CONSTRUCTION PLANS

LATERAL 43, MAIN 9, SANITARY SEWER NO. 23

WHISPERING BROOK ADDITION

TO

THE CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER

PROJECT NO. 468-82163

INDEX NO. 740985

GENERAL NOTES:

1. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by other prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

2. 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.

3. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

4. The Contractor shall be responsible for preserving property irons. 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 or a licensed professional engineer in accordance with state laws.

5. All lawn/turf areas disturbed by construction of the proposed improvements shall be restored with the same grass/sod as existing. Restoration of disturbed areas shall include, but not be limited to, topsoil preparation, seeding, mulch, and/or reseeding. All seeding/sodding work shall be in accordance with the City of Wichita Standard Specifications and the City of Wichita Administrative Regulation No. AR78 which governs cleanup and restoration or replacement following construction.

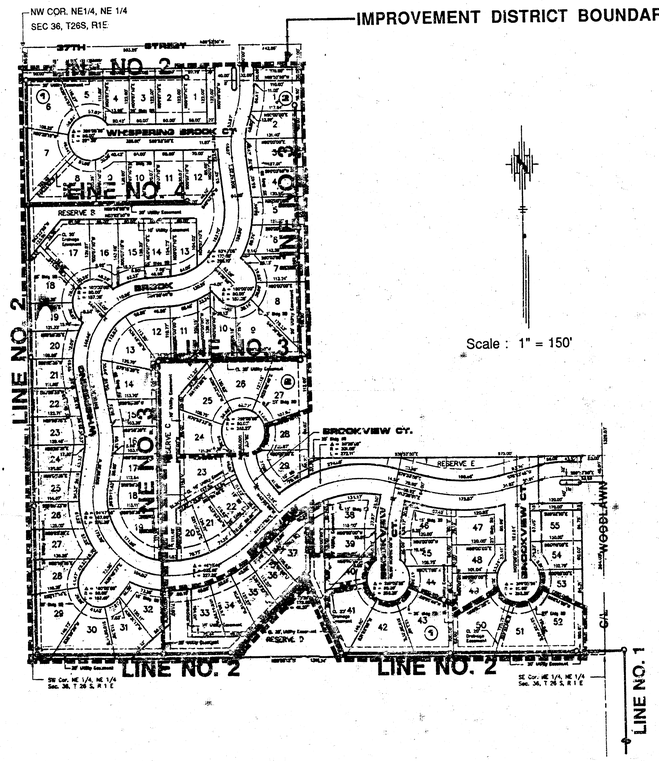
6. A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within 3 feet (3') of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.

7. 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.

8. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

9. Pavement removal and/or replacement will be measured and paid for on the lineal foot basis as measured along the centerline of the sewer regardless of width or thickness. Minimum limits of such pavement removal and replacement shall be one foot beyond the limits of the excavation made for the sewer or the structure, except when the lines of removal are within three (3) feet of an existing joint. Removal and replacement of existing pavement shall conform to the applicable sections of the City of Wichita Standard Specifications.

10. Grade all easements to match existing ground unless otherwise shown.



Scale : 1" = 150'

INDEX

TITLE SHEET	SHEET 1
LINE NO. 1	SHEET 2
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WHISPERING BROOK ADDITION	

BENCH MARKS

(City of Wichita Datum)

1. City of Wichita std. BM disc. at 37th & Edgemoor.
   39' N. & 44' E. of 1/4 Section Corner.
   Elev. 193.66

2. Railroad Spike in N. face power pole. 110' W. & 30' S. of NW Cor. NE 1/4, NE 1/4 Sec. 36-26-1E
   Elev. 188.67

3. Top of iron pipe at SW Cor. of NE 1/4, NE 1/4 Sec. 36-26-1E. (SW Cor. Lot 29, Block 1)
   Elev. 182.35

4. Top of steel "T" post driven flush with the ground, 5' N & 55' W of SE Cor. NE 1/4, NE 1/4 Sec. 36.
   Elev. 178.07

5. City of Wichita std. BM disc at 37th & Woodlawn. 55.7' E. & 56.3' S of center of intersection.
   Elev. 183.04

NOVEMBER 1991

PLANS PREPARED

BY

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

AS BUILT
RDL
9-92

KENNY E. HILL
LICENSED
7690
KANSAS
PROFESSIONAL ENGINEER

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. — ALIGNMENT CHECKED / GRADES CHECKED / AS-BUILT CHECKED — DATE / BY

Sta. 0+00 Line No. 1
Connect to Exist. RC MH
(SEE DETAIL)

Sta. 2+63.29 Line No. 1
Construct Type "P" or "C" MH

Sta. 7+47.82 Line No. 1
Sta. 0+00 Line No. 2
Construct. Type "p" or "C" MH
8" Stub N
FL = 166.60

WHISPERING BROOK ADDITION

52 | 53 | 54

Water Valve

S.E. Cor., N.E. 1/4, N.E. 1/4
Sec. 36-26-1E

LINE NO. 2

20' Utility Esmt.

5'

CAUTION
Exist. 24" L.J. Water Line
Verify Depth

24" L.J. Waterline

Remove and Replace Sidewalk

Concrete Bridge

18" Sanitary Sewer

WOODLAWN BLVD.

Backfill Trench with Flowable Fill where under Future Pavement According to Supplemental Specifications.

Contractor May Bore And Encase at Their Option

CAUTION
Exist. 4" Stl. Gas Line
Verify Depth

Existing Concrete Pavement

Exist. Asphalt Pavement

Exist. Curb & Gutter

4' Sidewalk

24" RCP

LINE NO. 1

12" RCP

12'

50' R.O.W. S/L

24" Elm

24" Elm

12" Elm

30" Elm

Hedgerow

4" STL. Gas Line

G

LINE NO. 1

3.37'

80' R.O.W. S/L

15' Utility Esmt
(separate instrument)

20'

4' Sidewalk

34TH ST. NO.

FH

4' Sidewalk

70'

Exist. Asphalt Pavement

Remove and Replace 24" RCP and End Section

Reseed and Restore. Cost Subsidiary to Sewer Line Construction (See General Note No. 5)

Remove and Replace Asphalt Pavement. Traffic on Woodlawn One Traffic Lane Must be Maintained in Each Direction During Construction

CAUTION
Exist. 18" Sanitary Sewer
Verify Depth

Remove and Replace Sidewalk

CAUTION
Exist. 12" Water line Crossing
Verify Depth

Sta. 6+44.82 Line No. 1
Construct Type "P" or "C" MH

Remove and Replace 12" RCP

Channel

Drainage & Utility Esmt.
" By Seperate Instrument"

70 L.F. 18" Stl. Casing Pipe with 0.250 Wall Thickness Installed by Boring

Sta. 1+57.95 Line No. 1
Construct Type "P" or "C" MH

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
PLAN: 1" = 40'
PROFILE :
HORIZ: 1" = 40'
VERT: 1" = 8'

EXISTING MANHOLE CONNECTION DETAIL
NO SCALE

Inside of wall
Wall of Std. Precast Manhole
Rope Ram-nek joint
Ram-nek is to be packed around pipe
c/i Pipe
Stub is to extend 1" inside of Manhole
Cement grout around pipe
New plastic lining to be applied
Existing plastic lining

LINE NO. 1

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — GRADES CHECKED / AS-BUILT CHECKED / STRUCTURE NO.(S) CHECKED — DATE / BY

Sta. 0+00 Line No. 1 Connect to Exist. RC MH (SEE DETAIL)
Sta. 1+57.95 Line No. 1 Constr. Std. Outside Drop MH Type "P" or "C"
Sta. 2+63.29 Line No. 1 Constr. Std. MH Type "C" or "P"
Sta. 6+44.82 Line No. 1 Constr. Std. MH Type "C" or "P"
Sta. 7+47.82 Line No. 1 Constr. Std. MH Type "C" or "P"

