

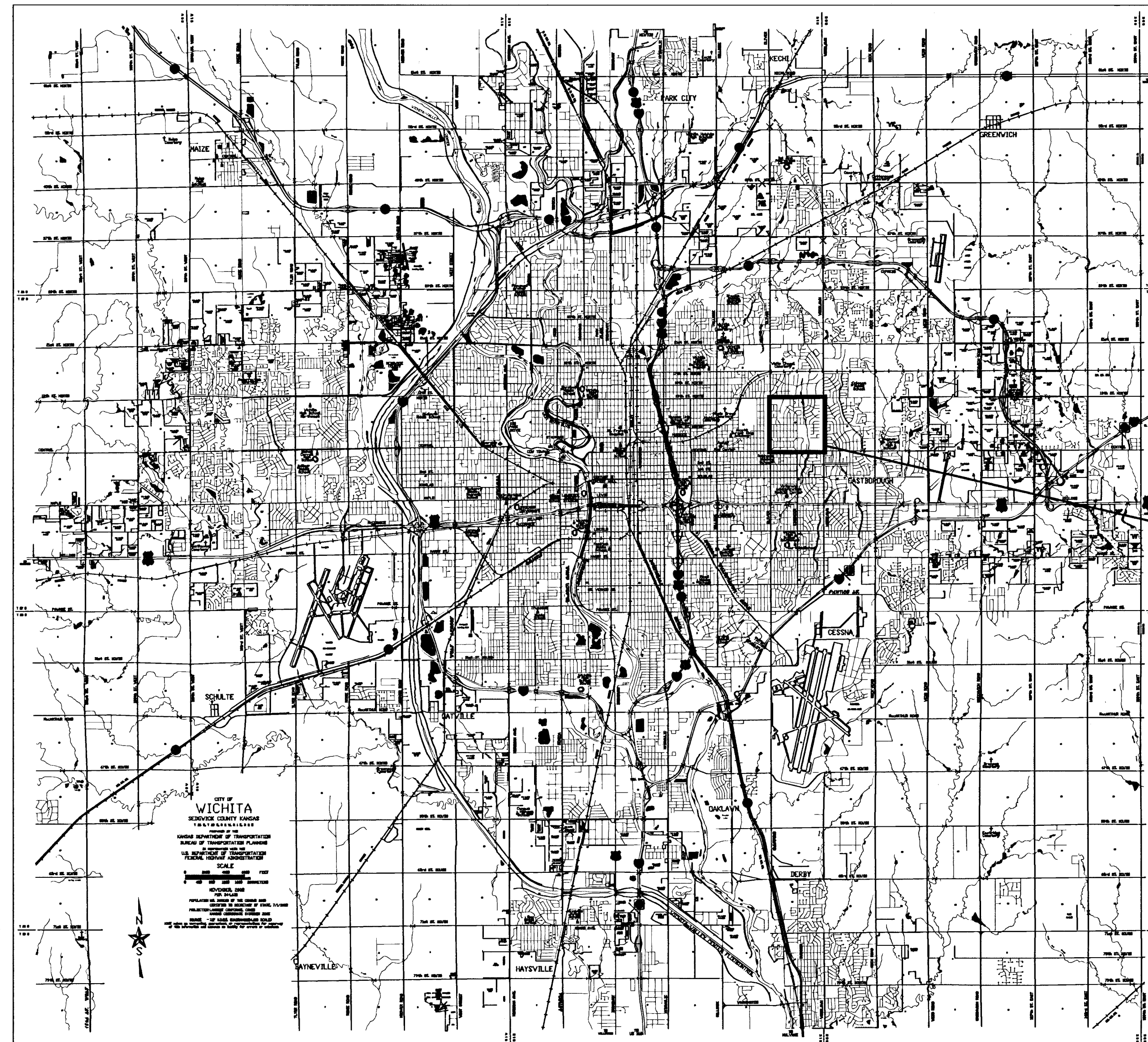
CONSTRUCTION PLANS
SANITARY SEWER RELIEF LINE
AT
EDGEMOOR PARK LIBRARY
TO
THE CITY OF WICHITA, KANSAS

NEIL D. CABLE, P.E. - CITY ENGINEER
PROJECT NO. 468-83722
O.C.A. NO. 620391

GENERAL NOTES:

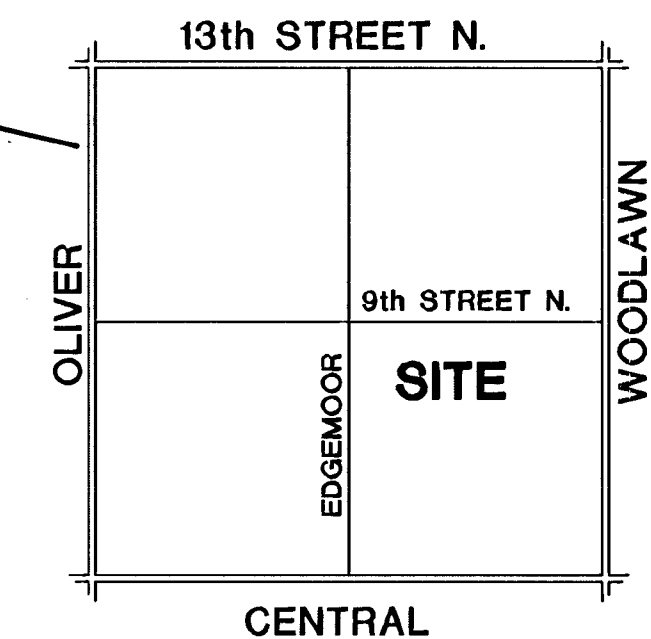
- Existing utility lines and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- 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 the work.
- 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.
- 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 the proposed new construction shall be saved and protected from damage.
- Contractor shall vacuum test all manholes according to the City of Wichita standard specifications.
- The tops of all Manholes to be set 0.4 feet above existing ground unless otherwise noted.
- All areas disturbed by sewer construction, i.e. R/W, easements, and adjacent properties shall be restored with the same grass/sod as per AR 78.
- Contractor shall maintain all existing BMP(s) on project site during construction. Contractor shall repair or replace any existing BMP(s) that are damaged (Cost subsidiary to site restoration). If BMP(s) were damaged prior to contractor beginning work on project, notify construction inspector or engineer.
- Contractor shall exercise caution when working near trees. Contractor shall be responsible for trees that are not in direct conflict with the sewer construction. Trees removed due to construction shall be replaced with a minimum of 2" caliper tree of the same species.



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LOCATION MAP
No Scale

AS BUILT
7/12/04
RDL
.PDF

BENCHMARKS

City of Wichita Datum

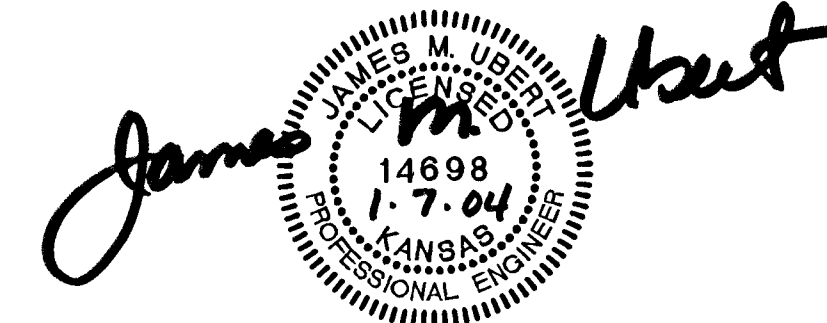
- "□" Cut on top of S. Curb of 9th St. at CL of Patricia. Elevation 193.22
- "+" Cut on concrete light pole base near SW corner of Library Parking Lot. Elevation 192.20

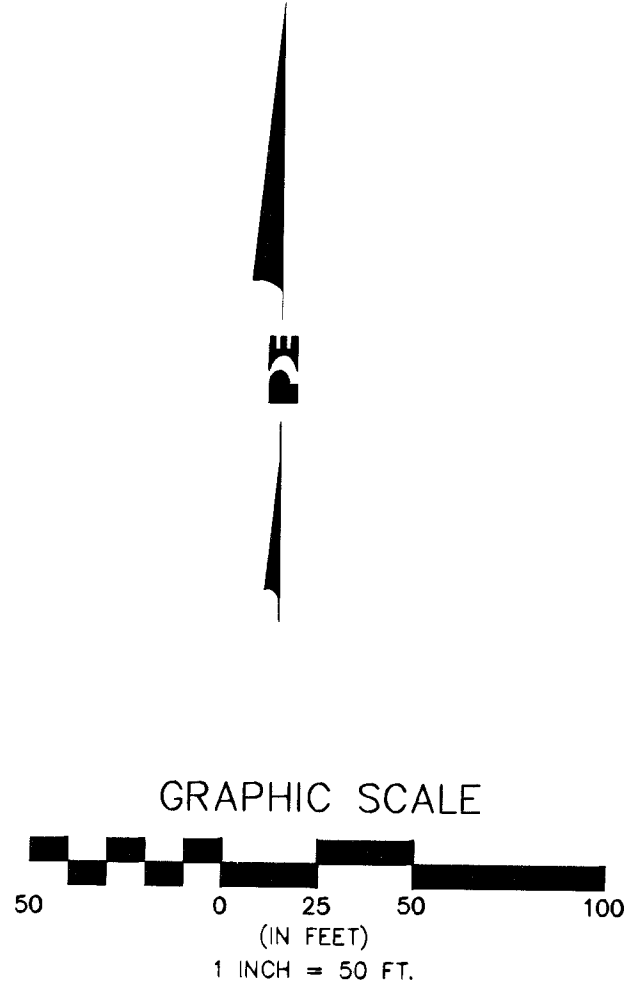
DECEMBER 2003

PLANS PREPARED
BY



POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
5940 E. Central, Suite 200 ■ Wichita, KS 67208-4242
Phone 316/685-4114 ■ FAX 316/685-4444

