WOODSPRING

LATERAL 20, MAIN 22, W.I.S.

PROJECT NO.
468·76·245· 81269·000·000·001

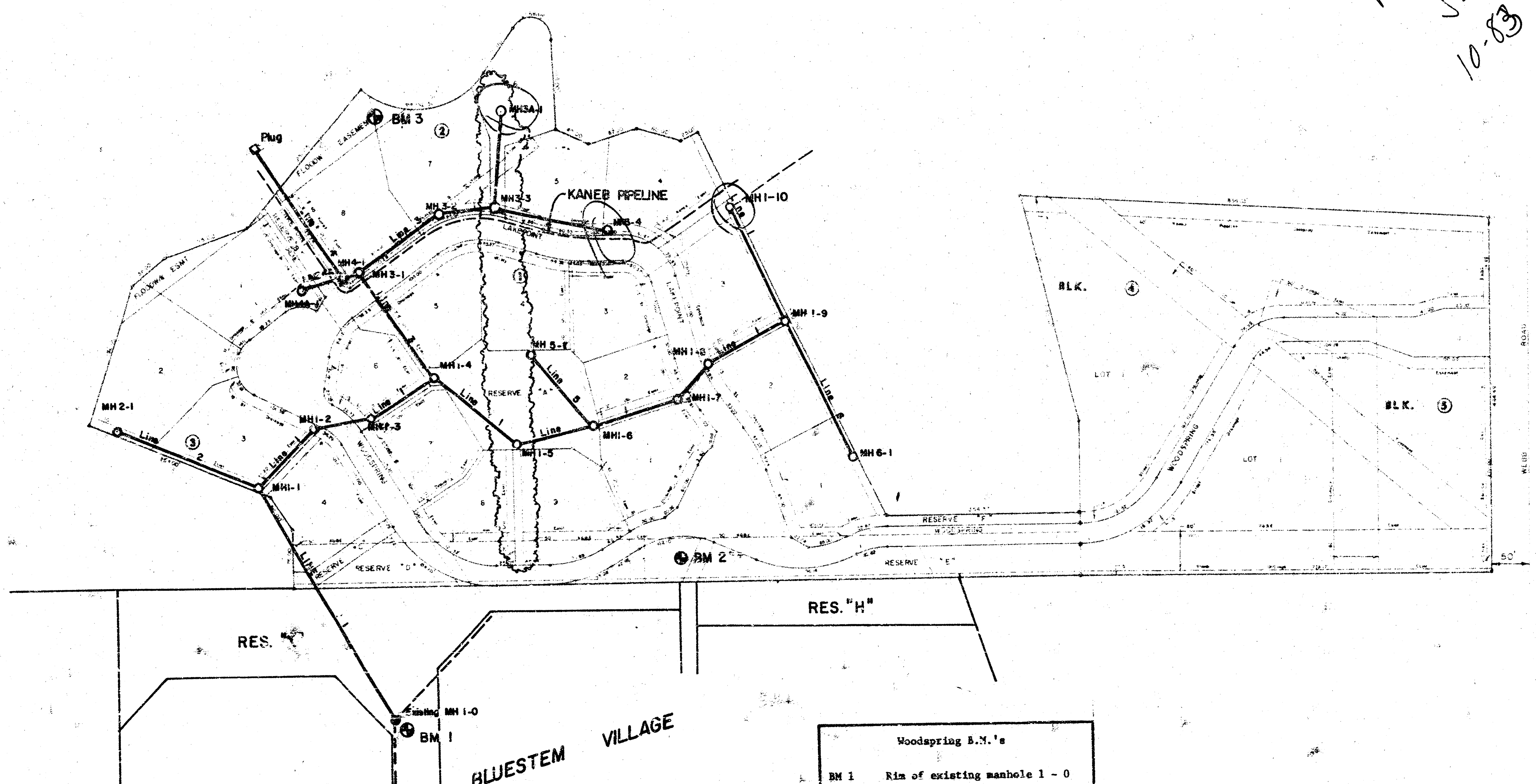
CITY OF WICHITA, KANSAS

R.W. BRUGGEMAN, CITY ENGINEER

MAY, 1983

As Built
S.H.
10-83

CAUTION: High pressure KANEB pipeline. Contact 24 hours prior to excavation. Call Jim Strickland at 1-316-262-1608.



