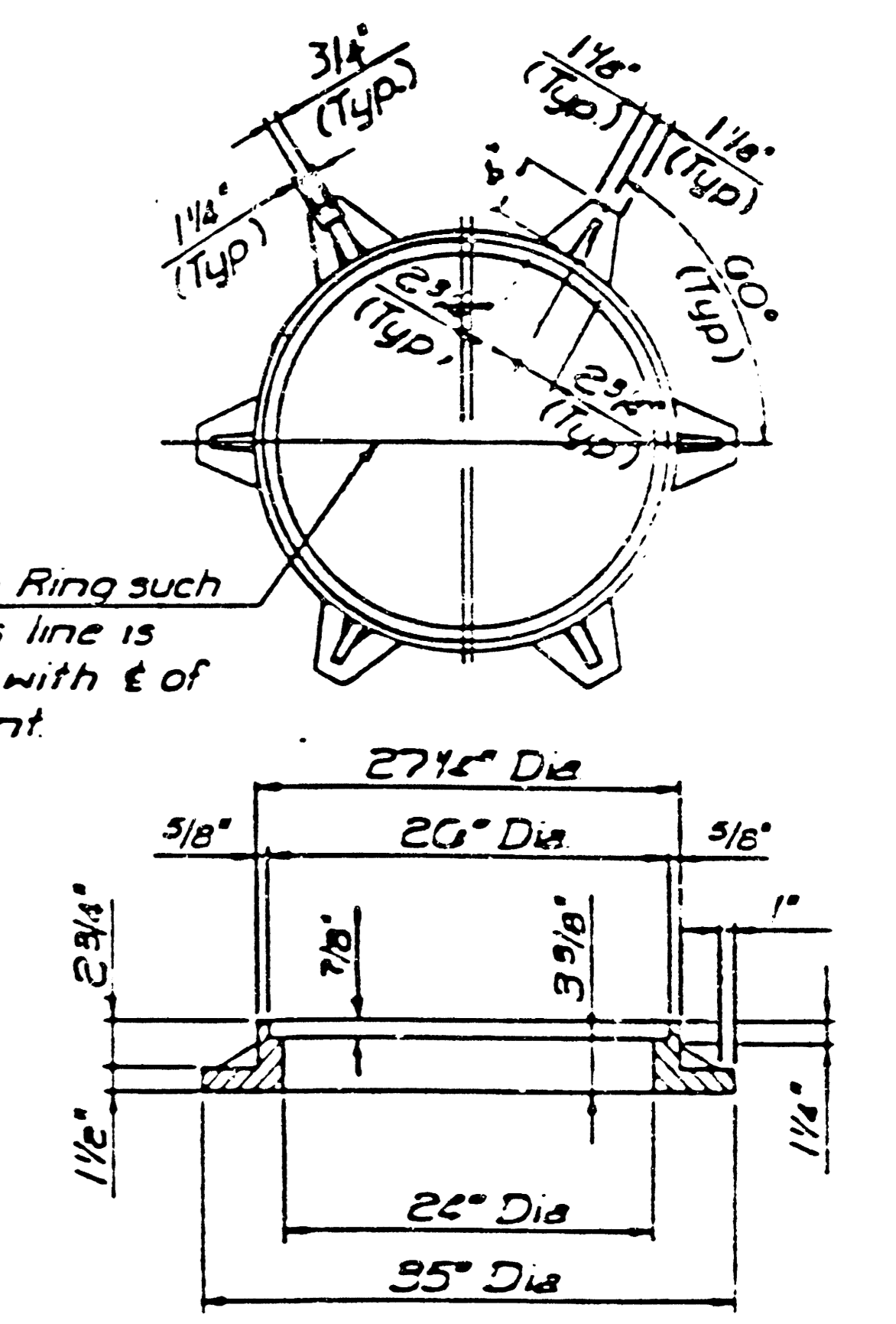
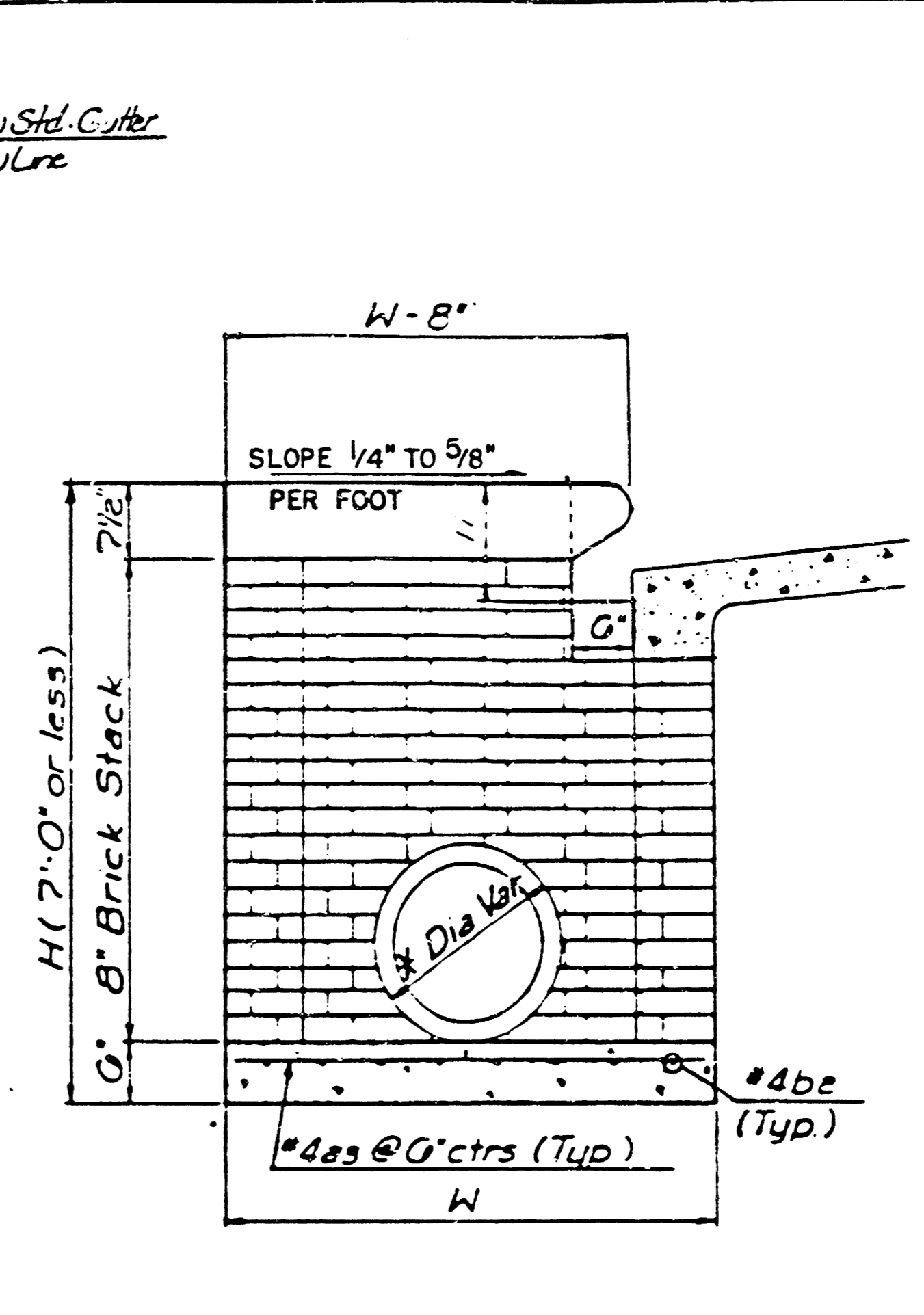
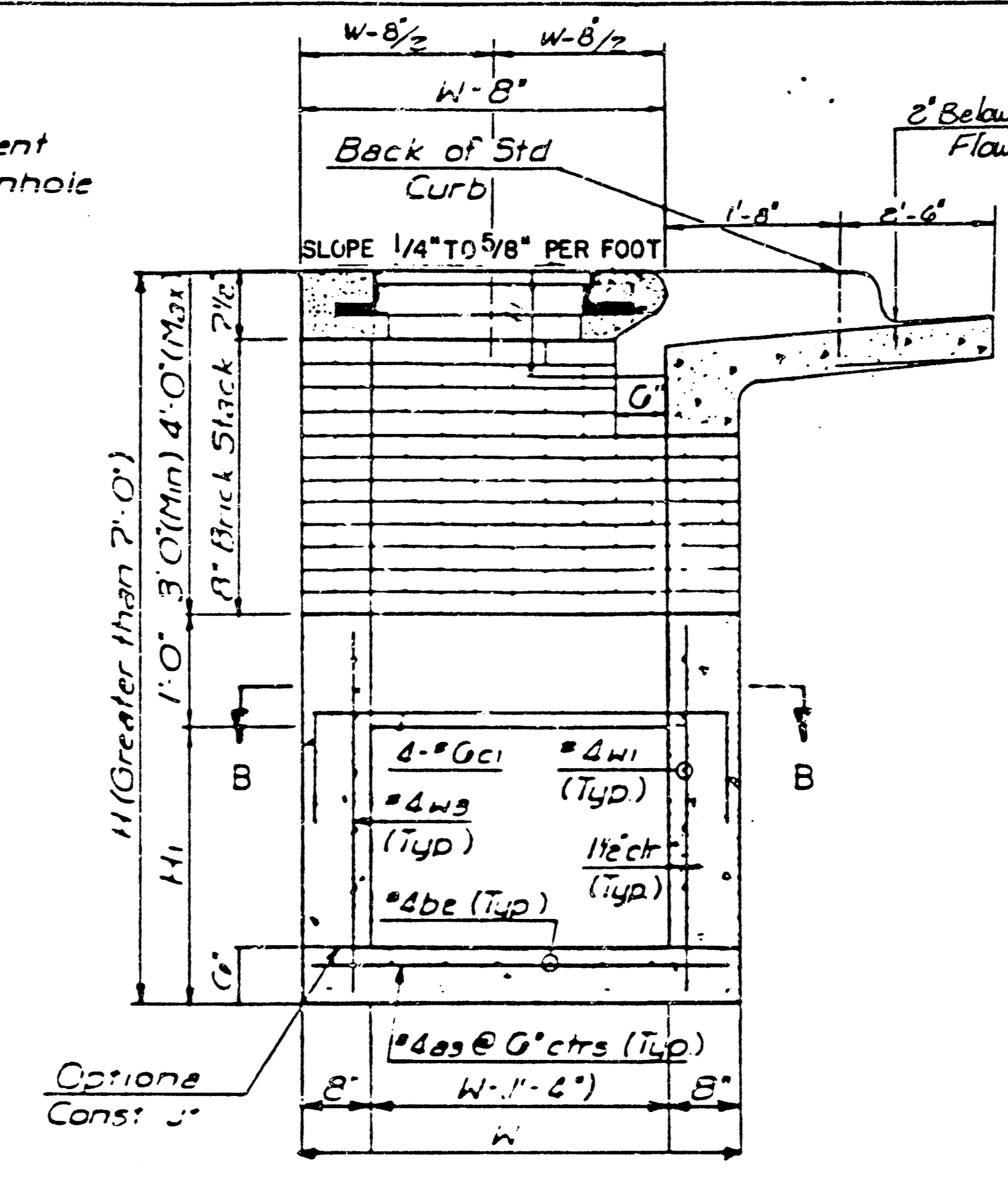
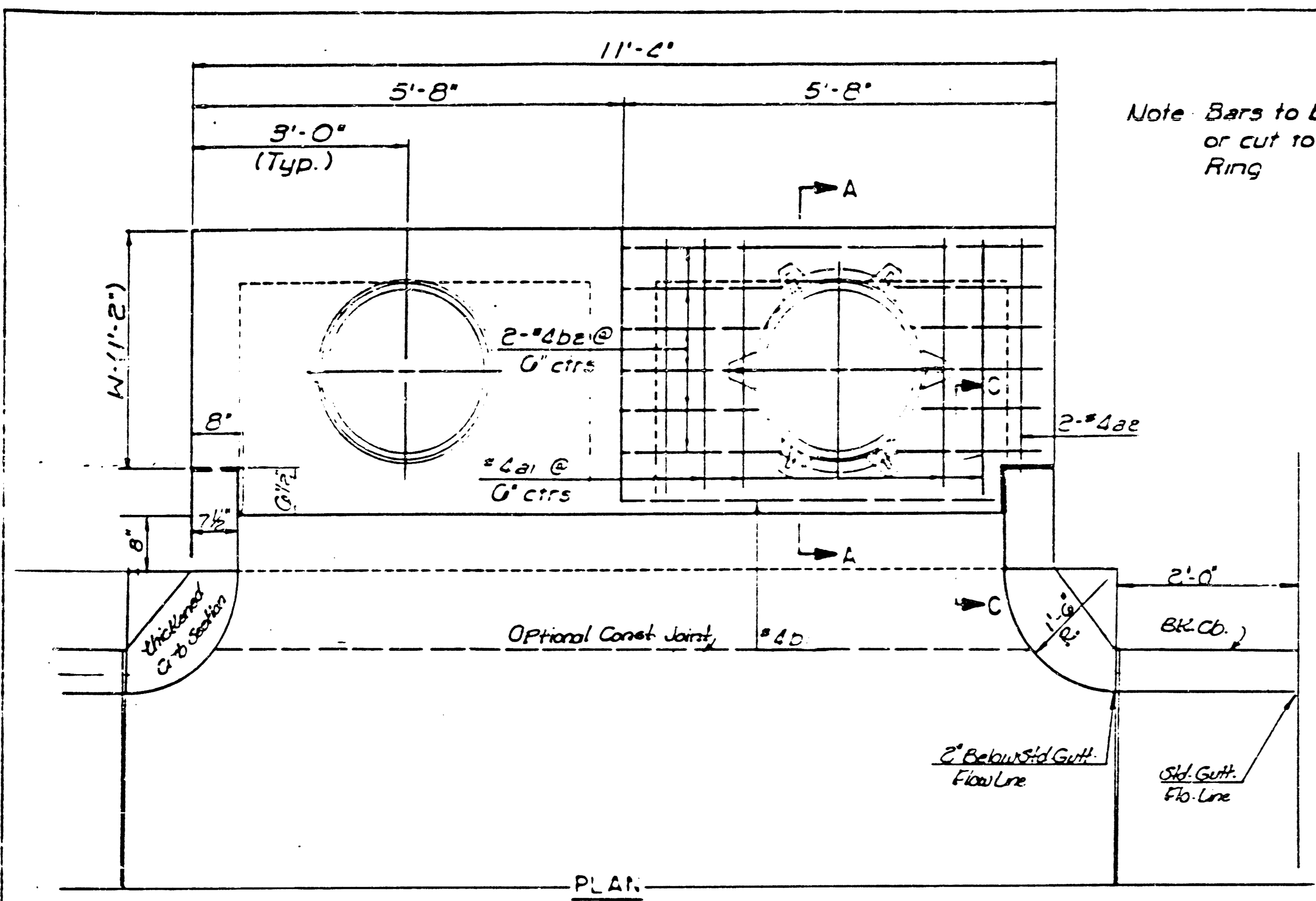
REVISED 12-21-1984

