

SANITARY SEWER PLANS PRAIRIE WOODS ADDITION PHASE III

LATERAL 347, S.W.I.
PROJECT NO. 468 82464

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX CODE 743551

GENERAL NOTES

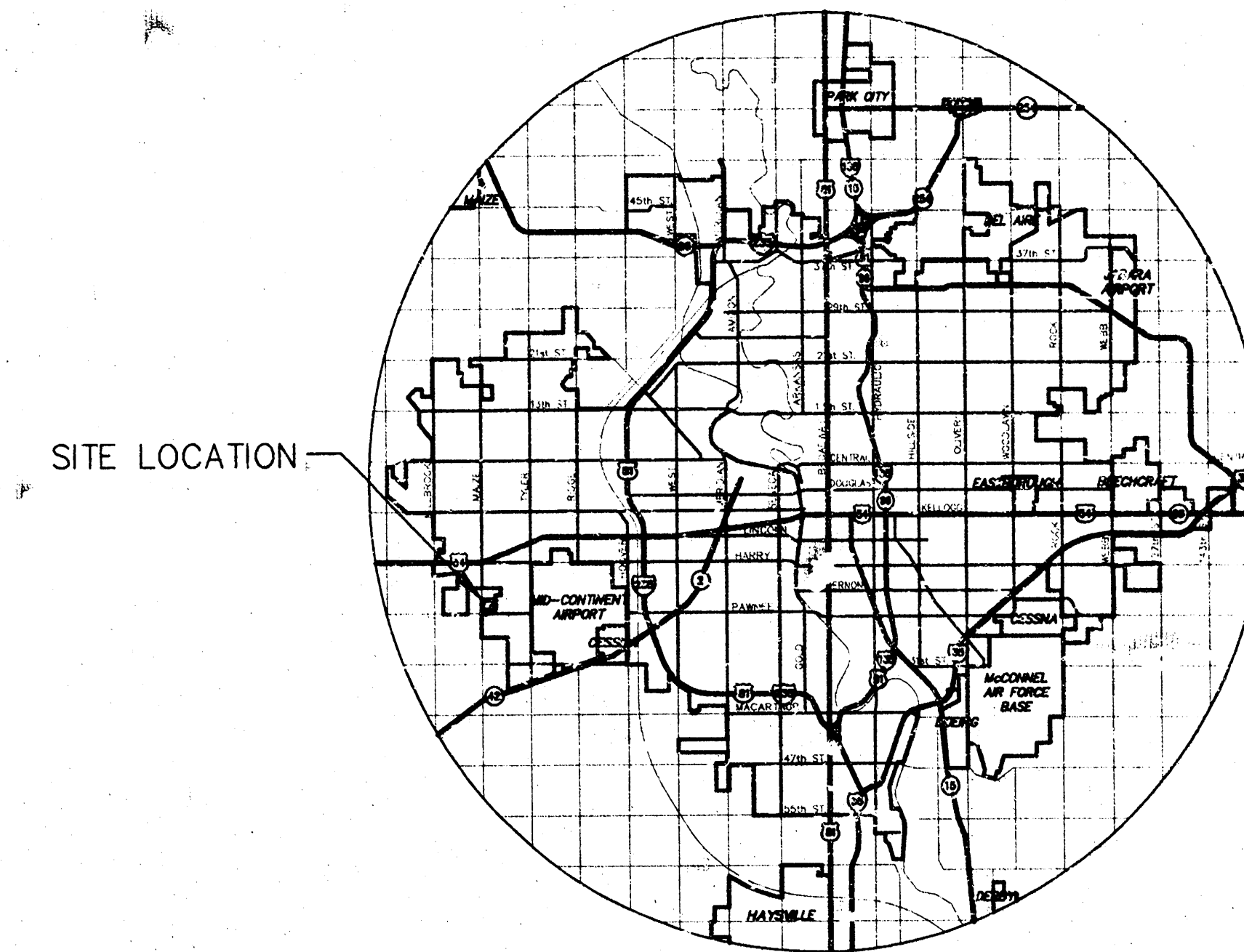
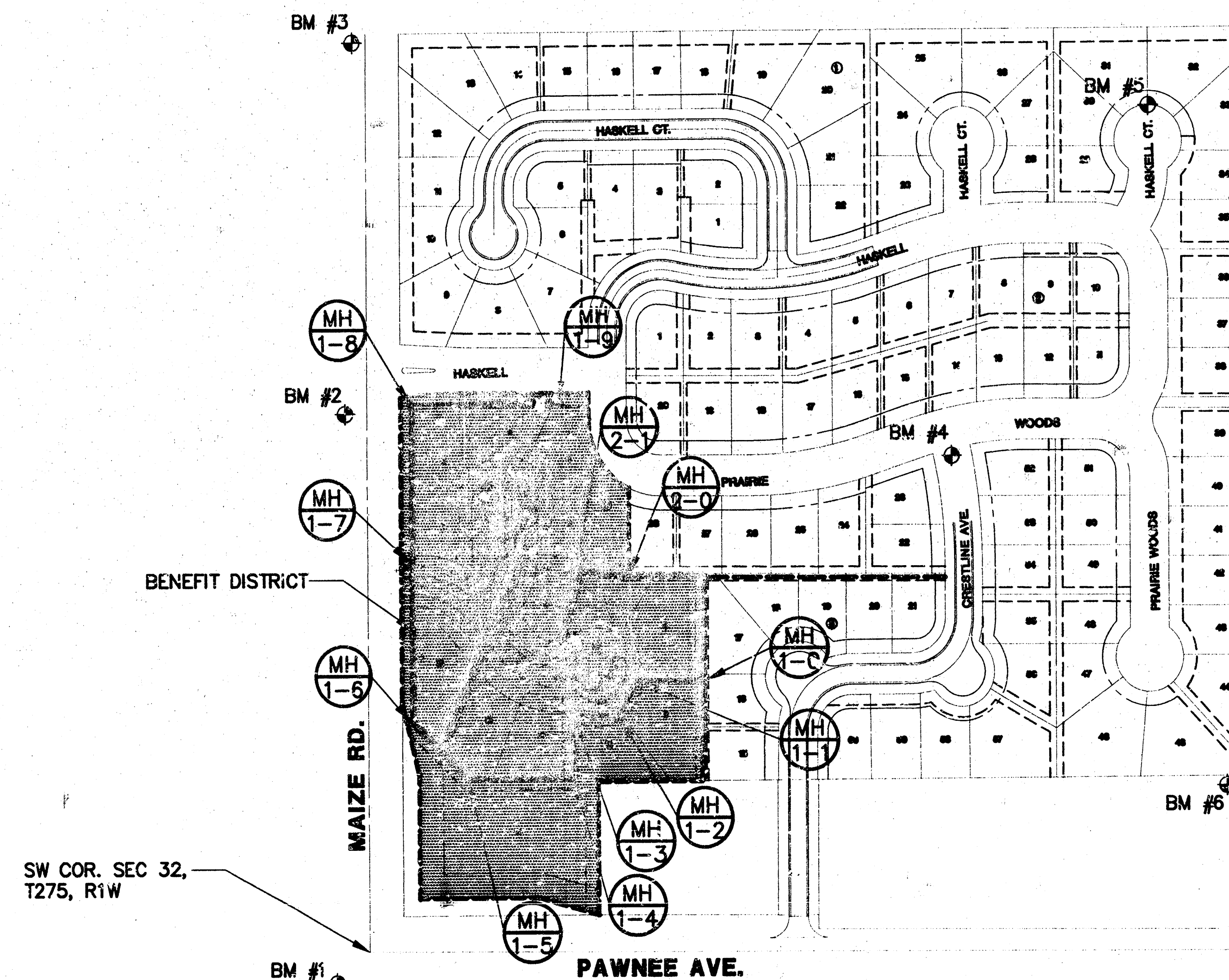
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
2. EXISTING 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 FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
3. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233
or 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7630
CABLEVISION 262-0661
K.G.B.C. (GAS & ELECTRIC) 383-9600
CITY OF WICHITA WATER & SEWER MAINTENANCE 268-4908

4. 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.
5. COST OF EXCAVATION, HAULING, AND DUMPING OF EXCESS EXCAVATION SHALL BE SUBSIDIARY TO THE PROJECT.
6. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDS SHALL BE CONSTRUCTED WITH A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.
7. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RISERS.
8. PRIOR TO LAYING SEWER LINES USING EXISTING STUBS IN EXISTING MANHOLES, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION, GRADE, AND ALIGNMENT OF EXISTING STUBS AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLAN. WHERE CONNECTION TO AN EXISTING MANHOLE THAT DOES NOT HAVE AN EXISTING STUB OR THE STUB IS UNUSABLE DUE TO ELEVATION GRADE OR ALIGNMENT, THE CONTRACTOR SHALL RESHAPE THE EXISTING MANHOLE INVERT TO PROVIDE SMOOTH FLOW. THE COST OF RESHAPING EXISTING MANHOLE INVERTS IS INCIDENTAL TO THE PROJECT.
9. 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. COST OF REMOVAL AND PROTECTION SHALL BE SUBSIDIARY TO SITE CLEARING RESTORATION.
10. ALL DISTURBED AREAS TO BE SEEDED WITH RYE GRASS AT A RATE OF 200LBS./ ACRE WITHIN 10 DAYS OF CONSTRUCTION. COST SHALL BE SUBSIDIARY TO SITE CLEARING AND RESTORATION.



