4MC-041

BUREAU OF PUBLIC SERVICES

SANITARY SEWER EASEMENT

THIS EASEMENT made this 8th day of May, 2001,
by and between Ronald Adamson & Inc.
of the first part and the City of Wichita of the second part.

WITNESSETH: That the said first party, in consideration of the sum of One Dollar ($1.00) and other valuable consideration, the receipt whereof is hereby acknowledged, do hereby grant and convey unto the said second party right-of-way and easement for the purpose of construction and maintenance of sanitary sewer lines along and under the following described real estate situated in Sedgwick, County, Kansas, to wit:

>Beginning at a point 530 feet south and 264 feet east of the northwest 1/4 of Section 3, Township 28 South, Range 2 East of the 6th P.M.; thence north 456.5 feet to the north property line of Lot 1, The Shelling at Cross Creek Addition; thence N 82°30'E along said property line 208.82 feet to a point which is 284 feet east of the west line of Section 3, Township 28 South, Range 2 East of the 6th P.M.; thence south 463.5 feet to the south property line of said lot; thence west 20 feet to the point of beginning.

(Containing 0.21 acres, more or less)

4MC-041
MH #20

IN WITNESS WHEREOF: The said first party has signed these presents the day and year first written.

Ronald R. Dillingham

STATE OF KANSAS)
SEDGWICK COUNTY) SS

Personally appeared before me a notary public in and for the County and State aforesaid

Ronald R. Dillingham

to me personally known to be the same person who executed the foregoing instrument of writing and said person duly acknowledged the execution thereof.

Dated at Wichita, Kansas, this 8 day of May, 2001.

Christine Pracht
Notary Public

CHRISTINE PRACHT
Notary Public - State of Kansas
My Appt. Expires 12-8-04

(My Commission expires 12-8-04)

CONSTRUCTION PLANS FOR

PART 1: MAIN 6A OF THE SPRING CREEK INTERCEPTOR SEWER
PART 2: SLOANS SANITARY SEWER LATERALS
PART 3A/3B: GREENWICH HEIGHTS SANITARY SEWER LATERALS
(PART 3A: LATERALS 1 THRU 12)
(PART 3B: LATERALS 13 THRU 30)

SEPTEMBER, 1993

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
DIRECTOR 10/4/94 DATE

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS
CHAIRMAN 10/5/94 DATE

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK
COUNTY CLERK 10-7-94 DATE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

EPA PROJECT NO. C200691-02

MICHAEL D. SCHOMAKER
LICENSED
6776
KANSAS
PROFESSIONAL ENGINEER

4MC-041 (MH #20)

DRAWING NAME: 34-92238 GNWCH SS TITLE2
LOCATION COORDINATES: LEVEL: DWG.#213
ROTATION ANGLE:
DATE LAST WORKED ON: SEPT.10, 1993 CKD BY: DATE:
SPECIAL INSTRUCTIONS: CKD BY: DATE:
EN-8F2

BUREAU OF PUBLIC SERVICES

SEDGWICK COUNTY KANSAS

CONSTRUCTION PLANS FOR

PART 1: MAIN 6A OF THE SPRING CREEK INTERCEPTOR SEWER

SEPTEMBER, 1993

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP AND PLAT
SHEET NO. 3	BASELINE KEY MAP
SHEET NO. 4	BASELINE CONTROL DATA AND GENERAL NOTES
SHEET NO. 5	PRECAST MANHOLE DETAILS
SHEET NO. 6	CAST-IN-PLACE MANHOLE DETAILS
SHEET NO. 7-12	PLAN/PROFILE
SHEET NO. 13	BACKFILL DETAILS

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
DIRECTOR DATE

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS
CHAIRMAN DATE

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK
COUNTY CLERK DATE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

EPA PROJECT NO. C200691-02

MICHAEL D. SCHOMAKER LICENSED 6776 KANSAS PROFESSIONAL ENGINEER
10/18/93

DRAWING NAME: 34-0223S SPCRK SS TITLE
LOCATION: S-4 DWG.#217
CENTER COORDINATES:
ROTATION ANGLE:
DATE LAST WORKED ON: SEPT.09, 1993 CKD. BY: DATE:
SPECIAL INSTRUCTIONS: CKD. BY: DATE:
EN-RF2

LINE DESIGNATION	STATION TO STATION	MANHOLE	SHEET NO.
MAIN 6A	0+00.00 TO 9+~~81.90~~ 70.01	EX. MH 29 THRU M6A-3	7
MAIN 6A	9+70.01 9+~~81.90~~ TO 20+~~58.60~~ 64.65	M6A-3 THRU M6A-7	8
MAIN 6A	20+64.65 20+~~58.60~~ TO 26+~~70.45~~ 76.58	M6A-7 THRU M6A-9	9
MAIN 6A	26+76.58 26+~~70.45~~ TO 37+~~27.45~~ 31.15	M6A-9 THRU M6A-13	10
MAIN 6A	31+31.15 37+~~27.45~~ TO 45+~~09.05~~ 13.15	M6A-13 THRU M6A-16	11
MAIN 6A	45+13.15 ~~45+09.95~~ TO 54+~~08.28~~ 10.68	M6A-16 THRU M6A-19	12

SEE PART 3A, SHEET 12 thru 15 FOR CONTINUATION OF MAIN 6A

SEE SHEET NO.4 FOR GENERAL NOTES

KELLOGG (U.S. 54)

KANSAS TURNPIKE

EXISTING MH

MAIN NO.7 (FUTURE)

MAIN NO.7 (FUTURE)

WINDSOR PARK LATERAL SEWER DISTRICT (PROJECT NO. 34-81051-19-024)

MAIN NO.5 (FUTURE)

INTERCEPTOR NO. A (EXISTING)

INTERCEPTOR NO. A (EXISTING)

INTERCEPTOR NO. A (EXISTING)

MAIN NO.1 (EXISTING)

EXISTING PARK MEADOW ESTATES LATERAL SEWER DISTRICT

EAST LAYNE LATERAL SEWER DISTRICT (PROJECT NO. 34-81081-19-024)

MAIN NO.5 (FUTURE)

EXISTING SPRINGHOLLOW LATERAL SEWER DISTRICT

HARRY STREET

SLOANS LATERAL SEWER DISTRICT (PROJECT NO. 34-81051-13-024)

MAIN 6A

GREENWICH ROAD

MAIN NO.4 (FUTURE)

MAIN NO.4 (FUTURE)

McEVOY LATERAL SEWER DISTRICT (PROJECT NO. 34-81051-19-024)

143rd ST. EAST

MAIN 6A

SEE PART 3A, SHEETS 12 thru 15, FOR CONTINUATION OF MAIN 6A

GREENWICH HEIGHTS LATERAL SEWER DISTRICT (PROJECT NO. 34-81051-10-024)

1"=500'

LEGEND
- FUTURE INTERCEPTOR
- PROPOSED INTERCEPTOR
- EXISTING SANITARY SEWER
- FUTURE SANITARY SEWER

AERIAL PHOTO PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RECORD DRAWING

MDK PROJ. ENG. 3/12/87 DATE

SUPVS. ENGR. _____ DATE

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

KEY MAP

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK	Job No. 34-85254-1	Sht. 2 of 13
Drawn by	Date Feb. 1986	

PART I

BENCH MARK LIST

BM 6 — 60d STEP IN UTILITY POLE, 50' SOUTH OF SOUTH 1/4 CORNER, SECTION 26, T27S, R2E.
ELEV. = 1318.88 (MSL)

BM 7 — 60d STEP IN UTILITY POLE, 40' SOUTH AND 27' WEST OF SOUTHWEST CORNER, SECTION 26, T27S, R2E.
ELEV. = 1313.82 (MSL)

BM 8 — TOP OF 5/8" REBAR IN FENCE LINE, 75' NORTH OF SOUTH 1/4 CORNER, SECTION 27, T27S, R2E.
ELEV. = 1328.05 (MSL)

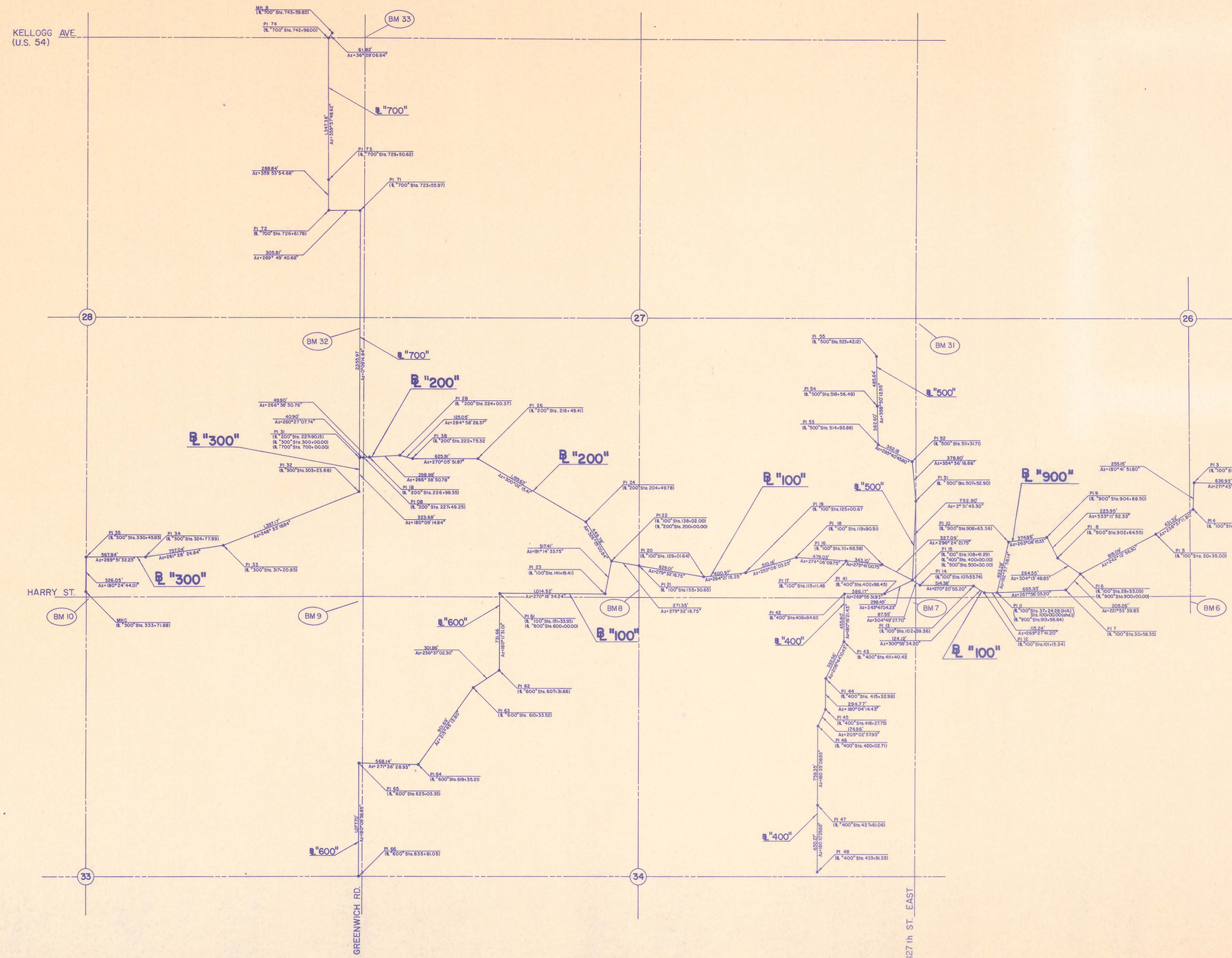
BM 9 — RAILROAD SPIKE IN UTILITY POLE, 48' WEST AND 40' SOUTH OF SOUTHWEST CORNER, SECTION 27, T27S, R2E.
ELEV. = 1344.59 (MSL)

BM 10 — RAILROAD SPIKE IN UTILITY POLE, 39' SOUTH AND 6' EAST OF SOUTH 1/4 CORNER, SECTION 28, T27S, R2E.
ELEV. = 1345.49 (MSL)

BM 31 — RAILROAD SPIKE IN UTILITY POLE, 25' EAST AND 60' SOUTH OF WEST 1/4 CORNER, SECTION 26, T27S, R2E.
ELEV. = 1337.08 (MSL)

BM 32 — 60d NAIL IN UTILITY POLE, 105' SOUTH AND 45' WEST OF WEST 1/4 CORNER, SECTION 27, T27S, R2E.
ELEV. = 1334.62 (MSL)

BM 33 — CHISELED "□" ON TOP CURB, 8' NORTH OF FIRE HYDRANT AT SOUTHWEST CORNER GREENWICH RD AND KELLOGG.
ELEV. = 1350.59 (MSL)



A PORTION OF ℄ "100" AND ALL OF ℄ "600" ARE REQUIRED FOR CONSTRUCTION OF MAIN 6A

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RECORD DRAWING
MDK PROJ. ENG. 7/14/87 DATE
RES. ENG. DATE

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

BASELINE KEY MAP

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK | Job No. 34-85254-1 | Sht. 3 of 13
Drawn by | Date Feb. 1986

PART I

SECTION 26

SOUTH 1/4 CORNER - 10,336.2349 N 18,259.9737 E
3/4" IRON PIPE IN THIMBLE
38.10' N, NAIL AND SHINER IN WEST FACE UTILITY POLE
34.13' S, TOP BOLT IN FIRE HYDRANT
81.64' SW, NAIL AND SHINER IN NORTHWEST FACE FENCE POST
57.86' NE, NAIL AND SHINER IN SOUTHEAST FACE FENCE POST

NORTHWEST CORNER - 15,628.3060 N 15,634.1336 E
1/2" BAR IN THIMBLE
94.34' NNE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
83.36' SSE, NAIL AND SHINER IN WEST FACE UTILITY POLE
83.03' SSW, NAIL AND SHINER IN EAST FACE UTILITY POLE
90.86' W, NAIL AND SHINER IN TOP, EAST GUARDPOST

WEST 1/4 CORNER - 12,977.1932 N 15,624.5911 E
1" IRON PIPE IN ASPHALT
29.24' E, NAIL AND SHINER IN NORTH FACE HEDGE TREE
70.02' SSE, NAIL AND SHINER IN UTILITY POLE
76.04' SSW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
82.67' W, CHISELED "+" IN NORTHEAST CORNER SIDEWALK

SOUTHWEST CORNER - 10,317.9767 N 15,628.8320 E
3/4" IRON PIPE IN THIMBLE
46.61' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
73.84' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
47.93' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
49.20' SW, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE

SECTION 27

NORTHEAST CORNER (SEE NORTHWEST CORNER - SECTION 26)

EAST 1/4 CORNER (SEE WEST 1/4 CORNER - SECTION 26)

SOUTHEAST CORNER (SEE SOUTHWEST CORNER - SECTION 26)

NORTH 1/4 CORNER - 15,628.6745 N 12,984.5036 E
5/8" BAR IN THIMBLE
56.03' NE, NAIL AND SHINER IN WEST GUARDPOST
63.69' SW, NAIL AND SHINER IN GUARDPOST
66.83' NW, NAIL AND SHINER IN GUARDPOST
12.05' S, NORTH EDGE, EASTBOUND LANES KELLOGG AVE.

SOUTH 1/4 CORNER - 10,314.5212 N 12,970.1153 E
1/2" IRON PIPE IN THIMBLE
112.20' SW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
76.65' SE, NAIL AND SHINER IN NORTHEAST FACE FENCE POST
61.72' NE, NAIL AND SHINER IN SOUTHEAST FACE FENCE POST
52.03' NW, NAIL AND SHINER IN SOUTH FACE FENCE POST

NORTHWEST CORNER - 15,635.9061 N 10,334.1155 E
1/2" REBAR IN THIMBLE
101.63' SE, NAIL AND SHINER IN WEST FACE UTILITY POLE
111.73' SW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
90.52' NE, NAIL AND SHINER IN SOUTHEAST FACE COMBINED UTILITY POLE
75.02' NW, CHISELED "+" IN SOUTHEAST CORNER CONCRETE TRAFFIC SIGNAL PAD

WEST 1/4 CORNER - 12,978.4819 N 10,328.5507 E
3/4" IRON PIPE IN THIMBLE
95.53' ESE, NAIL AND SHINER IN NORTH FACE UTILITY POLE
59.80' WSW, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
61.41' NW, NAIL AND SHINER IN NORTHEAST FACE FENCE POST
107.71' SW, NAIL AND SHINER IN TOP FENCE POST.

