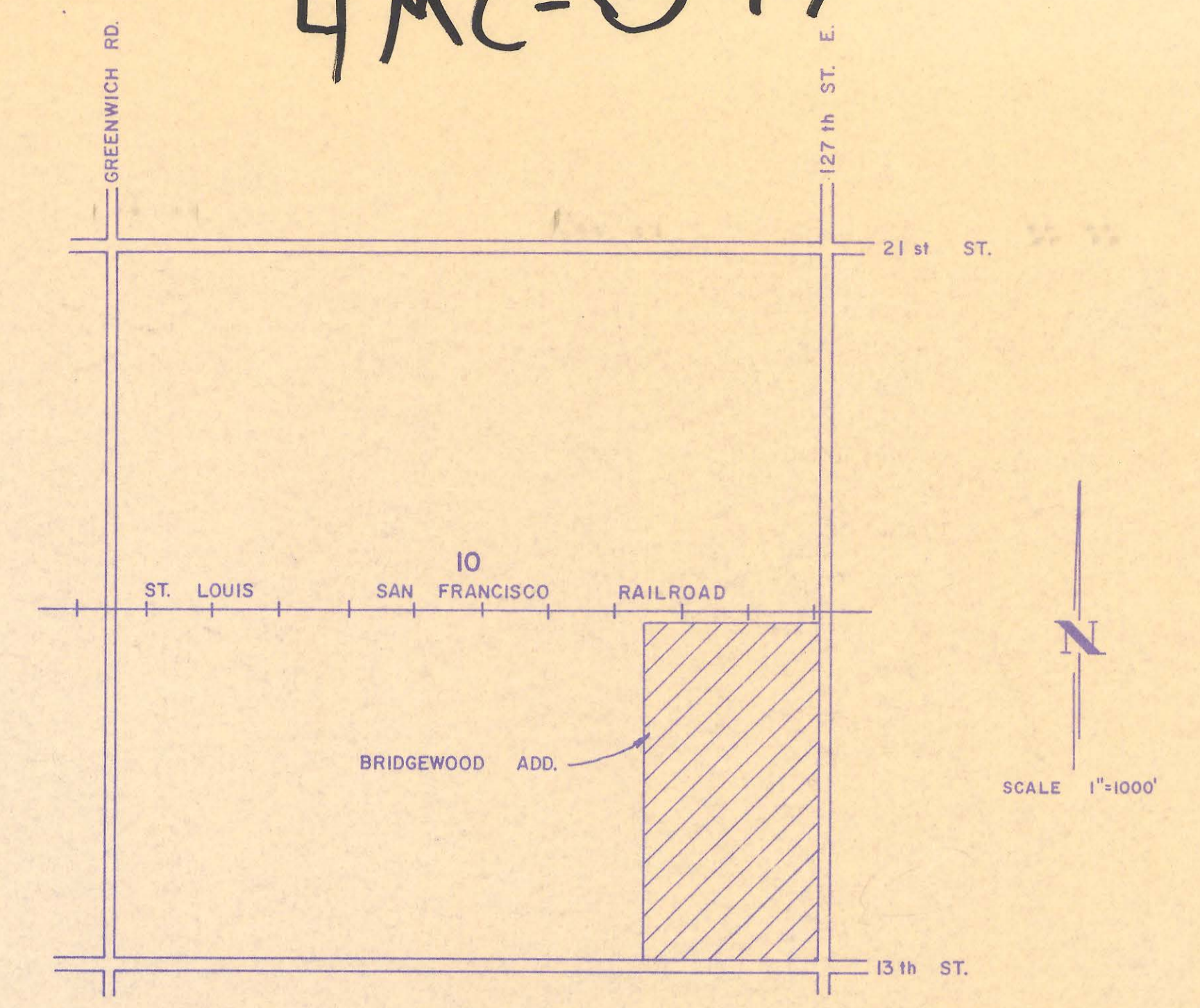
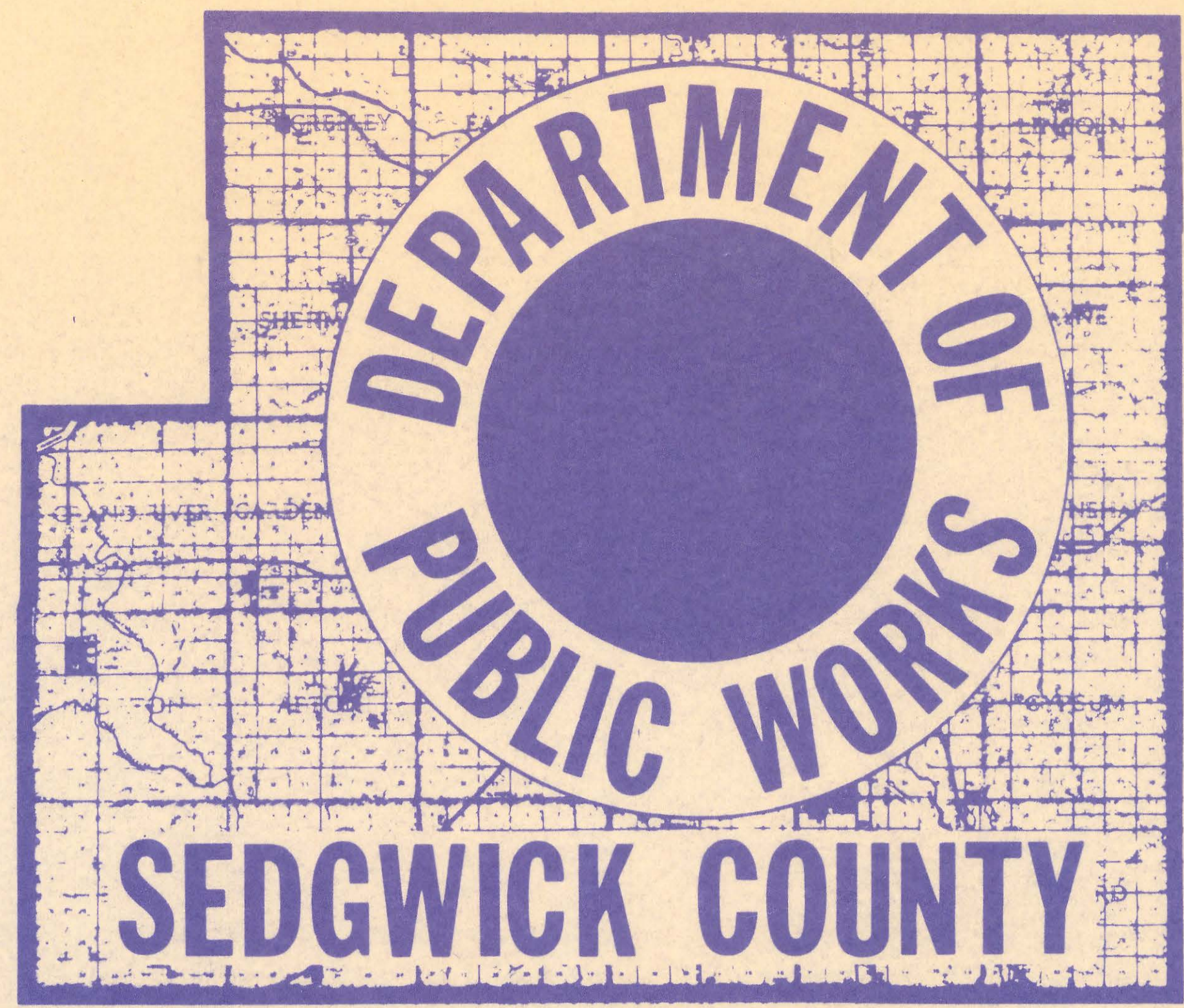


4MC-097



VICINITY MAP

- BENCH MARKS**
1. R.R. SPK. IN P.P. NW. COR. INTER. 13th & 127th—1352.59
  2. "D" EAST END SOUTH HUB GUARD AT BRIDGE 100' WEST OF LIFT STATION—1338.43
  3. STEPPED SPK. IN P.P. S.W. COR. 143rd E. & 13th—1349.90

COBBLESTONE EXTENSIONS AT BACK

# CONSTRUCTION PLANS FOR SANITARY SEWER EXTENSIONS BRIDGEWOOD ADDITION CRESTVIEW COUNTRY CLUB ESTATES TO SEDGWICK COUNTY, KANSAS

## REISS AND GOODNESS ENGINEERS WICHITA, KANSAS

1981

NOTE: THESE PLANS ARE NOT AS CONSTRUCTED

PLANS PREPARED BY  
**REISS & GOODNESS ENGINEERS**  
2100 WEST 21<sup>ST</sup> STREET  
WICHITA, KANSAS 67204  
(316) 832-0213

DATE

FILED  
FILED IN THE OFFICE OF  
THE SEDGWICK COUNTY CLERK

*Donna White*  
*By Michael J. Jones* 2/11/81

COUNTY CLERK DATE

APPROVED

*[Signature]*

COUNTY ENGINEER/DIRECTOR OF PUBLIC WORKS

DATE

APPROVED

*Donald E. Dragg*

CHAIRMAN  
BOARD OF COUNTY COMMISSIONERS

DATE 2/11/81

INDEX OF SHEETS

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SHEET NO. 1	PROJECT LAYOUT
SHEET NO. 2	PLAT
SHEET NO. 3	MAIN I
SHEET NO. 4	MAIN I (CONT.), LAT. I-A
SHEET NO. 5	LAT. I-B, LAT. I-C, LAT. I-D
SHEET NO. 6	LAT. I-E, LAT. I-E-I, II, III, IV
SHEET NO. 7	OUTFALL
SHEET NO. 8	PUMPING STATION LAYOUT
SHEET NO. 9	PUMPING STATION DETAILS
SHEET NO. 10	FORCE MAIN (0+00-25+00)
SHEET NO. 11	FORCE MAIN (25+00-51+00)
SHEET NO. 12	FORCE MAIN (51+00-70+00)
SHEET NO. 13	STANDARD MANHOLE DETAILS
SHEET NO. 14	

4MC-097 MH 044 Exhibit A (No Film, 16 #)

Beginning at the Southwest Corner of Lot 9, Block 1, Crestview Country Club Estates Bridgewood Addition, Sedgwick County, Kansas, thence westerly along the south line of said Lot 9 following a curve to the left with a 159 foot radius and a central angle of 76°30'00" a distance of 40 feet; thence, northeasterly to a point on the east line of said Lot 9 located 25 feet north of the Southeast Corner of said Lot 9; thence south along said east line of Lot 9 a distance of 25 feet to the point of beginning.

1921787 8-68 MAR 099 MAR 0915-0922

EASEMENT FOR SANITARY SEWER PUMP STATION

THIS EASEMENT FOR SANITARY SEWER PUMP STATION executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter "County") by Crestview Country Club Association, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations as follows:

See Supplemental Conditions to Sanitary Sewer Pump Station Easement attached hereto and incorporated herein by reference as Exhibit A.

Owner hereby grants unto County a permanent easement upon the following described premises, to-wit:

4MC-097, 16 #

A tract of land located in the Northwest Quarter of Section 14, Township 27 South, Range 2 East of the 6th P.M., Sedgwick County, Kansas.

Commencing at the Northeast corner of said Northwest Quarter; thence West along the North line of said Northwest Quarter on an assumed bearing of S 88°33'02" W a distance of 112.10 feet; thence S 01°00'29" E a distance of 50 feet to the point of beginning, said point being on the 50 foot right-of-way line of 13th Street North; thence S 01°00'29" E along the East line of a 20 foot wide Crestview Improvement Utility Easement (as recorded at the Register of Deeds, Sedgwick County Courthouse, File 0579, Page 0902) a distance of 70 feet; thence N 88°33'02" E a distance of 112 feet; thence N 01°00'29" W a distance of 70.0 feet to a point on the said 50 foot right-of-way line; thence S 88°33'02" W along said right-of-way line a distance of 112.0 feet to the point of beginning, containing 0.185 acre more or less.

For the purpose of operating, maintaining and repairing a sanitary sewer pump station and slump block well by the County.

"OWNER"  
CRESTVIEW COUNTRY CLUB ASSOCIATION  
By *George Edmestock*, President

"OWNER"  
STATE OF KANSAS  
REGISTER OF DEEDS  
By *Janet Agat*, Deputy

ATTEST BY: *Janet Agat*, Deputy  
*County Clerk*

1921788 8-68 MAR 099 MAR 0915

TEMPORARY CONSTRUCTION EASEMENT

THIS TEMPORARY CONSTRUCTION EASEMENT executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas (hereinafter "County") by Crestview Country Club Association (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations as follows:

See Supplemental Conditions to Temporary Construction Easement attached hereto and incorporated herein by reference as Exhibit A.

Owner hereby grants to County a temporary easement upon the following described premises, to-wit:

A tract of land located in the Northwest Quarter of Section 14, Township 27 South, Range 2 East of the 6th P.M., Sedgwick County, Kansas.

Commencing at the Northeast corner of said Northwest Quarter; thence West along the North line of said Northwest Quarter on an assumed bearing of S 88°33'02" W a distance of 112.10 feet; thence S 01°00'29" E a distance of 50 feet to the point of beginning, said point being on the 50 foot right-of-way line of 13th Street North; thence S 01°00'29" E along the East line of a 20 foot wide Crestview Improvement Utility Easement (as recorded at the Register of Deeds, Sedgwick County Courthouse, File 0579, Page 0902) a distance of 70 feet; thence N 88°33'02" E a distance of 112 feet; thence N 01°00'29" W a distance of 70.0 feet to a point on the said 50 foot right-of-way line; thence S 88°33'02" W along said right-of-way line a distance of 112.0 feet to the point of beginning, containing 0.185 acre more or less.

For the purpose of constructing a sanitary sewer pump station and slump block well according to final plans and specifications to be prepared by Professional Engineering Consultants, P.A. substantially consistent with and as set forth in the Crestview Pump Station & Details drawing attached hereto and incorporated herein by reference as Exhibit B. This Temporary Construction Easement shall expire upon completion of construction of the above described improvements, but in no event later than April 2, 2001.

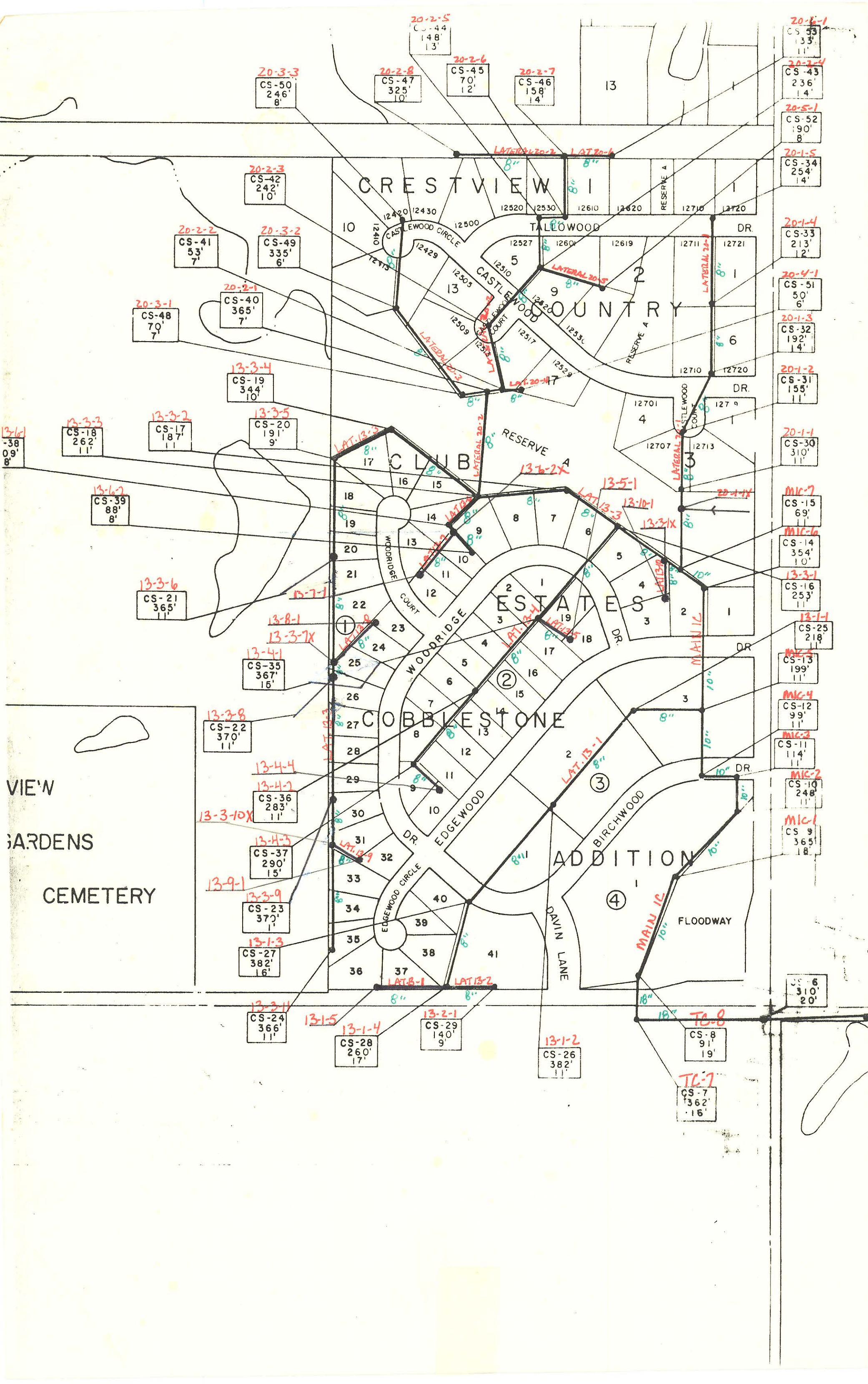
"OWNER"  
CRESTVIEW COUNTRY CLUB ASSOCIATION  
By *George Edmestock*, President

"OWNER"  
STATE OF KANSAS  
REGISTER OF DEEDS  
By *Janet Agat*, Deputy

ATTEST BY: *Janet Agat*, Deputy  
*County Clerk*

4MC-097

4MC-097



CRESTVIEW 1

COUNTRY 2

CLUB 17

ESTATES 19

COBBLESTONE 27

ADDITION 4

VIEW GARDENS CEMETERY

20-3-3  
CS-50  
246'  
8'

20-2-8  
CS-47  
325'  
10'

20-2-6  
CS-45  
70'  
12'

20-2-7  
CS-46  
158'  
14'

20-4-1  
CS-53  
133'  
11'

20-2-4  
CS-43  
236'  
14'

20-5-1  
CS-52  
190'  
8'

20-1-5  
CS-34  
254'  
14'

20-2-3  
CS-42  
242'  
10'

20-2-2  
CS-41  
53'  
7'

20-3-2  
CS-49  
335'  
6'

20-2-1  
CS-40  
365'  
7'

20-3-1  
CS-48  
70'  
7'

13-3-4  
CS-19  
344'  
10'

13-3-2  
CS-17  
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11'

13-3-5  
CS-20  
191'  
9'

13-3-3  
CS-18  
262'  
11'

13-6-2  
CS-39  
88'  
8'

13-3-6  
CS-21  
365'  
11'

13-8-1  
13-3-7X

13-4-1  
CS-35  
367'  
15'

13-3-8  
CS-22  
370'  
11'

13-4-4  
13-4-2  
CS-36  
283'  
11'

13-3-10X

13-4-3  
CS-37  
290'  
15'

13-9-1  
13-3-9  
CS-23  
370'  
11'

13-1-3  
CS-27  
382'  
16'

13-3-11  
CS-24  
366'  
11'

13-1-4  
CS-28  
260'  
17'

13-2-1  
CS-29  
140'  
9'

13-1-2  
CS-26  
382'  
11'

TC-8  
CS-8  
91'  
19'

TC-7  
CS-7  
362'  
15'

20-1-4  
CS-33  
213'  
12'

20-4-1  
CS-51  
50'  
6'

20-1-3  
CS-32  
192'  
14'

20-1-2  
CS-31  
155'  
11'

20-1-1  
CS-30  
310'  
11'

MIC-7  
CS-15  
69'  
11'

MIC-6  
CS-14  
354'  
10'

13-3-1  
CS-16  
253'  
11'

13-1-1  
CS-25  
218'  
11'

MIC-5  
CS-13  
199'  
11'

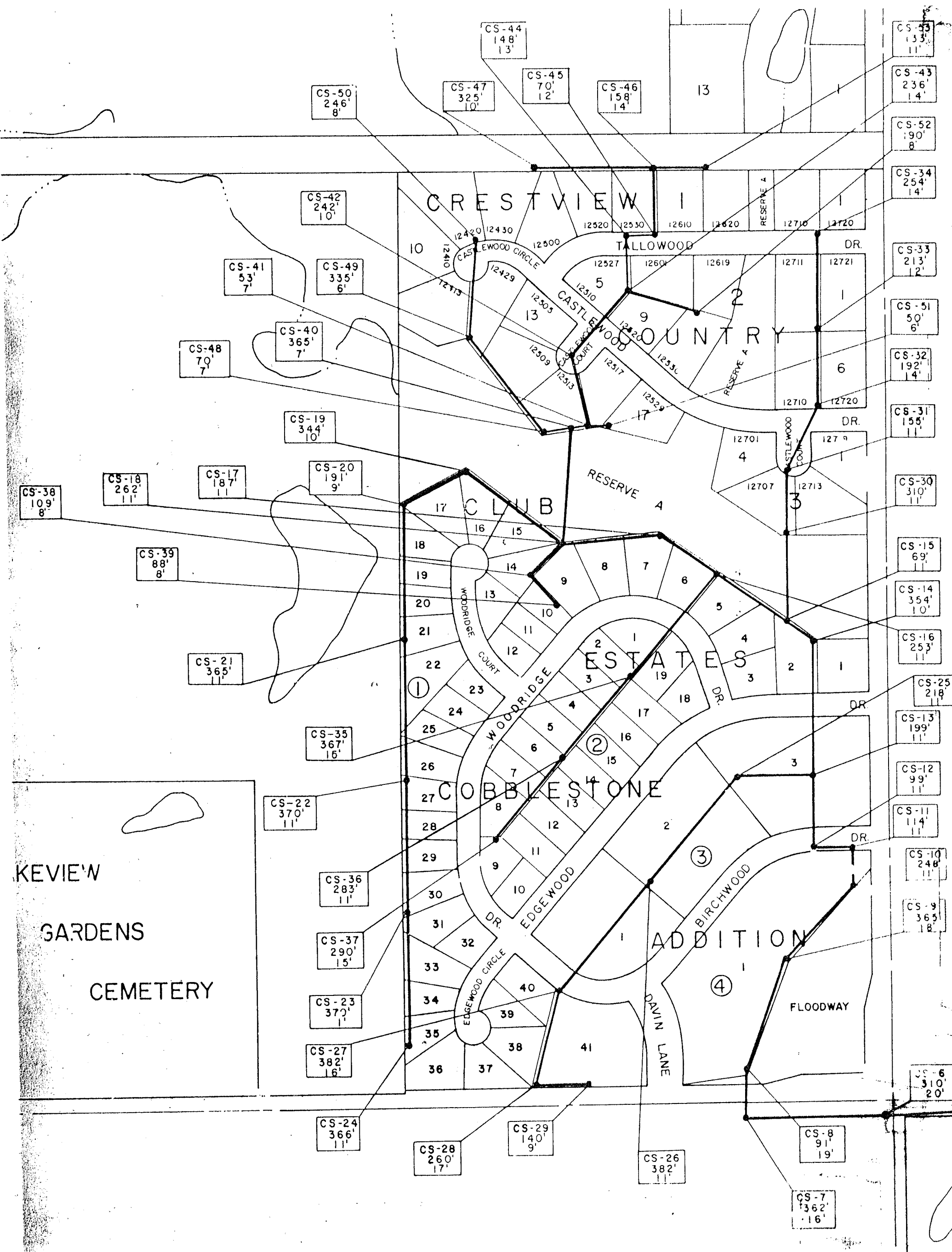
MIC-4  
CS-12  
99'  
11'

MIC-3  
CS-11  
114'  
11'

MIC-2  
CS-10  
248'  
11'

MIC-1  
CS-9  
365'  
18'

CS-6  
310'  
20'



KEVIE'W  
GARDENS  
CEMETERY

CRESTVIEW I

TALLOWOOD

CASTLEWOOD

COUNTRY

CLUB

RESERVE 4

ESTATES

COBBLESTONE

ADDITION

FLOODWAY

DAVIN LANE

10

13

17

17

18

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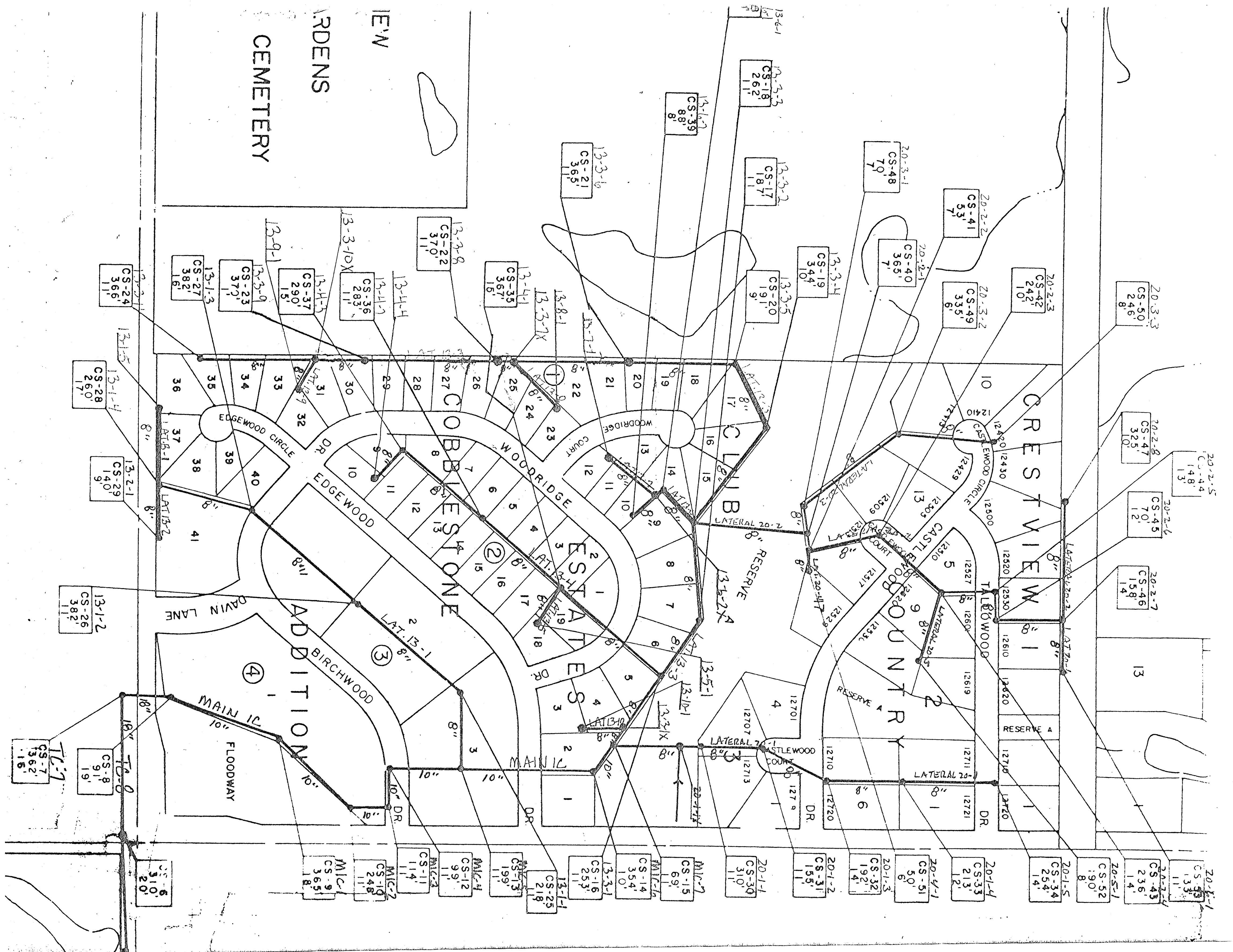
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RDENS  
CEMETERY

CRESTVIEW

COUNTRY CLUB

ADDITION

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CS-243  
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13'

CS-244  
148'  
13'

CS-245  
148'  
13'

CS-246  
148'  
13'

CS-247  
148'  
13'

CS-248  
148'  
13'

CS-249  
148'  
13'

CS-250  
148'  
13'

CS-251  
148'  
13'

CS-252  
148'  
13'

CS-253  
148'  
13'

CS-254  
148'  
13'

CS-255  
148'  
13'

CS-256  
148'  
13'

CS-257  
148'  
13'

CS-258  
148'  
13'

CS-259  
148'  
13'

CS-260  
148'  
13'

CS-261  
148'  
13'

CS-262  
148'  
13'

CS-263  
148'  
13'

CS-264  
148'  
13'

CS-265  
148'  
13'

CS-266  
148'  
13'

CS-267  
148'  
13'

CS-268  
148'  
13'

CS-269  
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13'

CS-270  
148'  
13'

CS-271  
148'  
13'

CS-272  
148'  
13'

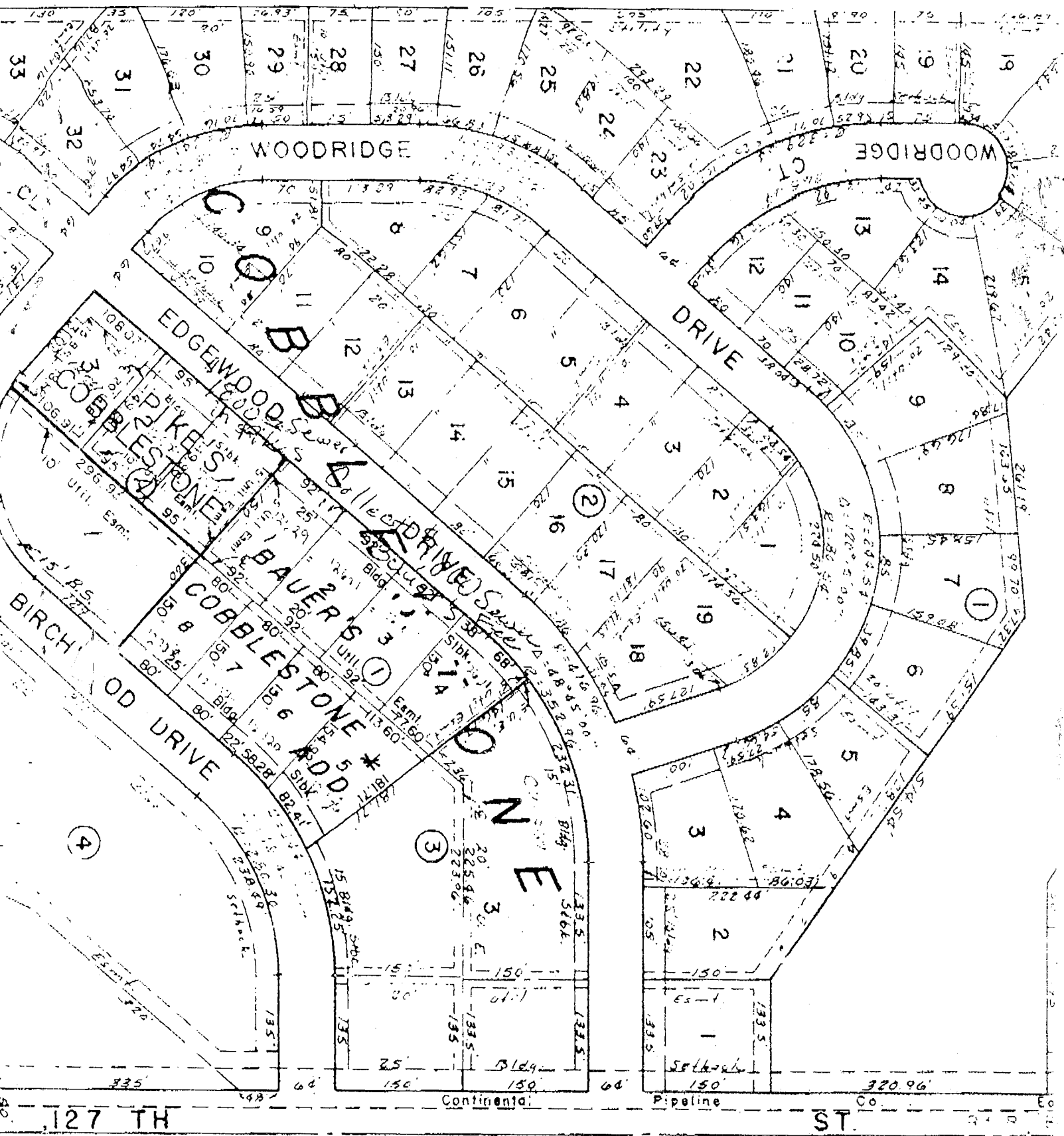
CS-273  
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13'

CS-274  
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13'

CS-275  
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13'

CS-276  
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13'