N

Scale: 1"=100'

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1
3	LINE 1
4	LINE 2 & 3
5	LINE 4,4A,5,&6
6	MANHOLE DETAILS
7	FINAL PLAT

GENERAL NOTES

1. RISER PIPE SHALL BE INSTALLED TO SERVE INDIVIDUAL LOTS OR TRACTS IN CONJUNCTION WITH NEW SANITARY SEWER CONSTRUCTION, UNLESS OTHERWISE ORDERED BY THE ENGINEER, BECAUSE OF GROUND WATER, UNSTABLE SOIL OR UNUSUALLY DEEP CONSTRUCTION. RISER LOCATIONS SHALL BE AS APPROVED BY THE PROPERTY OWNER WITH THE CONCURRENCE OF THE ENGINEER. INSTALLATION OF RISERS ON SEWERS BECAUSE OF UNUSUAL DEPTH WILL BE REQUIRED WHEN THE SEWER IS DEEPER THAN TWELVE FEET (12'). THE CONTRACTOR WILL BE REQUIRED TO FILE WRITTEN DOCUMENTATION WITH THE ENGINEER IN A FORM APPROVED BY THE ENGINEER INDICATING THE LOCATIONS WHERE RISERS ARE TO BE INSTALLED AS REQUESTED BY THE PROPERTY OWNER OR HIS AUTHORIZED REPRESENTATIVE. RISER PIPE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SHOWN ON THE STANDARD RISER DETAIL SHEET.
2. THE CO[illegible] FOR PRESERVING PROPERTY IRONS. THE CONT[illegible]ABLISH ANY PROPERTY IRONS WHICH AR[illegible]TION OPERATIONS. SUCH IRONS SHALL BE [illegible]EYOR OR A LICENSED PROFESSIONAL [illegible]
3. [illegible] IN THE PROPOSAL.

Prior to excavation in Reserve K the contractor shall notify Tallgrass to locate sprinkler lines and to allow time for removal of trees and shrubs. Contact Ken Pung at 681-0243.

The cost of removal and repair of the sprinkler system and all utilities shall be subsidiary to the installation of the sewer lines.

Woodspring B.M.'s

BM 1	Rim of existing manhole 1 - 0	Elev. 205.32
BM 2	Spike step in south face of KG&E "Y" pole.	Elev. 211.32
BM 3	Square cut on southeast corner of pond dam.	Elev. 207.86

RICHARD CARSON BAIR
LICENSED
6803
KANSAS
PROFESSIONAL ENGINEER

Pla

WOODSPRING
SANITARY SEWER
EXTENSIONS

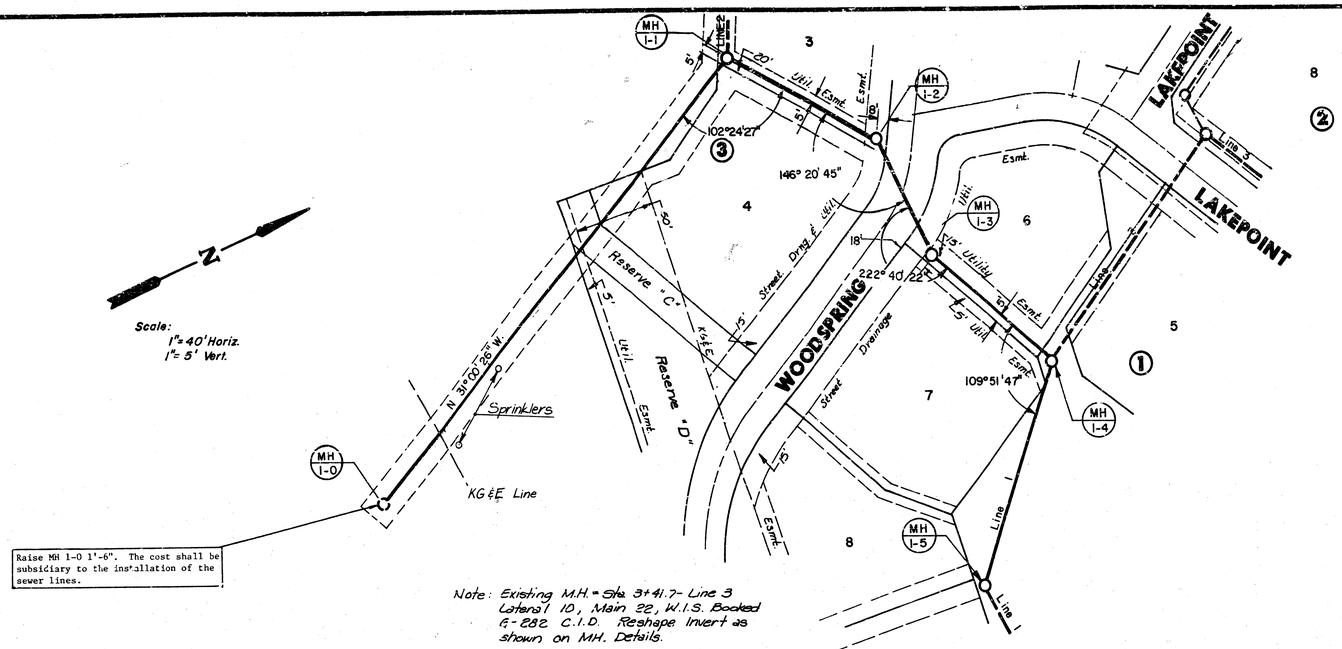
Design
Drawn by
Checked by
Date
Job no.