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

JUNE 1984



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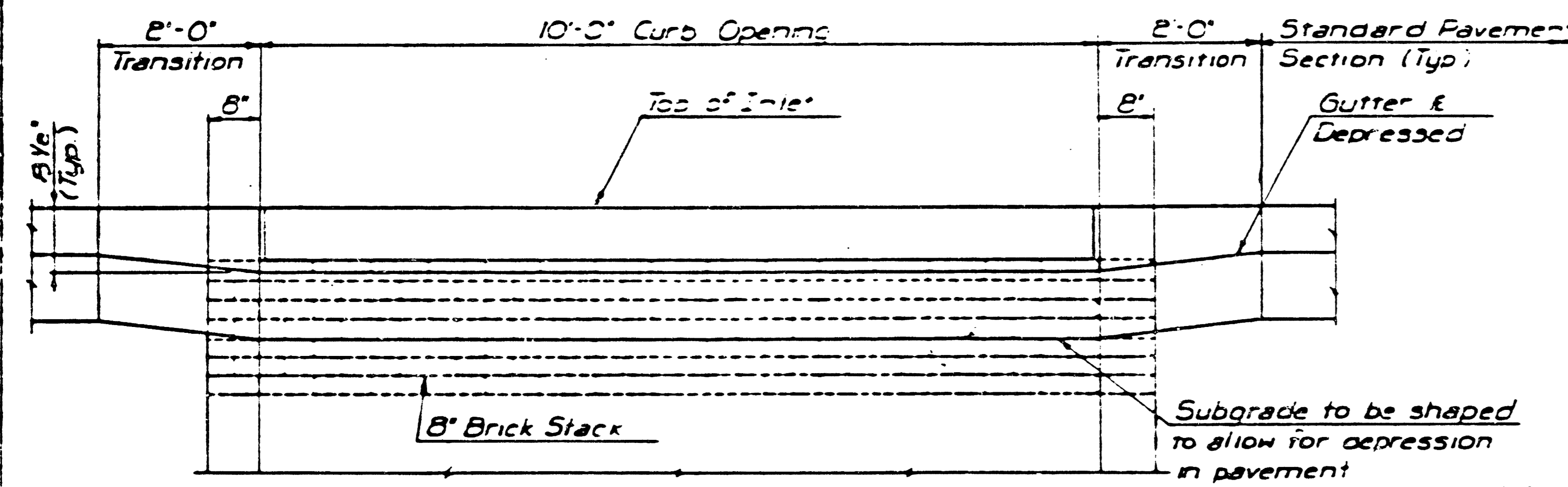


INLET FRAME (Weight = 180 LBS)

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

GENERAL NOTES
 Concrete shall be COW Standard Paving Mix All exposed edges shall be finished with an edging tool.
 Reinforcing Bars shall be field bent or cut to clear pipes.
 All bars are #4 bars at 6" Spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted.
 Floors of inlet shall be shaped with 8 Sack Sand Mix Concrete to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outfall pipes(s).
 The Contractor shall have the option of constructing 8" Brick Masonry Walls between the concrete inlet base and top on this inlet when H=7'-0" or less and W=6'-4" or less.

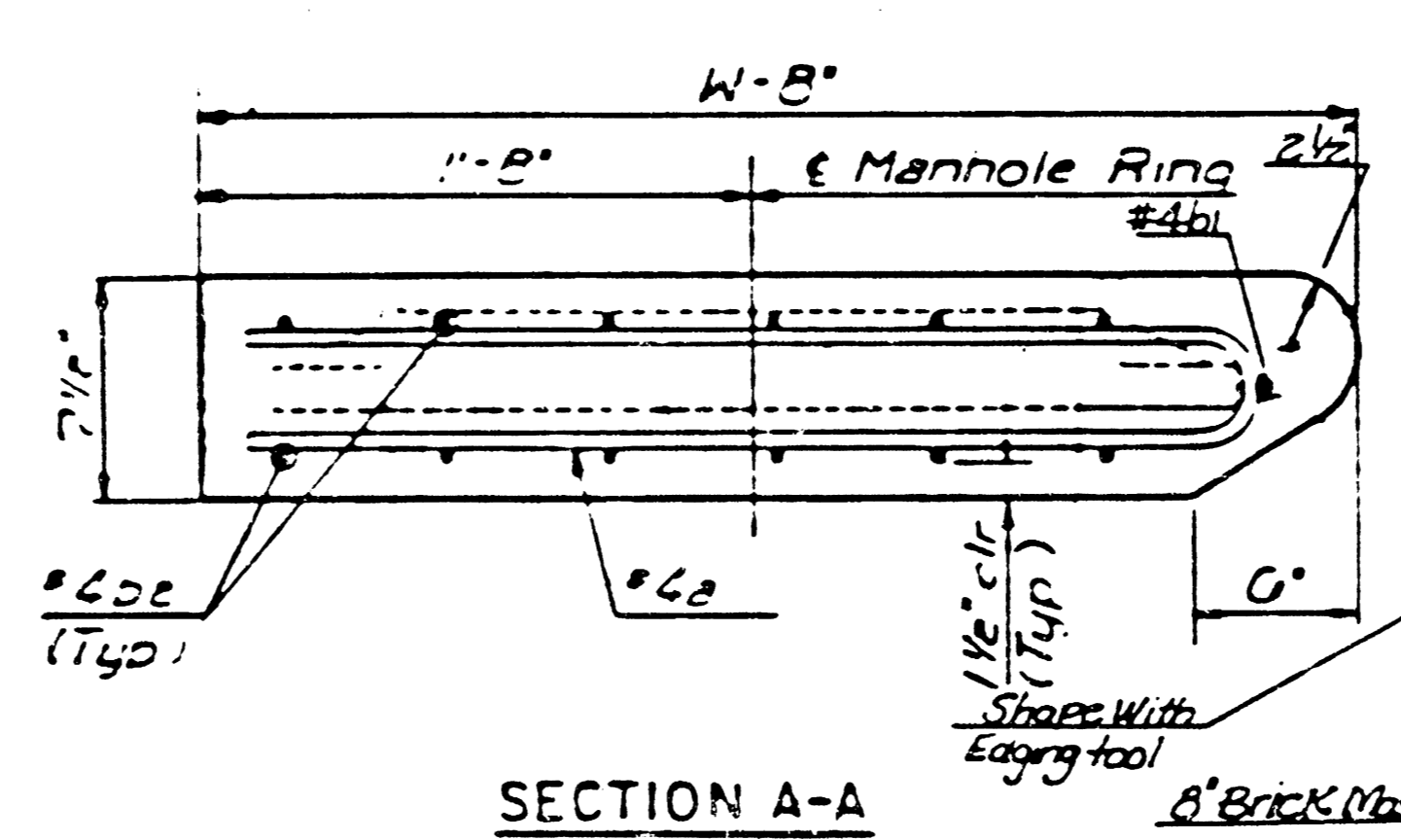
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