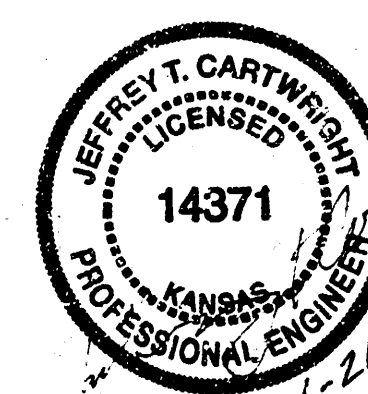
LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	DETAILS
4	LINE 1
5	LINE 1 & 2
6	FINAL PLAT

BENCHMARK

- BM #1 C.O.W. BM DISK 44'S & 50'W OF THE INTERSECTION OF MAIZE AND PAWNEE ELEV. = 135.12
- BM #2 TOP OF STEEL "T" POST 5' FROM IP SW COR. HASKELL ROAD ELEV. = 137.87
- BM #3 "C" CUT ON WEST SIDE OF MAIZE ROAD ON SOUTH R.C.P. ELEV. = 138.93
- BM #4 TOP OF STEEL "T" POST 5'S. & 5'W. OF SW COR. OF PRAIRIE WOODS & CRESTLINE ELEV. = 125.69
- BM #5 TOP OF STEEL "T" POST 5' N. OF PROP. COR., N. POINT OF HASKELL CT. (EAST) ELEV. = 125.69
- BM #6 STEP SPIKE IN 6" HACKBERRY TREE 26' W. OF SE. COR OF PLAT ELEV. = 128.22
- BM #7 "C" CUT ON TOP CURB 15' S. & 4' W. OF FIRE HYD. SE. COR PAWNEE & YELLOWSTONE ELEV. = 122.67

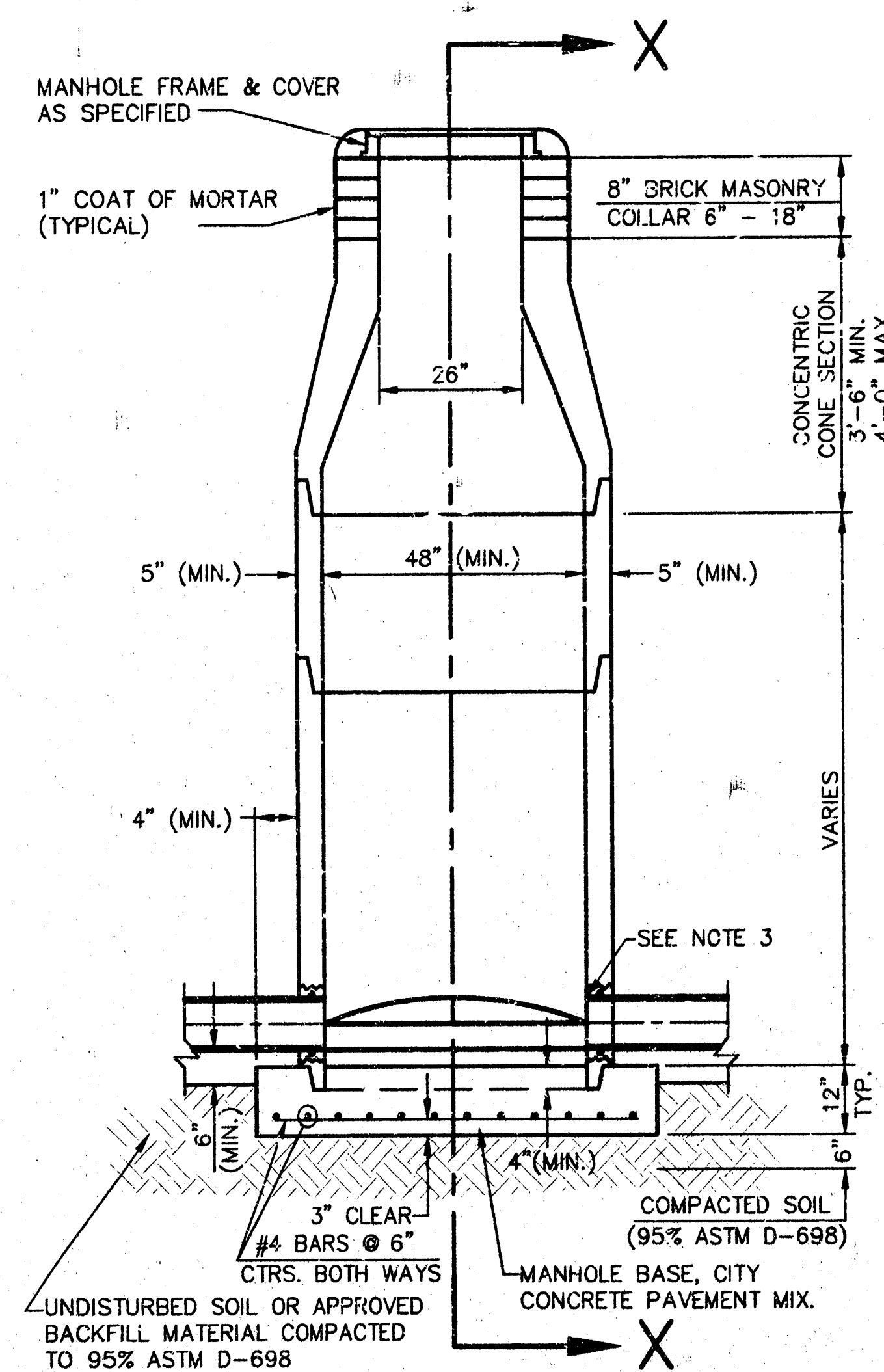


*Booked
P-11
6-10-96
AS BUILT
R. Loomis*

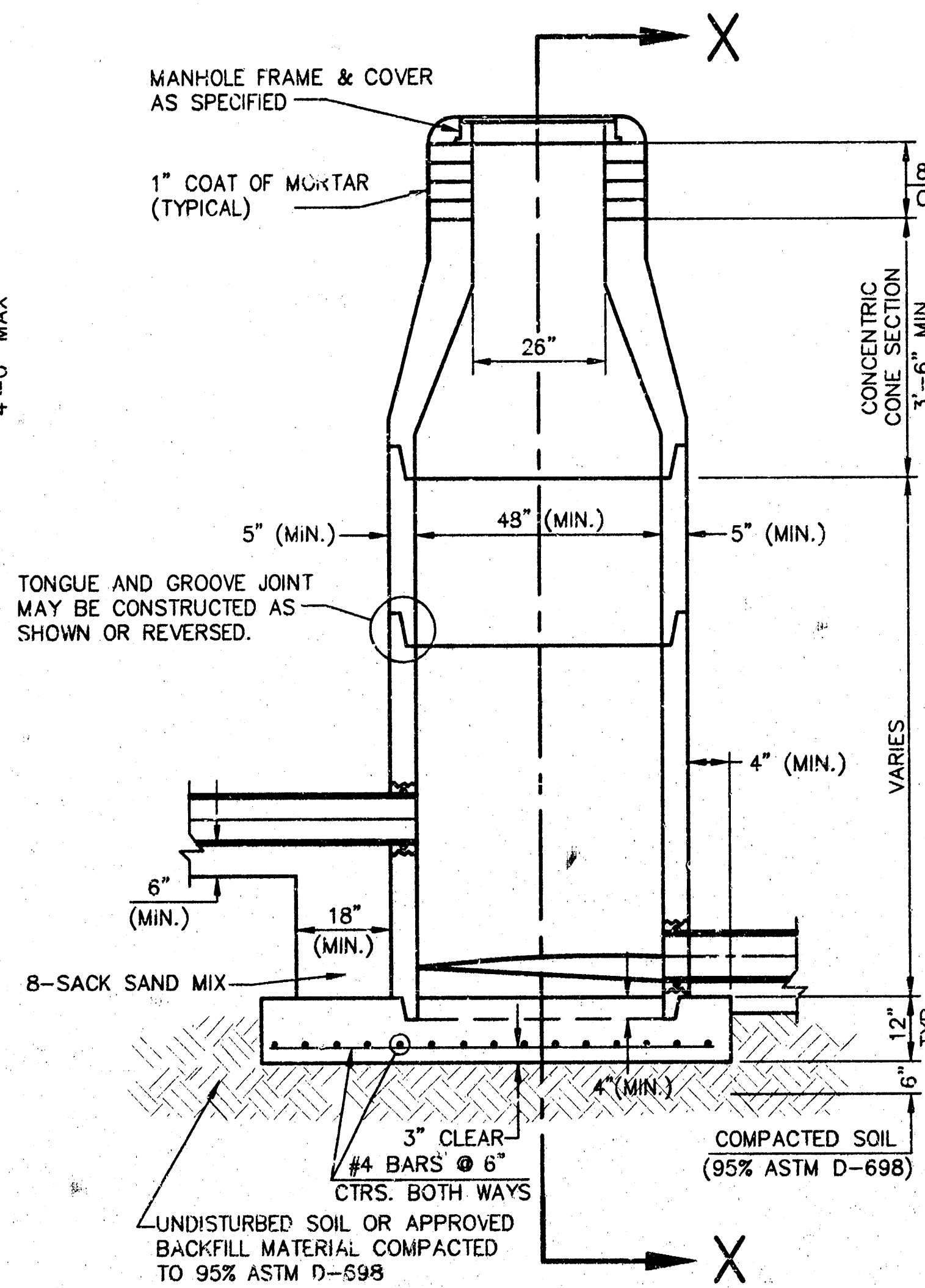
PRAIRIE WOODS ADDITION PHASE III PROJECT NAME			
TITLE SHEET SHEET TITLE			
G.J.A. DESIGN BY:	K.L.H./B.D.L. DRAWN BY:	G.J.A. CHECKED BY:	1 / 6 SHEET OF
JAN. 1998 DATE		87172-BT JOB NO.	
316-684-9600 MID-KANSAS ENGINEERING CONSULTANTS, INC. 411 N. WEBB ROAD WICHITA, KS. 67206			

SEWER APPURTENANCES DETAILS

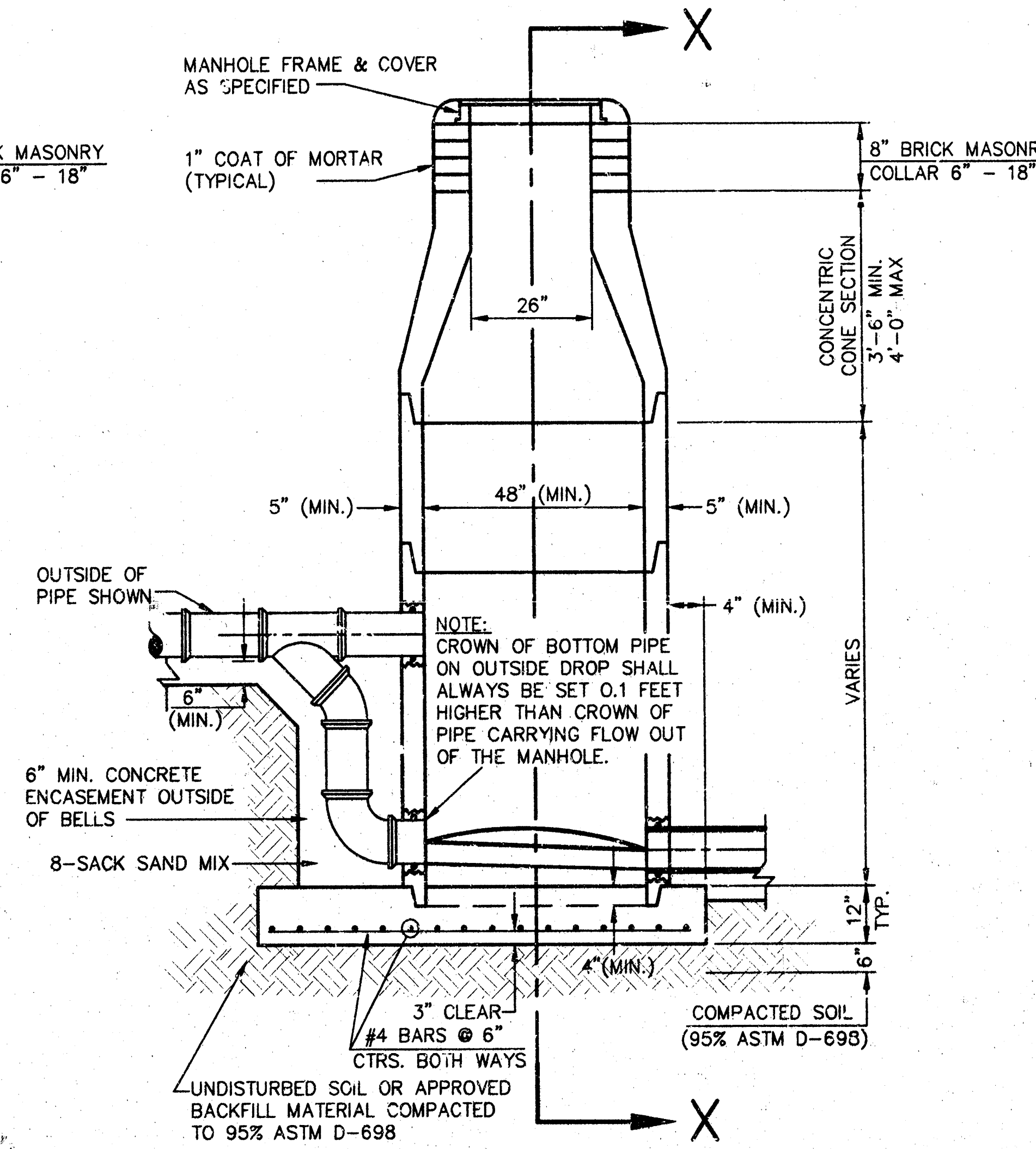
ADOPTED AS STANDARD DESIGN
BY
CITY OF WICHITA