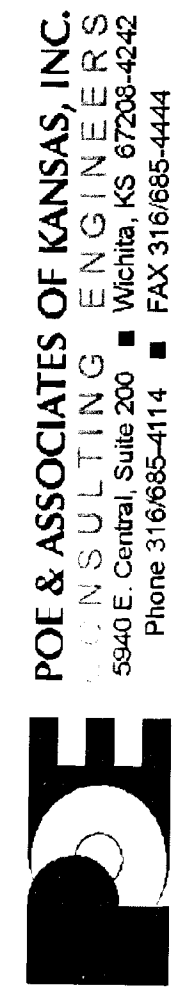




FINAL

Designed By: JMU
Drawn By: JMU/BK
Poe Job No.: 1782
Date: December 2003

Sheet
2 of 9



ROOSEVELT LIBRARY / EDGEMOOR PARK RELIEF SEWER

KEY MAP

CITY OF WICHITA, KANSAS
NEIL CABLE, P.E. - CITY ENGINEER

C.O.W. Proj. No. 468-83722 Index Code 620391

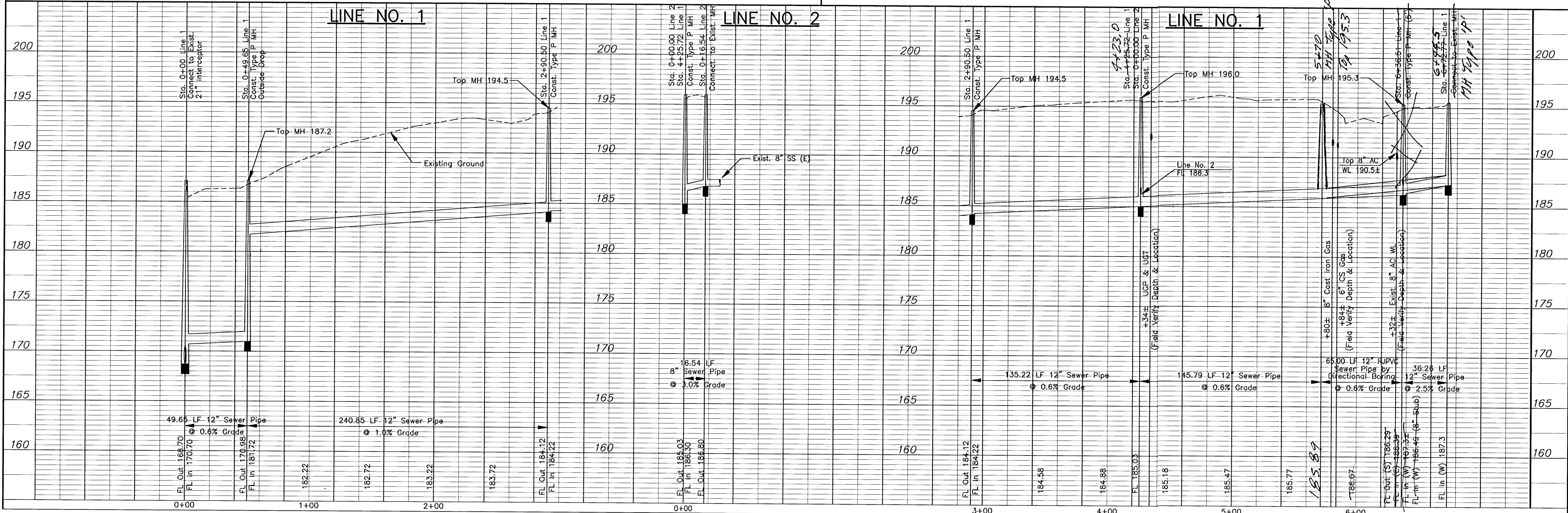
Revision

APPROVED

By

Date

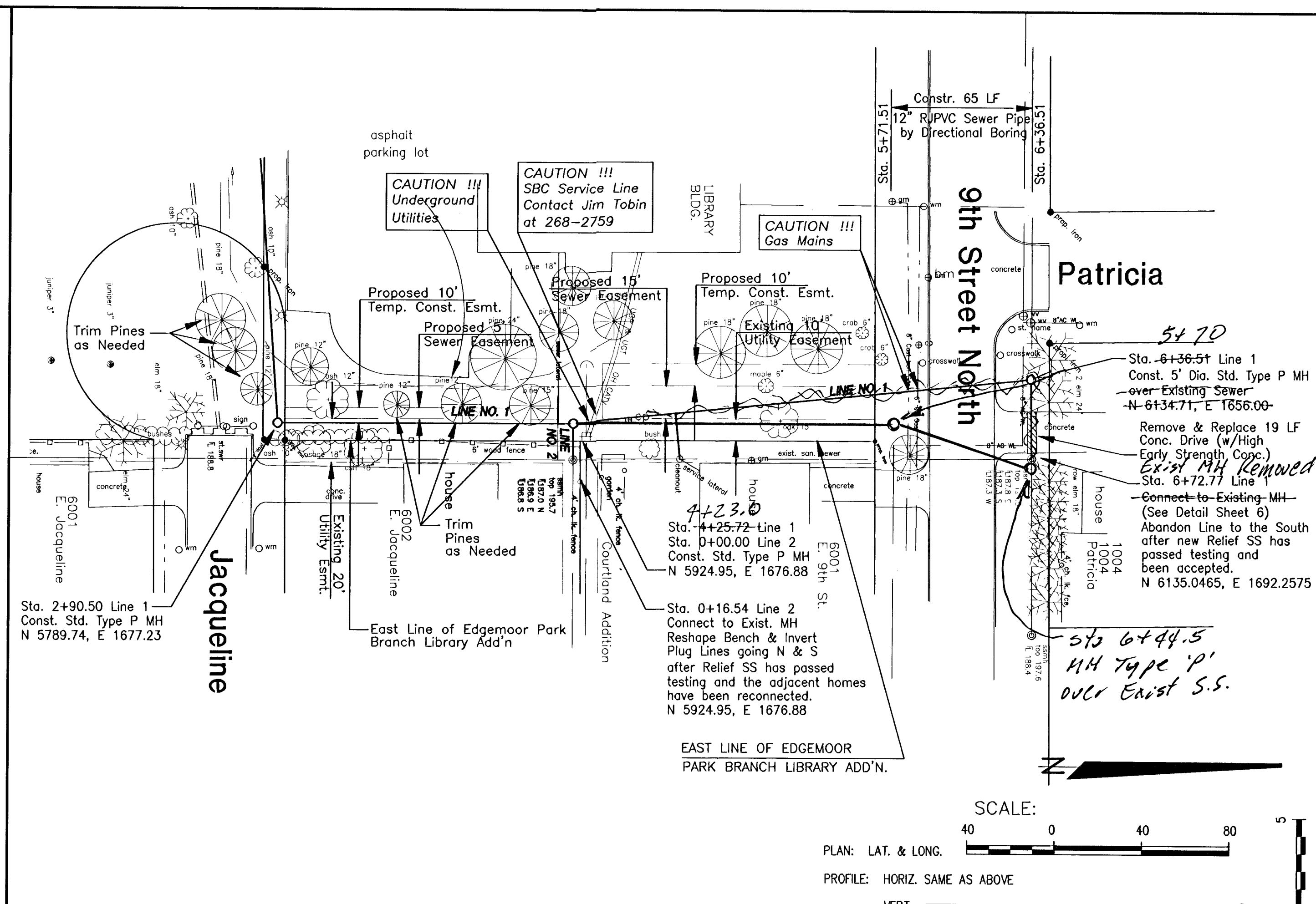
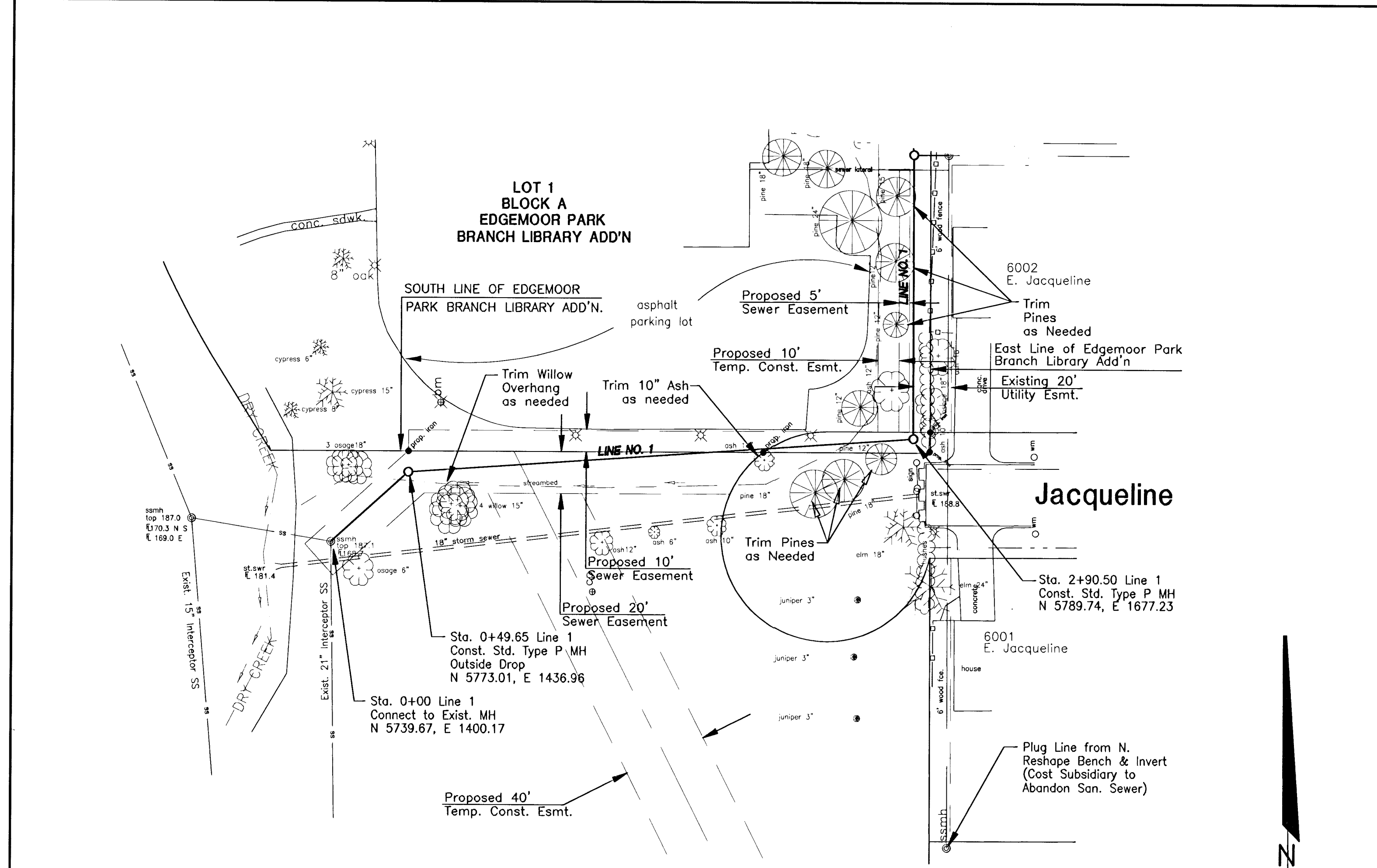