MID-KANSAS ENGINEERING CONSULTANTS PA
240 NORTH ROCK ROAD
SUITE 130
WICHITA, KANSAS 67206
682-6561

Sheet 1 of 7

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AVAILABLE COPY

WOODSPRING LAT. 20, MAIN 22, W.I.S.
PROJECT NO.
468-76-245- 81269-000-000-001



Scale:
1"= 40' Horiz.
1"= 5' Vert.

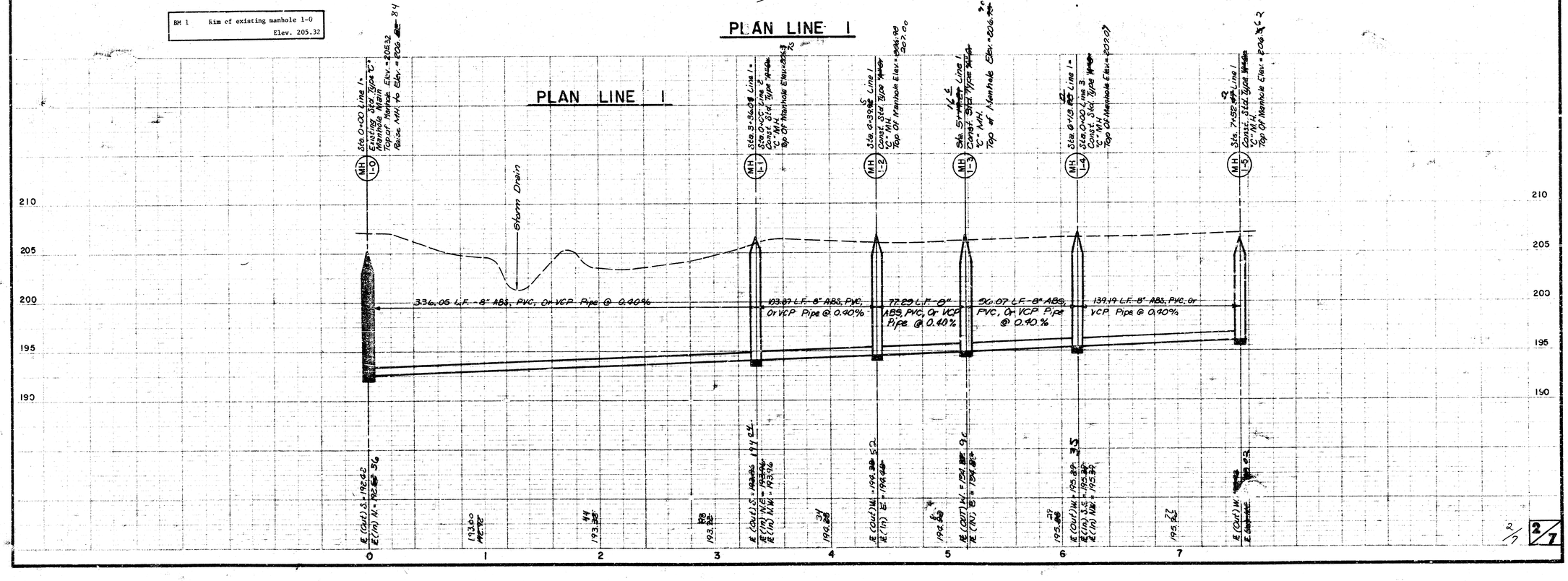
Raise MH 1-0 1'-6". The cost shall be subsidiary to the installation of the sewer lines.

Note: Existing M.H. - Sta 3+41.7 - Line 3 Lateral 10, Main 22, W.I.S. Booked E-282 C.I.D. Reshape Invert as shown on MH. Details.