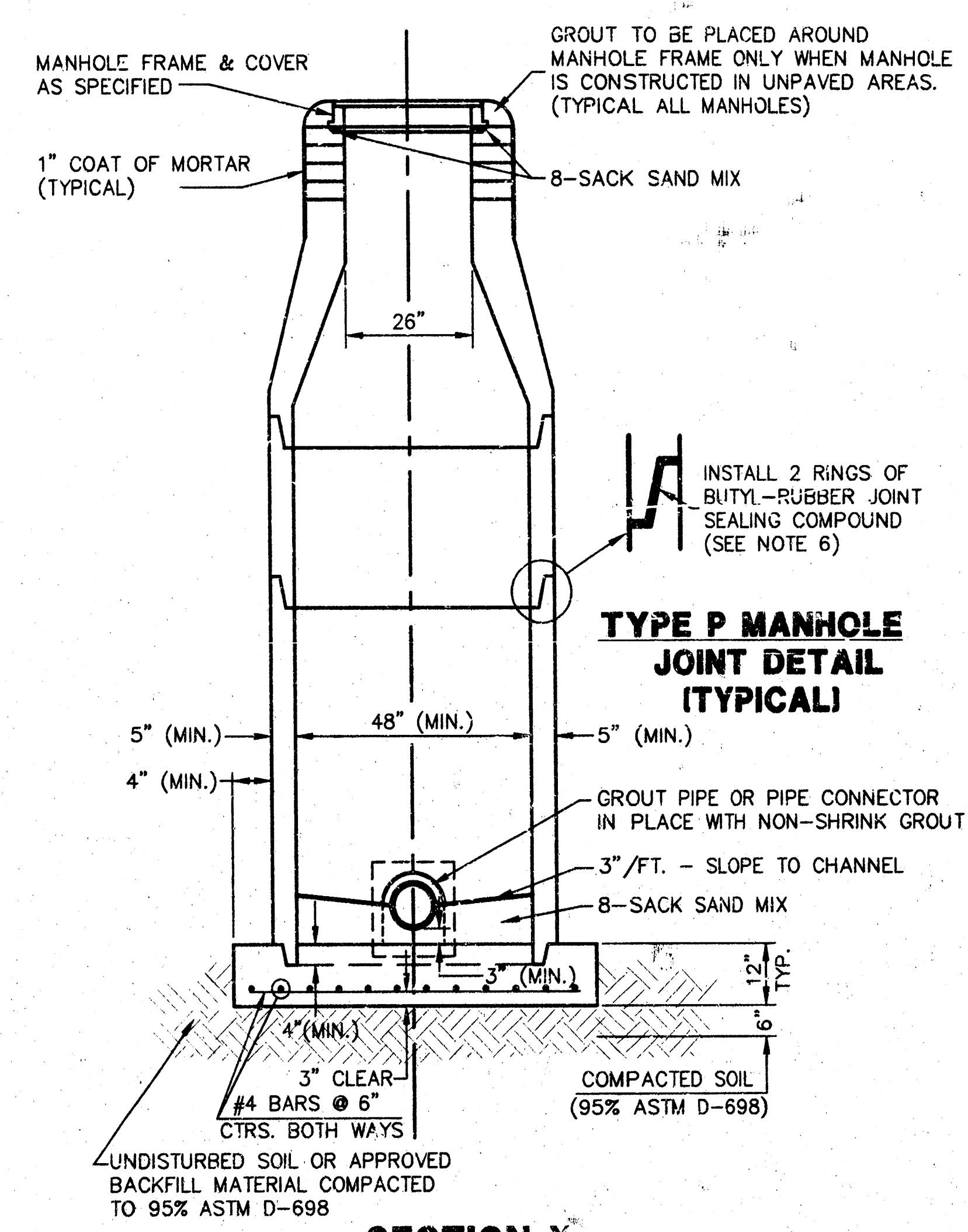
**TYPE P
STANDARD MANHOLE**



**TYPE P
INSIDE DROP MANHOLE**



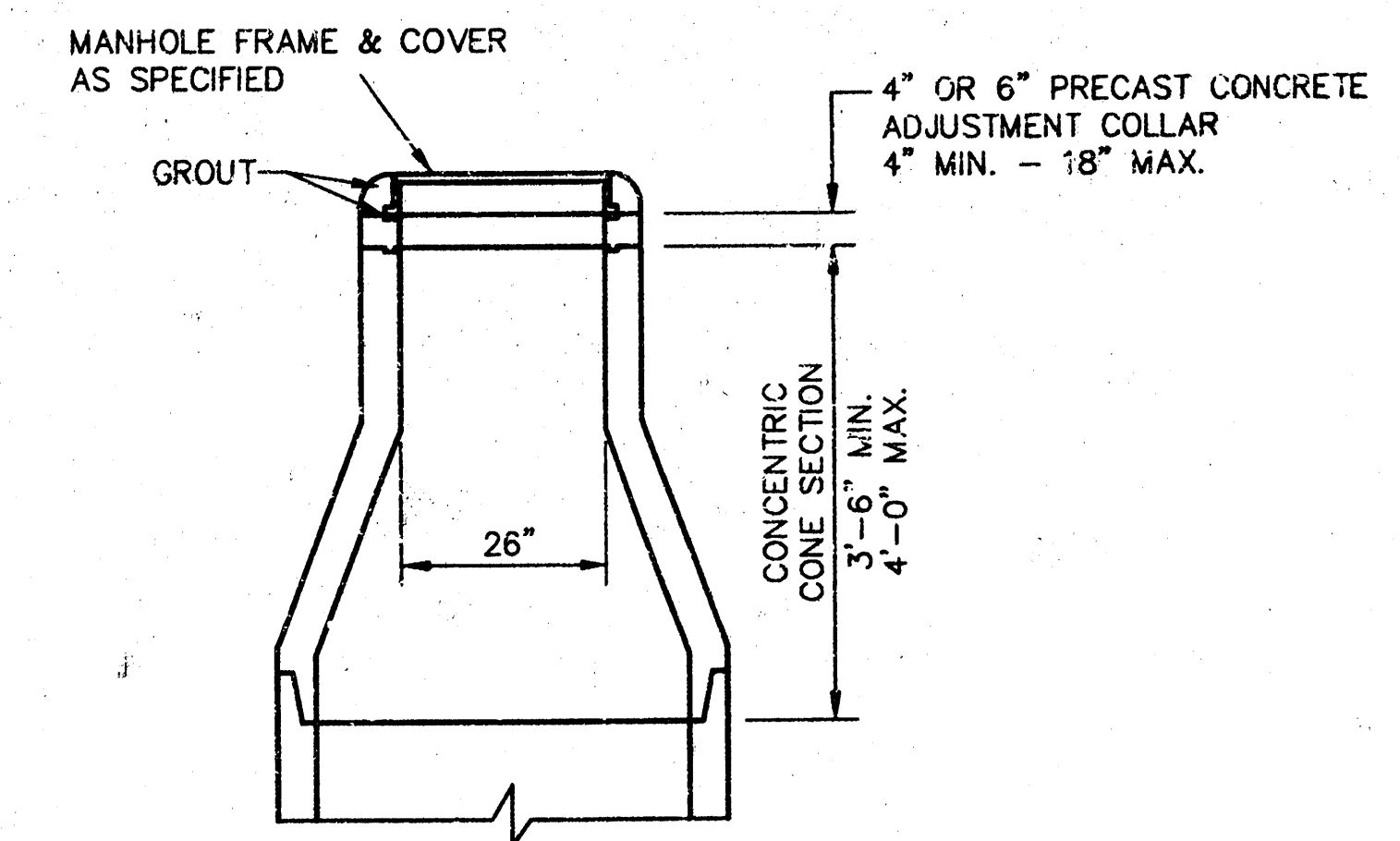
**TYPE P
OUTSIDE DROP MANHOLE**



**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 SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASUREMENT 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 TNEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINUS 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.
- 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 BITUMINUS 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 GRADIED 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. 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 7" VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR.



