

Lat. 372, S.W.I.
SANITARY SEWER IMPROVEMENTS

to serve
**Stonebriar Addition
 Phase II**
 CITY OF WICHITA, KANSAS

Michael C. Lindelak, P.E. City Engineer

Project Number

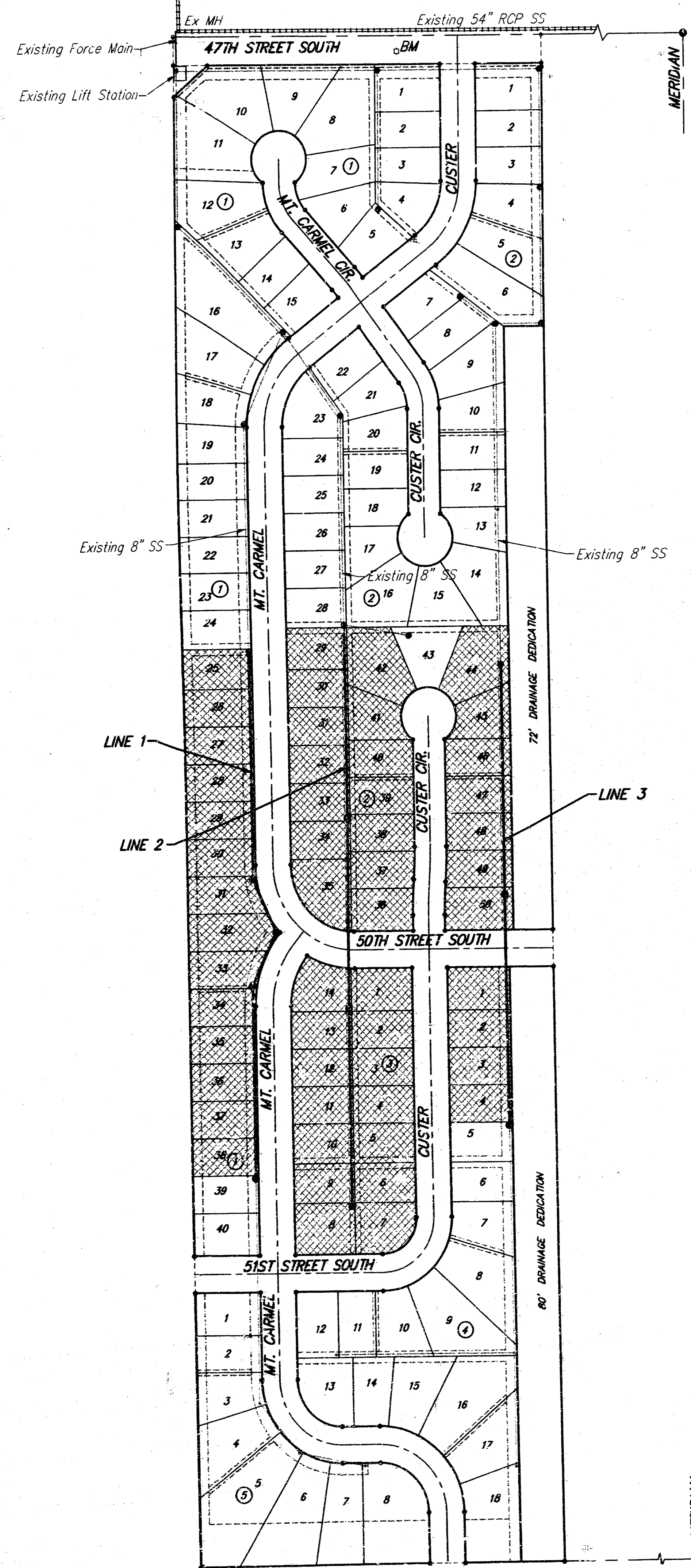
468-82640

Index Code:

748485

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:
 Multimedia Cablevision 262-0681
 K.P.L. Gas Service Company 383-8650
 Kansas Gas & Electric Company 383-8600
 Peoples Gas Company 942-8350
 Southwestern Bell Telephone Company 1-571-2611
 City of Wichita Water Dept. 268-4903
 City of Wichita Traffic Engineering 268-4446
- 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 protected 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.
- Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on the easement grading plans. All costs for grading shall be paid as lump sum for easement grading.
- All areas disturbed by construction operations shall be seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Prior to seeding, area shall be prepared per City specs.
- The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.
- All necessary borrow excavation for easement grading will be available on site.



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Easement Grading Plan	5
Standard Manhole Detail	6
Ring & Cover Detail	7
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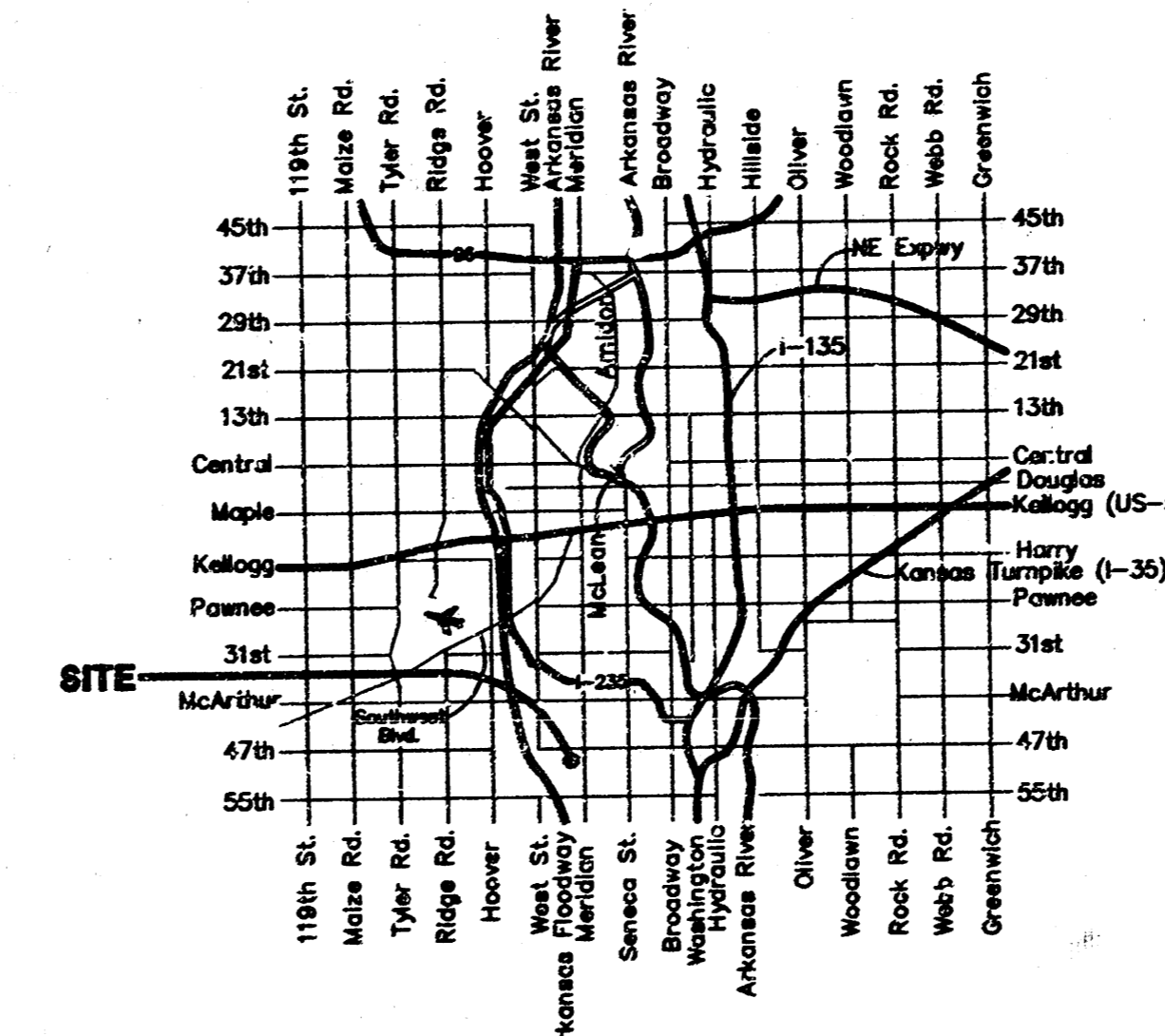
Benchmark

Railroad Spike in Power Pole
 Located 37' South and 402' East
 of the Northwest Corner of the
 NE 1/4, Section 24, TWP. 27-S,
 R-1-W.

Elevation = 92.98 City Datum

City of Wichita Disc Located
 44' North and 30' East of the
 Centerlines of 47th Street South
 and Meridian.

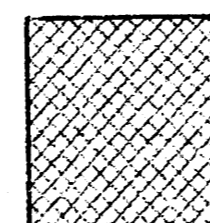
Elevation = 91.78 City Datum



Vicinity Map

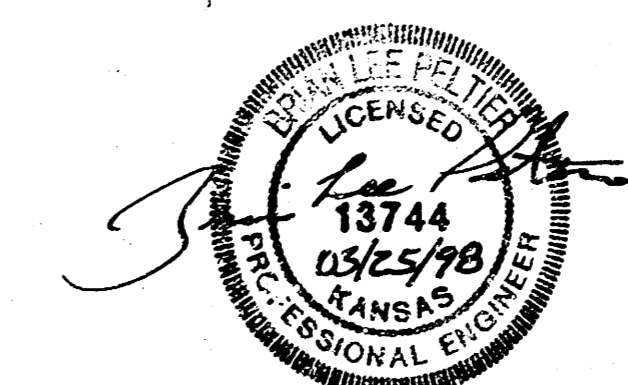
Scale: 1" = 150'

Benefit District



Approximate Easement Grading Quantities:
 (For Information Only)
 Excavation: 750 C.Y.
 Fill: 2322 C.Y.

Booked
 Per plan
 8/3/98
 P-25
 RDL



Benchmark:

Railroad Spike in Power Pole Located 27' South and 402' East of the Northwest Corner of the NE 1/4, Section 24, TWP. 27-S, R-1-W.

Elevation = 92.98 City Datum

City of Wichita Disc Located 44' North and 30' East of the Centerlines of 47th Street South and Meridian.