SOUTHWEST CORNER - 10,324.1876 N 10,320.6729 E
3/4" IRON PIPE IN THIMBLE
63.13' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
63.72' NE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
59.70' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
62.88' SW, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE

SECTION 28

NORTHEAST CORNER (SEE NORTHWEST CORNER SECTION 27)

EAST 1/4 CORNER (SEE WEST 1/4 CORNER SECTION 27)

SOUTHEAST CORNER (SEE SOUTHWEST CORNER SECTION 27)

NORTH 1/4 CORNER - 15,635.0555 N 7,683.9006 E
LEADED TACK IN WESTBOUND LANE KELLOGG AVE.
64.45' NNE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
85.21' SSE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
134.84' SW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE

SOUTH 1/4 CORNER 10,317.3719 N 7,669.7517 E
3/4" IRON PIPE IN THIMBLE
45.97' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
64.95' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
56.19' SW, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
39.79' S, NAIL AND SHINER IN WEST FACE UTILITY POLE

SECTION 33

NORTH 1/4 CORNER (SEE SOUTH 1/4 CORNER SECTION 28)

NORTHEAST CORNER (SEE SOUTHWEST CORNER SECTION 27)

EAST 1/4 CORNER - 7,662.8631 N 10,313.2049 E
3/4" IRON PIPE
38.19' E, NAIL AND SHINER IN NORTHEAST FACE 18" ELM
82.22' SW, NAIL AND SHINER IN SOUTHEAST FACE 30" ELM
29.47' WNW, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE

SECTION 34

NORTHWEST CORNER (SEE SOUTHWEST CORNER SECTION 27)

WEST 1/4 CORNER (SEE EAST 1/4 CORNER SECTION 33)

NORTH 1/4 CORNER (SEE SOUTH 1/4 CORNER SECTION 27)

NORTHEAST CORNER (SEE SOUTHWEST CORNER SECTION 26)

EAST 1/4 CORNER - 7,662.3978 N 15,615.9518 E
1" IRON PIPE
65.79' SE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
79.02' SW, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
84.40' NNW, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
105.20' W, NAIL AND SHINER IN NORTH FACE OSAGE ORANGE TREE

MH A - 11,163.5944 N 19,596.8291 E
EXISTING MANHOLE

PI 1 - 11,247.9073 N 19,271.8997 E
1/2" REBAR
32.38' NE, 1/2" REBAR NEAR CREEK BANK
26.55' SE, 1/2" REBAR AT TOP OF SLOPE
24.73' W, NAIL AND SHINER IN 18" OSAGE ORANGE

PI 2- 11,400.3620 N 18,928.2925 E
1/2" REBAR
35.98' E, NAIL AND SHINER IN 18" HACKBERRY
39.56' S, 1/2" REBAR IN OPEN FIELD
24.29' NW, NAIL AND SHINER IN 24" LOCUST

PI 3 - 11,419.5422 N 18,291.6514 E
1/2" REBAR
44.31' NE, NAIL AND SHINER IN NORTHWEST FACE 18" OSAGE ORANGE
38.58' WSW, NAIL AND SHINER IN NORTHWEST FACE 24" WALNUT
30.67' NW, NAIL AND SHINER IN WEST FACE 30" MULBERRY

PI 4 - 11,164.4111 N 18,288.5443 E
1/2" REBAR
61.11' SW, NAIL AND SHINER IN EAST FACE 18" ELM
26.53' W, NAIL AND SHINER IN NORTH FACE 30" HACKBERRY
30.55' NW, NAIL AND SHINER IN NORTHEAST FACE 18" HACKBERRY

PI 5 - 10,927.1031 N 17,928.3751
1/2" REBAR
55.32' N, NAIL AND SHINER IN EAST FACE 12" WALNUT
34.44' SSE, NAIL AND SHINER IN EAST FACE 18" PINE
69.78' NW, NAIL AND SHINER IN NORTHEAST FACE 18" BOX ELDER

PI 6 - 10,545.7544 N 17,204.6042 E
1/2" REBAR
141.26' SE, NAIL AND SHINER IN SOUTH FACE 24" COTTONWOOD
64.96' SW, NAIL AND SHINER IN EAST FACE 24" LOCUST
67.66' W, NAIL AND SHINER IN NORTH FACE 12" BOX ELDER

PI 7 - 10,392.9637 N 17,067.5398 E
1/2" REBAR
36.78' SE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
70.00' SW, NAIL AND SHINER IN CENTERLINE HARRY AT CENTERLINE DRIVEWAY
52.97' NNW, NAIL AND SHINER IN 18" OSAGE ORANGE

PI 8 - 10,694.5690 N 16,985.8785 E
1/2" REBAR
55.31' W, NAIL AND SHINER IN NORTH FACE 18" OSAGE ORANGE
7.89' SW, NAIL AND SHINER IN NORTH FACE 48" COTTONWOOD
17.44' NE, NAIL AND SHINER NORTHWEST FACE 18" WILLOW

PI 9 - 10,894.4599 N 16,884.8970 E
1/2" REBAR
20.54' SE, NAIL AND SHINER IN NORTH FACE 24" LOCUST
40.52 NW, NAIL AND SHINER IN SOUTH FACE 15" COTTONWOOD

PI 10 - 10,849.6695 N 16,512.7225 E
1/2" REBAR
39.33' SE, NAIL AND SHINER IN WEST FACE 22" HONEY LOCUST
29.73' SW, NAIL AND SHINER IN SOUTHEAST FACE 12" TREE
21.36' NW, NAIL AND SHINER IN SOUTHWEST FACE 30" OSAGE ORANGE'

PI 11 - 10,368.9655 N 16,402.0423 E
1/2" REBAR
51.54' N, 1/2" REBAR, 0.5' WEST OF STEEL FENCE POST
54.76' SE, NAIL AND SHINER IN CENTERLINE HARRY
59.07' SW, NAIL AND SHINER IN CENTERLINE HARRY

PI 12 - 10,367.8823 N 16,286.8074 E
1/2" REBAR
88.28' SW, NAIL AND SHINER IN CENTERLINE HARRY
43.53' S, NAIL AND SHINER IN CENTERLINE HARRY
37.29' W, NAIL AND SHINER IN SOUTH FACE UTILITY POLE

PI 13 - 10,431.7645 N 16,180.3892 E
1/2" REBAR
28.49' ENE, NAIL AND SHINER IN NORTHWEST FACE 7" ELM
43.75' WSW, NAIL AND SHINER IN NORTH FACE 24" COTTONWOOD
43.90 NW, 1/2" REBAR IN CENTERLINE ROW ELMS

PI 14 - 10,434.8947 N 15,666.0188 E
1/2" REBAR
54.97' N, NAIL AND SHINER IN SOUTHWEST FACE FENCE POST
21.08' SE, NAIL AND SHINER IN NORTHEAST FACE 18" ELM
30.53' SW NAIL AND SHINER IN SOUTHEAST FACE, NORTHEAST BRIDGE PILE

PI 15 - 10,484.8912 N 15,594.1484 E
NAIL AND BOTTLECAP
61.44' E, NAIL AND SHINER IN SOUTHWEST FACE FENCE POST
45.48' S, NAIL AND SHINER IN EAST FACE UTILITY POLE
36.91' NNW, 1/2" IRON PIPE, SOUTHEAST CORNER LOT 11, EAST LYNNE ADD.

PI 16 - 10,630.3579 N 15,301.1854 E
NAIL AND BOTTLECAP
26.27' N, 1/2" IRON PIPE, SOUTHEAST CORNER LOT 9, EAST LYNNE ADD.
41.25' SE, NAIL AND SHINER IN SOUTHWEST FACE 18" PINE
26.77' SW, 1/2" REBAR ON TOP SLOPE AT CENTERLINE DRIVEWAY EXTENDED

PI 17 - 10,664.3364 N 14,959.7720 E
NAIL AND BOTTLECAP
31.02' NNE, 1/2" REBAR, SOUTHEAST CORNER, LOT 7, EAST LYNNE ADD.
73.66' SSE, NAIL AND SHINER IN EAST FACE 24" COTTONWOOD
47.33' SW, NAIL AND SHINER IN EAST FACE 18" OSAGE ORANGE

PI 18 - 10,698.6084 N 14,481.9696 E
NAIL AND BOTTLECAP
19.78' NNW, 1/2" IRON PIPE, SOUTHEAST CORNER LOT 5, EAST LYNNE ADD.
61.51' NE, 1/2" REBAR, SOUTHWEST CORNER LOT 6, EAST LYNNE ADD.
59.12' SSE, NAIL AND SHINER IN EAST FACE 10" ELM

PI 19 - 10,550.3115 N 13,993.8392 E
NAIL AND BOTTLECAP
67.24' NNW, NAIL AND SHINER IN WEST FACE 14" PINE
40.12' SE, NAIL AND SHINER IN SOUTHWEST FACE 18" OSAGE ORANGE
28.12' S, NAIL AND SHINER IN WEST FACE 12" OSAGE ORANGE

PI 20 - 10,510.8649 N 13594.8143 E
NAIL AND BOTTLECAP
72.70' SE, NAIL AND SHINER IN SOUTHWEST FACE 24" OSAGE ORANGE
52.54' NNW, NAIL AND SHINER IN EAST FACE 10" PINE
70.55' SW, NAIL AND SHINER IN SOUTHEAST FACE 18" ELM

PI 21 - 10,615.0928 N 12,974.4998 E
1/2" REBAR
28.81' NE, 1/2" REBAR NEAR SOUTHEAST CORNER SMALL PUMP HOUSE
46.38' S, 1/2" REBAR, 2' EAST OF WOOD FENCE POST
36.53' SW, NAIL AND SHINER IN NORTH FACE 14" OSAGE ORANGE

PI 22 - 10,660.0559 N 12,706.9009 E
1/2" REBAR
54.36' NNE, NAIL AND SHINER IN EAST FACE 24" WILLOW
97.98' SE, NAIL AND SHINER IN NORTH FACE 12" OSAGE ORANGE
124.82' W, CHISELED "X" IN TOP SOUTH END CONCRETE WINGWALL TO DAM

PI 23 - 10,348.7370 N 12,645.0169 E
1/2" REBAR
63.79' SE, NAIL AND SHINER IN CENTERLINE HARRY AT CENTERLINE DRIVEWAY TO SOUTH
32.60' S, NAIL AND SHINER IN CENTERLINE HARRY
64.38' SW, NAIL AND SHINER IN CENTERLINE HARRY

PI 24 - 11,034.7564 N 12,458.1097 E
1/2" REBAR
50.12' N, 1/2" REBAR IN OPEN FIELD
58.21' E, 1/2" REBAR IN OPEN FIELD
27.72' SW, NAIL AND SHINER IN SOUTHEAST FACE 12" RUSSIAN OLIVE

PI 26 - 11,635.2508 N 11,419.5980 E
1/2" REBAR
61.92' ENE, 1/2" REBAR AT LOT CORNER IN WINDSOR PARK ADD.
76.46' SSW, NAIL AND SHINER IN EAST FACE 24" COTTONWOOD
33.06' NW, 1/2" REBAR ALONG FENCE LINE

PI 3B - 11,636.3186 N 10,793.6889 E
1/2" REBAR
33.45' N, NAIL AND SHINER IN WEST FACE 18" MAPLE
22.61' NE, NAIL AND SHINER IN NORTHWEST FACE 12" MAPLE
51.46' W, NAIL AND SHINER IN SOUTH FACE FENCE POST

PI 2B - 11,668.6302 N 10,672.8855 E
1/2" REBAR
10.59' S, NAIL AND SHINER IN NORTHEAST FACE 8" OSAGE ORANGE
38.79' NW, NAIL AND SHINER IN NORTH FACE 30" COTTONWOOD
29.31' NNW, NAIL AND SHINER IN EAST FACE 24" COTTONWOOD

PI 1B - 11,651.1459 N 10,374.4172 E
3/4" IRON PIPE IN CONCRETE
1.16' N, SOUTHWEST CORNER STONE COLUMN
5.62' S, 4" STEEL FENCE POST

PI 0B - 11,648.2278 N 10,324.6026 E
NAIL AND BOTTLECAP
103.22' SW, CHISELED "+" IN NORTHEAST CORNER OF WEST CURB TO BRIDGE
48.41' W, NAIL AND SHINER IN SOUTH FACE UTILITY POLE

PI 31 - 11,641.4443 N 10,284.2732 E
1/2" REBAR
98.04' SE, CHISELED "X" IN NORTHEAST CORNER OF WEST CURB TO BRIDGE
13.00' NW, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE

PI 32 - 11,317.7655 N 10,283.4025 E
1/2" REBAR
49.81' NE, NAIL AND SHINER IN CENTERLINE GREENWICH RD.
39.72' E, NAIL AND SHINER IN CENTERLINE GREENWICH RD.
58.85' NW, NAIL AND SHINER IN EAST FACE UTILITY POLE

PI 33 - 10,806.9544 N 8,982.9580 E
1/2" REBAR
56.08' NE, 1/2" REBAR ALONG NORTH-SOUTH BARB WIRE FENCE
55.19' SE, NAIL AND SHINER IN EAST FACE 10" ELM
63.96' W, 1/2" REBAR AT TOE SLOPE TO SEWAGE TREATMENT LAGOON

PI 34 - 10,694.7113 N 8,234.2851 E
1/2" REBAR
32.37' SSW, CENTER KG&E MANHOLE NEAR CORNER SUBSTATION
117.13' WSW, NAIL AND SHINER IN NORTH FACE UTILITY POLE

PI 35 - 10,693.3132 7,666.3469 E
1/2" REBAR
129.20' N, NAIL AND SHINER IN EAST FACE CORNER FENCE POST
21.97' SE, NAIL AND SHINER IN WEST FACE UTILITY POLE
59.37' W, 1/2" REBAR IN OPEN FIELD.

MH C - 10,367.27163 N 7,664.0010 E
EXISTING MANHOLE

PI 41 - 10,352.5838 N 15,326.6268 E
1/2" REBAR
51.45' SE, NAIL AND SHINER IN CENTERLINE HARRY
35.00' S, NAIL AND BOTTLECAP ON SECTION LINE
51.77' SW, NAIL AND SHINER IN CENTERLINE HARRY

PI 42 - 10,352.0819 N 14,940.4571 E
1/2" REBAR
34.99' S, NAIL AND BOTTLECAP ON SECTION LINE

PI 43 - 9,896.2871 N 14,938.2884 E
1/2" REBAR
25.17' E, 1/2" IRON PIPE AT SOUTHWEST CORNER LOT 3, MCEVOY ADD.
35.24' WNW, 1/2" PINCHED PIPE AT SOUTHEAST CORNER LOT 1, MCEVOY ADD.
51.58' NNW, CHISELED "+" IN SOUTHEAST CORNER SIDEWALK AROUND WALNUT TREE

PI 44 - 9,545.6968 N 14,761.6820 E
1/2" REBAR
64.17' NNE, 3/4" IRON PIPE AT SOUTHEAST CORNER LOT 2, MCEVOY ADD.
9.90' WNW, NAIL IN NORTH FACE UTILITY POLE
65.64' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE

PI 45 - 9,250.9270 N 14,761.3184 E
1/2" REBAR
72.94' NE, NAIL AND SHINER IN SOUTH FACE 18" WILLOW
37.83' S, NAIL AND SHINER IN WEST FACE UTILITY POLE
31.45' NW, NAIL AND SHINER IN SOUTHWEST FACE 10" ELM

PI 46 - 9,092.4233 N 14,687.2403 E
1/2" REBAR
50.32' N, NAIL AND SHINER IN 10" HACKBERRY
6.93' E, NAIL AND SHINER IN NORTH FACE UTILITY POLE
2.00' S, EAST-WEST, 4' WOVEN WIRE FENCE

PI 47 - 8,334.0936 N 14,681.6927 E
1/2" REBAR
127.35' NNE, NAIL AND SHINER IN WEST FACE UTILITY POLE
61.79' SW, 1/2" REBAR NEAR SOUTHEAST CORNER UTILITY SHED
109.67' NW, NAIL AND SHINER IN SOUTHWEST FACE 18" OSAGE ORANGE

PI 48 - 7,703.8265 N 14,679.7680 E
1/2" REBAR
38.55' NE, NAIL AND SHINER IN EAST FACE UTILITY POLE
71.91' SW, CHISELED "+" IN TOP SOUTH END OF EASTERLY 36" RCP
60.92' NW, NAIL AND SHINER IN NORTH FACE 8" COTTONWOOD

PI 51 - 11,237.0615 N 15,627.3663 E
NAIL AND BOTTLE CAP
104.13' NNE, NAIL AND SHINER IN WEST FACE UTILITY POLE
43.19' SE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
36.47' SW, NAIL AND SHINER IN SOUTHEAST FACE 12" ELM

PI 52 - 11,614.1832 N 15,591.7485 E
1/2" REBAR
27.23' S, NAIL AND SHINER IN EAST FACE 14" HACKBERRY
43.24' W, NAIL AND SHINER IN NORTH FACE 12" ELM
26.99' NNW, NAIL AND SHINER IN SOUTHWEST FACE 24" OSAGE ORANGE

PI 53 - 11,771.1285 N 15,265.3400 E
1/2" IRON PIPE
23.85' N, NAIL AND SHINER IN WEST FACE 12" ELM
25.57' E, NAIL AND SHINER IN NORTHWEST FACE 12" ELM
23.00 S, NAIL AND SHINER IN WEST FACE 24" MULBERRY

PI 54 - 12,133.6538 N 15,257.9792 E
1/2" REBAR
51.05' NE, 1/2" REBAR NEAR SOUTHWEST CORNER METAL SHED
25.49' SE, NAIL IN SOUTHWEST CORNER UTILITY SHED

PI 55 - 12,619.1937 N 15,248.1207 E
97.27' NE, CHISELED "+" IN SOUTHWEST CORNER STAIR FOOTING
29.61' SE, NAIL AND SHINER IN NORTH FACE 24" ELM
50.77 WNW, CENTER SOUTHWEST POST TO BACKSTOP

PI 61 - 10,354.2173 N 11,630.5117 E
1/2" REBAR
80.33' SE, NAIL AND SHINER IN WEST FACE UTILITY POLE
34.83' S, NAIL IN CENTERLINE HARRY
93.48' SW, NAIL AND SHINER IN CENTERLINE HARRY

PI 62 - 9,622.5614 N 11,628.0606 E
1/2" REBAR
16.41' NE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
43.09' SE, 1/2" REBAR ALONG FENCE LINE
15.88' NW, 1/2" IRON PIPE AT SOUTHEAST CORNER LOT IN SLOANS ADD.