**ALTERNATE CONSTRUCTION
IN UNPAVED AREAS**

REVISED: 6-12-88

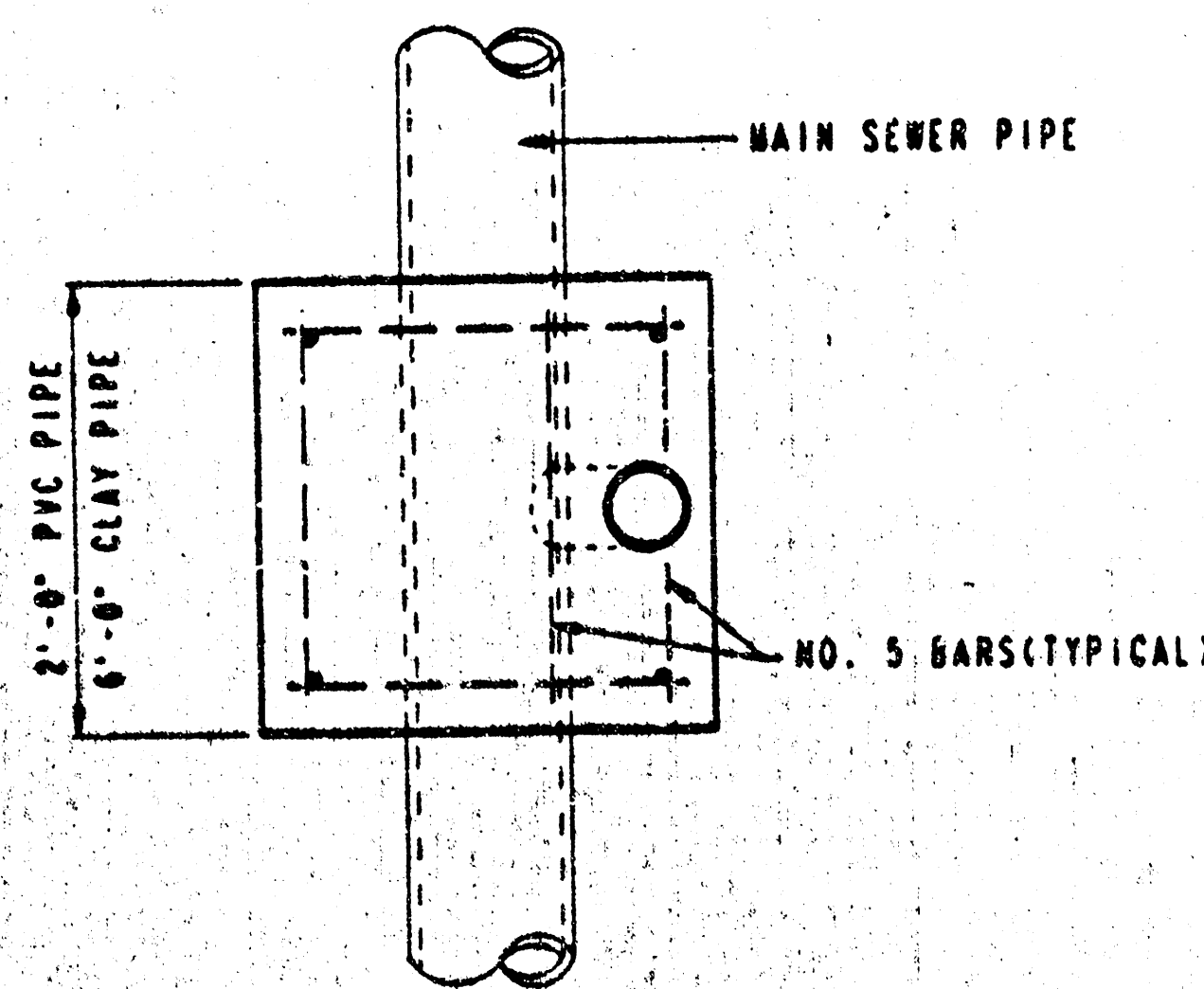
MANHOLE DETAILS

CITY OF WICHITA, KANSAS

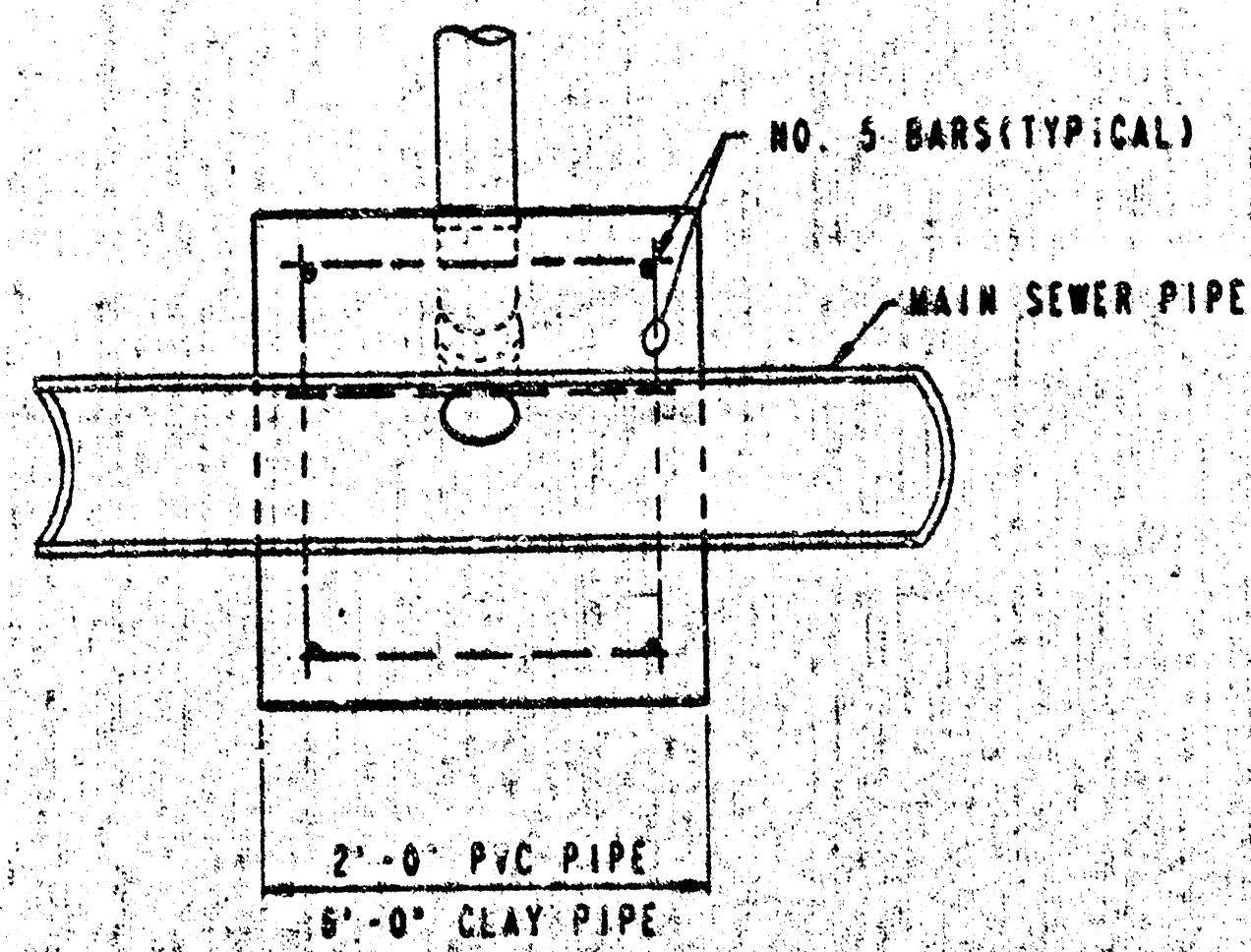
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Design	C.O.W.	Checked by	Checked by
Drawn by	Date	Date JAN 1998	Job No. 97172-BD

