

Lateral 25, C.I.S. SANITARY SEWER IMPROVEMENTS

to serve

FAWNWOOD ADDITION & UNPLATTED TRACTS

CITY OF WICHITA, KANSAS

Michael E. Lindelof, P.E. City Engineer

Project Number

468-83174

O.C.A. Number

743860

GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

Cox Communications	262-0661
K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	383-8600
Peoples Gas Company	942-8350
Southwestern Bell Telephone Company	1-800-344-7233
City of Wichita Water Dept.	268-4908
City of Wichita Traffic Engineering	269-4446

- 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. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will 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 in accordance with state laws.

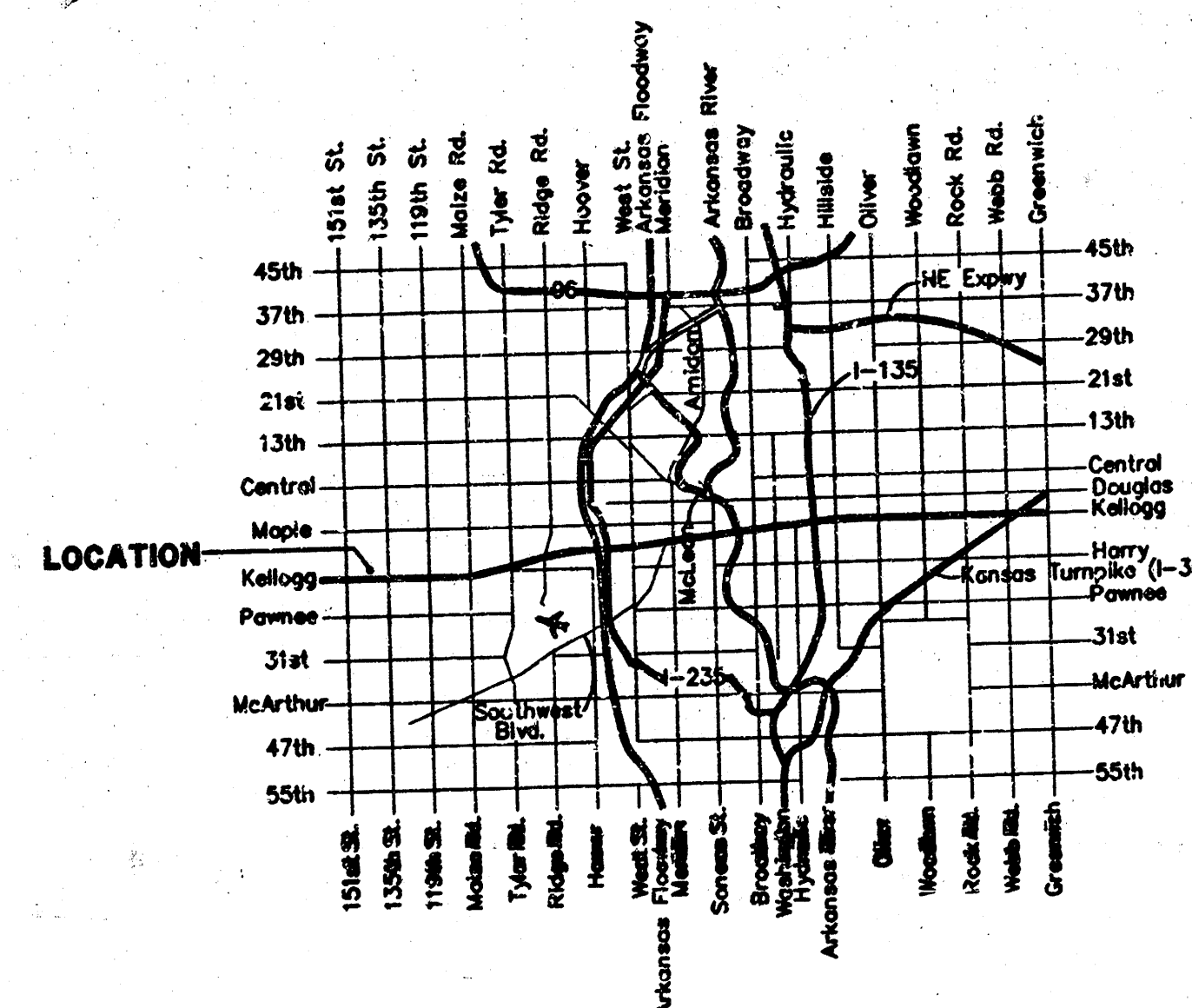
Sheet Index

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Line 1 & Line 1A	2
Shallow Manhole Detail	3
Ring & Cover Detail	4
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Benchmark

TOP OF 1" IRON, 12" DEEP,
W/4 COR., SEC. 26,
TWP. 27-S, R-2-W.
ELEV. = 209.13

Booked
P-168
4-26-01
Per R/2n
RPL



BENCHMARK:
TOP OF 1" IRON, 12" DEEP,
W1/4 COR. SEC. 26,
TWP. 27-S, R-2-W.
ELEV. = 209.13

Sta. 0+00, Begin Line 1
Verify Depth and Location
of Existing 8" Pipe Prior to
Construction.
Const. Std. Shallow Manhole
Over Existing 8" Pipe.
Top Elev. = 200.00

Remove Existing Manhole and
10 L.F. 8" Pipe North.
Cap End and Abandon in Place
40 L.F. 4" Stub West.
Cost to be Included in Bid Item
"Site Clearing & Restoration"

Sta. 0+05.1 to Sta. 0+37.9
Install 32.8 L.F. Flowable Fill
Per City Specifications.
Fill to Elev. 197.50

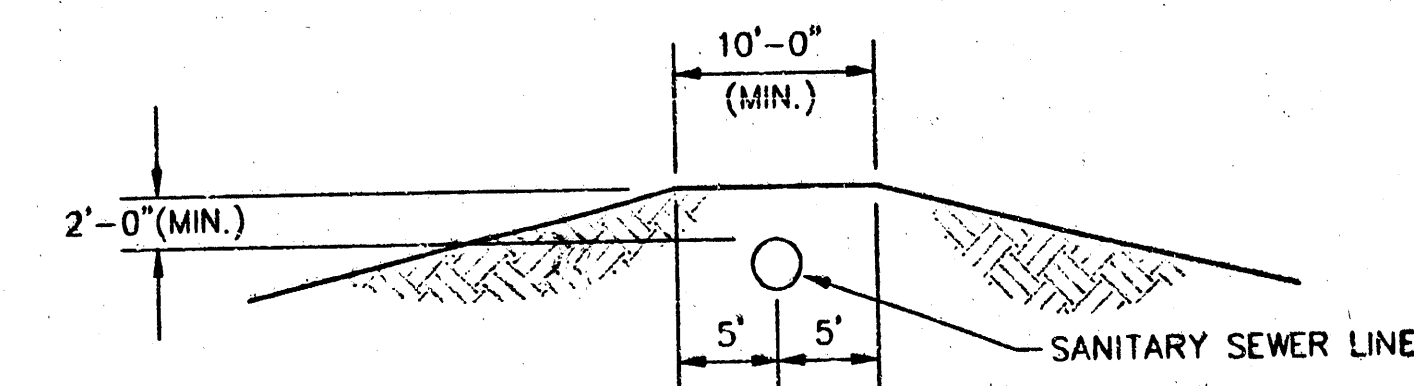
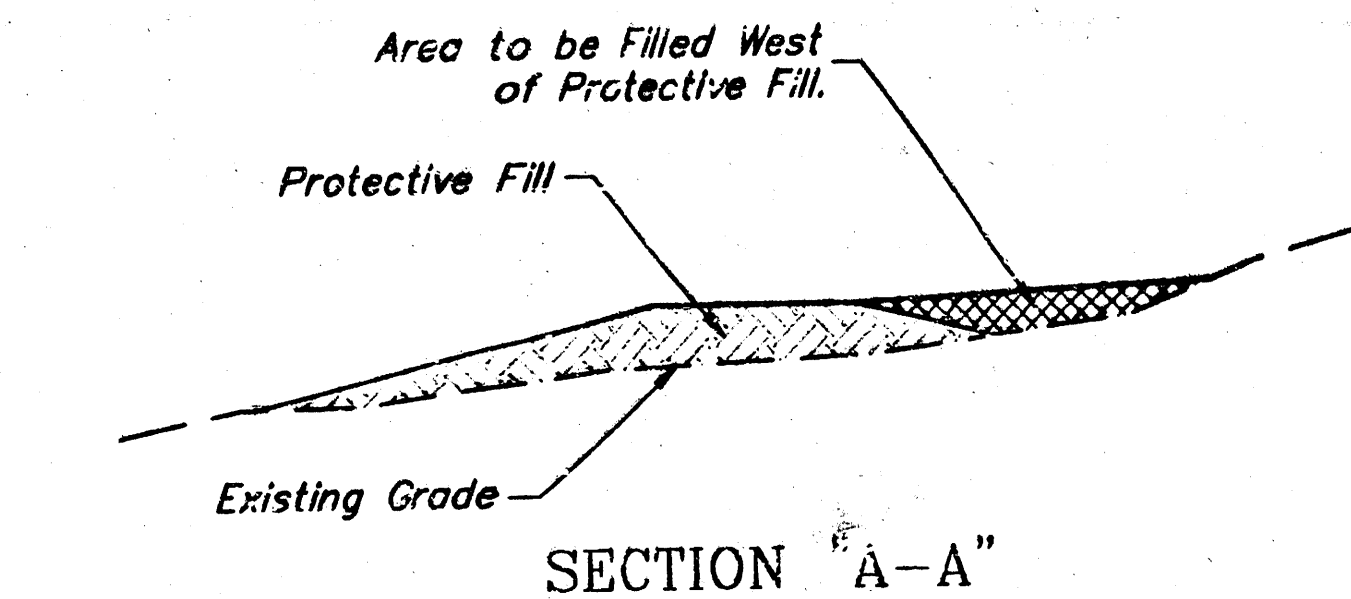
Sta. 0+98.5, End Line 1A
Const. Special Shallow
Manhole. 1-4" Stub(SE)
Top Elev. = 198.90