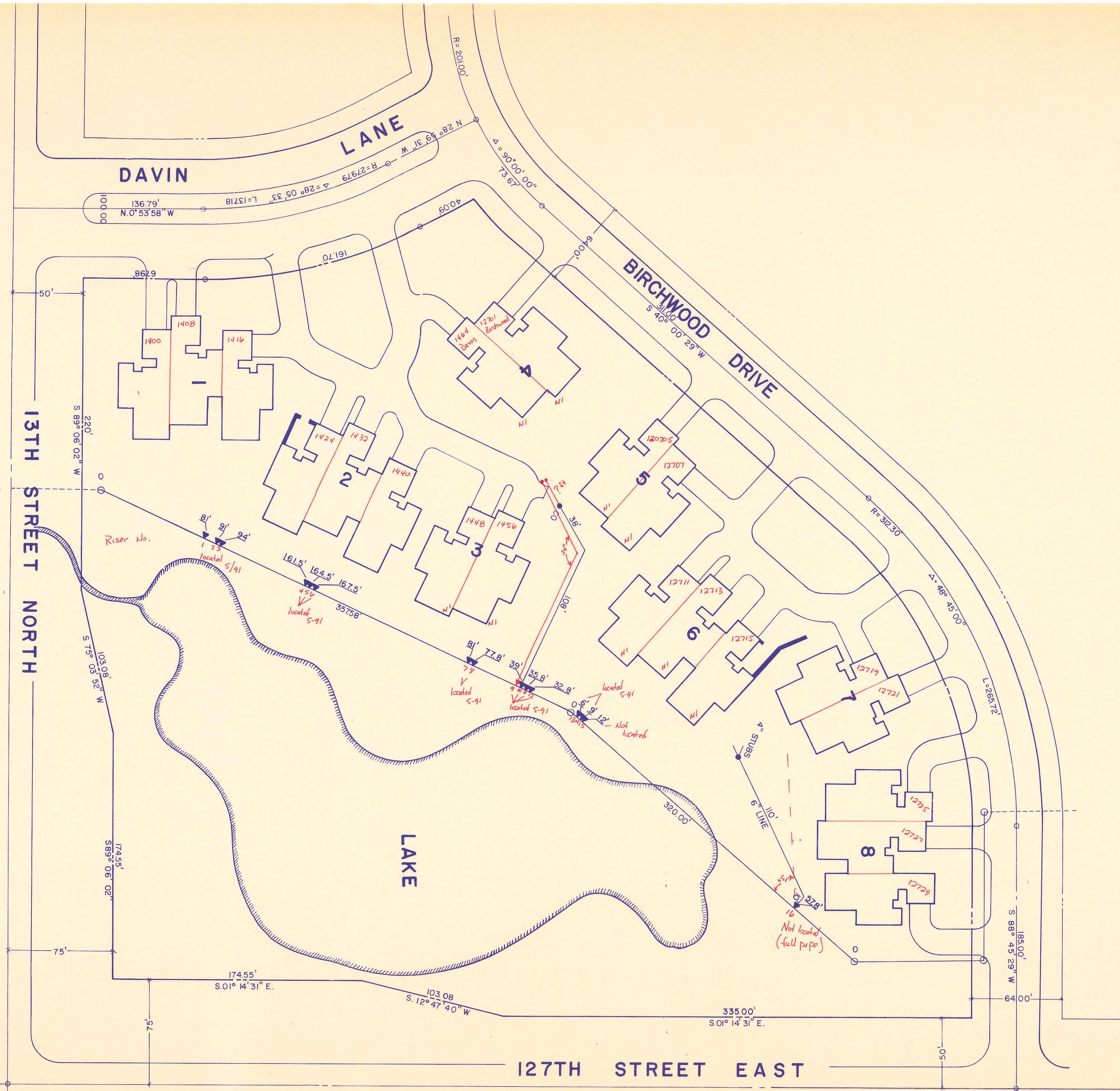
CS-277  
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13'



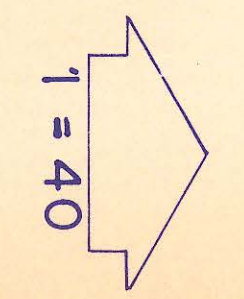


*NI - Property Connected without inspector, to sewer. No inspector called*

*Cable-stone 1471 block 4*



SE CORNER SEC. 10 T27S, R2E

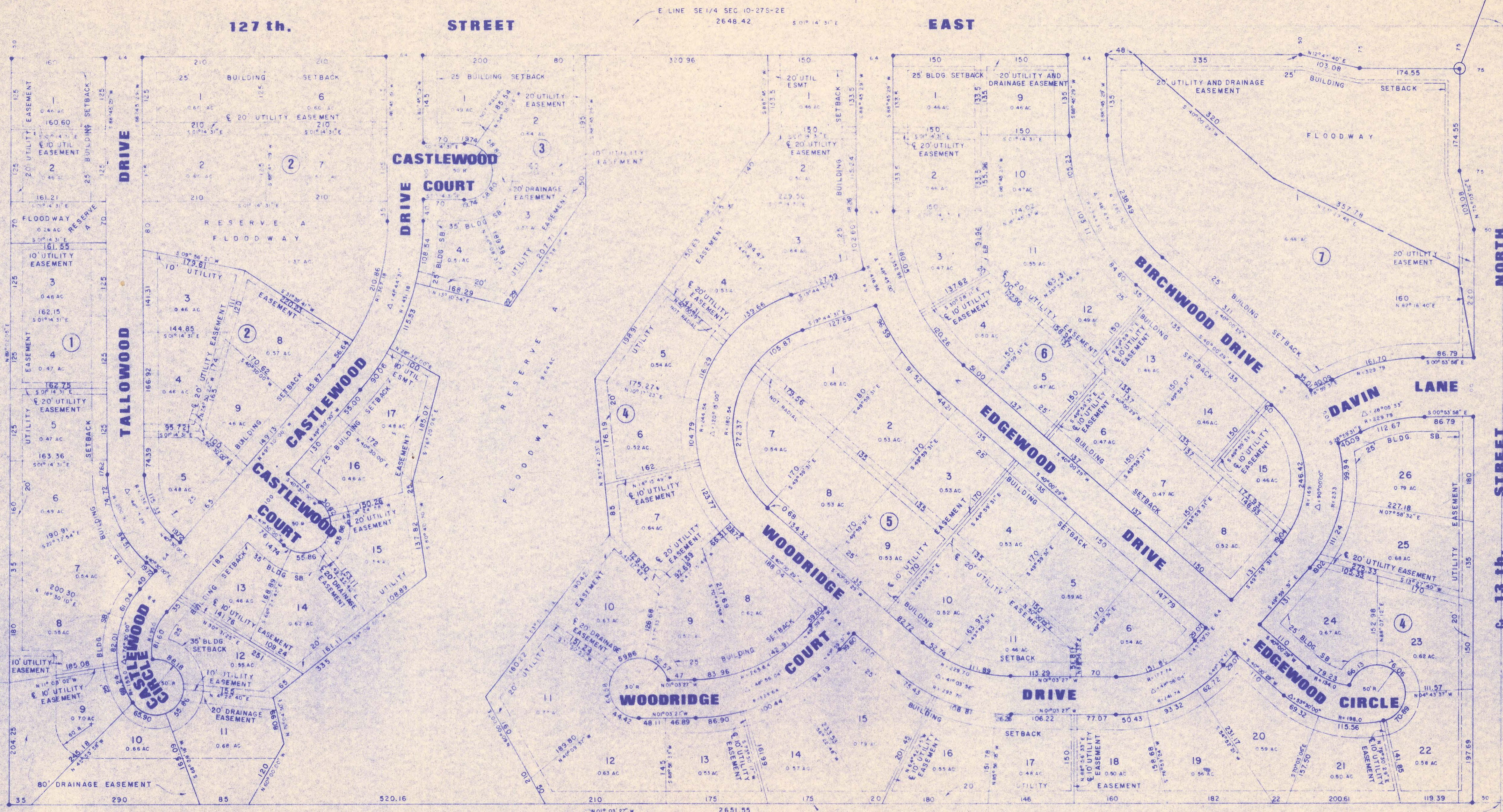


NE COR SE 1/4 OF SEC. 10-275-2E

BENCH MARK = 1352.59  
R.R. SPK. in PP, N.W. Cor. of 13TH & 127TH

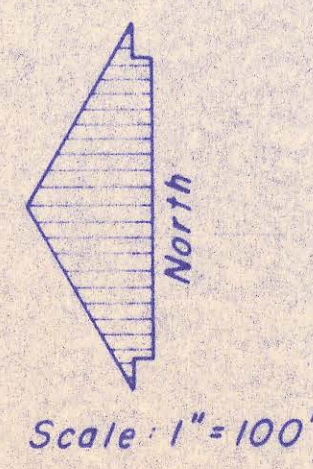
SE COR SEC 10-275-2E  
1" IRON PIPE

COMPLETE ACCESS CONTROL



NW COR E 1/2 SE 1/4 SEC. 10-275-2E

SW COR E 1/2 SE 1/4 SEC. 10-275-2E  
1/2" IRON PIPE



**Legend**  
 3/4" IRON PIPE

**DEBS & GOODNESS ENGINEERS**  
 2100 WEST 21<sup>ST</sup> STREET  
 WICHITA, KANSAS 67204  
 (316) 832-0213

Designed By M. C. Job No. SE 3579  
 Drawn By D. J. Date 10-10-80

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS

PLAT  
 BRIDGEWOOD ADDITION

No.	Revision	1-22-81	DJ
SHEET NO. 3 OF 14			

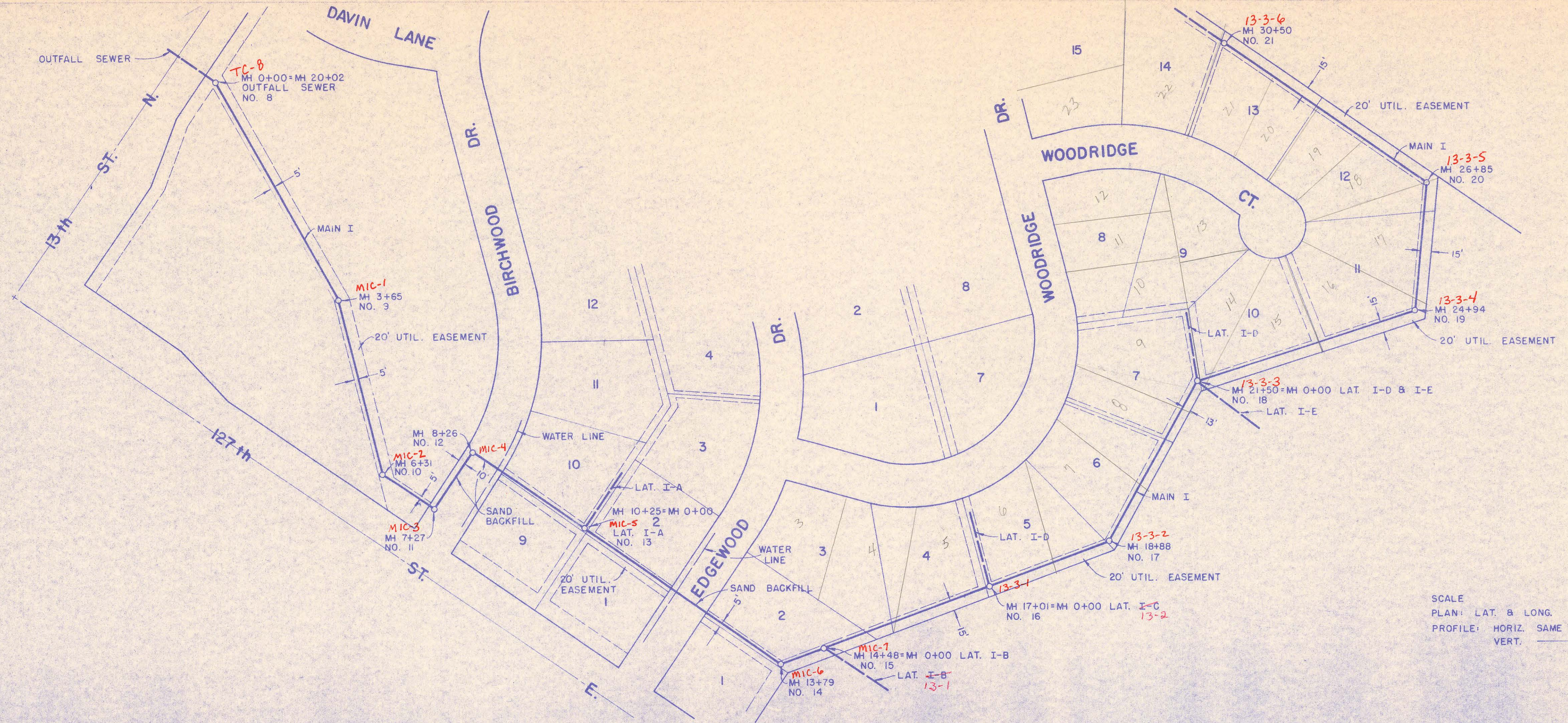
PLAN  
 SURVEYED  
 PLATTED  
 NOTE BOOK NO. 1000  
 DATE 10-10-80

PROFILE  
 SURVEYED  
 PLATTED  
 NOTE BOOK NO. 1000  
 DATE 10-10-80

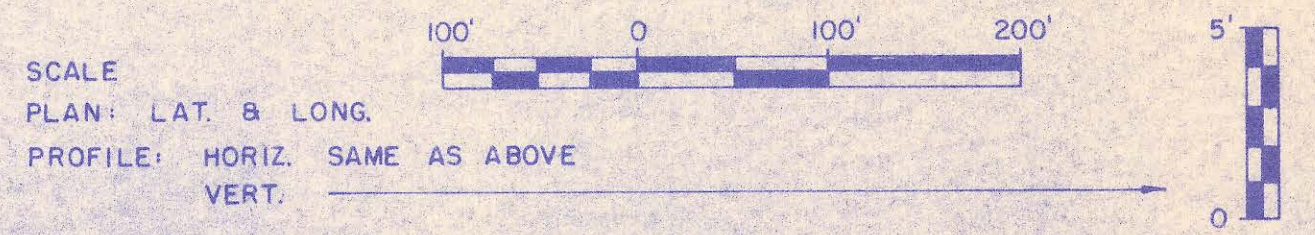
NOTE: ALL ELEVATIONS ARE ON U.S. C.S. DATUM  
 TO ALL ELEVATIONS SHOWN VERT. ONLY TO SCALE  
 DIGITS ADD 1300; 1300 + 42.81 + 1300 = 1342.81

DASHED LINES ON THE GROUND PROFILES  
 SHOW FINISHED GRADE OF THE INITIAL GRADING  
 REQUIRED ON THE STREET IMPROVEMENT AND GRADING  
 PROJECT. THIS WORK MAY BE COMPLETED PRIOR TO  
 SANITARY SEWER INSTALLATION.

STREET AND SEWER CONSTRUCTION SHALL BE  
 COORDINATED THROUGH THE ENGINEER.

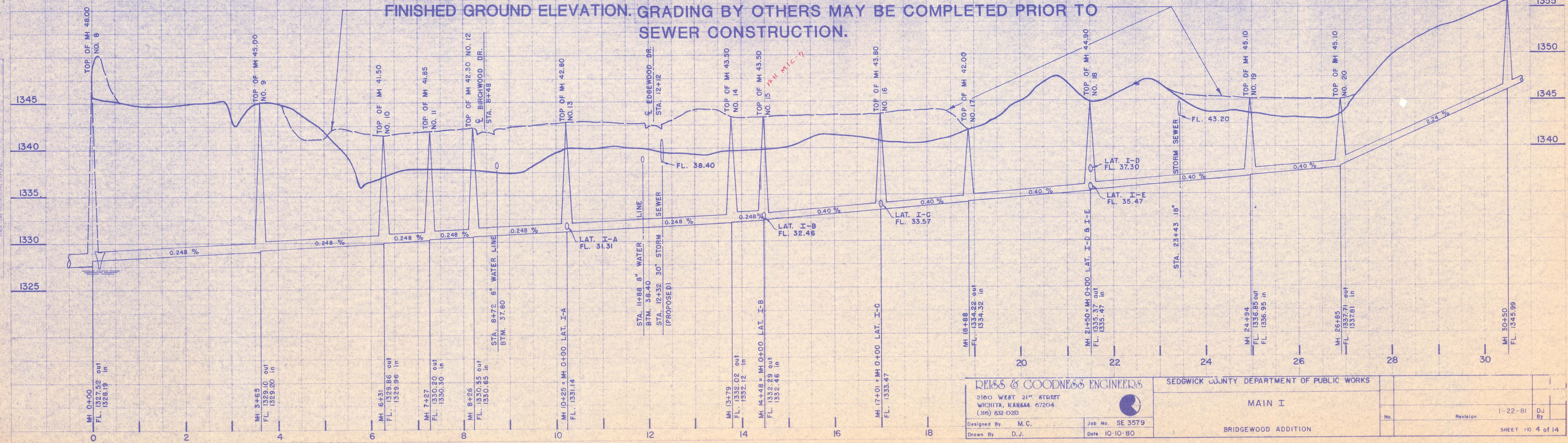


NOTE: THIS SYMBOL IS FOR DRILLED  
 LOCATION AND DEPTH WHERE  
 GROUND WATER WAS FOUND.



**MAIN I**  
**FINISHED GROUND ELEVATION. GRADING BY OTHERS MAY BE COMPLETED PRIOR TO SEWER CONSTRUCTION.**

STA. 0+00 TO STA. 14+48 IS 10"  
 STA. 14+48 TO STA. 30+50 IS 8"

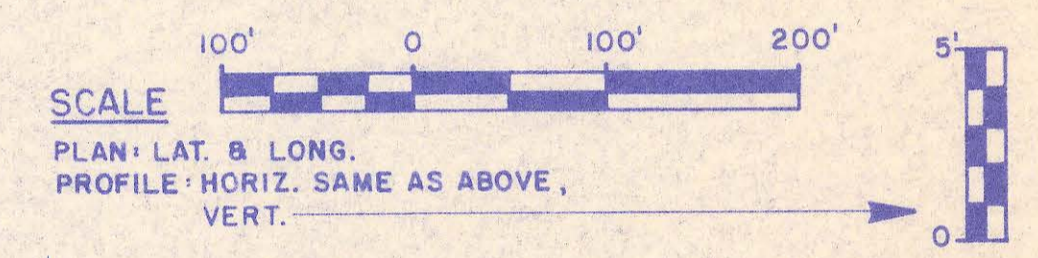
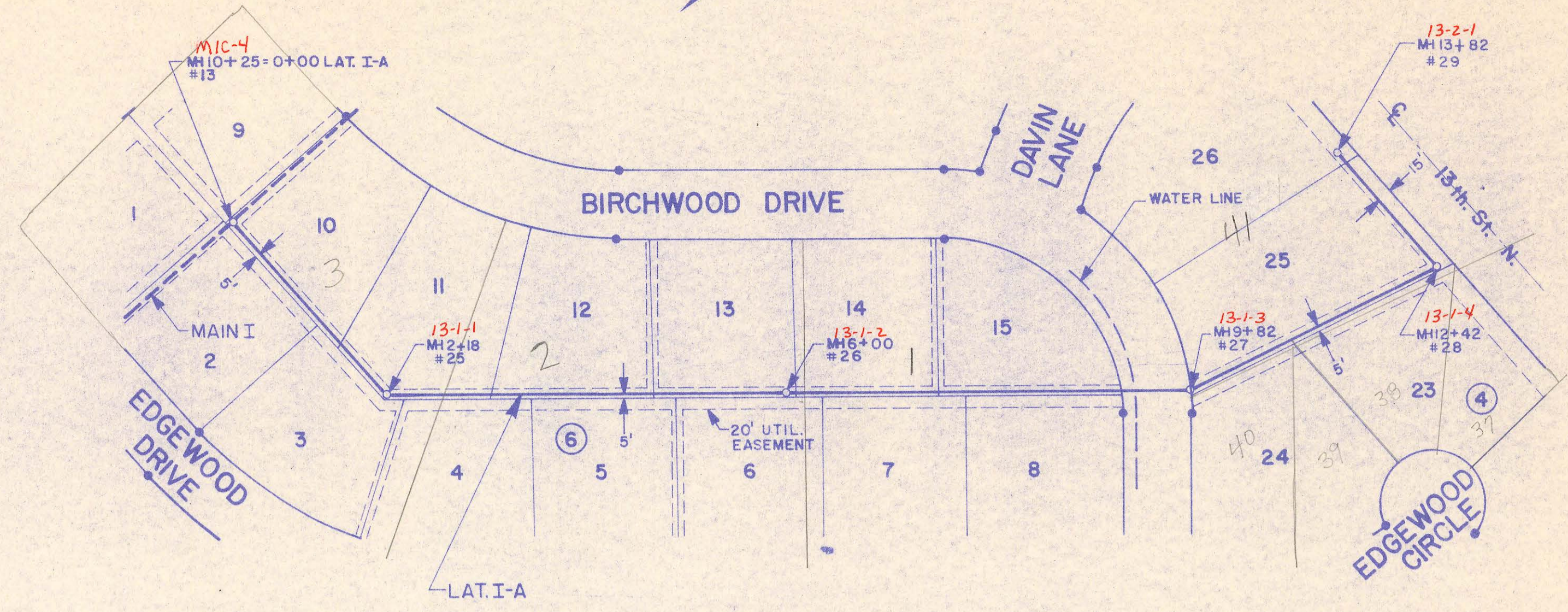
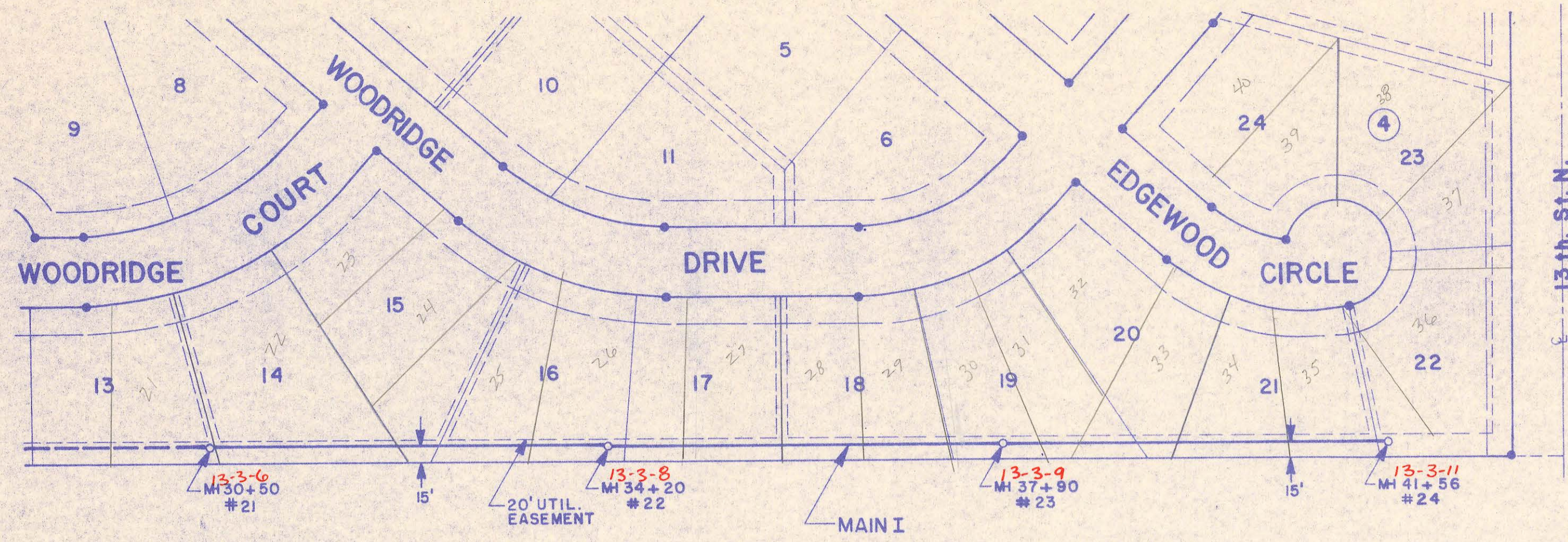


**REISS & GOODNESS ENGINEERS**  
 2100 WEST 21<sup>ST</sup> STREET  
 WICHITA, KANSAS 67204  
 (316) 832-0213

Designed By: M.C.  
 Drawn By: D.J.

Job No. SE 3579  
 Date 10-10-80

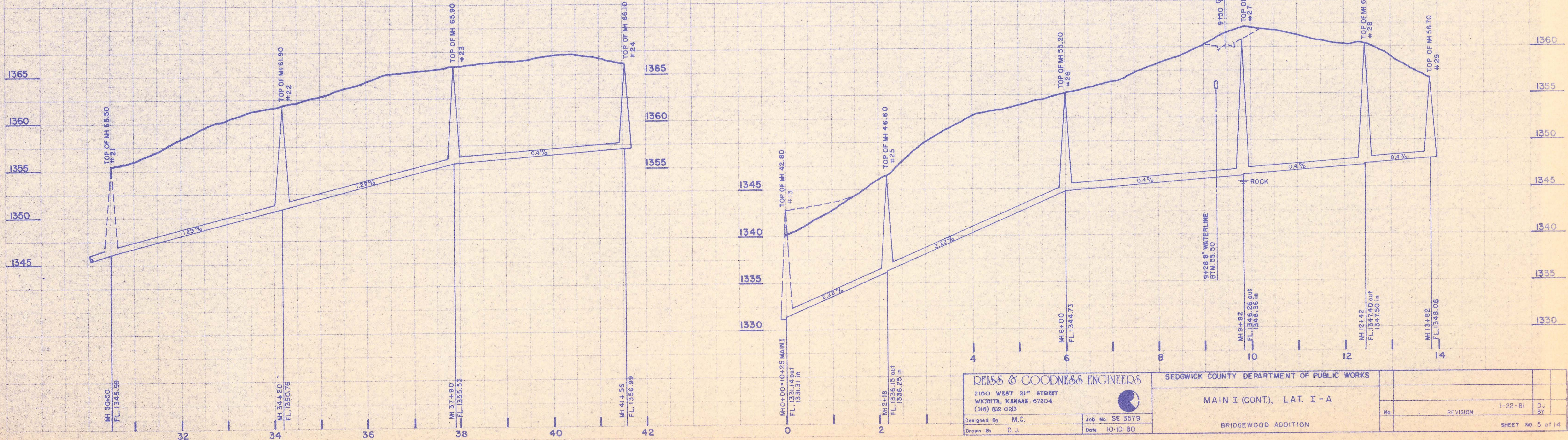
SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS	
<b>MAIN I</b>	
BRIDGEWOOD ADDITION	
No.	Revision
	1-22-81
	DJ
	By
SHEET 110 4 of 14	



**MAIN I (cont.)**

**LATERAL I-A**

NOTE: All Pipe On This Sheet 8"



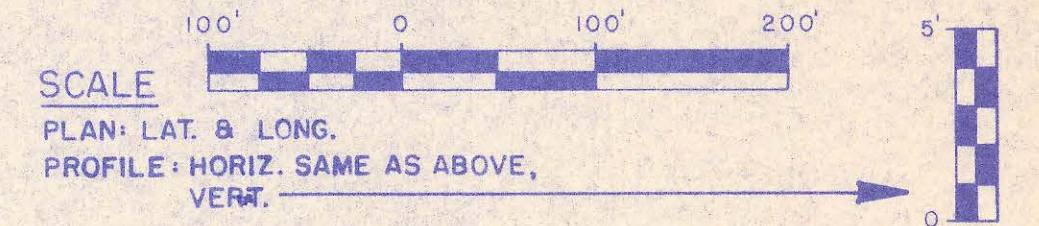
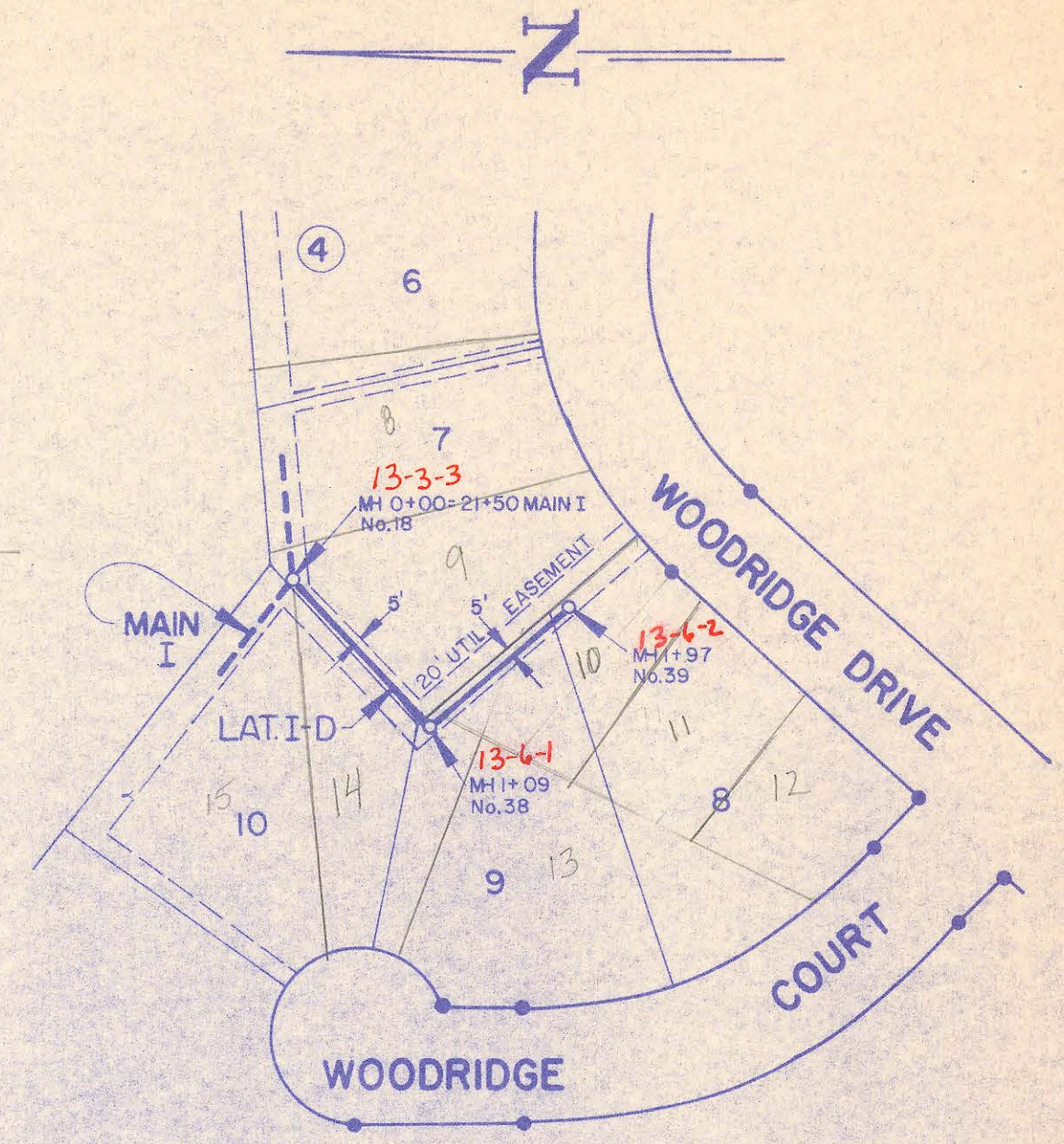
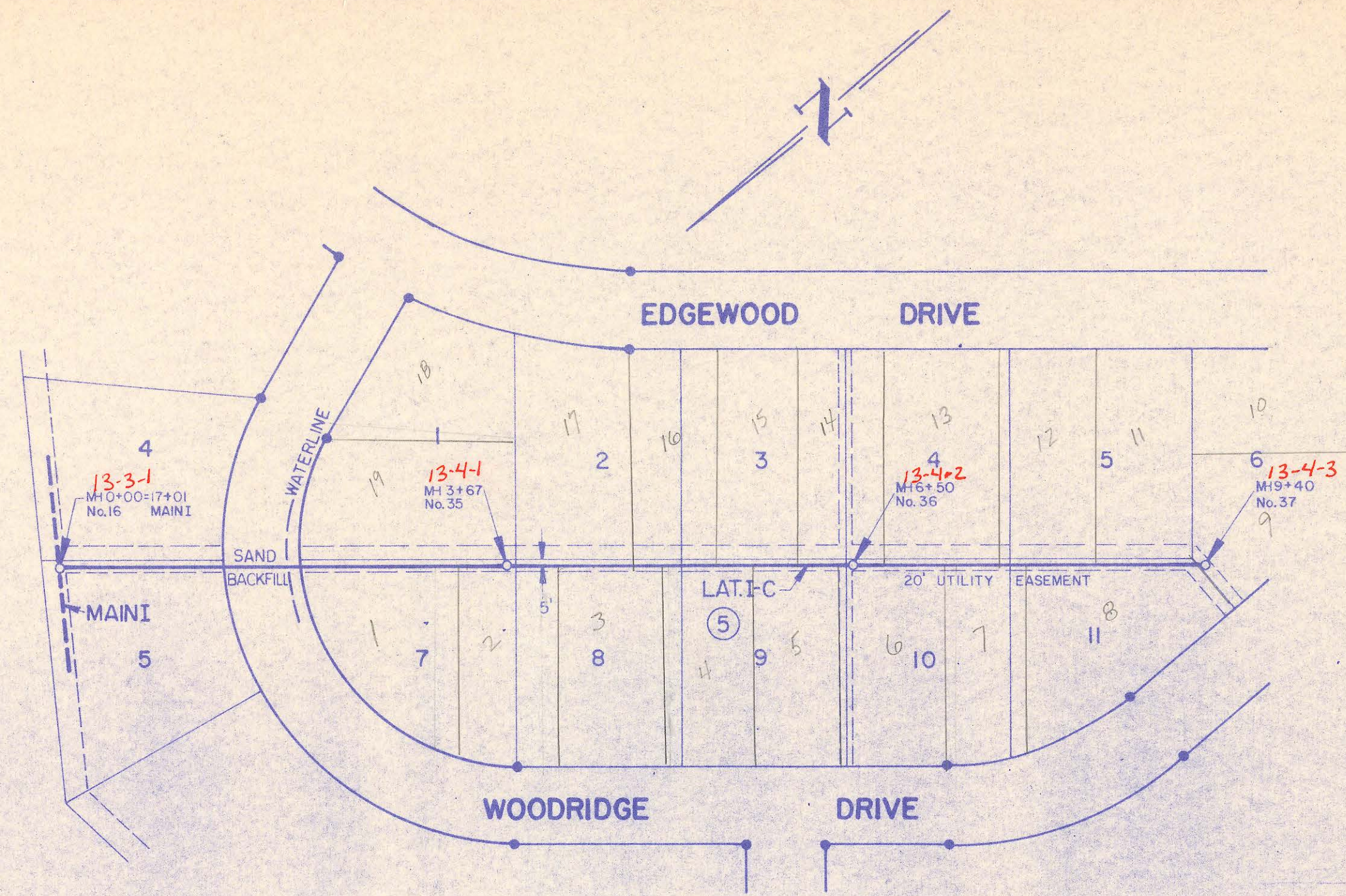
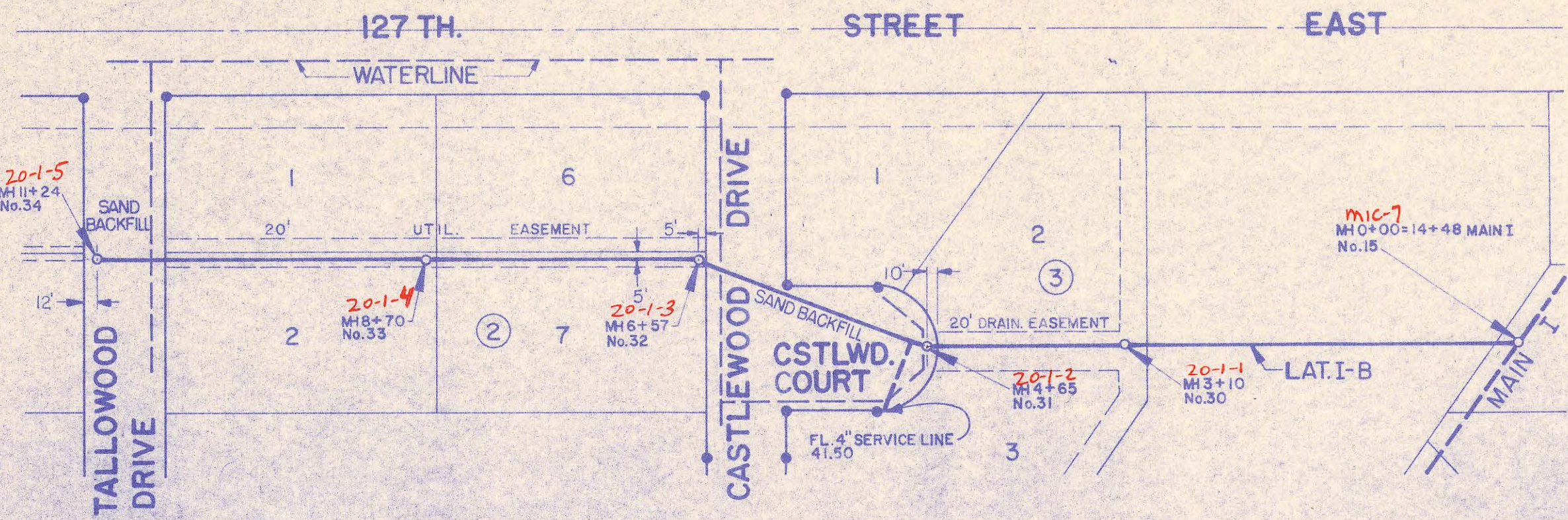
<b>REISS &amp; GOODNESS ENGINEERS</b> 2100 WEST 21 <sup>ST</sup> STREET WICHITA, KANSAS 67204 (316) 832-0213		SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS  MAIN I (CONT.), LAT. I - A  BRIDGEWOOD ADDITION	
Designed By: M.C. Drawn By: D.J.	Job No: SE 3579 Date: 10-10-80	No. REVISION 1-22-81	D.J. BY SHEET NO. 5 of 14