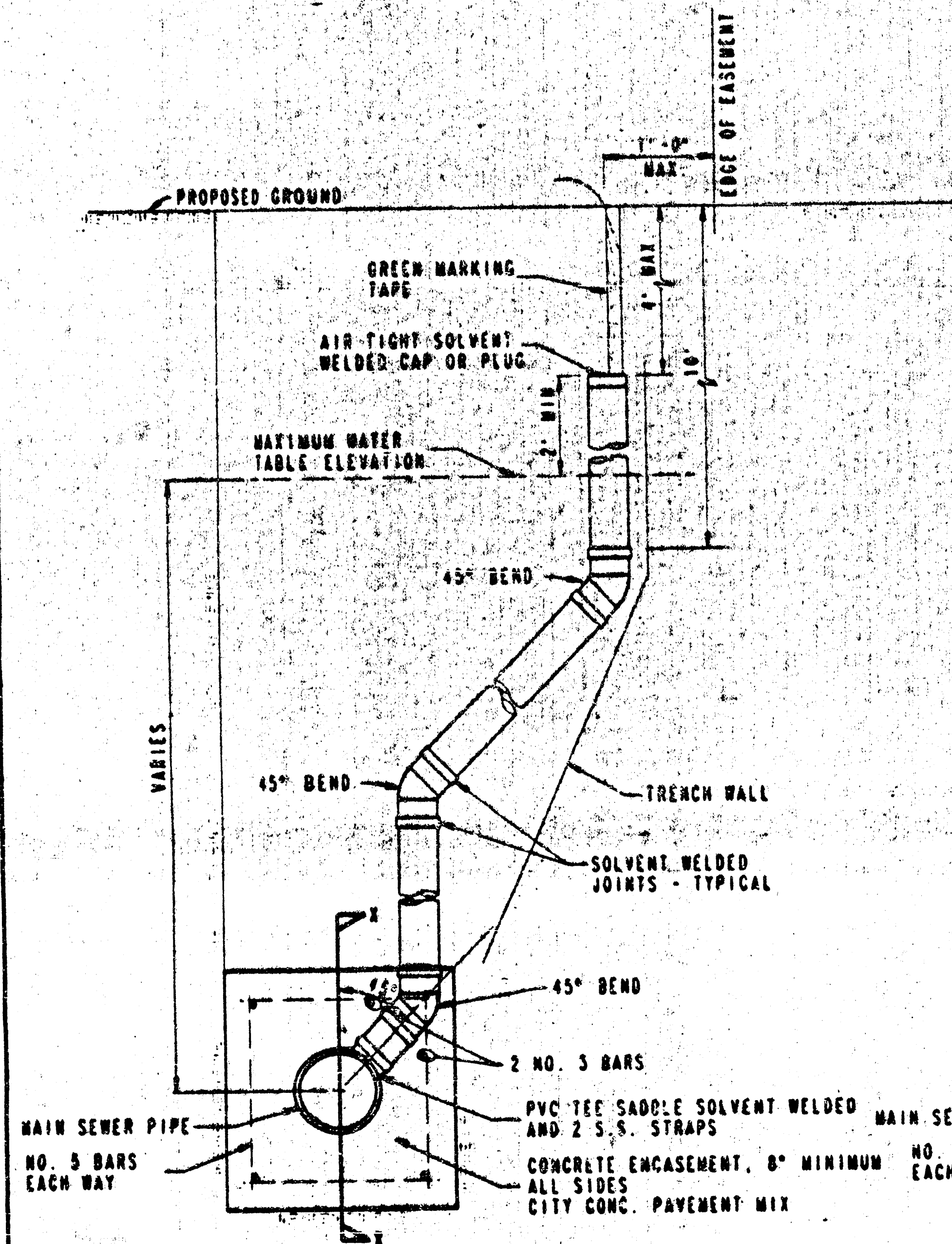
OCTOBER 1992



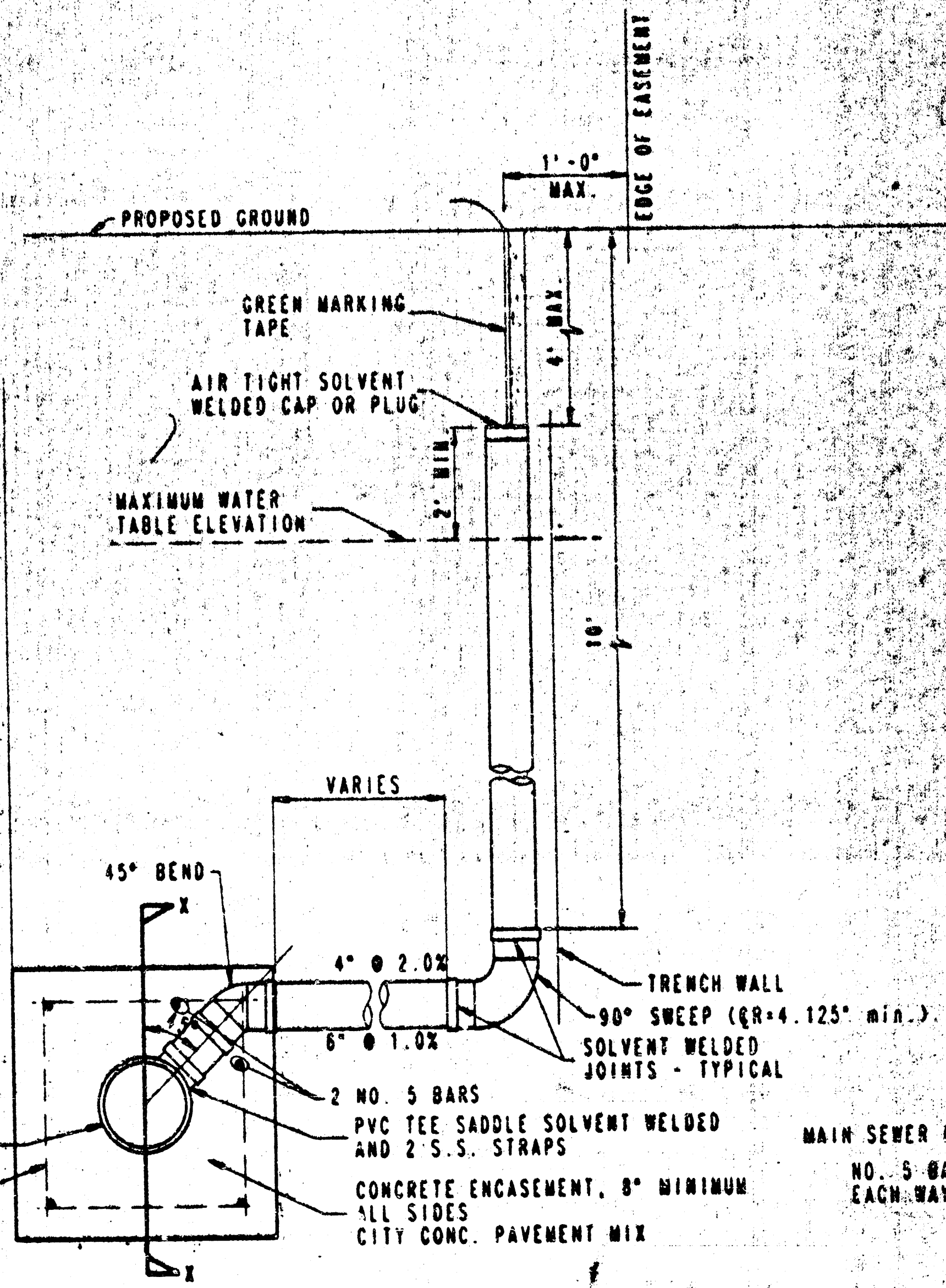
TYPICAL PLAN VIEW



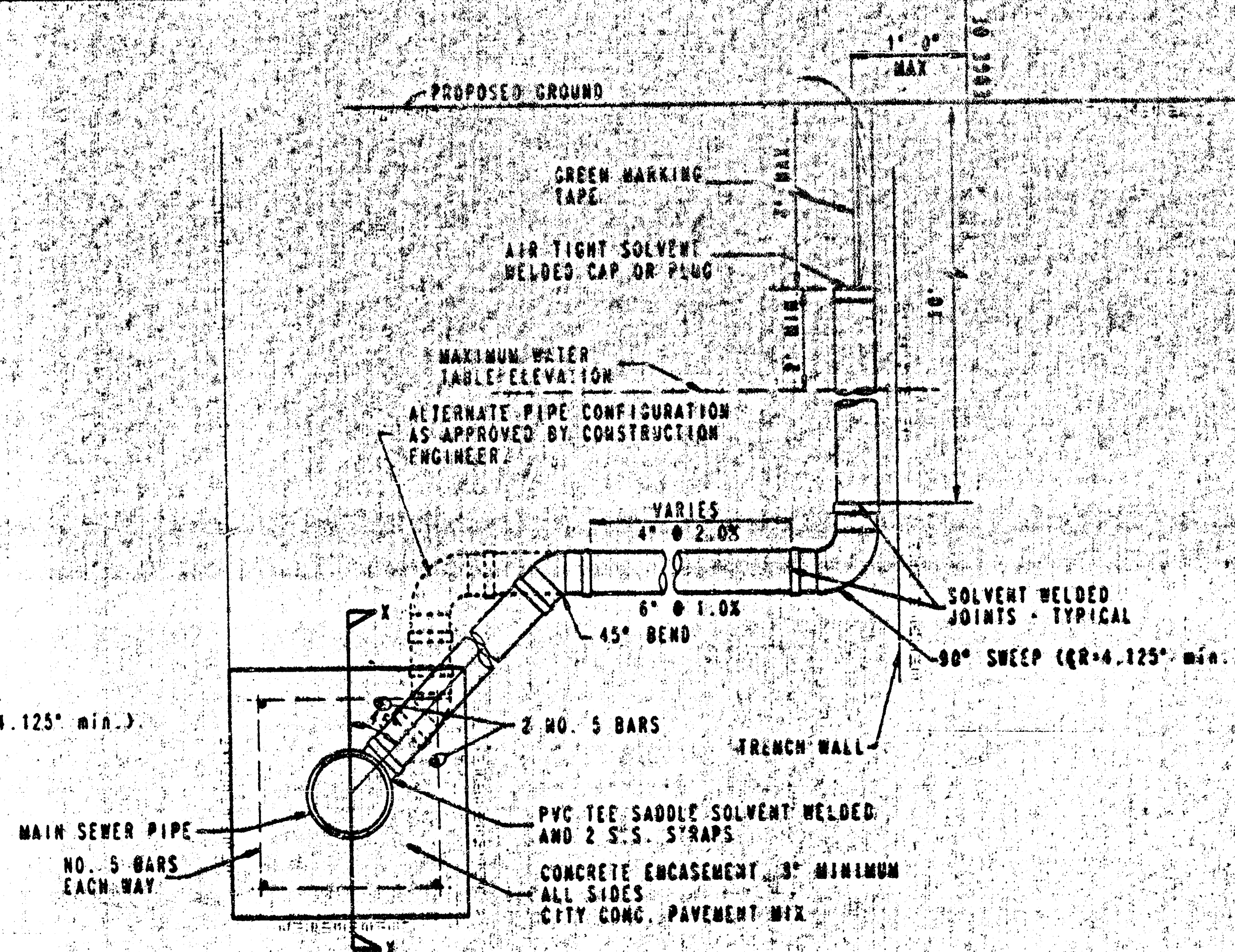
TYPICAL SECTION X-X



METHOD "A"



METHOD "B"

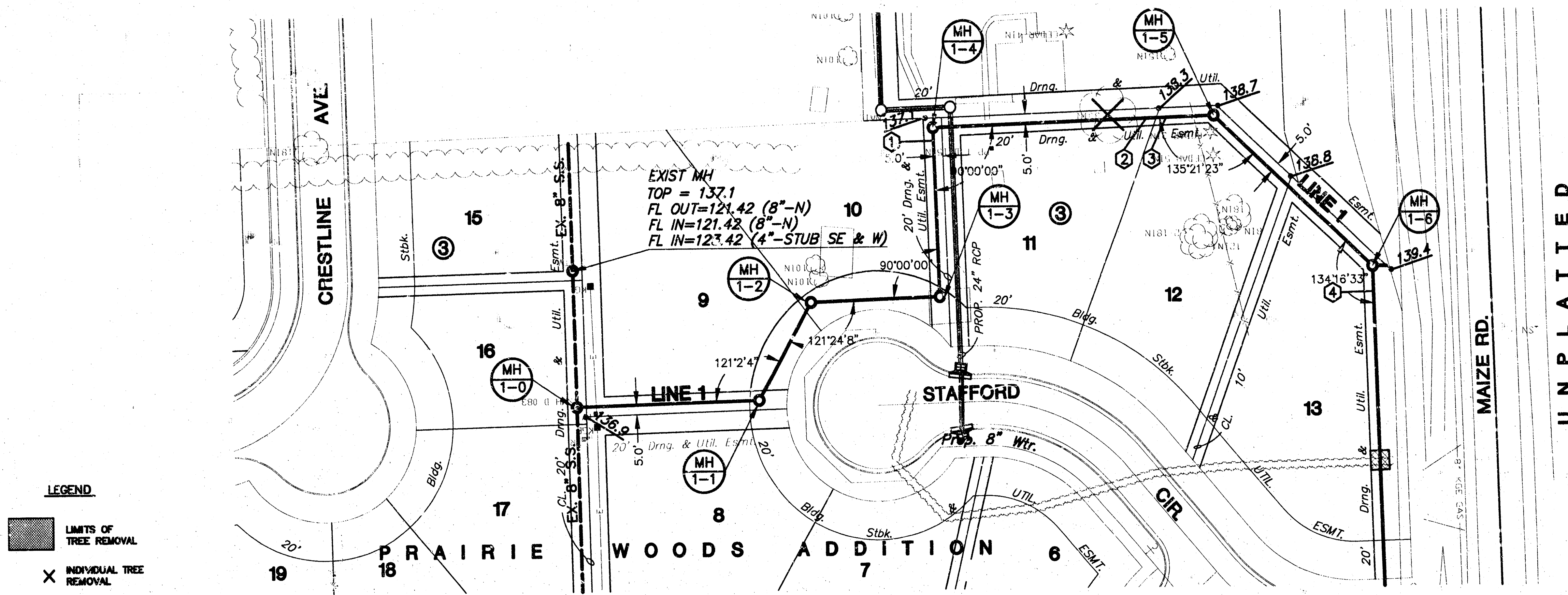


METHOD - C-

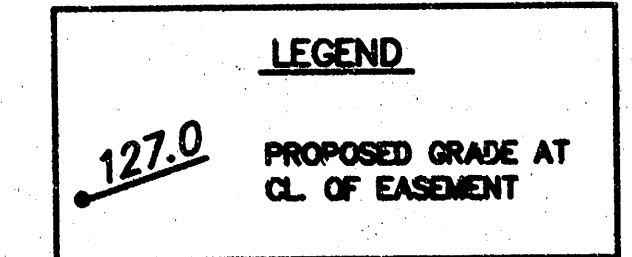
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NOTE: RISER PIPE REQUIREMENTS AT MANHOLE STUBS SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