Sta. 3+72.9, Line 1 =
Sta. 0+00, Begin Line 1A
Const. Std. Shallow
Manhole. 1-4" Stub(S)
Top Elev. = 201.40

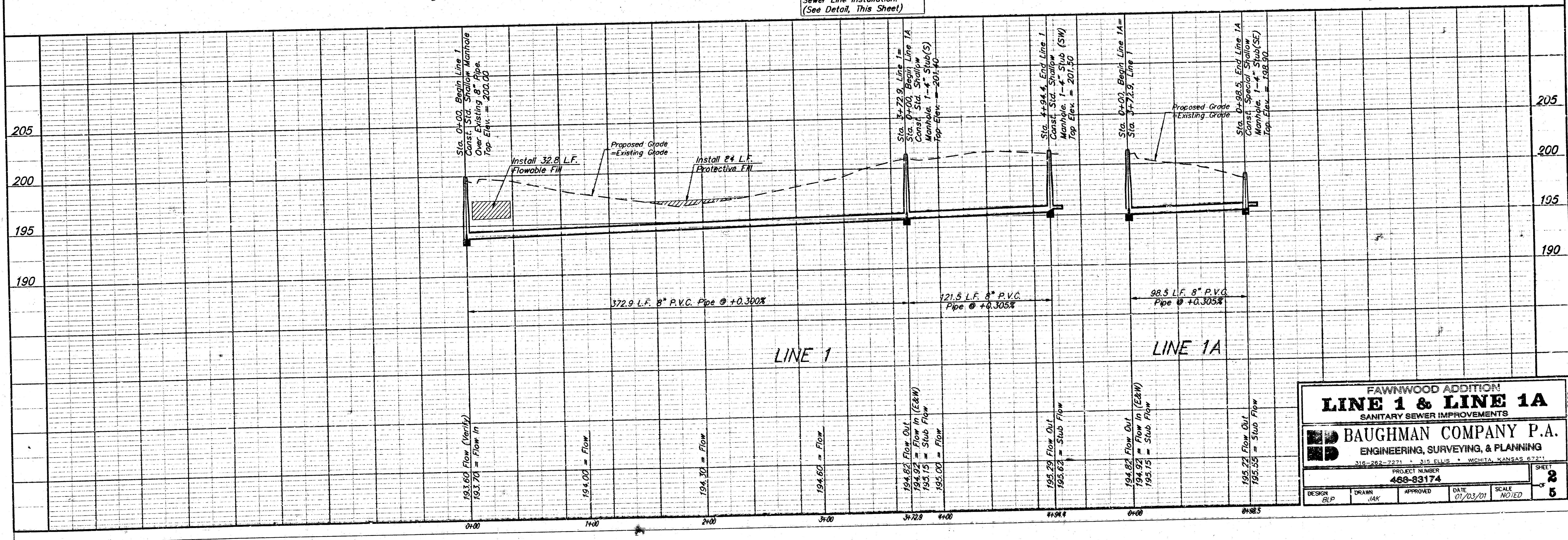
Sta. 4+94.4, End Line 1
Const. Std. Shallow
Manhole. 1-4" Stub (SW)
Top Elev. = 201.50

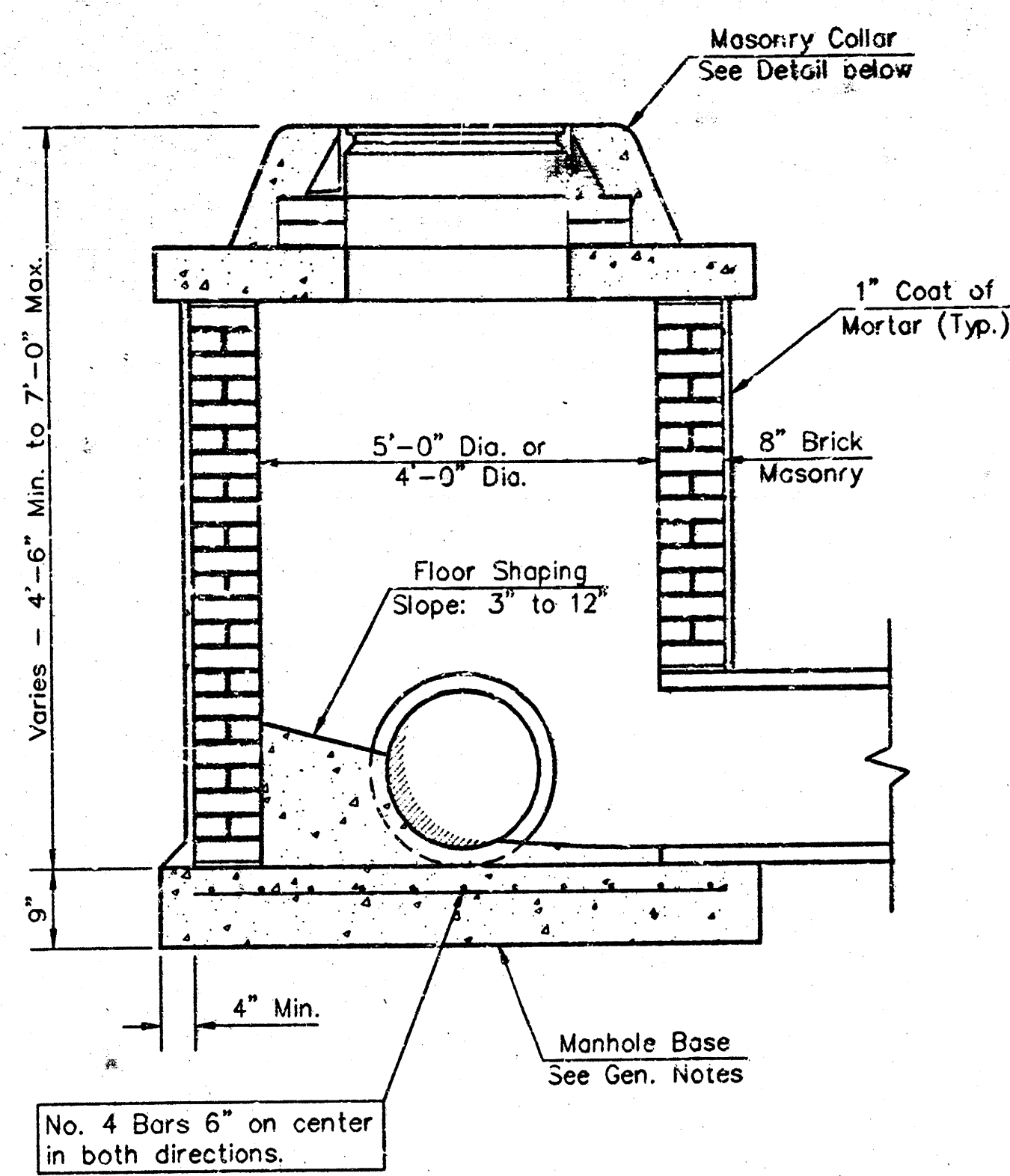
Note: Protective Fill to be
Placed and Compacted per
City Specs Prior to Sanitary
Sewer Line Installation.
(See Detail, This Sheet)

SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON

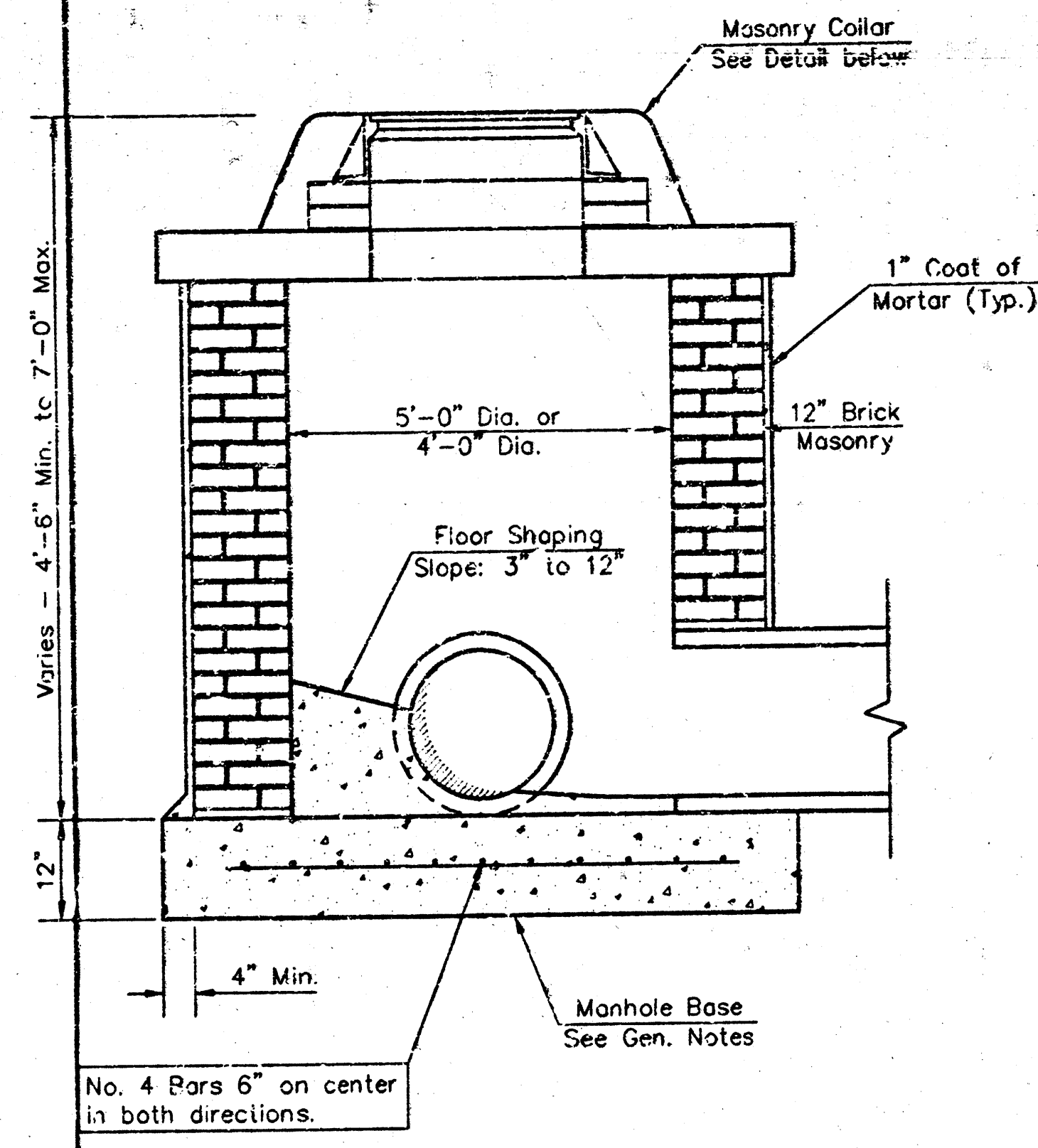


PROTECTIVE FILL DETAIL
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED
IN ALL INSTANCES WHERE COVER OVER THE PROP.
SANITARY SEWER LINE IS LESS THAN (2) FEET.
(COST SUBSIDIARY TO PIPE INSTALLATION)