Elevation = 91.78 City Datum

SEWER SERVICE TABLE

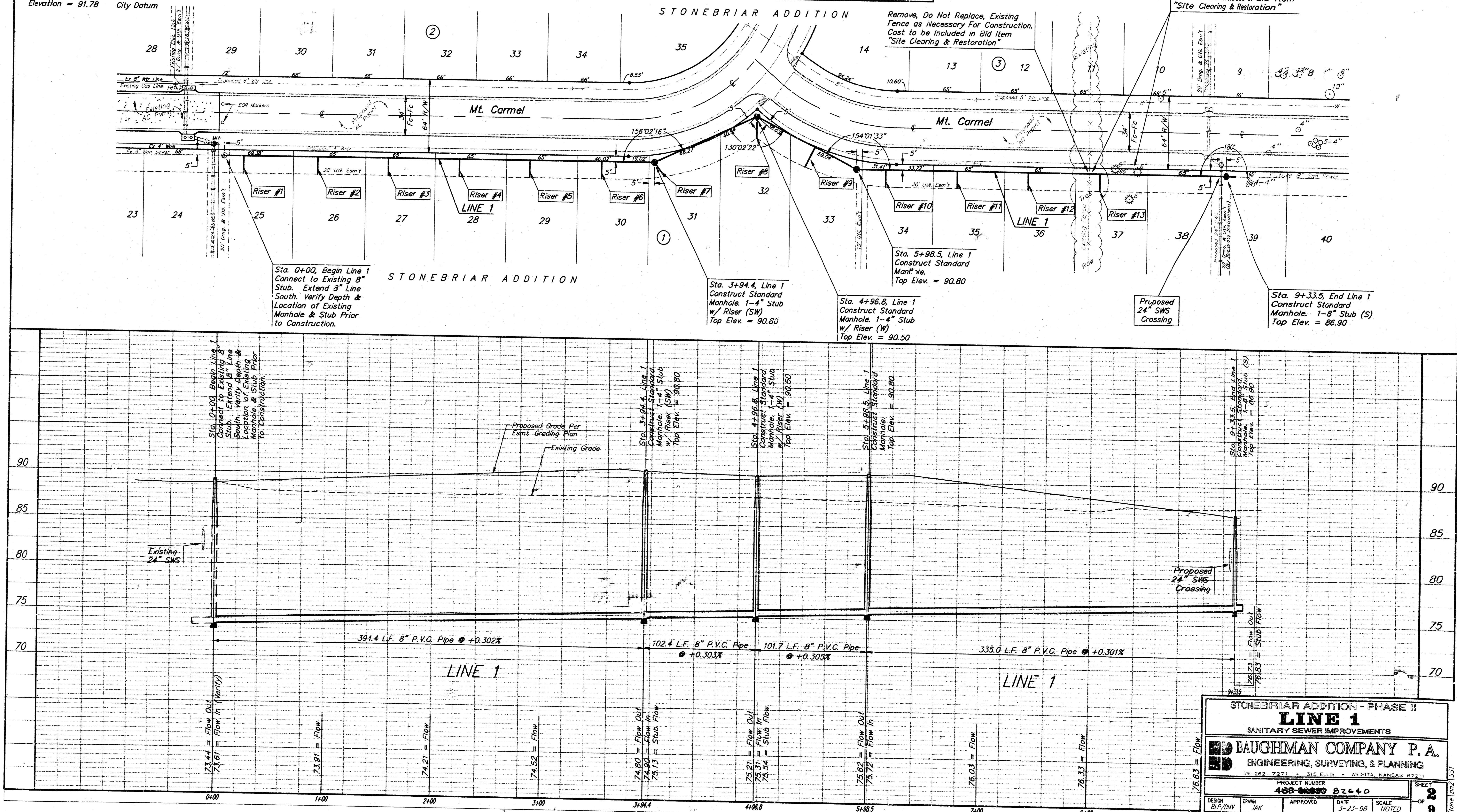
NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL HORIZONTAL
1	8" X 4" Tee Saddle	25	1	1	0+18/RL	11.5' 15'
2	8" X 4" Tee Saddle	26	1	1	0+86/RL	11.5' 15'
3	8" X 4" Tee Saddle	27	1	1	1+51/RL	11.5' 15'
4	8" X 4" Tee Saddle	28	1	1	2+16/RL	12' 15'
5	8" X 4" Tee Saddle	29	1	1	2+81/RL	12' 15'
6	8" X 4" Tee Saddle	30	1	1	3+46/RL	12' 15'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

SEWER SERVICE TABLE (Cont.)

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL HORIZONTAL
7	4" Stub	31	1	1	3+94.4/Pl.	11.5' 15'
8	4" Stub	32	1	1	4+96.8/RL	11' 18'
9	8" X 4" Tee Saddle	33	1	1	5+56/RL	11' 19'
10	8" X 4" Tee Saddle	34	1	1	6+25/RL	11' 15'
11	8" X 4" Tee Saddle	35	1	1	6+90/RL	10' 15'
12	8" X 4" Tee Saddle	36	1	1	7+55/RL	9' 15'
13	8" X 4" Tee Saddle	37	1	1	8+20/RL	8' 15'

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



STONEBRIAR ADDITION - PHASE II
LINE 1
 SANITARY SEWER IMPROVEMENTS
BAUGHMAN COMPANY P. A.
 ENGINEERING, SURVEYING, & PLANNING
 PROJECT NUMBER: 488-0000 82440
 SHEET: 2 OF 9
 DATE: 3-23-98
 SCALE: NOTED

Benchmark:
 Railroad Spike in Power Pole
 Located 27' South and 402' East
 of the Northwest Corner of the
 NE 1/4, Section 24, TWP. 27-S,
 R-1-W.

Elevation = 92.98 City Datum

City of Wichita Disc Located
 44' North and 30' East of the
 Centerlines of 47th Street South
 and Meridian.

Elevation = 91.78 City Datum

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
14	8" X 4" Tee Saddle	31	2	2	1+70/Rt.	8.5'	5'
15	8" X 4" Tee Saddle	40	2	2	2+30/Lt.	9.5'	15'
16	8" X 4" Tee Saddle	32	2	2	2+40/Rt.	9.5'	5'
17	8" X 4" Tee Saddle	39	2	2	2+87/Lt.	10'	15'
18	8" X 4" Tee Saddle	33	2	2	2+97/Rt.	10'	5'
19	4" Stub	38	2	2	3+36.0/Lt.	10.5'	15'

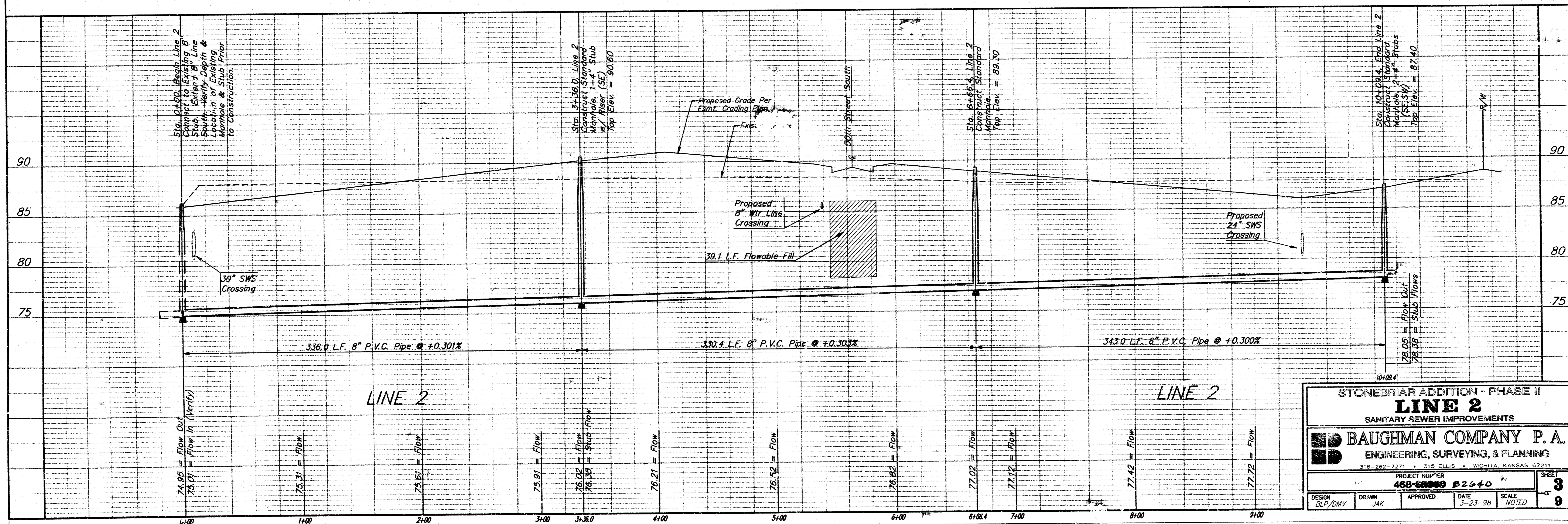
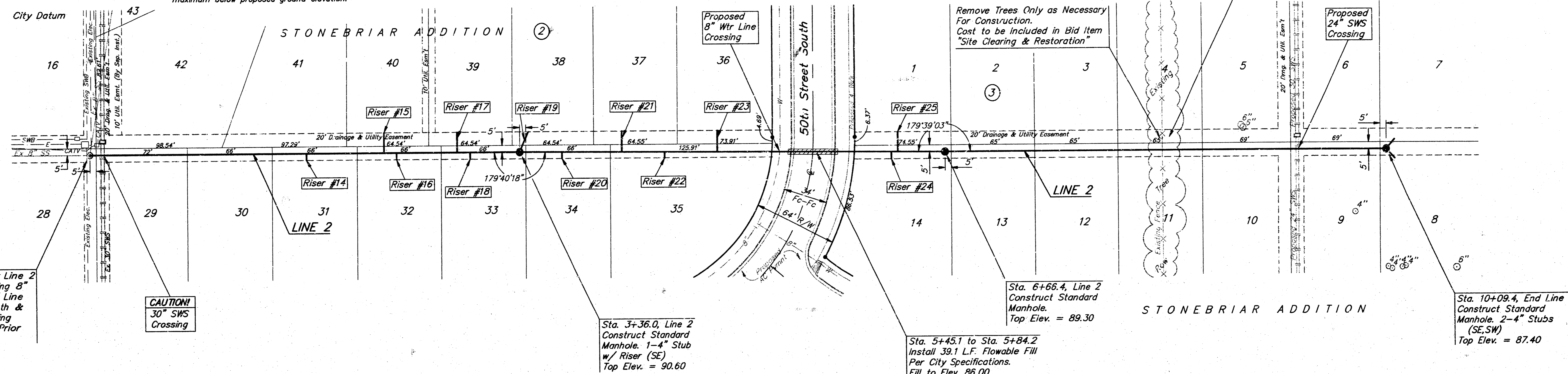
NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
20	8" X 4" Tee Saddle	34	2	2	3+70/Rt.	9.5'	5'
21	8" X 4" Tee Saddle	37	2	2	4+16/Lt.	10'	15'
22	8" X 4" Tee Saddle	35	2	2	4+49/Rt.	10.5'	5'
23	8" X 4" Tee Saddle	36	2	2	4+91/Lt.	9.5'	15'
24	8" X 4" Tee Saddle	14	3	2	6+25/Rt.	8.5'	5'
25	8" X 4" Tee Saddle	1	3	2	6+30/Lt.	8.5'	15'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

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



STONEBRIAR ADDITION - PHASE II
LINE 2
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P. A.
 ENGINEERING, SURVEYING, & PLANNING
 315 ELLIS - WICHITA, KANSAS 67211
 316-262-7227

PROJECT NUMBER: 468-6000-62640
 DATE: 3-23-98
 SCALE: NGED

DESIGN: GUP/DNV
 DRAWN: JAK
 APPROVED: [Signature]
 SHEET: 3 OF 9

Benchmark:

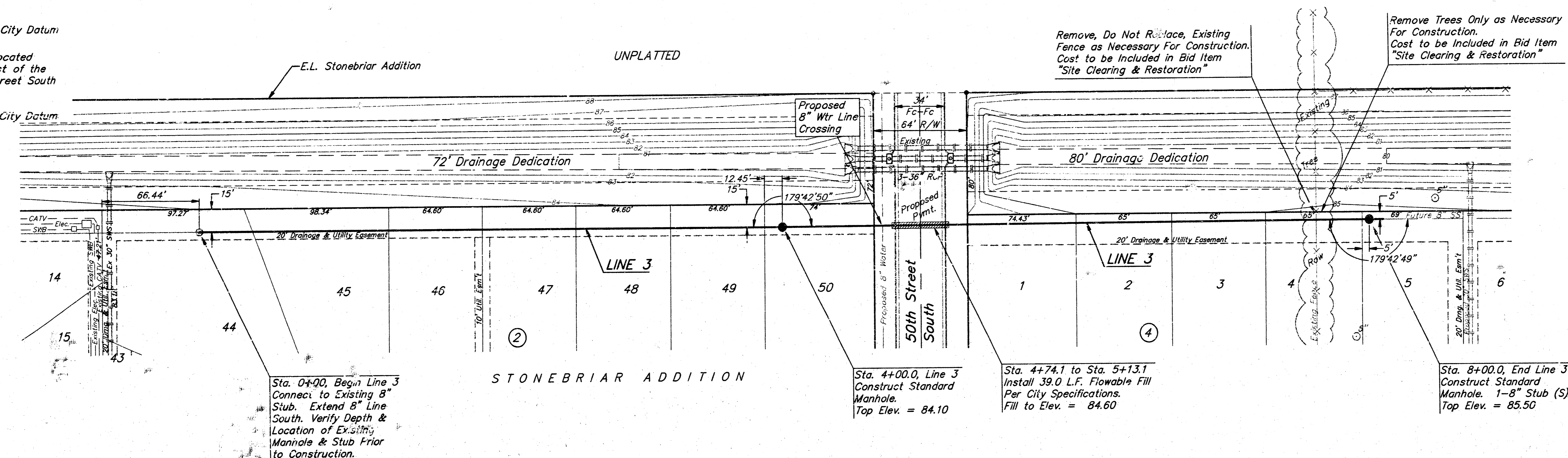
Railroad Spike in Power Pole
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SCALE:
 1" = 40' HORIZONTAL
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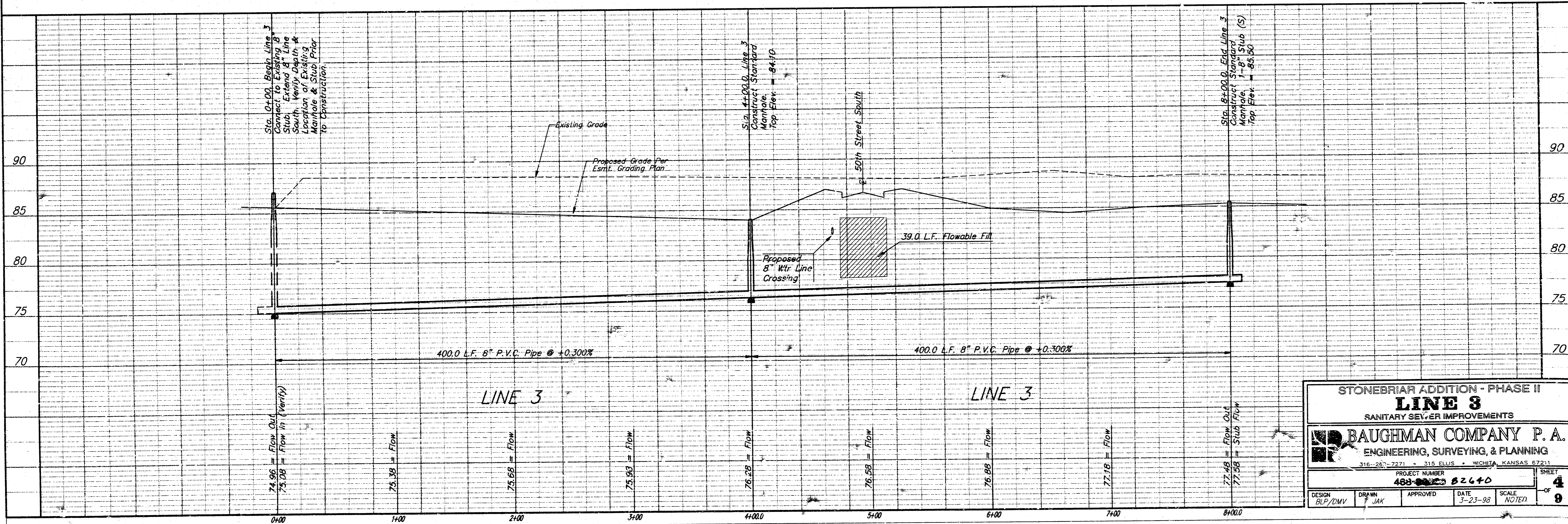


Sta. 0+00, Begin Line 3
 Connect to Existing 8"
 Stub. Extend 8" Line
 South. Verify Depth &
 Location of Existing
 Manhole & Stub Prior
 to Construction.

Sta. 4+00.0, Line 3
 Construct Standard
 Manhole.
 Top Elev. = 84.10

Sta. 4+74.1 to Sta. 5+13.1
 Install 39.0 L.F. Flowable Fill
 Per City Specifications.
 Fill to Elev. = 84.60

Sta. 8+00.0, End Line 3
 Construct Standard
 Manhole. 1-8" Stub (S)
 Top Elev. = 85.50