BM 1 Rim of existing manhole 1-0
Elev. 205.32

As Built
J.L.L
10-83

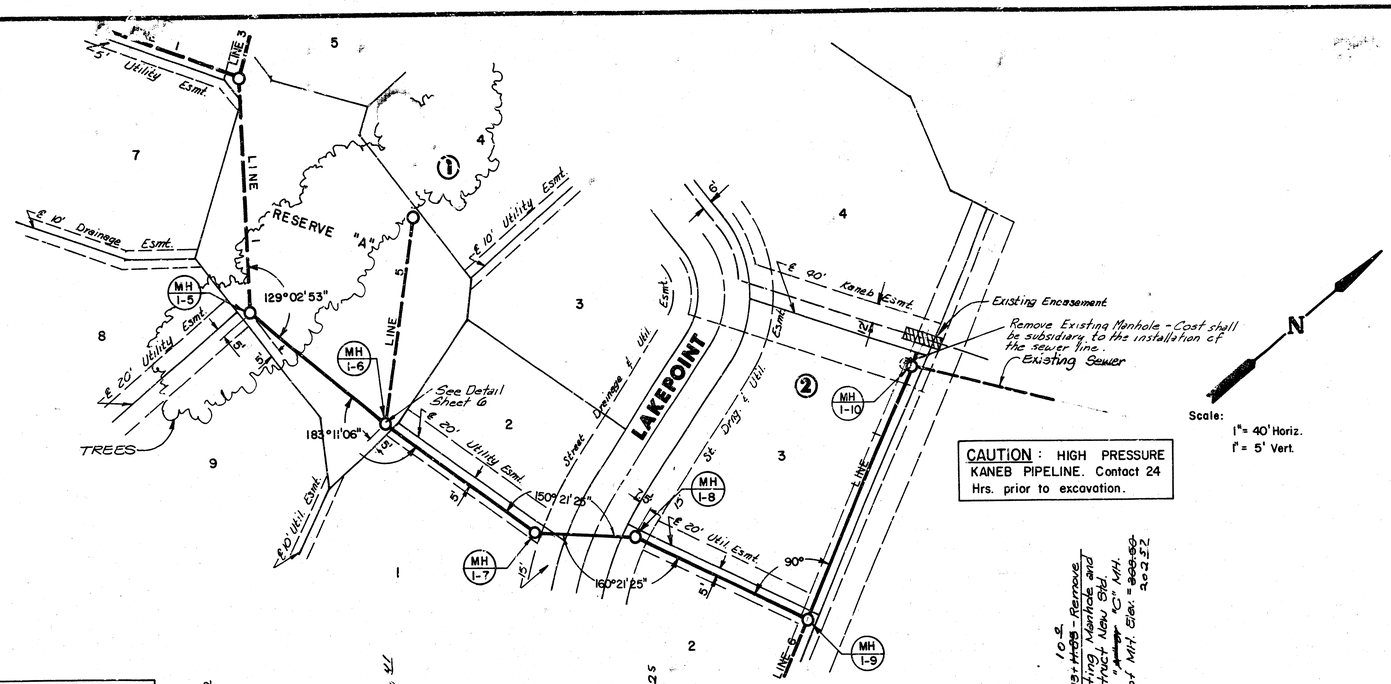
PLAN LINE 1



2/7

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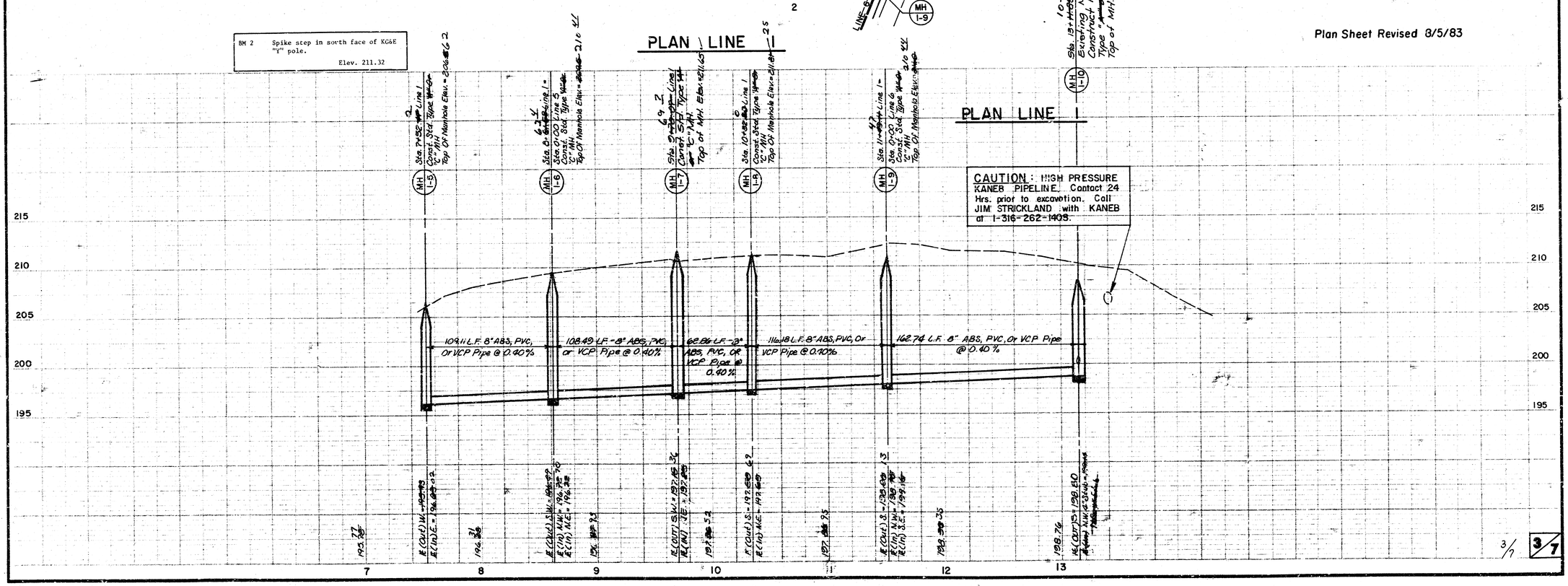
WOODSPRING LAT. 20, MAIN 22, W.I.S.
PROJECT NO.
438-76-245- 81269 -000-000-001



CAUTION: HIGH PRESSURE KANEB PIPELINE. Contact 24 Hrs. prior to excavation.