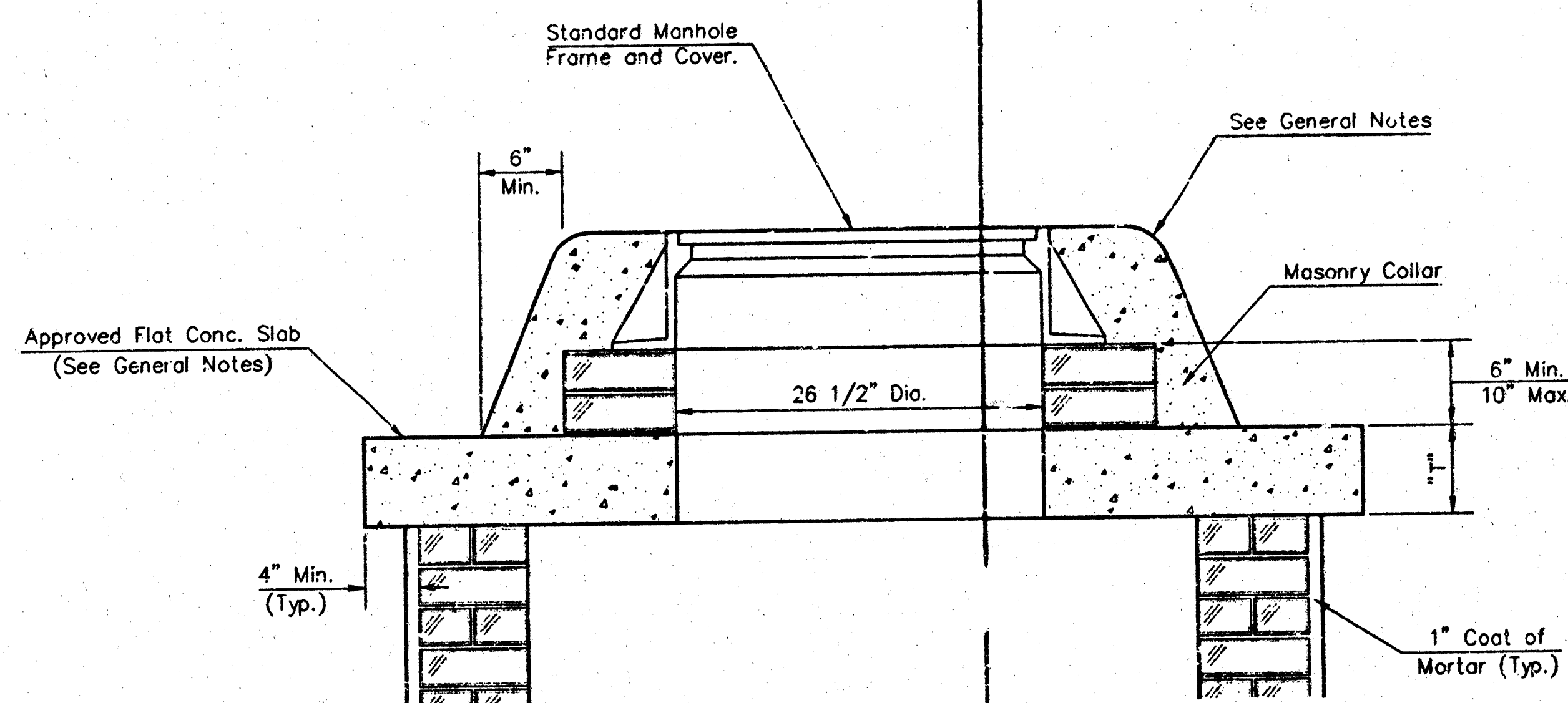




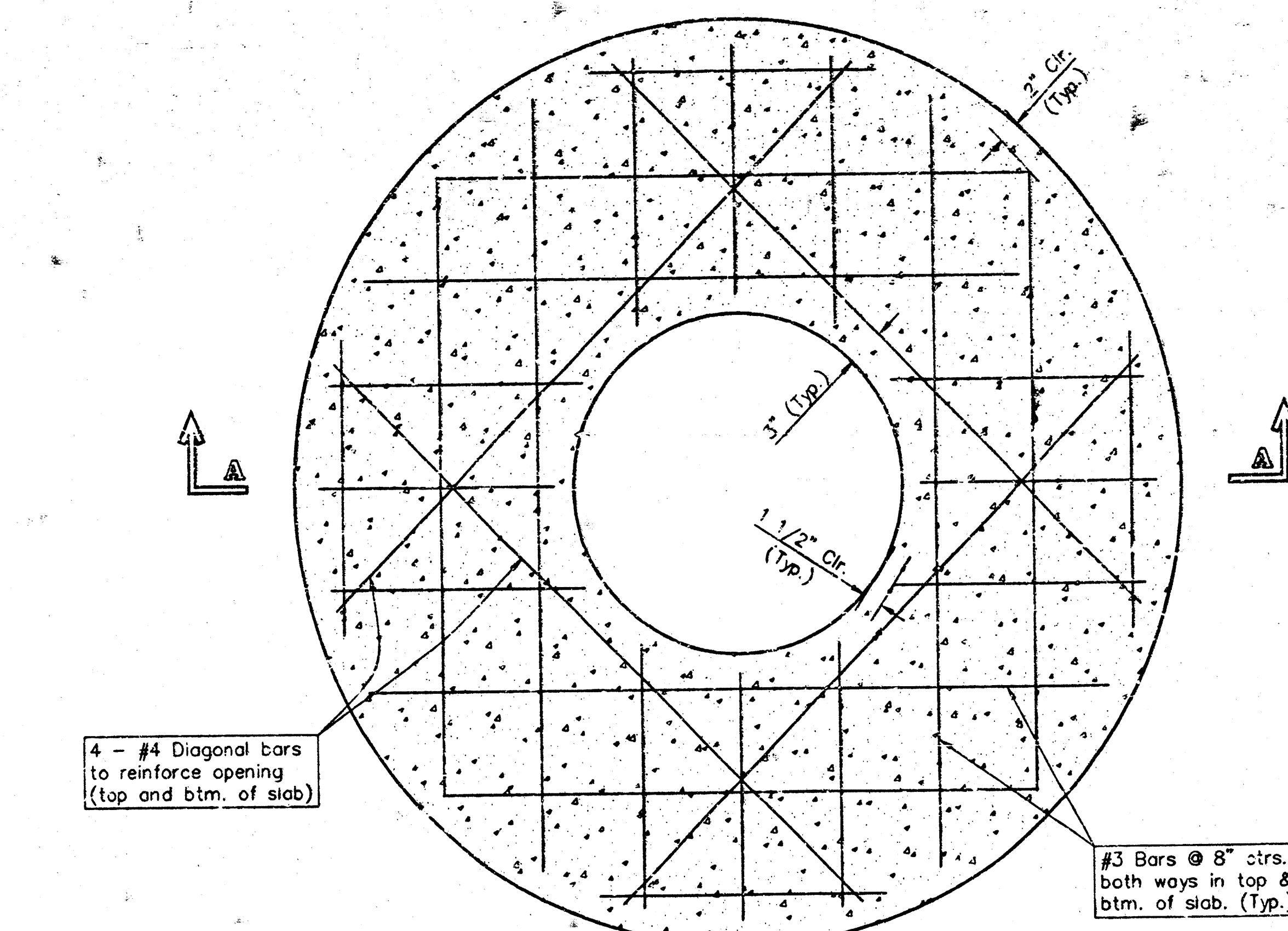
SHALLOW TYPE "A" MANHOLE



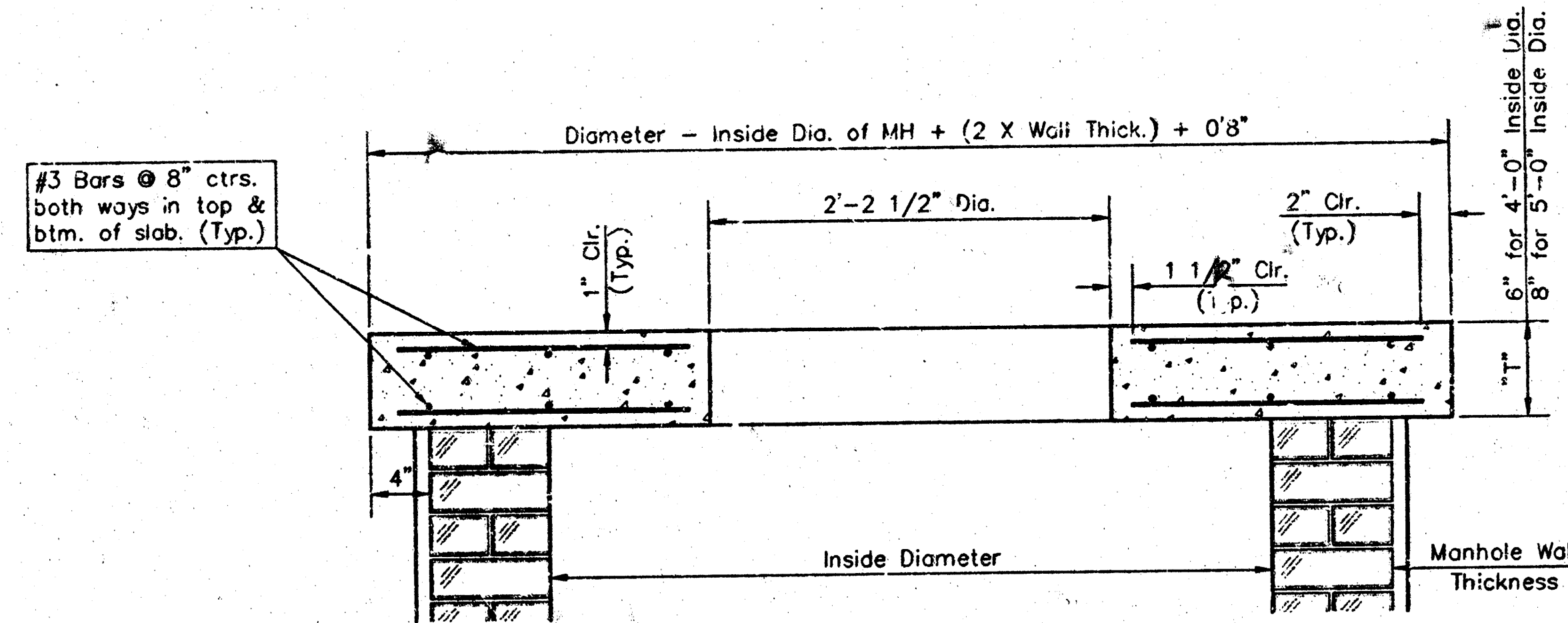
SHALLOW TYPE "B" MANHOLE



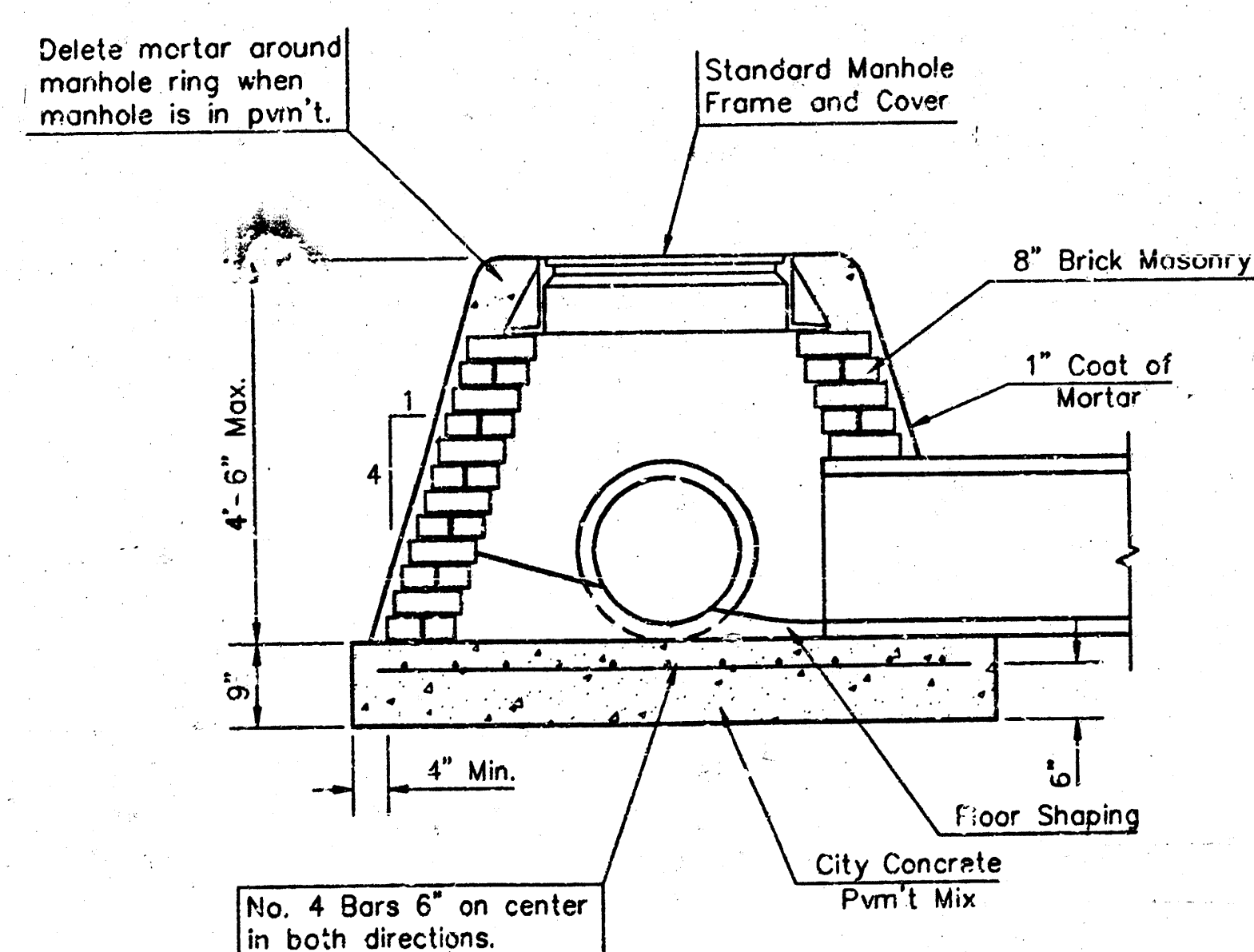
MASONRY COLLAR DETAIL



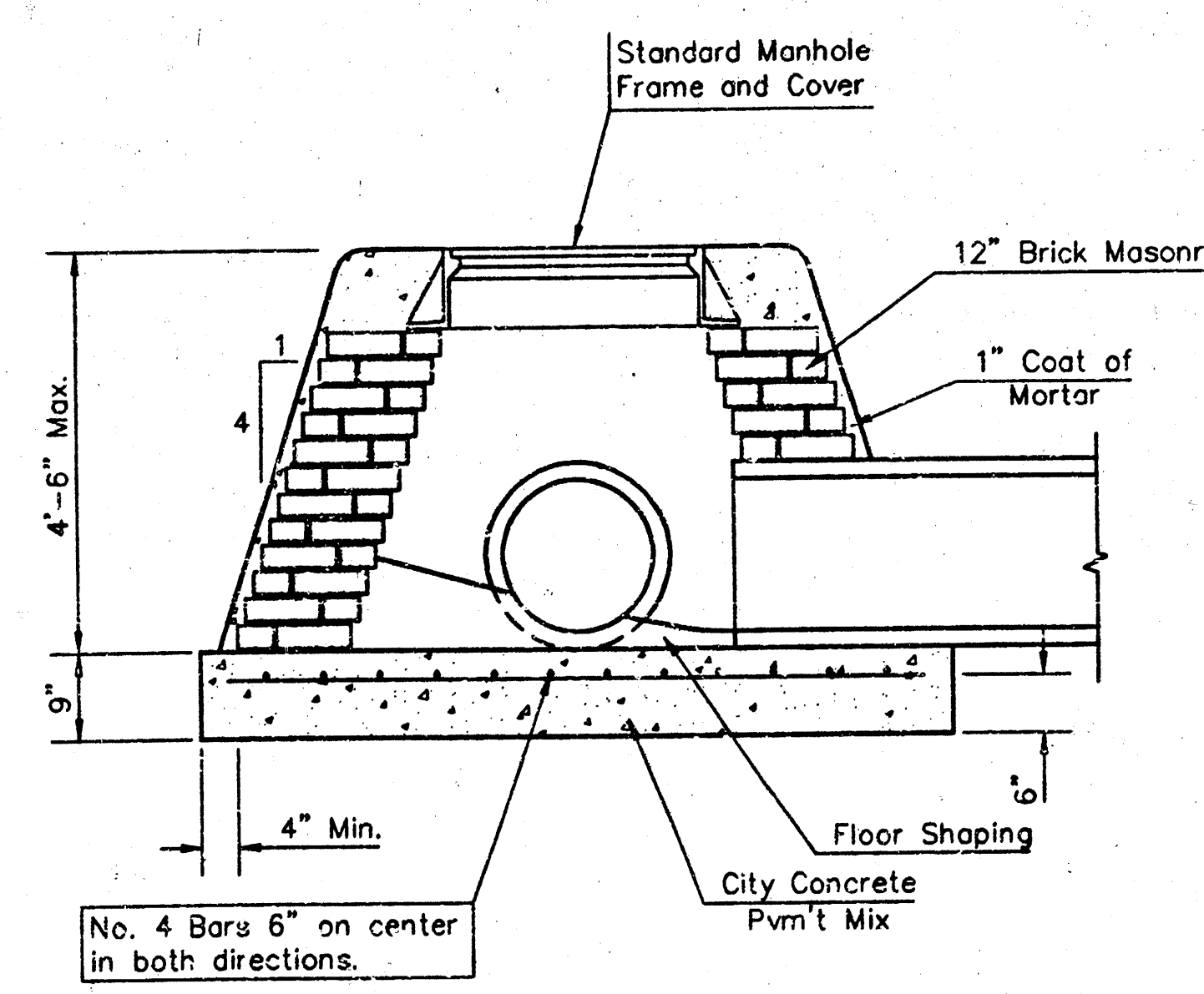
PLAN



SECTION A-A
FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

GENERAL NOTES