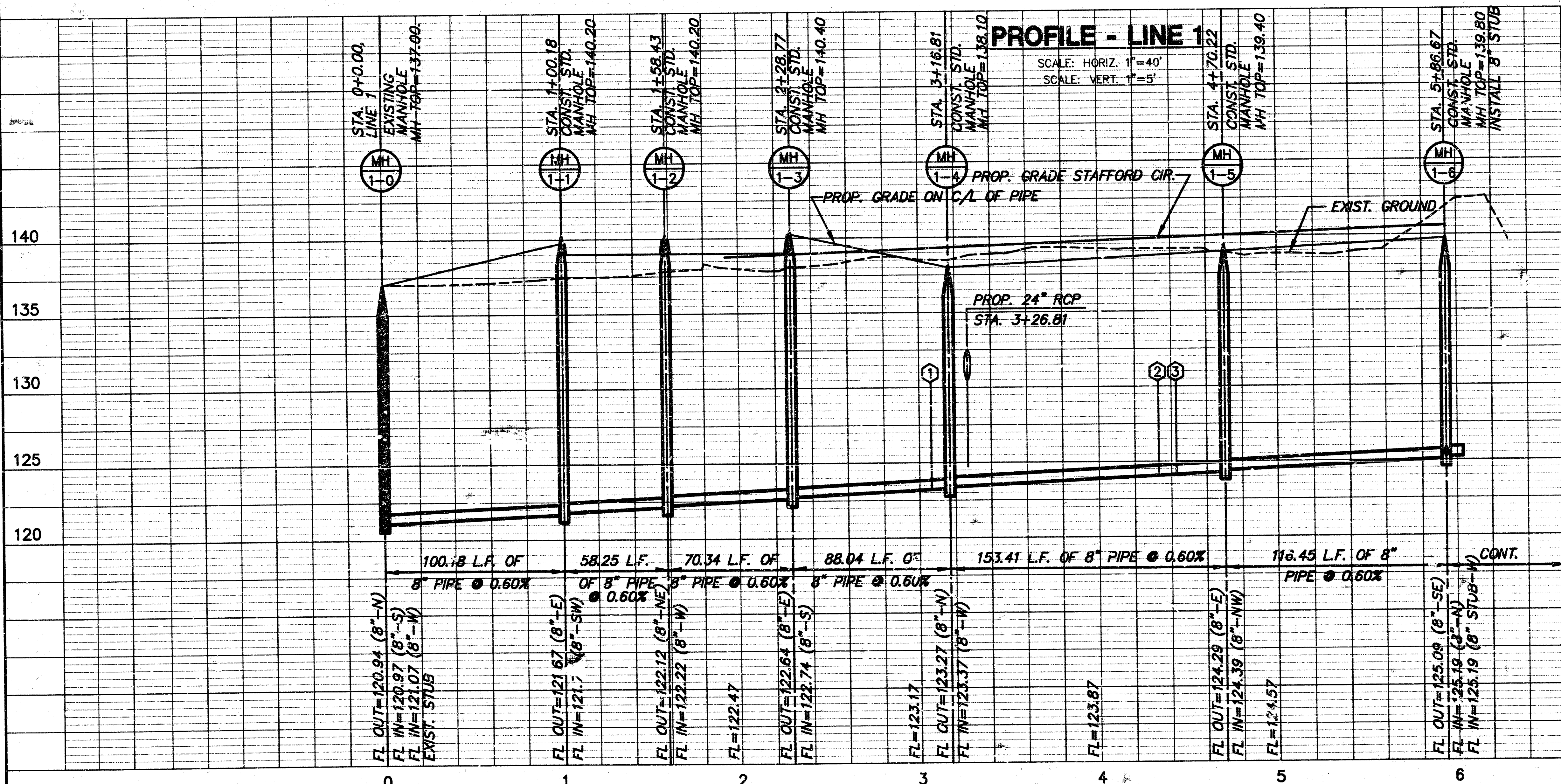
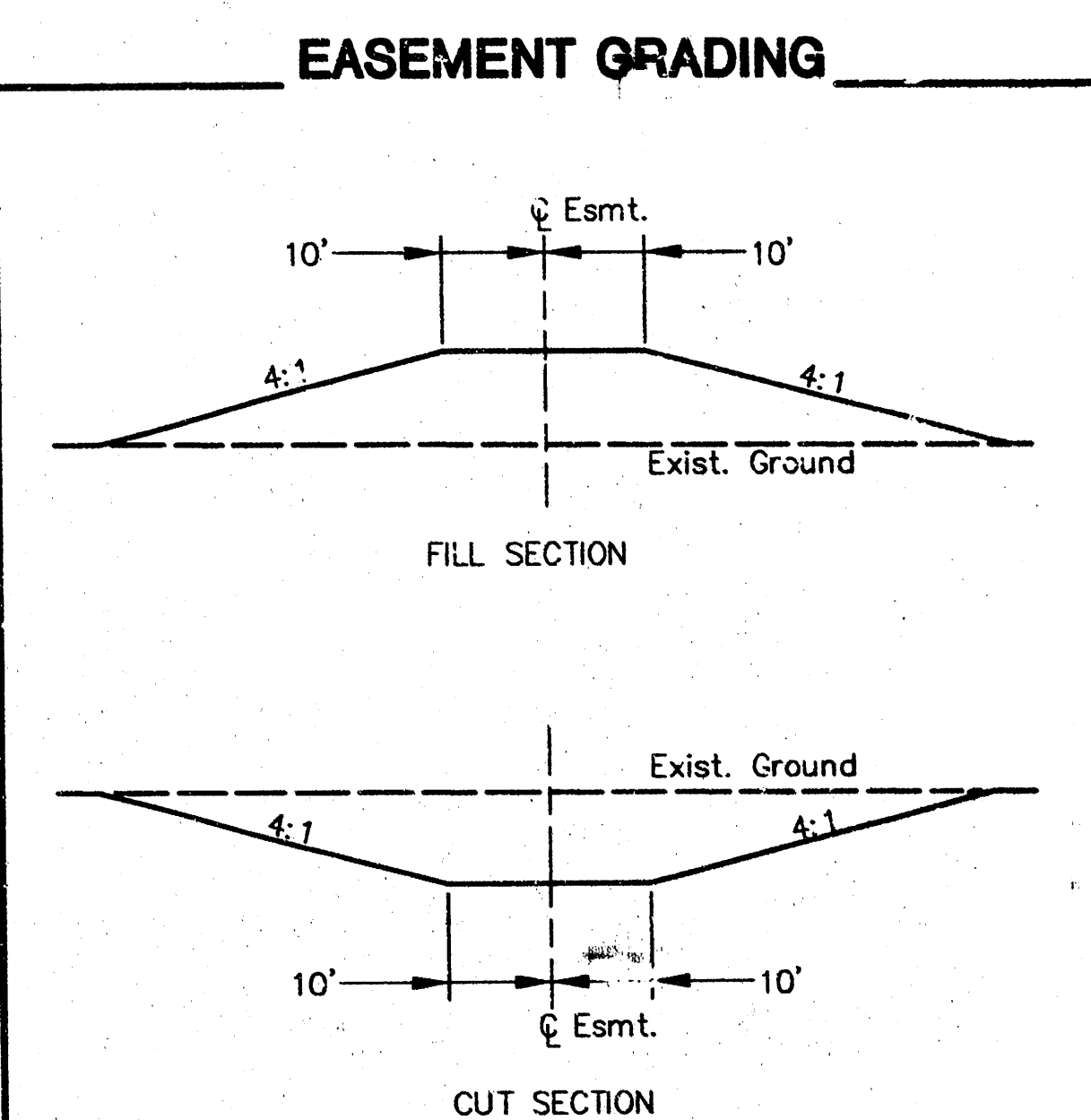
PRAIRIE WOODS ADDITION
PHASE III - LATERAL 347, S.W.
PROJ. NO. 488-82464



PLAN - LINE 1
SCALE: 1"=40'

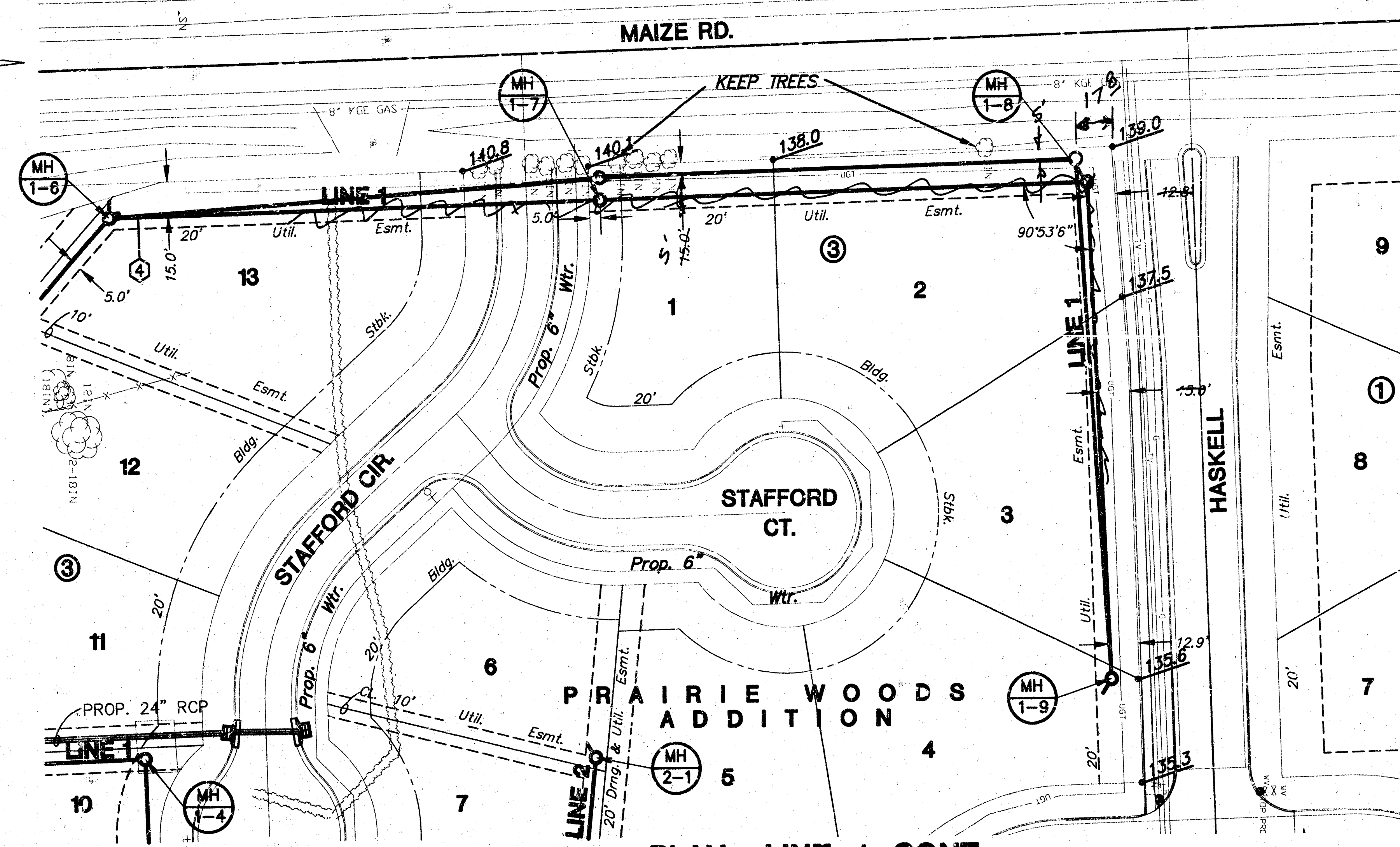


NOTE:
REGRADE EASEMENT FROM
MH 1-0 TO MH 1-6
FOR INFORMATION ONLY:
CUT=60 C.Y.
FILL=192 C.Y.