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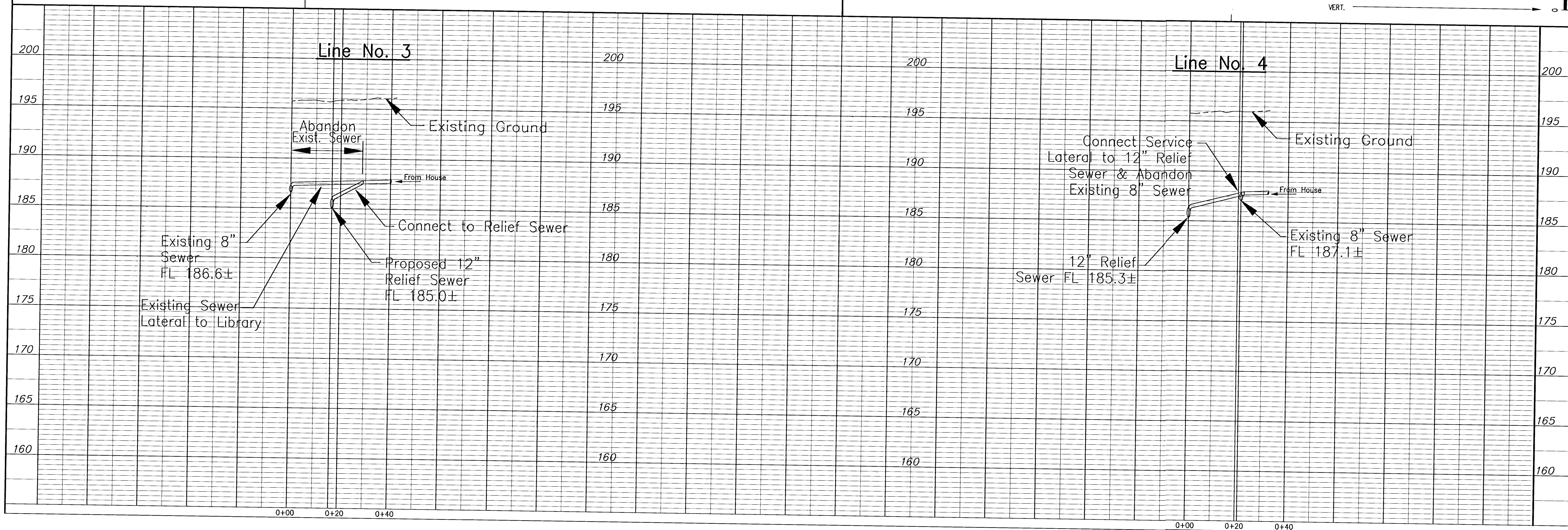
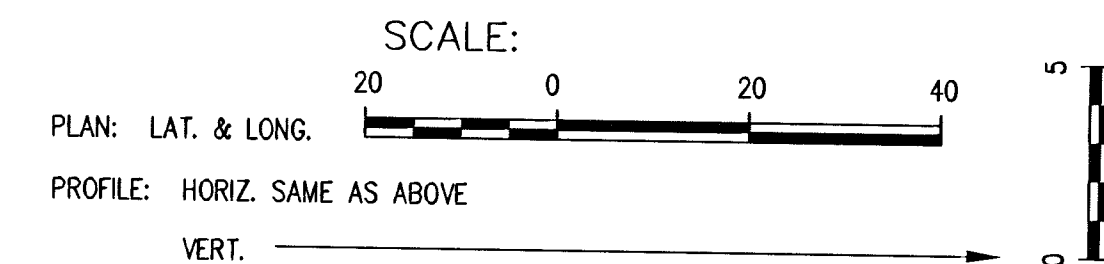
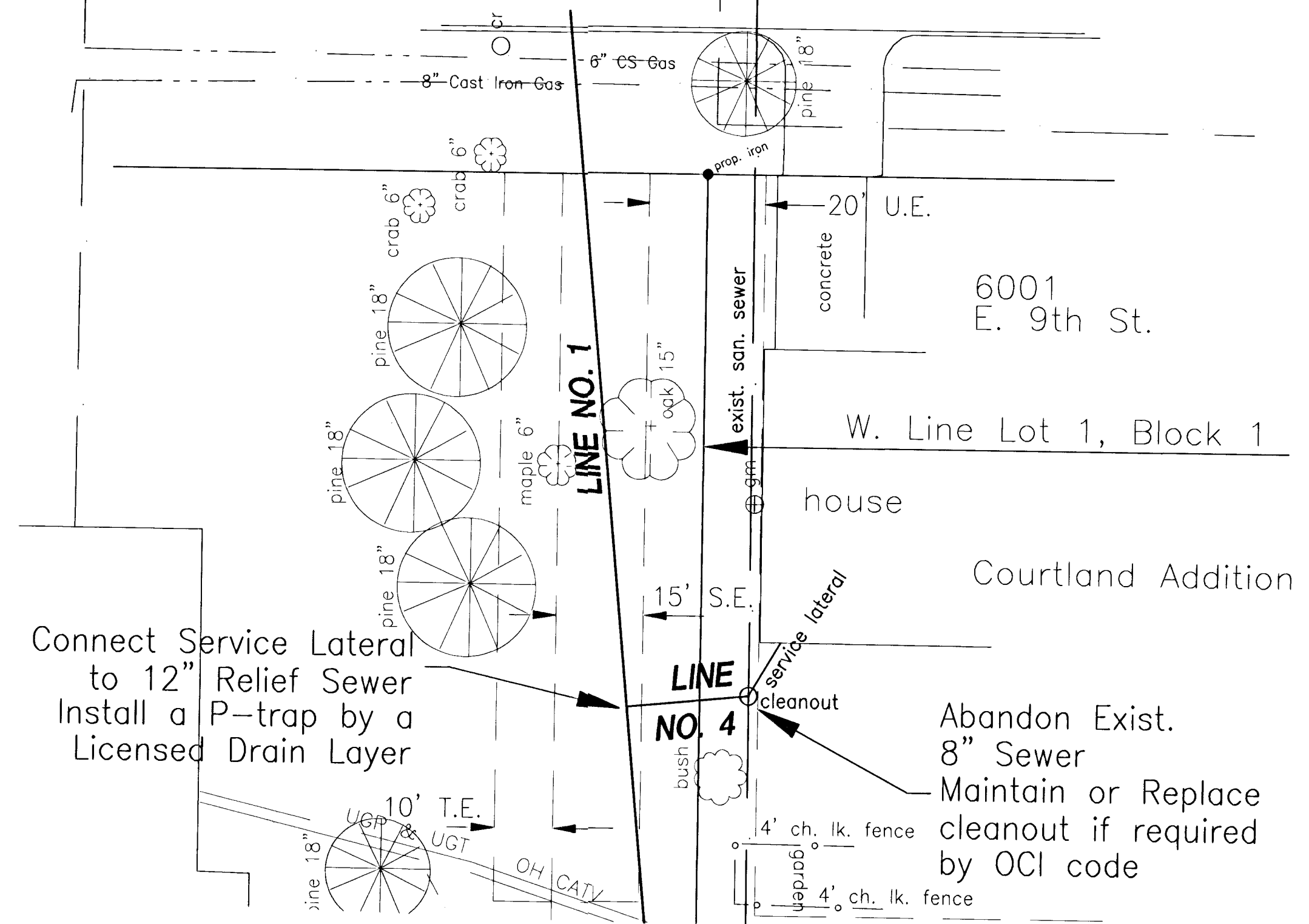
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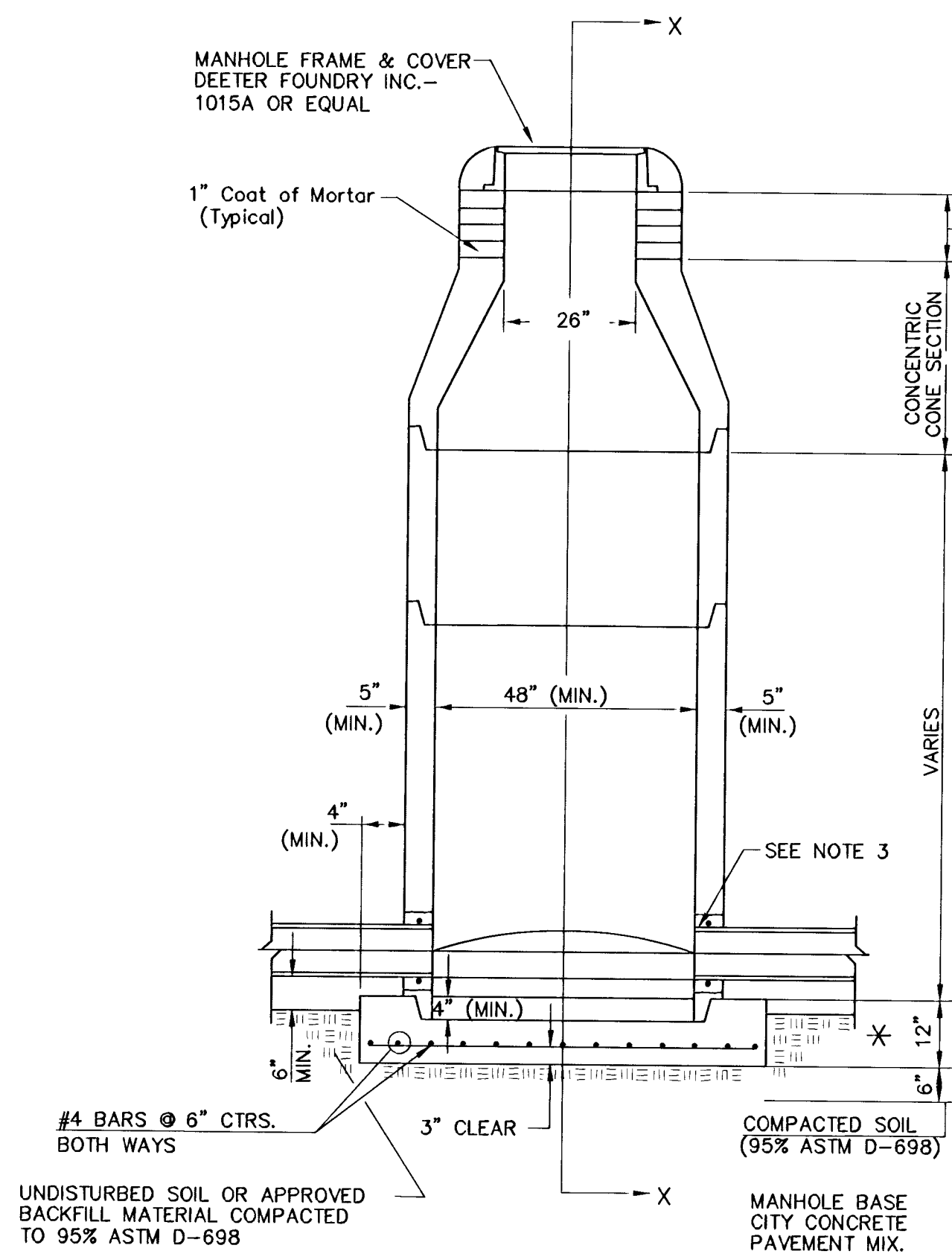