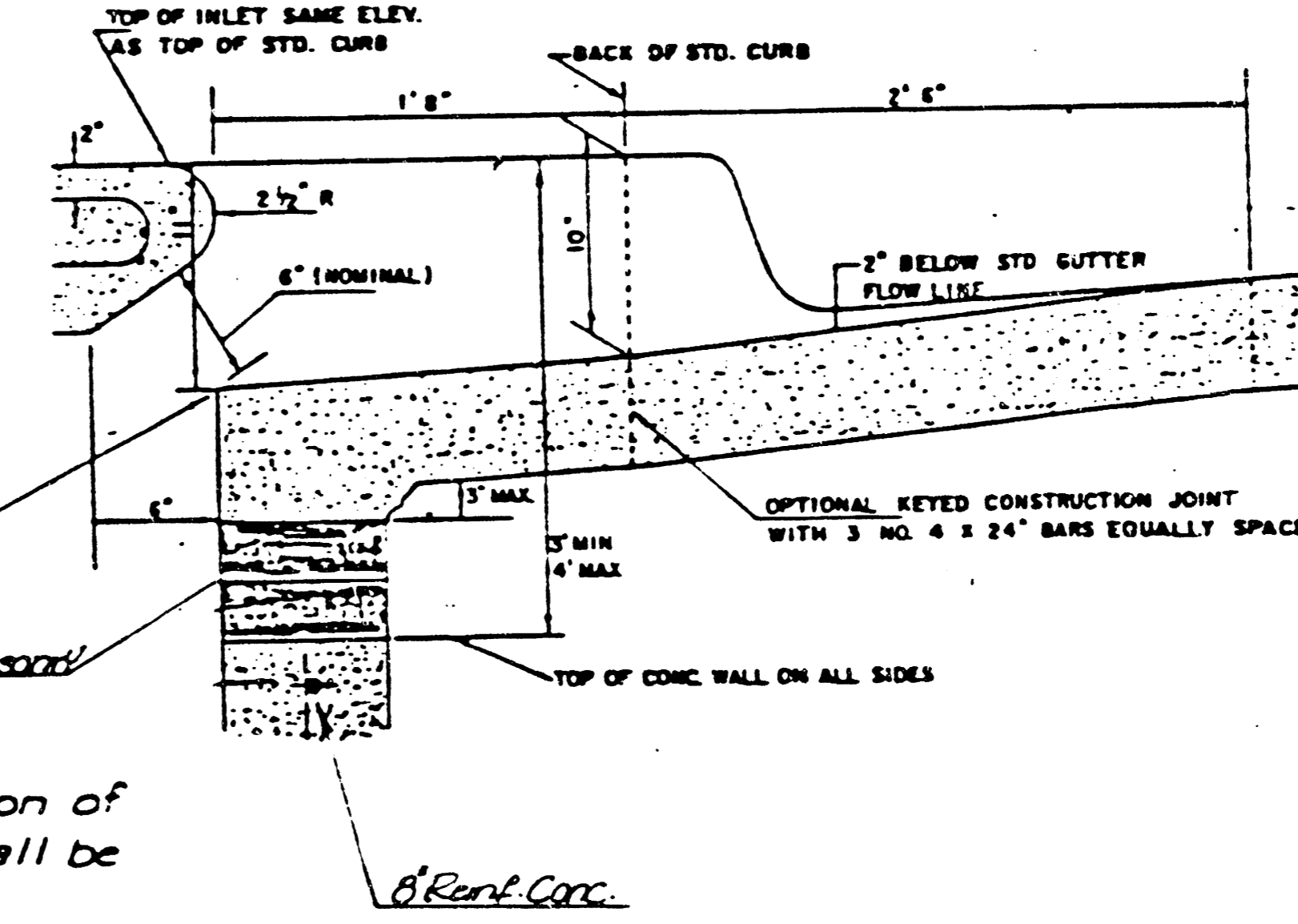
ELEVATION

* A center wall opening shall be provided by means of a section of reinforced concrete pipe. The minimum diameter used shall be that of the outlet pipe.

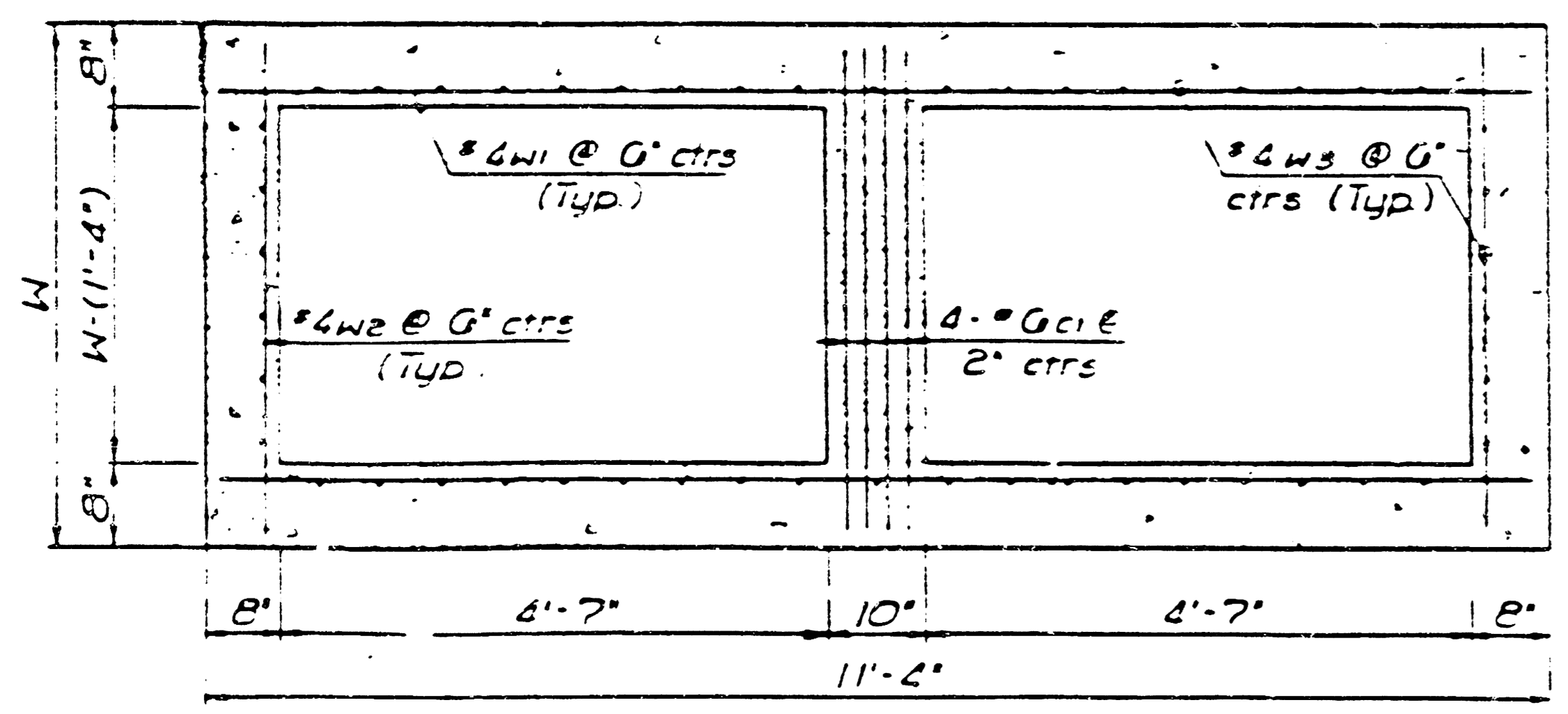
Note Concrete top to be installed on thin mortar cushion to insure full support along walls



SECTION A-A



SECTION C-C



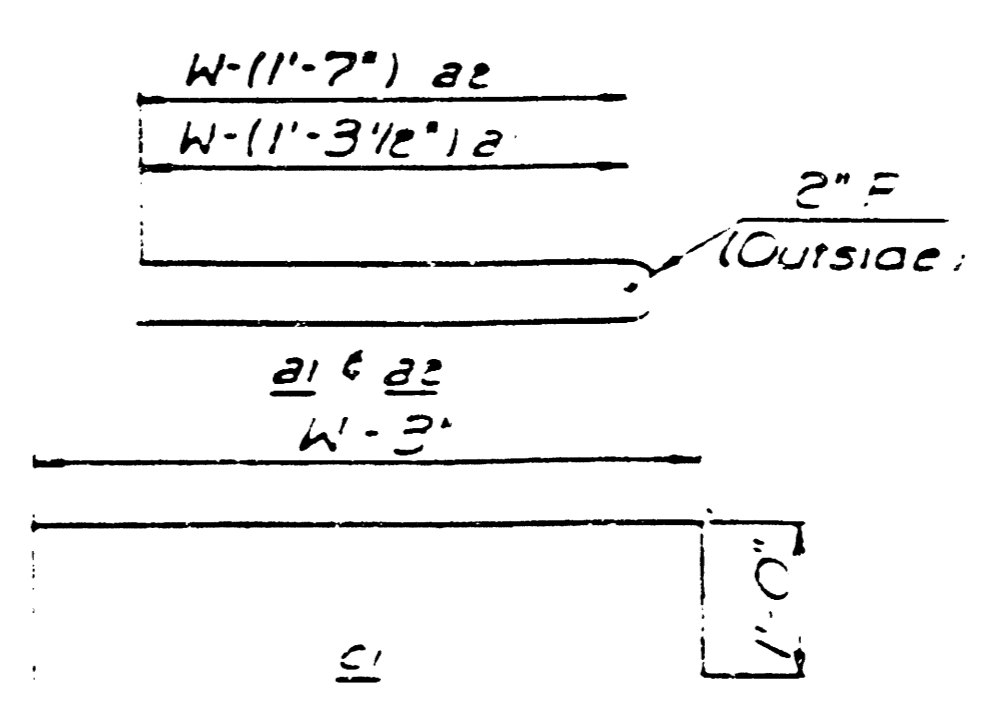
SECTION B-B

| 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 | 1 | 9'-8" | 1 | 9'-8" | 1 | 9'-8" | 1 | 9'-8" | 1 | 9'-8" |
| a4 | #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 | 2 | 0'-11" | 2 | 2'-1" | 2 | 3'-1" | 2 | 4'-1" | 2 | 5'-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 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2 | 5 |

* Field bend or cut Reinforcing as required for clearance

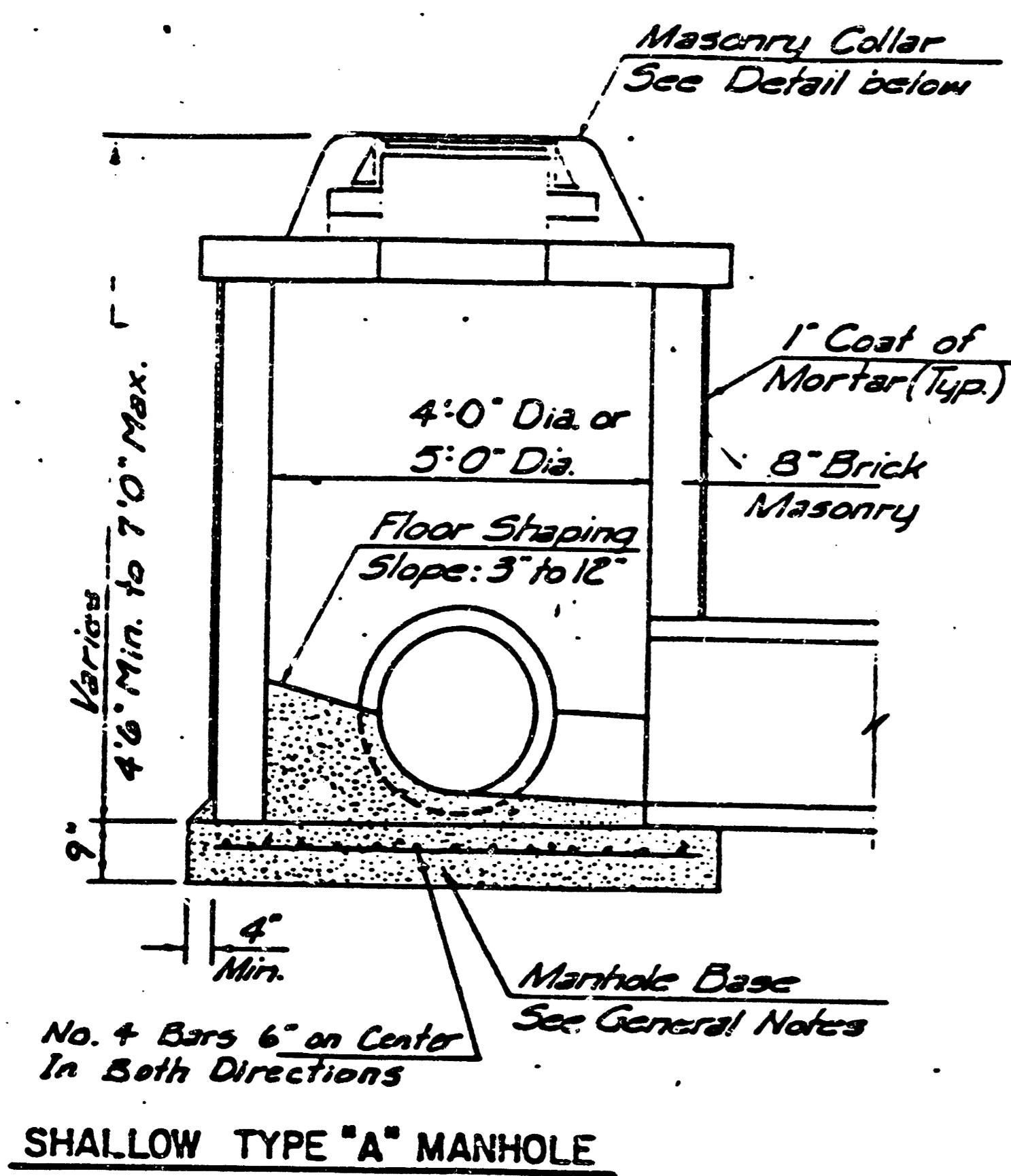
① 4 (H1-0") ② 40 x 4 (W-1) ③ H1-10"