Top MH Elev. 174.00 (was 173.98)
Top MH Elev. 175.00 (was 174.86)
Top MH Elev. 179.80 (was 179.37)
Top MH Elev. 178.20

Existing Ground Profile
East Edge Of Asph. Pavement
Top Flowable Fill 177.0
Flowable Fill

4" Gas Line Verify Depth
12" Water Line Verify Depth
24" RCP
18" San. Sewer FL 171.9+/- Verify Elev.
24" Water Line Top 171.63

70 LF of 18" Stl. Encasement Pipe Installed By Boring 0.250" Wall Thickness (SEE SPECS)

105.34 L.F. of 8" Pipe @ 0.4% Grade
381.53 L.F. of 8" Pipe @ 0.4% Grade
103 L.F. of 8" Pipe @ 0.4% Grade
157.55 L.F. of 8" Pipe @ 3.53% Grade

FL. Out=153.98 (was 153.92)
FL. In=153.88 (was 153.82)
FL. Out=159.36 (was 159.30)
FL. In=159.26 (was 159.20)
FL. Out=164.36 (was 164.28)
FL. In=164.26 (was 164.18)
FL. Out=166.69 (was 166.63)
FL. In=166.59 (was 166.53)

157.45 | 164.11 | 164.61 | 165.01 | 165.41 | 165.81 | 166.31 | 166.50

0 | 1 | 2 | 3 | 4 | 5 | 6 | 7

180 | 175 | 170 | 165 | 160 | 155 | 150

EXISTING MANHOLE CONNECTION DETAIL
NO SCALE

OUTSIDE VIEW
Drill 1/2" holes thru manhole wall
22 1/2°
Break joints

INSIDE VIEW
Cuts to be made in removing plastic lining at entrance of pipe
45°
Fold strips of lining back into well

INSIDE VIEW
Plastic lining to be applied to inside of manhole

A= OUTSIDE DIAMETER OF PIPE + 2"

LISTING OF CURRENTLY SET COORDINATE POINTS

STATION LINE NO. 1	(N)	(E)
0 + 00	3038.3800	5075.7460
1 + 57.95	3196.3330	5075.9670
2 + 63.29	3294.3870	5037.4740
6 + 44.82	3675.9170	5038.0079
7 + 47.82	3678.0610	4935.0000

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER K. Ille
ENG. TECH
DRAWN BY R. Johnson
DATE NOV. 1991
SHEET 2 OF 12

Whispering Brook Addition
Sanitary Sewer – Line No. 1
CITY OF WICHITA, KANSAS
Project No. 468-82183
Index Code 744095

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

SE Cor. NE 1/4, NE 1/4
Sec. 36-26-1E

Sta. 0+00 Line No. 2
Sta. 7+47.82 Line No. 1
Constr. Std. MH Type "C" or "P"
8" Stub (N)
FL = 166.60'

Sta. 2+88 Line No. 2
Constr. Std. MH Type "C" or "P"
8" Stub (N)
FL = 167.75'

Sta. 5+40.77 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 9+65.07 Line No.2
Constr. Std. MH Type "C" or "P"

Sta. 7+22.66 Line No. 2
Constr. Std. MH Type "C" or "P"
8" Stub (N)
FL = 169.59'

LINE NO. 1

LINE NO. 2

RES. "D"

WOODLAWN BLVD.

BROOKVIEW CT.

BROOKVIEW CT.

BROOKVIEW

20' Utility Easement

5'

50.00'

74.00' 134.00' 90.00' 88.95' 161.05'

100.07' 131.34' 125.15' 82.00' 108.50' 128.46' 145.90' 103.95' 50.00'

84.31' 112.64' 120.46' 96.94' 86.44' 110.52' 95.86' 70.00'

102.79' 101.04' 106.75' 115.00'

60.00' 120.00' 60.00'

38.50' 36.00' 39.70' 33.26' 33.41' 38.37' 40.23' 28.00'

44.24' 42.33' 43.47' 47.26' 19.40' 55.59'

3.81' 65.23' 38.00'

69.82' 29.86' 49.00' 79.44'

127.27' 120.18' 104.91'

112.57' 52.68' 45.98'

109.83' 36.49' 49.52'

51	52	50	49
53	54	48	
43	42	41	
44	45	40	39
34	33	35	36
37			

LISTING OF CURRENTLY SET COORDINATE POINTS

STATION LINE NO. 2	(N)	(E)
0 + 00	3676.0608	4935.9000
2 + 88	3676.4631	4647.0000
5 + 40.77	3676.8162	4394.2320
7 + 22.66	3842.4145	4319.0000
9 + 65.07	3677.1690	4141.6460

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
PLAN: 1" = 40'
PROFILE :
HORIZ: 1" = 40'
VERT: 1" = 8'

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
DIMS CHECKED
NO.
B. M.'S NOTED
STRUCTURE NOTES CHECKED
DATE
BY

LINE NO. 2

Sta. 0+00 Line No. 2
Sta. 7+47.82 Line No. 1
Constr. Std. MH Type "C" or "P"

Sta. 2+88 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 5+40.77 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 7+22.66 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 9+65.07 Line No.2
Constr. Std. MH Type "C" or "P"

Finish Grade
Existing Ground Profile
Finish Grade

Top MH Elev. 178.5
Top MH Elev. 178.1
Top MH Elev. 177.8
Top MH Elev. 179.2
Top MH Elev. 180.6

8" Stub (N)
FL= 166.60

8" Stub (N)
FL= 167.75

8" Stub (N)
FL= 169.59

185 180 175 170 165

288 L.F. of 8" Pipe @ 0.4% Grade
252.77 L.F. of 8" Pipe @ 0.4% Grade
181.89 L.F. of 8" Pipe @ 0.4% Grade
242.41 L.F. of 8" Pipe @ 0.4% Grade

166.90 166.90 167.30 167.65 168.10 168.50 FL Out= 168.66 FL In= 168.76 169.00 169.40 FL Out= 169.19 FL In= 169.59 169.90 170.30 FL Out= 170.56 In= 170.66

0 1 2 3 4 5 6 7 8 9

PROFILE
SURVEYED
PLOTTED
DIMS CHECKED
NOTE BOOK
B. M.'S NOTED
NO.
STRUCTURE NOTES CHECKED
DATE
BY

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-3114

ENGINEER K. Hill
ENG. TECH
DRAWN BY R. Johnson
DATE NOV. 1991
SHEET 3 OF 12

Whispering Brook Addition
Sanitary Sewer – Line No. 2
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code