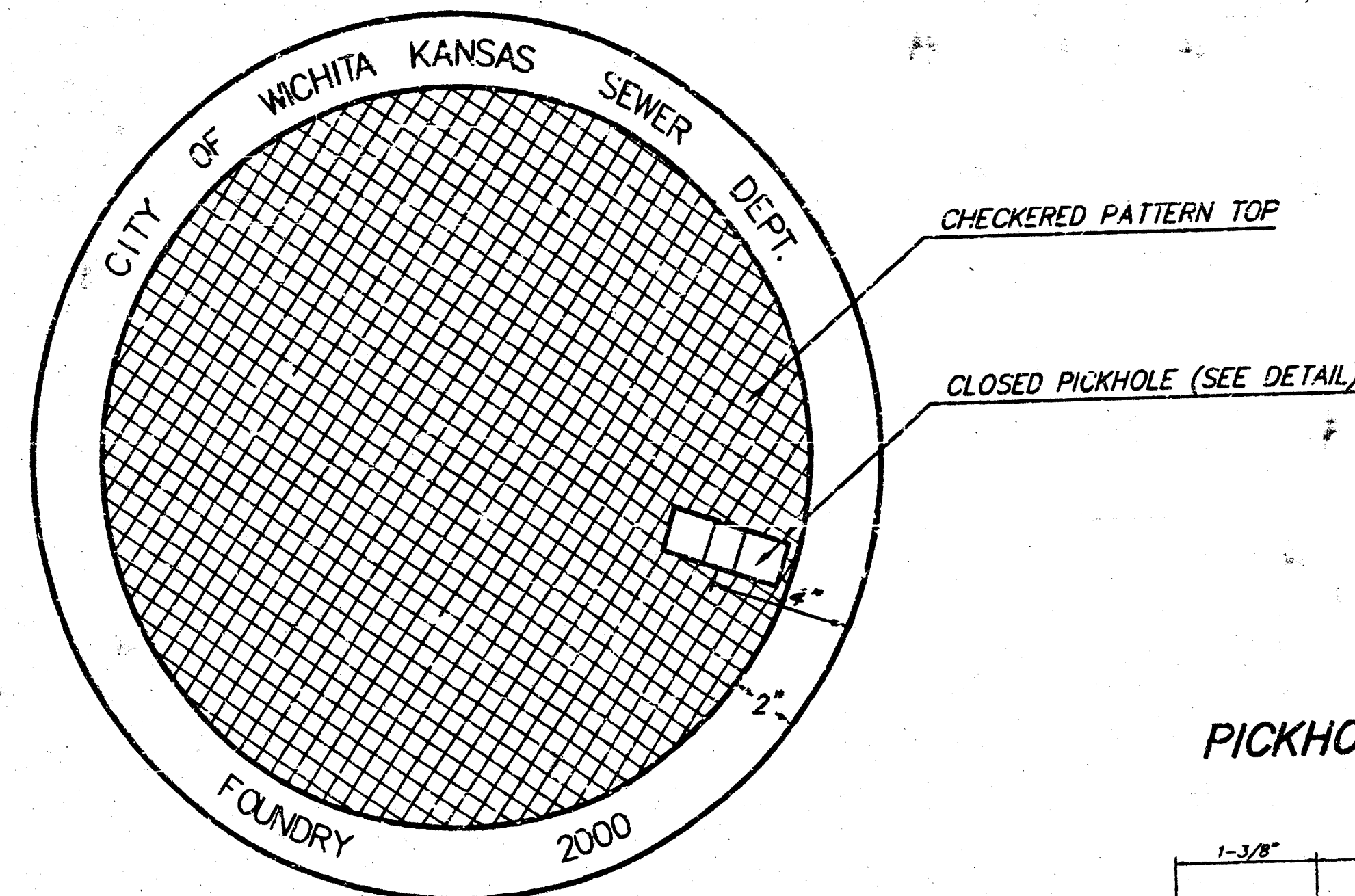
- Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining 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 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.
- 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 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.
- All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