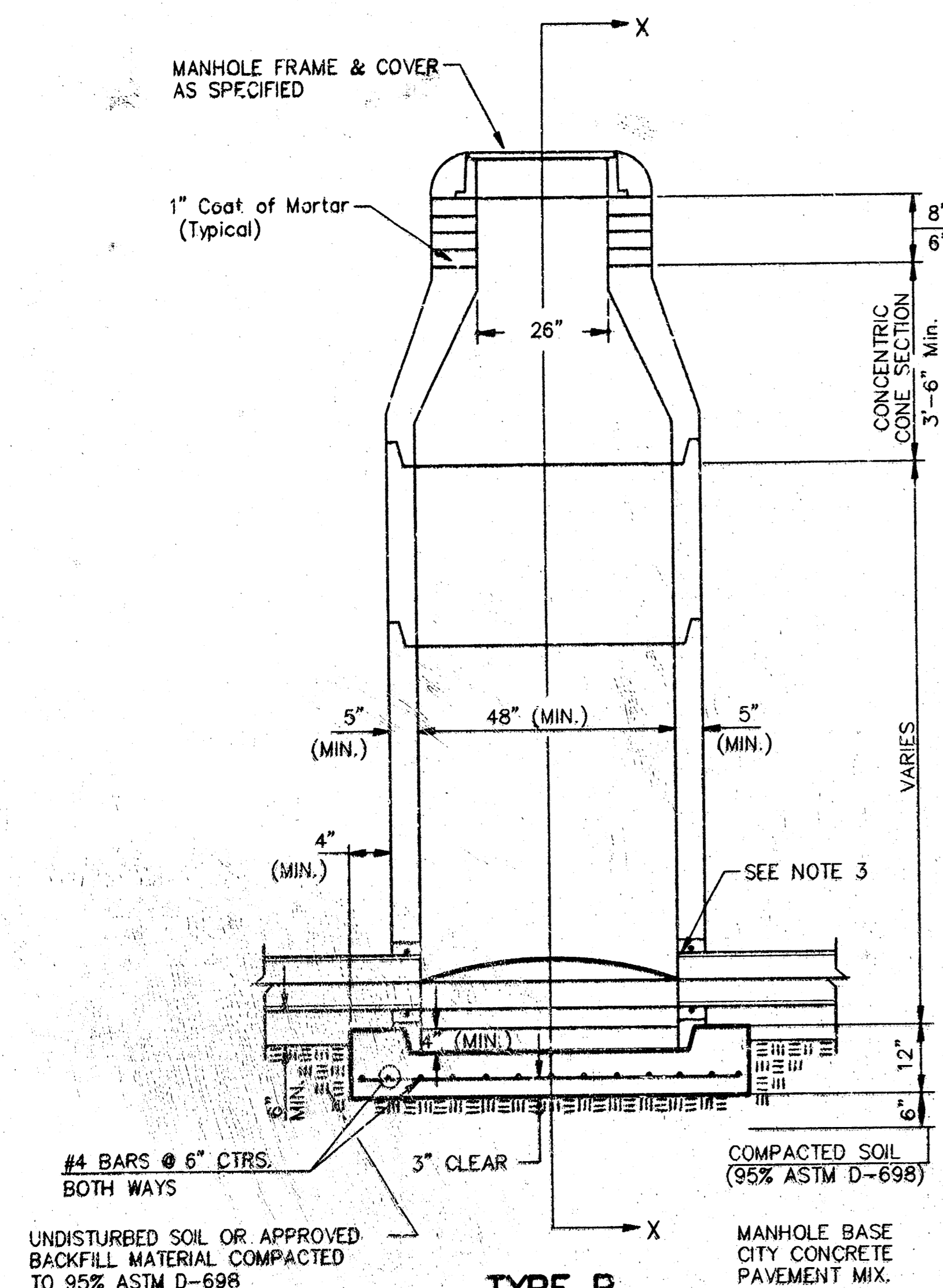
STONEBRIAR ADDITION - PHASE II
LINE 3
 SANITARY SEWER IMPROVEMENTS

BAUGHMAN COMPANY P. A.
 ENGINEERING, SURVEYING, & PLANNING
 316-267-7271 • 315 ELLIS • WICHITA, KANSAS 67211

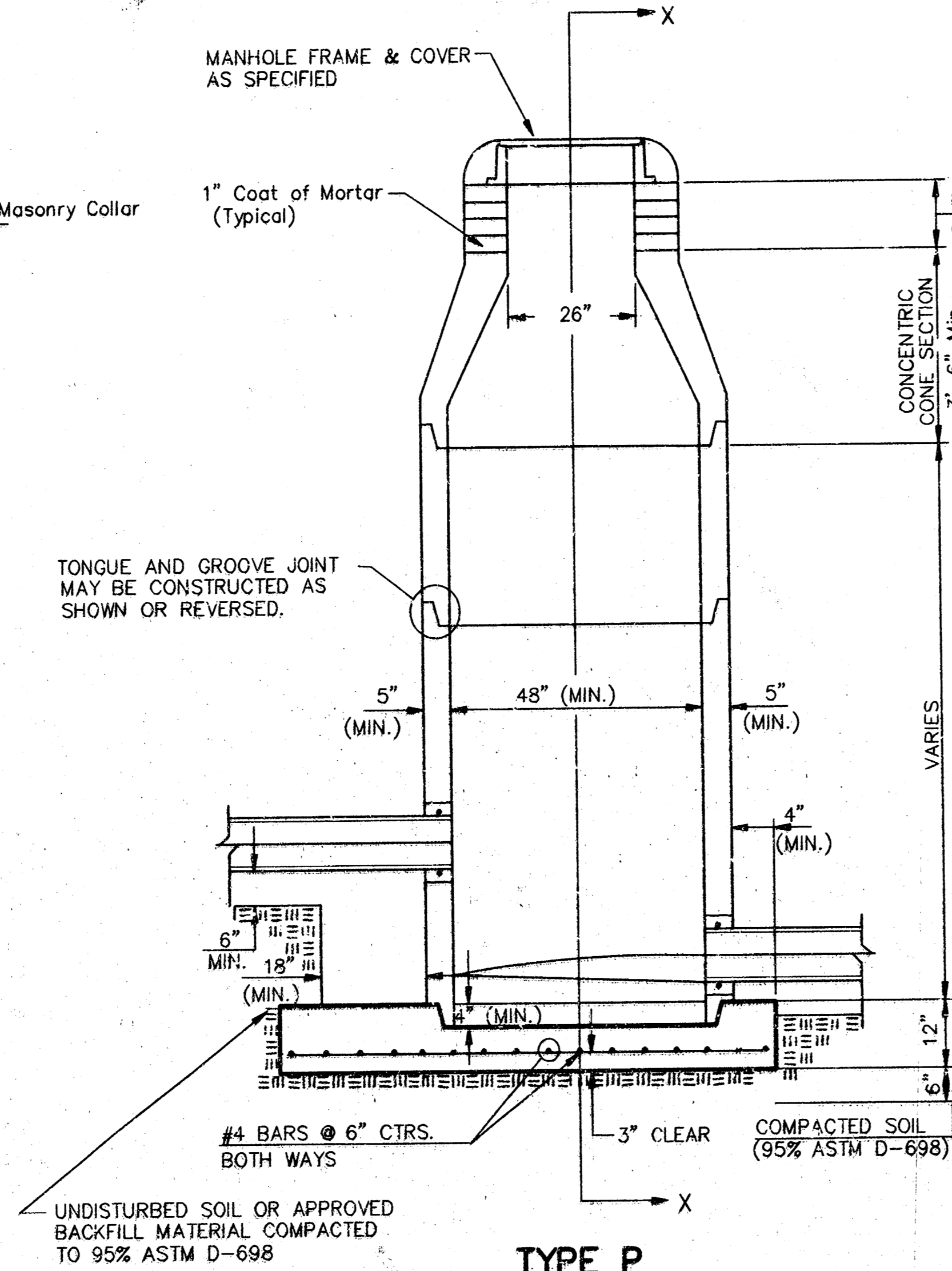
PROJECT NUMBER: **488-0003 02640**

DESIGN: BLP/DMV | DRAWN: JAK | APPROVED: [Signature] | DATE: 3-23-98 | SCALE: NOTED | SHEET: 4 OF 9

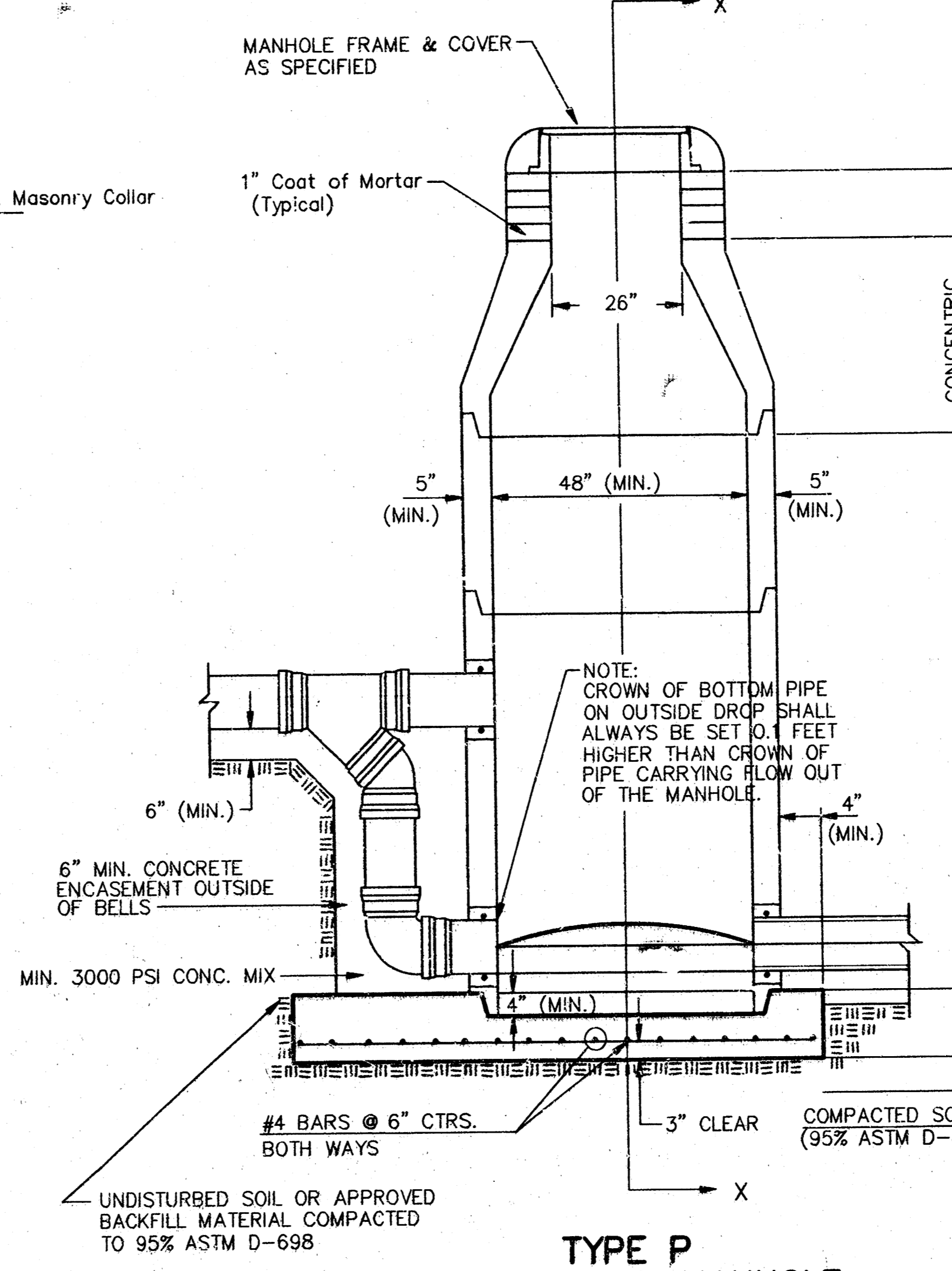
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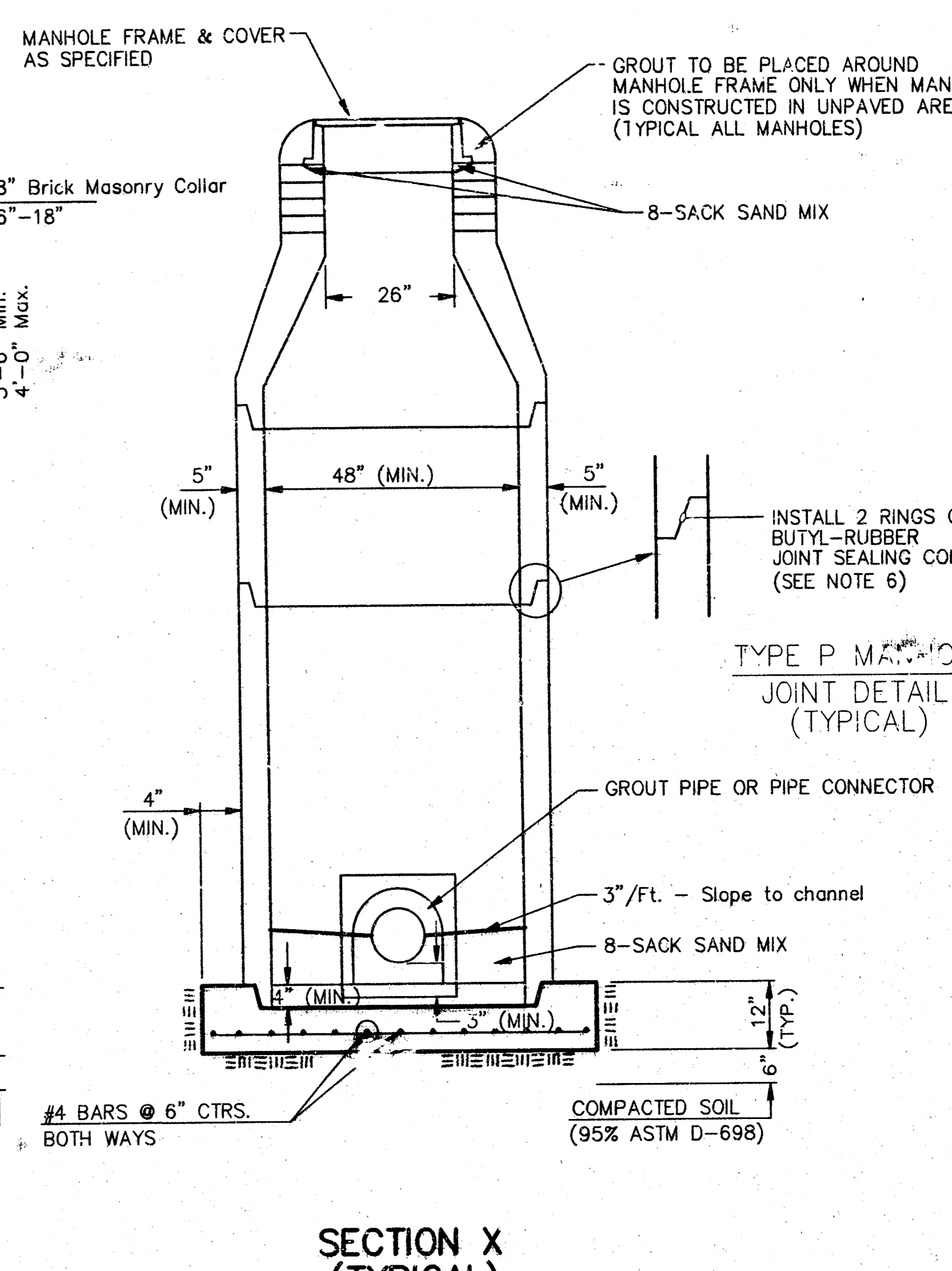
TYPE P STANDARD MANHOLE



TYPE P INSIDE DROP MANHOLE



TYPE P OUTSIDE DROP MANHOLE



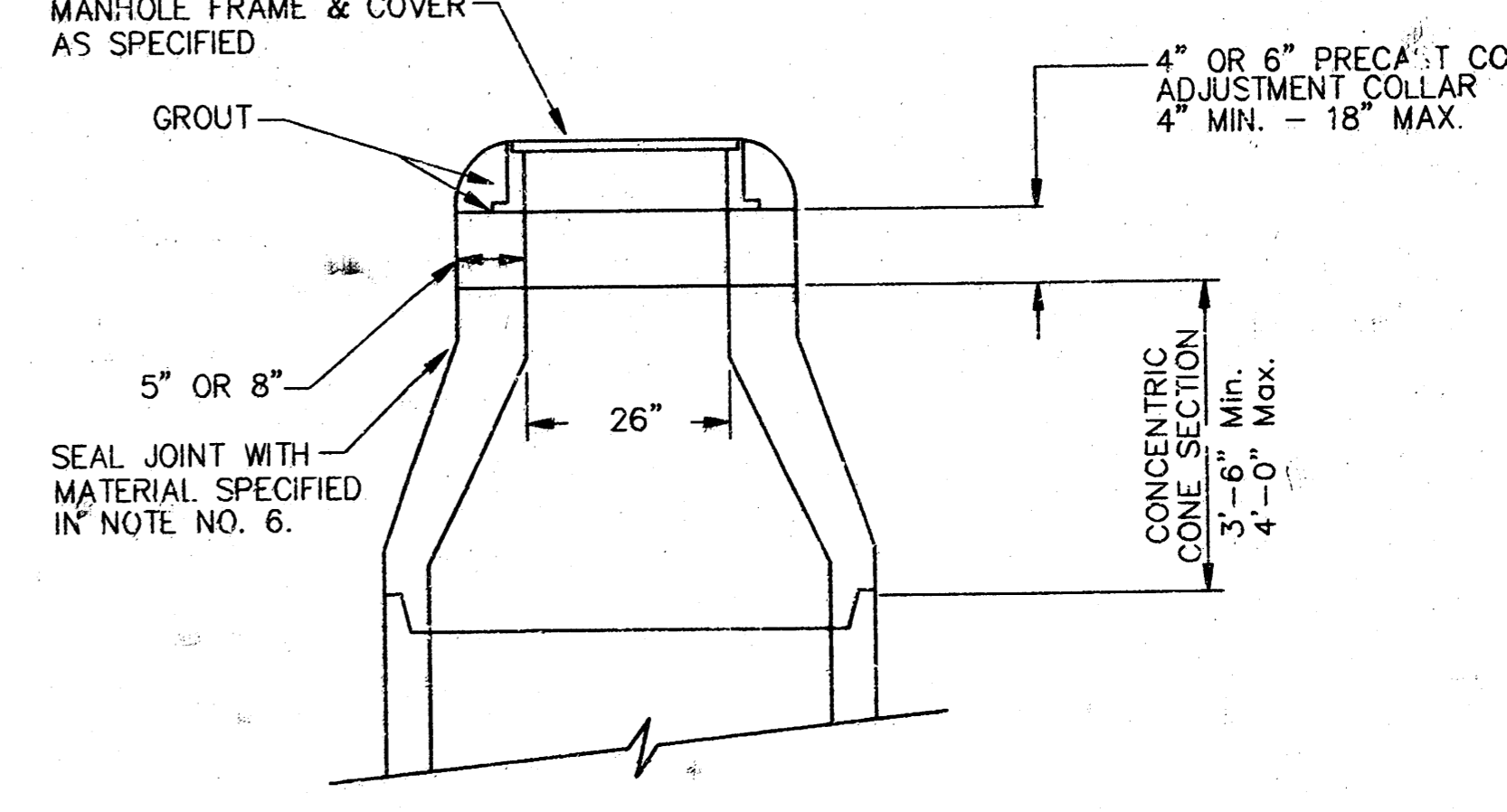
SECTION X (TYPICAL)

GENERAL NOTES
PRECAST MANHOLE NOTES

- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER PIPE SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEHC SERIES 66 HI-BUILD EPOXYING, DRY THICKNESS OF 8 MILS (MIN.).
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 635 BITUMINOUS COATING.
- JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- 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 AD MIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 24". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 30". 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 AT LEAST 3" 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 NONSHRINK 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. 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 SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE. FLOW 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 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 DRAWING.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' 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 AND STANDARD INSIDE DROP MANHOLES 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.
- A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.