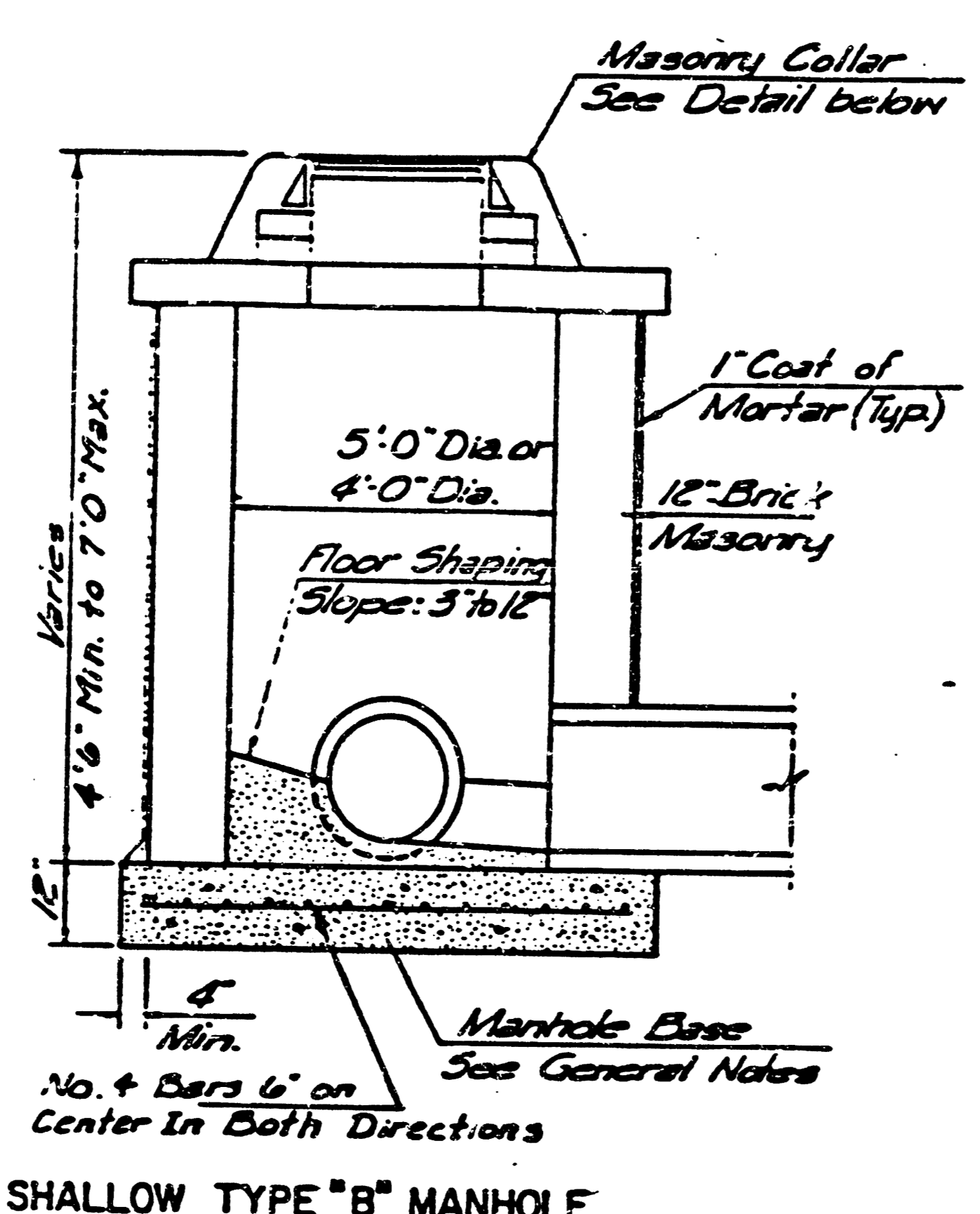
BENDING DIAGRAMS

DETAIL STANDARD
 TYPE IA CURB INLET
 INLET OPENING = 6" x 10'-0"
 CITY OF WICHITA
 M. E. LINDEBAK, CITY ENGINEER
 OCTOBER 1984

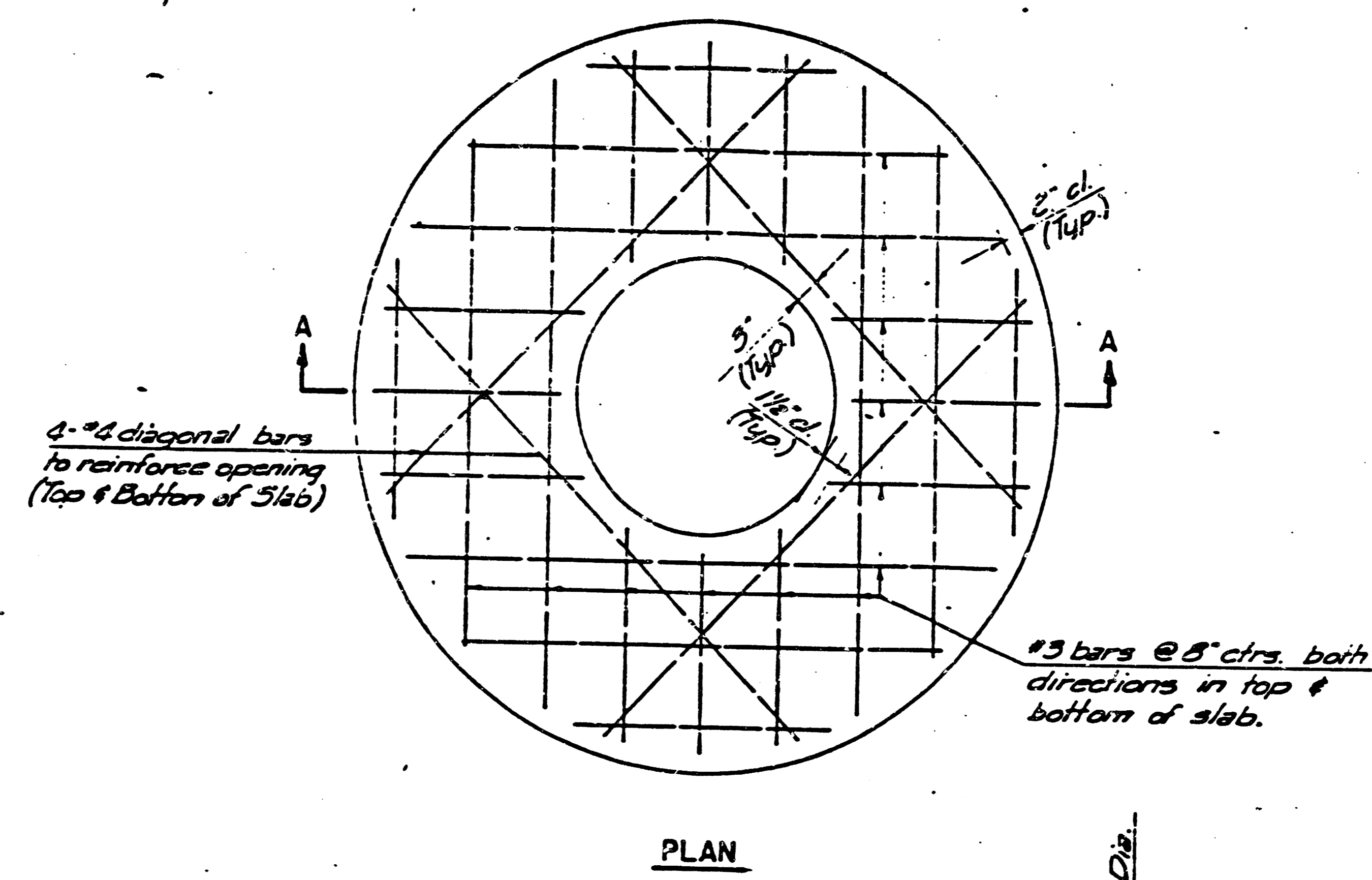
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SHALLOW TYPE "A" MANHOLE