PI 63 - 9,456.4694 N 11,376.0032 E
1/2" REBAR
121.55' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
28.31' ESE, NAIL AND SHINER IN SOUTHWEST FACE 12" WILLOW
65.02' W, 1/2" REBAR IN OPEN FIELD

PI 64 - 8,724.7140 N 10,849.1457 E
1/2" REBAR
52.94' E, 1/2" REBAR IN OPEN FIELD
157.63' SSE, NAIL AND SHINER IN WEST FACE 14" ELM
49.95' NW, 1/2" REBAR IN OPEN FIELD

PI 65 - 8,740.6570 N 10,281.2295 E
1/2" REBAR
54.62' NE, NAIL AND SHINER IN CENTERLINE GREENWICH RD.
35.02' E, NAIL IN CENTERLINE GREENWICH RD.
57.31' SE, NAIL AND SHINER IN CENTERLINE GREENWICH RD.

PI 66 - 7,662.9613 N 10,278.2051 E
TACKED HUB
64.83' SSW, NAIL AND SHINER IN SOUTHEAST FACE 36" ELM
14.94' W, NAIL AND SHINER IN SOUTH FACE FENCE POST

PI 71 - 13,997.4058 N 10,290.6106 E
1/2" REBAR
79.25' E, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
56.81' SE, NAIL AND SHINER IN CENTERLINE GREENWICH ROAD
13.71' NNW, NAIL AND SHINER IN NORTHEAST FACE CORNER FENCE POST

PI 72 - 13,996.4876 N 9,984.8020 E

PI 73 - 14,285.3271 N 9,984.2904 E
1/2" REBAR
25.18' SE, CHISELED "+" IN TOP EAST WINGWALL TO BOX CULVERT
22.41' SW, CHISELED "+" IN TOP WEST WINGWALL TO BOX CULVERT
28.96' WNW, NAIL IN SOUTH FACE UTILITY POLE

PI 74 - 15,632.7069 N 9,983.4322 E
NAIL AND BOTTLECAP
88.97' NE, METAL SCREW ON SOUTHWEST CORNER LIGHT POLE
123.61' W, CHISELED "+" IN SOUTHEAST CORNER CONCRETE STORM DRAIN PAD
48.54' NW, NAIL AND BOTTLECAP IN TOP GUARD POST

MH B - 15,682.4108 N 10,020.1913 E
EXISTING MANHOLE

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE USGS DATUM.

2. AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 687-2470 TO REQUEST THAT ANY EXISTING BURIED UTILITIES WITHIN THE PROJECT AREA BE FLAGGED.

3. THE BURIED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

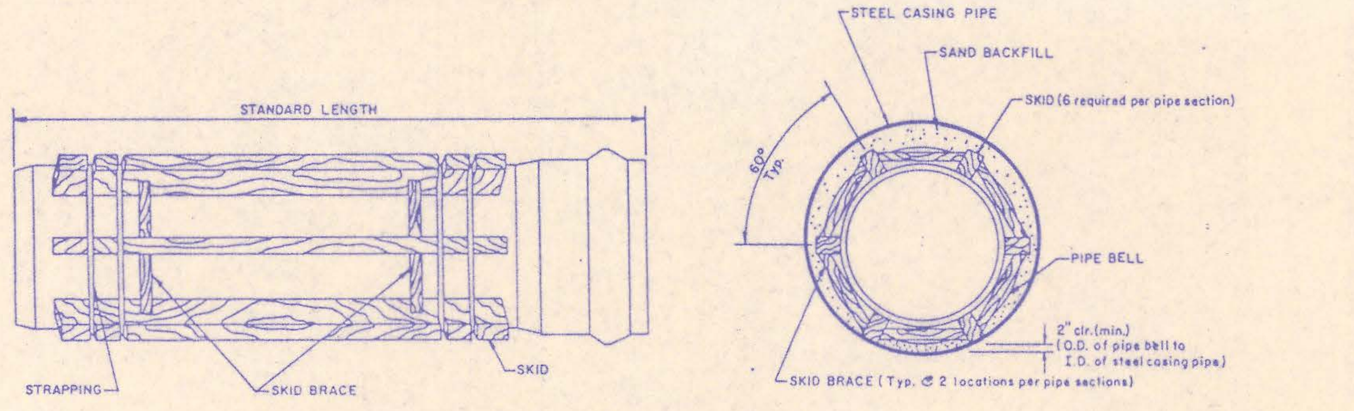
4. AT LEAST 24 HOURS BEFORE CONNECTING NEW SEWER PIPE TO THE EXISTING SEWAGE SYSTEM, THE CONTRACTOR SHALL CONTACT THE SEDGWICK COUNTY EASTERN SEWER DISTRICT (733-0202). THE CONTRACTOR SHALL KEEP ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION. TO PREVENT WATER OR DEBRIS FROM ENTERING THE EXISTING SEWER, A MECHANICAL PLUG SHALL BE INSTALLED AND MAINTAINED TO ISOLATE THE EXISTING SEWER FROM THE NEW CONSTRUCTION UNTIL THE NEW CONSTRUCTION IS CLEANED, TELEVISED, AND HAS BEEN ACCEPTED. THE WATER USED FOR CLEANING SHALL NOT BE ADDED TO THE FLOW OF THE EXISTING SEWER. THE CLEANING OR OTHERWISE ACCUMULATED WATER SHALL BE PUMPED OR OTHERWISE REMOVED PRIOR TO TELEVISING.

5. ALL PIPE JOINTS SHALL BE LAID AND PUSHED 'FULL HOME', WITH THE BEVELED END OF THE SPIGOT MAKING FULL CONTACT WITH THE CHAMFERED AREA AT THE THROAT OF THE BELL OR SOCKET, WITH NO SEPARATION BETWEEN THEM. IF SEPARATION IS DETERMINED, THE PIPE SHALL BE EXCAVATED AND RELAYED ACCORDING TO SPECIFICATIONS AT THE CONTRACTORS EXPENSE.

6. EXCESS EXCAVATED MATERIAL AND OTHER DEBRIS SHALL BE WASTED ON SITES TO BE PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

7. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT EXISTING ROADWAYS AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY AS DIRECTED IN THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS, AND VERIFY THESE IN THE FIELD IN THE PRESENCE OF THE ENGINEER AND THE CONTRACTOR'S SURVEYOR. AFTER CONSTRUCTION AND BEFORE THE FINAL INSPECTION, A LETTER SIGNED AND SEALED BY THE LICENSED LAND SURVEYOR CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.



STEEL ENCASEMENT DETAIL

(PIPE GREATER THAN 12")

GRASS PLANTING

THE CONTRACTOR SHALL PLANT GRASS ON ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NEITHER PART OF PAVED OR UNPAVED ROADS OR DRIVES NOR AREAS OCCUPIED BY SIDEWALKS, STRUCTURES, GARDENS, OR CULTIVATED CROPS. SURFACES SHALL BE PREPARED, FERTILIZED, AND PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AT THE APPLICATION RATES GIVEN BELOW. THE COST FOR SEEDING, SPRIGGING, AND SODDING SHALL BE SUBSIDIARY TO THE PRICE BID FOR "SITE CLEARING AND RESTORATION".

ROAD RIGHTS-OF-WAY AND OTHER PUBLICLY OWNED AREAS SHALL BE SEEDED AS DIRECTED BELOW UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TEMPORARY SEED AND MULCH AREAS THAT ARE SUSCEPTIBLE TO EROSION AND AREAS THAT WILL NOT BE PERMANENTLY SEEDED WITHIN A 2 MONTH PERIOD, AS DIRECTED BY THE ENGINEER. ALL AREAS TO BE SEEDED SHALL BE PROVIDED WITH TOP SOIL SUFFICIENT TO PROVIDE SUBSTANTIAL GROWTH.

APPLICATION RATES:

1. SEED: K-31 FESCUE @ 8 LBS PER 1,000 SQUARE FEET
2. MULCH (IF REQUIRED): 90 LBS PER 1,000 S.F.
3. FERTILIZER: NITROGEN @ 1 LB PER 1,000 S.F.
PHOSPHOROUS @ 2 LBS PER 1,000 S.F.
POTASSIUM @ 1 LB PER 1,000 S.F.

GRASS ON PRIVATELY-OWNED AREAS (INCLUDING TEMPORARY AND PERMANENT EASEMENTS) SHALL BE REPLACED IN KIND IN ACCORDANCE WITH THE INFORMATION GIVEN BELOW OR AS DIRECTED BY THE ENGINEER.

TYPE OF GRASS	PLANTING TIME	SEEDING APPLICATION	FERTILIZER*
BLUEGRASS (WINDSOR KENTUCKY, ETC.)	FALL	3 LBS/1,000 S.F.	8 LBS/1,000 S.F.*
TALL FESCUE (K-31)	SPRING AND FALL	8 LBS/A,000 S.F.	8 LBS/1,000 S.F*
BERMUDA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F*
ZOYSIA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.*

*FERTILIZER APPLICATION RATES ARE BASED ON ACTUAL LBS OF PHOSPHOROUS APPLIED PER 1,000 S.F. FERTILIZER SHALL BE 12-24-12 OR OTHER HIGH PHOSPHOROUS TYPE AS APPROVED BY THE ENGINEER. (EXAMPLE: TO APPLY 2 LBS OF PHOSPHOROUS USING A 12-24-12 FERTILIZER, 8 LBS OF FERTILIZER WOULD BE REQUIRED.)

9. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".

10. EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.

11. POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAS SHALL BE MAINTAINED.

12. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.

13. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.

14. ALL TRENCH BACKFILL SHALL BE EITHER TYPE I OR TYPE III UNLESS NOTED OTHERWISE.

15. THE CONTRACTOR SHALL ALSO CONTACT THE FOLLOWING AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ADVISE THEM OF THE INTENDED WORK AND OF HIS PROPOSED SCHEDULE:

SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
1250 S. SENECA
WICHITA, KS 67213
MR. JIM WEBER
(316) 383-7901

BUTLER RURAL ELECTRIC
216 S. VINE
P.O. BOX 1242
EL DORADO, KS 67042
MR. GARY DICK, LINE SUPERINTENDENT
(316)265-5002

16. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS 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 LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR THE DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH THE PROPOSED CONSTRUCTION.

17. THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE HE SHALL COORDINATE SUCH WORK WITH THE ENGINEER. TREE REMOVAL OR TRIMMING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".

18. WHERE INDICATED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE REMOVING, RESETTING, OR TYING BACK UTILITY POLES WITH THE UTILITY COMPANY. THE CONTRACTOR MAY USE OSHA APPROVED SHORING TO PREVENT REMOVAL AND RESETTING POLES WHERE ADEQUATE SPACE IS AVAILABLE BETWEEN THE PROPOSED SANITARY SEWER AND THE EXISTING UTILITY POLES. ALL COSTS INCURRED FOR THIS WORK, INCLUDING ANY FEES CHARGED BY THE UTILITY COMPANY, SHALL BE PAID BY THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".

19. PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH THE PROPOSED WORK. THE CONTRACTOR SHALL REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER PRIOR TO THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH THE PROPOSED WORK SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".

20. UNLESS NOTED OTHERWISE, ALL 4" PIPE SHALL TERMINATE WITH A PLAIN END AND SHALL BE SEALED WITH A GASKETED COMPRESSION TYPE CAP SPECIFICALLY MADE FOR THE PIPE BEING INSTALLED. CAPS MAY BE TAPED ON, BUT SHALL NOT BE GLUED OR CEMENTED TO THE PIPE. LOCATION OF ENDS OF 4" PIPE SHALL BE MARKED BY FASTENING 2-INCH WIDE METALLIC DETECTABLE TAPE TO THE END OF THE 4" PIPE THEN WRAPPED OR OTHERWISE FASTENED AT 3-FOOT INTERVALS TO 1" O.D. PVC PLASTIC PIPE EXTENDING FROM THE 4" PIPE TO THE GROUND SURFACE SUCH THAT THE TAPE IS VISIBLE WHEN THE PROJECT IS COMPLETED. METALLIC DETECTABLE TAPE SHALL BE "MagnaTec" AS MANUFACTURED BY THOR ENTERPRISES, INC., WATERLOO, WISCONSIN OR "LINEGUARD TYPE III" AS MANUFACTURED BY LINEGUARD, INC., CHICAGO, ILLINOIS OR AN APPROVED EQUAL.

21. PAVEMENT AND OTHER TRAVELWAYS DAMAGED BY THE CONTRACTOR'S OPERATIONS, INCLUDING TRAFFIC FOR MATERIAL DELIVERY AND REMOVAL, OUTSIDE OF THE PAYMENT LIMITS FOR REMOVAL AND REPLACEMENT SHALL BE REPLACED OR REPAIRED IN KIND, BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

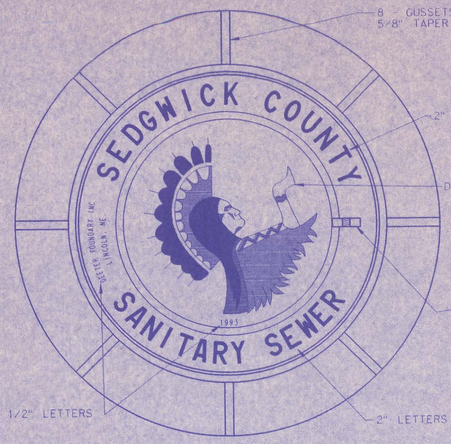
BASELINE CONTROL DATA AND GENERAL NOTES

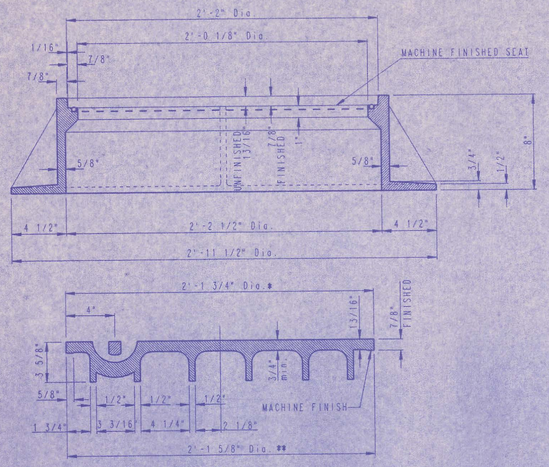
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK | Job No. 34-85254-1 | Sht. 4 of 13
Drawn by | Date Feb. 1986

PART I





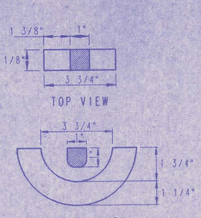
*OUTSIDE DIA. TOP OF COVER
**OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME AND COVER

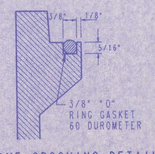
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

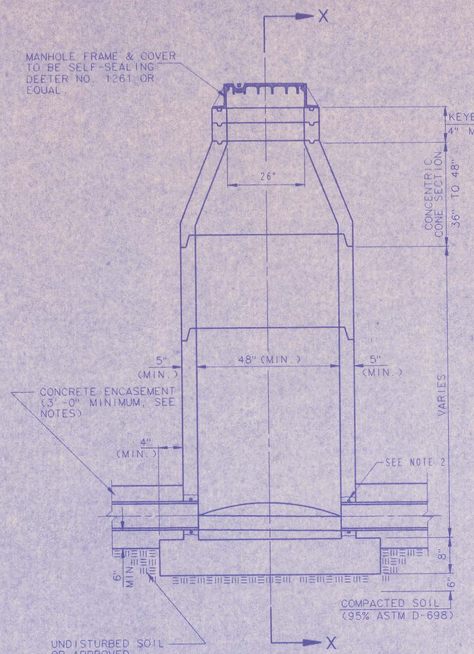
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
2. CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS AND ALL BURRS SHALL BE GROUND SMOOTH. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY ± 1/16" PER FOOT.
3. NO OTHER LETTERING OR MARKINGS OTHER THAN THOSE DETAILED ON PLAN WILL BE PERMITTED ON CASTINGS.
4. CASTINGS MUST BE DOMESTICALLY MANUFACTURED IN THE UNITED STATES OF AMERICA.
5. THE FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
6. MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY INC., NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS.(MINIMUM WT.=430 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
7. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
8. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED CONTINUOUS "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL BE FACTORY INSTALLED IN THE MANHOLE FRAME WITH 100% SILICON SEALANT-DOW CORNING OR EQUAL.