Roosevelt Library / Edgemoor Park Relief Sewer Sanitary Sewer Line No. 1 & 2

CITY OF WICHITA, KANSAS
NEIL CABLE, P.E. - CITY ENGINEER
C.O.W. Proj. No. 488-83722 Index Code 620391



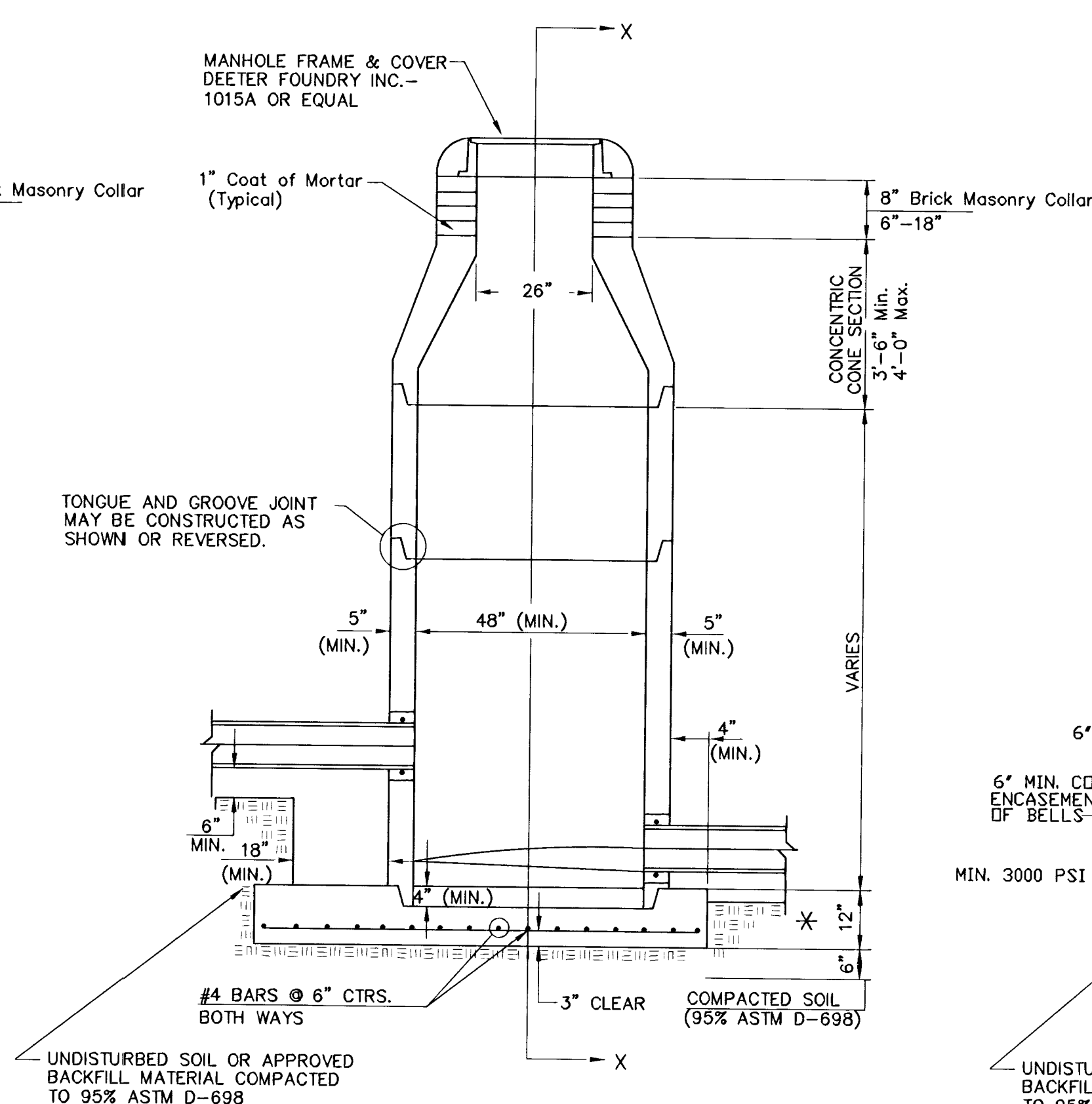
SEWER APPURTENANCES DETAILS



TYPE P
STANDARD MANHOLE

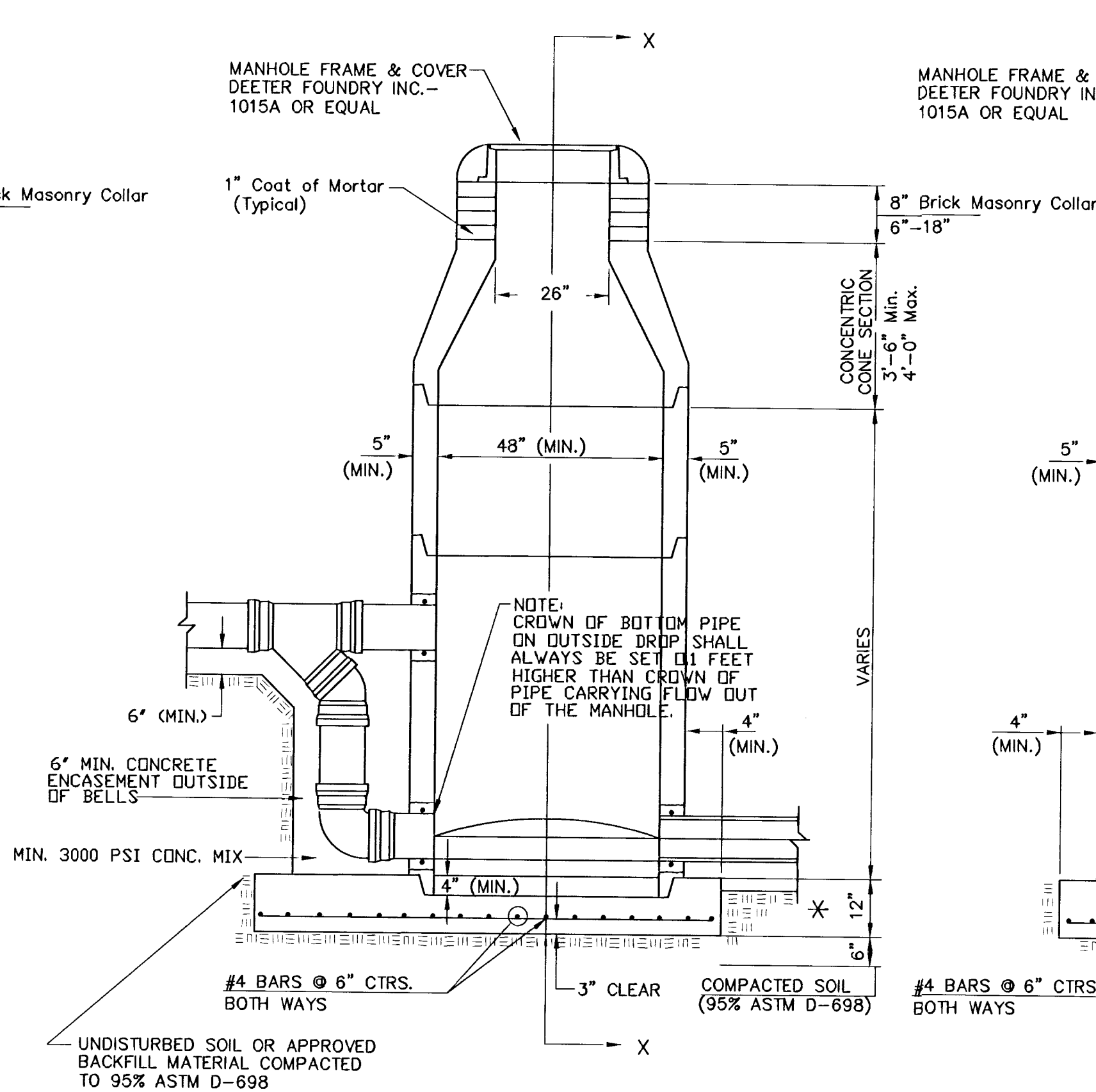
GENERAL NOTES
PRECAST MANHOLE NOTES

- 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 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 INMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 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 ADMIXTURE. 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 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.



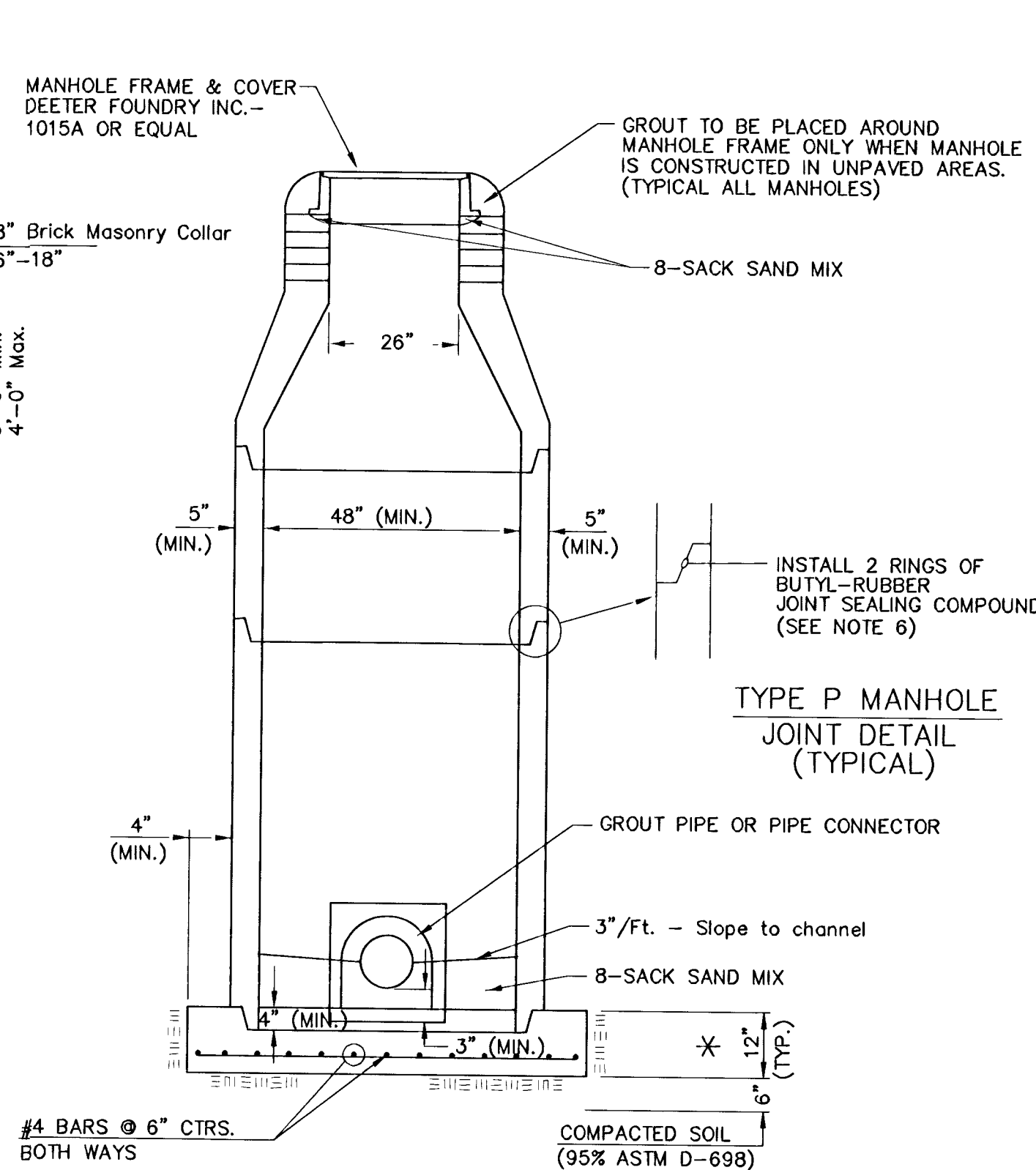
TYPE P
INSIDE DROP MANHOLE

- 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 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 MAHOLE. 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.



TYPE P
OUTSIDE DROP 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.
- ALL MANHOLE BASE CONSTRUCTION THAT OCCURS IN THE FIELD MUST HAVE A MINIMUM OF EIGHT INCHES OF CONCRETE BELOW THE MANHOLE WALL AND THE WALL SECTION SHOULD EXTEND FOUR INCHES INTO THE BASE RESULTING IN A MINIMUM TOTAL BASE THICKNESS OF 12 INCHES. MONOLITHIC BASE SECTIONS CONSTRUCTED IN THE FACTORY AND CURED AS PER ASTM C478 MUST HAVE A MINIMUM EIGHT INCH THICK CONCRETE BASE. BASE SECTIONS CONSTRUCTED IN THE FACTORY UTILIZING A PREVIOUSLY MANUFACTURED MANHOLE WALL SECTION, AS OUTLINED IN THE ABOVE PARAGRAPH, MUST HAVE A MINIMUM BASE THICKNESS OF EIGHT INCHES WITH THE WALL SECTION EXTENDING FOUR INCHES INTO THE BASE AND BE MANUFACTURED IN COMPLIANCE WITH ASTM C478.