ALTERNATE CONSTRUCTION IN UNPAVED AREAS

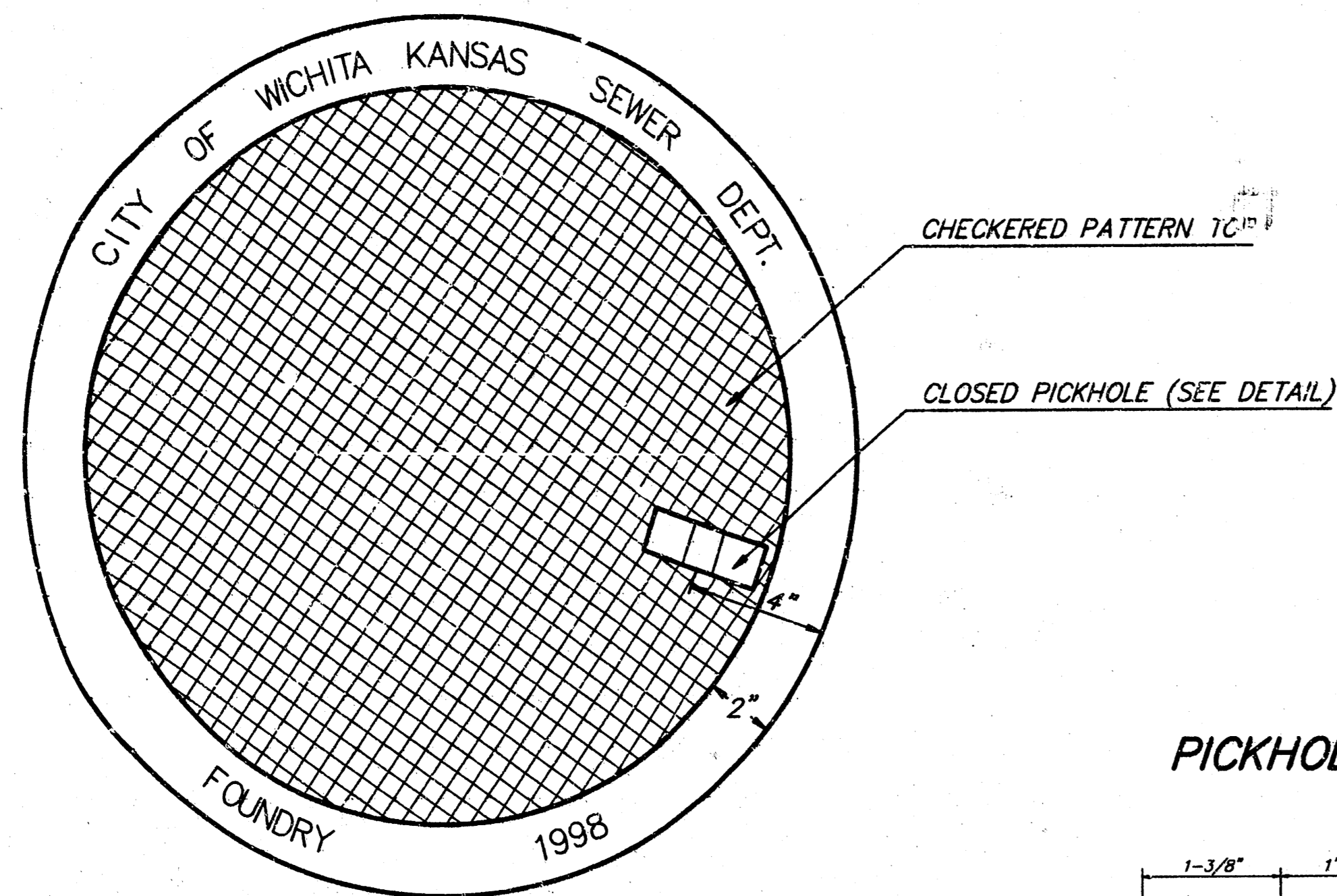
CITY OF WICHITA
STD. MANHOLE DETAILS
& SEWER APPURTENANCES DETAIL

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 PROJECT NUMBER 83640 WICHITA, KANSAS 67211

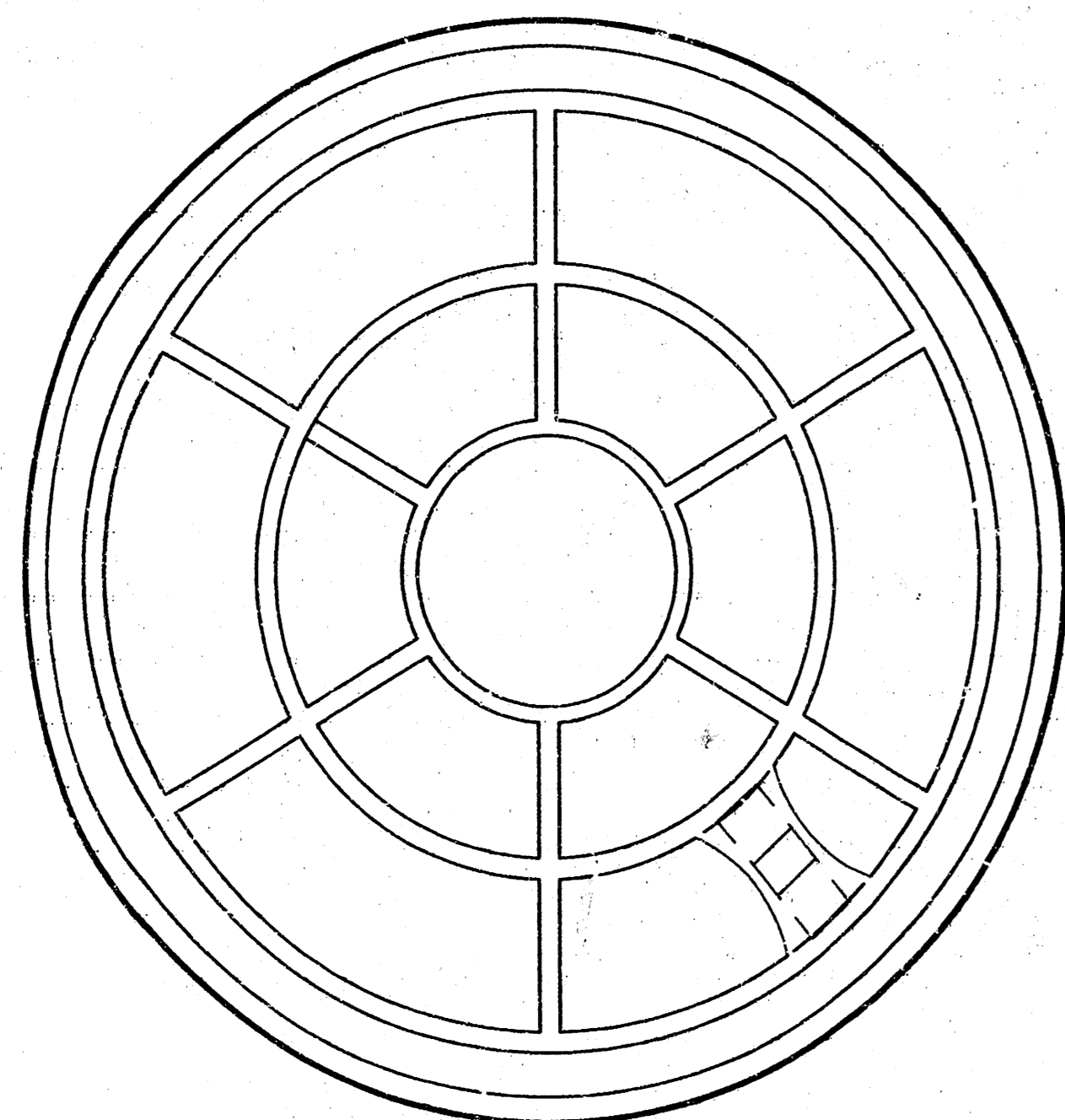
488-5201 83640 SHEET 6 OF 9

DESIGN: C.G.W. DRAWN: Staff APPROVED: DATE: SCALE: NONE

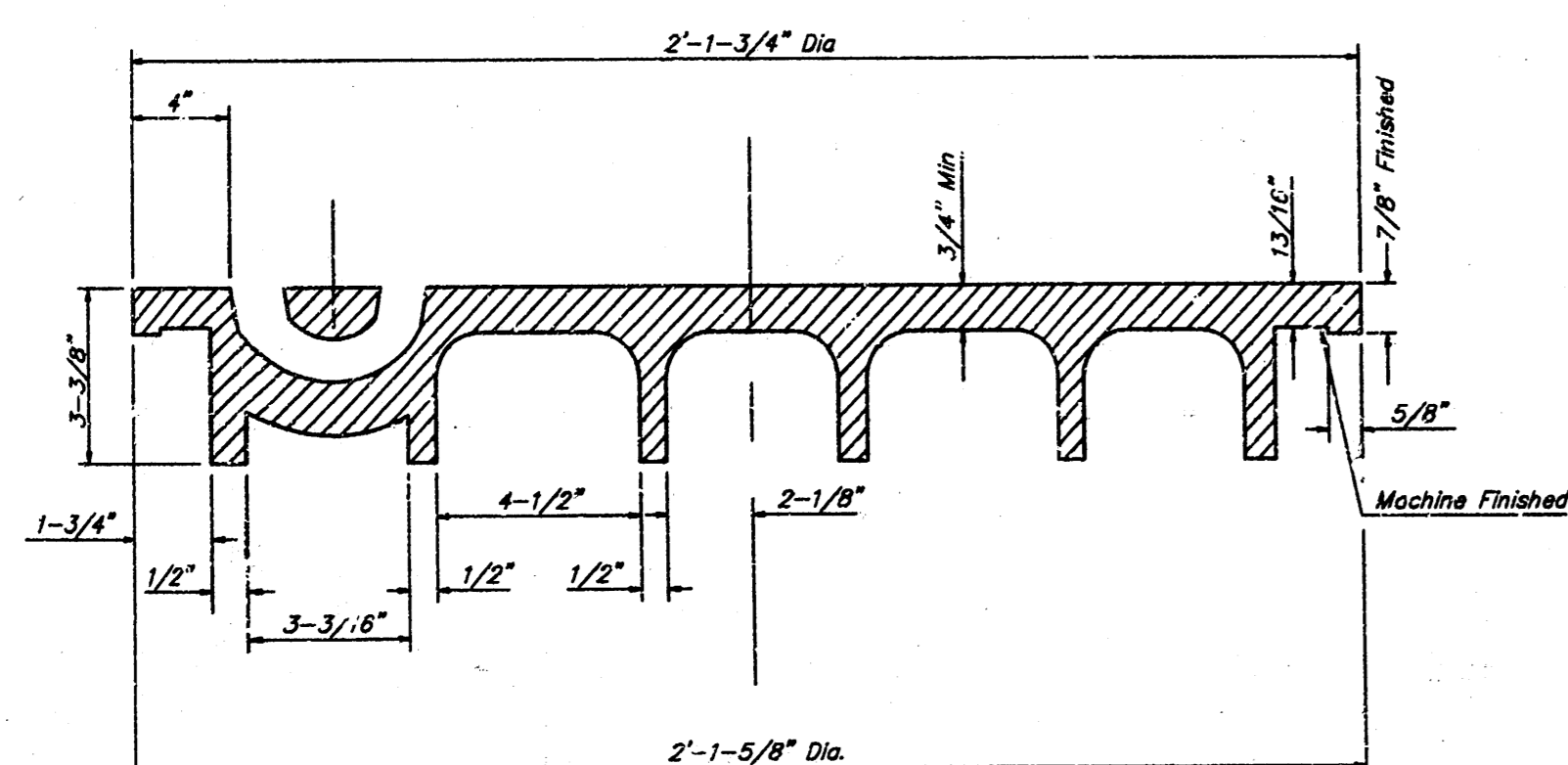
MANHOLE COVER
Weight = 180 Lbs.