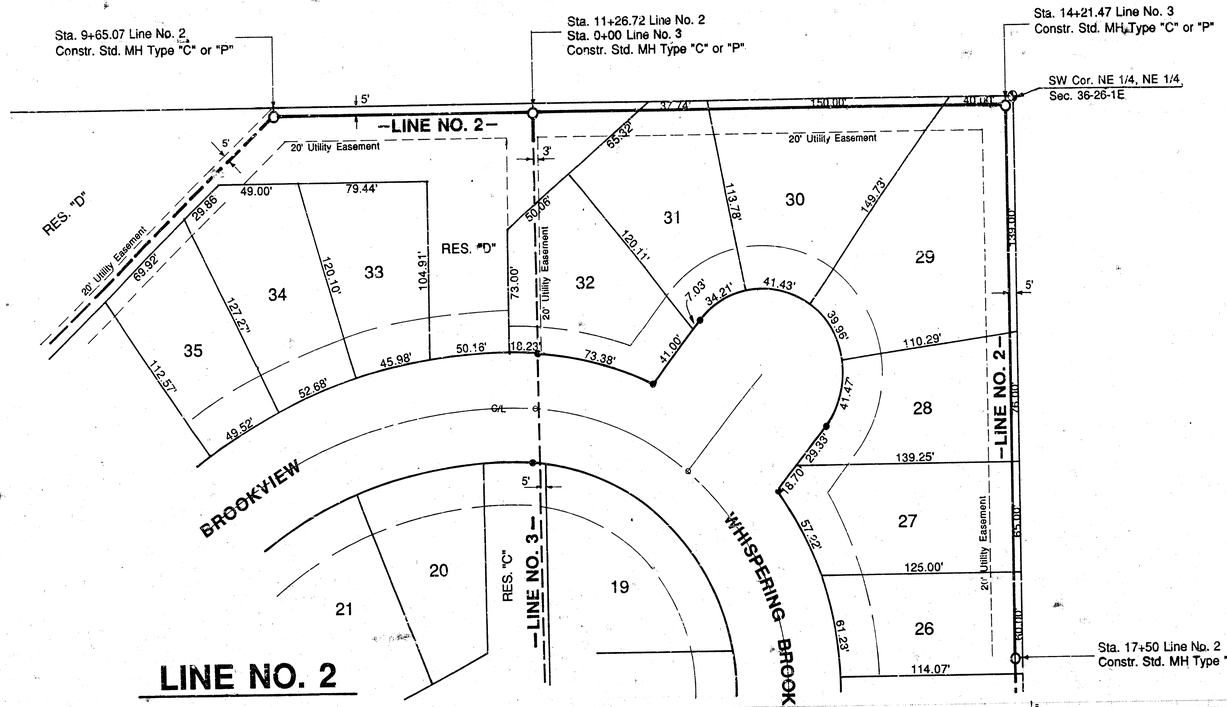
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

Sta. 9+65.07 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 11+26.72 Line No. 2
Sta. 0+00 Line No. 3
Constr. Std. MH Type "C" or "P"

Sta. 14+21.47 Line No. 3
Constr. Std. MH Type "C" or "P"

SW Cor. NE 1/4, NE 1/4, Sec. 36-26-1E



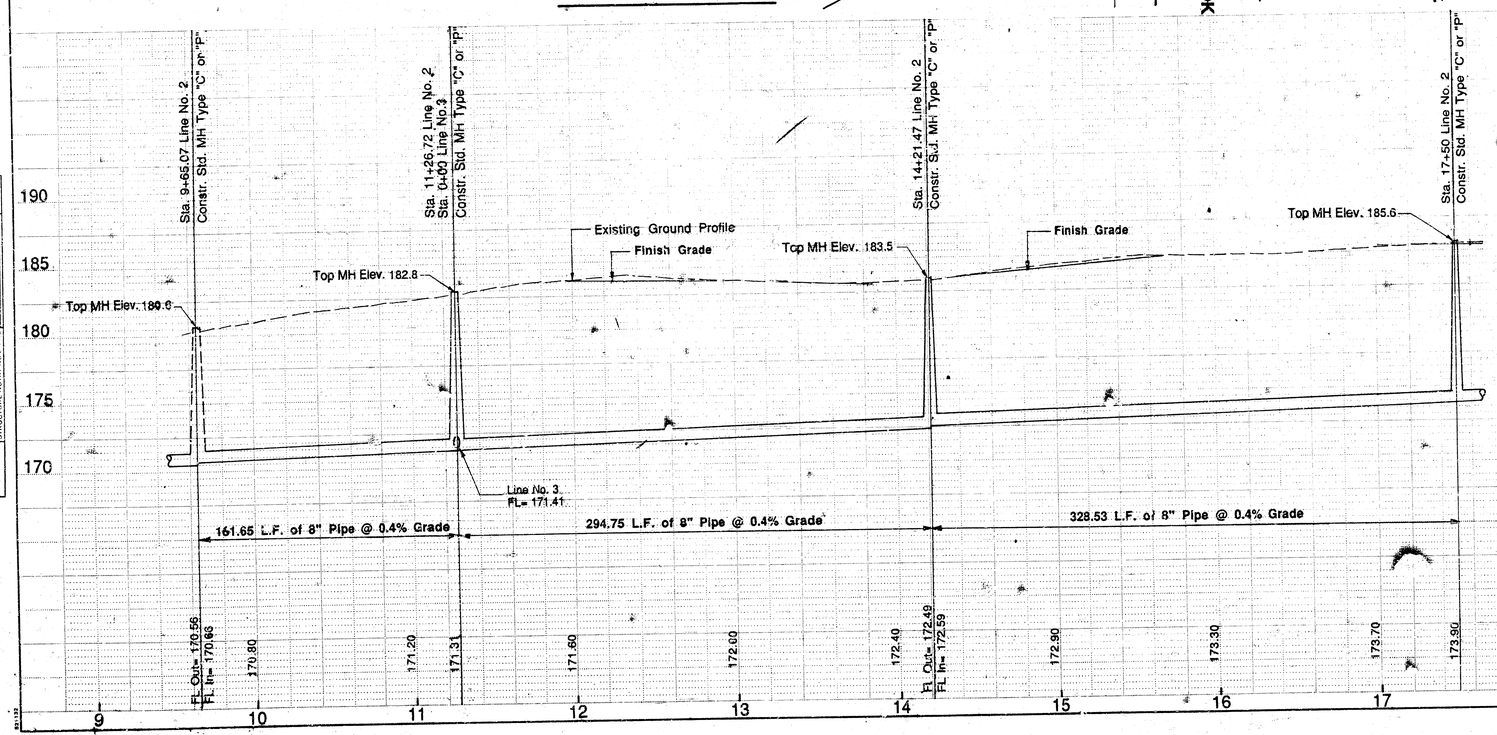
Sta. 17+50 Line No. 2
Constr. Std. MH Type "C" or "P"

LISTING OF CURRENTLY SET COORDINATE POINTS

STATION LINE NO. 2	(N)	(E)
9 + 65.07	3677.1690	4141.6460
11 + 26.72	3677.3948	3980.0000
14 + 21.47	3677.8066	3685.2548
17 + 50	4003.3365	3685.1206

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
PLAN: 1" = 40'
PROFILE : HORIZ: 1" = 40'
VERT: 1" = 5'

LINE NO. 2



POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER K. Poe	Whispering Brook Addition
ENG. TECH	Sanitary Sewer – Line No. 2
DRAWN BY R. Johnson	CITY OF WICHITA, KANSAS
DATE NOV. 1991	Project No. 468-82163
SHEET 4 OF 12	Index Code 740-85

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

If storm sewers and grading have been completed in this area match finish grades shown, otherwise match existing ground

Sta. 17+50 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 20+75 Line No.2
Constr. Std. MH Type "C" or "P"

Sta. 24+01.41 Line No. 2
Sta. 0+00 Line No. 4
Constr. Std. MH Type "C" or "P"

Sta. 26+75.41 Line No. 2
Constr. Std. MH Type "C" or "P"

F 181.20 Match Ex.
F 181.80 Match Ex.

LINE NO. 2

LINE NO. 4

20' Utility Easement

20' Drainage Easement

RES. "B"

30" RCP STORM SEWER

24" RCP Storm Sewer

WHISPERING BROOK

WHISPERING BROOK CT.