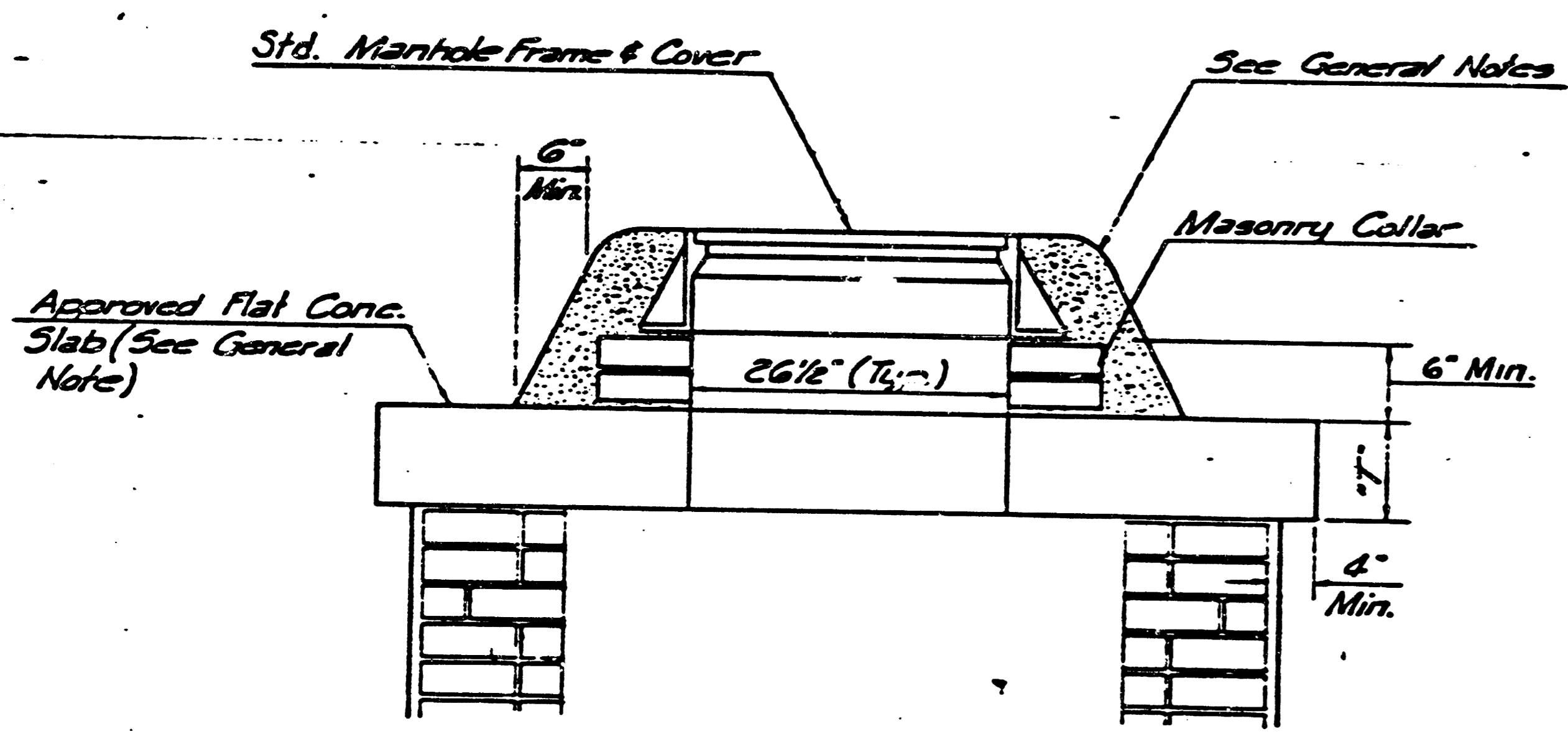
SHALLOW TYPE "B" MANHOLE



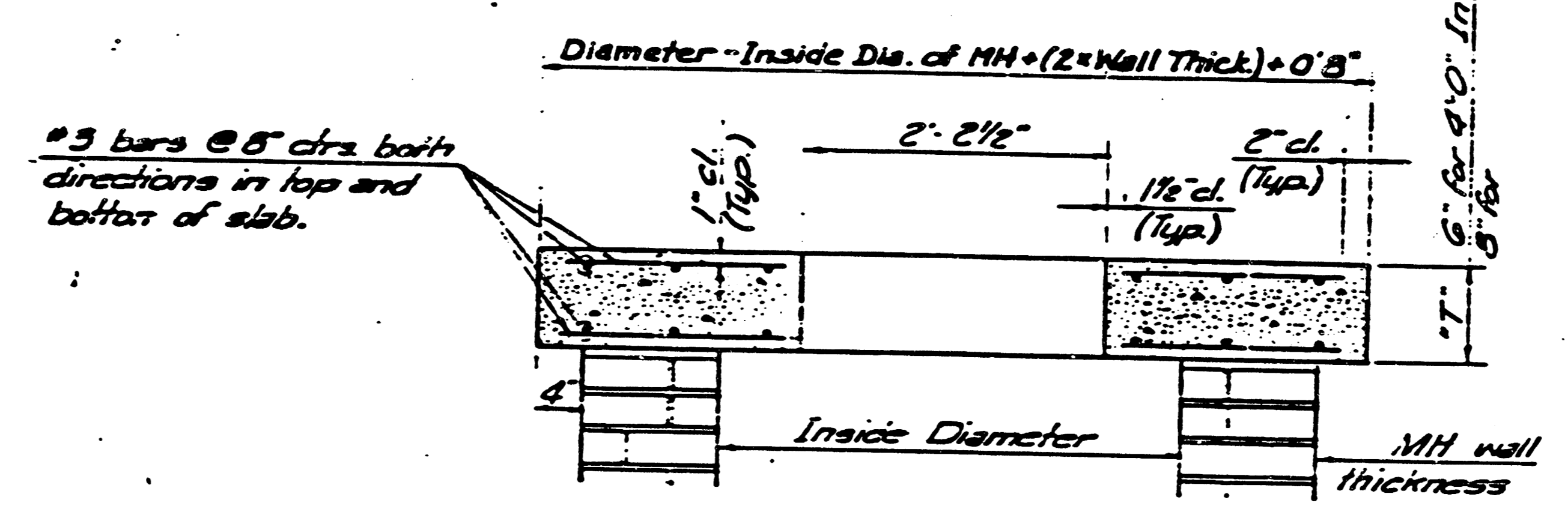
PLAN

GENERAL NOTES

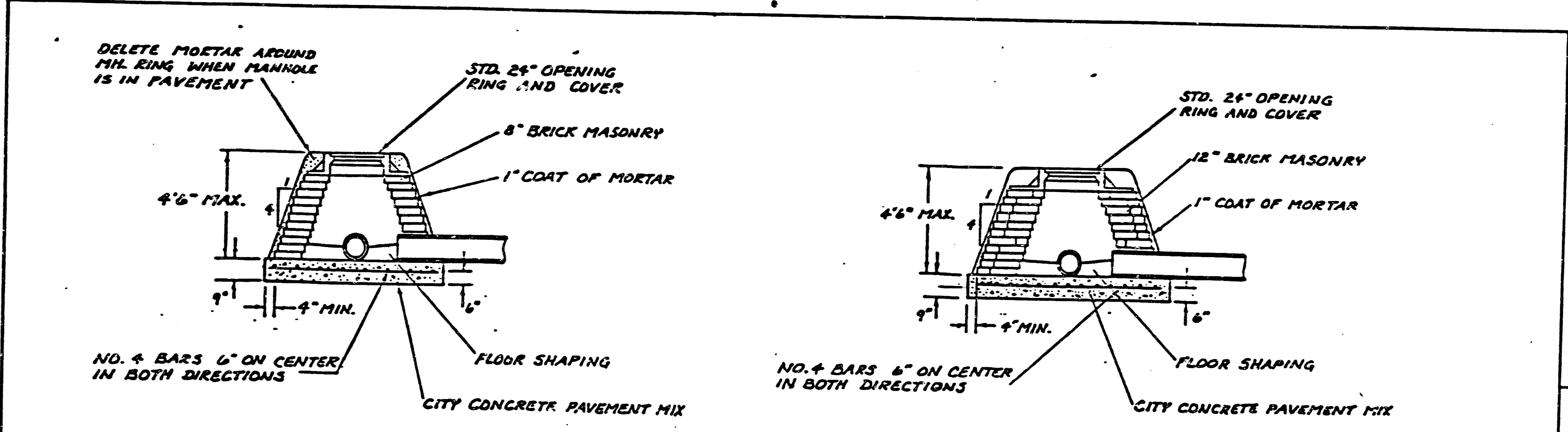
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING 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.
- 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 THE 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 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 REINFORCED TO HEAT 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 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 DRAWINGS.
- THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD SHALLOW MANHOLE TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FUM 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.



MASONRY COLLAR DETAIL



SECTION A-A
FLAT CONCRETE SLAB DETAILS



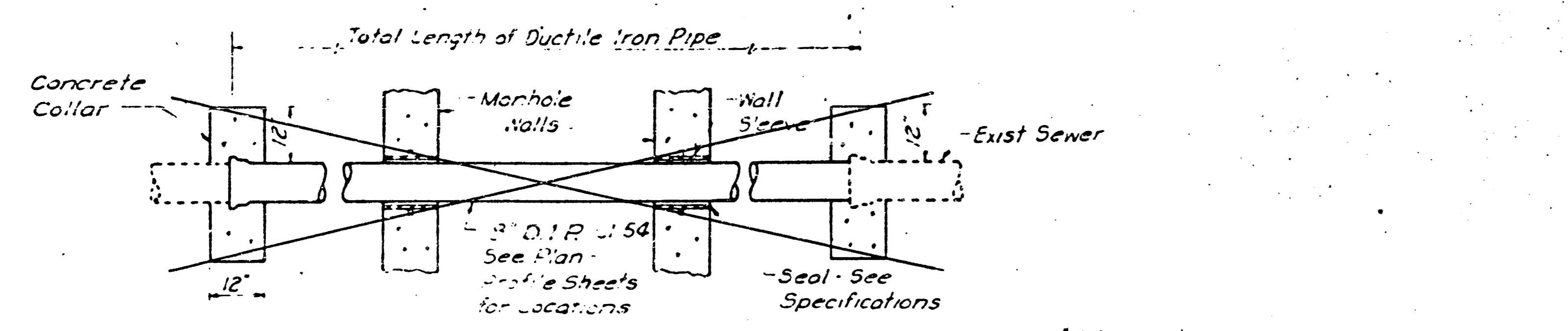
SPECIAL SHALLOW TYPE 'A' MANHOLE

SPECIAL SHALLOW TYPE 'B' MANHOLE

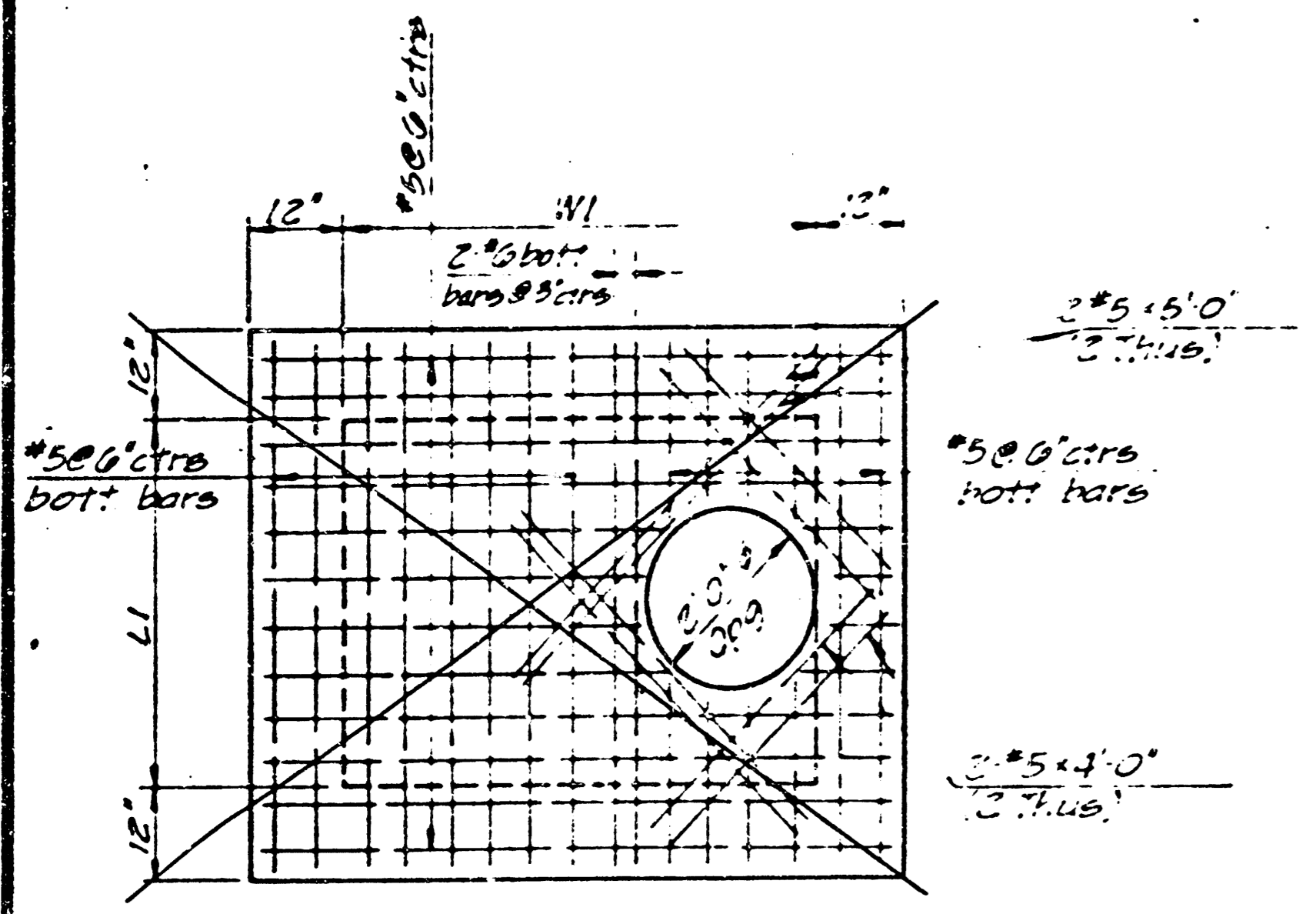
CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLES
TYPE 'A' AND TYPE 'B'

| | | |
|-------------|------------|----|
| Designed by | Checked by | 11 |
| Drawn by | Date | 14 |
| | Job No. | |