SECTION X
(TYPICAL)

Revision	
No.	Date

ROOSEVELT LIBRARY / EDMOND PARK RELIEF SEWER
STANDARD TYPE P MH DETAIL
CITY OF WICHITA, KANSAS
NEIL CABLE, P.E. - CITY ENGINEER
C.O.W. Proj. No. 468-8372 Index Code 620391

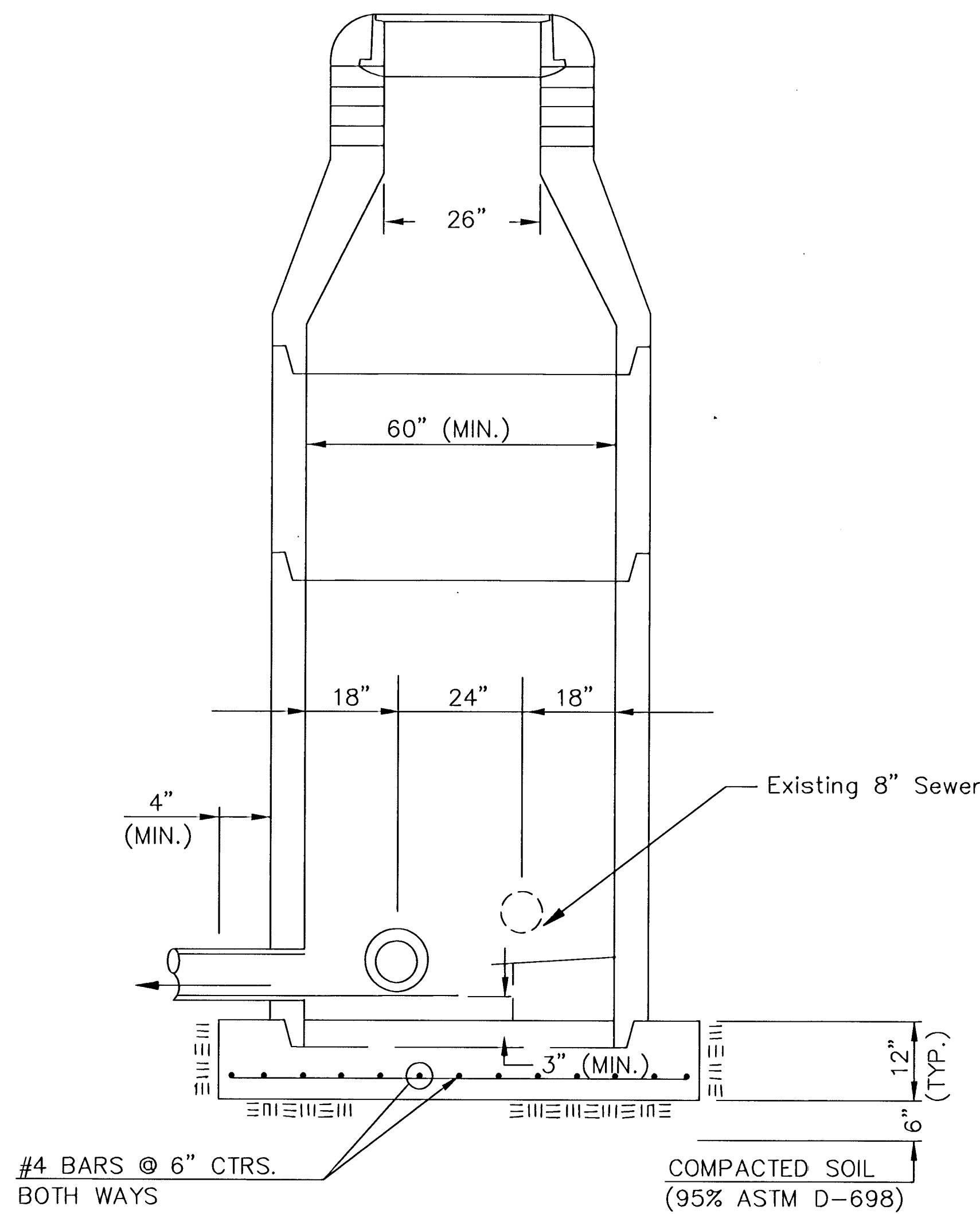
POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
5840 E. Central, Suite 200 ■ Wichita, KS 67208-4242
Phone 316685-4114 ■ FAX 316685-4444

POE

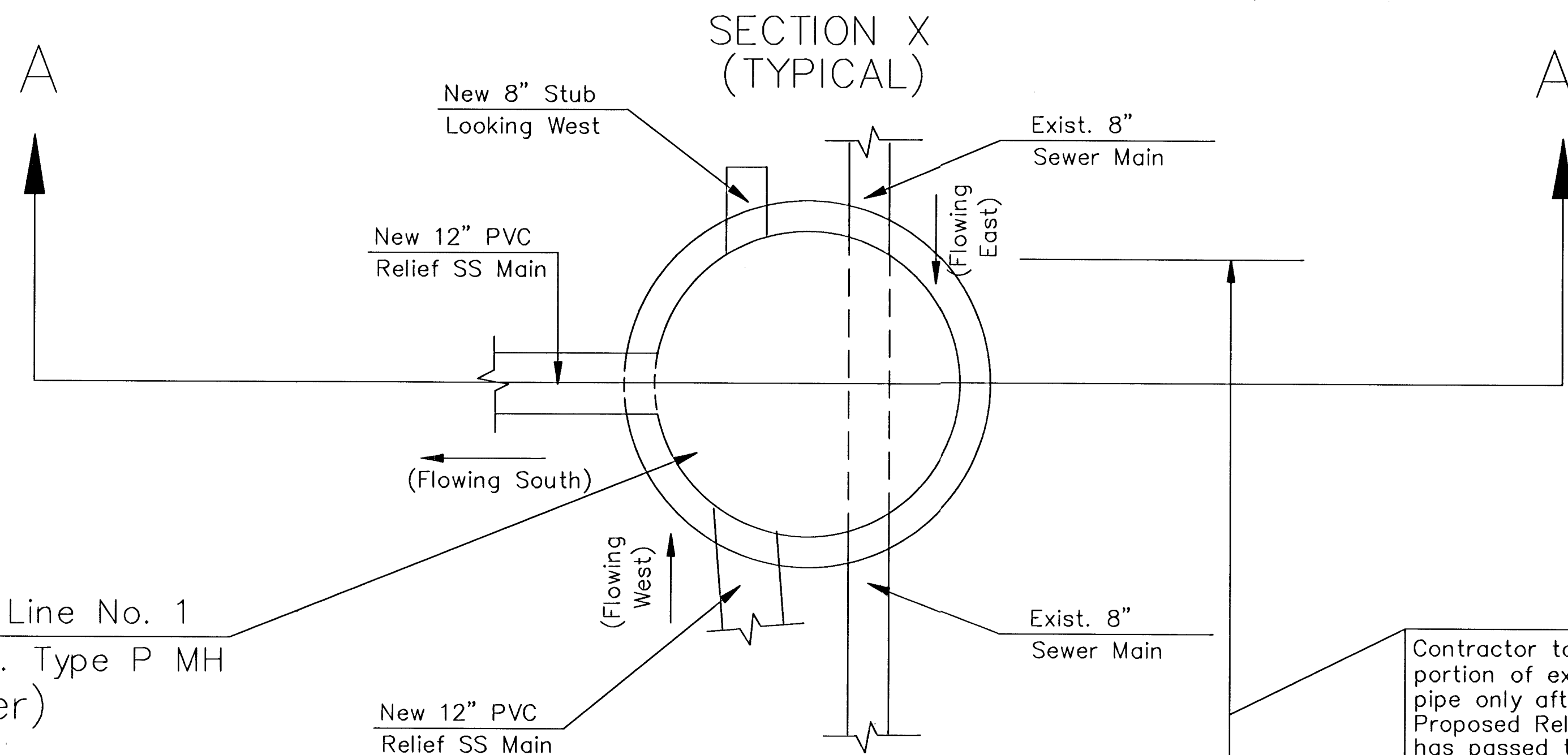
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Designed By: JMU
Drawn By: JMU/BK
Poe Job No.: 1782
Date: December 2003