6.5' Water Line Easement
20' PVC Water Line

STATION LINE NO. 2	(N)	(E)
17 + 50	4003.3365	3685.1206
20 + 75	4331.3365	3684.9853
24 + 01.41	4657.7418	3684.8507
26 + 75.41	4931.7427	3684.7377

LISTING OF CURRENTLY SET COORDINATE POINTS

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
PLAN: 1" = 40'
PROFILE :
HORIZ: 1" = 40'
VERT: 1" = 5'

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWING CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

LINE NO. 2

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWING CHECKED
B.M.'S NOTED
CONSTRUCTION NOTATIONS CHECKED
BY
DATE

Top MH Elev. 185.6
Finish Grade
Top MH Elev. 184.2
Existing Ground Profile
Finish Grade
Top MH Elev. 185.5
Top MH Elev. 187.4
24" RCP Storm Sewer FL= 181.80
Line No. 4 FL= 176.61

325 L.F. of 8" Pipe @ 0.4% Grade
326.41 L.F. of 8" Pipe @ 0.4% Grade
274 L.F. of 8" Pipe @ 0.4% Grade

FL Out= 177.60
FL In= 177.70

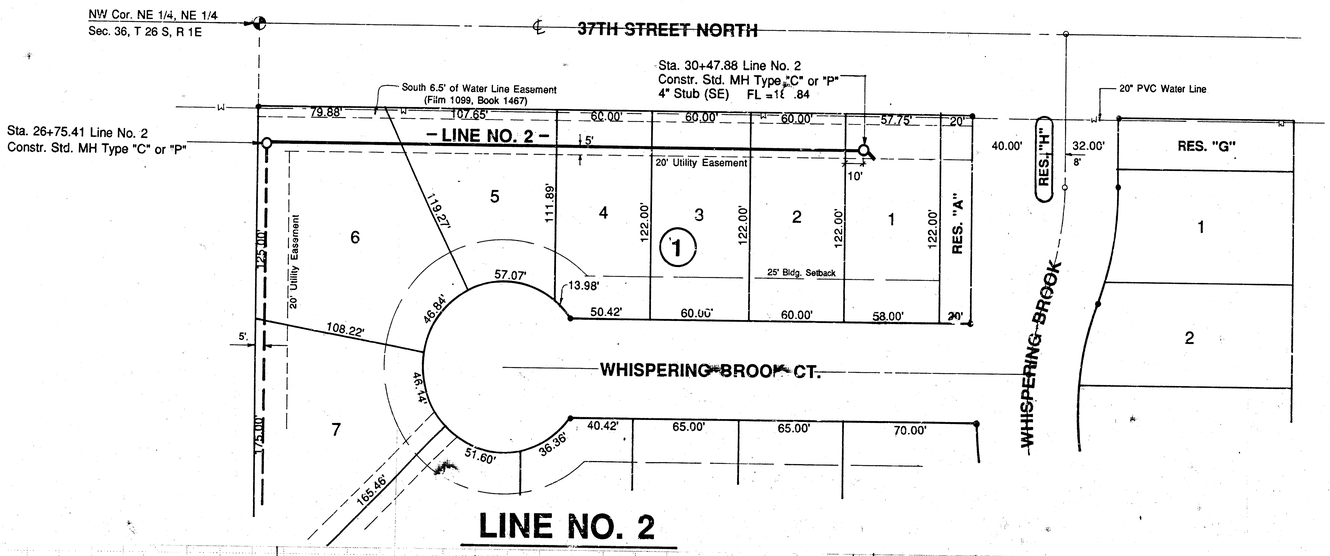
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434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER K. Hill
ENG. TECH
DRAWN BY R. Johnson
DATE NOV. 1991
SHEET 5 OF 12

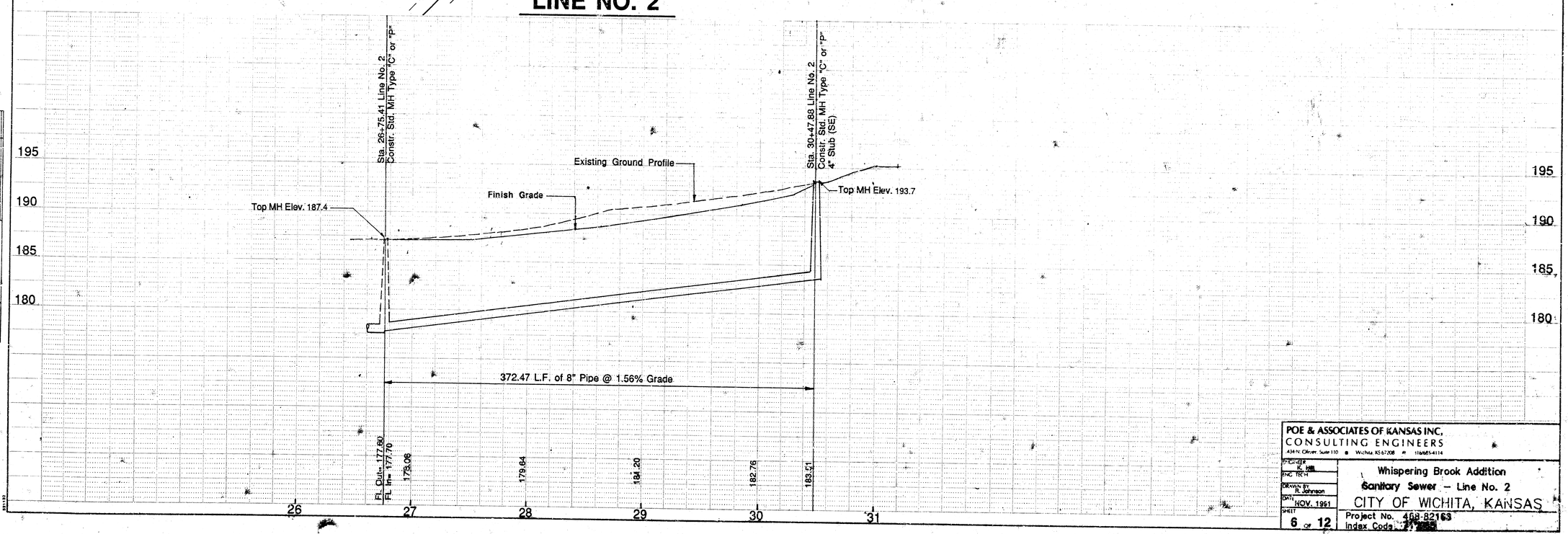
Whispering Brook Addition
Sanitary Sewer – Line No. 2
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code 74

	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — DATE / BY
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
NO.
RT. OF WAY CHECKED



LINE NO. 2



PROFILE — DATE / BY
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
STRUCTURE NOTATIONS CHKD.
NO.

LISTING OF CURRENTLY SET COORDINATE POINTS

STATION LINE NO. 2	(N)	(E)
26 + 75.41	4931.7427	3684.7377
30 + 47.88	4930.6959	4057.2108

GRAPHIC SCALE
40 0 20 40 30
(IN FEET)
PLAN: 1" = 40'
PROFILE:
HORIZ: 1" = 40'
VERT: 1" = 5'
5
0

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER	K. Hill
ENG. TECH	
DRAWN BY	R. Johnson
DATE	NOV. 1991
SHEET	6 OF 12

Whispering Brook Addition
Sanitary Sewer – Line No. 2
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code

	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

Sta. 0+00 Line No. 3
Sta. 11+26.72 Line No. 2
Constr. Std. MH Type "C" or "P"

Flowable Fill

Sta. 2+93.17 Line No. 3 8" Stub (NE)
Constr. Std. MH Type "C" or "P"
8" Stub (NE) FL= 177.68

Sta. 6+39.73 Line No. 3
Constr. Std. MH Type "C" or "P"

—LINE NO. 3—

RES. "C"

RES. "C"

20' Utility Easement

10' Utility Easement

25' Bldg. Setback

BROOKVIEW

BROOKVIEW CT.

WHISPERING BROOK

Sta. 9+69.73 Line No. 3
Constr. Std.-MH Type "C" or "P"

PLAN

DATE	BY	

SURVEYED
DRAWN
CHECKED
NOTE BOOK
NO.