BM 2 Spike step in south face of KG&E "Y" pole.
Elev. 211.32

Plan Sheet Revised 8/5/83



CAUTION: HIGH PRESSURE KANEB PIPELINE. Contact 24 Hrs. prior to excavation. Call JIM STRICKLAND with KANEB at 1-316-262-1405.

Plan Sheet Revised 8/5/83

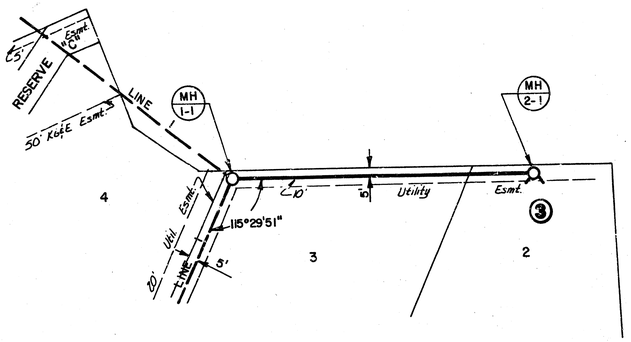
3/7

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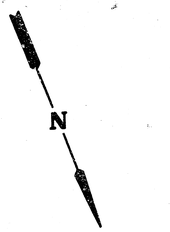
WOODSPRING LAT 20, MAIN 22, W.I.S.
PROJECT NO,
468-76-245- 81269 -000-000-001

Plan Sheet Revised 8/5/83

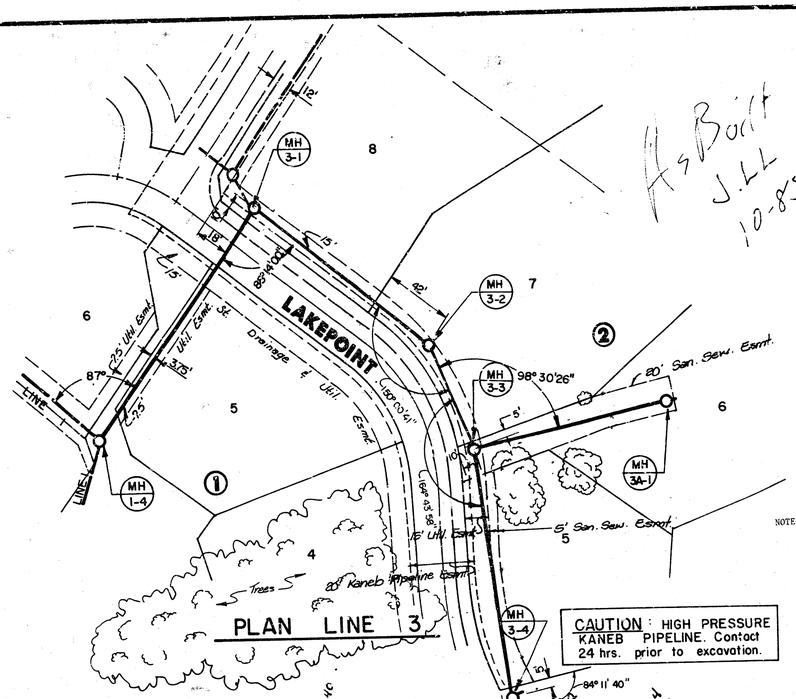
A. S. Burt
J.L.L.
10-85



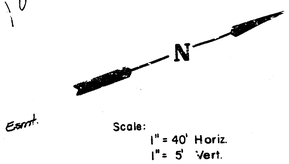
PLAN LINE 2



Scale:
1" = 40' Horiz.
1" = 5' Vert.



PLAN LINE 3



Scale:
1" = 40' Horiz.
1" = 5' Vert.

NOTE: Contractor shall not remove any trees shown on this sheet without the written consent of the City. Any trees removed shall be replaced in size and type.

Date: 7-20-83

CAUTION: HIGH PRESSURE KANEB PIPELINE. Contact 24 hrs. prior to excavation.

BM 1 Rim of existing manhole 1-0
Elev. 205.32

BM 3 Square cut on southeast corner of pond dam.
Elev. 207.86

PROFILE LINE 2

PROFILE LINE 3

PROFILE LINE 3A

CAUTION: HIGH PRESSURE KANEB PIPELINE. Contact JIM STRICTLAND at 1-316-262-1408.