CITY OF WICHITA, KANSAS			
Std. Manhole Detail			
TYPE "A" AND TYPE "B"			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
315-262-7271 • 315 ELIUS • WICHITA, KANSAS 67201			
PROJECT NUMBER			
488-63174			
DESIGN	DRAWN	APPROVED	SHEET
C.O.W.	Staff	01/03/01	3
SCALE			5
NONE			

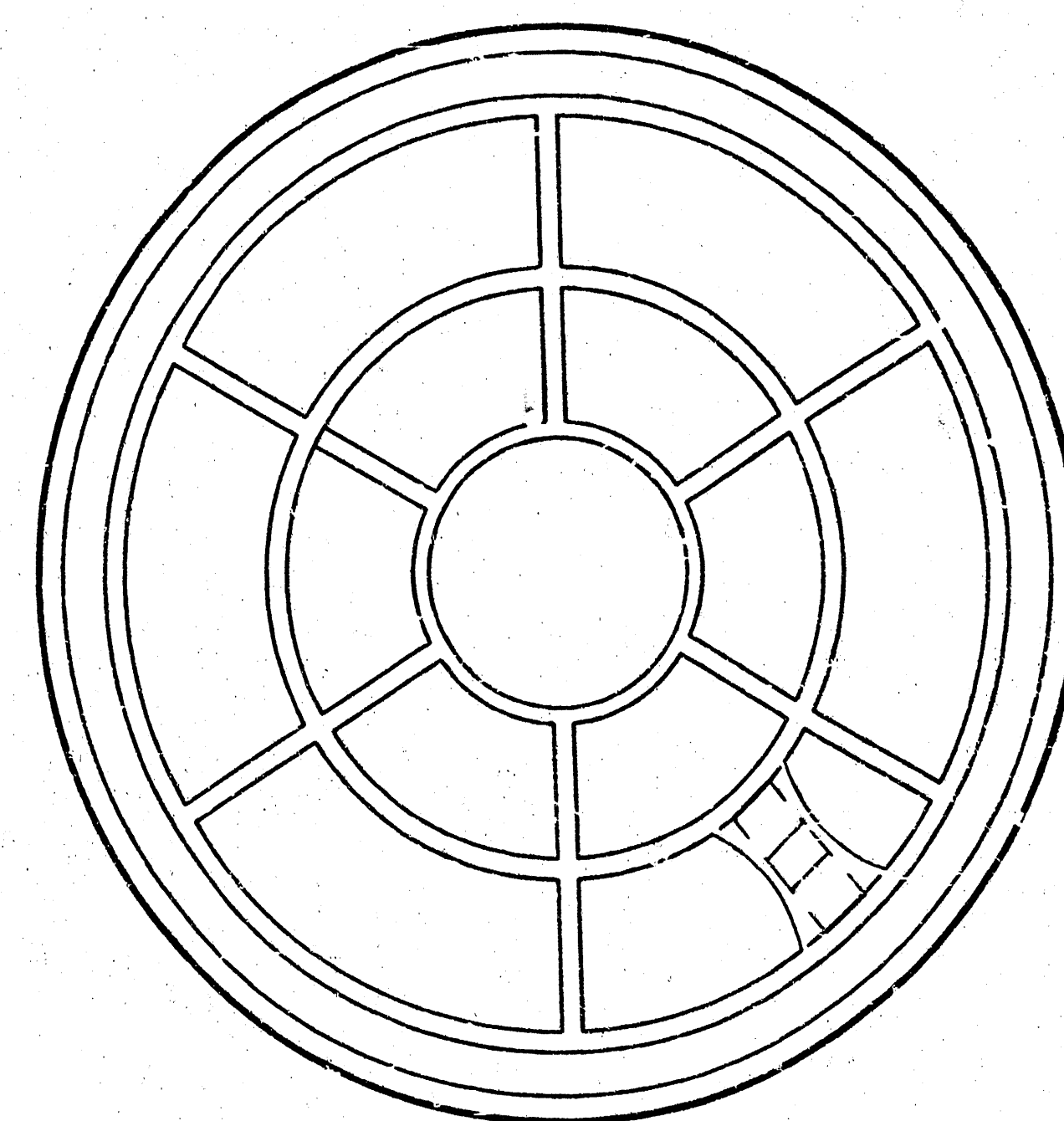
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

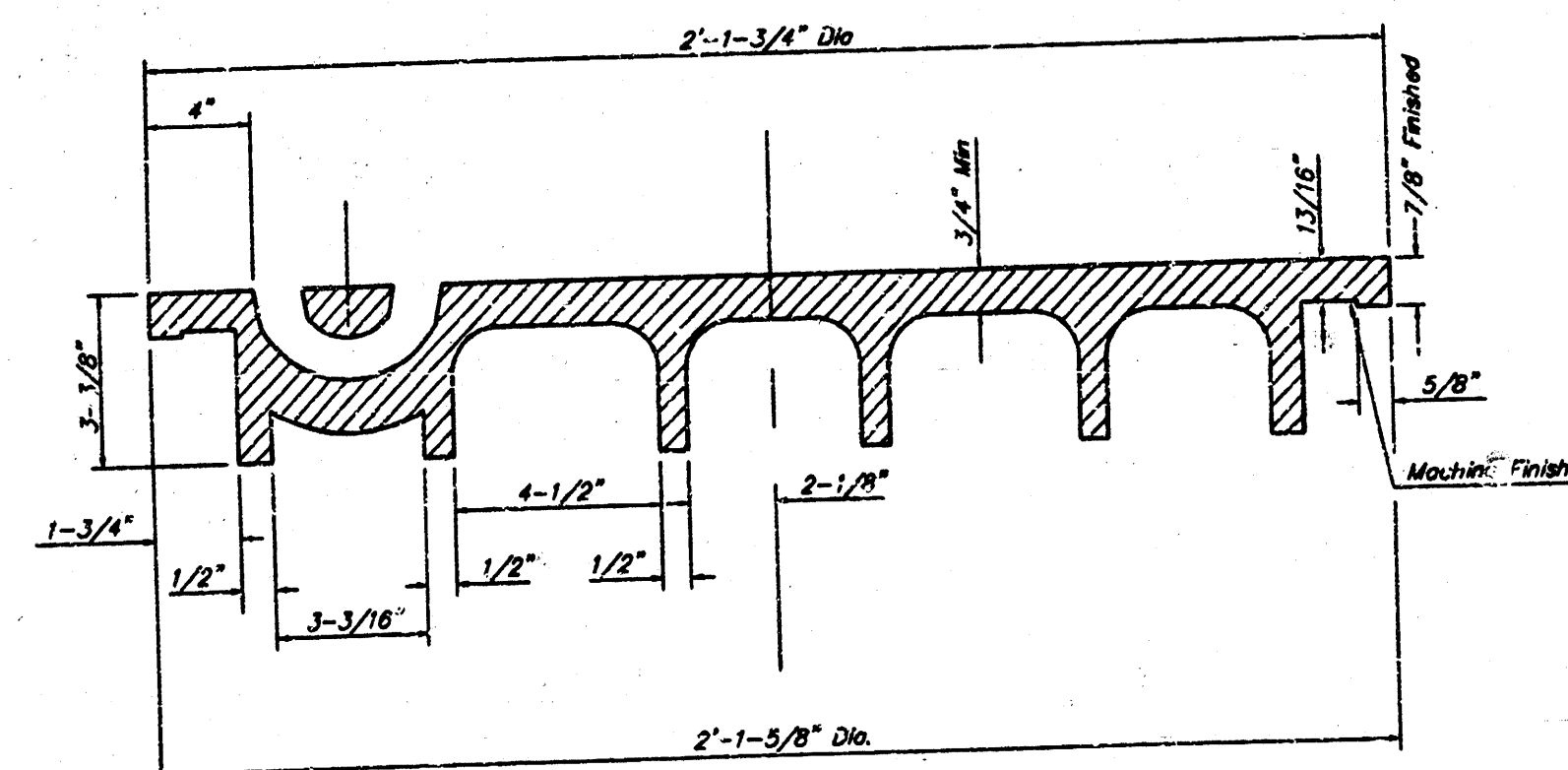
MANHOLE COVER
Weight = 180 Lbs.