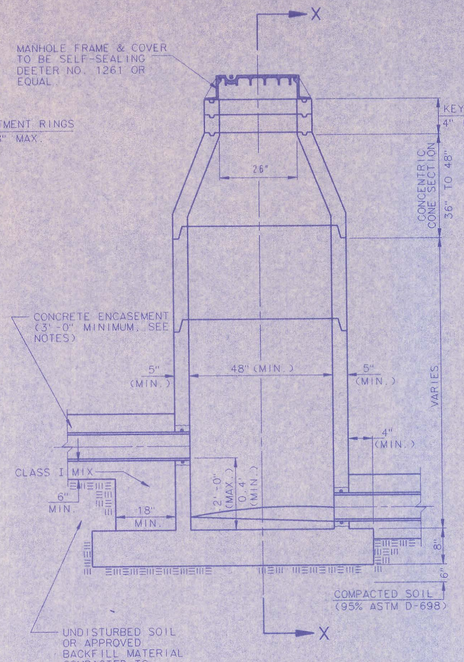
PICK HOLE DETAIL



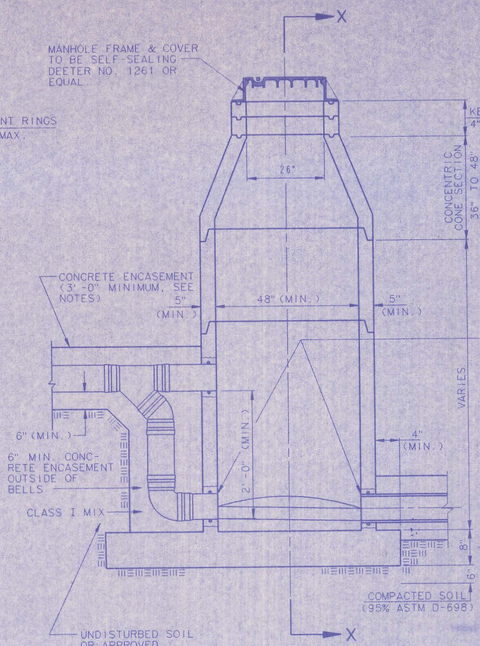
FRAME GROOVING DETAIL
(TYPICAL ALL MANHOLES)



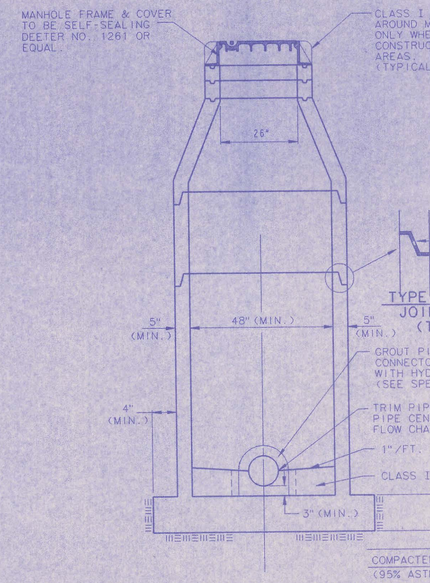
PRECAST
STANDARD MANHOLE
TYPE "A"



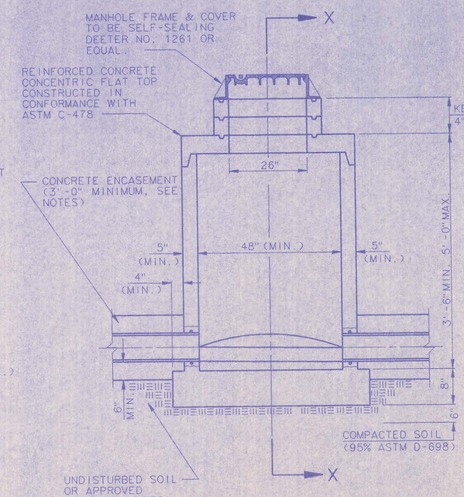
PRECAST
INSIDE DROP MANHOLE
TYPE "B"



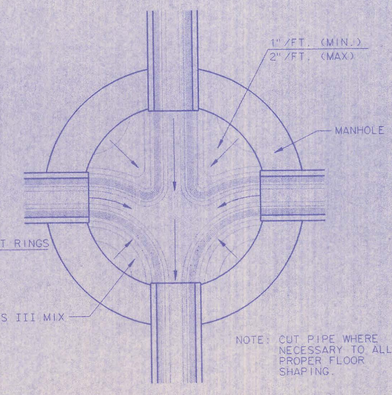
PRECAST
OUTSIDE DROP MANHOLE
TYPE "C"



SECTION X
(TYPICAL)



PRECAST
SHALLOW MANHOLE
TYPE "D"



TYPICAL MANHOLE
FLOOR SHAPING

PRECAST MANHOLE NOTES

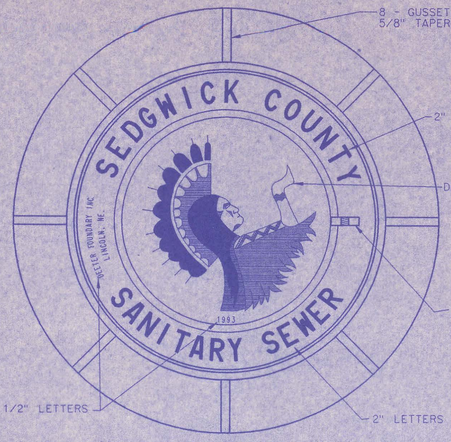
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL OVEREXCAVATE TO A SUITABLE SUBGRADE CONDITION AND CRUSHED ROCK SHALL BE PLACED AND COMPACTED TO THE REQUIRED GRADE.
2. "ALOK" OR APPROVED EQUAL FLEXIBLE WATER-STOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL. SEWER PIPES EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CLASS I CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
3. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
4. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
5. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
6. 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.
7. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5' INSIDE DIAMETER (MIN.).
8. INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.
9. MANHOLES SHALL BE SUPPLIED WITH PRECAST MONOLITHICALLY CAST BASE SECTIONS UNLESS OTHERWISE APPROVED. ALL PRECAST CONCRETE MANHOLE SECTIONS AND BASES SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS.
10. WHERE MANHOLE STUBS ARE SHOWN ON THE PLANS, THE STUB SHALL EXTEND AT LEAST 5 FEET FROM THE INSIDE WALL OF THE MANHOLE WITH A MINIMUM OF 3 FEET OF CONCRETE ENCASEMENT. THE CONTRACTOR SHALL PREVENT ANY CONCRETE FROM BEING WITHIN 1 FOOT OF THE END OF THE STUB.
    4" STUBS SHALL BE SET AT 2.0% GRADE.
    6" STUBS SHALL BE SET AT 1.0% GRADE.
11. MANHOLE SECTIONS SHALL BE SUPPLIED WITH RECESSED LIFTING EYES. LIFTING EYE RECESSES SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.

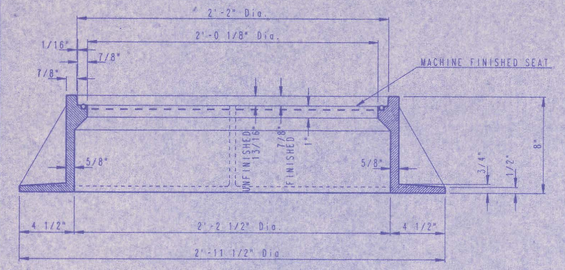
No.	Revision	By	Date
4	Precast Bases, Precast Manhole Notes, Manhole Frame and Cover Notes, Keyed Adjustment Rings, and Class I mix of concrete encasement and field cap.	RJ	8/27/93
3	All Manholes self-sealing/MH Cover	RJ	1/25/93
2	Modified pipe connection note	RJ	6/01/92
1	Manhole Frame and Cover Note 1	RJ	7/16/91

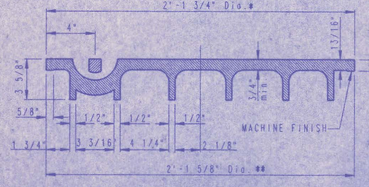
PRECAST
MANHOLE DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER







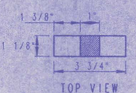
*OUTSIDE DIA. TOP OF COVER
**OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME AND COVER

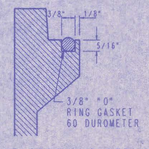
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

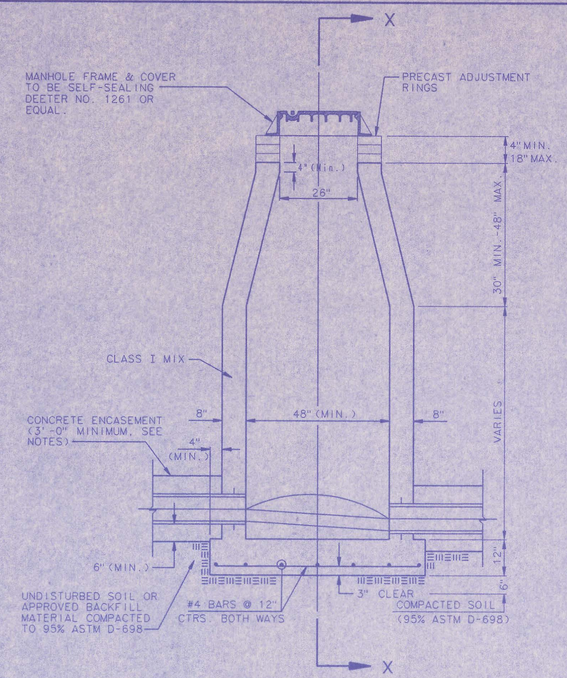
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
2. CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY ± 1/16" PER FOOT.
3. NO OTHER LETTERING OR MARKINGS OTHER THAN THOSE DETAILED ON PLAN WILL BE PERMITTED ON CASTINGS.
4. CASTINGS MUST BE DOMESTICALLY MANUFACTURED IN THE UNITED STATES OF AMERICA.
5. THE FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
6. MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY INC., NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. =430 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
7. GRIND ALL BURRS SMOOTH. CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
8. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
9. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER.



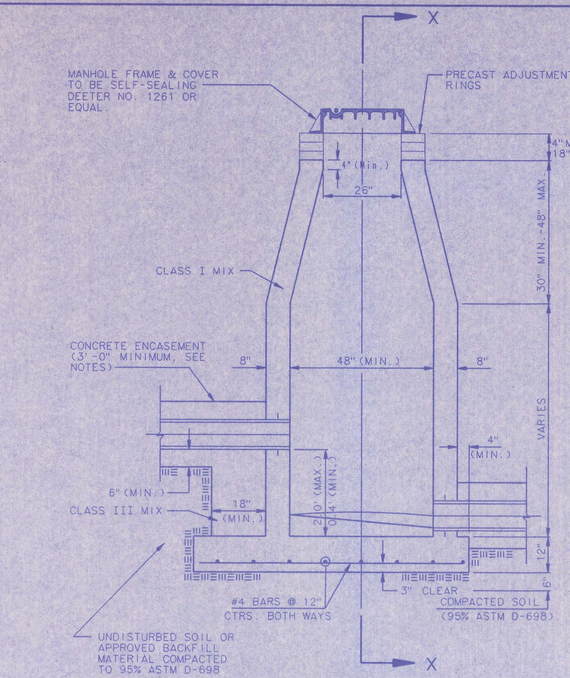
PICK HOLE DETAIL



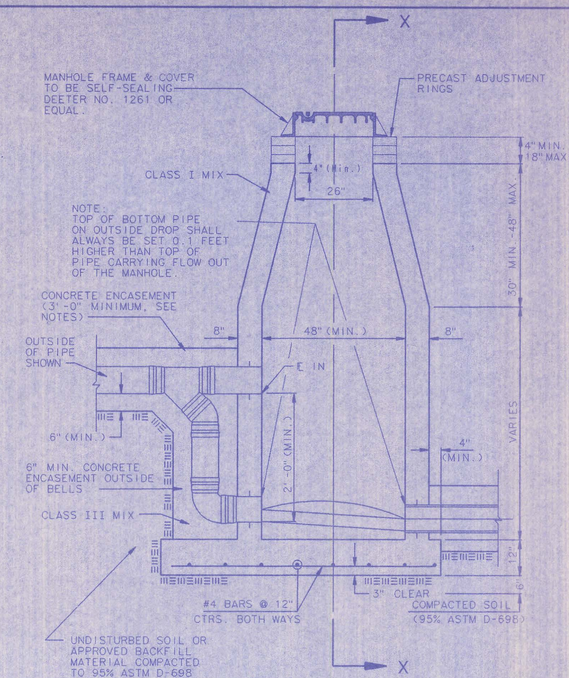
FRAME GROOVING DETAIL
(TYPICAL ALL MANHOLES)



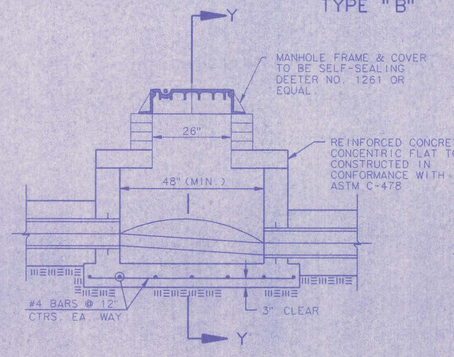
CAST IN PLACE
STANDARD MANHOLE
TYPE "A"



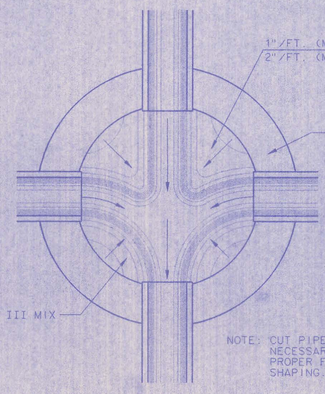
CAST IN PLACE
DROP MANHOLE
TYPE "B"



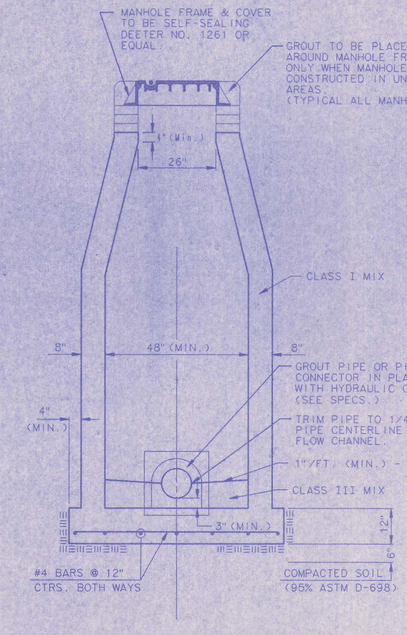
CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "C"



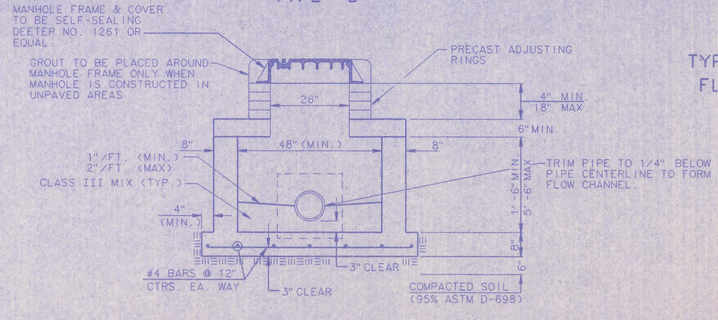
SHALLOW MANHOLE
TYPE "D"



TYPICAL MANHOLE
FLOOR SHAPING



SECTION X
(TYPICAL)



SECTION Y

CAST-IN-PLACE MANHOLE NOTES


1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. WHEN OPENINGS ARE CUT IN MANHOLE WALLS FOR PIPE, THE PIPE OR PIPE CONNECTOR SHALL BE GROUTED IN PLACE WITH HYDRAULIC CEMENT. EXTERIOR OF COMPLETED CONNECTION SHALL BE SEALED WITH APPROVED COATINGS.
4. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATIONS WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
5. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN ABS COMPOSITE PIPE OR PVC PIPE IS USED. FOR OTHER TYPES OF PIPE, THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
6. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING OR BRICK MASONRY COLLAR AND THE MANHOLE FRAME.
7. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
8. CONCRETE FOR MANHOLE BASES SHALL BE CLASS "A" AS DESCRIBED IN THE SPECIFICATIONS.
9. MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5" INSIDE DIAMETER.