200 L.F. 8" ABS, PVC, Or VCP Pipe @ 0.40%

121.3 L.F. 8" ABS, PVC, Or VCP Pipe @ 0.40% Slope

165.3 L.F. 8" ABS, PVC, Or VCP Pipe @ 0.40%

134.3 L.F. 8" ABS, PVC, Or VCP Pipe @ 0.20% Slope

638 LF 8" ABS, PVC, Or VC Pipe @ 0.40% Slope

150.4 L.F. 8" ABS, PVC, Or VCP @ 4% Slope

210
205
200
195
190

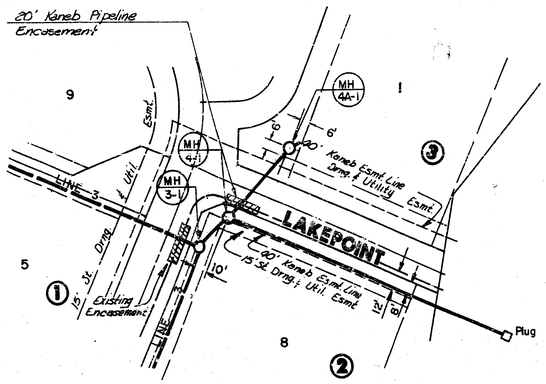
4/7

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WOODSPRING LAT 20, MAIN 22, W.I.S.
PROJECT NO.
468-76-245-81263 -000-000-001

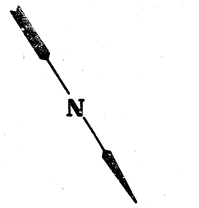
THE CONTRACTOR SHALL EXCAVATE AND BACKFILL FOR THE ENCASEMENT OF THE KANEB PIPELINE. THE KANEB PIPELINE COMPANY WILL INSTALL THE ENCASEMENT PIPE AROUND THEIR PIPE. CONTRACTOR SHALL BE PAID FOR EXPOSING THE PIPE AND BACKFILL ONLY.

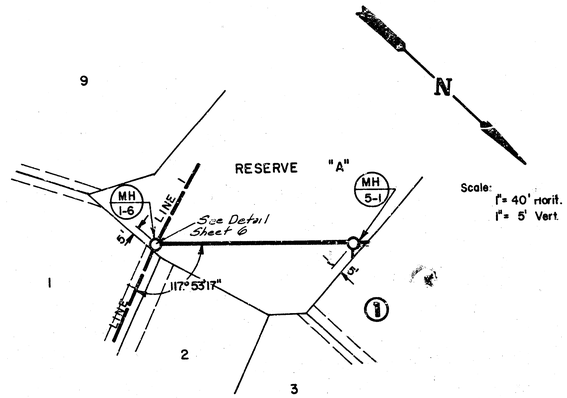


PLAN LINE 4&4A

CAUTION: HIGH PRESSURE KANEB PIPELINE CONTACT 24 HRS PRIOR TO EXCAVATION

NOTE: Design Water Surface Elev. = 206.70 (100 Yr.)

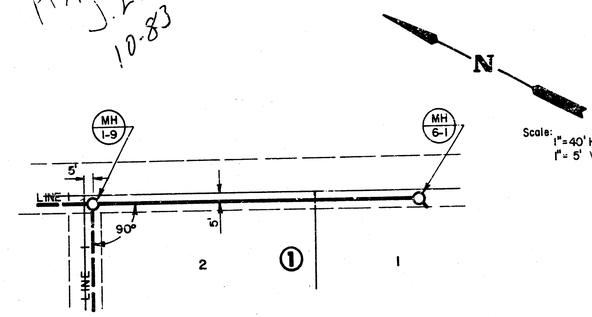




Scale:
1"= 40' Horiz.
1"= 5' Vert.

PLAN LINE 5

Acc Built
J.L.L
10-83



Scale:
1"=40' Horiz.
1"= 5' Vert.