PLAN  
 SUPERVISOR  
 CHECKED  
 NOTE BOOK  
 NO. 13-3-80

PROFILE  
 SUPERVISOR  
 CHECKED  
 NOTE BOOK  
 NO. 13-3-80

**PLAN**  
 SUPERVISOR  
 NOTE BOOK  
 DRAWING CHECKED  
 BY  
 DATE

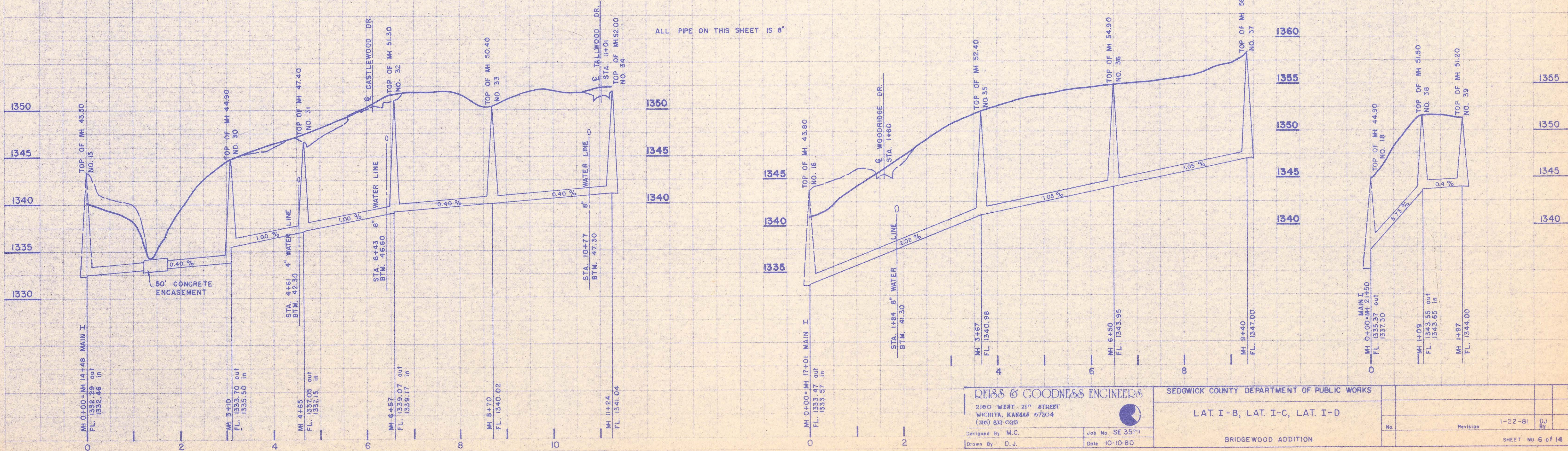
**PROFILE**  
 SUPERVISOR  
 NOTE BOOK  
 DRAWING CHECKED  
 BY  
 DATE



**LATERAL I-B**

**LATERAL I-C**

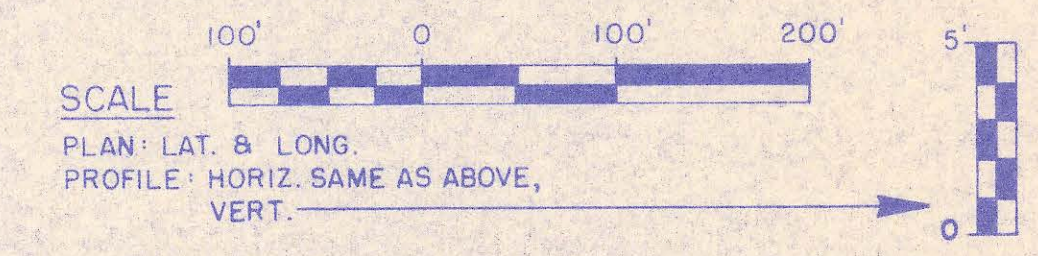
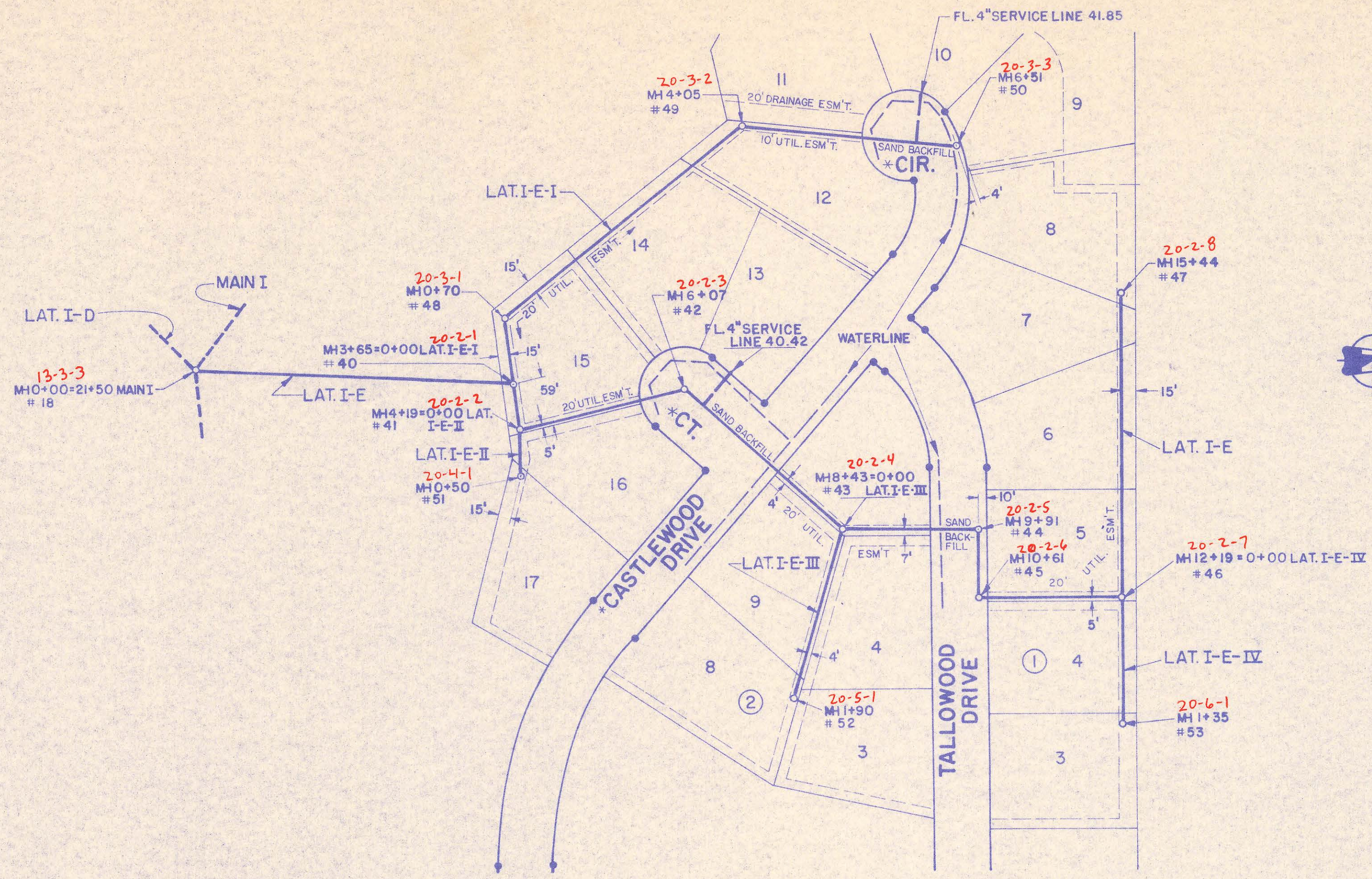
**LATERAL I-D**



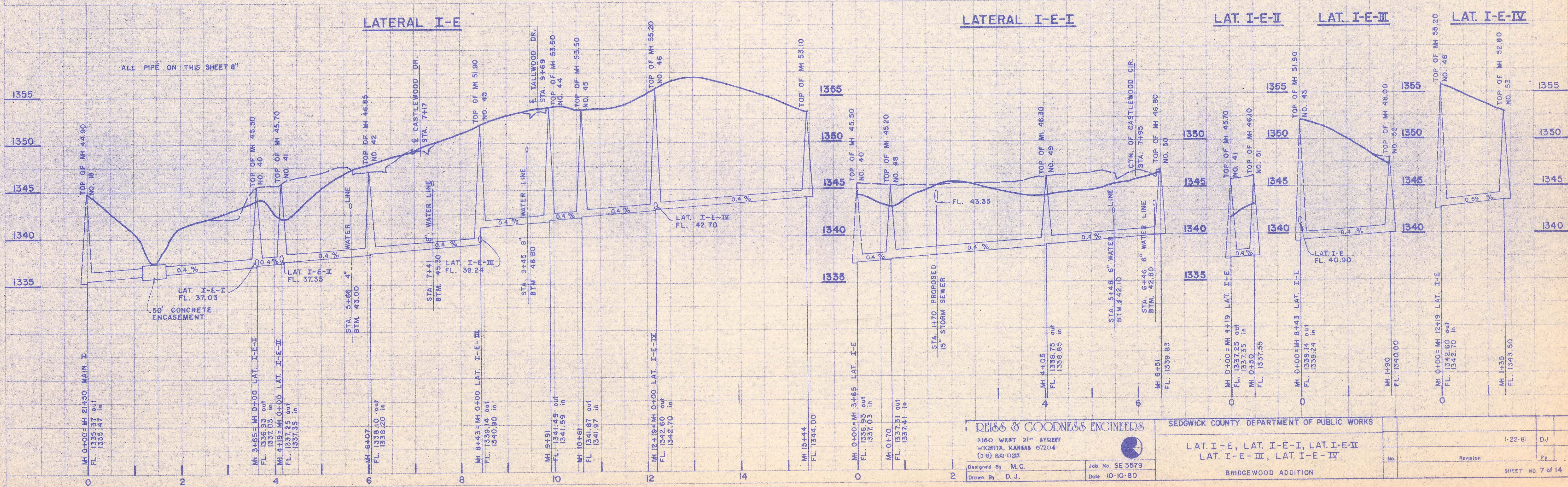
**REISS & GOODNESS ENGINEERS**  
 2100 WEST 31<sup>ST</sup> STREET  
 WICHITA, KANSAS 67204  
 (316) 632-0215  
 Designed By: M.C.  
 Drawn By: D.J.

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS	
LAT. I-B, LAT. I-C, LAT. I-D	
BRIDGEWOOD ADDITION	
No.	Revision
1-22-81	DJ
SHEET NO 6 of 14	

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN  
 NUMBER: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ALIGNMENT CHANGED: \_\_\_\_\_  
 BY OR WHY CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_



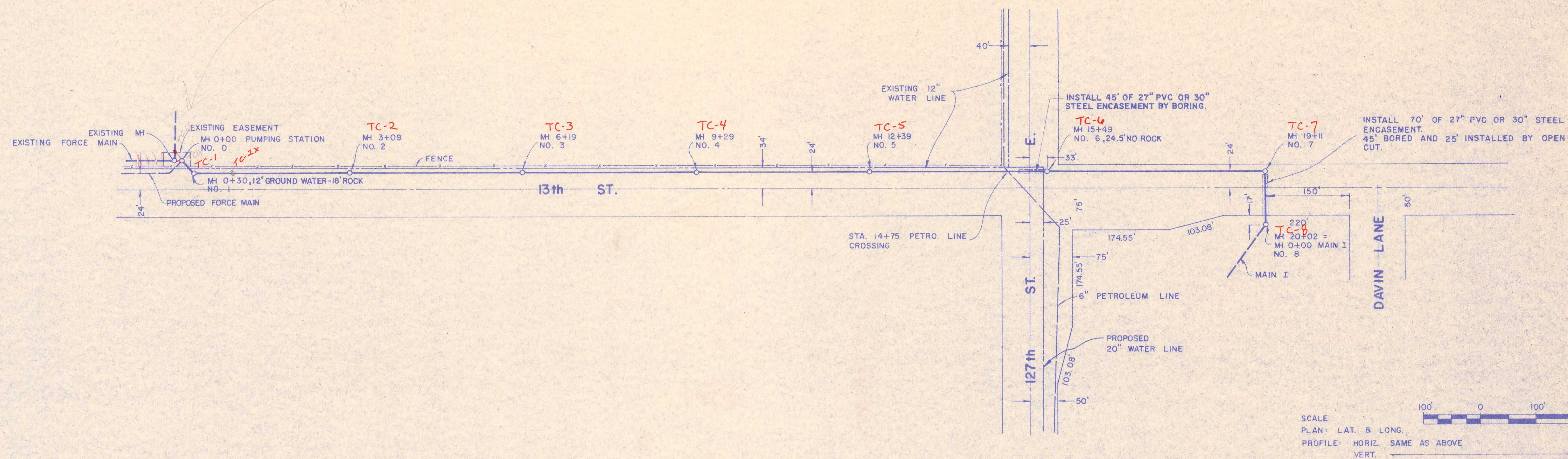
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE  
 NUMBER: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 GRADE CHECKED: \_\_\_\_\_  
 BY OR WHY CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_



**REISS & GOODNESS ENGINEERS**  
 2100 WEST 21<sup>ST</sup> AVENUE  
 WICHITA, KANSAS 67204  
 (316) 832-0233  
 Designed By: M.C.  
 Drawn By: D.J.  
 Job No. SE 3579  
 Date: 10-10-80

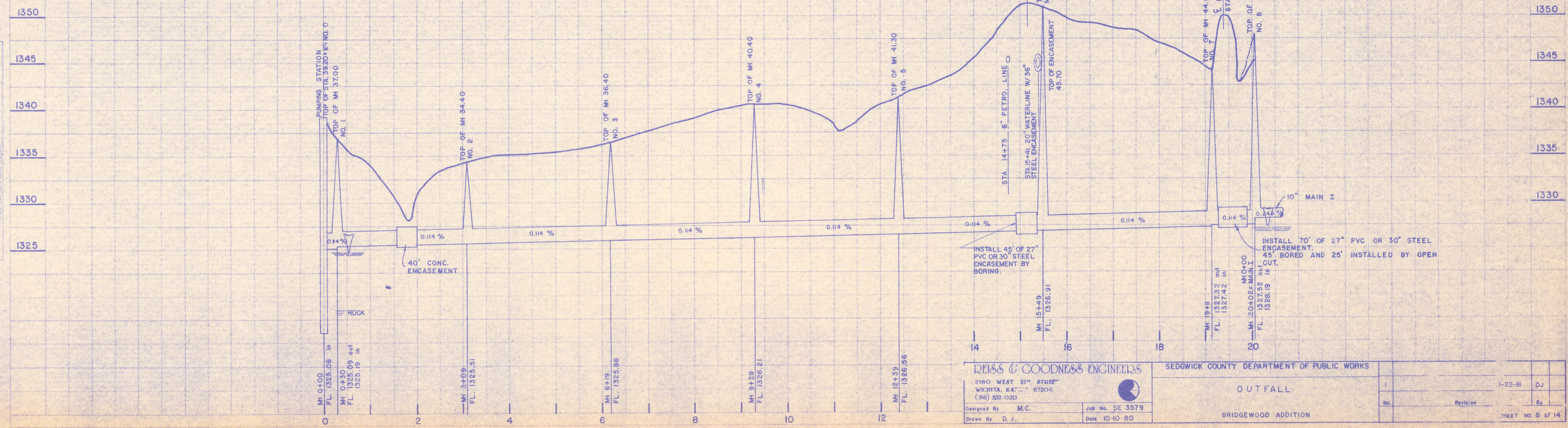
SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS  
 BRIDGWOOD ADDITION  
 L.A.T. I-E, L.A.T. I-E-I, L.A.T. I-E-II  
 L.A.T. I-E-III, L.A.T. I-E-IV  
 No. \_\_\_\_\_ Revision \_\_\_\_\_  
 1-22-81 DJ  
 SHEET NO. 7 of 14

NOTE: CONTRACTOR SHALL NOTIFY CONTINENTAL PIPELINE CO. AT LEAST 10 DAYS PRIOR TO ANY EXCAVATION IN THE VICINITY OF THEIR LINES. (316) 681-2081



**OUTFALL LINE**

ALL PIPE ON THIS SHEET IS 18"

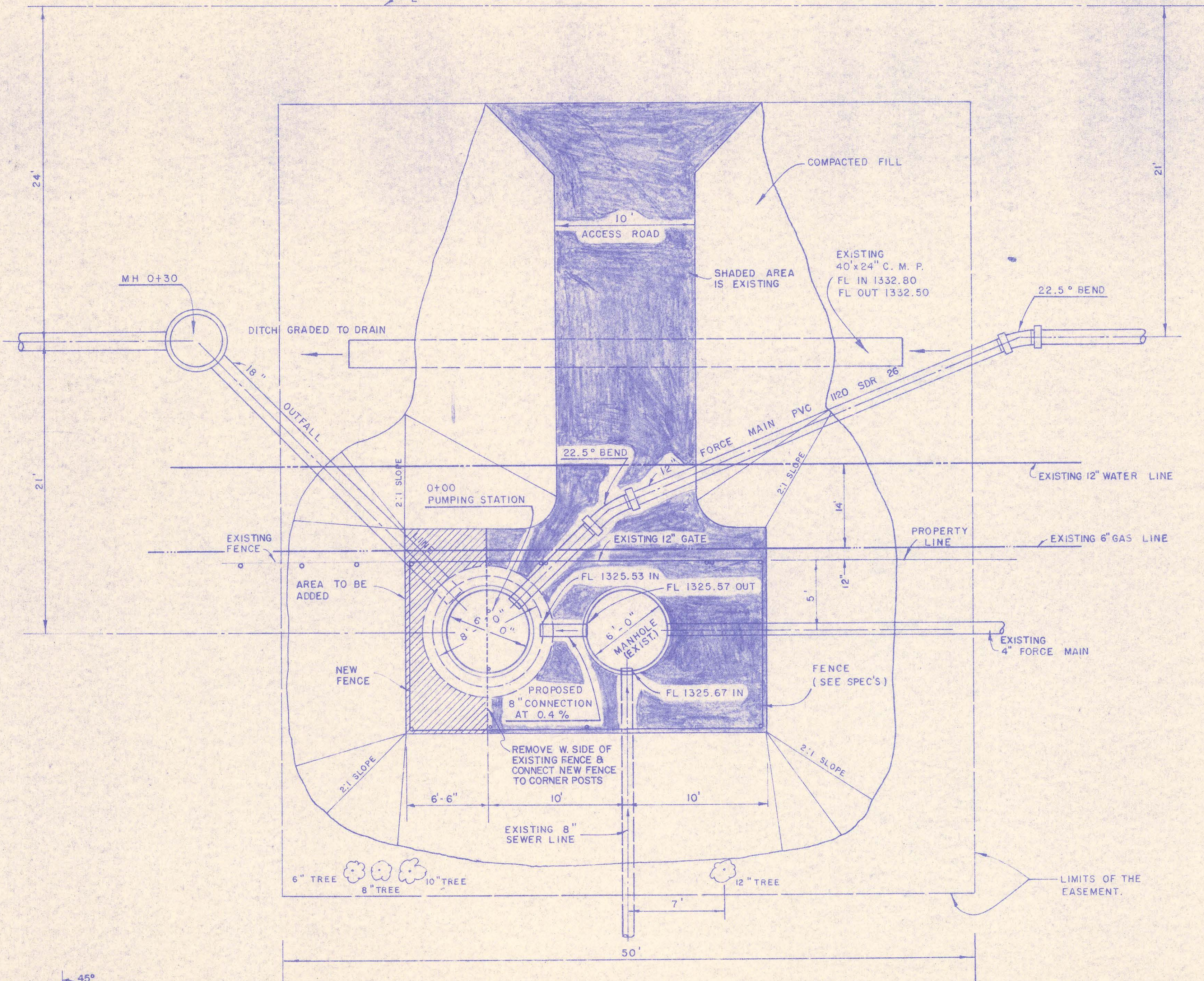


**PLAN**  
 REVISIONS:  
 1. DATE: 10-10-80  
 2. BY: M.C.  
 3. DESCRIPTION: AS SHOWN  
 NOTE BOOK ADJUSTMENT CHECKED BY: M.C.  
 NO. 1

**PROFILE**  
 REVISIONS:  
 1. DATE: 10-10-80  
 2. BY: M.C.  
 3. DESCRIPTION: AS SHOWN  
 NOTE BOOK ADJUSTMENT CHECKED BY: M.C.  
 NO. 1

**REISS & GOODNESS ENGINEERS**  
 2160 WEST 21<sup>ST</sup> STREET  
 WICHITA, KANSAS 67204  
 (316) 832-0210  
 Designed By: M.C.  
 Drawn By: D.J.  
 Job No. SE 3579  
 Date 10-10-80

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS		OUTFALL		I-22-81 DJ	
BRIDGEWOOD ADDITION		No. Revision		By	
				SHEET NO. 8 OF 14	



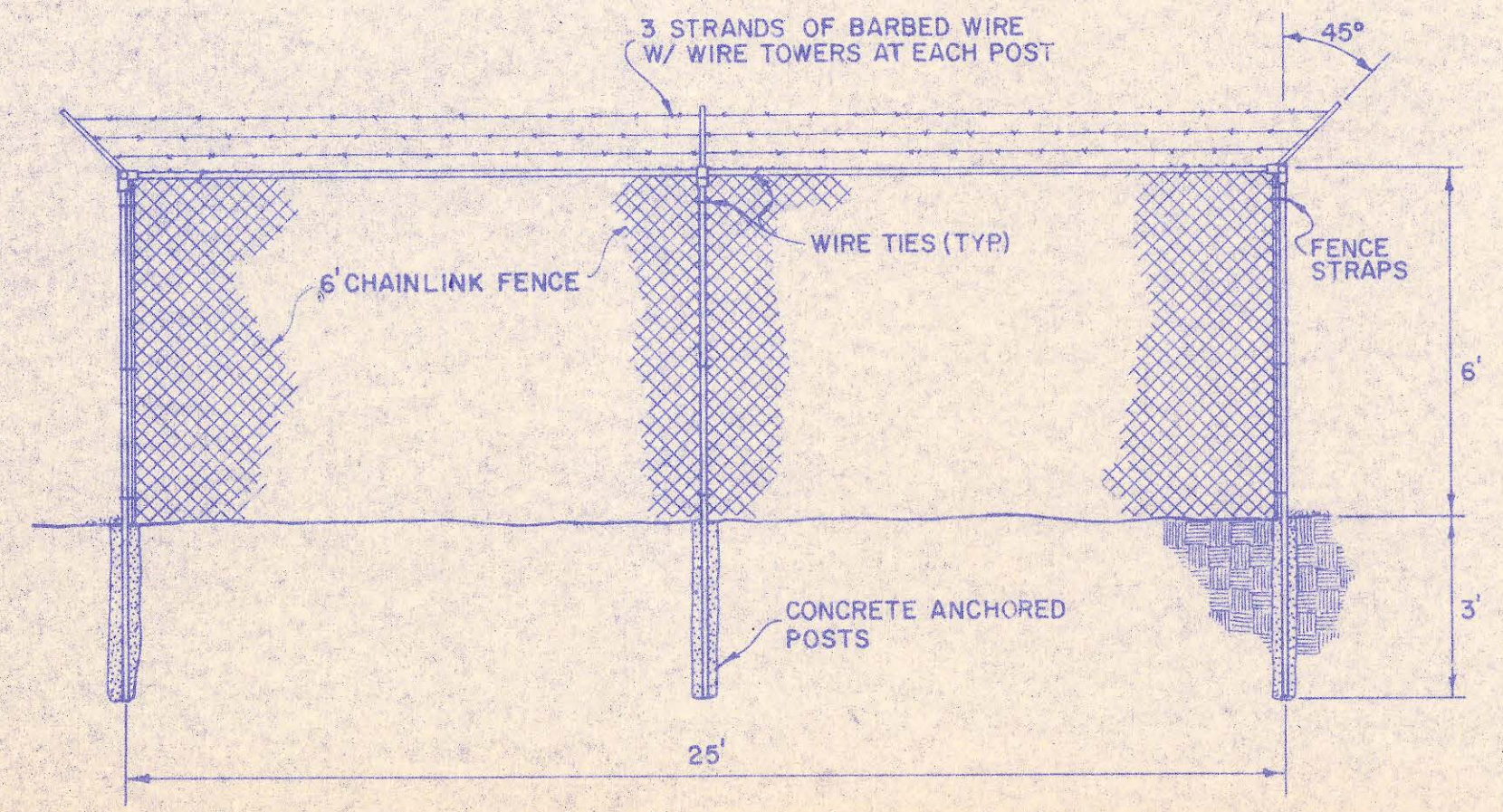
NO SCALE

NOTE:  
 EXIST. PUMPING STATION TO BE REMOVED AND TRANSPORTED TO THE CRESTVIEW SEWAGE TREATMENT PLANT AND THEN A FLAT TOP POUR ON TOP OF THE EXIST. WET WELL. A 300# RING AND COVER SHALL BE INSTALLED IN THE FLAT TOP.

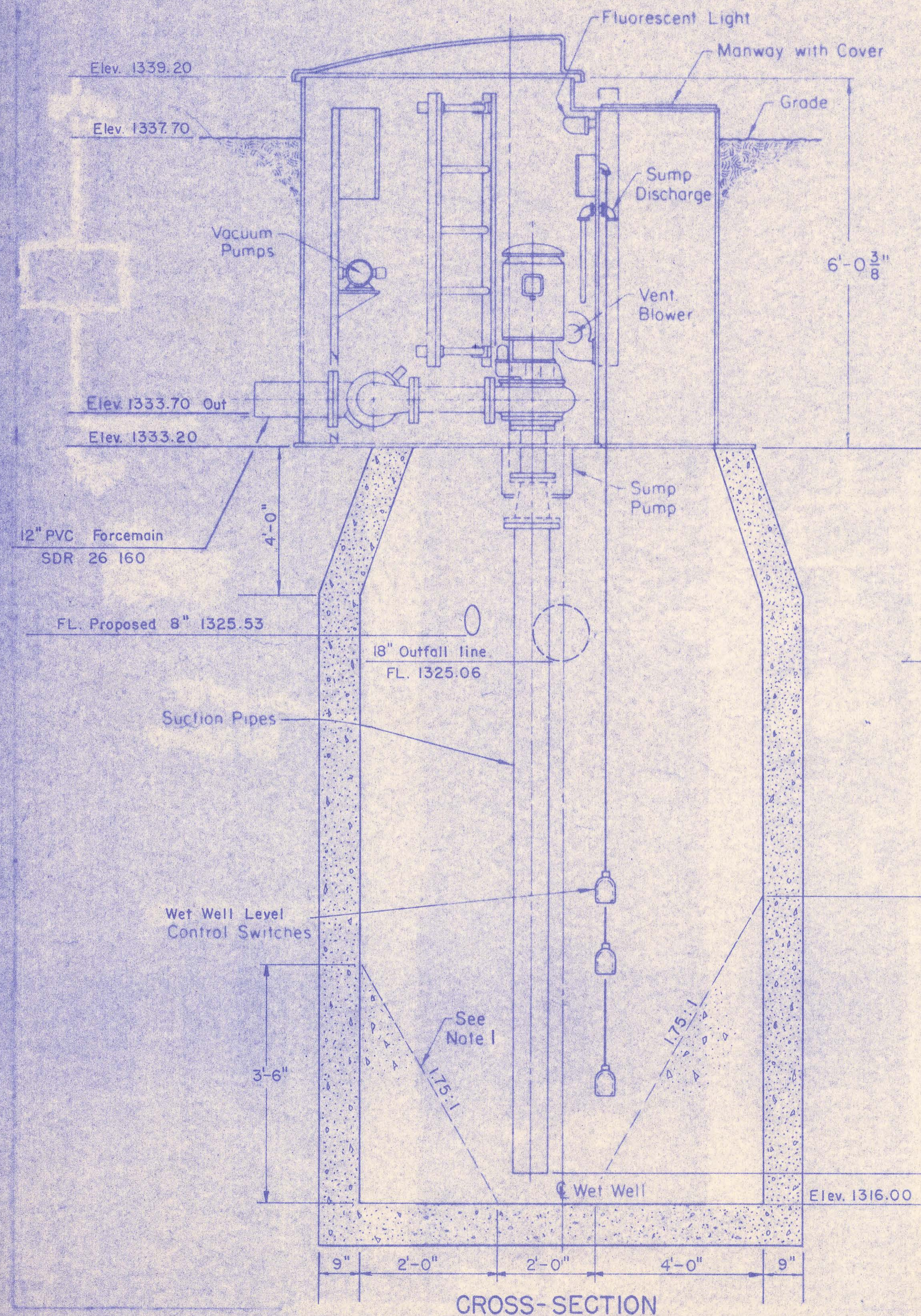
SIDE SLOPES GRADED AND MULCHED ACCORDING TO ENGINEERS DIRECTION.