No.	Revision	By	Date
3	All Manholes Self-sealing/ MH Cover	RJ	1/25/93
2	Modified Pipe connection note and MH Note 3	RJ	6/1/92
1	Manhole Frame and Cover Note 1	RJ	7/16/91

CAST-IN-PLACE MANHOLE DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

Sht. 6 of 13 PART I





No.	Revision	By	Date
1	Updated per PEC Proj. No. 34-91080	RJ	4/91

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK
Drawn by TC, GM
Job No. 34-8105/-3
Date Nov. 1982


SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MAIN 6A

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

Sht. 7 of 13

PART I



No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK — Job No. 34-81051-3
Drawn by TC, GM — Date Nov. 1982


SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MAIN 6A

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

Sht. 8 of 13

PART I



Sta. 20+58.60 64.64
MGA-7
Sta. 23+21.95 27.46
Const. MGA-8
Type A
Sta. 26+70.45 76.58
Const. MGA-9
Type C
P.I. 63
610
609
Baseline "600"
608
P.I. 62
DELLROSE CHURCH
OF CHRIST ADDITION
30' Temp. Const. Esmt.
20' San. Sew. Esmt.
MAIN 6A
Buried Telephone (SWB)
8' Easement
30' Temp. Const. Esm't.
20' San. Sew. Esm't.
Prop. Sketch Plat
30' Temp. Const. Esm't.
10' San. Sew. Esm't.
10' Utility Esm't.
Lateral No. 1 Sloans
Lat. Sewer District
See Part 2
40' Temp. Const. Esm't.
D.M.
P.P.
ELLSON AVE.
SLOANS
ADDITION
DOWELL AVE
28
27
26
25
24
23
4" Trees
Water Spigot
10" Cedar
Blue Ash
Brush Pile
Hedge Bushes
Pine
8" Evergreen
10" Mulberry
Evergreen
Water Spigot
Redbud
Saplings
Bush
8" Sycamore
6" Evergreen
Evergreens
7" Pine
Tele. Box
Portable Dog Pen
Tele. Box
6" Cherry
Sapling
6' Wood Fc.
12" Mulberry
8" Evergreens
6" Cherry
13' Pine
Bushes
4" Evergreen
P.P.
4' Gate Post
4' Gate Post
3½' Ch. Lk. Fc.
6" Hackberry
262.83
Install 263.35 L.F.
15" Pipe
349.12
Install 348.50 L.F.
15" Pipe
℄ "600" Sta. 607+31.61
10.00' Left
℄ "600" Sta. 607+31.53
253.35' Right
℄ "600" Sta. 611+01.29
382.23' Right
Remove and Reset
fence as required
ALL PIPE INSTALLED
IS PVC PIPE.
BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.
SCALE:
PLAN 1"=40'
PROFILE:
HORIZ. 1"=40'
VERT. 1"=5'
RECORD DRAWING
MDK PROJ. ENG. 7/12/97 DATE
GEN. ENG. DATE
MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE
PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.s NOTED
STRUCTURE NOTAT'NS CH'KD
1350
1345
1340
1335
1330
1325
1320
1315
1310
MGA-7
Top Elev. = 1328.0 .38
I.E. OUT = 1317.29
I.E. IN = 1319.29 .18
MGA-8
Top Elev. = 1331.6 32.11
I.E. = 1319.82 .72
I.E. IN = 1319.77
MGA-9
Top Elev. = 1338.5 .81
I.E. IN = 1329.35 .23
from 8" Lateral (W)
(See Part 2)
I.E. IN = 1320.59
from 15" PVC Pipe (S)
I.E. OUT = 1320.51 .47
I.E. IN = 1320.71 .61
Existing Ground
262.83
263.35 L.F. 15" Pipe
@ 0.20%
349.12
348.50 L.F. 15" Pipe
@ 0.20%
21+00
22+00
23+00
24+00
25+00
26+00
PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
525448
1 Update per PEC Proj. No. 34-91080 RJ 4/91
No. Revision By Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
MAIN 6A
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-91080
Date April, 1991
Designed by MDS, MDK
Drawn by GM
Sht. 9 of 13
PART I

Sta. 26+~~70.45~~ MGA-9 — 76.58

Sta. 28+~~60.45~~ Const. MGA-10 Type A — 65.42

Sta. 31+~~40.45~~ Const. MGA-11 Type A — 43.29

Sta. 34+~~33.95~~ Const. MGA-12 Type A — 38.13

Sta. 37+~~27.45~~ Const. MGA-13 Type A — 31.75

SLOAN'S ADDITION

DOWELL AVENUE

25

24

23

Baseline "600"

G13 G14 G15+00 G16 G17 G18 G19 PT G4

30' Temp. Const. Esm't.

20' San. Sew. Esm't.

MAIN 6A

Proposed Sketch Plat (By Others)

30' Temp. Const. Esm't.

20' San. Sew. Esm't.

10' San. Sew. Esm't.

10' Utility Esm't.

20' Temp. Const. Esm't.

3½ C.L.F.

4" Evergreen

6" Hackberry

4" Gate Post's

Buried Telephone(SWB) Pedestal

Buried Telephone(SWB) Riser

Buried Telephone(SWB) Entrance Cable

18" Pine

36" Catalpa

36" Locust

36" Locust

7' Juniper

5' Juniper

#4 4" Osage Oranges

2" Osage Orange

12" Elm

18" Elm

18" Elm

18" Elm

5" Osage Orange

Const. Esm't.

15" Elm

12" Elm

12" Elm

12" Elm

12" Elm

Temp. Const. Esm't.

20' San. Sew. Esm't.

Barbed Wire Fence

℄ "600" Sta. G11+01.29
382.23' Right

188.84
Install ~~190.00~~ L.F. 15" Pipe

℄ "600" Sta. G12+55.79
271.65' Right

DELLROSE CHURCH OF CHRIST ADDITION

LOT 1

277.87
Install ~~280.00~~ L.F. 15" Pipe

℄ "600" Sta. G14+83.48
108.68' Right

294.84
Install ~~293.50~~ L.F. 15" Pipe

℄ "600" Sta. G17+22.15
62.14' Left

.62

Install ~~293.50~~ L.F. 15" Pipe

℄ "600" Sta. G20+74.11
742.50' Left

Lateral No. 1,
Sloans Lot Sewer District

ALL PIPE INSTALLED IS PVC PIPE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

PEC

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

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
PROJ. ENG. DATE

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

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

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., STRUCTURE NOTATNS CHKD, BY, DATE

1350 1345 1340 1335 1330 1325 1320 1315 1310

Existing Ground

MGA-9 Top Elev.=1338.55 .81

MGA-10 Top Elev.=1336.65 3702

MGA-11 Top Elev.=1334.55 .51

MGA-12 Top Elev.=1332.10 .34

MGA-13 Top Elev.=1331.33 .34 .25

℄ Out=1320.54 .47
℄ In=1320.74 .61

℄=1321.00 .00

℄=1321.65 .68

℄=1322.15 .15
℄=1322.47 .32

℄ Out=1322.83 .77
℄ In=1323.02 .77
.25 .25

188.84
~~190.00~~ L.F. 15" Pipe @ 0.20%

277.87
~~280.00~~ L.F. 15" Pipe @ 0.20%

294.84
~~293.50~~ L.F. 15" Pipe @ 0.20%

.62
293.50 L.F. 15" Pipe @ 0.20%

27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00

PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MAIN 6A
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	MDK	4/1/97

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDK, MDK | Job No. 34-91080
Drawn by GM | Date April 1990

Sht. 10 of 13

PART 1

5356448

Sta. 37+27.45 31.75
MGA-13

Sta. 39+52.45 53.04
Const. MGA-14
Type A

Sta. 42+42.45 46.43
Const. MGA-15
Type A

Contractor shall remove temporary masonry plugs and Install 15" pipe thru the existing 30" Steel Casing Pipe *(See detail, sht. no. 4)

CAUTION !!!
Fiber Optic Cable
(SW Bell)

CAUTION !!!
6" Gas line
(KPL)
12" Water line
(City of Wichita)
Tele. Cable
(SW Bell)

Sta. 45+09.95 13.19
Const. MGA-16
Type A

Barbed Wire Fence

Fiber Optics (SNB)

F.O.

Buried Telephone (SNB)

6" Gasline (KPL Gas Service)

GREENWICH RD. (SECTION LINE)

50' San. Sew. Esm't.

20' Temp Const Esm't

40' Temp. Const. Esm't.

20' San. Sew. Esm't.

30' Temp. Const. Esm't.

30' (by others) Proposed Sketch Plat 2

Temp. Const. Esm't.

Brush

Sew. Esm't.

℄ MAIN 6A

Install ~~232.00~~ 222.10 L.F. 15" Pipe

Remove and Reset R.R. Ties as required

Install ~~290.00~~ 292.40 L.F. 15" Pipe

Install ~~267.50~~ 206.76 L.F. 15" Pipe

℄ "600" Sta. G2G+74.11
742.50' Left

℄ "600" Sta. G19+81.71
157.45' Left

℄ "600" Sta. G22+71.62
164.53' Left

Remove and Reset fence as required

℄ "600" Sta. G2G+73.45
40.00' Right

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

PI G4

G19

G20+00

℄ Baseline "600"

G21

G22

G23

G24

G25+00

PI G5

* PRIOR TO BEGINNING CONSTRUCTION OF MAIN 6A, CONTRACTOR SHALL EXCAVATE AT EACH END OF THE EXISTING 30" STEEL CASING PIPE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION. IF FIELD INFORMATION IS DIFFERENT THAN AS SHOWN ON THE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT ANY PLAN MODIFICATIONS MAY BE MADE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

RECORD DRAWING
MDK PROJ. ENG. 7/14/97 DATE
_____ CONST. ENG. _____ DATE

MICHAEL D. SCHONMEYER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
PLACEMENT CHECKED
R/W CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
B. M.'S NOTED
STRUCTURE NOTATIONS CHKD

Existing Ground

MGA-13
Top Elev. = 1333.89
34.26

MGA-14
Top Elev. = 1338.17
35.03

MGA-15
Top Elev. = 1330.34

MGA-16
Top Elev. = 1340.16
9.95

Top Casing = 1326.46 *
+.85

Exist. 30" Steel Casing Pipe *

Top Casing = 1326.69 *
+.85

Out = 1322.83
In = 1322.73
22.10

Out = 1323.48
In = 1323.36
.12

Out = 1324.00
.16

Out = 1324.59
In = 1324.29
.16

222.10
~~225.00~~ L.F. 15" Pipe
@ 0.20%

292.40
~~290.00~~ L.F. 15" Pipe
@ 0.20%

206.76
~~267.50~~ L.F. 15" Pipe
@ 0.20%

1350
1345
1340
1335
1330
1325
1320
1315
1310

38+00
39+00
40+00
41+00
42+00
43+00
44+00
45+00

PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD

No.	By	Date	Revision
1	MJ	4/97	Update per PEC

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MAIN 6A
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Proj. No. 34-91080
Job No. 34-91080
Date April 1991
Designed by MDS, MDK
Drawn by GTT

Sht. 11 of 13

PART I

559448

LATERAL No. 13 Greenwich Heights 1st Sew. Dist.
See PART 3B; Sheet No. 24 of 51.

13.19
Sta. 45+02.25
MGA-16

20' San. Sew. Esm't

30' Temp. Const. Esm't.

30' Temp. Const. Esm't.

~~59.67~~
~~Sta. 47+80.29~~
Const. MGA-17
Type A

11.37
Sta. 50+09.29
Const. MGA-18
Type A

10.88
Sta. 54+08.29
Const. MGA-19*
Type B

Barb Wire Fc.

Utility Pole

Overhead Line

Corrugated Structure

Edge of Creek Channel

SPURRIER'S SUNSWEPT ACRES

Double Fence

GREENWICH ROAD

12" Water MAIN

Baseline

Tele. line (G.T.)

MAIN GA

20'

San. Sew. Esm't.

240.48
~~Install 248.33~~ L.F.
15" Pipe

251.70
~~Install 250.00~~ L.F.
15" Pipe

399.51
~~Install 400.00~~ L.F.
15" Pipe

Sta. 45+72.45
40.00' Right

Sta. 47+21.33
25.00' Right

Temp. Const. Esm't.

Remove and reset fence as required

Sta. 53+71.33
25.00' Right

40' Temp. Const. Esm't

20' San. Sew. Esm't

MAIN GA, Spring Creek Interceptor Sewer
See PART 3A; Sht. 12 of 51

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

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

* PRIOR TO BEGINNING CONSTRUCTION OF MH MSA-19, THE CONTRACTOR SHALL EXCAVATE AT EACH END OF THE EXISTING 20" STEEL CASING UNDER GREENWICH ROAD. THE CONTRACTOR SHALL VERIFY THE ALIGNMENT AND ELEVATION OF THE CASING PIPE AND REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS MAY BE MADE.

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
GEO. ENG. DATE

MGA-16
Top Elev. = 1340.56
~~1340.56~~
~~1324.99~~
~~1324.79~~
.16

MGA-17
Top Elev. = 1341.48
~~1341.48~~
~~1325.29~~
.23

MGA-18
Top Elev. = 1344.0
~~1344.0~~
~~1325.19~~
.74

MGA-19
Top Elev. = 1345.84
~~1345.84~~
~~1326.30~~
.53

Existing Ground

.55
~~1328.57~~ (10")
from MAIN GA (W)
(See Part 3A)

.12
~~1327.47~~ (8")
from LATERAL No. 13
(See Part 3B)

240.48
~~248.33~~ L.F. 15" Pipe
@ 0.20%

251.70
~~250.00~~ L.F. 15" Pipe
@ 0.20%

399.51
~~400.00~~ L.F. 15" Pipe
@ 0.20%

1355 1350 1345 1340 1335 1330 1325 1320 1315

34+00 35+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 341-81051-13
Drawn by TCAM | Date Nov. 1982

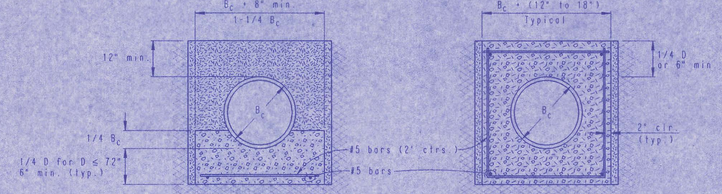
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RU	4/91

MAIN 6A
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

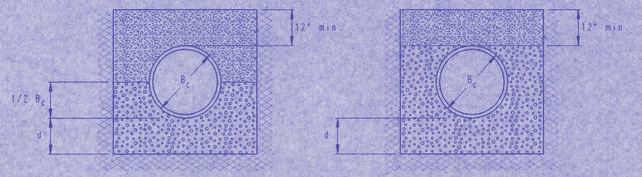
Sht. 12 of 13

PART I



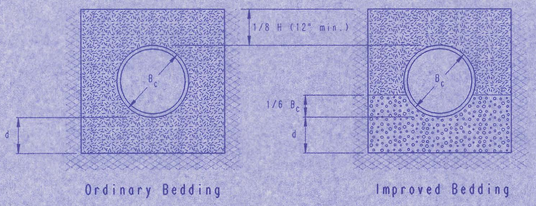
Concrete Cradle Concrete Encasement

CLASS A



Normal Bedding Improved Bedding

CLASS B



Ordinary Bedding Improved Bedding

CLASS C

PIPE ZONE BACKFILLING

B_c = Outside Pipe Diameter

H = Backfill from Top of Pipe to Existing Ground

D = Inside Pipe Diameter

d = Depth of Bedding Material Below Pipe

= Granular Bedding Material or Sand-Gravel Bedding

= Compacted Embedment

= Concrete (Class III)

Depth of Bedding Material Below Pipe		
D	d(min) Soil	d(min) Rock
27" & smaller	4"	6"
30" to 60"	5"	9"
66" & larger	6"	12"

Granular Bedding Material shall be an approved material consisting of durable crushed rock conforming with the requirements of the latest revision of ASTM C-33 Size No. 67 (3/4" to No. 4); to be placed in not more than 6" layers and compacted by slicing with a shovel or vibrating. Soundness, abrasion, and absorption limits shall be as required for coarse aggregates in Section 03010-Concrete Work in the specifications.