TOP VIEW



BOTTOM VIEW

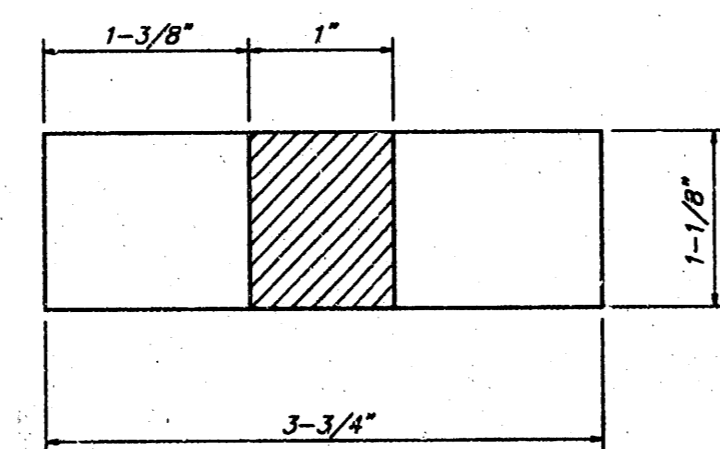


SECTION VIEW

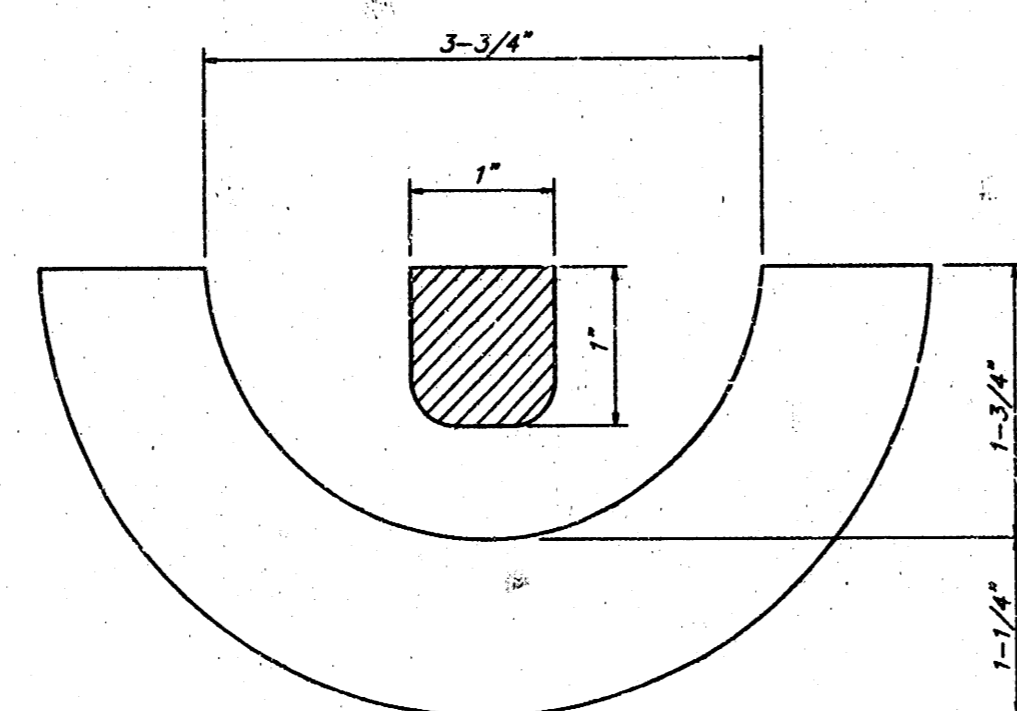
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

PICKHOLE DETAIL

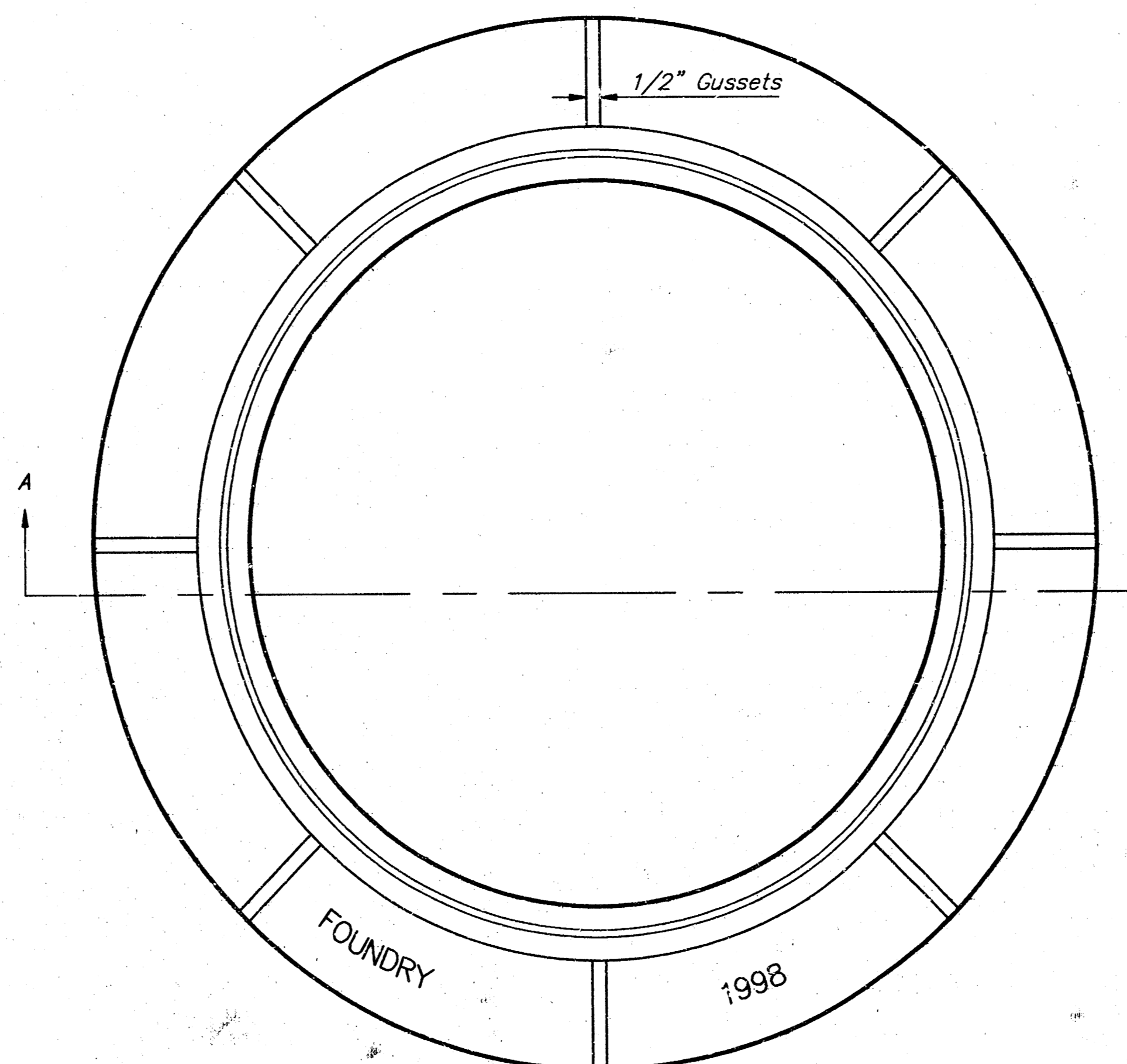


TOP VIEW

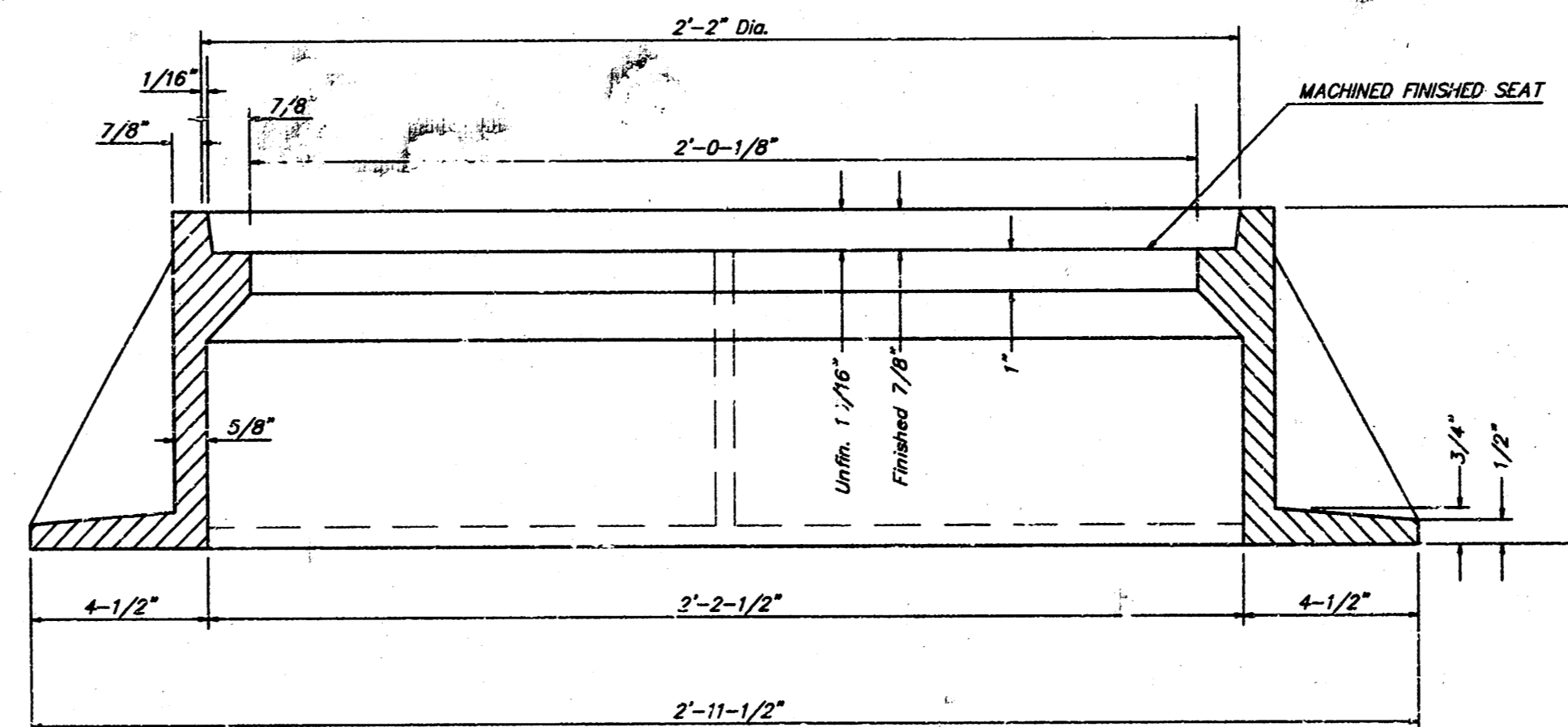


SECTION VIEW

MANHOLE FRAME
Weight = 240 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 ALL NECESSARY 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 BLOCKOUTS 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
316-262-2277 • 316-262-2278 • WICHITA, KANSAS 67211