A - MULCH SHALL CONSIST OF EITHER STRAW, NATIVE PRAIRIE HAY, OR EXCELSIOR. THE MATERIAL SHALL BE SPREAD UNIFORMLY OVER ALL THE AREA EXCEPT THE GRAVEL AREA TO A THICKNESS OF 1 1/2" OF LOOSE MEASUREMENT.

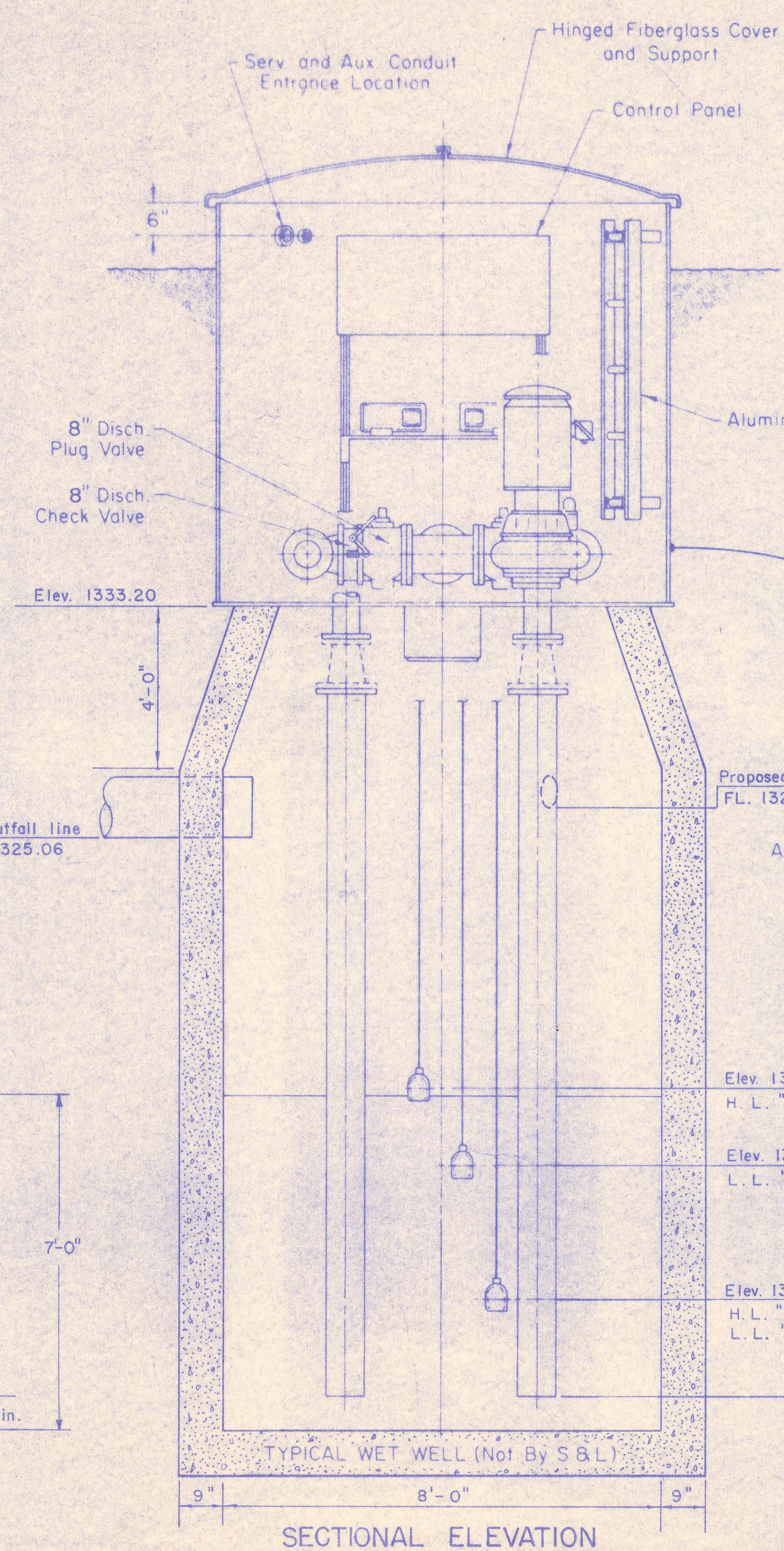
B - GRASS SEEDING SHALL CONSIST OF FESQUE IN SUFFICIENT QUANTITY TO COVER THE AREA TO THE APPROVAL OF THE ENGINEER.



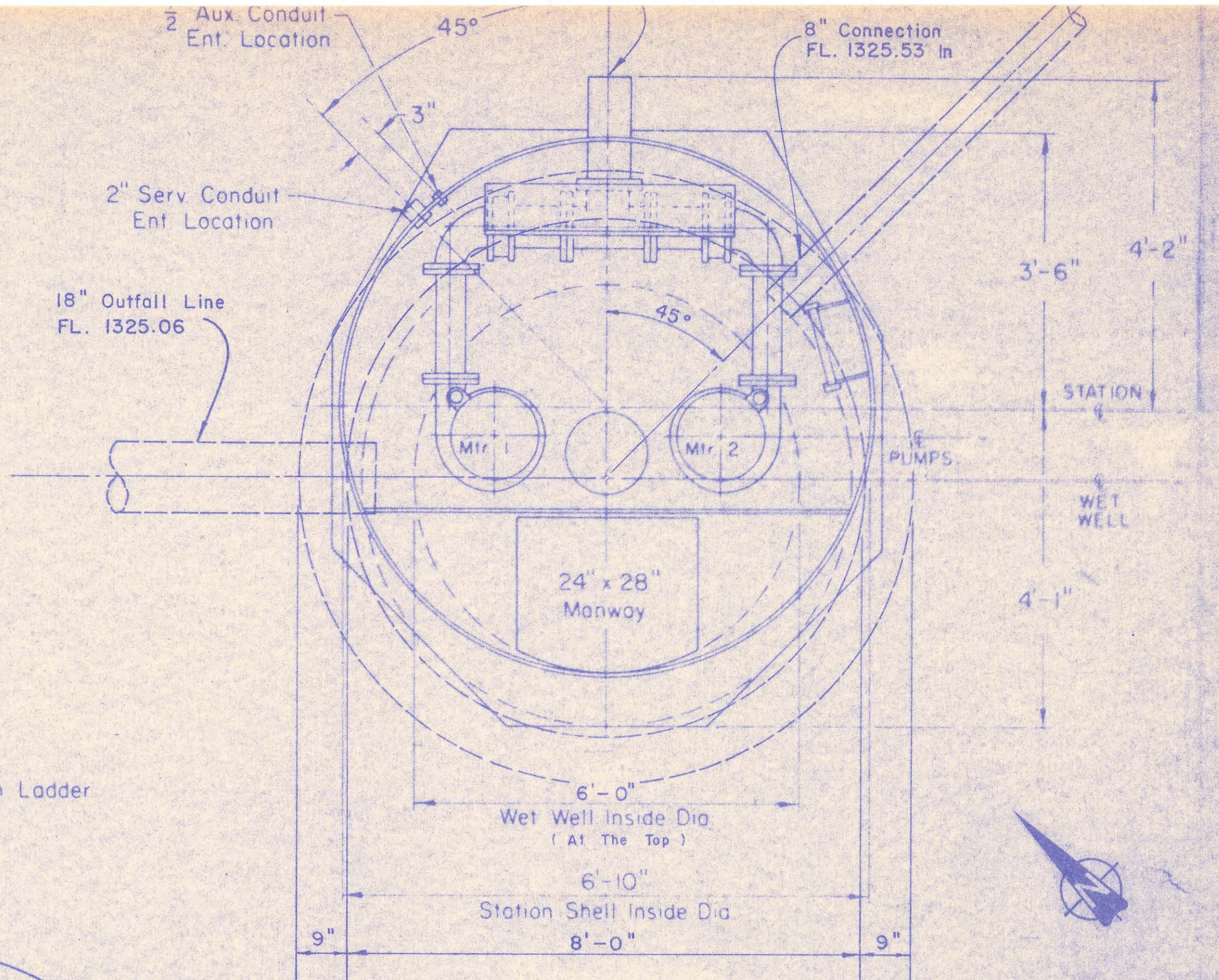
<b>DEISS &amp; GOODNESS ENGINEERS</b> 2100 WEST 21 <sup>ST</sup> STREET WICHITA, KANSAS 67204 (316) 632-0215		SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS	
Designed By M. C. Drawn By D.J.		Job No SE 3579 Date 10-10-80	
PUMPING STATION LAYOUT		BRIDGEWOOD ADDITION	
2		1-22-81 DJ	
No. 1 12-30-80		Revision By	
		SHEET NO. 9 of 14	



CROSS-SECTION



SECTIONAL ELEVATION



PLAN VIEW

TYPICAL WET WELL (Not By S & L)

HIGH WATER AL. 1323.95	9'-3"
Elev. 1320.87 H. L. "ON"	12'-4"
Elev. 1320.37 L. L. "ON"	12'-10"
Elev. 1318.20 "OFF"	15'-2"
LOW WATER AL. 1317.62	15'-10"

REV. 2/95

Notes  
 1. Provide 60° Slope in Wet Well as Required.  
 700 G.P.M. at 38' T.D.H. Operating Singly (2)

NO SCALE

REISS & GOODNESS ENGINEERS  
 2100 WEST 21<sup>ST</sup> STREET  
 WICHITA, KANSAS 67204  
 (316) 632-0253  
 Designed By M. C. Job No. SE 3579  
 Drawn By D. J. Date 10-10-80

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS  
 PUMPING STATION DETAILS  
 BRIDGEWOOD ADDITION

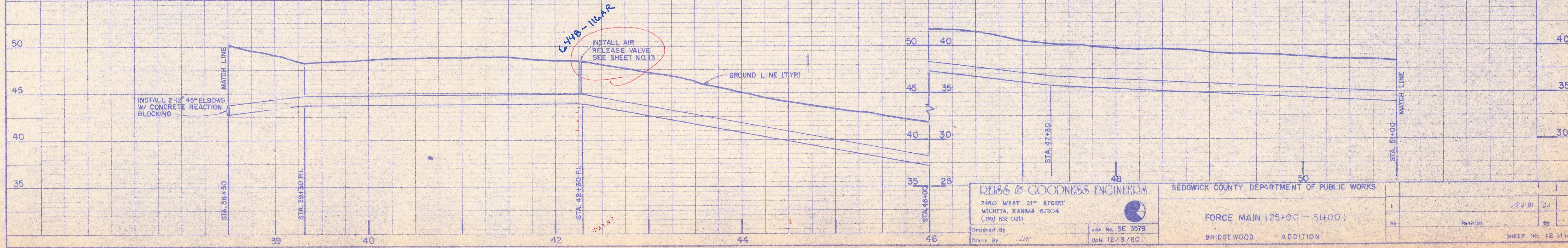
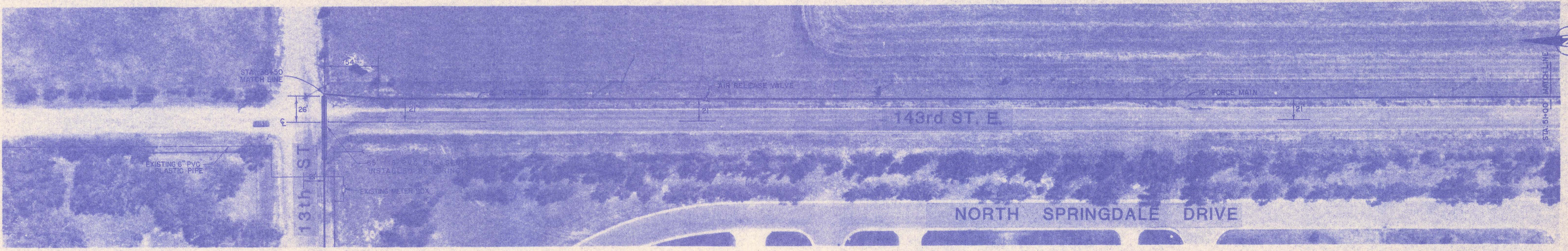
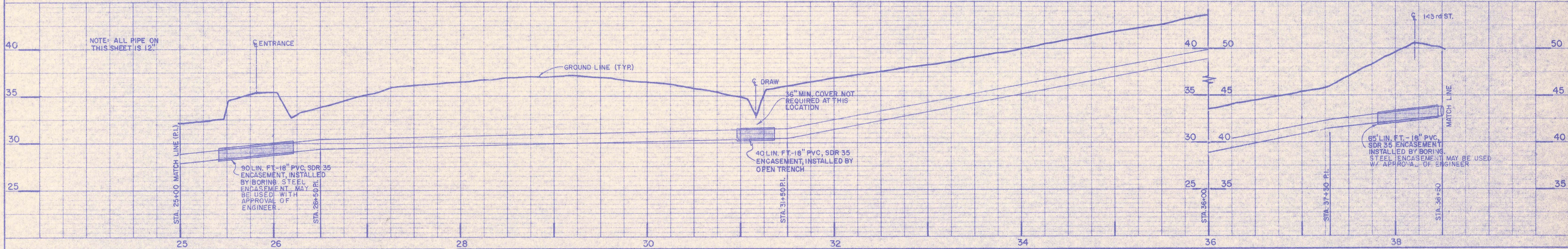
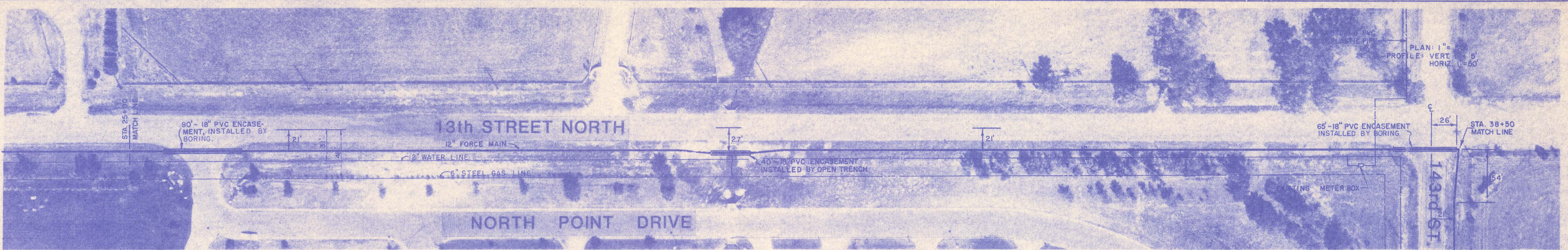
No.	Revision	By
1	1-22-81	DJ

SHEET NO. 10 of 14



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
No.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
No.	



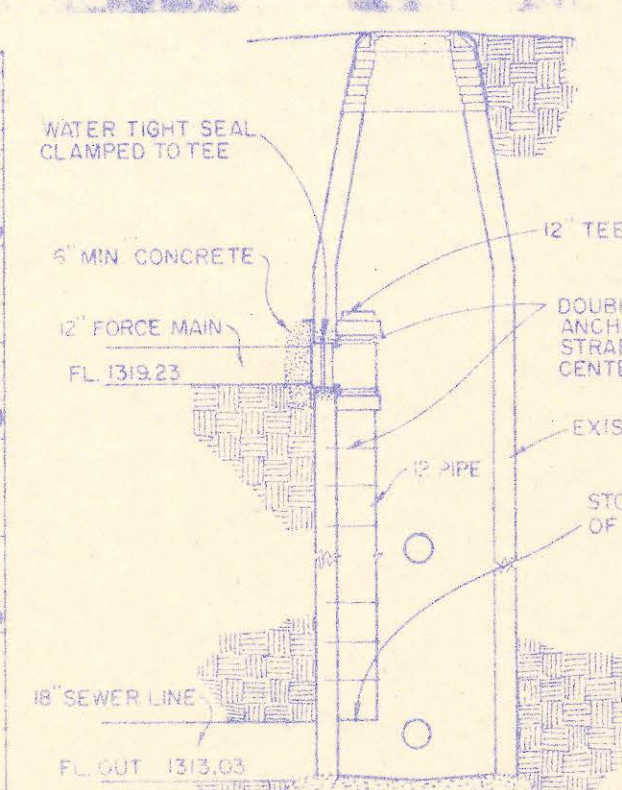
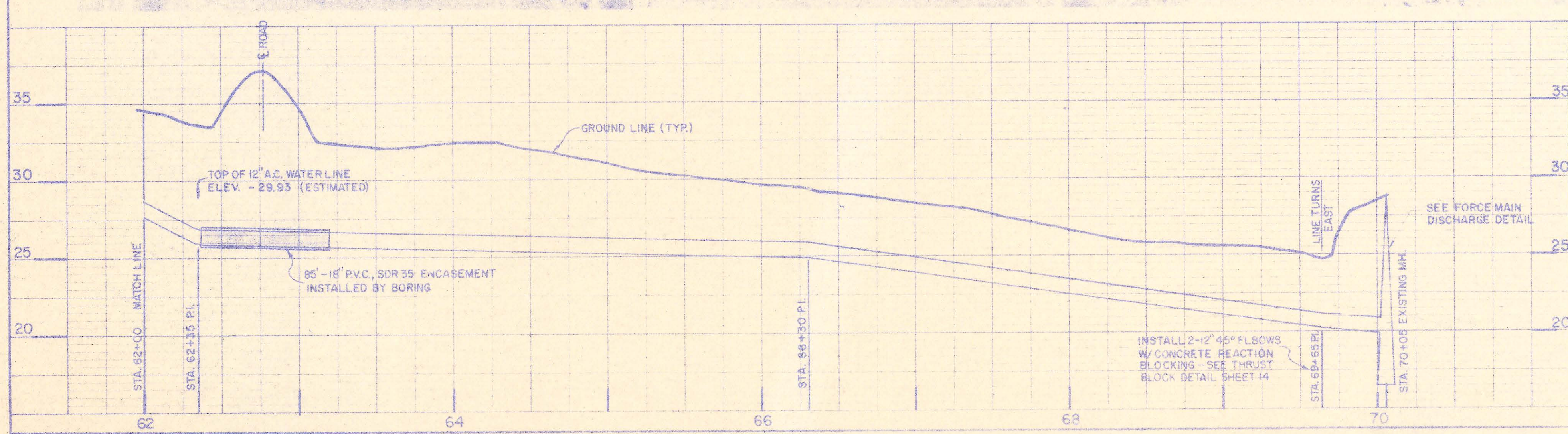
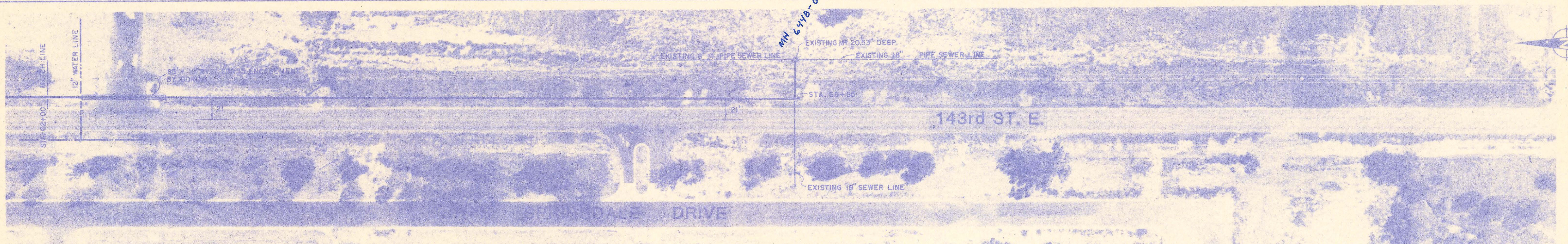
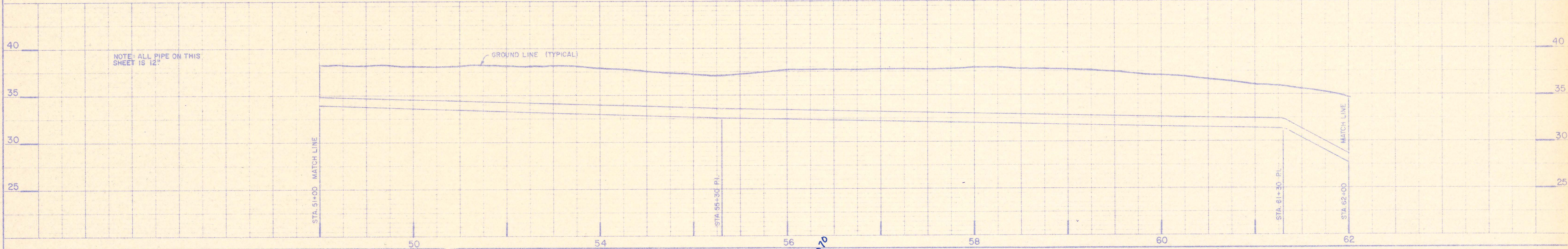
**REISS & GOODNESS ENGINEERS**  
 2100 WEST 21<sup>ST</sup> STREET  
 WICHITA, KANSAS 67204  
 (316) 832-0210

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS  
**FORCE MAIN (25+00 - 51+00)**  
 BRIDGEWOOD ADDITION

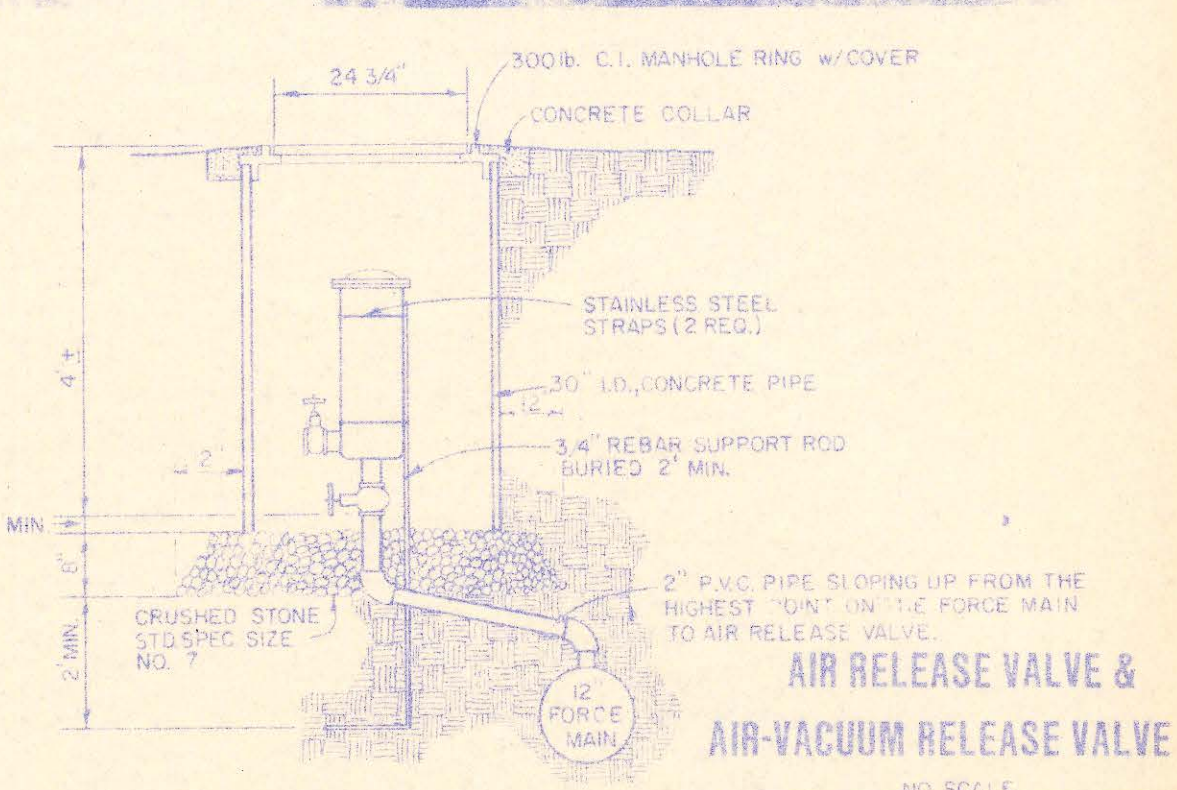
No.	Revision	By

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
PLAN	
NOTE BOOK	
No.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
PROFILE	
NOTE BOOK	
No.	



FORCE MAIN DISCHARGE DETAIL  
NO SCALE

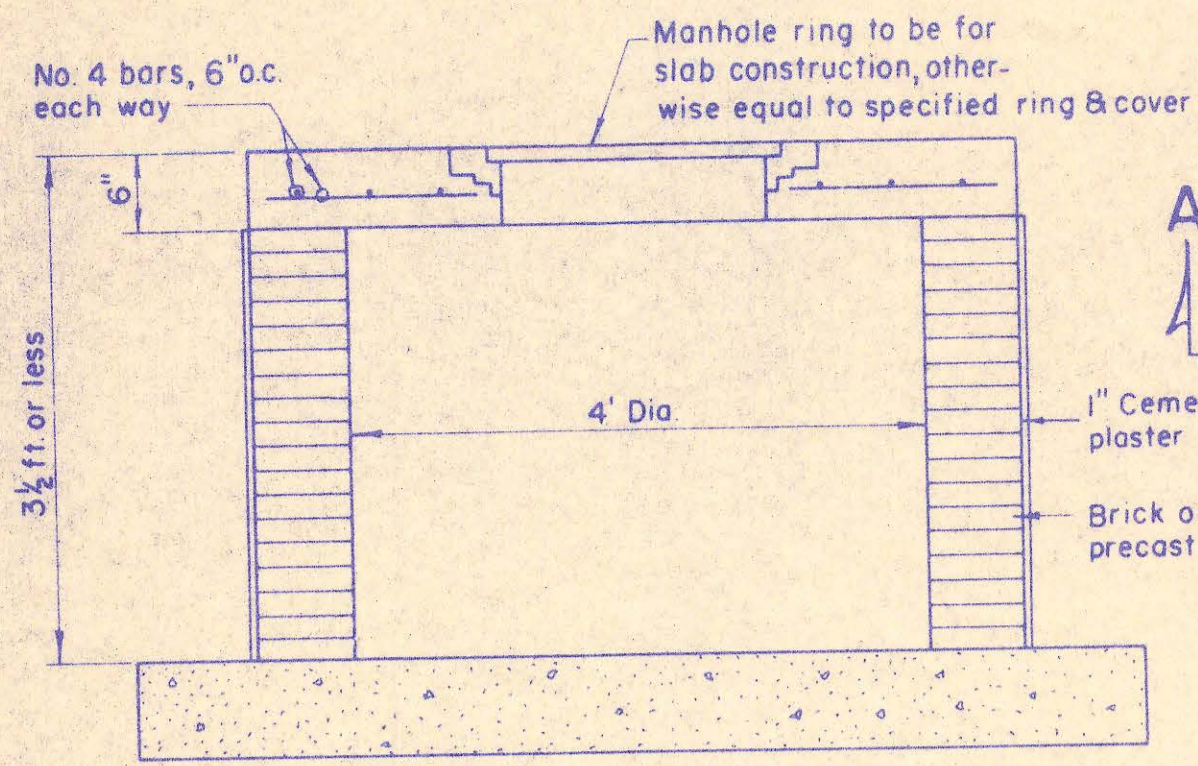


AIR RELEASE VALVE & AIR-VACUUM RELEASE VALVE  
NO SCALE

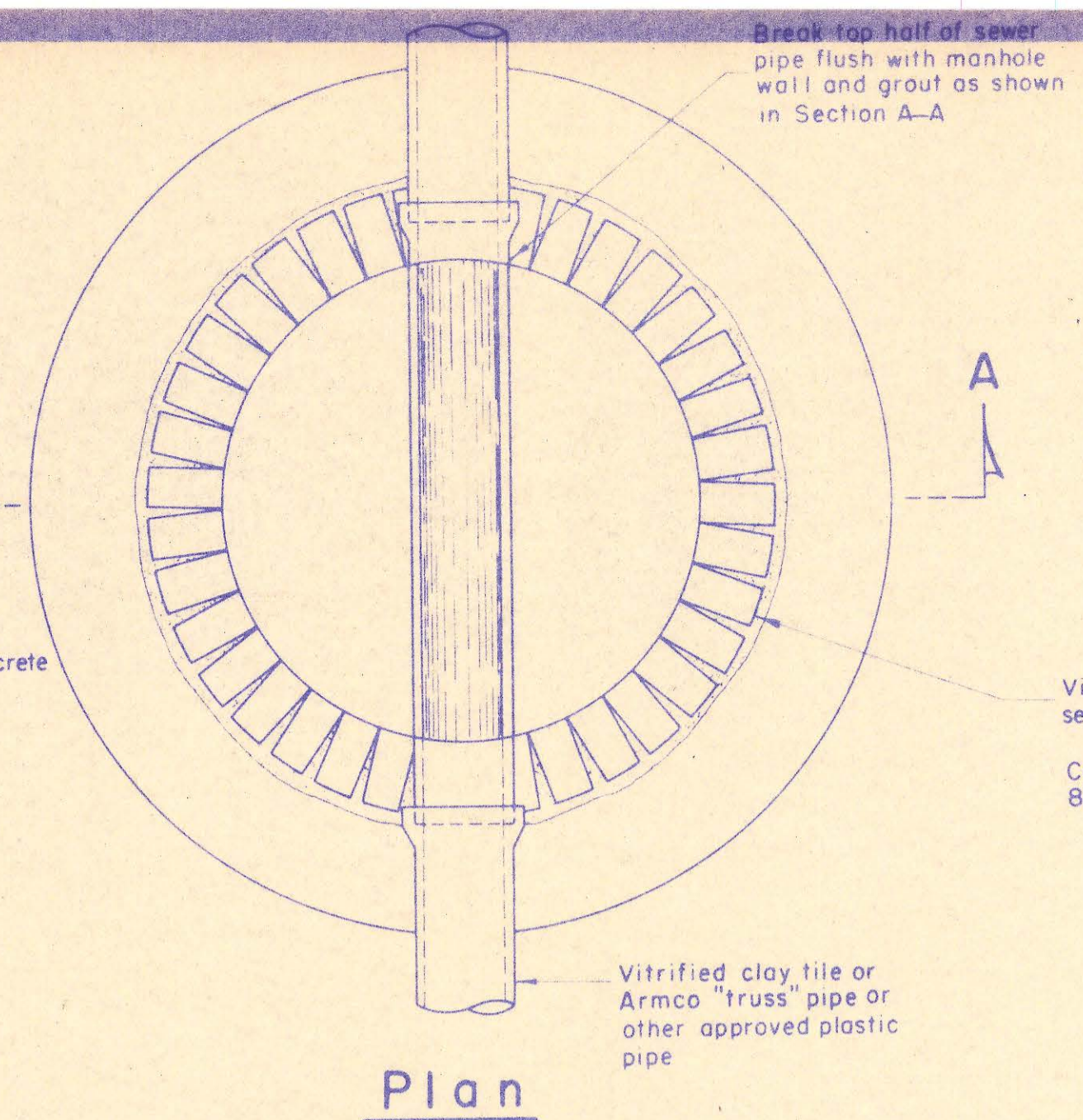
<b>REISS &amp; GOODNESS ENGINEERS</b> 2100 WEST 21 <sup>ST</sup> STREET WICHITA, KANSAS 67204 (316) 632-0233		SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS	
Designed By: _____ Drawn By: _____	Job No: SE 3579 Date: 12/8/80	FORCE MAIN (51+00 TO 70+05) BRIDGEWOOD ADDITION	1 1:22 Bl. DJ No. _____ Revision _____ By _____ SHEET NO. 13 of 14

K-E

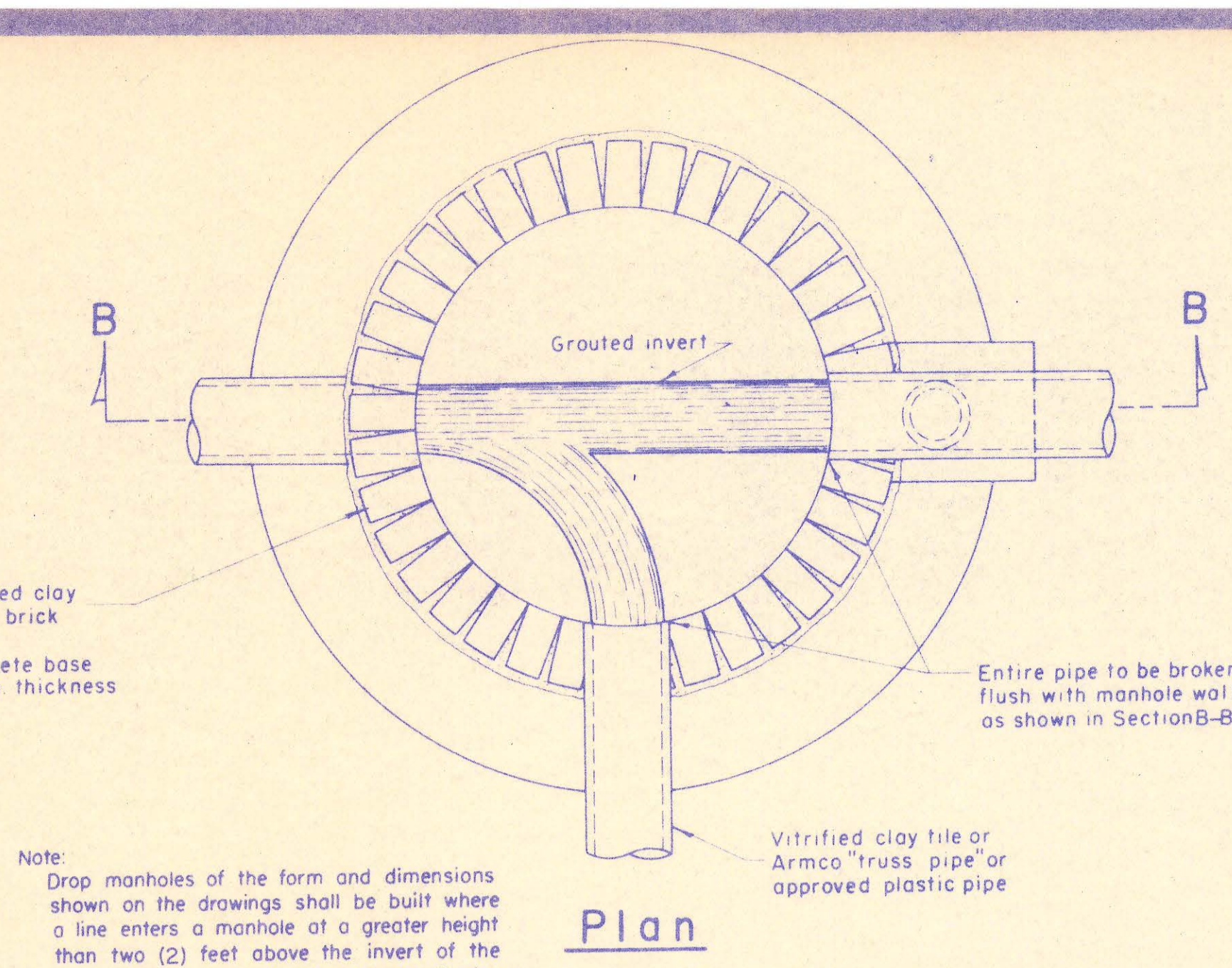
NOTE: Manholes 3 1/2 ft. deep or less shall be constructed without a cone section but with a 6" thick reinforced concrete slab top.