Sand-Gravel Bedding Material - sand-gravel mix meeting Type UD-1 of the 1990 Kansas Standard Specifications for State Road and Bridge Construction.

Compacted Embedment shall be an approved sand material free from debris, organic material, and stones with 100% passing the 3/4" sieve to be placed in uniform layers not more than 6" thick and compacted to 90 percent maximum density as determined by ASTM D1557. Granular Bedding Material may be substituted for all or part of Compacted Embedment Materials.

Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

Class B Bedding shall be used for all flexible pipe.

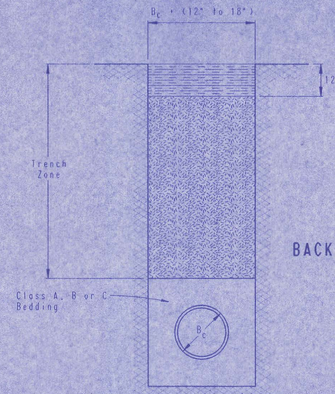
a. Class B Normal Bedding shall be used for PVC Pipe unless wet conditions are encountered.

b. Class B Improved Bedding shall be used for other flexible pipe, and for PVC pipe in wet conditions.

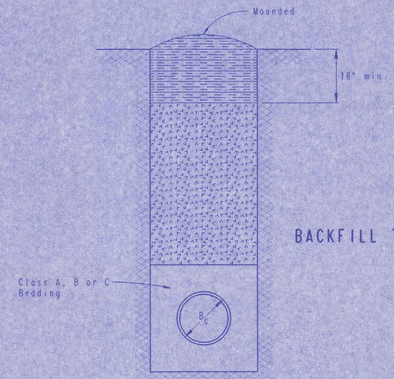
Class C Bedding shall be used for all rigid pipe.

a. Class C Ordinary Bedding shall be used for all rigid pipe unless wet conditions are encountered.

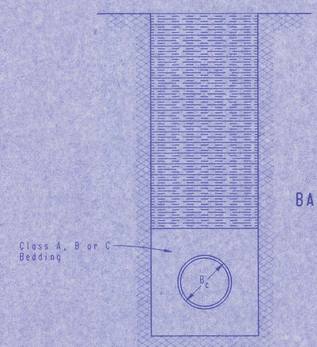
b. Class C Improved Bedding shall be used for wet conditions existing in the trench, as directed by the Engineer, at no additional cost to the Owner. The dimensions shall be equal to that required for "rock" excavation (see specifications)



BACKFILL TYPE I



BACKFILL TYPE II



BACKFILL TYPE III

TRENCH ZONE BACKFILLING

B_c = Outside Pipe Diameter

= Compacted Granular Backfill

= Uncompacted Earth Backfill

= Compacted Earth Backfill

Compacted Granular Backfill material shall be an approved sand material free from debris, organic material and stones with 100% passing the 3/4" sieve and not more than 15% passing a No. 200 sieve, to be jetted and mechanically vibrated into place and compacted to 90% density as determined by ASTM D1557.

Uncompacted Earth Backfill material may be natural soil free from large clods or stones, brush, roots more than 2 inches in diameter, debris, and junk. Flooding with water shall be provided as directed by the Engineer.

Compacted Earth Backfill shall consist of material existing prior to trenching or selected material as directed by the Engineer, and shall be compacted to 90% density as determined by ASTM D1557.

Backfill: Backfill material and compaction requirements shall conform to either Type I, Type II or Type III as specified in the plans. One years maintenance will be required on all backfill.

Backfilling Through Rock: Backfilling through rock shall be performed as specified in the paragraph Backfill above, except that the Pipe Zone is increased to provide eighteen (18) inches of cover over the pipe. When approved by the Engineer the remainder of the backfill may be excavated rock provided the excavated rock has been broken up so that earth and rock will thoroughly mix and not result in voids around the larger pieces of rock. Any excess rock remaining after the trench has been backfilled shall be removed or wasted as directed by the Engineer.

Backfilling Under Pavement: Backfilling under existing or proposed pavement shall be performed as Backfill Type I to a level of two (2) feet from the bottom of the pavement. The remainder of the trench shall be backfilled with selected material, sufficiently damp to be properly compacted in layers not exceeding six (6) inches in depth, compaction shall be performed with mechanical tampers and continued until a relative density of 95 percent of modified density, in conformance with ASTM D1557 is attained.

Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".

No.	Revision	By	Date

BACKFILL DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PLAN | CHECKED | BY | DATE
CHECKED

BUREAU OF PUBLIC SERVICES

SEDGWICK COUNTY KANSAS

CONSTRUCTION PLANS FOR

PART 2: SLOANS SANITARY SEWER LATERALS

SEPTEMBER, 1993

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP AND PLAT
SHEET NO. 3	PRECAST MANHOLE DETAILS
SHEET NO. 4	CAST-IN-PLACE MANHOLE DETAILS
SHEET NO. 5	MISCELLANEOUS DETAILS
SHEET NO. 6-8	PLAN/PROFILE
SHEET NO. 9	BACKFILL DETAILS

RECORD DRAWING
MDK PROJ. ENG. 7/12/97 DATE
_____ RES. ENG. _____ DATE

APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
DIRECTOR _____ DATE _____

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS
CHAIRMAN _____ DATE _____

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK
COUNTY CLERK _____ DATE _____

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

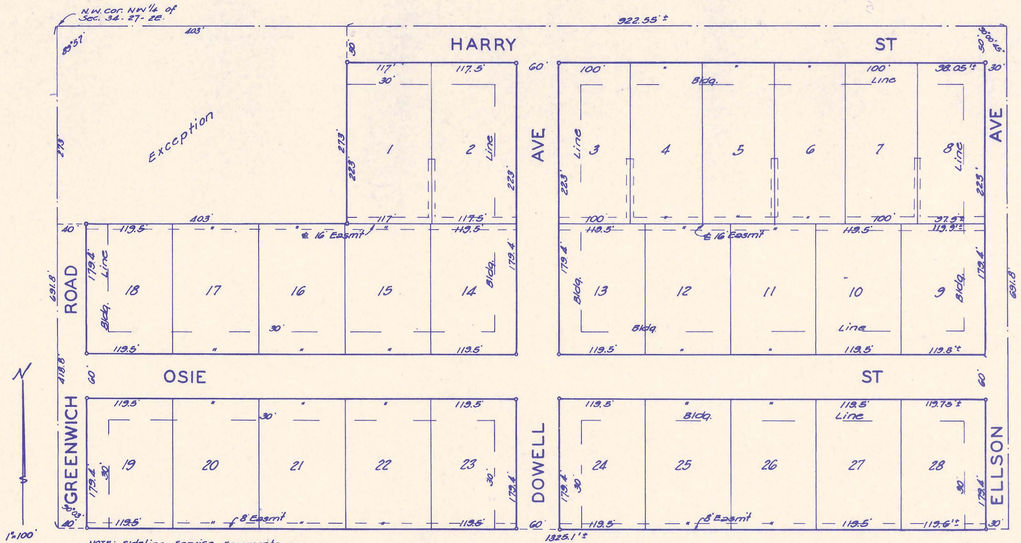
EPA PROJECT NO. C200691-02

MICHAEL D. SCHMIDT — LICENSED — 9778 — KANSAS — PROFESSIONAL ENGINEER — 10/19/93

DRAWING NAME: 34-9238 SLOAN SS TITLE
LOCATION COORDINATES: CAD DWG.#216
LINE TYPE:
ROTATION ANGLE:
DATE LAST WORKED ON: SEPT. 09, 1993 CKD. BY: DATE:
SPECIAL INSTRUCTIONS: CKD. BY: DATE:
EN-REJ

SLOAN'S ADDITION

SEDGWICK COUNTY, KANSAS.



NOTE: Sideline service easements are 10' wide, 5 on each side of lot lines to within 120' of front lot line.

BENCH MARK LIST

B.M. #1 - RAILROAD SPIKE IN POWER POLE, 48' WEST AND 40' SOUTH OF THE INTERSECTION OF GREENWICH ROAD AND HARRY STREET.
ELEV. = 1344.59 (MSL)

B.M. #2 - RAILROAD SPIKE IN STREET LIGHT POLE, 26' NORTH AND 22' EAST OF THE INTERSECTION OF OSIE STREET AND DOWELL AVENUE IN SLOAN'S ADDITION.
ELEV. = 1338.93 (MSL)

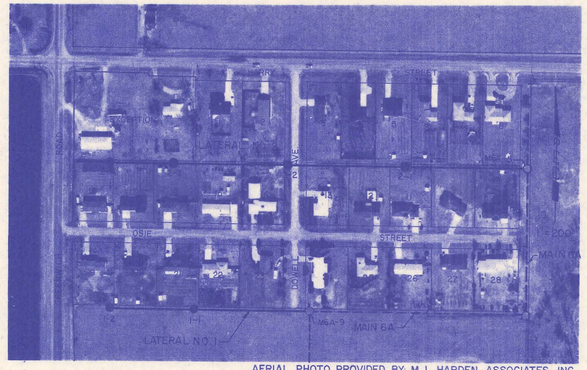
B.M. #3 - RAILROAD SPIKE IN POWER POLE, 31' EAST AND 1' NORTH OF THE SOUTHEAST CORNER OF LOT 28 IN SLOANS ADDITION.
ELEV. = 1328.96 (MSL)

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE USGS DATUM.
2. AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 887-2470 TO REQUEST THAT ANY EXISTING BURIED UTILITIES WITHIN THE PROJECT AREA BE FLAGGED.
3. THE BURIED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
4. AT LEAST 24 HOURS BEFORE CONNECTING NEW SEWER PIPE TO THE EXISTING SEWAGE SYSTEM, THE CONTRACTOR SHALL CONTACT THE SEDGWICK COUNTY EASTERN SEWER DISTRICT (733-0202). THE CONTRACTOR SHALL KEEP ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION. TO PREVENT WATER OR DEBRIS FROM ENTERING THE EXISTING SEWER, A MECHANICAL PLUG SHALL BE INSTALLED AND MAINTAINED TO ISOLATE THE EXISTING SEWER FROM THE NEW CONSTRUCTION UNTIL THE NEW CONSTRUCTION IS CLEANED, TELEVISED, AND HAS BEEN ACCEPTED. THE WATER USED FOR CLEANING SHALL NOT BE ADDED TO THE FLOW OF THE EXISTING SEWER. THE CLEANING OR OTHERWISE ACCUMULATED WATER SHALL BE PUMPED OR OTHERWISE REMOVED PRIOR TO TELEVISING.
5. ALL PIPE JOINTS SHALL BE LAID AND PUSHED 'FULL HOME', WITH THE BEVELED END OF THE SPIGOT MAKING FULL CONTACT WITH THE CHAMFERED AREA AT THE THROAT OF THE BELL OR SOCKET, WITH NO SEPARATION BETWEEN THEM. IF SEPARATION IS DETERMINED, THE PIPE SHALL BE EXCAVATED AND RELAYED ACCORDING TO SPECIFICATIONS AT THE CONTRACTORS EXPENSE.
6. EXCESS EXCAVATED MATERIAL AND OTHER DEBRIS SHALL BE WASTED ON SITES TO BE PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT EXISTING ROADWAYS AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY AS DIRECTED IN THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS, AND VERIFY THESE IN THE FIELD IN THE PRESENCE OF THE ENGINEER AND THE CONTRACTOR'S SURVEYOR. AFTER CONSTRUCTION AND BEFORE THE FINAL INSPECTION, A LETTER SIGNED AND SEALED BY THE LICENSED LAND SURVEYOR CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.

SEWER LATERAL SCHEDULE

LATERAL NO.	STATION TO STATION	MANHOLES	SHEET NO.
LATERAL NO. 1	0+00.00 to 3+~~19.00~~ 18.92	M6A-9 to 1-1	6
LATERAL NO. 1	3+~~19.00~~ 18.92 to 5+~~58.00~~ 57.95	1-1 and 1-2	7
LATERAL NO. 2	0+00.00 to 3+~~48.50~~ 46.59	M6A-5 to 2-1	7
LATERAL NO. 2	6+~~77.87~~ 73.22 to 11+~~70.87~~ 75.65	2-2 thru 2-4	8



AERIAL PHOTO PROVIDED BY M.J. HARDEN ASSOCIATES, INC.
FLOWN MARCH, 1981

9. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
10. EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.
11. POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAS SHALL BE MAINTAINED.
12. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
13. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.
14. ALL TRENCH BACKFILL SHALL BE EITHER TYPE I OR TYPE III UNLESS NOTED OTHERWISE.
15. THE CONTRACTOR SHALL ALSO CONTACT THE FOLLOWING AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ADVISE THEM OF THE INTENDED WORK AND OF HIS PROPOSED SCHEDULE:

SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
1250 S. SENECA
WICHITA, KS 67213
MR. JIM WEBER
(316) 383-7901

16. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS 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 LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR THE DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH THE PROPOSED CONSTRUCTION.
17. THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE HE SHALL COORDINATE SUCH WORK WITH THE ENGINEER. TREE REMOVAL OR TRIMMING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
18. WHERE INDICATED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE REMOVING, RESETTING, OR TYING BACK UTILITY POLES WITH THE UTILITY COMPANY. THE CONTRACTOR MAY USE OSHA APPROVED SHORING TO PREVENT REMOVAL AND RESETTING POLES WHERE ADEQUATE SPACE IS AVAILABLE BETWEEN THE PROPOSED SANITARY SEWER AND THE EXISTING UTILITY POLES. ALL COSTS INCURRED FOR THIS WORK, INCLUDING ANY FEES CHARGED BY THE UTILITY COMPANY, SHALL BE PAID BY THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
19. PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH THE PROPOSED WORK. THE CONTRACTOR SHALL REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER PRIOR TO THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH THE PROPOSED WORK SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
20. UNLESS NOTED OTHERWISE, ALL 4" PIPE SHALL TERMINATE WITH A PLAIN END AND SHALL BE SEALED WITH A GASKETED COMPRESSION TYPE CAP SPECIFICALLY MADE FOR THE PIPE BEING INSTALLED. CAPS MAY BE TAPED ON, BUT SHALL NOT BE GLUED OR CEMENTED TO THE PIPE. LOCATION OF ENDS OF 4" PIPE SHALL BE MARKED BY FASTENING 2-INCH WIDE METALLIC DETECTABLE TAPE TO THE END OF THE 4" PIPE THEN WRAPPED OR OTHERWISE FASTENED AT 3-FOOT INTERVALS TO 1" O.D. PVC PLASTIC PIPE EXTENDING FROM THE 4" PIPE TO THE GROUND SURFACE SUCH THAT THE TAPE IS VISIBLE WHEN THE PROJECT IS COMPLETED. METALLIC DETECTABLE TAPE SHALL BE "MagnaTec" AS MANUFACTURED BY THOR ENTERPRISES, INC., WATERLOO, WISCONSIN OR "LINEGUARD TYPE III" AS MANUFACTURED BY LINEGUARD, INC., CHICAGO, ILLINOIS OR AN APPROVED EQUAL.
21. PAVEMENT AND OTHER TRAVELWAYS DAMAGED BY THE CONTRACTOR'S OPERATIONS, INCLUDING TRAFFIC FOR MATERIAL DELIVERY AND REMOVAL, OUTSIDE OF THE PAYMENT LIMITS FOR REMOVAL AND REPLACEMENT SHALL BE REPLACED OR REPAIRED IN KIND, BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
_____ RES. ENG. _____ DATE

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per PEC Proj No. 34-91080	RJ	4/01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