ALIGNMENT CHECKED
RT. OF WAY CHECKED

LISTING OF CURRENTLY SET COORDINATE POINTS

STATION LINE NO. 3	(N)	(E)
2 + 93.17	3970.5693	3980.0000
6 + 39.73	4317.1256	3980.0000
9 + 69.73	4316.4379	4310.0000
12 + 50	4596.2093	4310.0000
15 + 18.20	4864.9093	4310.0000

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
PLAN: 1" = 40'
PROFILE :
HORIZ: 1" = 40'
VERT: 1" = 5'

LINE NO. 3

Sta. 0+00 Line No. 3
Sta. 11+26.72 Line No. 2
Constr. Std. MH Type "C" or "P"

Sta. 2+93.17 Line No. 3
Constr. Std. MH Type "C" or "P"

Sta. 6+39.73 Line No. 3
Constr. Std. MH Type "C" or "P"

Sta. 9+69.73 Line No. 3
Constr. Std. MH Type "C" or "P"

Top MH Elev. 182.8

Future Street Grade

Top Flowable Fill 181.0

Flowable Fill

Top MH Elev. 184.9

Existing Ground Profile

Top MH Elev. 189.4

Finish Grade

Top MH Elev. 186.1

Line No. 2
FL= 171.31

8" Stub (NE)
FL= 177.68

293.17 L.F. of 8" Pipe @ 0.4% Grade

346.56 L.F. of 8" Pipe @ 0.4% Grade

330 L.F. of 8" Pipe @ 0.4% Grade

FL Out= 171.31
FL In= 171.41

FL Out= 174.97
FL In= 174.07

FL Out= 175.39
FL In= 177.39

PROFILE
SURVEYED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
BI. AS NOTED
STRUCTURE NOTATIONS CHANGED

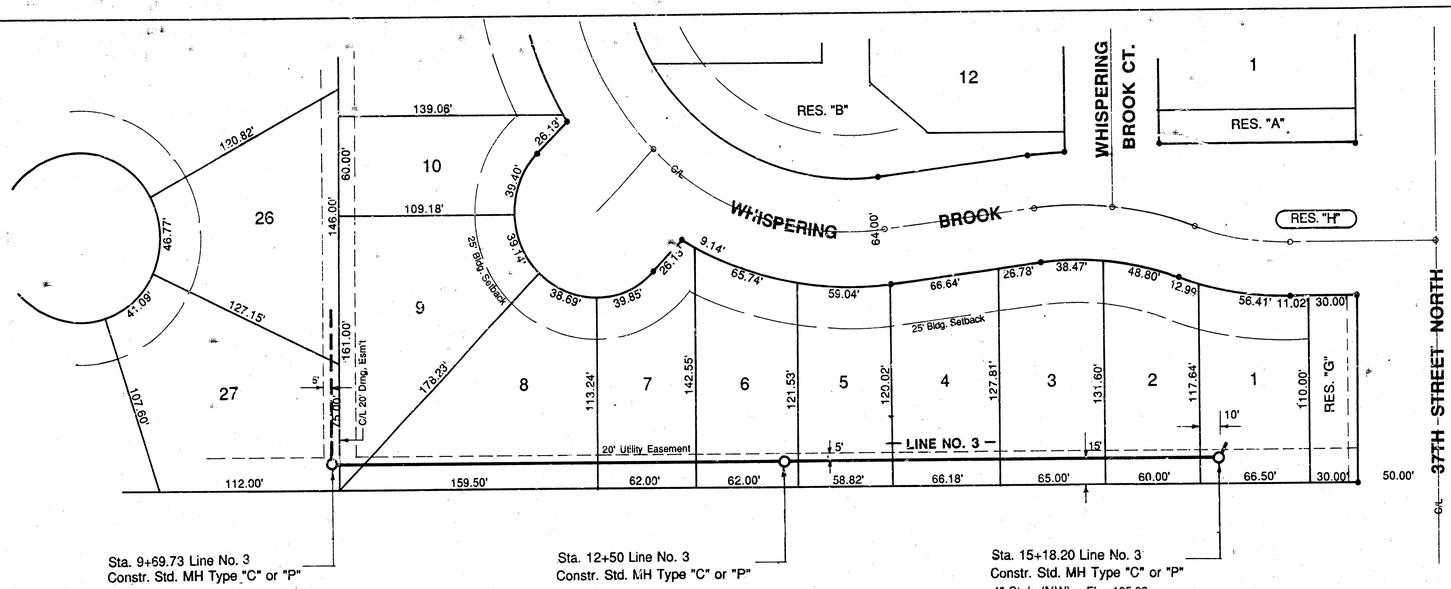
POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita KS 67208 ■ 316.685.4714

ENGINEER K. MB
ENG. TECH
DRAWN BY R. Johnson
DATE NOV. 1991
SHEET 7 OF 12

Whispering Brook Addition
Sanitary Sewer — Line No. 3
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code 740485

	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — SURVEYED, PLOTTED, NOTE BOOK, NO., AUGMENT CHECKED, BY: OF MAT'L REQ'D., DATE



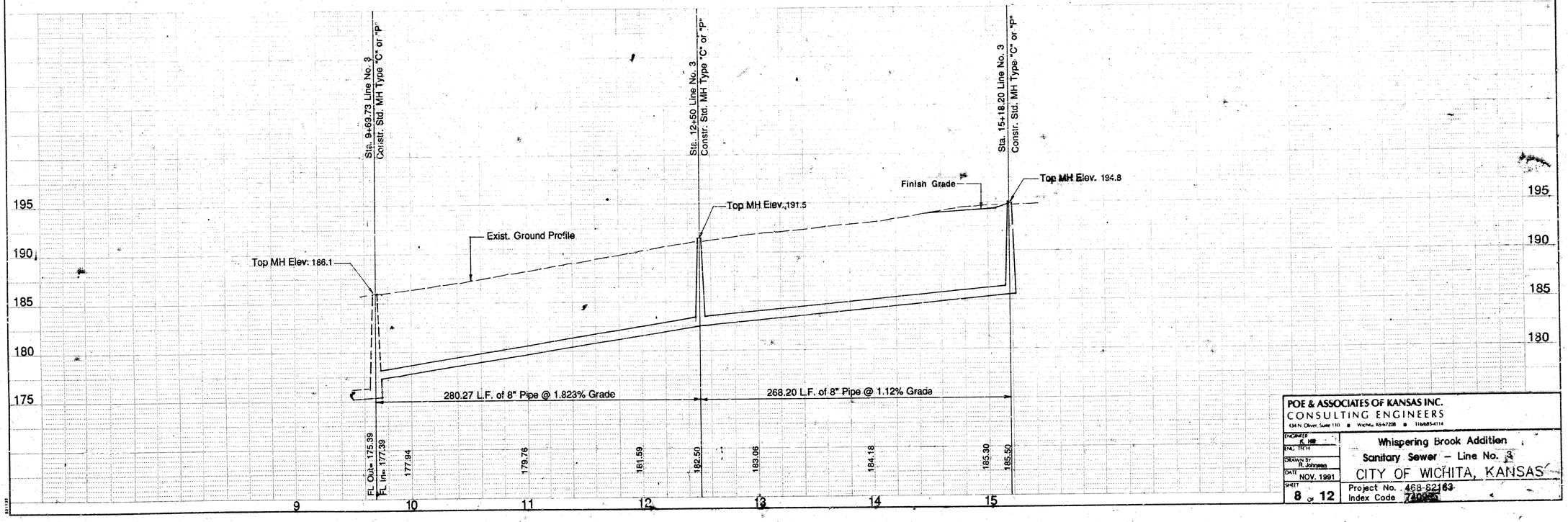
LISTING OF CURRENTLY SET COORDINATE POINTS

STATION LINE NO. 3	(N)	(E)
9 + 69.73	4316.4379	4310.0000
12 + 50	4596.2093	4310.0000
15 + 18.20	4864.9093	4310.0000

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
PLAN: 1" = 40'
PROFILE :
HORIZ: 1" = 40'
VERT: 1" = 5'
5
0