**Shallow Manhole**  
Scale: 3/4" = 1'-0"

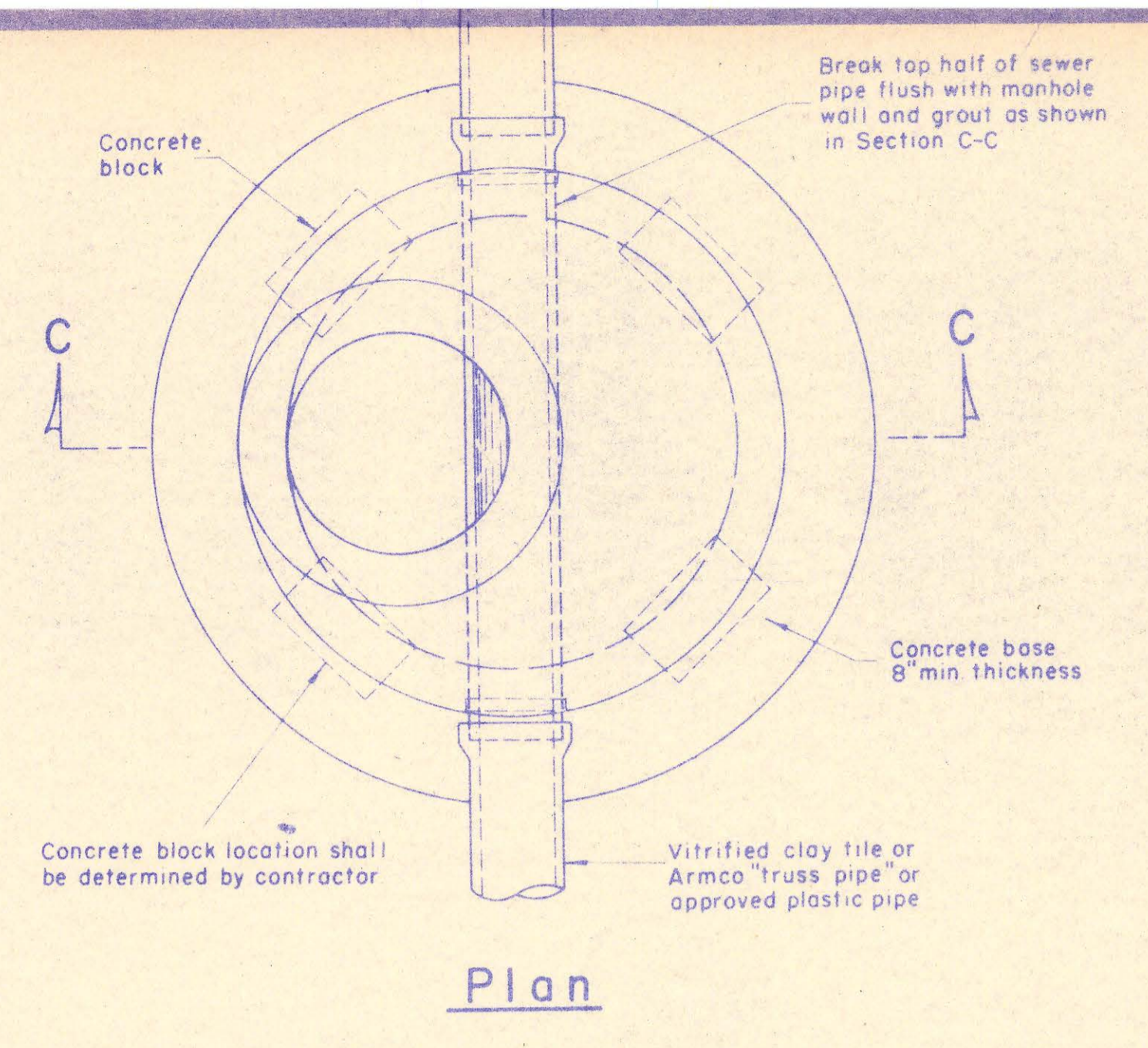


**Plan**

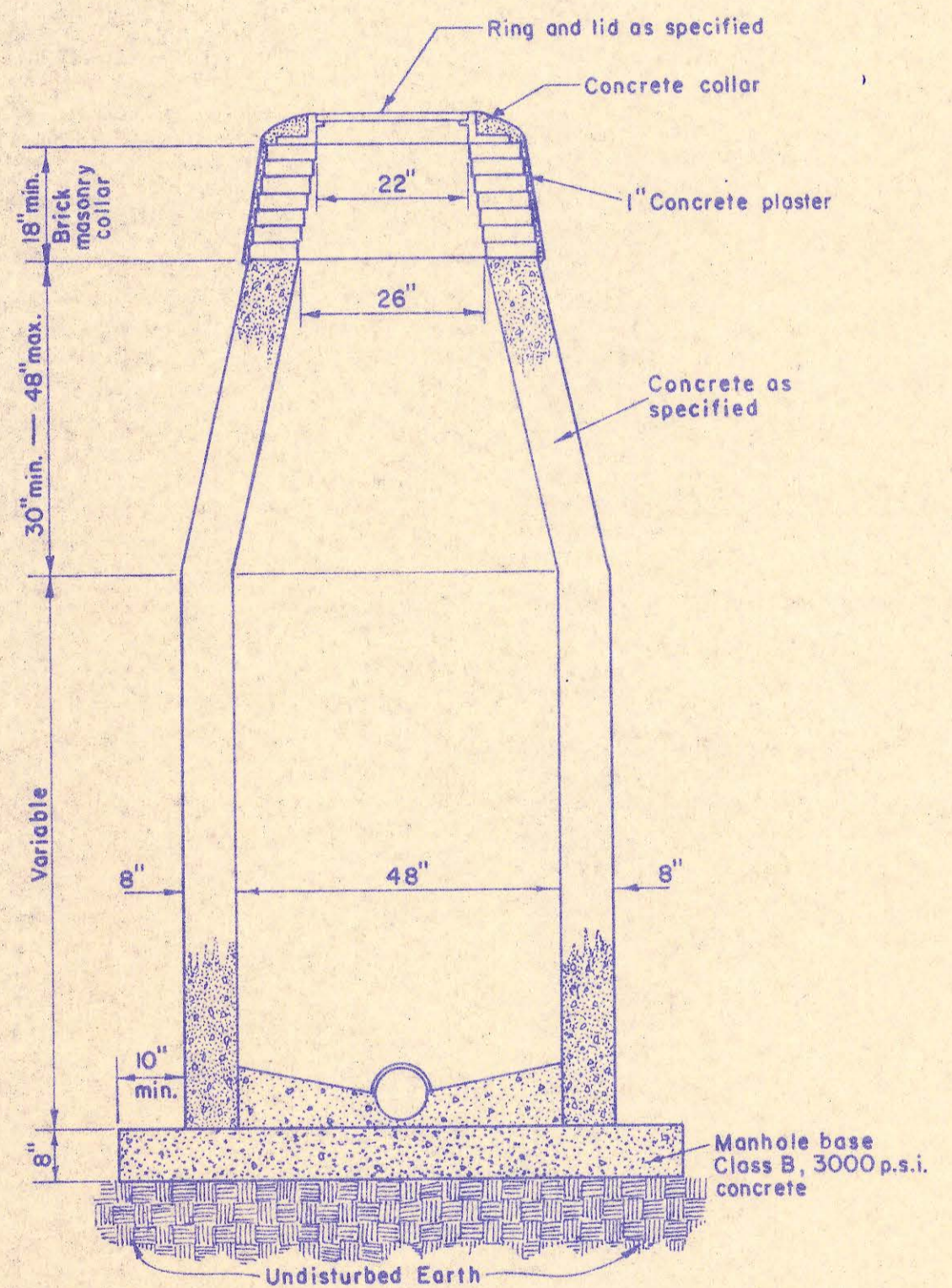


**Plan**

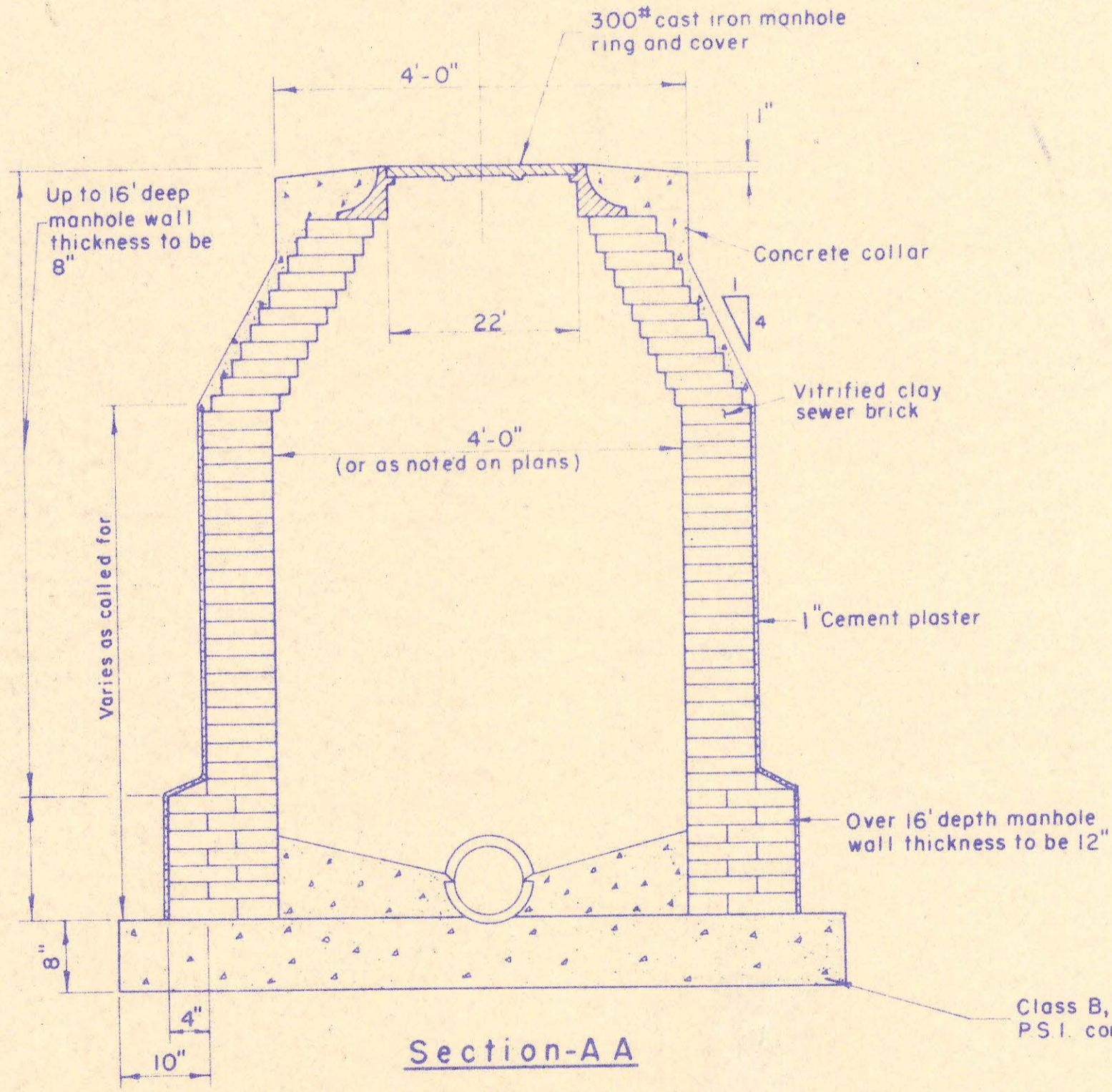
Note: Drop manholes of the form and dimensions shown on the drawings shall be built where a line enters a manhole at a greater height than two (2) feet above the invert of the manholes or where directed by the Engineer.



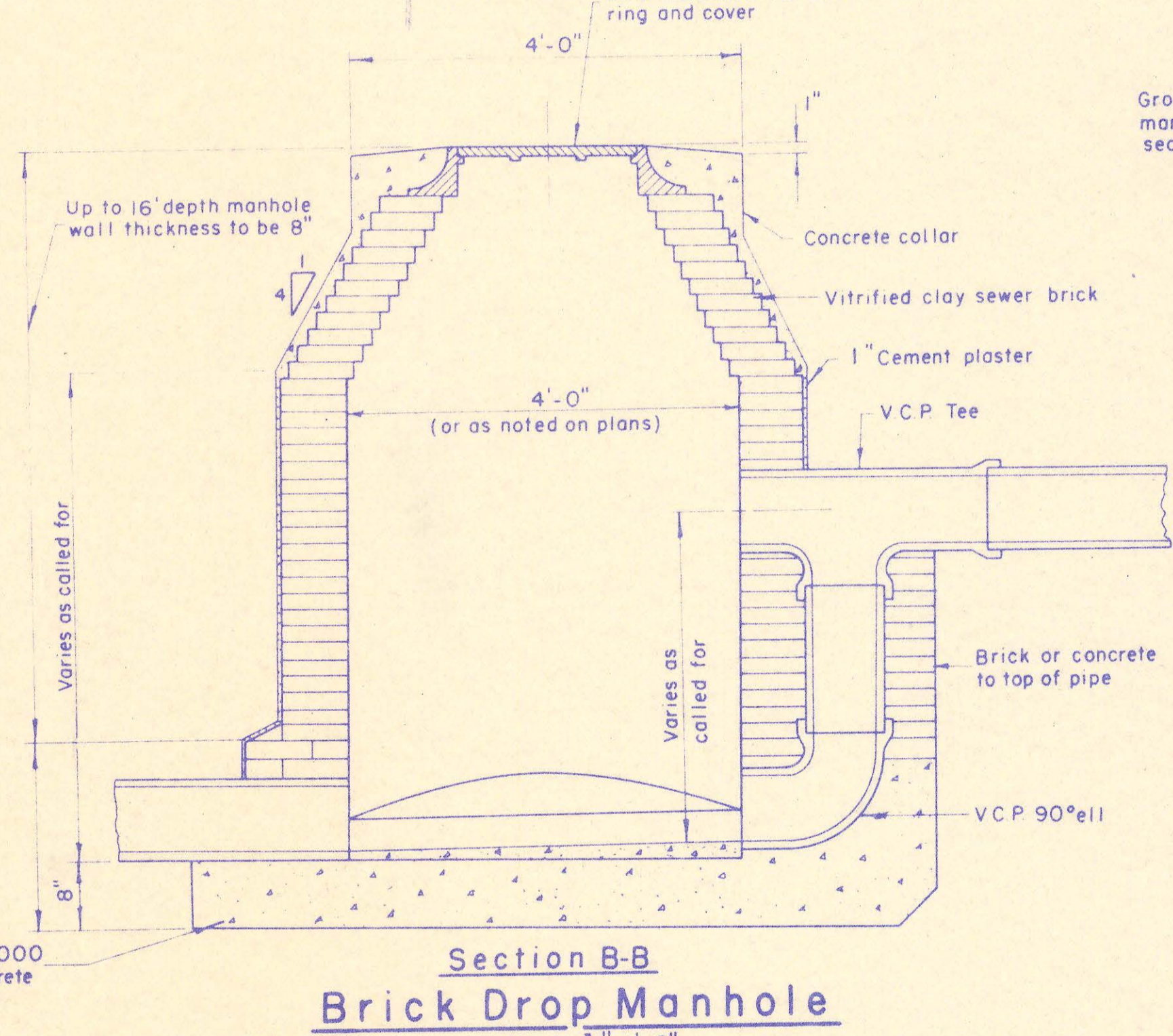
**Plan**



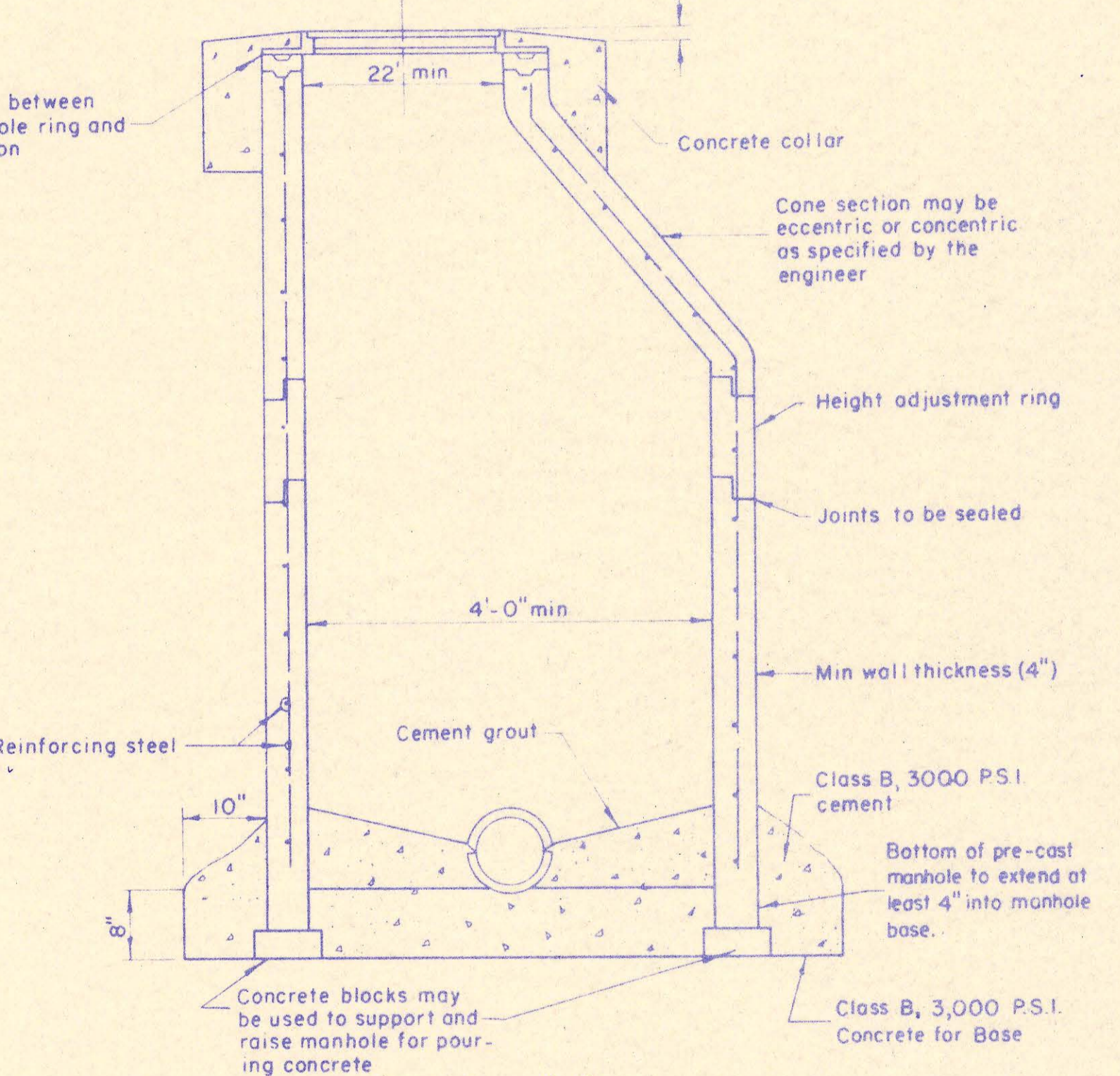
**Poured in Place Standard Manhole**  
No Scale



**Section-A-A  
Brick Manhole**  
Scale: 3/4" = 1'-0"



**Section-B-B  
Brick Drop Manhole**  
Scale: 3/4" = 1'-0"

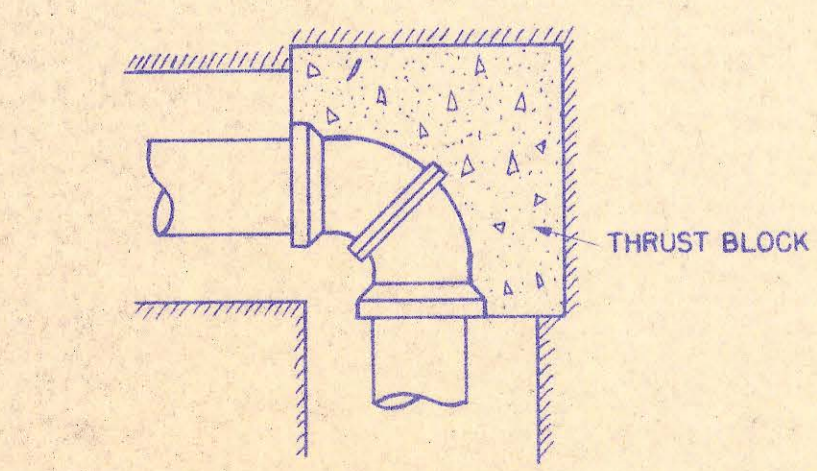


**Section-C-C  
Precast Reinforced  
Concrete Manhole**  
Scale: 3/4" = 1'-0"

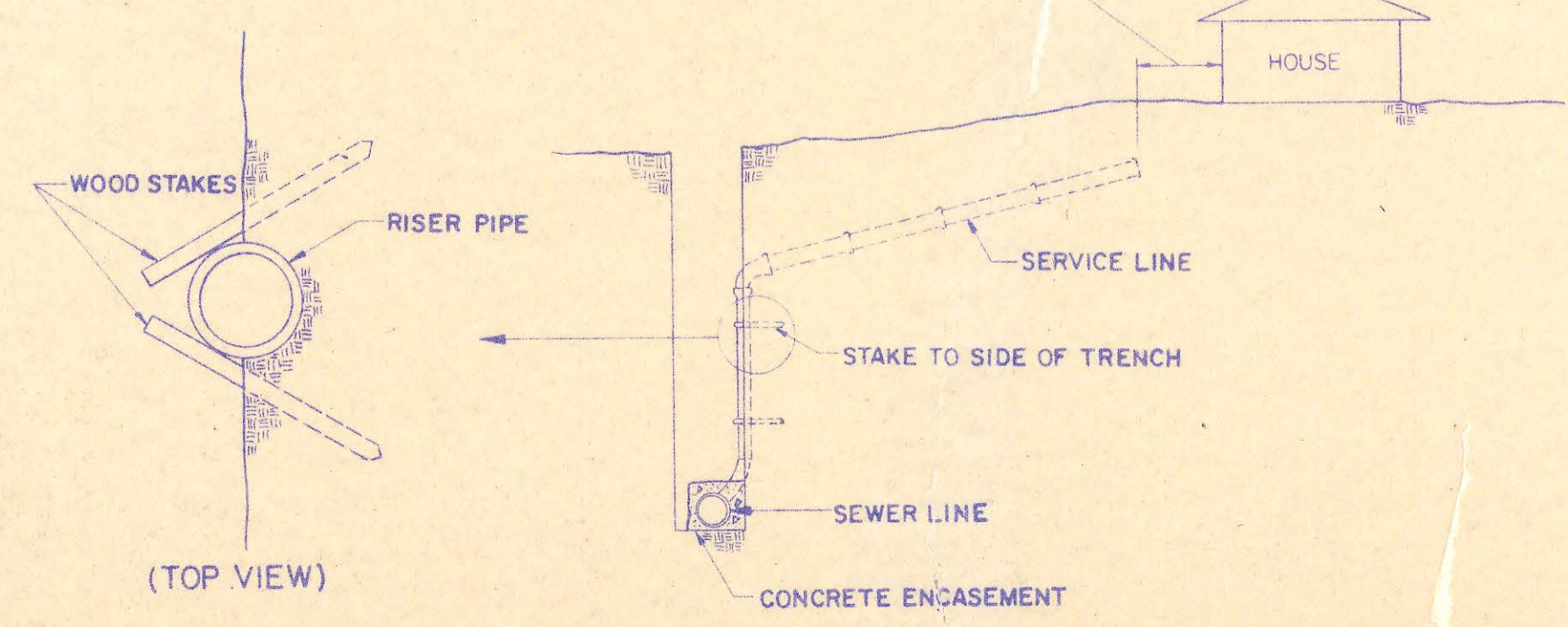
Note: Precast manholes shall have plastic liners. The liners may be Amer-Plate T-Lock Liner Plate, B.F. Goodrich Lok-Rib Koroseal, or approved equal. The plastic liner manufacturer's recommendations for installing, sealing joints, testing and inspecting of the liner shall be considered as incorporated in and forming a part of these specifications. The manhole supplier shall furnish to the engineer three (3) copies of the plastic liner manufacturer's recommendations prior to the fabrication of any manholes.

Note: This standard sheet shows the types of construction for the items shown which will normally be encountered on a sewerage project. Special conditions or type of construction are shown on other drawings and specifications.

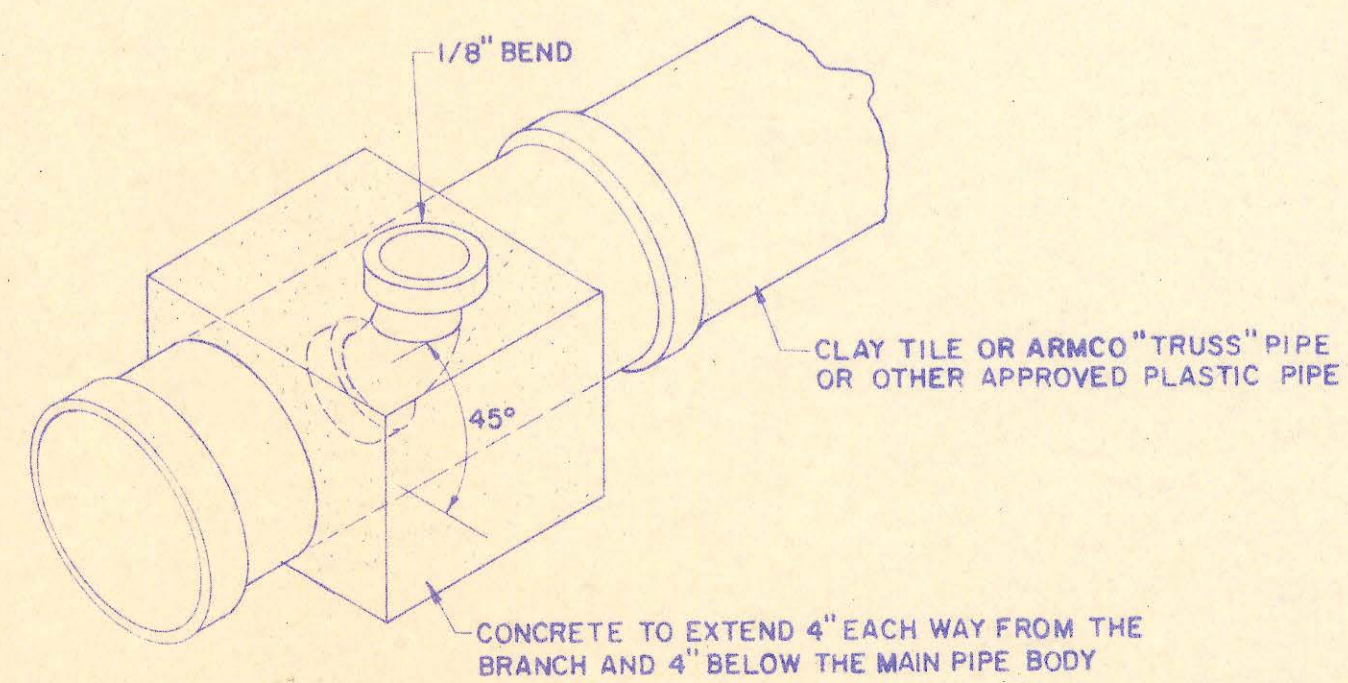
Note: All concrete shall be class "B", 3000 PSI unless otherwise shown.