SEWER SERVICE TABLE FOR PRAIRIE WOODS ADDITION						
NO.	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT	BLOCK	LINE	APPROXIMATE LENGTH	4" PIPE
		NO.	NO.	NO.	VERTICAL	HORIZONTAL
1	8" x 4" Tee Saddle	10	3	1	2.10/RT	5
2	8" x 4" Tee Saddle	11	3	1	4.13/RT	5
3	8" x 4" Tee Saddle	12	3	1	4.43/RT	5
4	8" x 4" Tee Saddle	13	3	1	6.00/RT	5

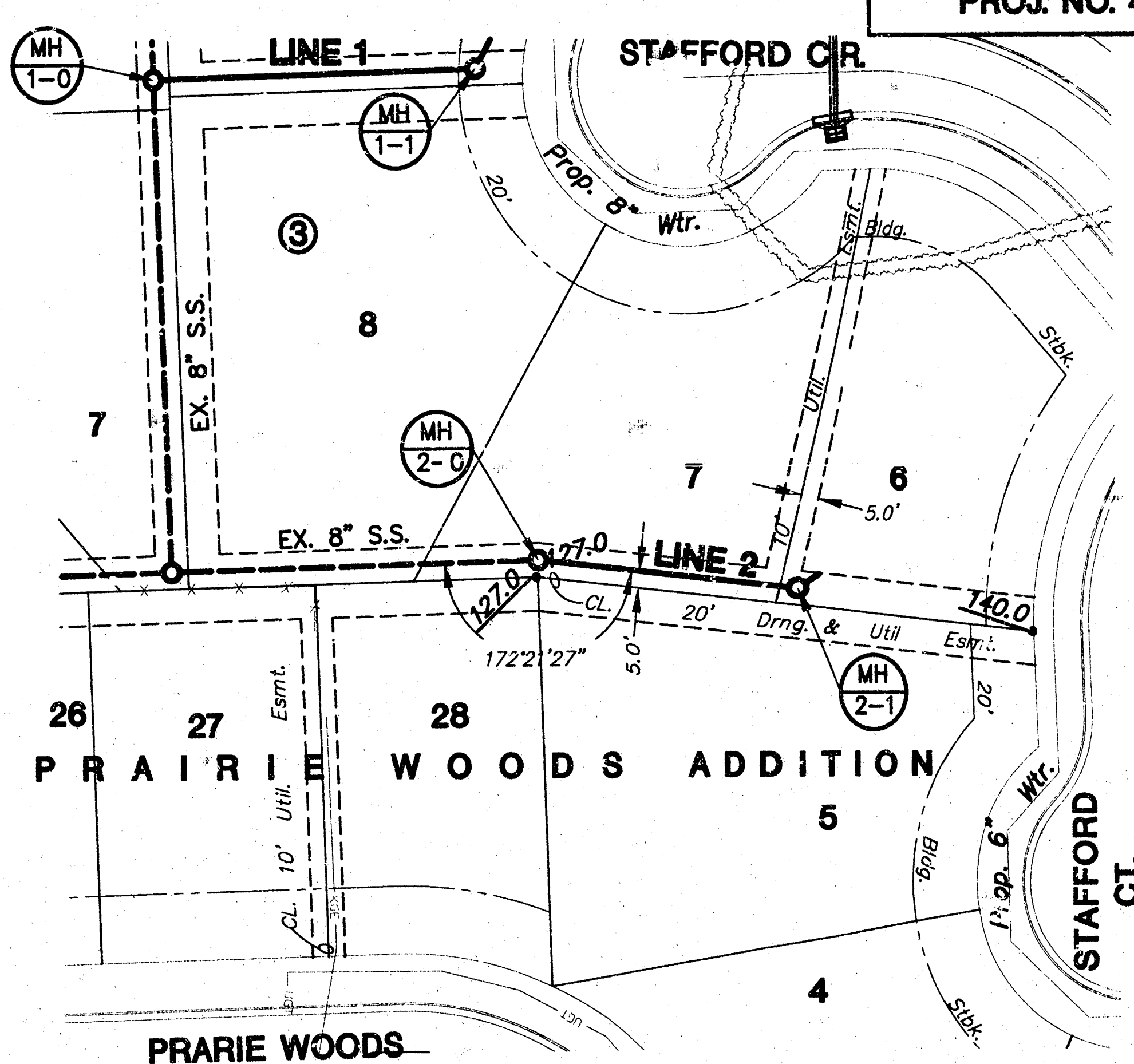
PRAIRIE WOODS ADDITION
PHASE III - LATERAL 347, S.W.
PROJ. NO. 468-82464



PLAN - LINE 1 CONT.

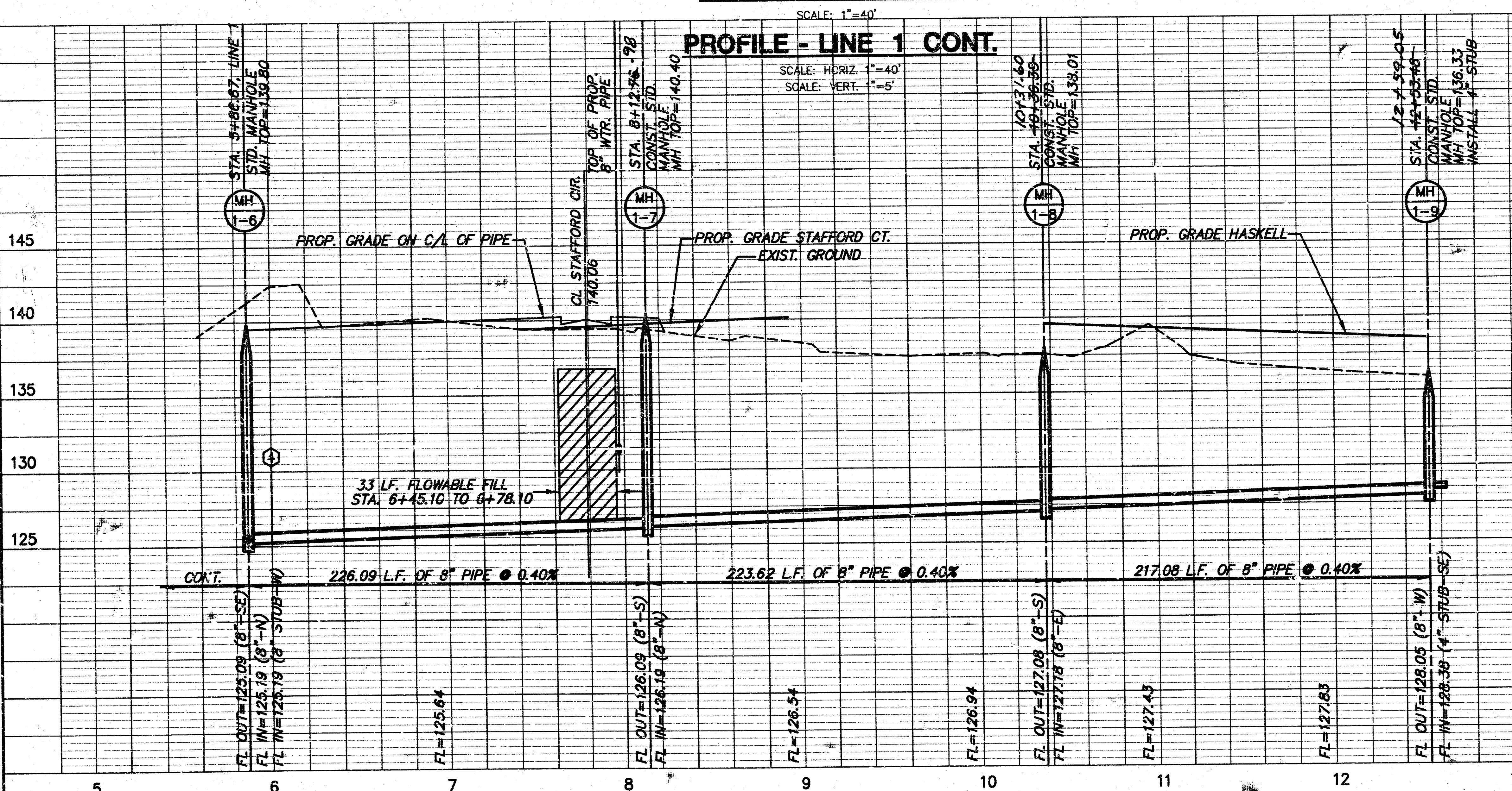
SCALE: 1"=40'

NOTE:
REGRADE EASEMENT FROM
MH 1-6 TO MH 1-7
FOR INFORMATION ONLY:
CUT=3 C.Y.
FILL=24 C.Y.