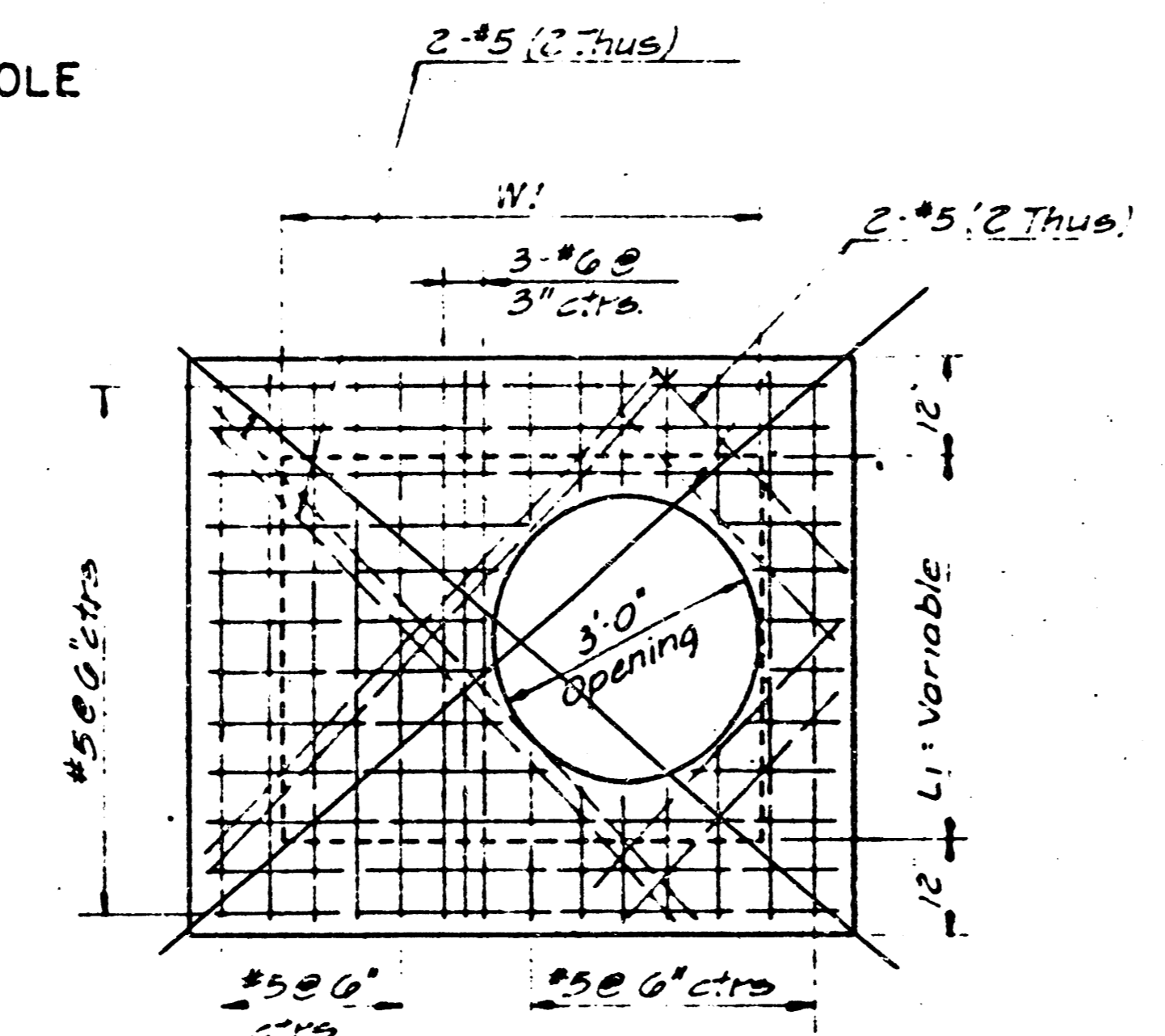
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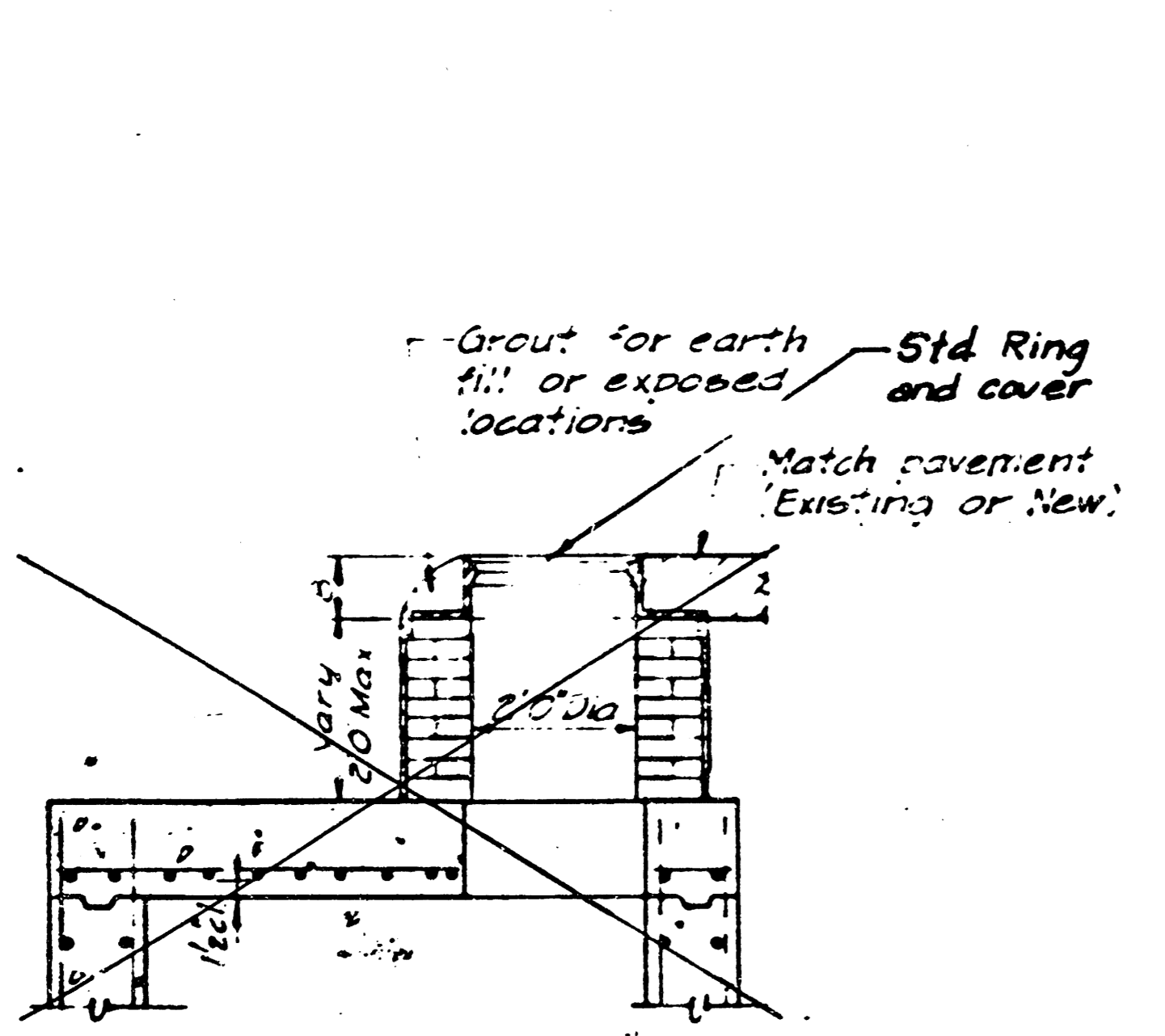
SANITARY SEWER PIPE THRU MANHOLE