**Typ. Thrust Block Detail**  
NO SCALE



**Service Connection Details**  
NO SCALE



REISS & GOODNESS ENGINEERS  
2160 WEST 21<sup>ST</sup> STREET  
WICHITA, KANSAS 67204  
(316) 832-0283

SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS  
STANDARD MANHOLE DETAILS  
BRIDGEWOOD ADDITION

1	1-22-81	D.J.
No.	Revision	By
DATE		NO. 14 of 14

CONSTRUCTION PLANS FOR  
**SANITARY SEWER EXTENSIONS**  
**COBBLESTONE**

AN ADDITION TO SEDGWICK COUNTY, KANSAS

CLAUDE S. SHELOR, COUNTY ENGINEER

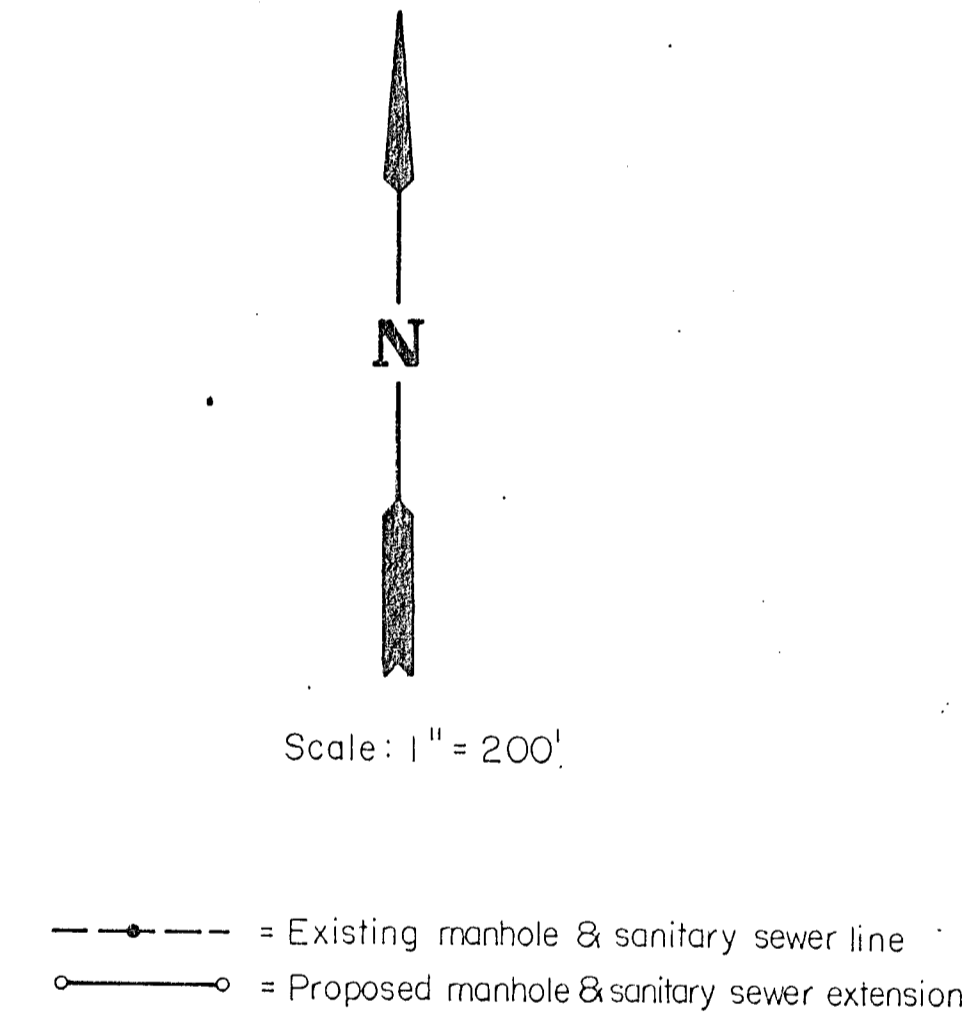
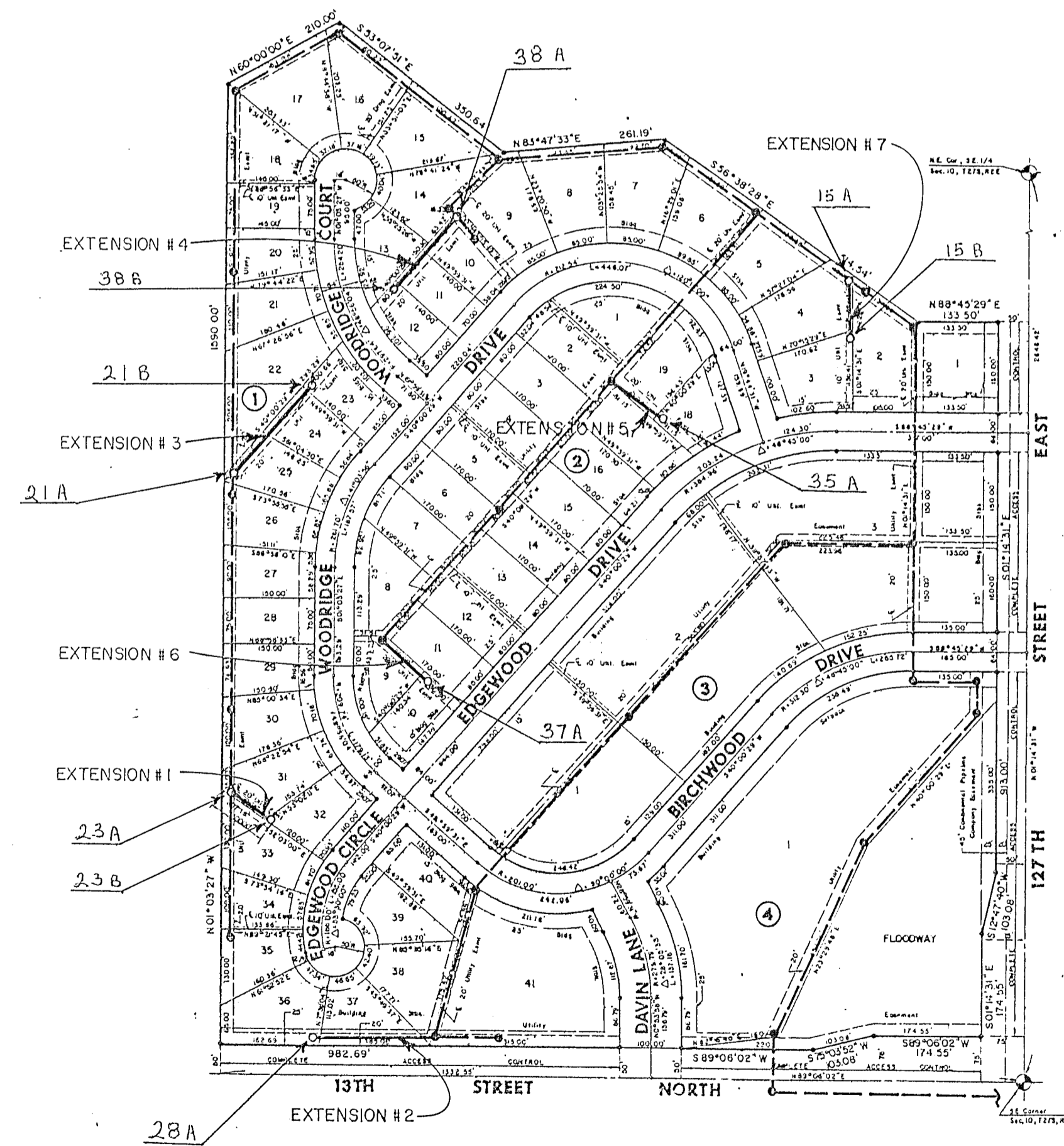
SEPTEMBER, 1984

**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 CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
3. 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) FEET 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.
4. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING AND LOCATION OF ANY UNDERGROUND LINES.
5. 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 IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
6. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RISERS.
7. COST OF EXCAVATION, HAULING AND DUMPING EXCESS EXCAVATION TO BE SUBSIDIARY TO PROJECT.
8. CONSTRUCTION AND MATERIALS WILL BE TO SPECIFICATIONS USED BY THE CITY OF WICHITA.

**BENCH MARKS**

- BM#1 RR. SPK. IN PP NW CORNER  
 13TH & 127TH = 1352.59  
 BM#2 " " EAST END SOUTH HUB GUARD  
 AT BRIDGE 100' WEST OF LIFT  
 STATION = 1338.43  
 BM#3 STEPPED SPK. IN PP SW CORNER  
 143RD E. & 13TH = 1349.90



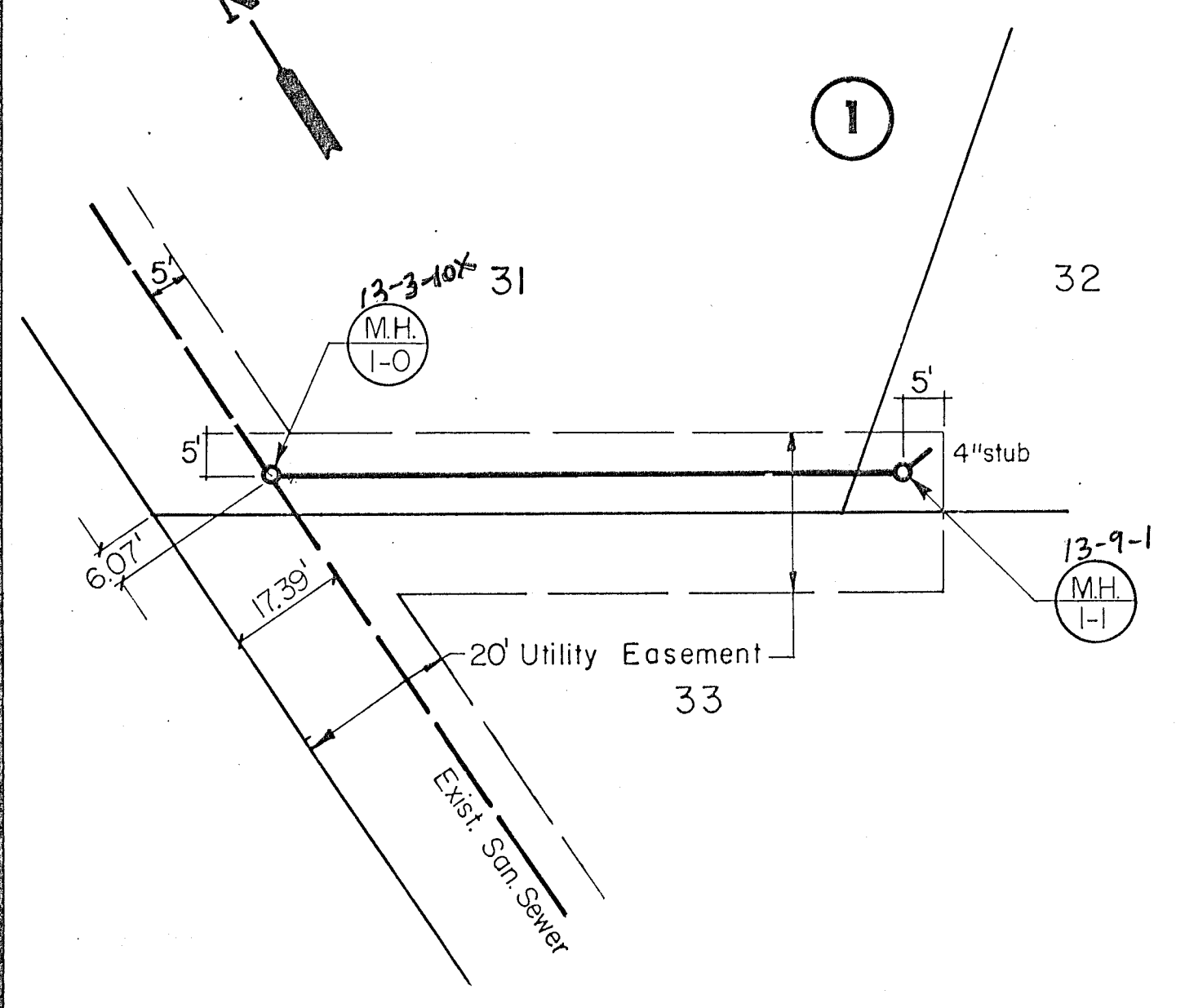
**INDEX TO DRAWINGS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXTENSION 1 & 2 - Plan and Profile
3	EXTENSION 3 & 4 - Plan and Profile
4	EXTENSION 5, 6 & 7 - Plan and Profile
5	TYPE "A" MANHOLE DETAIL
6	TYPE "C" MANHOLE DETAIL
7	VERTICAL RISER DETAIL
8	COBBLESTONE FINAL PLAT

*Michael D. Shelor*

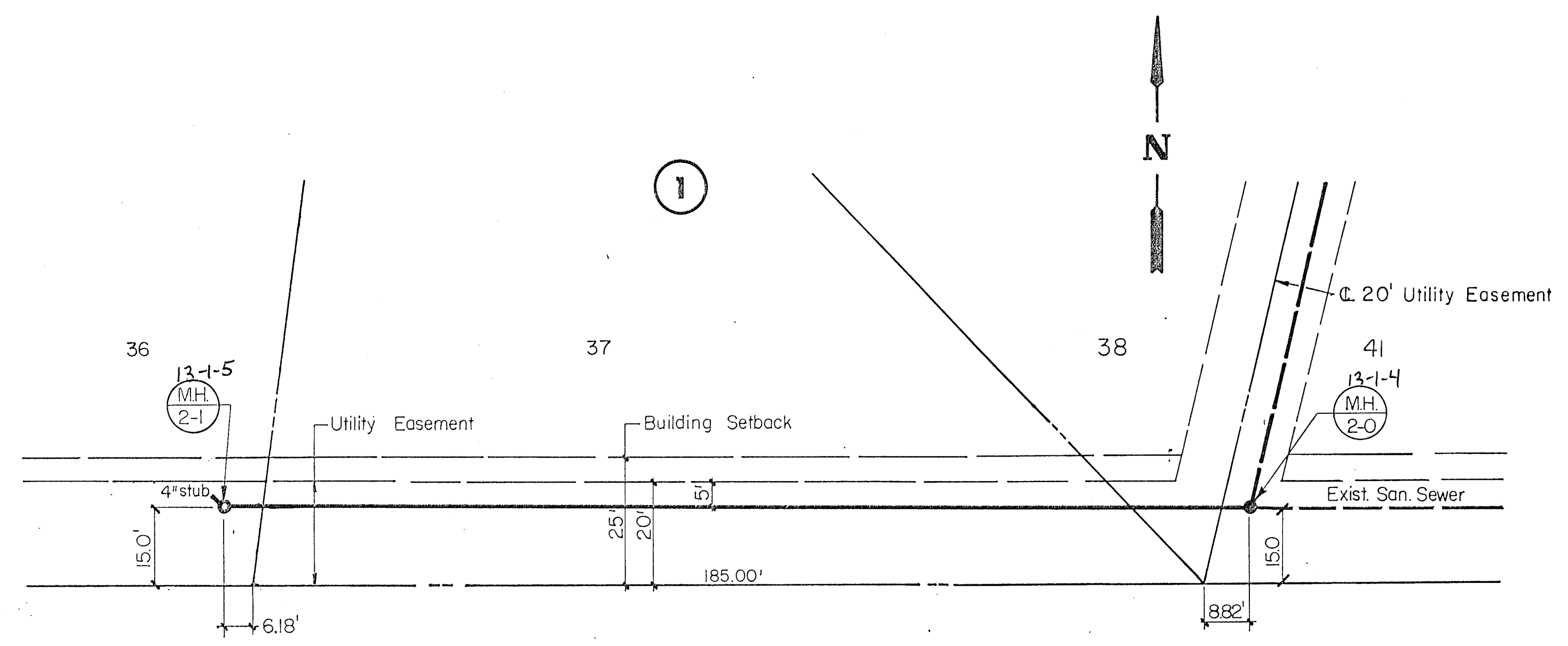
	<b>COBBLESTONE                  SANITARY SEWER                  EXTENSIONS</b>	Design M.D.H. Drawn by DPR Checked by KHB Date 8-84 Job no.
	MID-KANSAS ENGINEERING CONSULTANTS PA 240 NORTH ROCK ROAD SUITE 100 WICHITA, KANSAS 67206	682-6561

Scale: 1" = 20' Horiz.  
1" = 5' Vert.



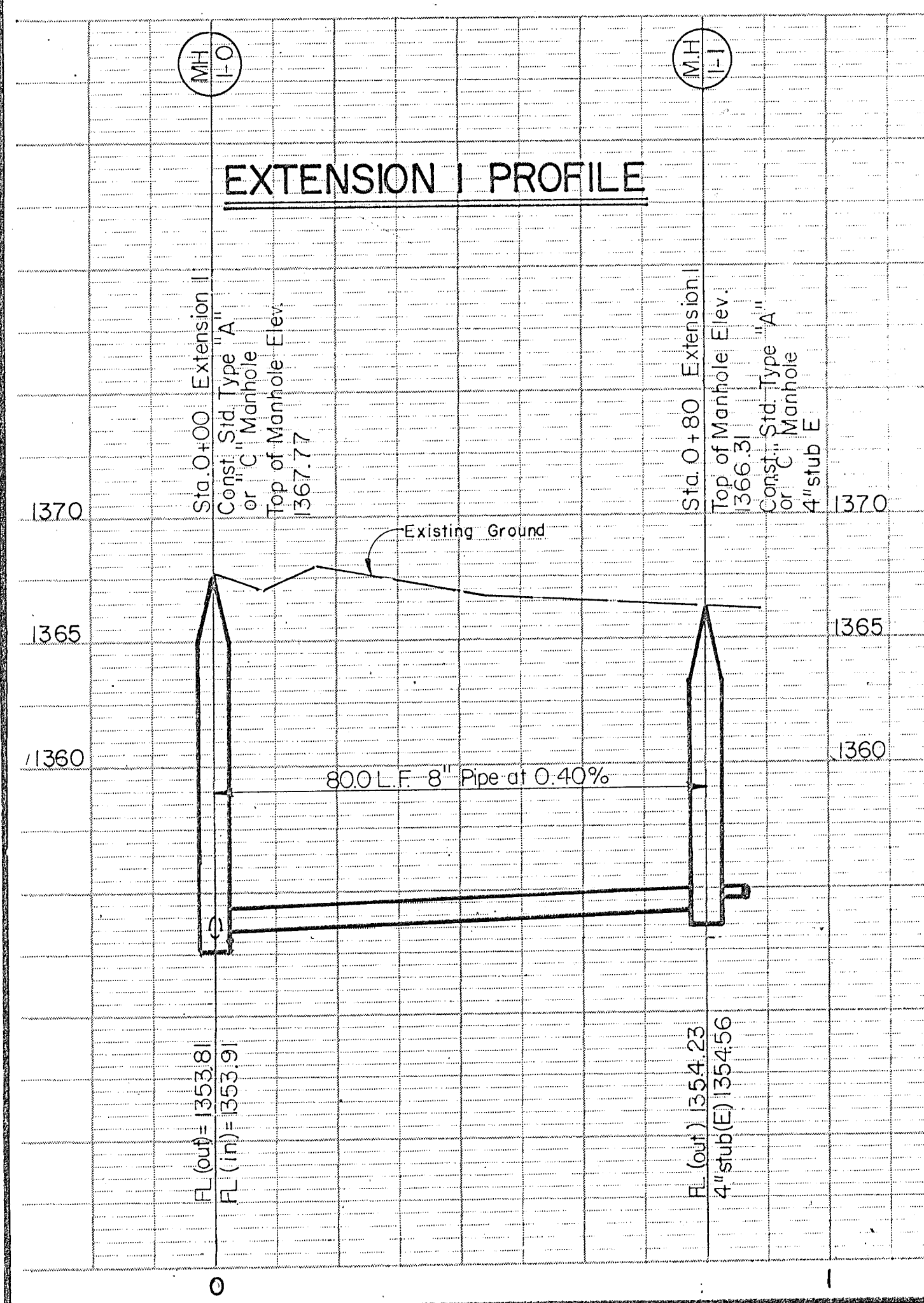
EXTENSION 1 PLAN

SCALE: Horiz. 1" = 20'  
Vert. 1" = 5'