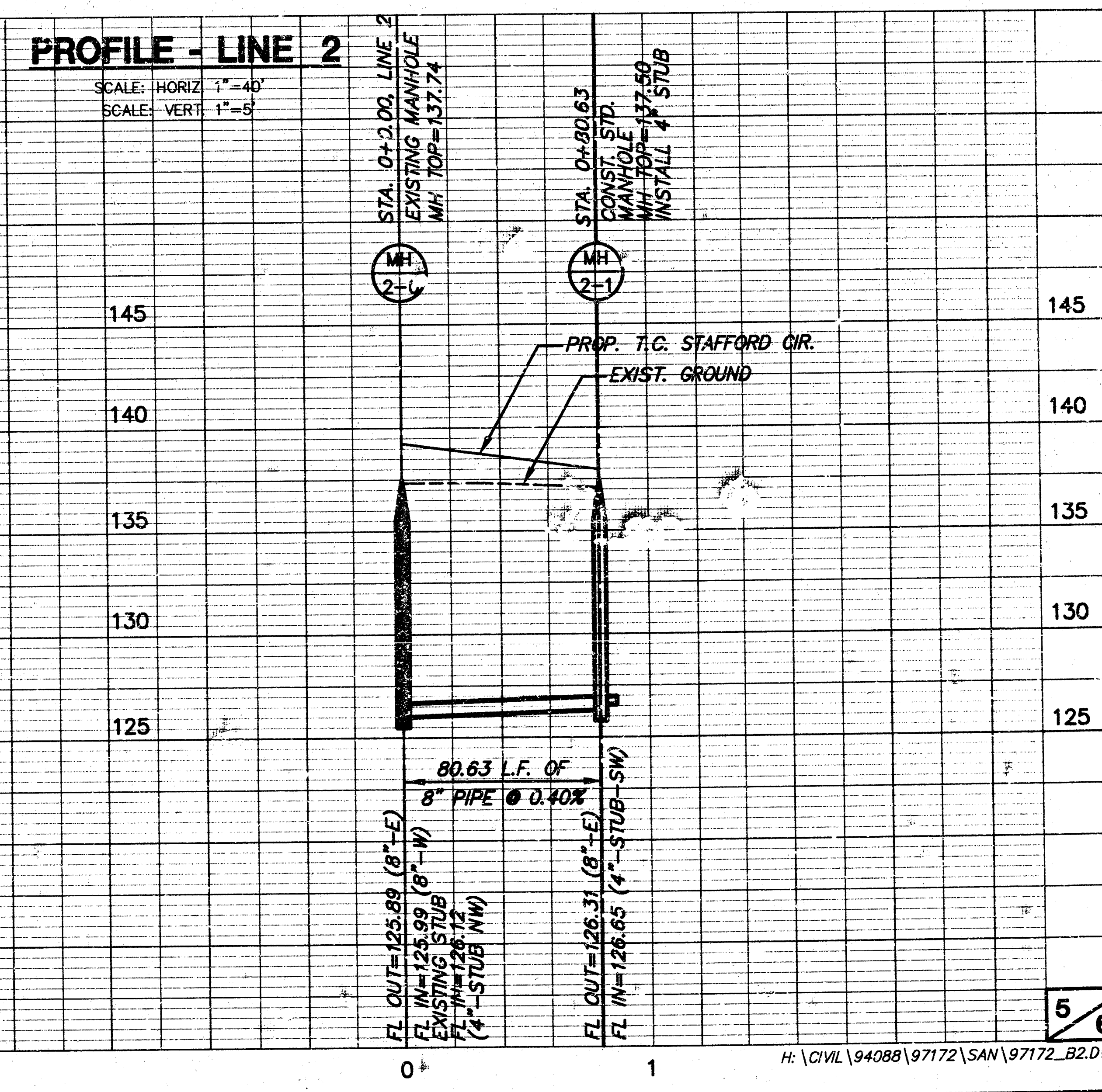
PLAN - LINE 2

SCALE: 1"=40'



PROFILE - LINE 1 CONT.

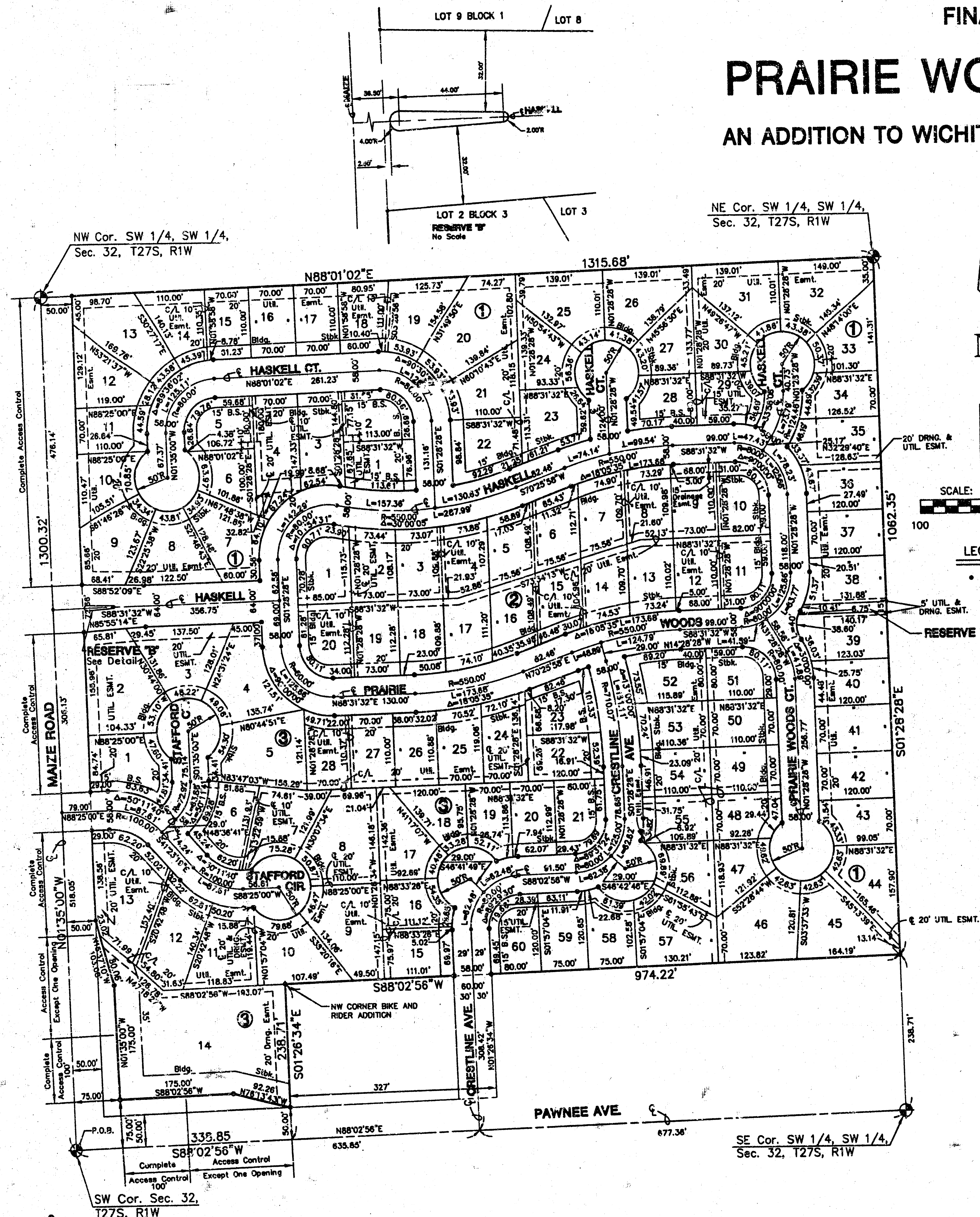
SCALE: HORIZ. 1"=40'
SCALE: VERT. 1"=5'



PROFILE - LINE 2

SCALE: HORIZ. 1"=40'
SCALE: VERT. 1"=5'

FINAL PLAT OF PRAIRIE WOODS ADDITION AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



I, Kenneth H. Bengtson, a Civil Engineer and Registered Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and plotting of "PRAIRIE WOODS ADDITION", 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 herein.

The Southwest Quarter of the Southwest Quarter of Section 32, Township 27 South, Range 1 West, except the South 238.71 feet thereof, but including the West 338.5 feet of the South 238.71 feet thereof, more particularly described as follows:

Beginning at the Southwest corner of said Southwest Quarter; thence N 01° 35' 00" W, 1300.32 feet along the West line to the Northwest corner of said Southwest Quarter; thence N 88° 01' 02" E, 1315.68 feet along the North line to the Northeast corner of said Southwest Quarter; thence S 01° 28' 28" E, 1062.35 feet along the East line of said Southwest Quarter to a point lying 238.71 feet North of the South line of said Southwest Quarter; thence S 88° 02' 56" W, 974.22 feet parallel with the South line of said Southwest Quarter to the Northwest corner of BIKE AND RIDER ADDITION, an addition to Sedgwick County, Kansas; thence S 01° 26' 34" E, 238.71 feet along the West line of said addition to a point lying on the South line of said Southwest Quarter; thence S 88° 02' 56" W, 338.55 feet along said South line to the point of beginning, except that which is dedicated as street right of way.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 16 day of February, 1994.

Kenneth H. Bengtson
Kenneth H. Bengtson, P.E., R.L.S. #922
Mid-Kansas Engineering Consultants, Inc.
411 North Webb Road
Wichita, KS 67208

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineer's and Registered Land Surveyor's Certificate, have caused the same to be surveyed and plotted into lots, blocks, streets and reserves the same to be known as "PRAIRIE WOODS ADDITION", an addition to Wichita, Sedgwick County, Kansas. Easements for the construction and maintenance of drainage and utilities, are hereby granted to the city. The streets are hereby dedicated to and for the use of the public. Reserve A is platted for drainage and utilities, landscaping, sidewalks, and public access to the Pawnee Prairie Park. Reserve B is platted for entry monuments and landscaping. The reserves shall be owned and maintained by the homeowners association. All abutters right of access to or from Maize Road over and across the West line of PRAIRIE WOODS ADDITION are hereby granted to the City of Wichita, provided however that Lot 14, Block 3 shall have access to Maize Road at one location. All abutters right of access to or from Pawnee Avenue over and across the South line of Lot 14, Block 3 are hereby granted to the City of Wichita, provided however that Lot 14, Block 3 shall have access to Pawnee Avenue at one location.

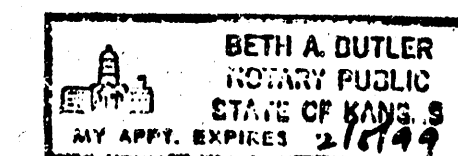
Bradley K. Smisor
Bradley K. Smisor, Executive Vice President
BUILDERS, INC.

STATE OF KANSAS)
) ss:
SEDGWICK COUNTY)

BE IT REMEMBERED, that on this 16th day of February, 1994, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Bradley K. Smisor, Executive Vice President, Builders, Inc. 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 WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year last above written.

Beth A. Butler
Notary Public
BETH A. BUTLER
My appointment expires: February 5, 1999



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

Dated this 29th day of December, 1994.

WICHITA-SEDGWICK COUNTY METROPOLITAN PLANNING COMMISSION

John W. McLaughlin Chairman
Marvin S. Krout Secretary
Marvin S. Krout

This plat approved and all dedications shown thereon, if any, accepted by the City Council of the City of Wichita, Kansas, this 21st day of March, 1994.

Elma Broadfoot Mayor
Elma Broadfoot

Pat Bumatt Deputy City Clerk
Pat Bumatt

Entered on transfer record this 17 day of April, 1994.

Susan E. Crockett-Spoon County Clerk
Susan E. Crockett-Spoon

STATE OF KANSAS)

) ss:
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this 17th day of April, 1994, at 11:30 A.M.

Pat Kettler Register of Deeds
Pat Kettler

Ed Reso Deputy
Ed Reso