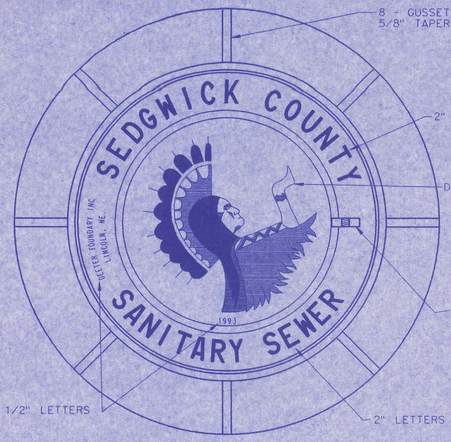
KEY MAP & PLAT

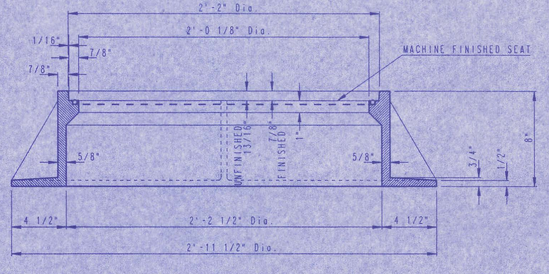
SANITARY SEWER LATERALS
SLOANS LATERAL SEWER DISTRICT

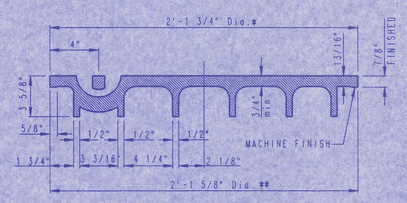
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK | Job No. 81051-13 | Sht. 2 of 9
Drawn by TC, SC | Date June 1981

PART 2







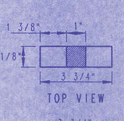
*OUTSIDE DIA. TOP OF COVER
**OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME AND COVER

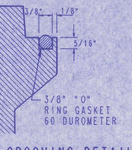
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

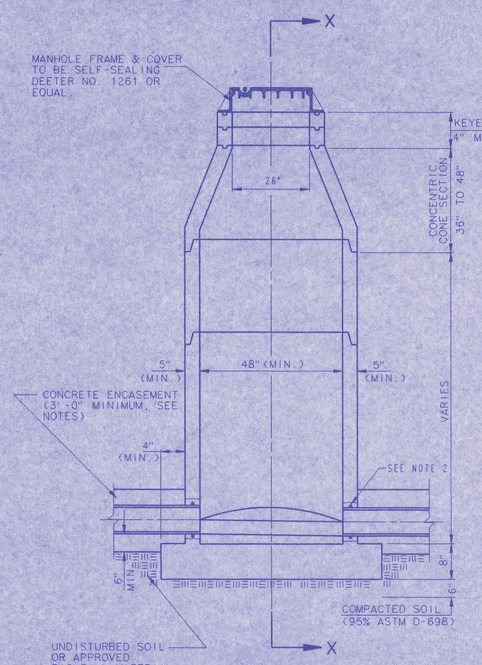
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
2. CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS AND ALL BURRS SHALL BE GROUND SMOOTH. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY ± 1/16" PER FOOT.
3. NO OTHER LETTERING OR MARKINGS OTHER THAN THOSE DETAILED ON PLAN WILL BE PERMITTED ON CASTINGS.
4. CASTINGS MUST BE DOMESTICALLY MANUFACTURED IN THE UNITED STATES OF AMERICA.
5. THE FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL-BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
6. MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY INC. NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT.=430 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
7. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
8. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED CONTINUOUS "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL BE FACTORY INSTALLED IN THE MANHOLE FRAME WITH 100% SILICON SEALANT-DOW CORNING OR EQUAL.



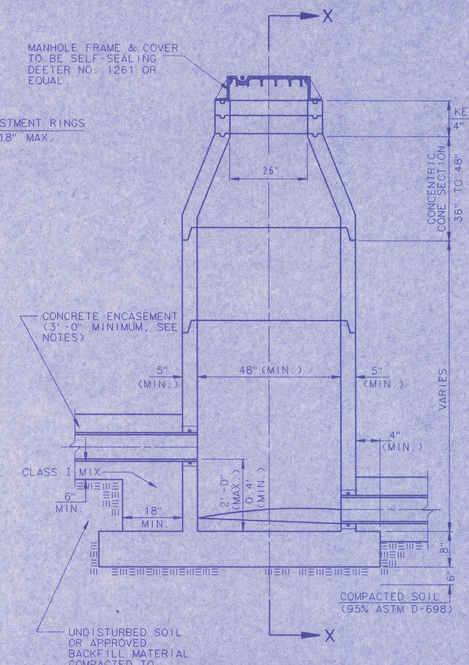
PICK HOLE DETAIL



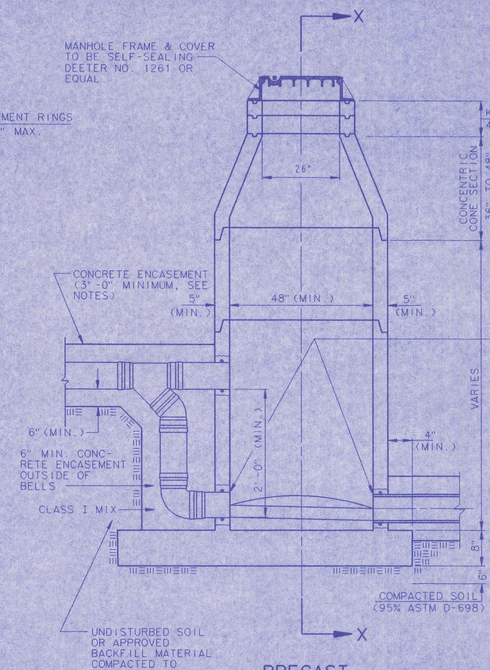
FRAME GROOVING DETAIL
(TYPICAL ALL MANHOLES)



PRECAST
STANDARD MANHOLE
TYPE "A"



PRECAST
INSIDE DROP MANHOLE
TYPE "B"

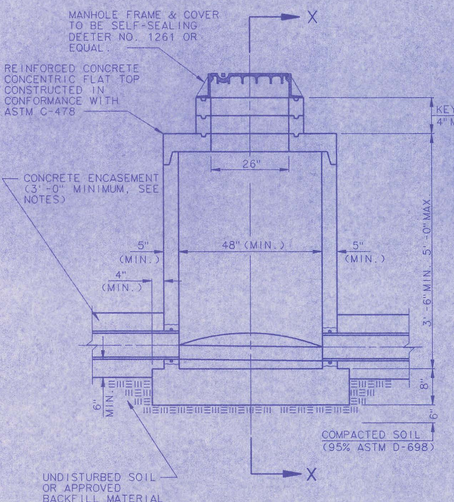


PRECAST
OUTSIDE DROP MANHOLE
TYPE "C"

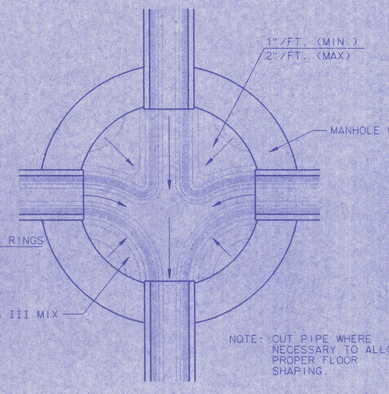
PRECAST MANHOLE NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL OVEREXCAVATE TO A SUITABLE SUBGRADE CONDITION AND CRUSHED ROCK SHALL BE PLACED AND COMPACTED TO THE REQUIRED GRADE.
2. "ALOK" OR APPROVED EQUAL FLEXIBLE WATER-STOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL. SEWER PIPES EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CLASS B CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
3. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
4. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
5. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
6. 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.
7. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5' INSIDE DIAMETER (MIN.).
8. INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.
9. MANHOLES SHALL BE SUPPLIED WITH PRECAST MONOLITHICALLY CAST BASE SECTIONS UNLESS OTHERWISE APPROVED. ALL PRECAST CONCRETE MANHOLE SECTIONS AND BASES SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS.
10. WHERE MANHOLE STUBS ARE SHOWN ON THE PLANS, THE STUB SHALL EXTEND AT LEAST 5 FEET FROM THE INSIDE WALL OF THE MANHOLE WITH A MINIMUM OF 3 FEET OF CONCRETE ENCASEMENT. THE CONTRACTOR SHALL PREVENT ANY CONCRETE FROM BEING WITHIN 1 FOOT OF THE END OF THE STUB.
    4" STUBS SHALL BE SET AT 2.0% GRADE.
    6" STUBS SHALL BE SET AT 1.0% GRADE.
11. MANHOLE SECTIONS SHALL BE SUPPLIED WITH RECESSED LIFTING EYES. LIFTING EYE RECESSES SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.

SECTION X
(TYPICAL)



PRECAST
SHALLOW MANHOLE
TYPE "D"



NOTE: CUT PIPE WHERE NECESSARY TO ALLOW PROPER FLOOR SHAPING.

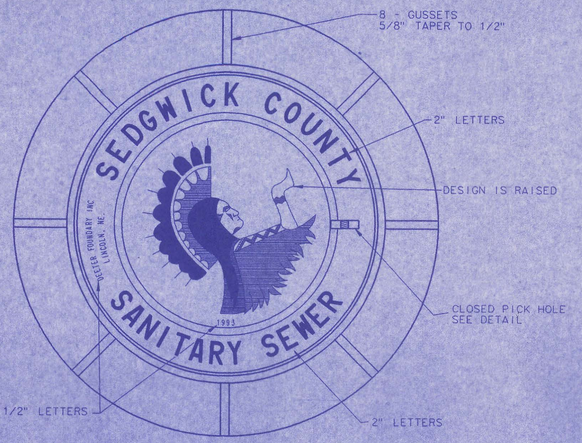
TYPICAL MANHOLE
FLOOR SHAPING

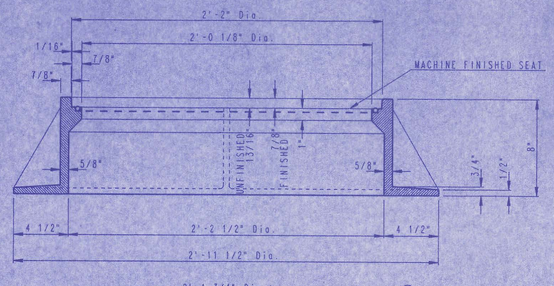
No.	Revision	By	Date
4	Precast Bases, Precast Manhole Notes, Manhole Frame and Cover Notes, Keyed Adjustment Rings, and Class I mix of concrete encasement and field cap	RJ	8/27/93
3	All Manholes self-sealing/MH Cover	RJ	1/25/93
2	Modified pipe connection note	RJ	6/01/92
1	Manhole Frame and Cover Note 1	RJ	7/16/91

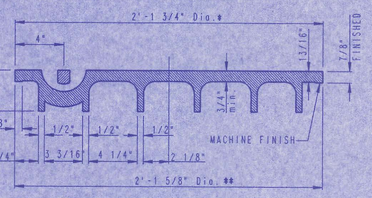
PRECAST MANHOLE DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

CL-35







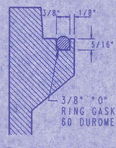
*OUTSIDE DIA. TOP OF COVER
**OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME AND COVER

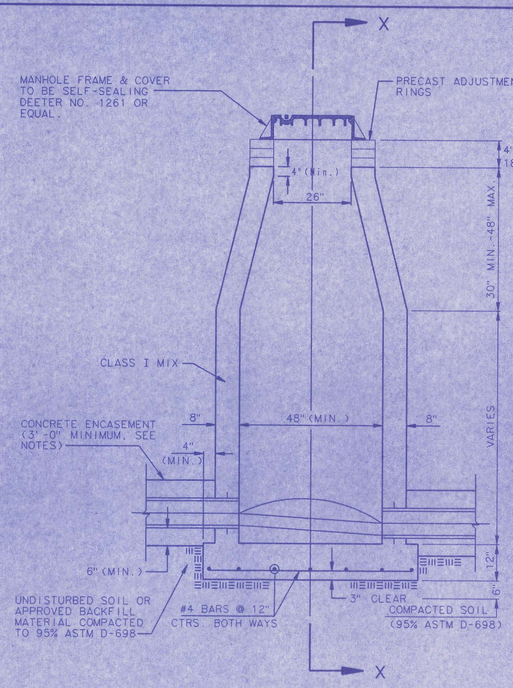
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

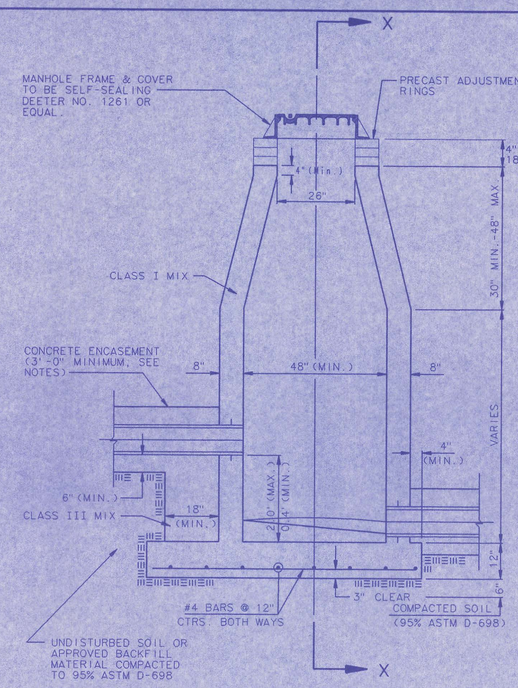
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6. MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY, INC. NO. 1261 OR APPROVED EQUAL. UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS, (MINIMUM WT.=430 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
7. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
8. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
9. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER.



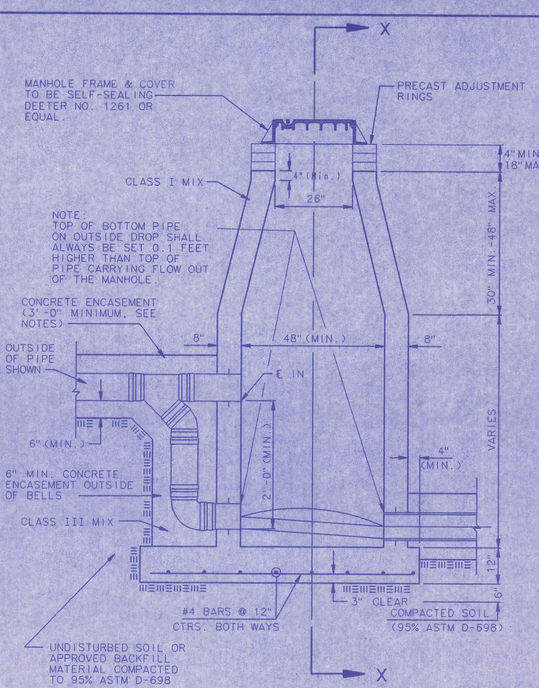
FRAME GROOVING DETAIL
(TYPICAL ALL MANHOLES)



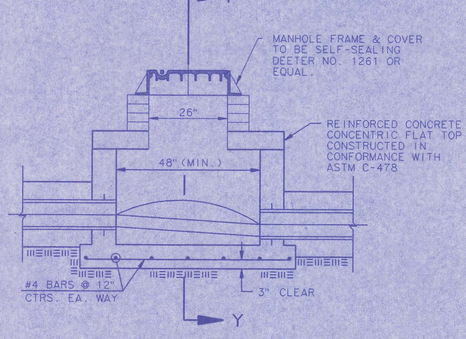
CAST IN PLACE
STANDARD MANHOLE
TYPE "A"



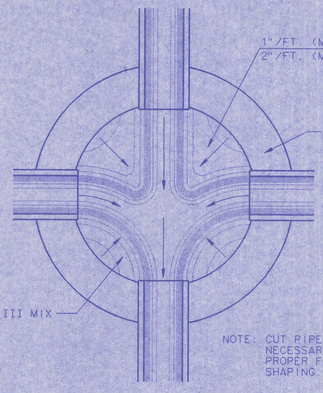
CAST IN PLACE
DROP MANHOLE
TYPE "B"



CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "C"

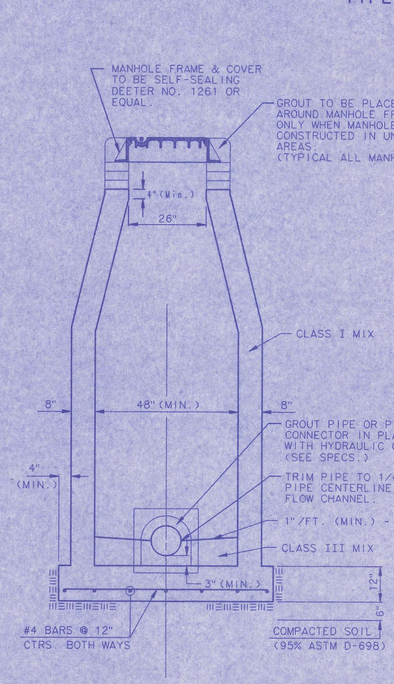


SHALLOW MANHOLE
TYPE "D"

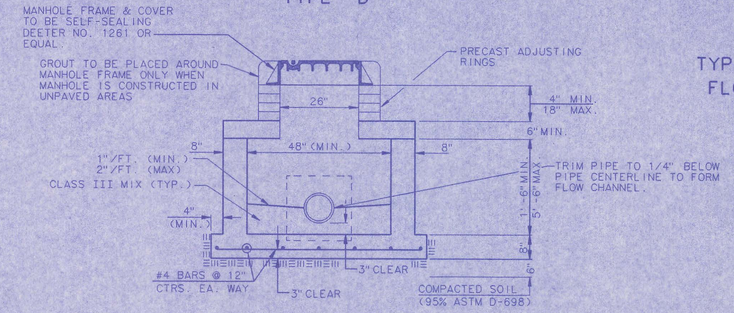


NOTE: CUT PIPE WHERE NECESSARY TO ALLOW PROPER FLOOR SHAPING.