LINE NO. 3

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, NO., DRAWN BY, CHECKED, B.M.'S NOTED, STRUCTURE NO'S NOTED, DATE



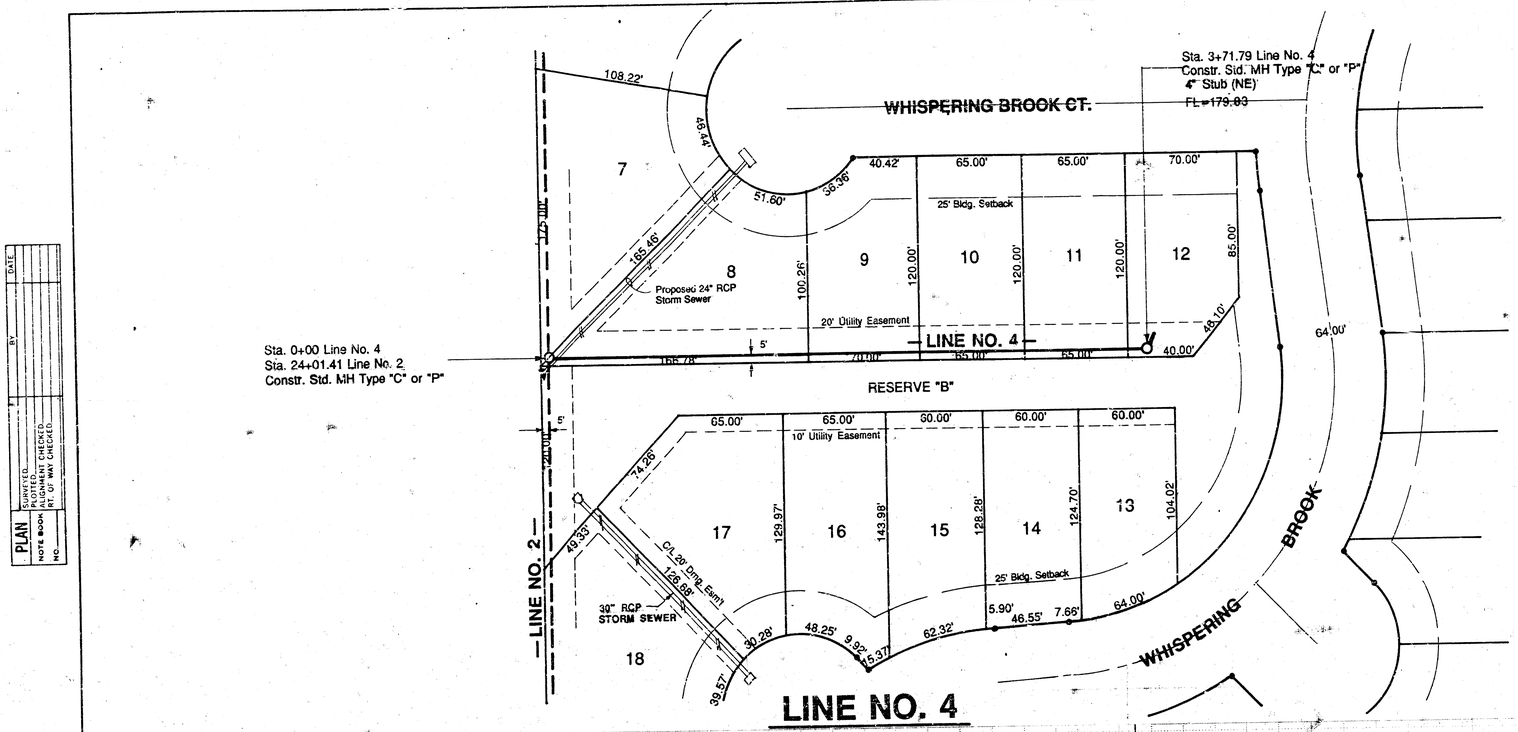
POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER	K. HP
ENG. TECH	
DRAWN BY	R. Johnson
DATE	NOV. 1991
SHEET	8 OF 12

Whispering Brook Addition
Sanitary Sewer – Line No. 3
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code 720525

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. — ALIGNMENT CHECKED / RT. OF WAY CHECKED / BY / DATE



LISTING OF CURRENTLY SET COORDINATE POINTS

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GRAPHIC SCALE

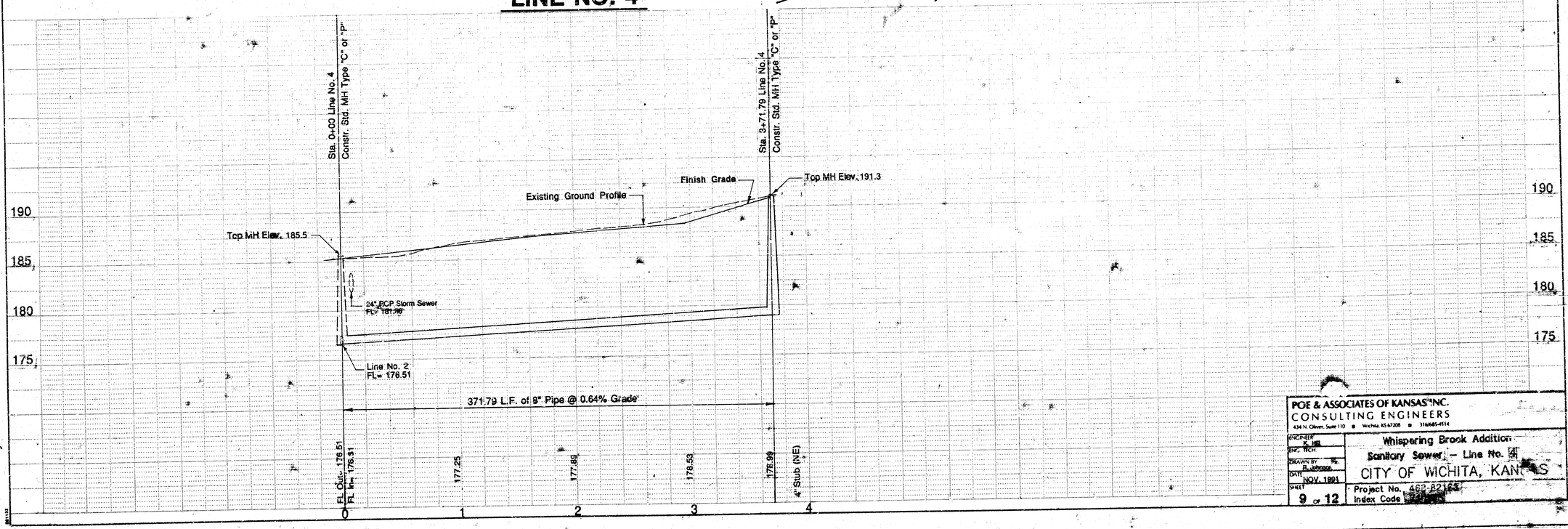
60 0 20 40 60

(IN FEET)

PLAN: 1" = 40'
PROFILE :
HORIZ: 1" = 40'
VERT: 1" = 8'

LINE NO. 4

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — GRADES CHECKED / RT. OF WAY CHECKED / STRUCTURE NO(S) & TYPE(S) / BY / DATE



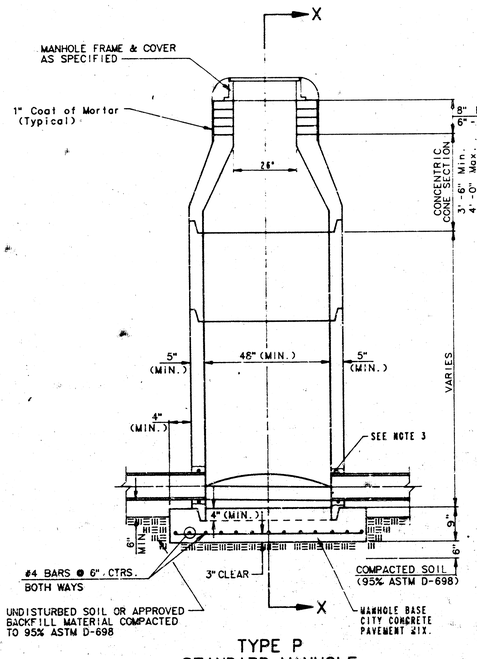
POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER: K. HB
ENG. TECH.:
DRAWN BY: RL
DATE: NOV. 1991
SHEET: 9 OF 12