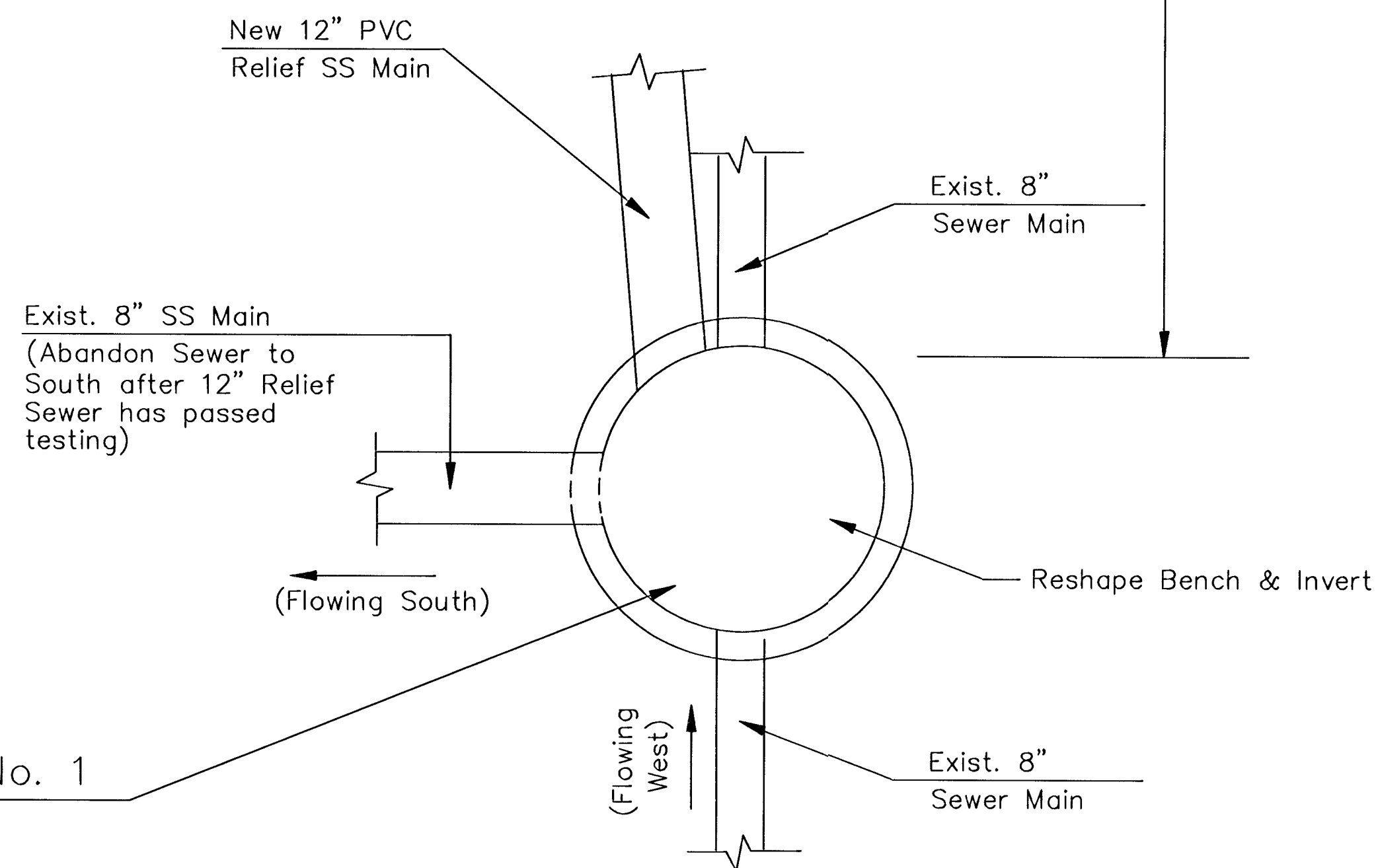
Sheet
5 of 9



Sta. 6+36.51 Line No. 1
Construct Std. Type P MH
(5' Diameter)



Contractor to abandon this portion of exist. 8" sewer pipe only after the Proposed Relief Sewer Main has passed testing and been accepted.



Sta. 6+72.77 Line No. 1
Existing MH

FINAL

Designed By: JMU
Drawn By: JMU/BK
Poe Job No.: 1782
Date: December 2003

Sheet
6 of 9

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CONSULTING ENGINEERS
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Phone 316/685-1114 ■ FAX 316/685-4444



ROOSEVELT LIBRARY / EDGEWOOD PARK RELIEF SEWER

SPECIAL MANHOLE DETAIL

CITY OF WICHITA, KANSAS

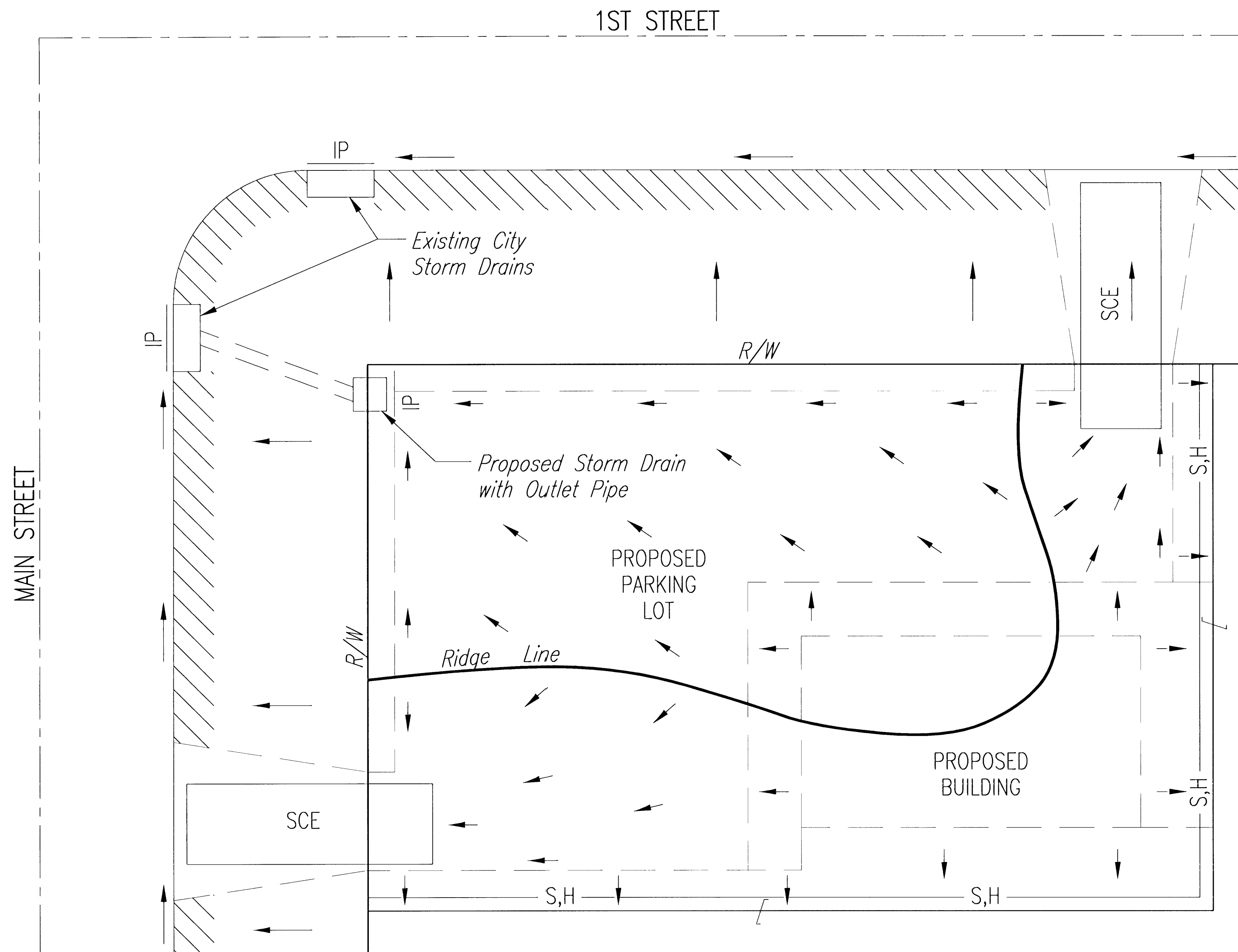
NEIL CABLE, P.E. - CITY ENGINEER

C.O.W. Proj. No. 488-83722 Index Code 620391

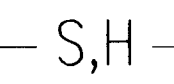
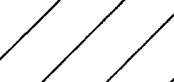
No. Date By APPROVED Revision

No.	Date	By	APPROVED	Revision

6. V:\PPS\DCAP\782\base.dwg Mod Jan 07 09:28:44 2004 Bernard Kullia, Poe & Associates of Kansas Inc.



LEGEND

-  Flow Direction
-  Inlet Protection – to be provided at all inlets subject to silt laden runoff.
-  Silt Fence or Hay Bale Barrier – to be installed along property lines where runoff from construction site can run onto other properties.
-  Stabilized Construction Entrance – to be used at all locations where vehicles or equipment enter or exit property.
-  Back of Curb Protection – to be installed whenever curb is backfilled to less than 3 inches from top and disturbed earth exists adjacent thereto. (See City Standard Details.)

General Notes

1. This standard detail sheet is a part of your building permit. The BMP's shown on this sheet are considered minimum standards. Whenever sediment enters the streets, storm sewers, ditches, or ponds, contractor will install additional BMP's, as needed, to correct the problem.
2. Follow these general principals on all commercial building sides.
3. The soil erosion BMP's shown hereon must be in place at all times during construction until such time as the site is re-established with paving or grass.
4. Failure to install, protect, and maintain BMP's are violations of Section 16.32 of the City Code and will subject the contractor to the penalties provided therein. Included with your permit is an orange "notice" sign that must be posted on-site in a conspicuous place at all times during construction. This sign is provided to assist you in the maintenance of BMP'S.
5. Back of Curb Protection: Can include hay bale, silt fence, or Curlex barrier, as shown on City BMP standard details. This BMP must remain in place until the area between the curb and right-of-way line has been permanently stabilized.
6. The General Contractor is responsible for the installation and maintenance of all BMP's.
7. Should the site abut a lake, BMP's will be installed to prevent sediment from entering the lake.
8. Any mud inadvertently tracked onto any street will be cleaned up by the general contractor at the end of each day's work.