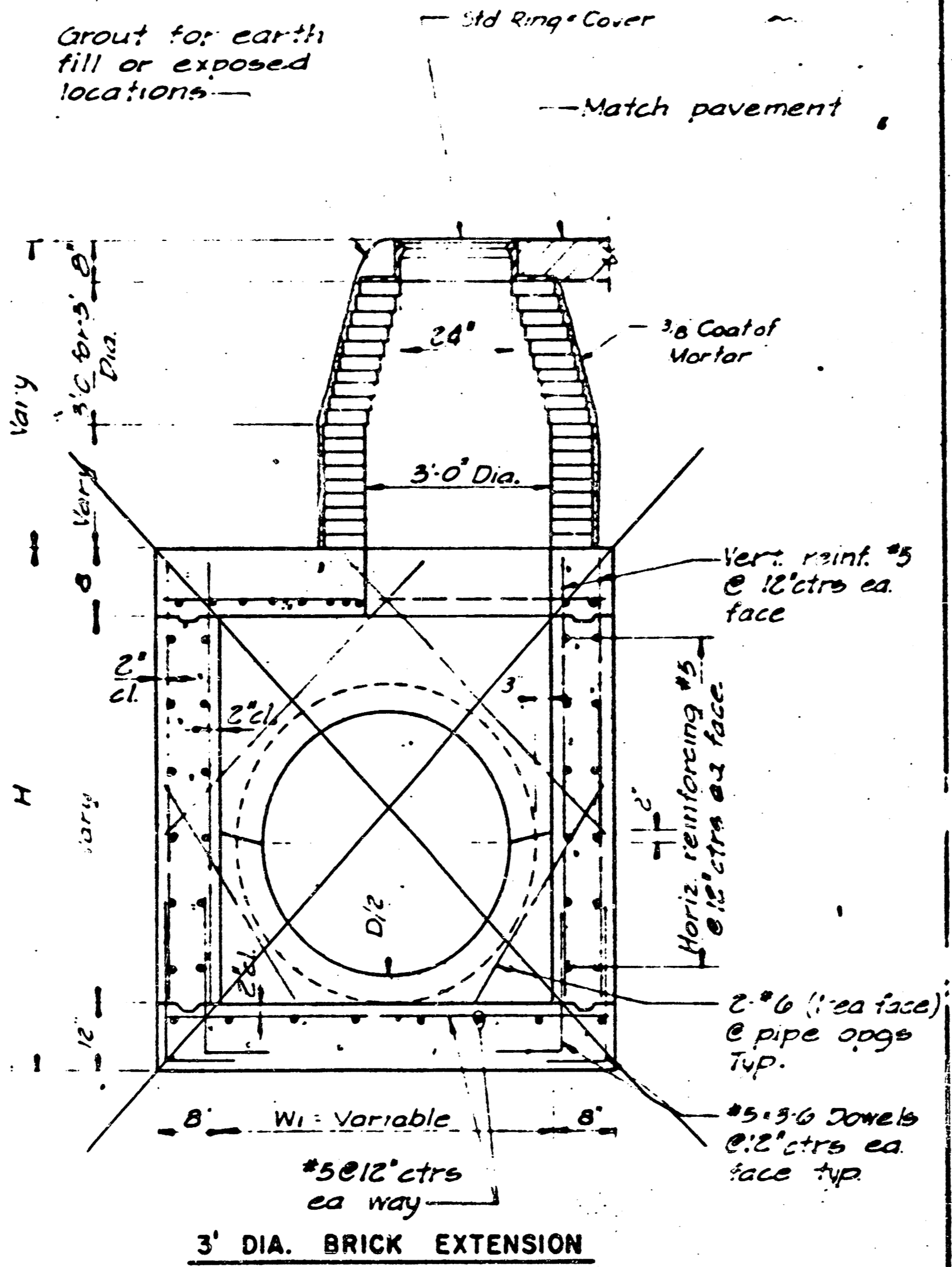
TOP SLAB REINFORCING



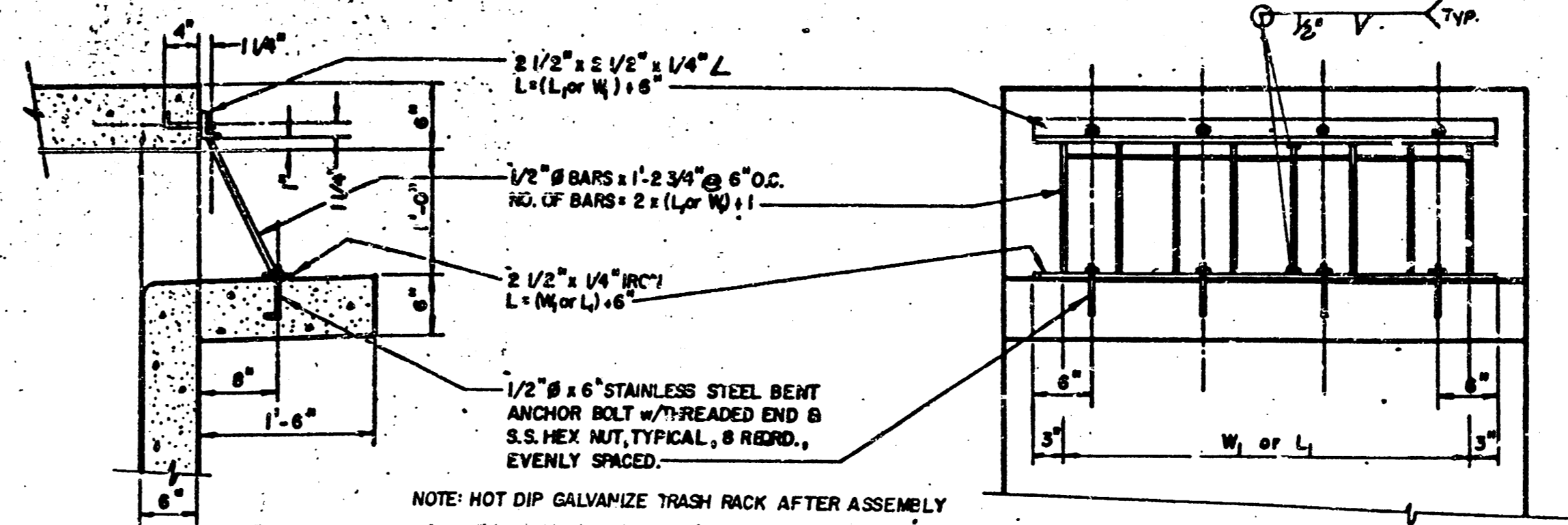
TOP SLAB REINFORCING



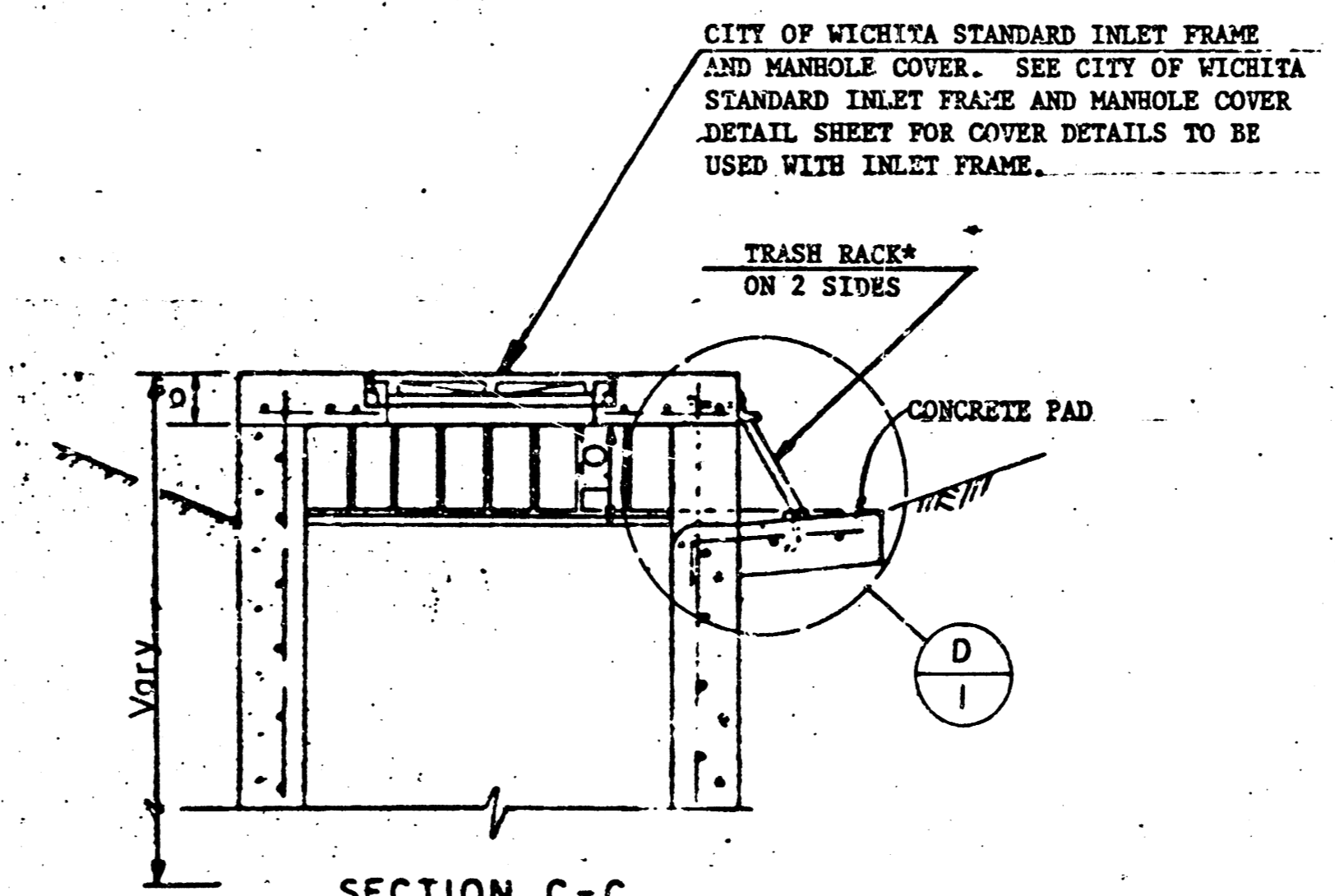
2" DIA. BRICK EXTENSION
Bottom same as shown on 3" Dia. Brick Extension