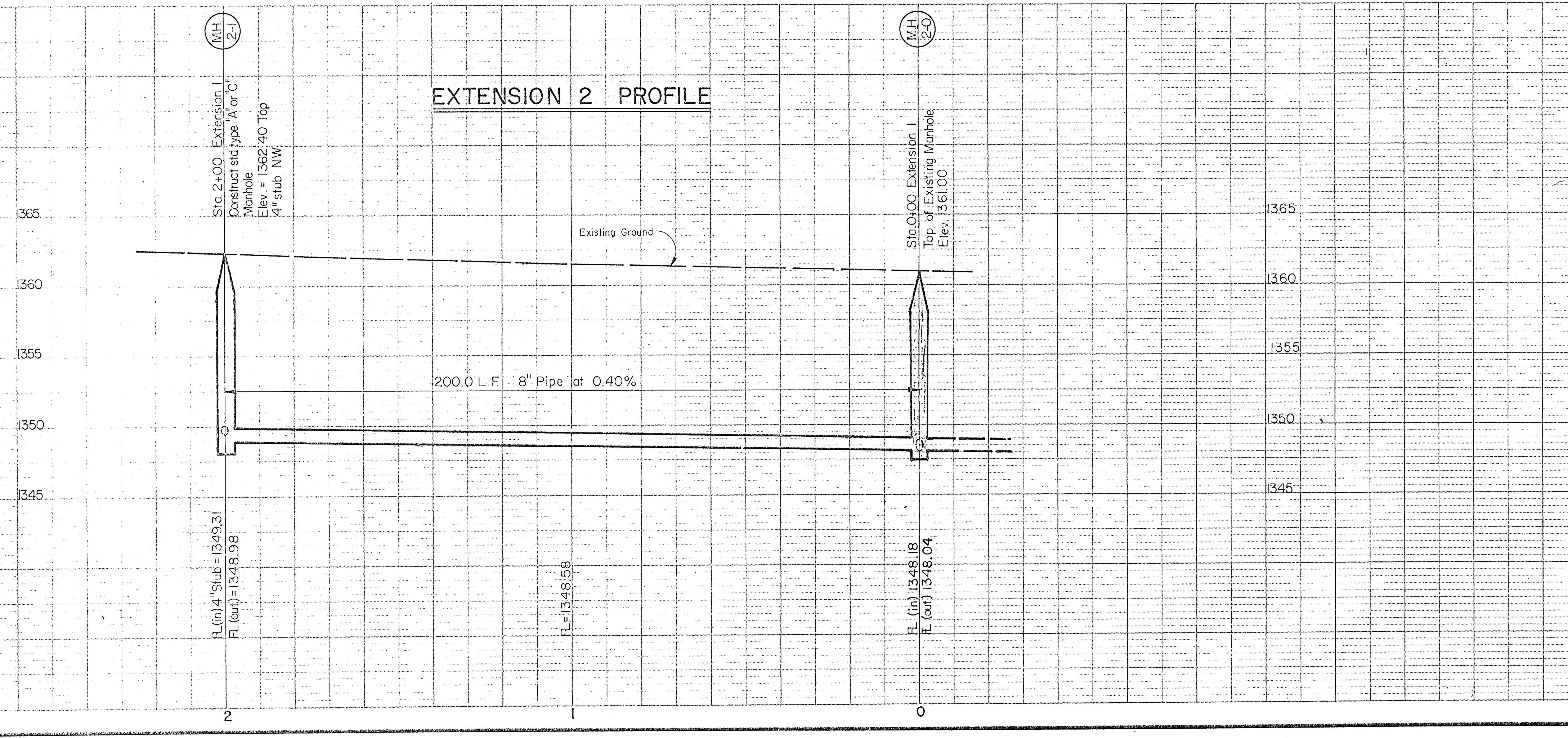


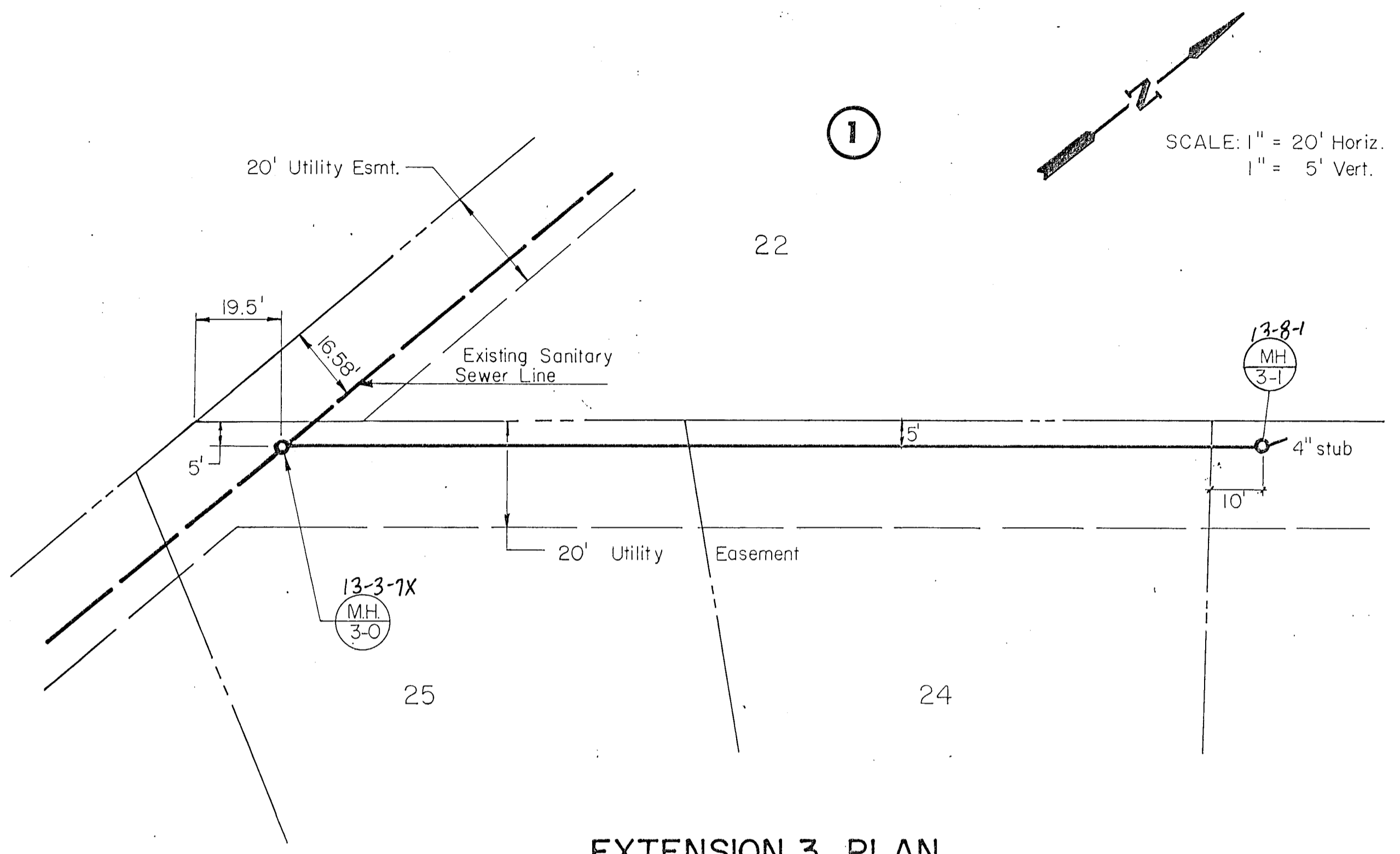
EXTENSION 2 PLAN

EXTENSION 1 PROFILE

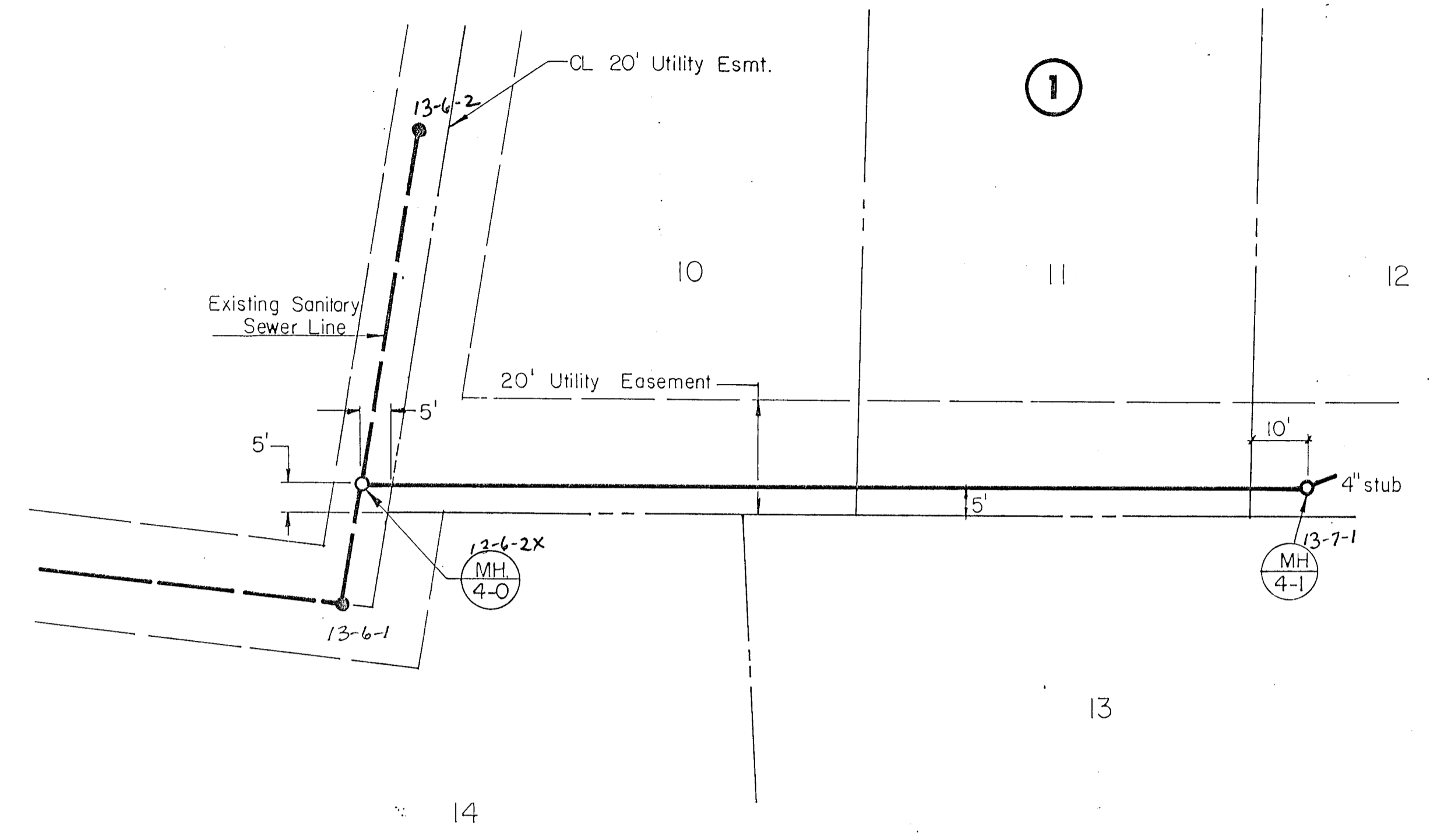


EXTENSION 2 PROFILE

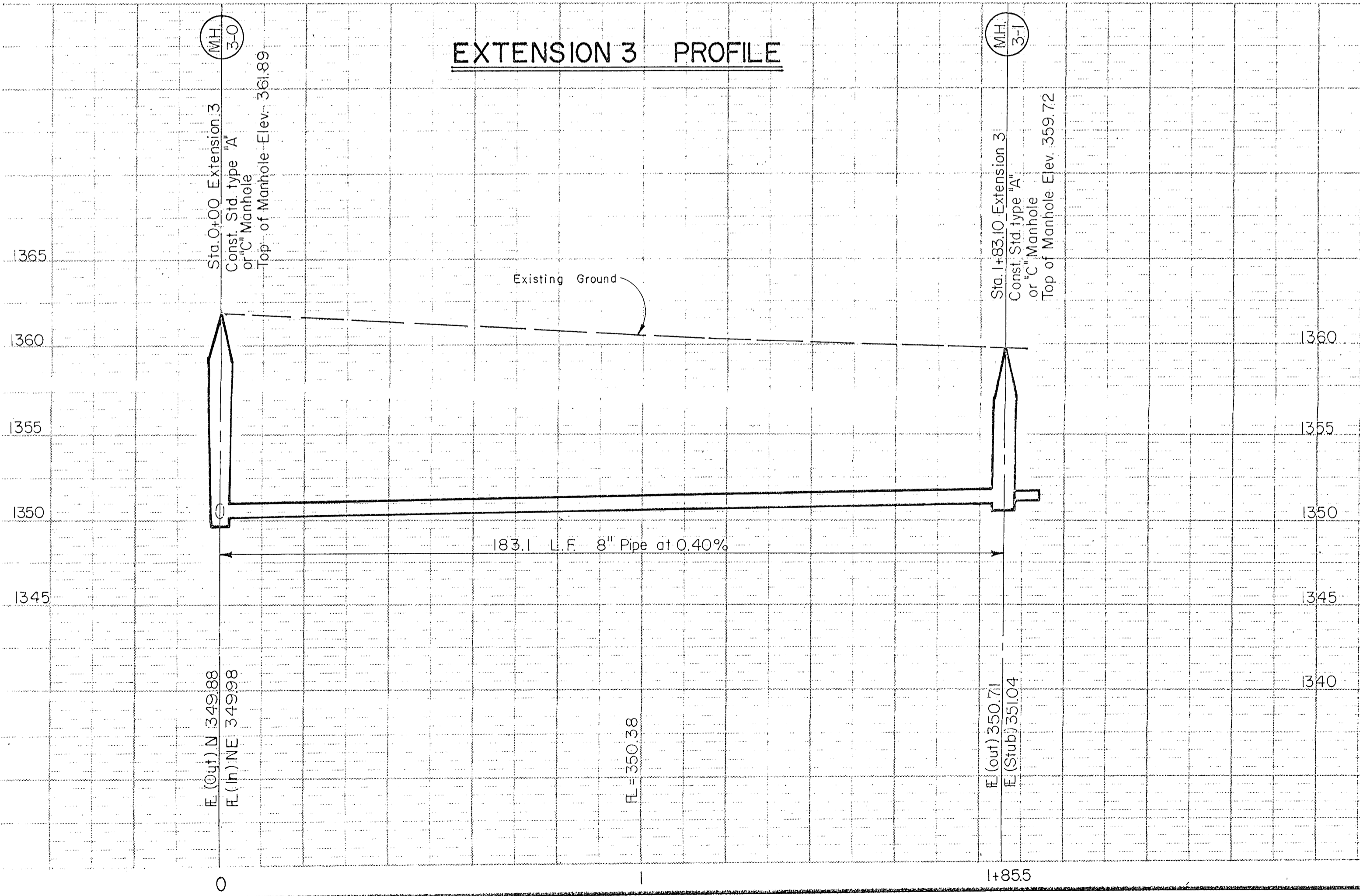




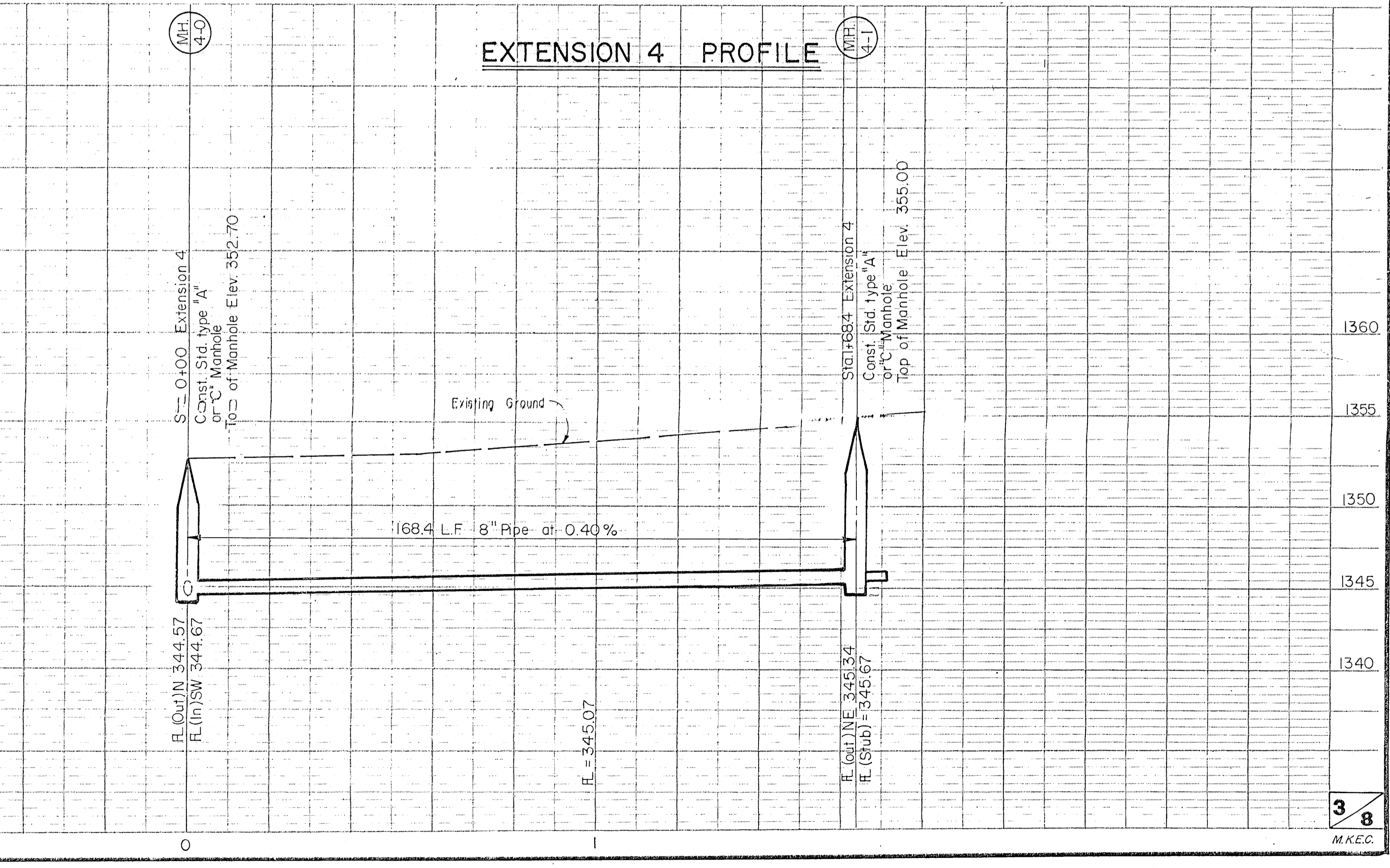
EXTENSION 3 PLAN



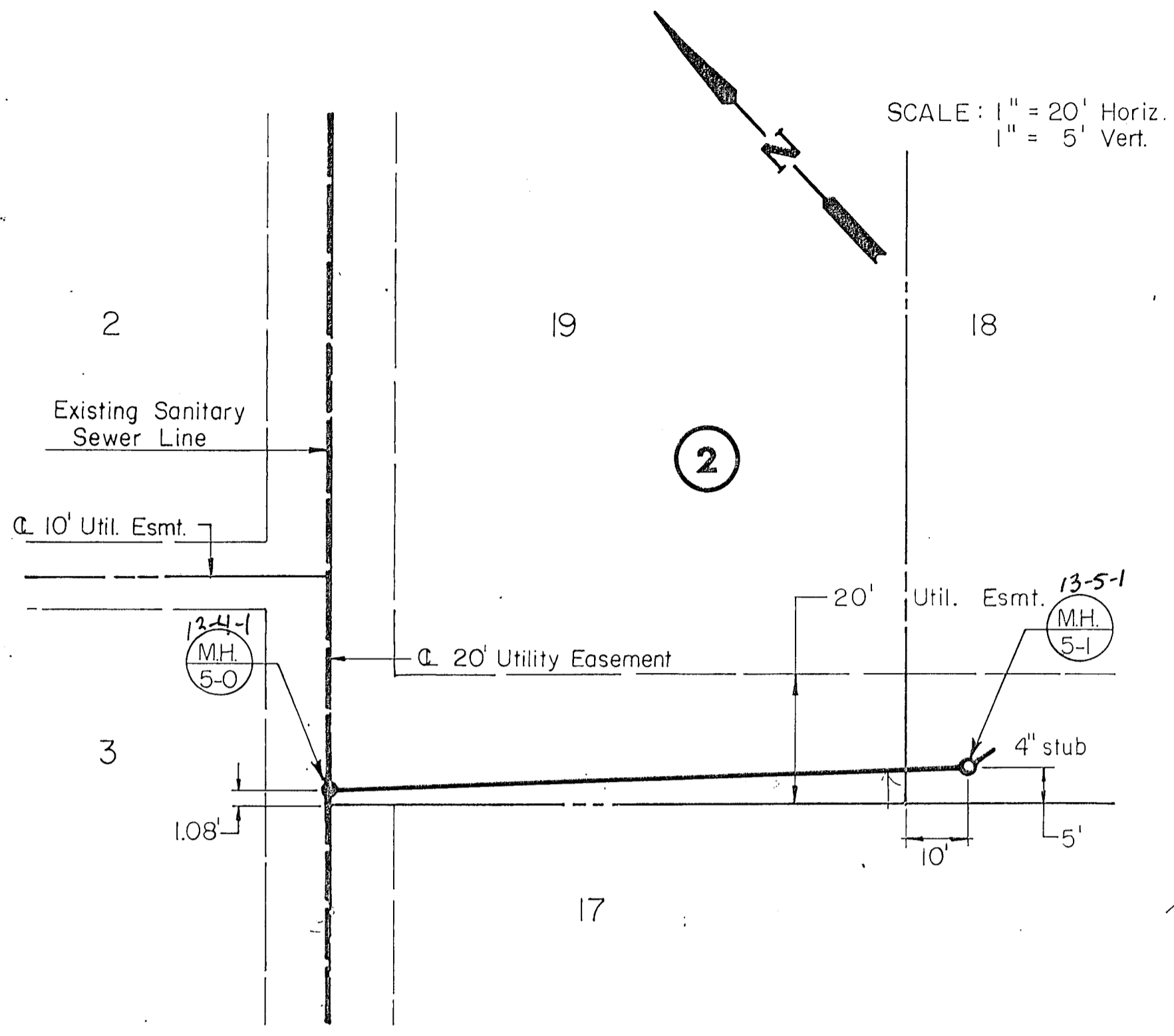
EXTENSION 4 PLAN



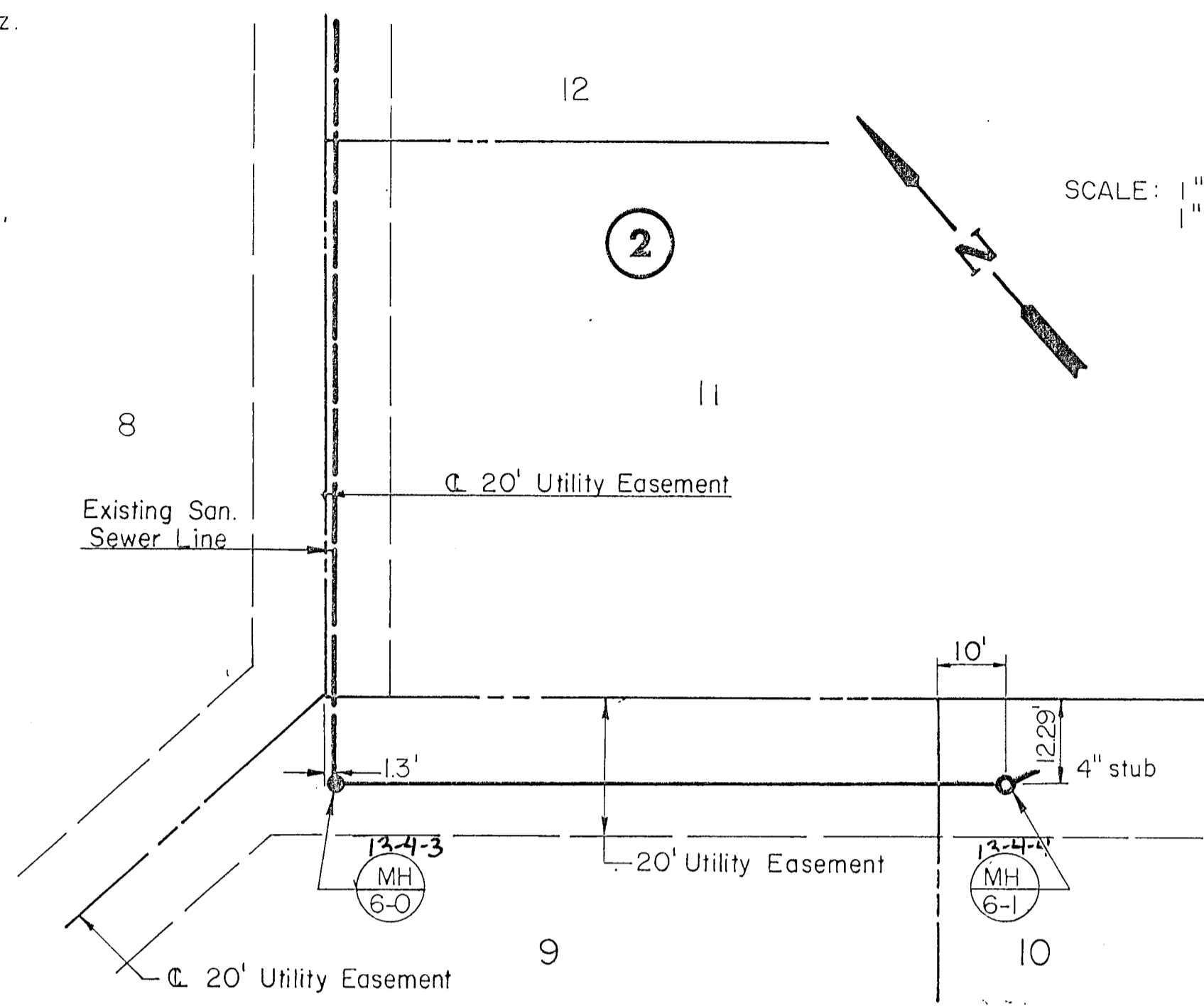
EXTENSION 3 PROFILE



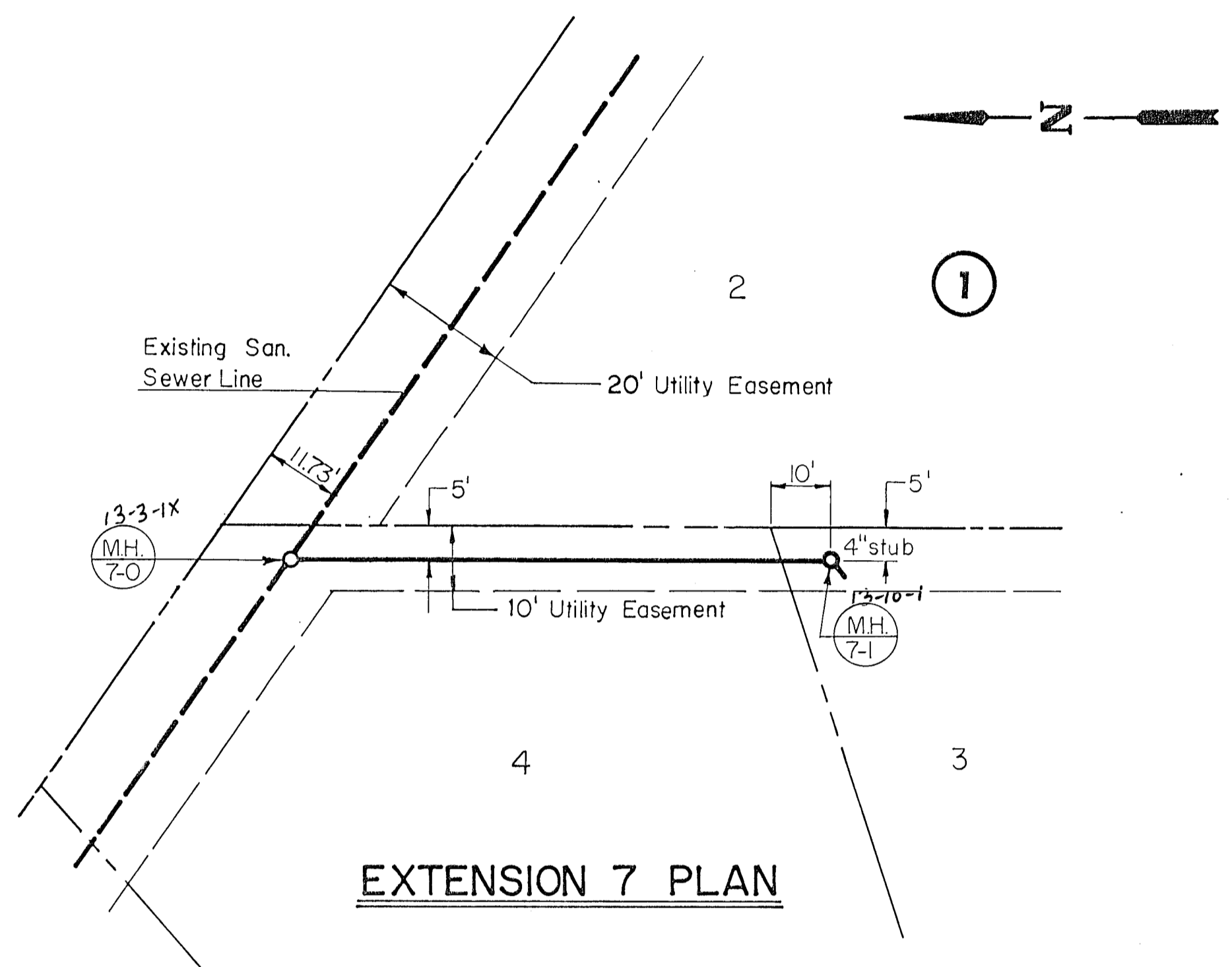
EXTENSION 4 PROFILE



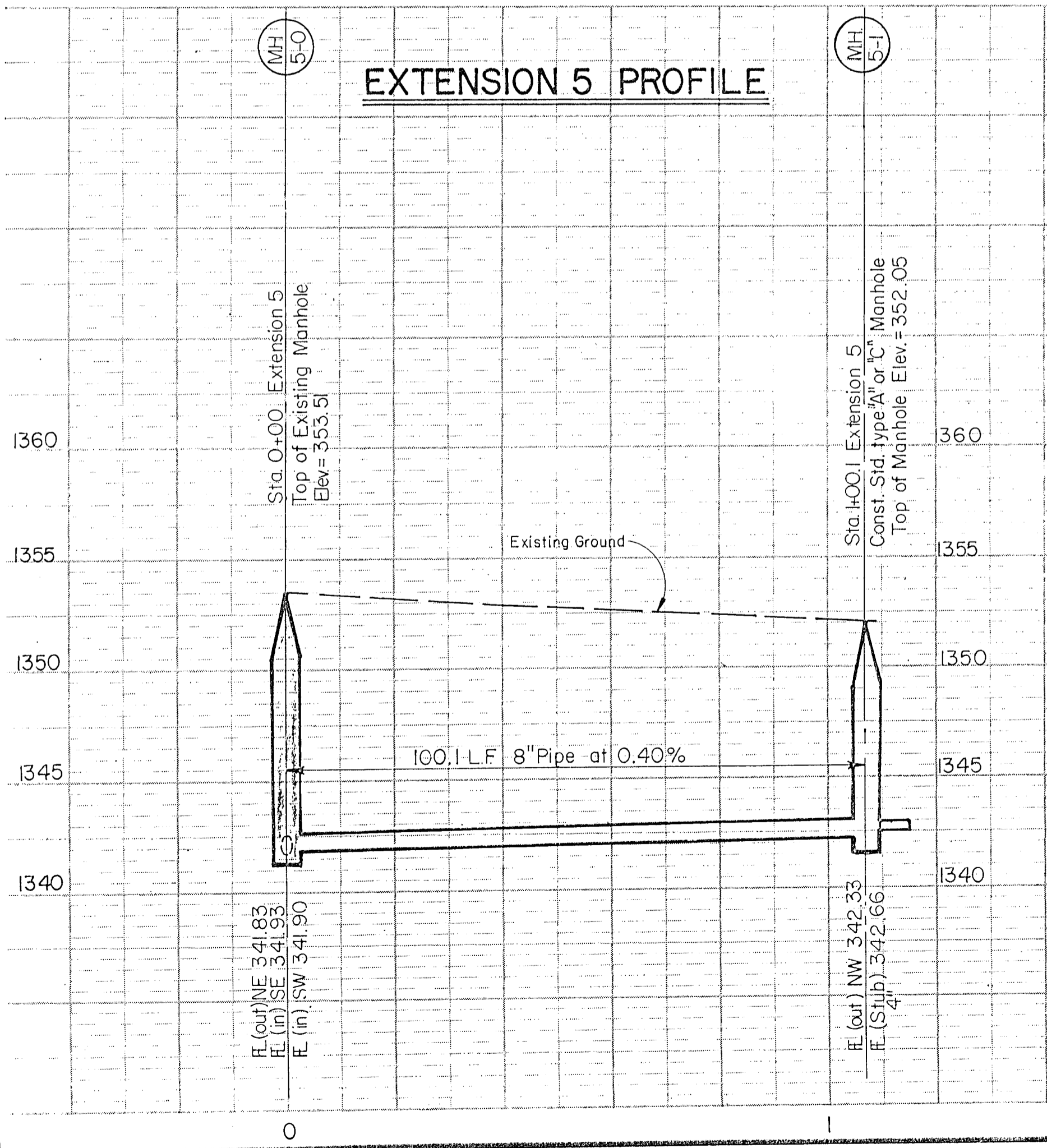
**EXTENSION 5 PLAN**



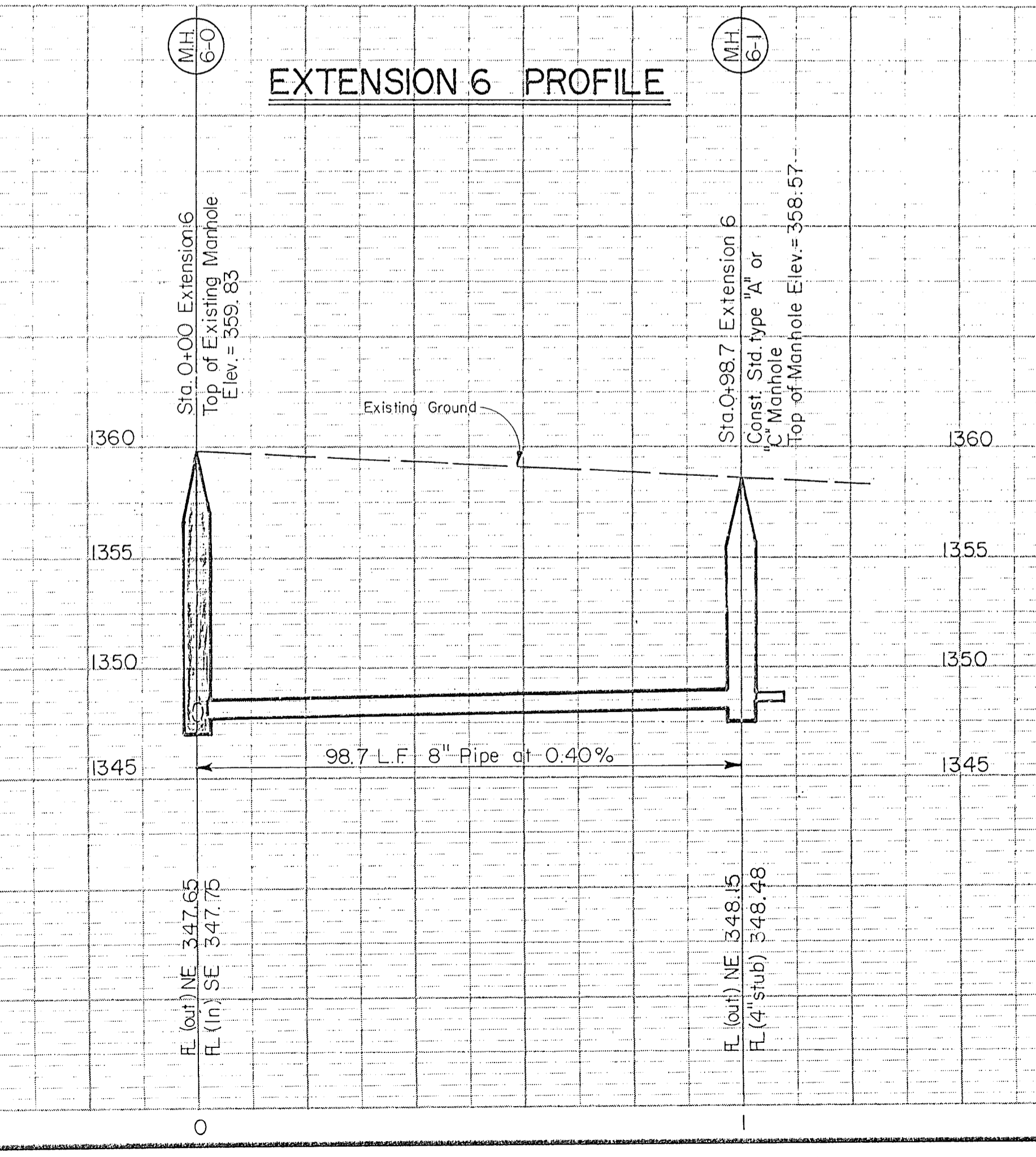
**EXTENSION 6 PLAN**



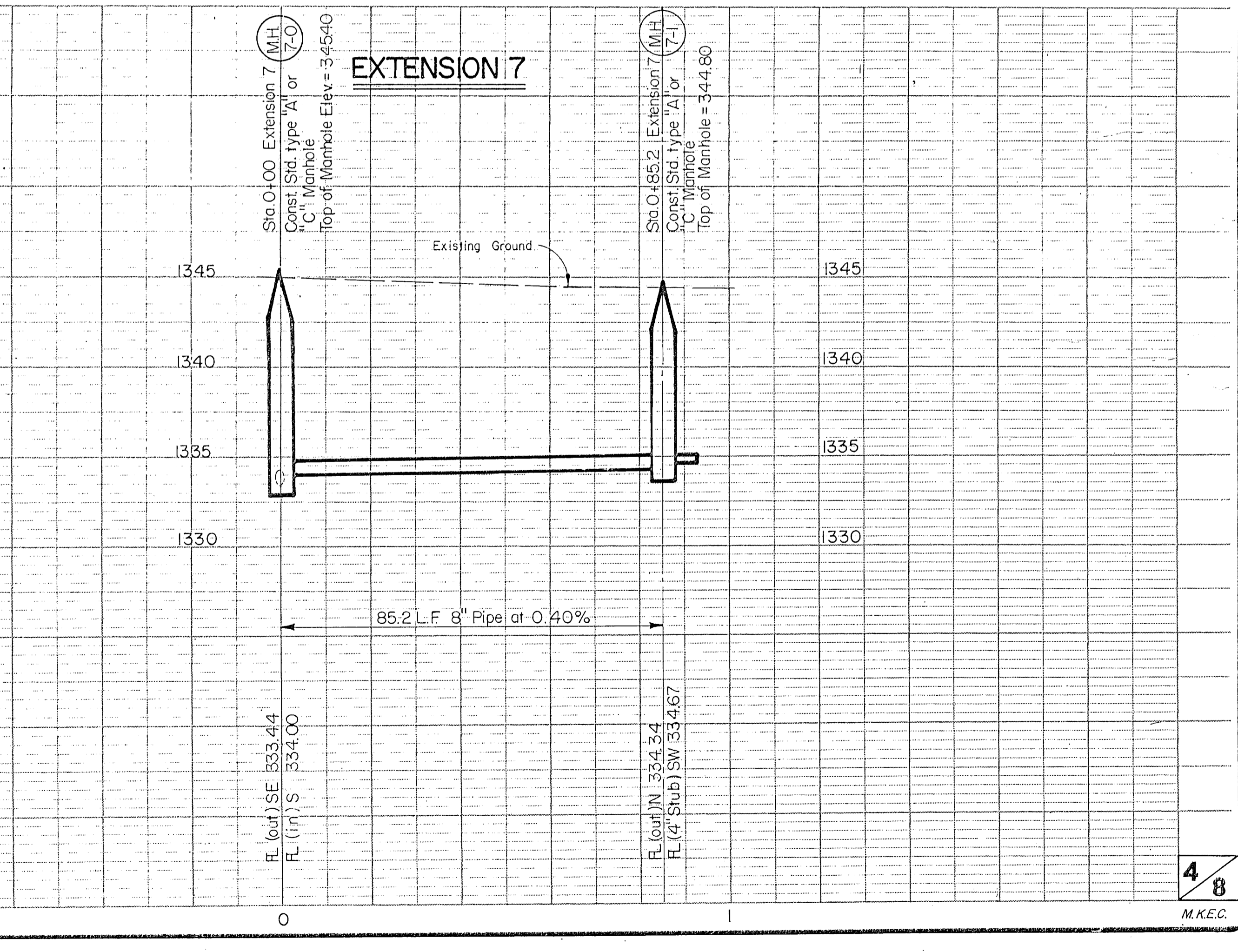
**EXTENSION 7 PLAN**



**EXTENSION 5 PROFILE**



**EXTENSION 6 PROFILE**



**EXTENSION 7 PROFILE**

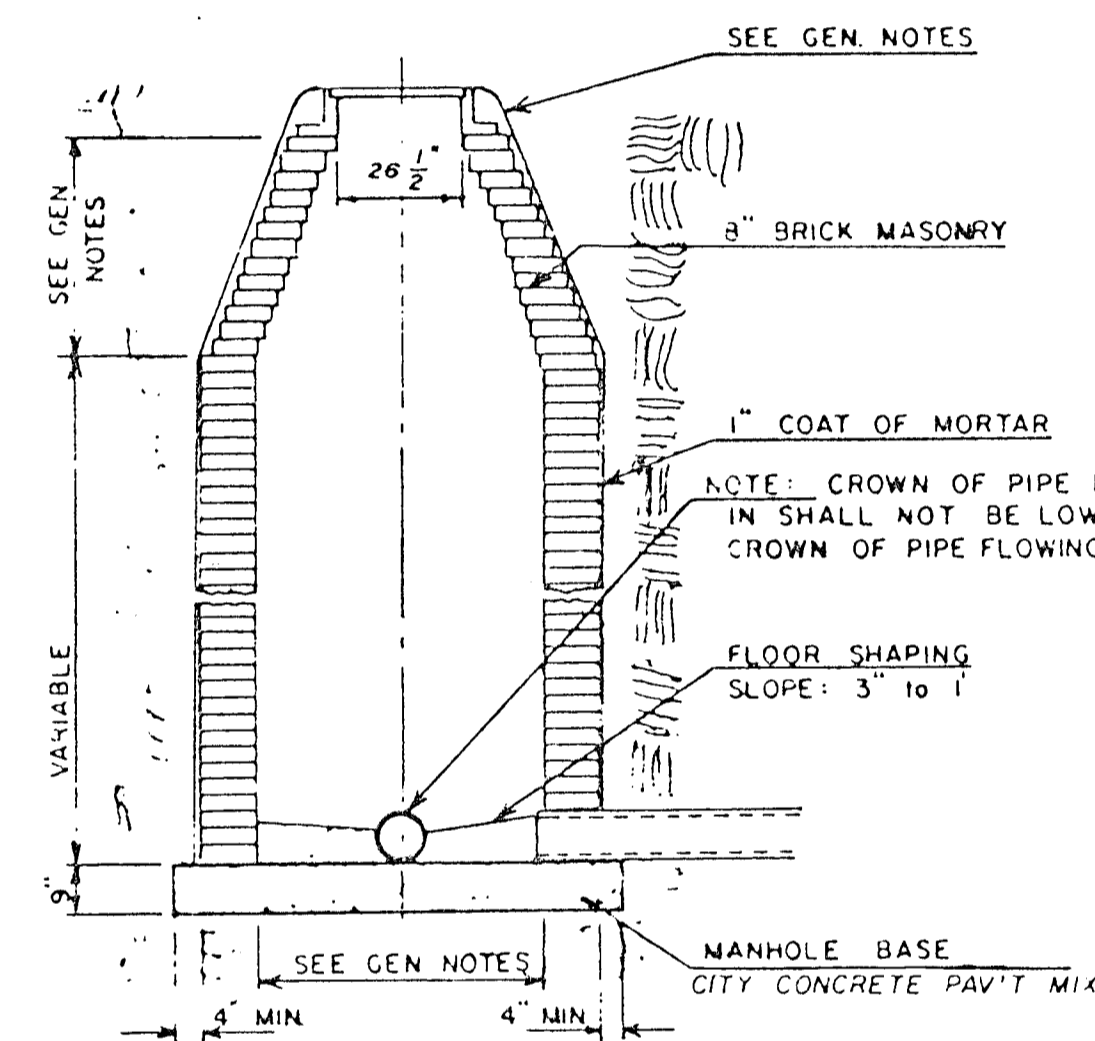
# SEWER APPURTENANCES DETAILS

REVISED SEPTEMBER 1980  
REVISED DECEMBER 1981

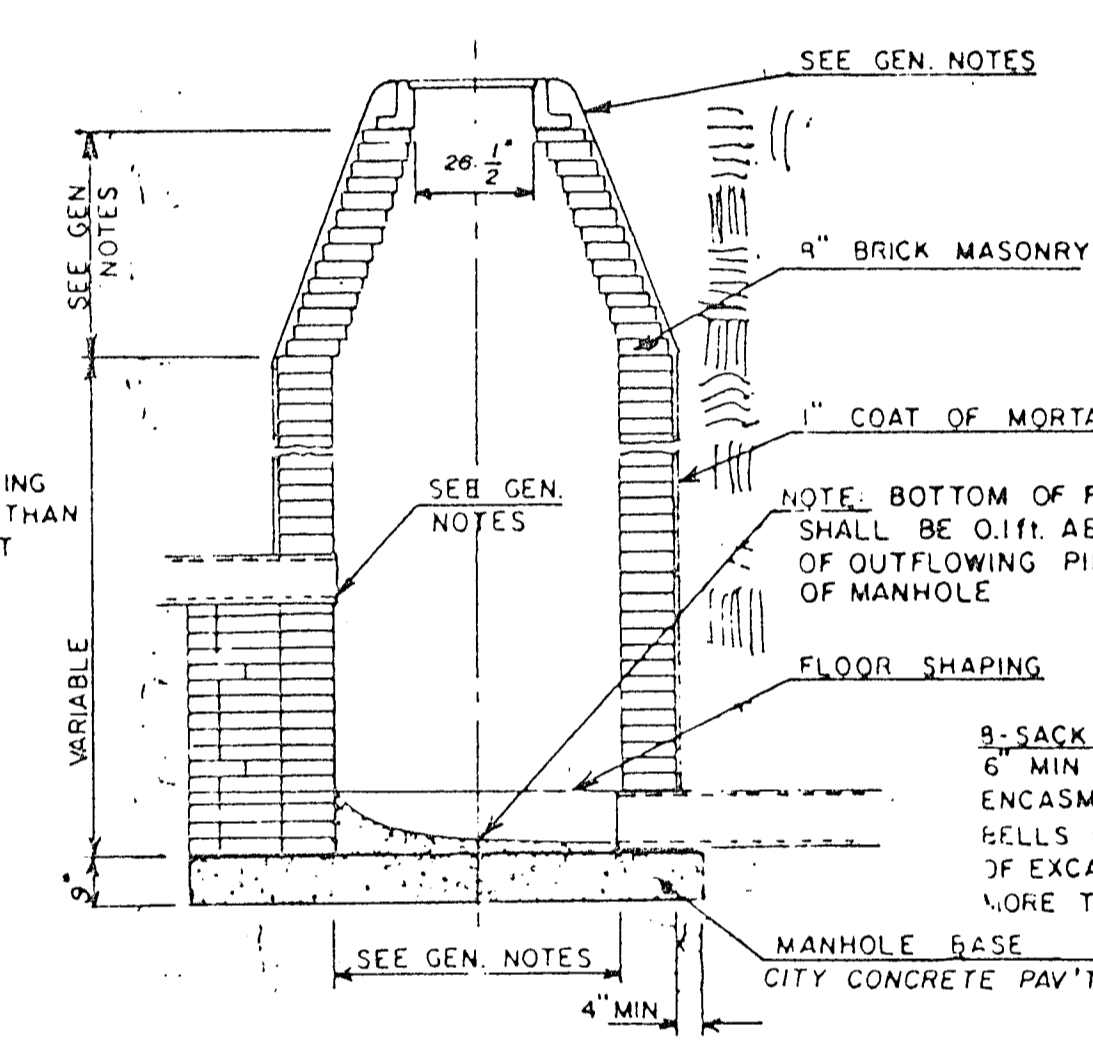
ADOPTED AS STANDARD DESIGN  
BY

CITY of WICHITA, KANSAS

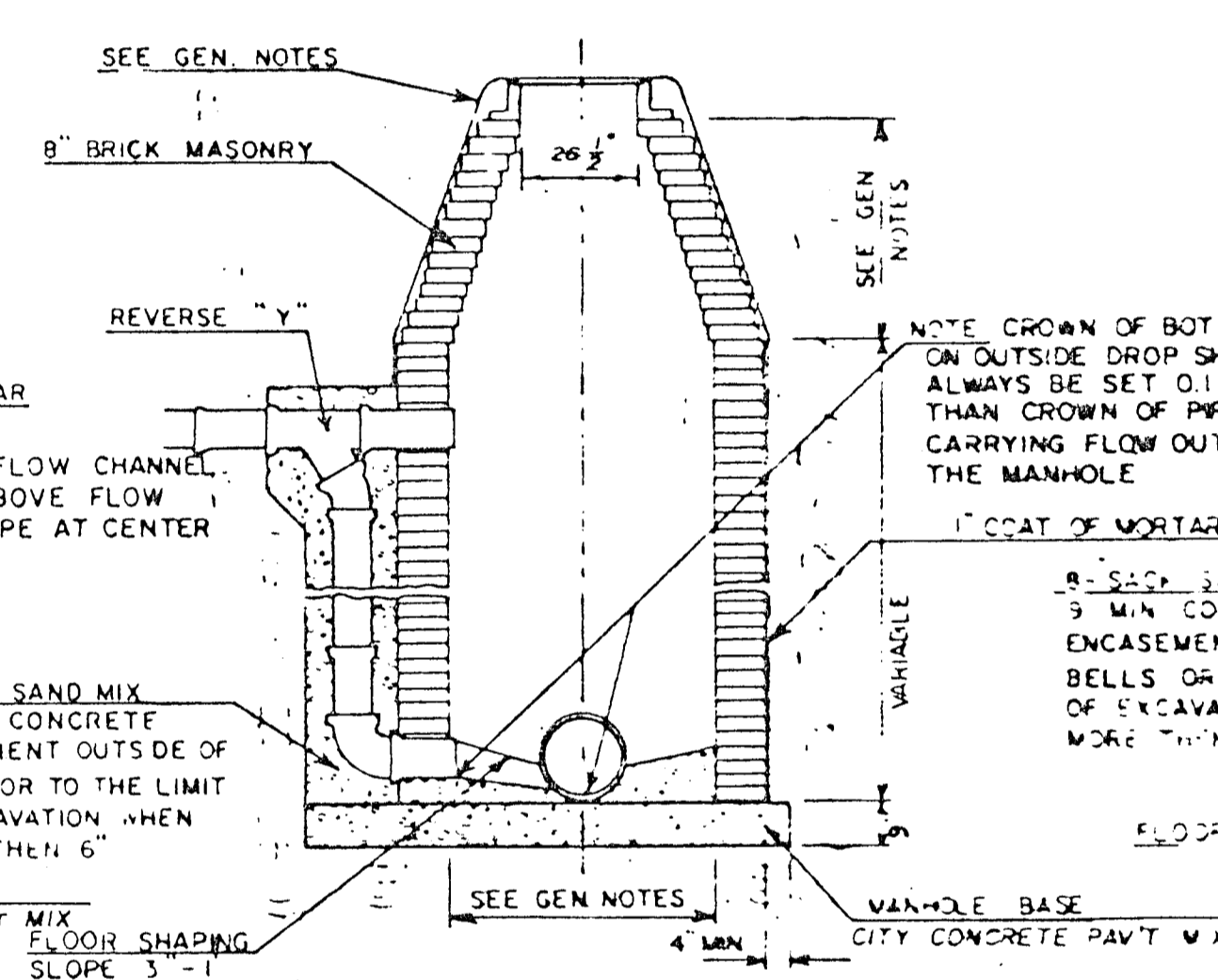
TYPE "A" MANHOLE



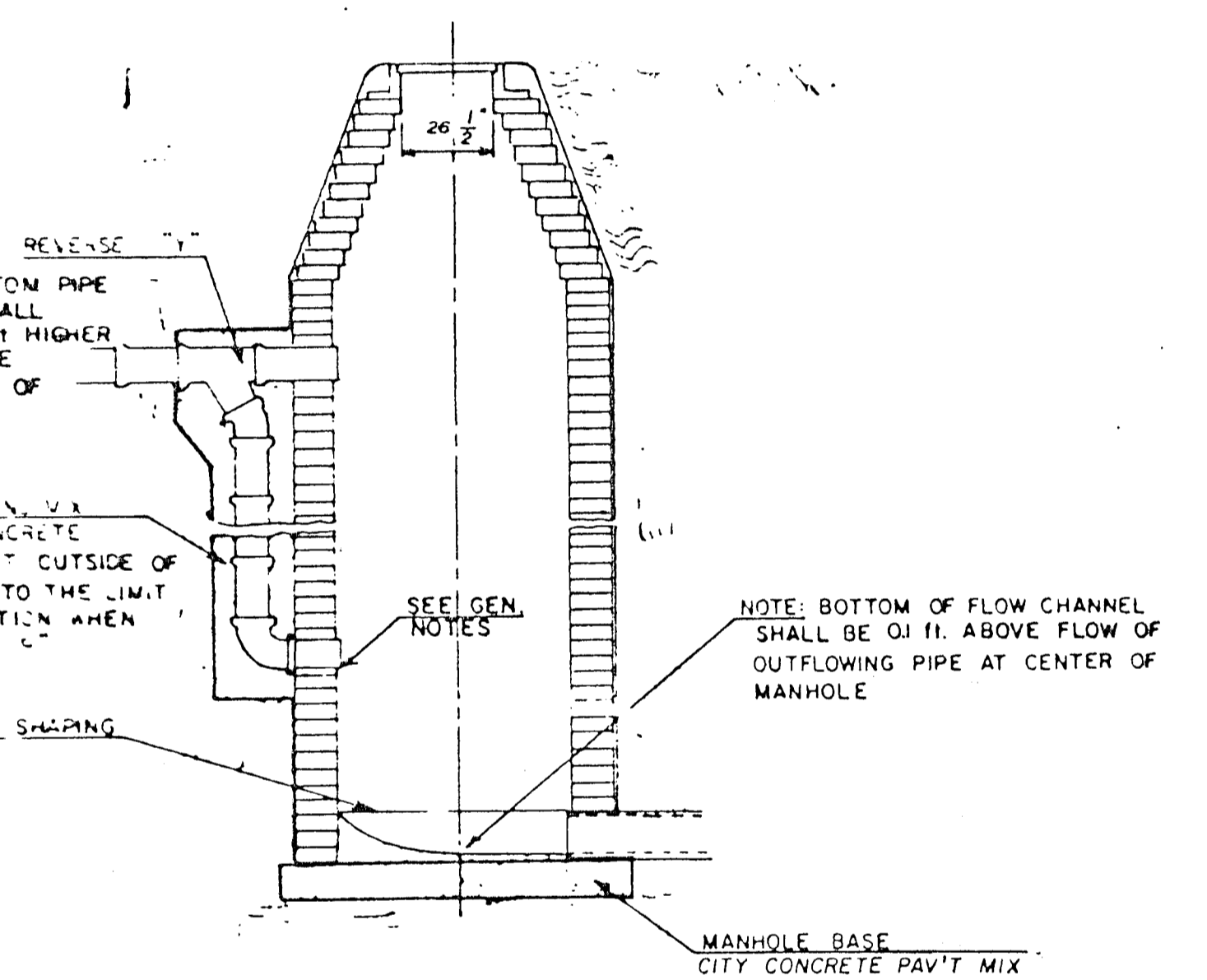
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP  
CONSTRUCTED ON EXISTING 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 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 16' 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.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED 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.
- 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 F.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.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLUTION 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 MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF THE 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 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.
- 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.

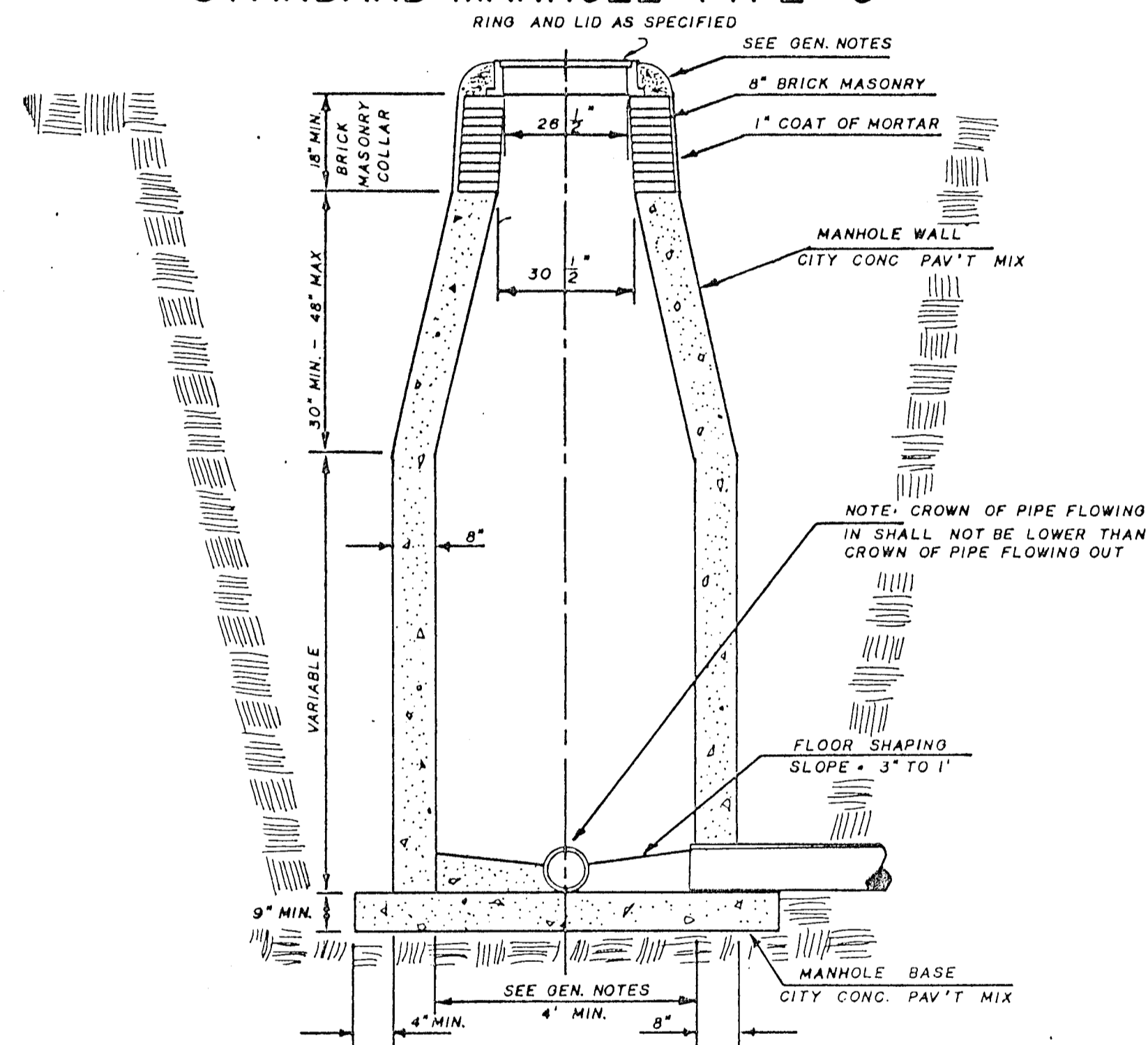
# SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN

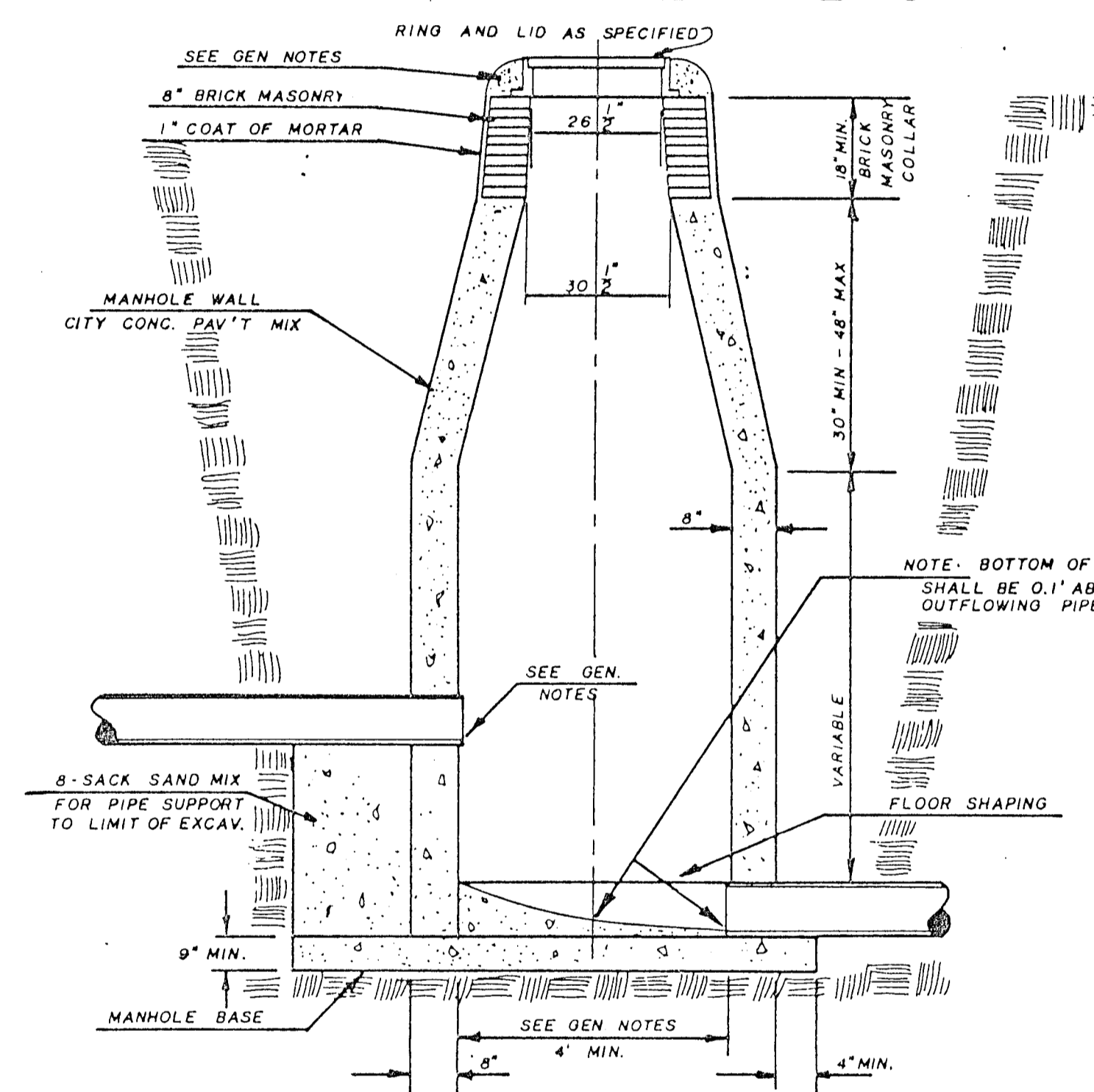
BY

City of Wichita, Kansas

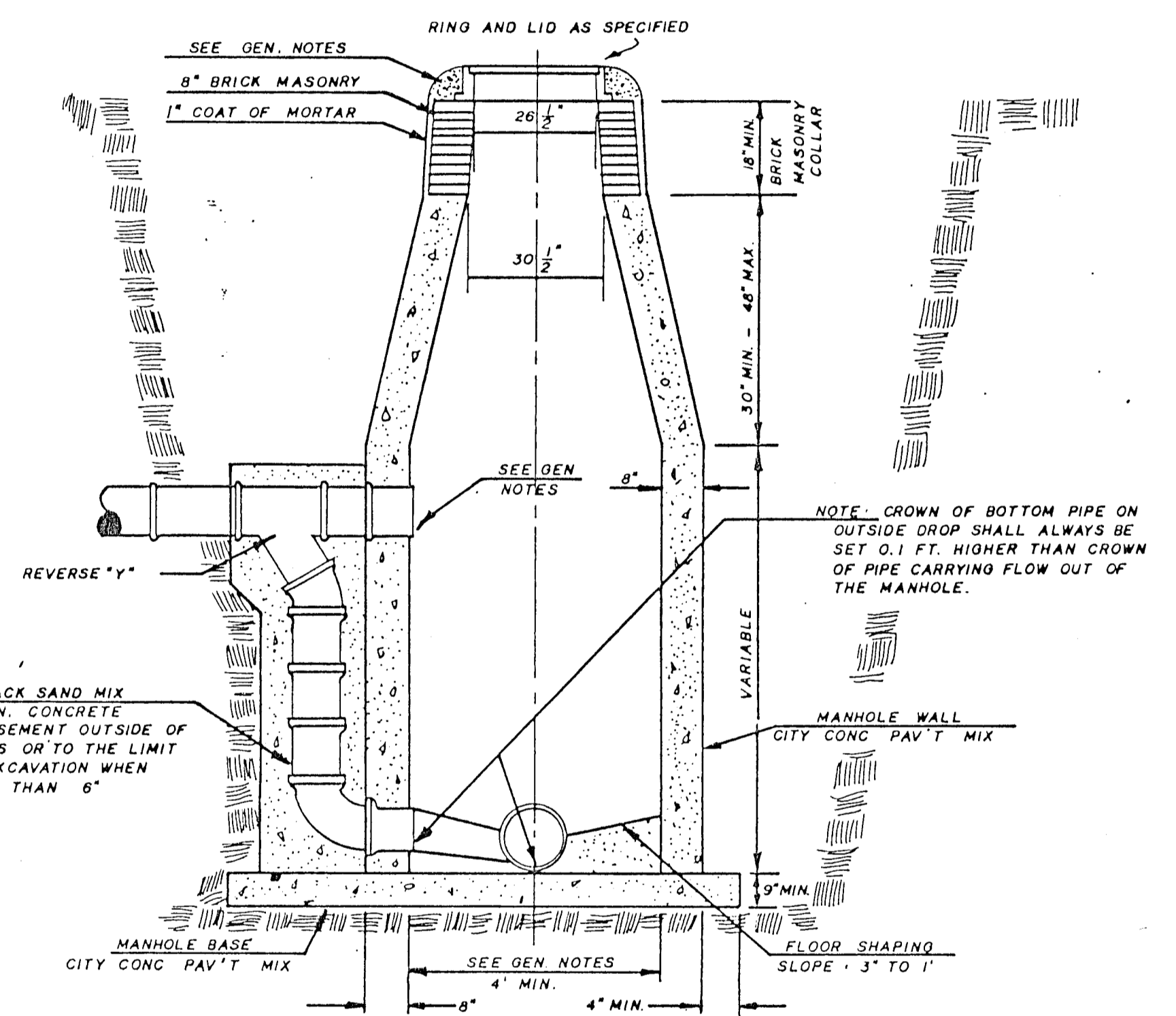
STANDARD MANHOLE TYPE "C"



INSIDE DROP MANHOLE TYPE "C"



OUTSIDE DROP MANHOLE TYPE "C"



GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE WALLS AND 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 "C" MANHOLES CAN BE CONSTRUCTED ONLY WHERE PIPE SIZES ARE 8" OR SMALLER. THE INSIDE DIAMETER OF TYPE "C" MANHOLES SHALL BE 4'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASE. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. REINFORCING STEEL SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. COST OF FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- AN OPENING SHALL BE CUT IN THE MANHOLE WALL FOR THE UPPER INLET PIPE FOR INSIDE AND OUTSIDE DROP MANHOLES. THE UPPER INLET PIPE SHALL BE GROUTED INTO THIS OPENING WITH NON-SHRINK GROUT. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT.
- 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 MANHOLE 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 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.
- STANDARD MANHOLES TYPE "C" AND STANDARD INSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

# VERTICAL RISER DETAIL

ADOPTED AS STANDARD DESIGN  
BY

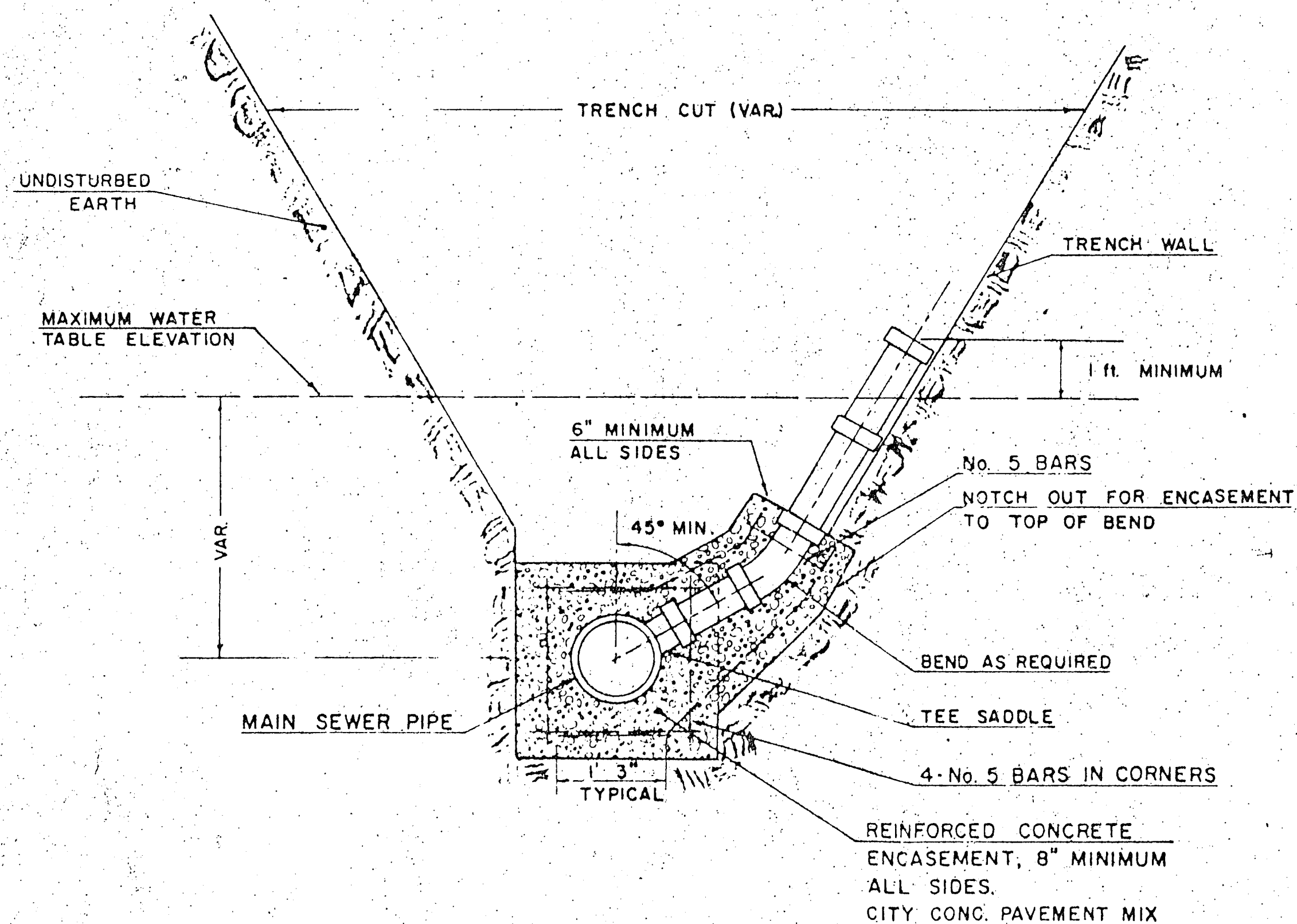
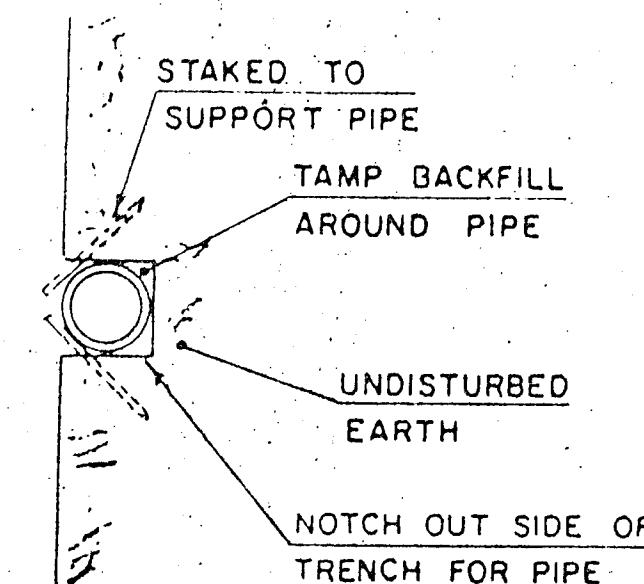
CITY OF WICHITA, KANSAS

GENERAL NOTE