SOIL EROSION BMPS COMMERCIAL DEVELOPMENT SITES

CHRISTOPHER M. CARRIER, P.E.
STORM WATER ENGINEER

FINAL

Designed By: JMU
Drawn By: JMU/BK
Poe Job No.: 1782
Date: December 2003

Sheet
8 of 9


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CONSULTING ENGINEERS
5940 E. Central, Suite 200 ■ Wichita, KS 67208-4242
Phone 316/685-4114 ■ FAX 316/685-4444

ROOSEVELT LIBRARY / EDGEWOOD PARK RELIEF SEWER

BMP DETAILS
CITY OF WICHITA, KANSAS
NEIL CABLE, P.E. – CITY ENGINEER
C.O.W. Proj. No. 468-83722 Index Code 620391

Revision
No. Date By. APPROVED

edgemoor park branch library addition
wichita, sedgwick county, kansas

STATE OF KANSAS SS
COUNTY OF SEDGWICK

I, John J. Hall, Land Surveyor in said State and County, hereby certify that I have surveyed and platted "EDGEWOOD PARK BRANCH LIBRARY ADDITION", to Wichita, Sedgwick County, Kansas, and the accompanying plat is a true and correct exhibit of such survey, being described as a tract of land located in the Southeast Quarter of Section 13, Township 27 South, Range 1 East of the Sixth Principal Meridian, Sedgwick County, State of Kansas, being more particularly described as follows:

BEGINNING at the Northeast corner of Edgemoor Park, said corner being 40.00 feet South of the Northeast corner of the West Half of the Southeast Quarter of said Section 13;

THENCE S 0° 00' W on the East line of said Park, a distance of 280.00 feet;

THENCE S 90° 00' W, parallel with the North line of said Park, a distance of 313.00 feet;

THENCE N 32° 00' W a distance of 48.30 feet to the Point of Curve, said curve to the right having a central angle of 10° 00' and a radius of 450.00 feet;

THENCE off said curve to the right, a distance of 78.54 feet to the Point of Tangency;

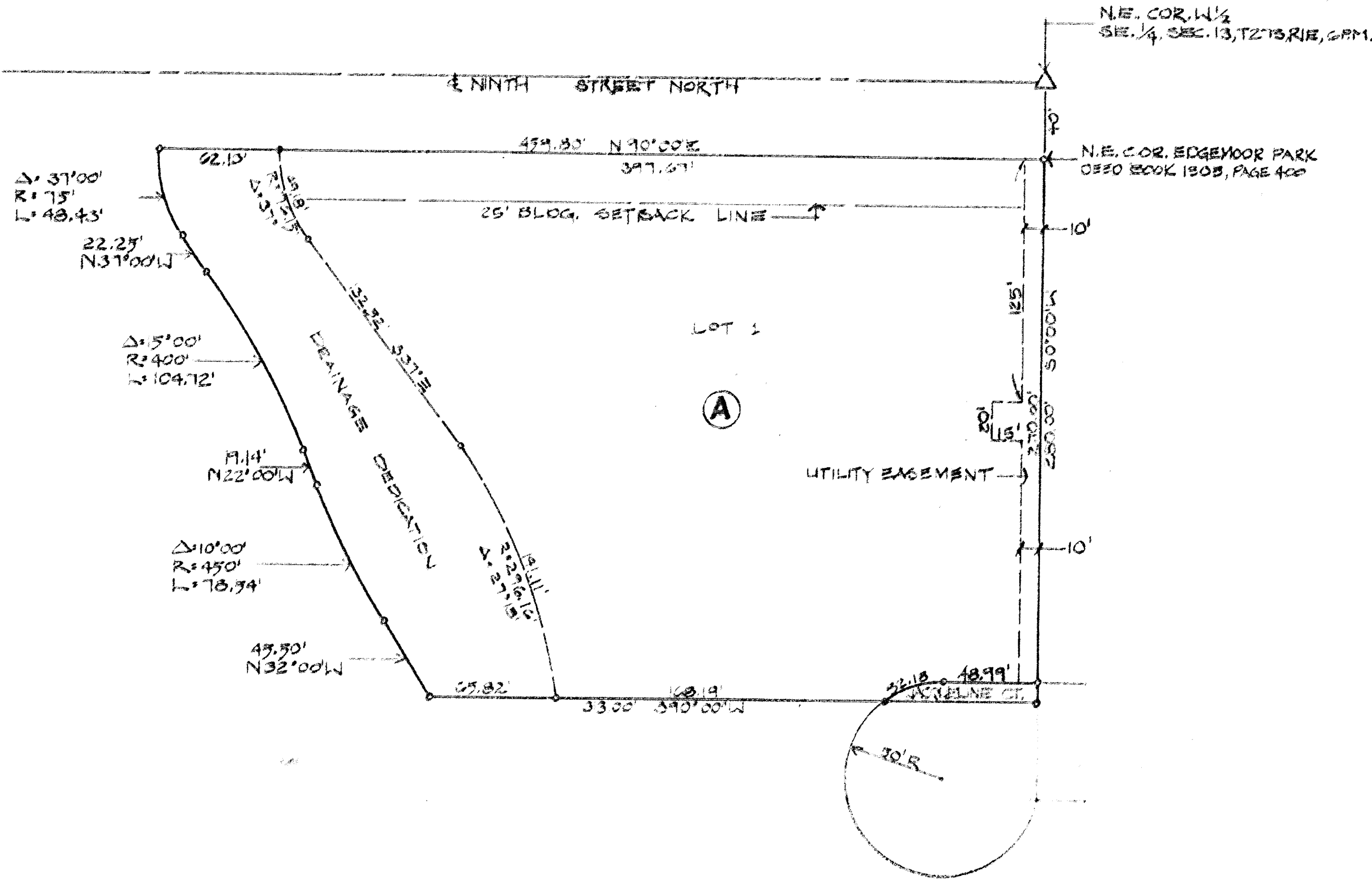
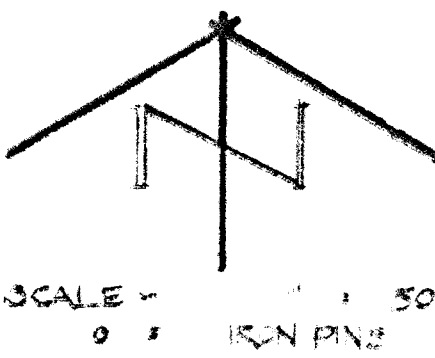
THENCE N 22° 00' W on the tangent of said curve, a distance of 19.13 feet to the Point of Curve, said curve to the left having a central angle of 15° 00' and a radius of 400.00 feet;

THENCE on said curve to the left, a distance of 104.72 feet to the Point of Tangency;

THENCE N 37° 00' W on the tangent of said curve, a distance of 22.25 feet to the Point of Curve, said curve to the right having a central angle of 37° 00' and a radius of 75.00 feet;

THENCE on said curve to the right, a distance of 48.43 feet to a Point on the North line of Edgemoor Park, said line being 40.00 feet South of and parallel with the North line of the West Half of said Southeast Quarter;

THENCE N 00° 00' E on said North line of Edgemoor Park a distance of 459.80 feet to the POINT OF BEGINNING.



STATE OF KANSAS
COUNTY OF SEDGWICK SS.

Know all men by these presents that the Wichita Public Library Board has caused the land described in the surveyor's certificate to be platted into a lot, block, and street to be known as "EDGEWOOD PARK BRANCH LIBRARY ADDITION", to Wichita, Sedgwick County, Kansas. The utility easement shown on the plat is hereby granted for construction and maintenance of all public utilities. The drainage right of way as indicated is hereby dedicated to the public. The street is hereby dedicated to and for the use of the public.

Wichita Public Library Board

Samuel E. Spaght Chairman
Lewis Farha Secretary

STATE OF KANSAS
COUNTY OF SEDGWICK SS.

The foregoing instrument was acknowledged before me this 10th day of March, 1975, by Samuel E. Spaght, Chairman, and Lewis Farha, Secretary, of the Wichita Public Library Board, on behalf of the Board.

My Commission Expires:

Dec. 23, 1977

Rita Goodwin
Notary Public

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

Dated this 27th day of February, 1975.

Wichita-Sedgwick County Metropolitan Area Planning Commission.

Harlan R. Kamen Chairman

Robert A. Lakin Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas.

John S. Starnes Vice Mayor

Donald C. Gluck City Clerk

This plat approved and all dedications shown hereon, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas.

Barry B. Rosen Chairman

Commissioner

Commissioner

George Pierce Clerk

STATE OF KANSAS SS
COUNTY OF SEDGWICK

This is to certify that this instrument was filed for record in the Register of Deeds Office at 2:00 P.M. on the 15th day of SEPTEMBER, 1975.

Bette P. McCart Register of Deeds

Deputy

Entered on Transfer Records this 15th day of SEPTEMBER, 1975.

George Pierce County Clerk

ROOSEVELT LIBRARY / EDGEWOOD PARK RELIEF SEWER

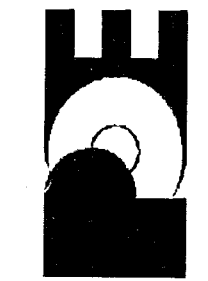
FINAL RECORDED PLAT

CITY OF WICHITA, KANSAS

NEIL CABLE, P.E. - CITY ENGINEER

C.O.W. Proj. No. 468-83722 Index Code 620391

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
5540 E. Central Suite 200
Wichita, KS 67208-4242
Phone 316/685-4114 FAX 316/685-4444



FINAL

Designed By: JMU

Drawn By: JMU/BK

Sheet

9 of 9

C-1 4-18

10-01-03-04