PROJECT NUMBER
468-2266 82640

DESIGN: Staff DRAWN: Staff APPROVED: DATE: SCALE: None SHEET: 7 OF 9

DETAILS IMPRINTS

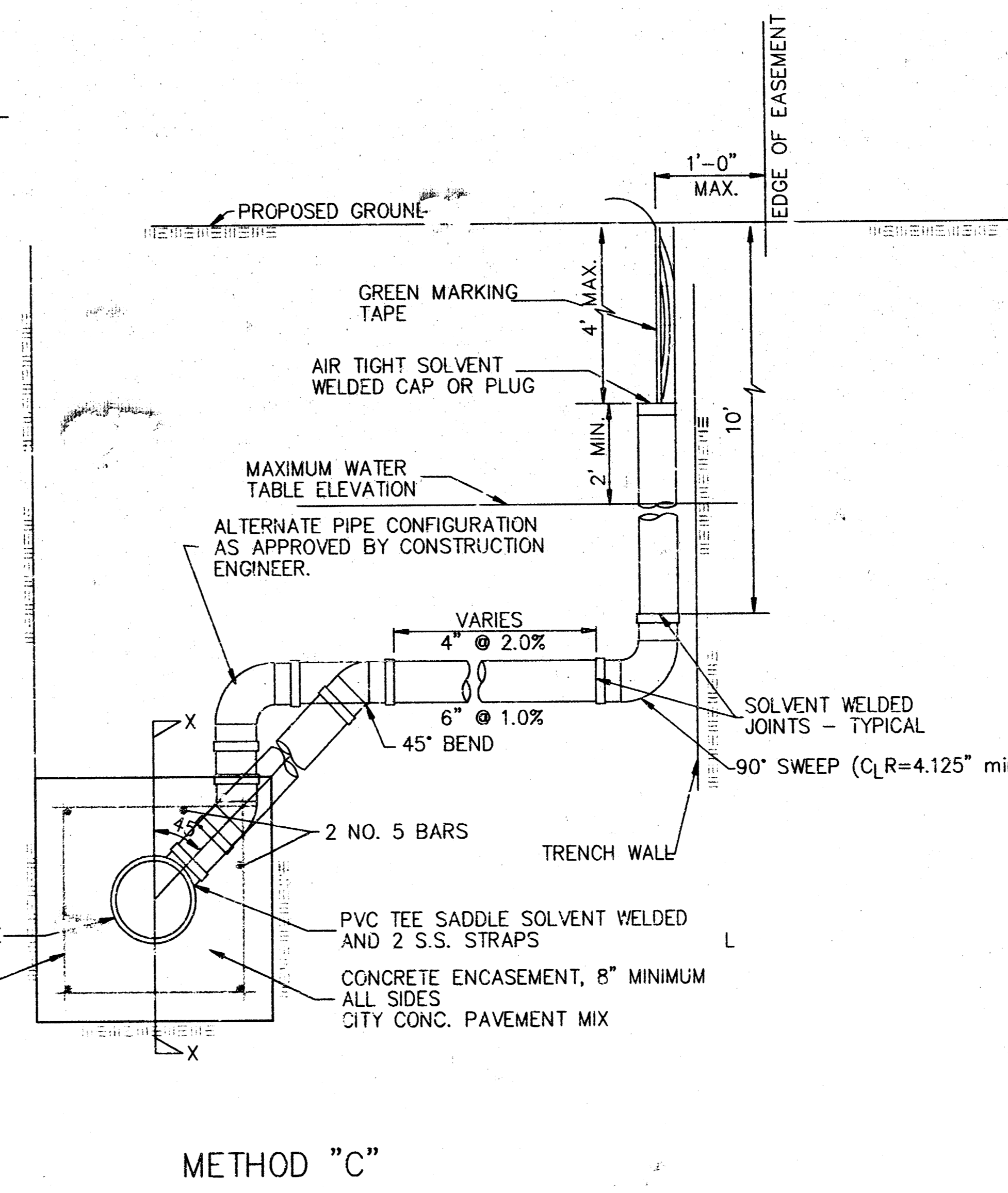
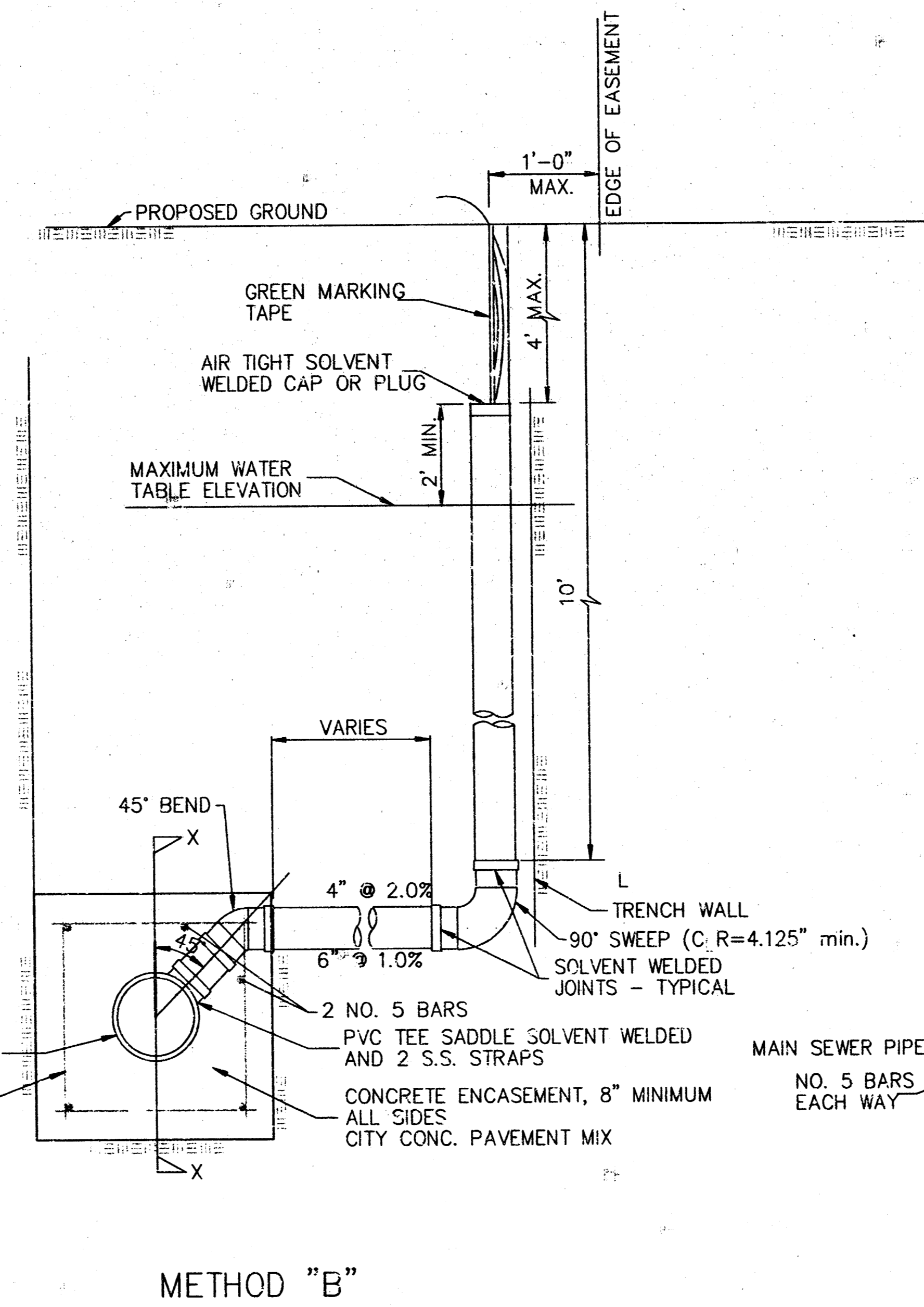
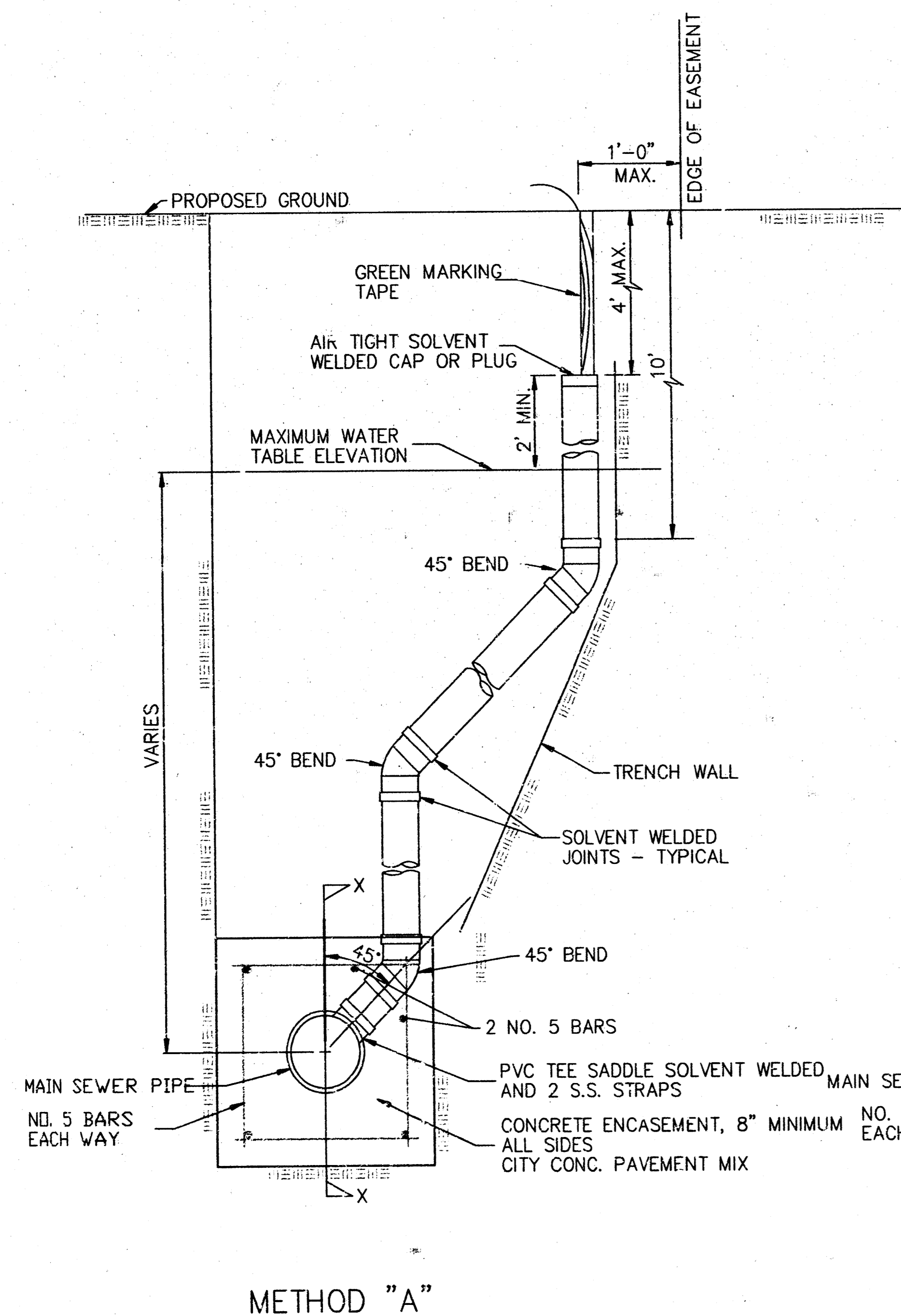
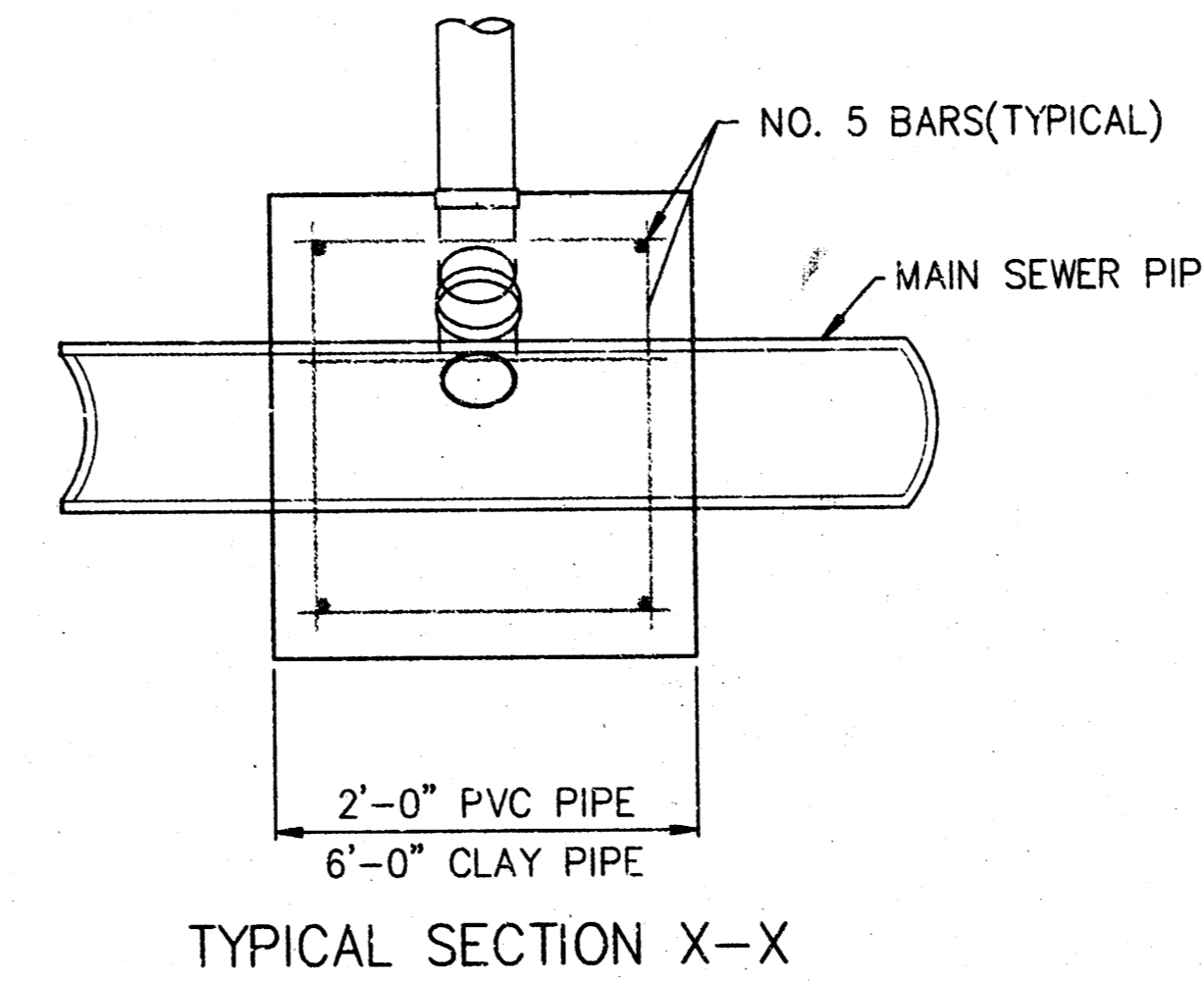
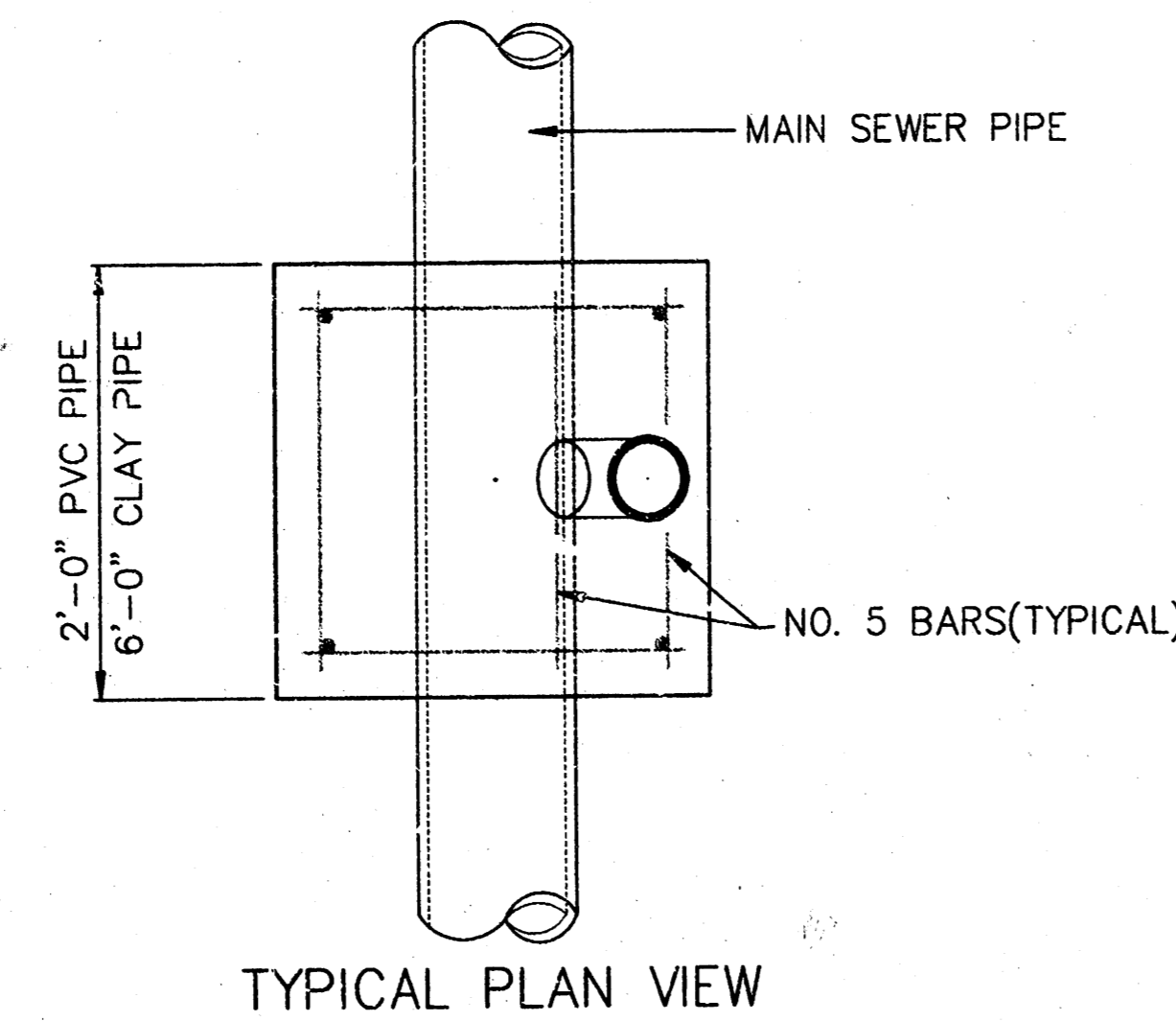
VERTICAL RISER DETAILS