RISERS SHALL BE INSTALLED TO SERVE ALL LOTS OR TRACTS WHEN THE MAIN SEWER LINE IS BELOW THE WATER TABLE. RISERS SHALL ALSO BE INSTALLED TO SERVE ALL LOTS AND TRACTS WHEN THE MAIN SEWER LINE DEPTH IS SUCH THAT WOULD MAKE THE BUILDING SEWER LINE CONNECTION DIFFICULT. INSTALLATION OF RISERS BECAUSE OF MAIN LINE SEWER DEPTH SHALL BE AS APPROVED BY THE ENGINEER. THE LOCATION OF RISERS TO SERVE DEVELOPED PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. PIPE STUBS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PROVIDE SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER. THE VERTICAL DISTANCE BETWEEN THE FLOW LINE OF THE MANHOLE PIPE STUB AND THE FLOW LINE OF THE MAIN SEWER LINE SHALL NOT EXCEED 4 FEET. MANHOLE PIPE STUBS SHALL NOT BE SET BELOW AN ELEVATION WHICH WILL PERMIT THE TOP OF THE INSIDE OF THE STUB TO MATCH THE TOP OF THE INSIDE OF THE MAIN SEWER PIPE. PIPE STUBS AND RISERS INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY SHALL BE 6 INCH. PIPE STUBS AND RISERS INSTALLED TO SERVE RESIDENTIAL PROPERTY MAY BE EITHER 6 INCH OR 4 INCH DEPENDING UPON THE AVAILABLE GRADE AND THE SIZE OF THE LOT AS DETERMINED BY THE FIELD ENGINEER. ENCASUREMENT OF VITRIFIED CLAY MAIN SEWER PIPE SHALL EXTEND TO THE FIRST JOINT IN THE MAIN SEWER CLAY PIPE ON EACH SIDE OF THE RISER INSTALLATION. ENCASUREMENT OF A.B.S. COMPOSITE OR P.V.C. MAIN SEWER PIPE SHALL EXTEND A MINIMUM OF 1 FT. ON BOTH SIDES OF THE CENTERLINE OF THE RISER. FOUR INCH AND SIX INCH RISER PIPE SHALL BE ENCASED WITH CONCRETE TO THE TOP OF THE BEND AS INDICATED IN THE DRAWINGS. FOUR INCH AND SIX INCH CLAY PIPE USED FOR RISERS SHALL BE EXTRA STRENGTH PIPE CONFORMING TO THE REQUIREMENTS OF THE LATEST REVISION OF A.S.T.M. DESIGNATION C700 WITH COMPRESSION JOINTS AS SPECIFIED FOR CLAY PIPE IN THE STANDARD SPECIFICATIONS. FOUR INCH AND SIX INCH A.B.S. OR P.V.C. PIPE SHALL BE PIPE APPROVED FOR USE IN THE CITY BY THE CHIEF PLUMBING AND MECHANICAL INSPECTOR FOR THE CENTRAL INSPECTION DIVISION OF THE DEPARTMENT OF HOUSING AND ECONOMIC DEVELOPMENT. LOCATIONS OF THE ENDS OF THE RISERS SHALL BE MARKED BY FASTENING GREEN COLORED PLASTIC TAPE TO THE END OF THE RISER WHICH SHALL BE EXTENDED TO THE GROUND SURFACE AS THE EXCAVATION IS BACKFILLED SUCH THAT THE COLORED TAPE WILL BE VISIBLE WHEN THE PROJECT IS COMPLETED. THE ENDS OF THE RISER PIPE AND MANHOLE STUBS SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE PIPE. CONTRACTOR'S METHODS FOR SUPPORTING AND BACKFILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER.

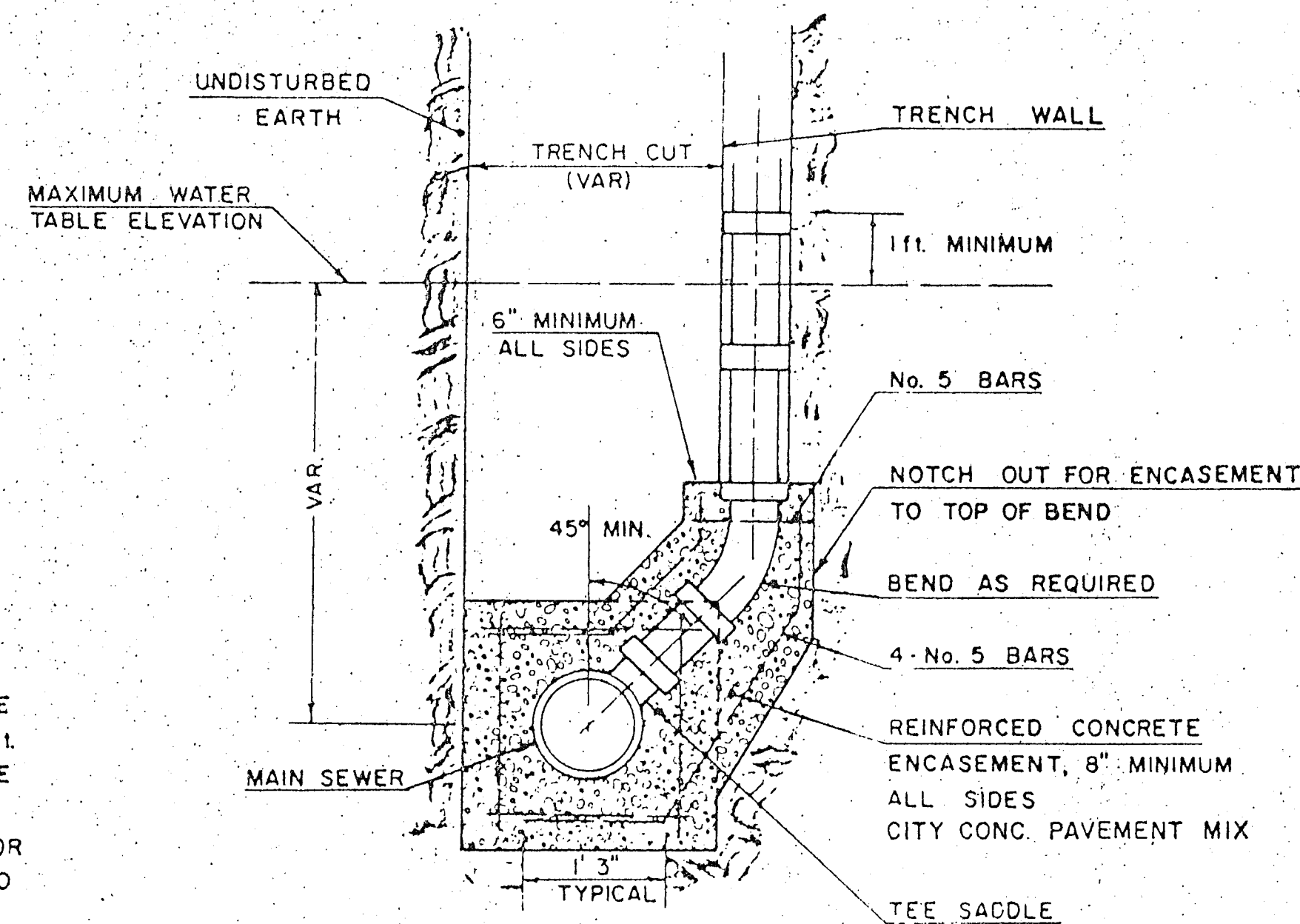
FURNISHING AND INSTALLING RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 6" PIPE AND REINFORCED CONCRETE ENCASUREMENT FOR THE VARIOUS MAIN SEWER PIPE SIZES INDICATED; WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING SADDLES, BENDS, CONCRETE, REINFORCING STEEL, CAPS OR PLUGS, AND ALL OTHER NECESSARY MATERIALS OR WORK. CONCRETE ENCASUREMENT OF THE RISER PIPE TO THE TOP OF THE BEND AS SHOWN BY THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

THE PROJECT INSPECTOR SHALL REPORT ON INSPECTOR CARDS THE LOCATION OF ALL RISERS CONSTRUCTED AS MEASURED FROM THE NEAREST MANHOLE, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER, AND THE PAY QUANTITIES INVOLVED. THE PROJECT INSPECTOR SHALL ALSO REPORT ON INSPECTOR CARDS THE LOCATION, DIRECTION OF SERVICE, AND SIZE OF ALL STUBS INSTALLED IN MANHOLES.



TYPICAL RISER FOR SLOPING TRENCH WALLS

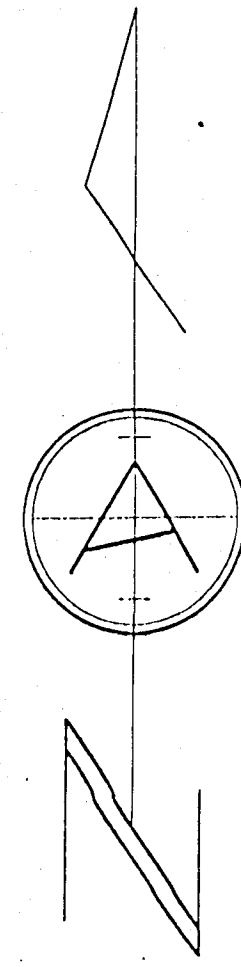
NOTE:  
TOP OF 4" OR 6" RISER PIPE TO BE EXTENDED TO AN ELEVATION OF 1 FT. MINIMUM ABOVE THE WATER TABLE ELEVATION, WHEN WATER EXISTS, OR TO AN ELEVATION SUITABLE FOR PROVIDING SERVICE TO THE LOT TO BE SERVED AND THEN PLUGGED.



TYPICAL RISER FOR VERTICAL TRENCH WALLS



# WALKER'S COBBLESTONE ADDITION TO SEDGWICK COUNTY, KANSAS



1"=20'

○ - 5/8" Rebar set