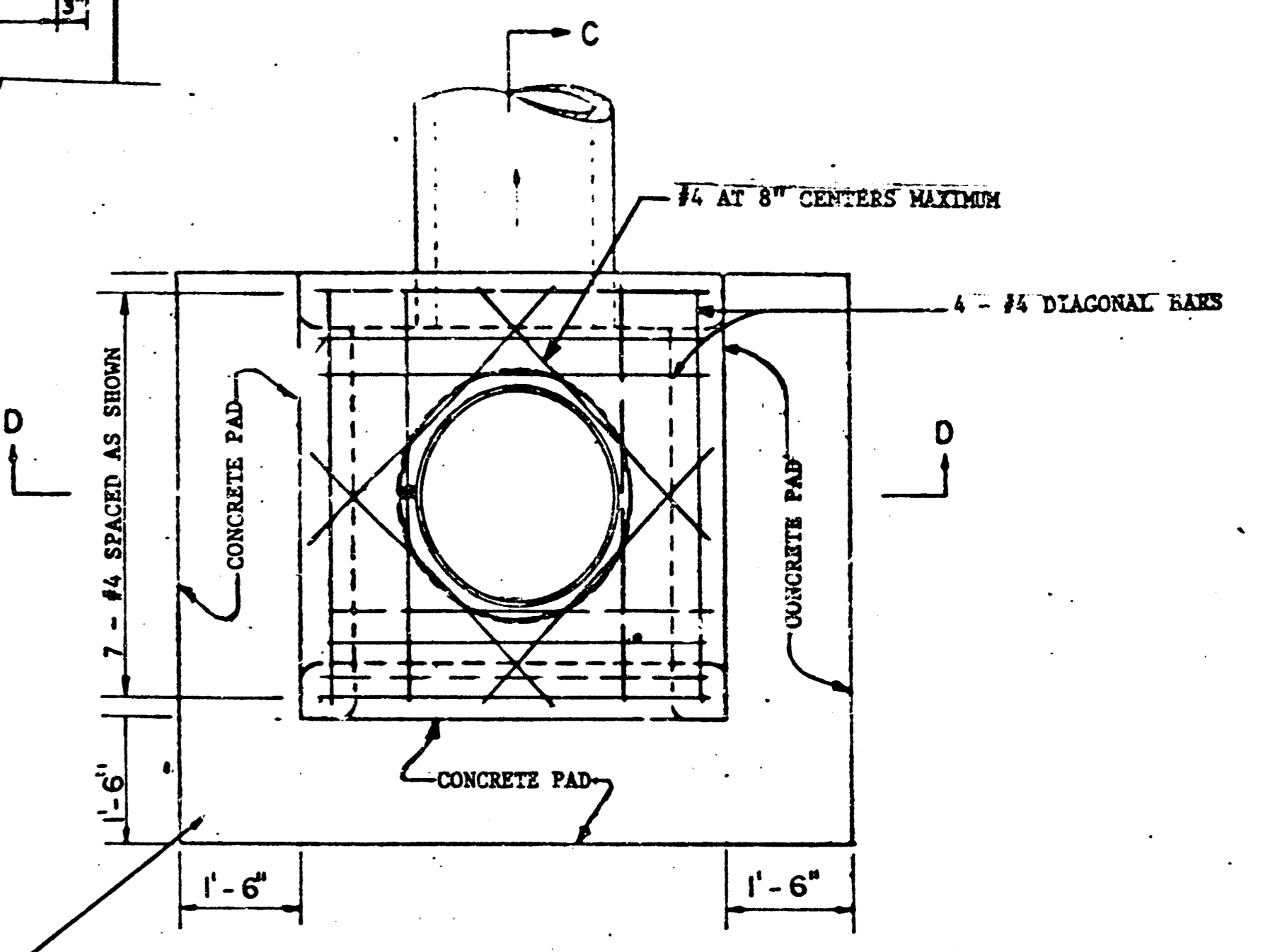
REINFORCED CONCRETE MANHOLE



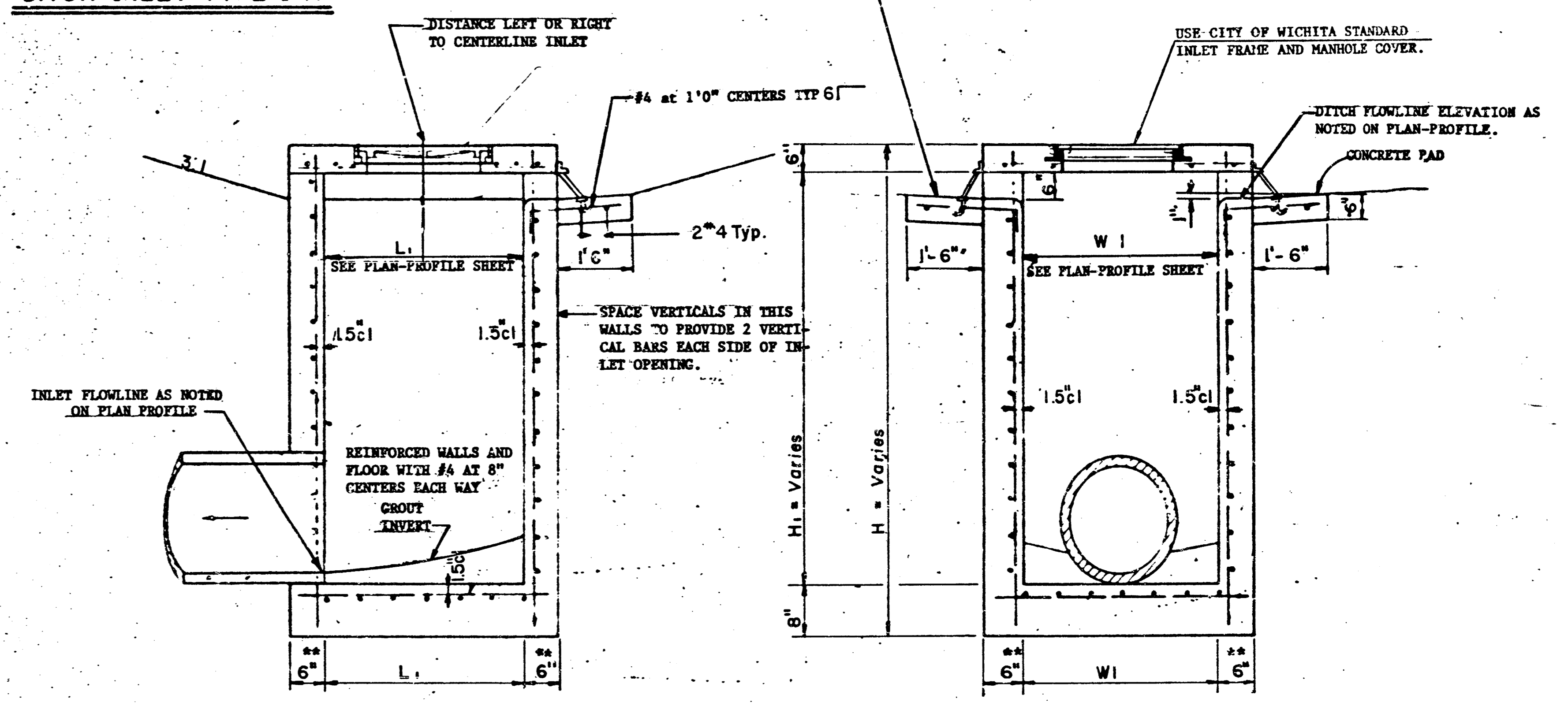
TRASH RACK DETAIL



SECTION C-C for DITCH INLET TYPE I-A



PLAN



SECTION C-C INLET-I

SECTION D-D

DITCH INLET TYPE I

** WHERE DIMENSION "H" IS GREATER THAN 6', USE 8" WALL THICKNESS.

| | | |
|--|--|--|
| | DETAIL DITCH INLET | Drawn by D.P.R. Checked by K.H.D. Date 10-84 App'd. |
| | REINFORCED CONCRETE MANHOLE | |
| | MID-KANSAS ENGINEERING CONSULTANTS PA 240 NORTH ROCK ROAD SUITE 130 WICHITA, KANSAS 67206 | |

682-6561
Sheet **12** of **14**

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8264 H

FINAL PLAT OF BEACON HILL 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 "BEACON HILL", 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 within the northwest quarter and the northeast quarter of Section 1, Township 27 south, Range 1 east of the 6th P.M., more particularly described as follows:

Commencing at the northwest corner of said northwest quarter; thence along the north line of said northwest quarter, bearing N 89° 16' 22" E, 991.14 feet; thence S 0° 43' 38" E, 40.00 feet to the point of beginning; thence N 89° 16' 22" E, 676.64 feet parallel and 40.00 feet south of the north line of said northwest quarter; thence S 0° 43' 38" E, 80.00 feet; thence S 13° 18' 42" W, 124.92 feet to a point on a curve to the right having a central angle of 13° 57' 40", a radius of 211.00 feet, a long chord of 51.28 feet bearing S 20° 17' 32" W; thence along said curve a distance of 51.41 feet to a point on a curve to the left having a central angle of 29° 55' 36", a radius of 371.08 feet, a long chord of 191.63 feet bearing S 12° 18' 34" W; thence along said curve a distance of 193.82 feet; thence S 2° 39' 14" E, 256.19 feet to a point on a curve to the left having a central angle of 38° 00' 00", a radius of 92.00 feet, a long chord of 59.90 feet bearing S 21° 39' 14" E; thence along said curve a distance of 61.02 feet; thence S 40° 39' 14" E, 319.97 feet to a point on a curve to the right having a central angle of 40° 00' 00", a radius of 276.00 feet, a long chord of 188.80 feet bearing S 20° 39' 14" E; thence along said curve 192.58 feet; thence S 0° 39' 14" E, 190.00 feet parallel with the east line of the west half of said northwest quarter to a point on a curve to the left having a central angle of 39° 13' 00", a radius of 150.00 feet, a long chord of 100.67 feet bearing S 20° 15' 44" E; thence along said curve a distance of 102.67 feet; thence S 39° 52' 14" E, 471.43 feet to a point on a curve to the left having a central angle of 51° 21' 40", a radius of 130.00 feet, a long chord of 86.67 feet bearing S 65° 33' 04" E; thence along said curve a distance of 89.64 feet; thence N 88° 46' 06" E, 319.56 feet parallel with the south line of the northwest quarter to a point on a curve to the right having a central angle of 45° 15' 24", a radius of 190.00 feet, a long chord of 146.21 feet bearing S 68° 36' 12" E; thence along said curve a distance of 150.00 feet; thence S 45° 58' 30" E, 52.78 feet to a point on a curve to the right having a central angle of 45° 15' 23", a radius of 190.00 feet, a long chord of 146.21 feet bearing S 23° 20' 49" E; thence along said curve a distance of 150.00 feet; thence S 0° 43' 07" E, 551.12 feet to a point on the south line of the northeast quarter of said Section 1; thence S 88° 51' 23" W along said south line 188.01 feet to the center of said Section 1; thence along the south line of said northwest quarter bearing S 88° 46' 06" W, 1538.68 feet; thence N 0° 39' 44" W, 385.01 feet; thence N 34° 20' 16" E, 372.63 feet to a point on the east line of the west half of said northwest quarter; thence N 0° 39' 14" W, 1170.66 feet along the east line of the west half of said northwest quarter; thence N 45° 39' 14" W, 470.00 feet; thence N 0° 43' 38" W, 455.00 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 2 day of April, 1986.

Kenneth H. Bengtson
Kenneth H. Bengtson, P.E.
Mid-Kansas Engineering Consultants, P.A.
3500 N. Rock Road, Building #800
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 platted into Lots, Blocks, Streets, and Reserves, the same to be known as "BEACON HILL", 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 public utilities and drainage, as indicated on the accompanying plat are hereby granted. Reserve "B" is platted for construction and maintenance of public utilities and drainage. Reserve "A" is platted for entrance monument and landscaping. All reserves shall be owned and maintained by the Homeowners Association. The 5.00 foot wall easement is granted for the purposes of construction and maintenance of a private wall. All abutters' rights of access to or from 29th St. North over and across the north line of Lot 42, Block 1, and the north line of Reserve "B" of "BEACON HILL" are hereby granted to the City of Wichita, Kansas. Reserve "B" is also platted for construction and maintenance of pedestrian ways.

CRITCHFIELD REAL ESTATE LIMITED PARTNERSHIP 1985,
Critchfield, Inc., general partner

By: Stephen N. Critchfield
Stephen N. Critchfield, President

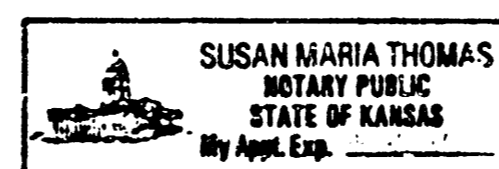
We, Stelbar Oil Corporation, mortgagees on the above described property, do hereby consent to the plat of "BEACON HILL".

STELBAR OIL CORPORATION
By: Maurice L. Holler, Vice Pres.
Maurice L. Holler, Vice Pres.

STATE OF KANSAS)
SEDGWICK COUNTY) ss:

Be it remembered that on this 1 day of April, 1986, before me a Notary Public in and for said State and County, came Pat Kettler, on behalf of Stelbar Oil Corporation, 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.

Pat Kettler, Notary Public.
My Appointment Expires: 10-20-87



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

Dated this 6th day of MARCH, 1986.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

William J. Goebel, Chairman
William J. Goebel

Michael E. Lindebak, Secretary
Michael E. Lindebak

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 13th day of MAY, 1986.

Tony Casado, Mayor
Tony Casado

Donald C. Bistick, City Clerk
Donald C. Bistick

Entered on transfer record this 24th day of June, 1986.

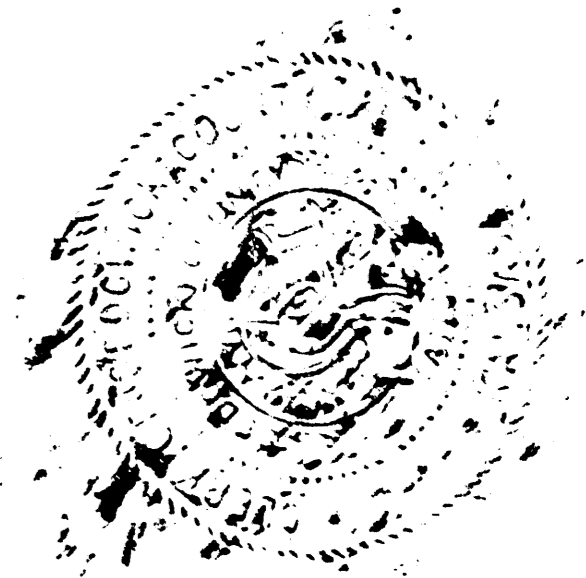
Don Wright, County Clerk
Don Wright

STATE OF KANSAS)
SEDGWICK COUNTY) ss:

This is to certify that this instrument was filed for record in the Register of Deeds office this 24th day of JUNE, 1986.

Pat Kettler, Register of Deeds
Pat Kettler

Ann Johns, Deputy
Ann Johns



A 7-37B

14 14

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