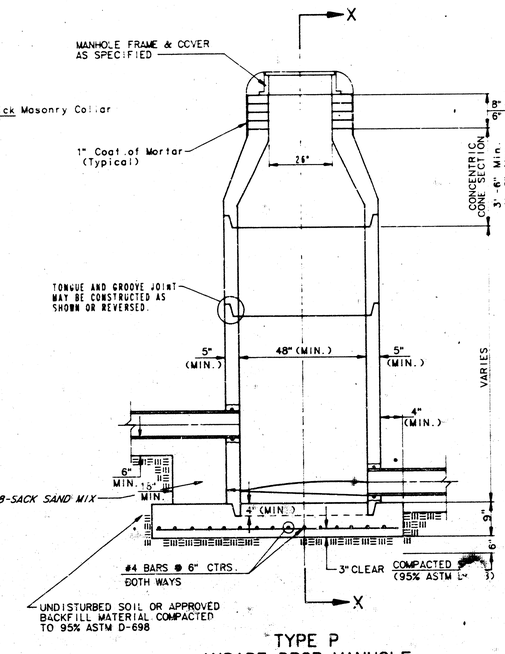
Whispering Brook Addition
Sanitary Sewer – Line No. 4
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code

SEWER APPURTENANCES DETAILS

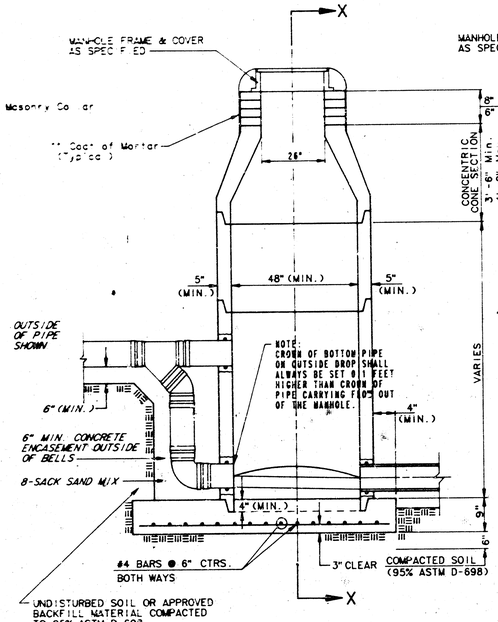
ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA



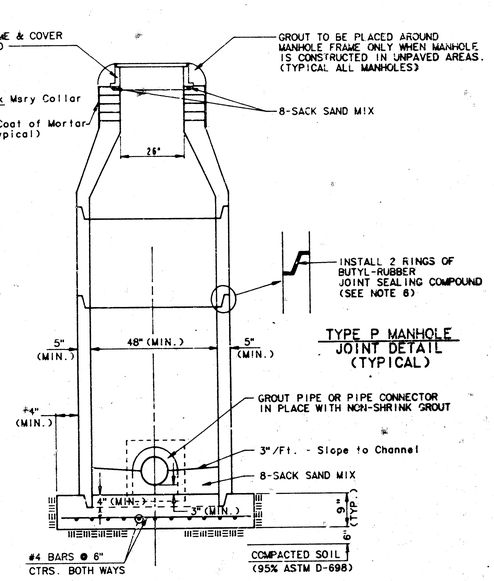
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



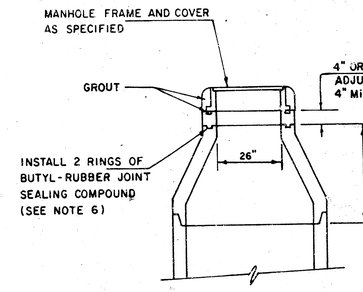
TYPE P MANHOLE
JOINT DETAIL
(TYPICAL)

SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. 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.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TREMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMIRUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. 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.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. THE VERTICAL FREE FALL DROP INSIDE MANHOLES SHALL NOT EXCEED 2'. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. 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.
18. 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.



ALTERNATE CONSTRUCTION
IN UNPAVED AREAS

Whispering Brook Addition
Standard Manhole Type "P"
CITY OF WICHITA, KANSAS
Project No. 465-83183
Index Code 760[illegible]
Sht. 10 of 12

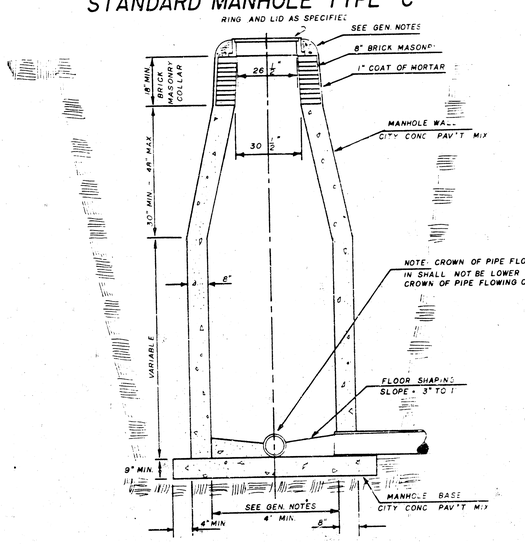
NOTE NO. 16 REVISED JAN. 1991
Revised 3-21-89
Revised 8-10-88
Revised: June 12, 1985

SEWER APPURTENANCES DETAILS

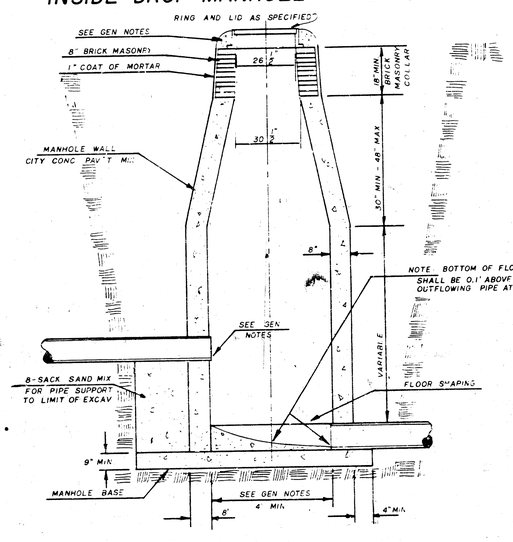
ADOPTED AS STANDARD DESIGN
BY

City of Wichita, Kansas

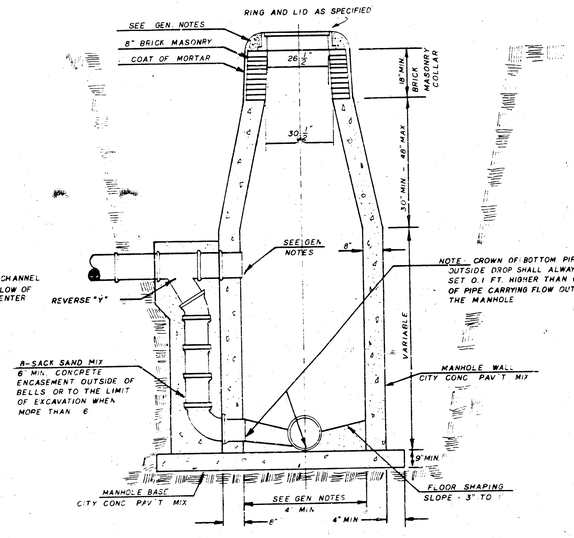
STANDARD MANHOLE TYPE "C"



INSIDE DROP MANHOLE TYPE "C"



OUTSIDE DROP MANHOLE TYPE "C"



GENERAL NOTES:

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 6 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 MAY 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.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASE. REINFORCING STEEL SHALL CONSIST OF No. 4 BARS PLACED 6" ON 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 PAICE BID FOR THE MANHOLE.