PLAN LINE 6

BM 3 Square cut on southeast corner of pond dam. Elev. 207.86

BM 2 Spike step in south face of KG&E "Y" pole. Elev. 211.32

PROFILE LINE 4

PROFILE LINE 4A

PROFILE LINE 5

PROFILE LINE 6

CAUTION: HIGH PRESSURE KANEB PIPELINE, CONTACT JIM STRICTLAND 24HRS. PRIOR TO EXCAVATION AT: 1-316-262-1408

25.10 L.F. 8" ABS, PVC, Or VCP Pipe @ 0.40%

200 L.F. 8" ABS, PVC, Or VCP @ 0.40%

54.18 L.F. 8" ABS, PVC, or VCP @ 0.40%

126.22 L.F. 8" ABS, PVC, Or VCP Pipe @ 0.40%

200' L.F. 8" ABS, PVC, Or VCP Pipe @ 0.40%

215
210
205
200
195

0 1 2 0 1 0 1 0 1 2

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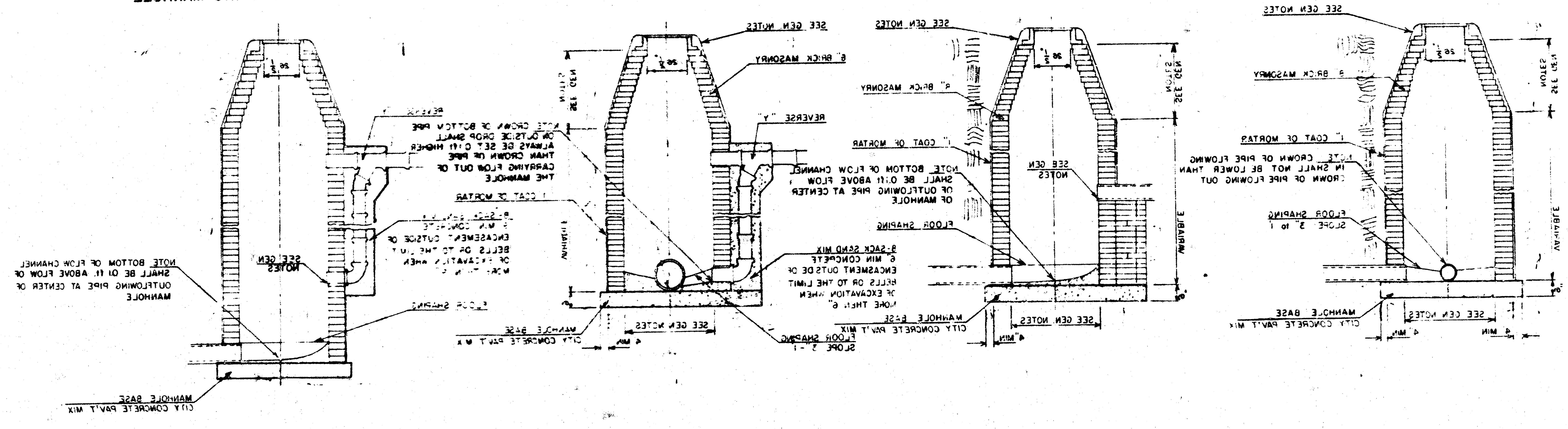
REVISED SEPTEMBER 1980
REVISED DECEMBER 1981

SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN BY

CITY of WICHITA, KANSAS

DETAIL OF OUTSIDE DROP CONSTRUCTED ON EXISTING MANHOLE — TYPE "A" OUTSIDE DROP MANHOLE — TYPE "A" INSIDE DROP MANHOLE — TYPE "A" MANHOLE



GENERAL NOTES

1. 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. TYPE "A" MANHOLES CAN BE USED ON SEWERS UP TO 15' IN DEPTH 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'. THE HEIGHT OF THE CORBELS ON 4' DIAMETER MANHOLES SHALL BE 4'. MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORBELS 6' IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

2. 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.

3. 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. THE VERTICAL DROP FROM THE LOWER PIPE ON SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12", EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.

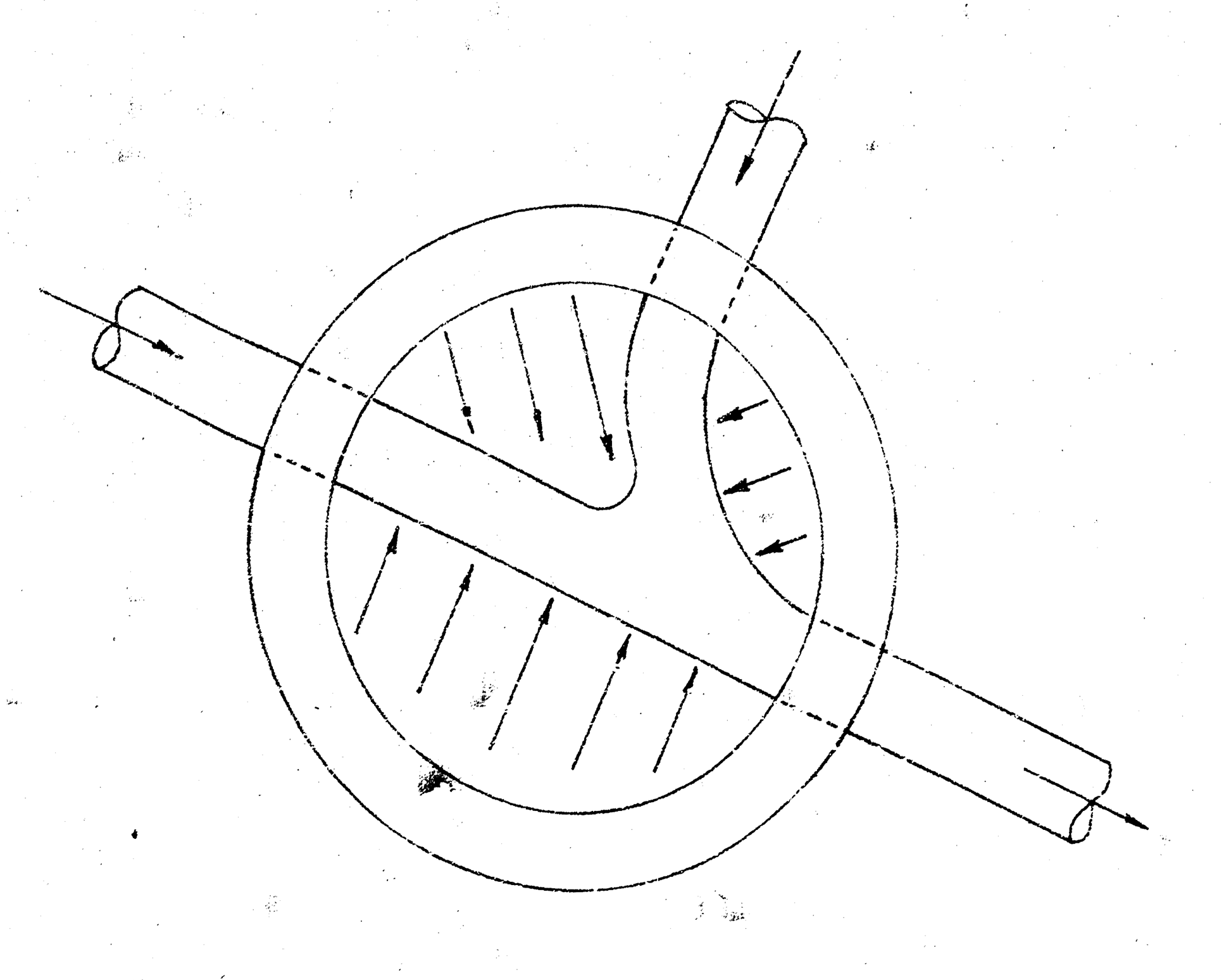
4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SO THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING 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.