TOP VIEW

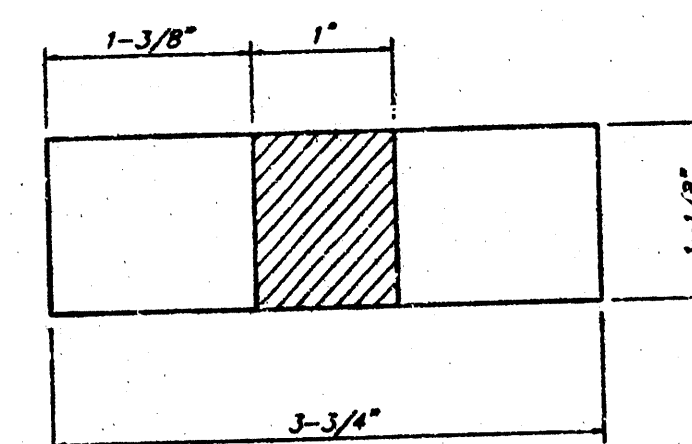


BOTTOM VIEW

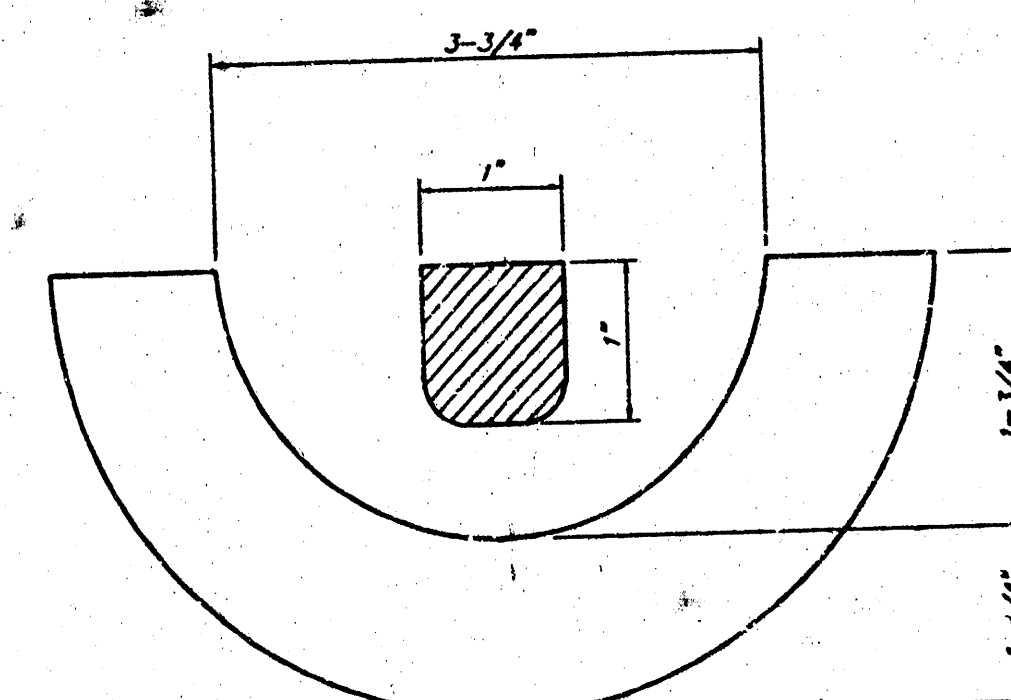


SECTION VIEW

PICKHOLE DETAIL

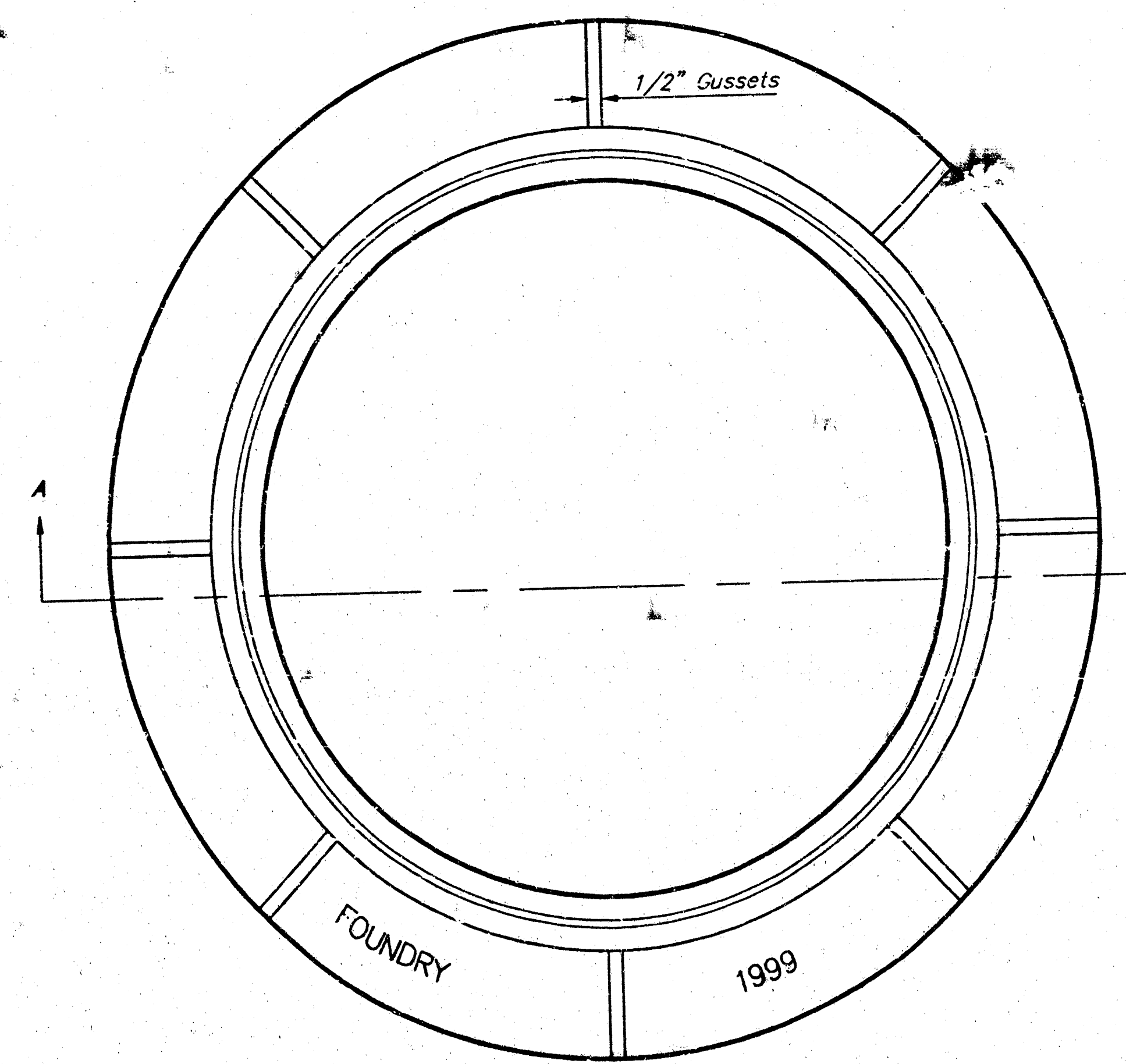


TOP VIEW

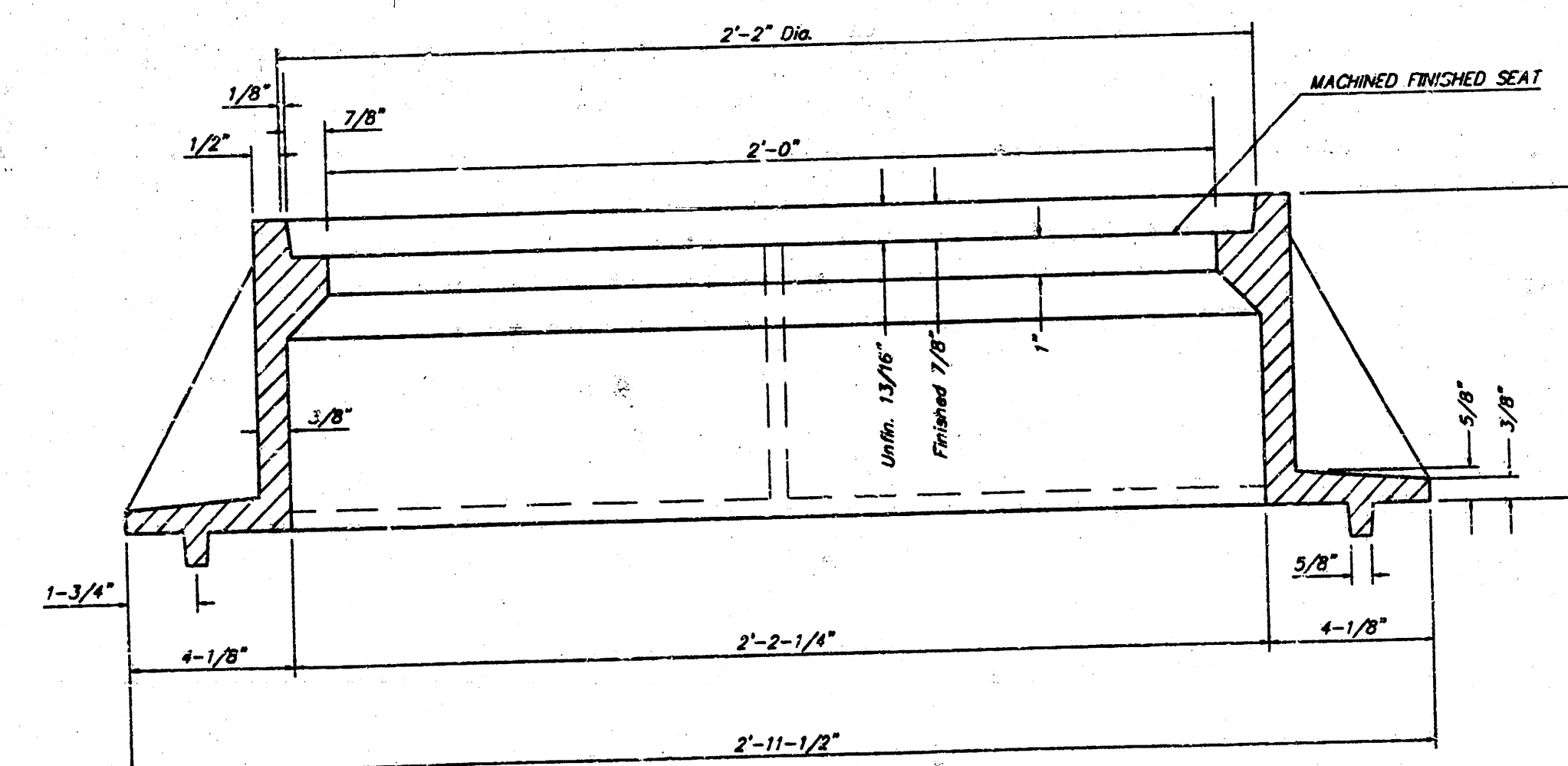


SECTION VIEW

MANHOLE FRAME
Weight = 145 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

MANHOLE FRAME AND COVER DETAIL					
ADOPTED AS STANDARD DESIGN BY					
CITY OF WICHITA, KANSAS					
BAUGHMAN COMPANY P.A.					
ENGINEERING, SURVEYING, & PLANNING					
316-262-2271 • 316 ELLIS • WICHITA, KANSAS 67211					
PROJECT NUMBER					
456-83174					
DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
STAFF	STAFF		01/03/01	NONE	4 OF 5

G-2

7-16

L41-2

FAWNWOOD ADDITION

TO
SEDGWICK COUNTY, KANSAS
LOTS 1, 2, 3 BLOCK 1

KNOW ALL MEN BY THESE PRESENTS THAT WE FISHER CONSTRUCTION DEVELOPMENT COMPANY INC. ALL FAWNWOOD INC. HAVE CAUSED THE LAND DESCRIBED IN THE ENGINEER'S CERTIFICATE TO BE PLATTED INTO A BLOCK TO BE KNOWN AS "FAWNWOOD ADDITION" TO SEDGWICK COUNTY, KANSAS.

THE STREETS, AS SHOWN ON THE PLAT, ARE HEREBY DEDICATED TO AND FOR THE USE OF THE PUBLIC. RESERVE 'N' FOR DRAINAGE PLANTING. THE EASEMENTS, AS SHOWN ON THE PLAT, ARE HEREBY DEDICATED TO AND FOR THE USE OF THE PUBLIC UTILITIES AS SHOWN FOR CONSTRUCTION AND MAINTENANCE PURPOSES.

STATE OF KANSAS, COUNTY OF SEDGWICK, SS.
I, HOWARD A. FISHER, PROFESSIONAL ENGINEER, DO HEREBY CERTIFY THIS 23RD DAY OF DECEMBER, 1974, THAT I HAVE SURVEYED AND PLATTED "FAWNWOOD ADDITION" TO SEDGWICK COUNTY, KANSAS, LOTS 1, 2, 3 BLOCK 1, AND THAT THE ACCOMPANYING PLAT IS A TRUE AND CORRECT EXHIBIT OF A TRACT OF LAND LOCATED IN THE SOUTH WEST QUARTER (SW) OF SECTION 26, TOWNSHIP 27, SOUTH RANGE 2 WEST OF THE SIXTH (6TH) PRINCIPAL MERIDIAN IN SEDGWICK COUNTY, KANSAS.

DESCRIBED AS BEGINNING AT A POINT 1310 FEET EAST OF THE SOUTHWEST (SW) CORNER OF THE SOUTHWEST QUARTER (SW), SECTION TWENTY-SIX (26), TOWNSHIP TWENTY-SEVEN (27), SOUTH RANGE TWO (2) WEST OF THE SIXTH (6TH) PRINCIPAL MERIDIAN IN SEDGWICK COUNTY, KANSAS; THENCE NORTH AT AN ANGLE OF EIGHTY-NINE DEGREES TWENTY-FIVE MINUTES A DISTANCE OF 335.0 FEET; THENCE EAST PARALLEL TO SOUTH LINE OF SAID SECTION 586.0 FEET; THENCE SOUTH 335 FEET TO THE SOUTH LINE OF SAID SECTION; THENCE WEST 586 FEET TO POINT OF BEGINNING, EXCEPT FOR U.S. HIGHWAY 54 RIGHT OF WAY.

STATE OF KANSAS, COUNTY OF SEDGWICK, SS.