ADOPTED AS STANDARD DESIGN

BY

CITY OF WICHITA, KANSAS

OCTOBER 1992



- GENERAL NOTES
- RISERS.** Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table. Risers shall also be installed to serve all lots and tracts where the sanitary sewer main depth is greater than 12 feet below the proposed ground elevation. Installation of risers because of field conditions shall be as approved by the Construction Engineer. The location of the risers to serve developed property shall be approved by the property owner and the Construction Engineer.
 - PIPE STUBS.** Pipe stubs shall be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flange of the manhole pipe stub and the flowline of the sanitary sewer main out of the manhole shall not exceed 2 feet. Risers shall be utilized at manhole pipe stubs as indicated in Note 1. Manhole pipe stubs shall be set such that the top of the stub is not lower than the top of the sanitary sewer main.
 - SIZING.** Pipe stubs and risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers or pipe stubs are required because of field conditions, the risers and stubs shall be six-inch diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers and stubs shall be approved by the Construction Engineer prior to installation.
 - RISER OR STUB MATERIAL.** Risers and stubs shall be constructed of SDR 35 PVC Pipe or Schedule 40 P.V.C. Pipe, meeting the requirements of the latest revision of A.S.T.M. All pipe joints shall be solvent welded.
 - REINFORCED CONCRETE ENCASUREMENT.** Riser connections to clay pipe sanitary sewers shall be reinforced concrete encased both ways from the riser centerline. The reinforced concrete encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary Sewer mains shall be reinforced concrete encased one foot each way from the riser centerline. The concrete encasement shall be reinforced using reinforcing steel as shown in the appropriate drawing. The concrete shall conform to the City Standard Specifications for concrete pavement.
 - BEDDING.** Bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
 - SUPPORT OF RISERS.** Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and backfilling the riser pipe shall be approved by the Construction Engineer.
 - PLUGGING.** The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
 - TOP OF THE RISER PIPE.** The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. Where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation two feet (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
 - MARKING.** Locations of the ends of the sanitary sewer riser pipe shall be marked by fastening green colored plastic tape to the end of the riser. The tape shall be supported by a length of wooden 2 x 4, extending from the top of the riser pipe to the proposed ground surface. The green tape shall be visible and extend one foot above the proposed ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.
 - LOCATION MEASURES.** The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicating the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser.
 - RISER LOCATION.** The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
 - PAYMENT.** "Sanitary sewer risers" shall be paid for at the contract unit price per each, which price shall be full compensation for all pipe, fittings, marking tape, length of wooden 2 x 4, reinforced concrete encasement, support during backfill, backfill, labor, site restoration, and any other items necessary to complete the work.
"Manhole stubs" shall be paid for at the contract unit price per each, which shall be full compensation for all labor, material, and incidentals necessary to complete the work including all pipe, fittings, reinforced concrete encasement, and all other items as required and listed for "Sanitary Sewer Risers".

NOTE: RISER PIPE REQUIREMENTS AT MANHOLE STUBS SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

City of Wichita Standard			
Riser Details			
BAUGHMAN COMPANY P. A.			
ENGINEERING, SURVEYING, & PLANNING			
315-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER		SHEET	
488-3000 22640		8	
DESIGN	DRAWN	APPROVED	DATE
			SCALE
			OF
			9

STONEBRIAR ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas) SS We, Bohannon, P.A. Surveyors in
Sedgwick County and State do hereby certify that we have surveyed
and plotted STONEBRIAR ADDITION, Wichita, Sedgwick County, Kansas
and that the accompanying plat is a true and correct exhibit of the
property surveyed, described as follows: To-wit: The NE 1/4 of Sec. 24,
T. 28-S., R. 14-E., of the 6th P.M., Sedgwick
County, Kansas.

Existing public easements and dedications being created by virtue
of K.S.A. 12-512(b).

Bohannon Company, P.A.

Michael G. Conroy & Bob J. Surver
Michael G. Conroy, P.A. Surveyor

Know all men by these presents that we, the undersigned, have caused the plat on the reverse hereof to be certified to be a true and correct exhibit of the property surveyed, described as follows: To-wit: The NE 1/4 of Sec. 24, T. 28-S., R. 14-E., of the 6th P.M., Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities, the drainage easements are hereby granted as indicated for drainage easements and for the construction and maintenance of all public utilities. The emergency access easements are hereby granted as indicated for emergency access purposes and no vehicles or other structures shall be constructed or placed on or within these easements. The wall easements are hereby granted as indicated for the construction and maintenance of a private screening wall and utility man lines and service lines shall be allowed to cross these easements. The temporary easements are hereby granted as indicated for the use of the public for drainage easements and for the use of the public for drainage easements and for the use of the public for drainage easements. All abutters rights of access to or from 47th Street South and across the northwest line of Lots 10 and 11, Block 1, and Lot 1, block 2 are hereby granted as indicated to the City of Wichita, Kansas. The Minimum Building Foot Elevations for the lowest opening to the structures shall be as shown on the face of the plat.

Existing public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Investors Group, Inc.

Paul E. Kelsey
Paul E. Kelsey, President

State of Kansas) SS The foregoing instrument acknowledged before me, this 13th day of AUGUST, 1996, by Paul E. Kelsey, President of Investors Group, Inc., on behalf of the corporation.

Philip J. Meyer
Philip J. Meyer, Notary Public

My App. Exp. 5/24/97

We, the undersigned, holders of a mortgage on the above described property do hereby consent to this plat of STONEBRIAR ADDITION, Wichita, Sedgwick County, Kansas.

State Bank of Colwich

James D. Astrak
James D. Astrak, Assistant Vice-President

State of Kansas) SS The foregoing instrument acknowledged before me, this 13th day of AUGUST, 1996, by James D. Astrak, Assistant Vice-President, State Bank of Colwich, on behalf of the bank.

Philip J. Meyer
Philip J. Meyer, Notary Public

My App. Exp. 5/24/97

This plat of STONEBRIAR ADDITION, Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 13th day of AUGUST, 1996.

Wichita-Sedgwick County Metropolitan Area Planning Commission

Susan Osborne-Hawes
Susan Osborne-Hawes, Chair

Marvin S. Kroul
Marvin S. Kroul, Secretary

This plat approved and all dedications shown herein accepted by the City Council of the City of Wichita, Kansas, this 13th day of SEPTEMBER, 1996.

Bob Knight
Bob Knight, Mayor

Pat Burnett
Pat Burnett, City Clerk

Entered on transfer record this 23rd day of SEPTEMBER, 1996.

Susan E. Crockett-Spoen
Susan E. Crockett-Spoen, Sedgwick County Clerk

State of Kansas) SS This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 23rd day of SEPTEMBER, 1996, at 10:00 o'clock P.M., and is duly recorded.

Pat Kettler
Pat Kettler, Register of Deeds

Ed P. Reed
Ed P. Reed, Deputy

1569968