5. 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.

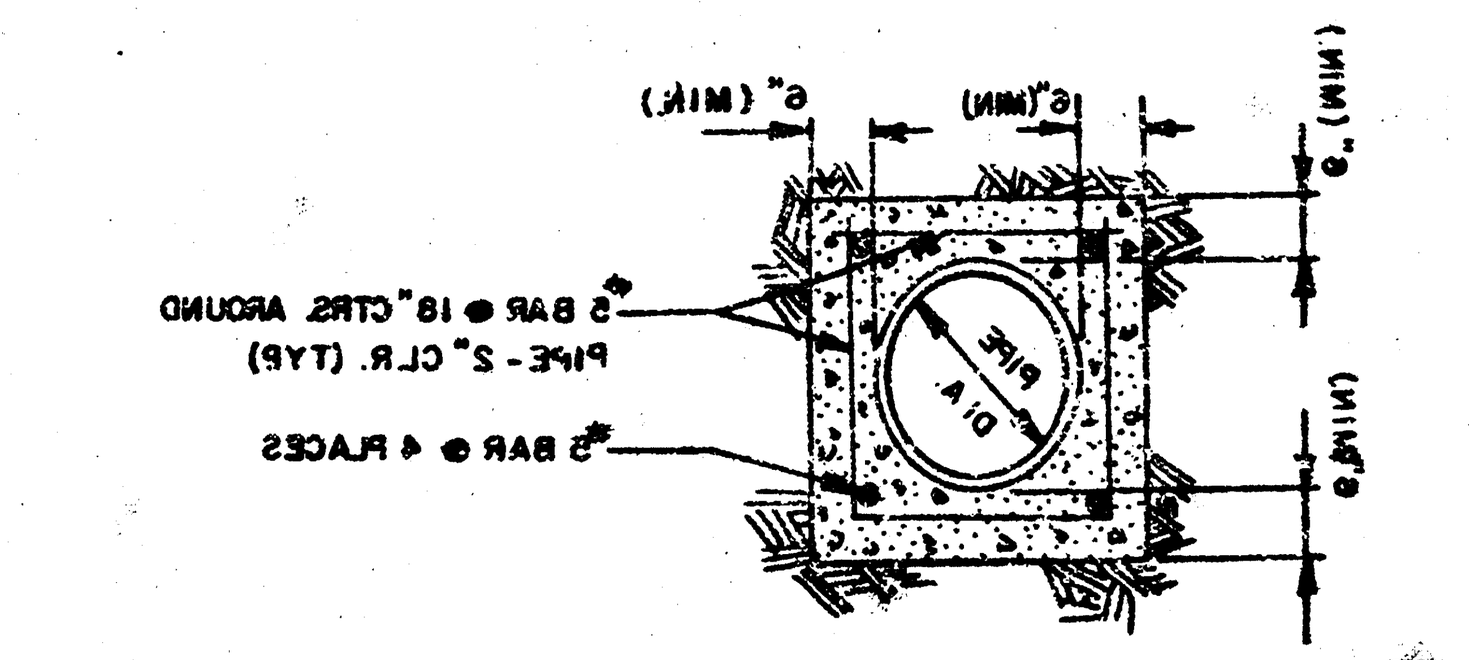
6. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

7. THE VERTICAL DROP-IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' 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.

8. STANDARD MANHOLES TYPE "A" AND STANDARD INSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.



GROUT DETAIL OF MH I-6



CONCRETE ENCASEMENT DETAIL

6 / 7

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14 4 1 12

WOODSPRING

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

FINAL PLAT OF

CAUTION:
Contact SA Inc. Prior To Excavation Call
High Pressure KANEB Pipeline.
Also Shielded At 1-316-265-1408.