BE IT REMEMBERED THAT ON THIS 23rd DAY OF December 1974, BEFORE ME, A NOTARY PUBLIC IN AND TO WHOM PERSONALLY KNOWN TO ME THE SAME PERSON WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME, AS THE ACT AND DEED OF SAID PERSON, IN TESTIMONY WHEREOF I HAVE SET MY HAND AND AFFIXED MY NOTARY SEAL THE DAY AND YEAR ABOVE WRITTEN.

EDWARD ROENBACH, Notary Public
My Commission Expires 1-1-75

THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON, IF ANY, ACCEPTED BY THE BOARD OF COMMISSIONERS OF THE CITY OF WICHITA, KANSAS.
DATED THIS 22 DAY OF APRIL, 1975.
CARRIE A. PETER, Mayor
DONALD C. GISCAR, City Clerk

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION
CHAIRMAN: Harland Kavan
SECRETARY: Robert A. Larkin
THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON, IF ANY, ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS, COUNTY OF SEDGWICK, STATE OF KANSAS.
DATED THIS 9th DAY OF May, 1975.
BOARD OF COUNTY COMMISSIONERS
CHAIRMAN: Carl E. Rusk
COMMISSIONERS: Earl B. Rusk, John H. Hage
COUNTY CLERK: George Pierce
STATE OF KANSAS, COUNTY OF SEDGWICK, S.S. #230984
THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE, AT 4:10 P. M., ON THIS 9th DAY OF May, 1975.
G. H. D. DICK, REGISTER OF DEEDS
G. H. D. DICK, DEPUTY

STATE OF KANSAS, COUNTY OF SEDGWICK, SS.
BE IT REMEMBERED THAT ON THIS 23rd DAY OF December 1974, BEFORE ME, A NOTARY PUBLIC IN AND TO WHOM PERSONALLY KNOWN TO ME THE SAME PERSON WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME, AS THE ACT AND DEED OF SAID PERSON, IN TESTIMONY WHEREOF I HAVE SET MY HAND AND AFFIXED MY NOTARY SEAL THE DAY AND YEAR ABOVE WRITTEN.

EDWARD ROENBACH, Notary Public
My Commission Expires 1-1-75

THE CITIZENS STATE BANK OF CHENEY, KANSAS
DONALD C. TOWNE, Vice President & Cashier
BE IT REMEMBERED THAT ON THIS 23rd DAY OF December 1974, BEFORE ME, A NOTARY PUBLIC IN AND TO WHOM PERSONALLY KNOWN TO ME THE SAME PERSON WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME, AS THE ACT AND DEED OF SAID PERSON, IN TESTIMONY WHEREOF I HAVE SET MY HAND AND AFFIXED MY NOTARY SEAL THE DAY AND YEAR ABOVE WRITTEN.

EDWARD ROENBACH, Notary Public
My Commission Expires 1-1-75

STATE OF KANSAS, COUNTY OF SEDGWICK, SS.
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EDWARD ROENBACH, Notary Public
My Commission Expires 1-1-75

F-147

G-2

7-16

PROTECTIVE COPY FILED 4/13/76

5/5

18-04-05-10