3. 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 A APPROVED BITUMINOUS COATING SUCH THE CONNECTION WILL BE TIGHT.

4. 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 MIGHT 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 DRAWING 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. WHERE 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 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 DRAWINGS.

7. THE VERTICAL **FREE FALL DROP INSIDE MANHOLES SHALL NOT EXCEED 2'.**

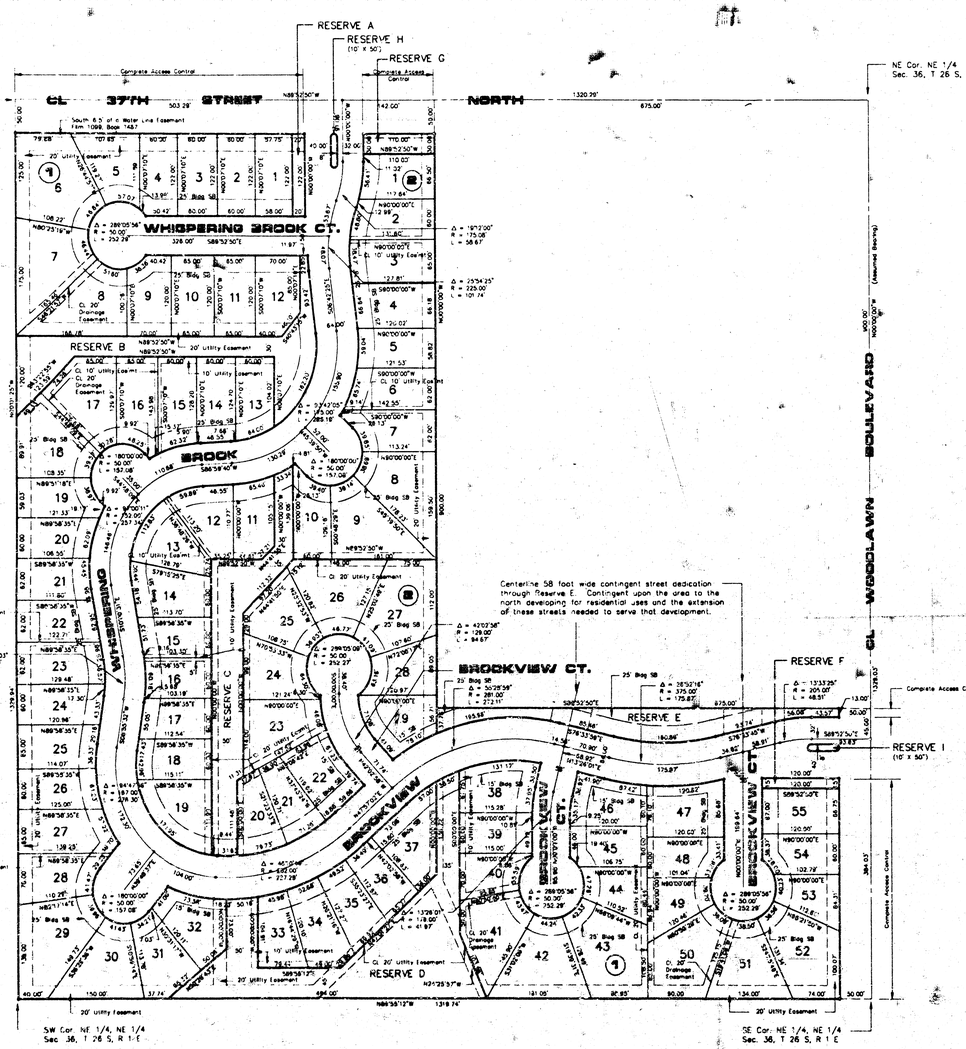
   THE CROWN OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

8. 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.

Whispering Brook Addition
Standard Manhole Type "C"
CITY OF WICHITA, KANSAS
Project No. 468-82163
Index Code 740995
SHEET 11 of 12

NOTE NO. 7 REVISED JAN. 1991

JNL JAN. 1962



Scale 1 = 100'

KNOW ALL MEN BY THESE PRESENTS:

That the State Bank of Colwich holder of a mortgage on the property described in the Land Surveyor's certificate does hereby consent to the plat of Whispering Brook Addition.

STATE BANK OF COLWICH

Chris Anderson, Vice President

STATE OF KANSAS, COUNTY OF SEDGWICK: ss.

This instrument was acknowledged before me on this 2nd day of July 1992, by Chris Anderson, Vice President of the State Bank of Colwich.

Patricia M. Krauss
Notary Public

My appointment expires: 7-21-92

PATRICIA M. KRAUS NOTARY PUBLIC STATE OF KANSAS

STATE OF KANSAS, COUNTY OF SEDGWICK: ss.

I, Kenny E. Hill, being a duly licensed Land Surveyor in said County and State, do hereby certify that I have been in responsible charge of surveying and platting "WHISPERING BROOK ADDITION" to Wichita, Kansas, being described as follows:

The North Half of the East Half of the Northeast Quarter of Section 36, Township 26 South, Range 1 East of the 6th P.M. Sedgwick County, Kansas, except for the North 900.00 feet of the East 675.00 feet thereof, subject to street right-of-way.

The accompanying plat is a true and correct exhibit of property surveyed.

Dated this 28th day of October, 1991.

Kenny E. Hill, L.S.

KENNY E. HILL LICENSED LS-984 KANSAS LAND SURVEYOR

KNOW ALL MEN BY THESE PRESENTS:

That we, the undersigned, have caused the land described in the Surveyor's Certificate to be platted into lots, blocks, streets and reserves. The streets are hereby dedicated to and for the use of the public. A contingent street dedication is hereby granted as indicated. The street dedication is contingent upon the area north of Reserve E developing for residential uses and the extension of these streets across Reserve E being needed to serve that development. Easements are hereby granted as indicated for the construction and maintenance of drainage and utilities. Reserves B, C, D, and E are reserved to permit drainage, drainage structures, ponds, landscaping, sidewalks, gazebos, recreation facilities, utilities confined to easements and utility service connections. Reserves A, F, G, H, and I are reserved to permit landscaping, entry monuments, irrigation, sidewalk and utilities confined to easements. The Reserves are to be owned and maintained by a property owners association consisting of all of the owners of property in this addition. All abutters' rights of access to or from 37th Street North or to or from Woodlawn Boulevard over and across the North line of Block 1, the North line of Reserve A and the North line of Reserve G or the East line of Block 1 and the East line of Reserve E are hereby granted to the appropriate governing body.

Greystone Construction, Inc.

Randy Dean, President

STATE OF KANSAS, COUNTY OF SEDGWICK: ss.

This instrument was acknowledged before me on this 4th day of November, 1991, by Randy Dean, President of Greystone Construction, Inc.

Teri G. Legge
Notary Public

My Appointment Expires: May 25, 1994

This plat of WHISPERING BROOK ADDITION to Wichita, Sedgwick County, Kansas has been submitted to and approved by the WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, Wichita, Kansas.

Dated this 24th day of October, 1991.

WICHITA SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

George A. Sherman, Chairman

Marvin S. Krout, Secretary

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 28 day of January, 1992.

Bob Knight, Mayor

Pat Burnett, Deputy City Clerk

Entered on transfer record this _____ day of _____, 1991.

Don Wright, County Clerk

This is to certify that this instrument was filed for record in the Register of Deeds Office at _____ A.M.-P.M. on the _____ day of _____, 1991.

Pat Kettler, Register of Deeds

Ed Resa, Chief Deputy

WHISPERING BROOK ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

Project No. 468-82168
Index Code 740885

Sheet 12 of 12

18 3 5 3