TYPICAL MANHOLE
FLOOR SHAPING



SECTION X
(TYPICAL)



SECTION Y

CAST-IN-PLACE MANHOLE NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. WHEN OPENINGS ARE CUT IN MANHOLE WALLS FOR PIPE, THE PIPE OR PIPE CONNECTOR SHALL BE GROUTED IN PLACE WITH HYDRAULIC CEMENT. EXTERIOR OF COMPLETED CONNECTION SHALL BE SEALED WITH APPROVED COATINGS.
4. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATIONS WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
5. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN ABS COMPOSITE PIPE OR PVC PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
6. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING OR BRICK MASONRY COLLAR AND THE MANHOLE FRAME.
7. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
8. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
9. MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5' INSIDE DIAMETER.

No.	Revision	By	Date
3	All Manholes Self-sealing/ MH Cover	RJ	1/25/93
2	Modified Pipe connection note and MH Note 3	RJ	6/01/92
1	Manhole Frame and Cover Note 1	RJ	7/16/91

CAST-IN-PLACE MANHOLE DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

4-93

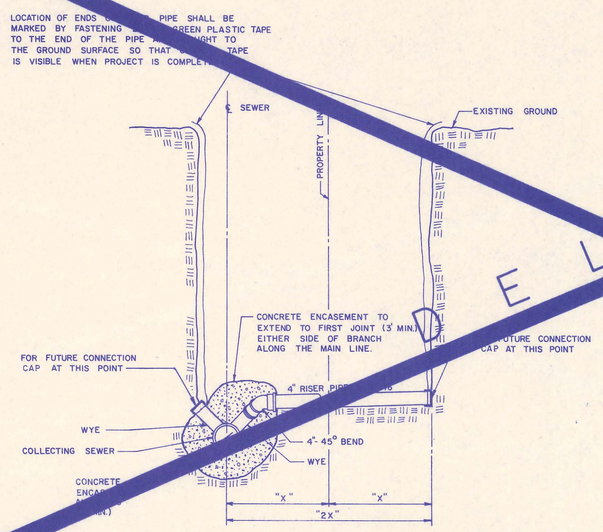
WYE LOCATION TABLE

NOTE: THE ENGINEER WILL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON THE TABLE BELOW. DESIGN WYE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED AS NECESSARY TO BEST SERVE EXISTING BUILDINGS AND LOTS AS DIRECTED BY THE ENGINEER.

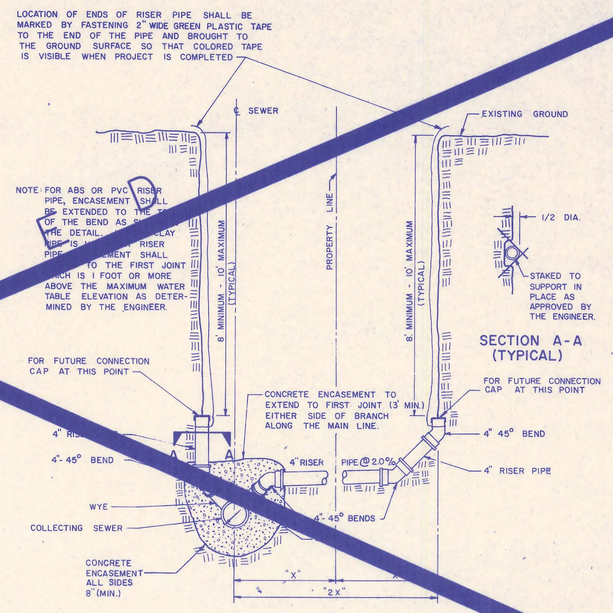
WYE NO.*	DESIGN LOCATION					RISER PIPE	DISTANCE FROM MANHOLE	
	LATERAL NO.	STATION	BLOCK NO.	LOT NO.	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM
1	1	0+30	N/A	28	Right	10.0		
2	1	1+50	N/A	27	Right	10.0		
3	1	2+70	N/A	26	Right	10.0		
4	1	3+90	N/A	25	Right	10.0		
5	1	5+10	N/A	24	Right	10.0		
6	1	6+90	N/A	23	Right	10.0		
7	1	8+10	N/A	22	Right	10.0		
8	1	9+30	N/A	21	Right	10.0		
9	1	10+60	N/A	20	Right	11.0		
10	1	11+80	N/A	19	Right	10.0		
11	2	0+30	N/A	8	Right	8.0		
12	2	0+35	N/A	9	Left	0.0		
13	2	1+30	N/A	7	Right	8.0		
14	2	1+50	N/A	10	Left	0.0		
15	2	2+30	N/A	6	Right	10.0		
16	2	2+70	N/A	11	Left	2.0		
17	2	3+30	N/A	5	Right	10.0		
18	2	3+90	N/A	12	Left	3.0		
19	2	4+30	N/A	4	Right	12.0		
20	2	5+10	N/A	13	Left	3.0		
21	2	5+30	N/A	3	Right	10.0		
22	2	6+90	N/A	2	Right	10.0		
23	2	6+95	N/A	14	Left	5.0		
24	2	8+10	N/A	1	Right	10.0		
25	2	8+30	N/A	15	Left	2.0		
26	2	9+85	N/A	N/A	Right	8.0		
27	2	9+30	N/A	16	Left	0.0		
28	2	10+60	N/A	17	Left	0.0		
29	2	11+75	N/A	N/A	Right	8.0		
30		11+80	N/A	18	Left	0.0		

* All Wyes shall be 8"x4" unless noted otherwise.

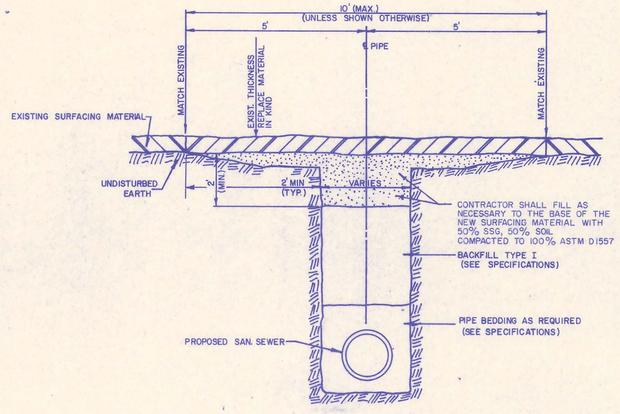
DELETED



WYE AND RISER DETAIL
(FOR COLLECTING SEWER DEPTH LESS THAN 10')



WYE AND RISER DETAIL
(FOR COLLECTING SEWER DEPTH GREATER THAN 10')



UNPAVED ROAD OR DRIVE-REMOVAL AND REPLACEMENT

GRASS PLANTING

THE CONTRACTOR SHALL PLANT GRASS ON ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NEITHER PART OF PAVED OR UNPAVED ROADS OR DRIVES NOR AREAS OCCUPIED BY SIDEWALKS, STRUCTURES, GARDENS, OR CULTIVATED CROPS. SURFACES SHALL BE PREPARED, FERTILIZED, AND PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AT THE APPLICATION RATES GIVEN BELOW. THE COST FOR SEEDING, SPRIGGING, AND SODDING SHALL BE SUBSIDIARY TO THE PRICE BID FOR "SITE CLEARING AND RESTORATION".

ROAD RIGHTS-OF-WAY AND OTHER PUBLICLY OWNED AREAS SHALL BE SEEDED AS DIRECTED BELOW UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TEMPORARY SEED AND MULCH AREAS THAT ARE SUSCEPTIBLE TO EROSION AND AREAS THAT WILL NOT BE PERMANENTLY SEEDED WITHIN A 2 MONTH PERIOD, AS DIRECTED BY THE ENGINEER. ALL AREAS TO BE SEEDED SHALL BE PROVIDED WITH TOP SOIL SUFFICIENT TO PROVIDE SUBSTANTIAL GROWTH.

APPLICATION RATES:

1. SEED: K-31 FESCUE @ 8 LBS PER 1,000 SQUARE FEET
2. MULCH (IF REQUIRED): 90 LBS PER 1,000 S.F.
3. FERTILIZER: NITROGEN @ 1 LB PER 1,000 S.F.
   PHOSPHOROUS @ 2 LBS PER 1,000 S.F.
   POTASSIUM @ 1 LB PER 1,000 S.F.

GRASS ON PRIVATELY-OWNED AREAS (INCLUDING TEMPORARY AND PERMANENT EASEMENTS) SHALL BE REPLACED IN KIND IN ACCORDANCE WITH THE INFORMATION GIVEN BELOW OR AS DIRECTED BY THE ENGINEER.

TYPE OF GRASS	PLANTING TIME	SEEDING APPLICATION	FERTILIZER*
BLUEGRASS (WINDSOR KENTUCKY, ETC.)	FALL	3 LBS/1,000 S.F.	8 LBS/1,000 S.F.*
TALL FESCUE (K-31)	SPRING AND FALL	8 LBS/A,000 S.F.	8 LBS/1,000 S.F*
BERMUDA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F*
ZOYSIA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.*

*FERTILIZER APPLICATION RATES ARE BASED ON ACTUAL LBS OF PHOSPHOROUS APPLIED PER 1,000 S.F. FERTILIZER SHALL BE 12-24-12 OR OTHER HIGH PHOSPHOROUS TYPE AS APPROVED BY THE ENGINEER. (EXAMPLE: TO APPLY 2 LBS OF PHOSPHOROUS USING A 12-24-12 FERTILIZER, 8 LBS OF FERTILIZER WOULD BE REQUIRED.)

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
_____ RES. ENG. _____ DATE

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MISCELLANEOUS DETAILS

SANITARY SEWER LATERALS
SLOANS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK	Job No. 81051-7	Sht. 5 of 9
Drawn by TC, SC	Date JUNE, 1981	

PART 2

Existing MH
See Proj. No. 34-81051-3-024

Sta. 0+00.00
LATERAL No. 1
Connect pipe to existing stub

Install Wyes and Pipe Risers per the "Wye Location Table" on sheet No. 5

Sta. 3+48.50
Const MH 1
Type A

SCALE
0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vertical — 10 5 0

20' Temporary Construction Easement

Pasture land

LATERAL No. 1-7

5'

ELLISON AVE.

D.M.

Barbed Wire Fc.

1" Blue Water Spigot

Garden

10' Easement

25'

Existing MAIN G Spring Creek Interceptor
See Proj. No. 34-81051-3-024

Wet Iron Pipe

8" Pine

8" Evergreen

Hedge Bushes

10" Mulberry

Water Spigot

Evergreen

6" Sycamore

Bush

Iron Pipe

Evergreen

7" Pine

Tele. Box

8' Easement

Buried Telephone

Barbed Wire Fc.

Install 348.50 L.F. 8" Pipe

SLOANS

27

DELETED

Portable Log Pen

4' Ch. Lk. Fc.

26

6" Cherry

Sapling

6" Lilac

12" Mulberry

8' Evergreens

ADDITION

Pasture Land

10' Sanitary Sewer Easement

LATERAL No. 1-7

5'

(continued below)

Tele. box

Buried Telephone

Barbed Wire Fc.

6" Cherry

25

Install 328.50 L.F. 8" Pipe

24

13' Pine

Existing MH
Top Elev.: 1328.0

Existing Ground

DELETED

348.50 L.F. 8" Pipe
@ 2.50%

Fc 1320.71

328.50 L.F. 8" Pipe
@ 1.00%

(continued below)

1340
1330
1320
1310

0+00 1+00 2+00 3+00 4+00 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-81051-13-024
Designed by MDS, MDK
Drawn by TC
Date April, 1991

MAIN GA of the Spring Creek Interceptor Sewer (See Part 1)

30' Temp. Const. Esm't.

20' San. Sewer Easement

5' MAIN GA 1

Barbed Wire Fc.

8' Easement

T Buried Telephone (SWB)

Tele. Box

G" Cherry

25

Bushes

24

13" Pine

SLOANS

4" Evergreen

Wet Iron Pipe

P.P.

4' Gate Post

DOWELL AVE.

4' Gate Post

10' San. Sew. Esm't.

Hackberry

3½' Ch. Lk. Fence

Wet Iron Pipe

76.58
Sta. 20+70.45, MAIN GA =
Sta. 0+00.00, LATERAL No. 1
MGA-9

30' Temp. Const Esm't.

Sapling

Sapling

Sapling

Pasture Land

20' Temp. Const. Esm't.

DELLROSE CHURCH OF CHRIST ADDITION

10' Utility Easement

LATERAL No. 1-7

5'

Wet Iron Pipe

8' Easement

3½' Chain Link Fence

23

3½' Ch. Lk. Fence

Tele. Box

Hedge Bushes

Gate

Bird House

Fence Posts

Sapling

Sapling

Tele Box

10'

3½' Chain Link Fence

Buried Telephone (SWB)

Sta. 3+18.92
Const. 1-1
Type A

+18.92

3+18.92
Install 319.00 L.F. 8" Pipe

ADDITION
ALL PIPE INSTALLED IS PVC PIPE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

RECORD DRAWING
MDK PROJ. ENG. 3/1/97 DATE
REC. ENG. DATE

No.	Revision	By	Date
1	Update per PEC Proj No. 34-91080	RJ	4/91

MGA-9
Top Elev.=1338.6
.61

Existing Ground

1-1
Top Elev.=1342.5
43.15

@
IE IN=1320.71 (15")
from 1 MAIN GA (5)

IE OUT=1320.56
IE IN=1320.33
.23

IE=1330.63

3+18.92
3+19.00 L.F. 8" Pipe
@ 0.40%

1350
1340
1330
1320

0+00 1+00 2+00 3+00

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
SLOANS LATERAL SEWER DISTRICT

LATERAL NO. 1

Sht. 6 of 9

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PART 2

Sta 3+18.92 (was 3+10.00)
1-1

DELLROSE CHURCH OF CHRIST ADDITION

20' Temporary Construction Easement

10' Utility Easement

Sapling

Pasture Land

Sta. 5+58.00 (was) +57.95
Const. 1-2
Type A

Install 10 L.F.
4" Pipe @ 2.0 %
See detail sht. no. 3

SCALE
0 20 40
PLAN: Lat. & Long.
10
PROFILE: Horiz. same as above
Vertical → 5
0

5' 5'

Hedge Bushes
4' Ch. Lk. Fence
Tel. Box
8' Easement
4' Chain Link Fence
Buried Telephone (SWB)
½" Iron Pipe
LATERAL No. 1
4' Ch. Lk. Fence
Concrete
Garage
21
SLOANS
6" Cherry
.03
Install 239.00 L.F. 8" Pipe
Metal Shed
20
ADDITION
E=1333.79
Fence
Garage
Tele. Box
4' Ch. Lk. Fence
8' Easement
10'
Evergreen
Wood Shed
Garden Boxes
Grape Vines
19
Bushes
PP
Barb Wire Fence
¾" Iron Pipe
GREENWICH ROAD

Install [illegible] Pipe [illegible] the "[illegible]" Section Table on Sht. No. 5

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350
1340
1330
1320

1.1
100 Elev.=1346.5
43.15
Existing Ground
1.2
TOP Elev.=1343.72
E IN = 1333.59 (was 1333.80)
from 4" pipe (N)
E=1330.68 (was 1330.72)
.03
239.00 L.F. 8" Pipe
@ 1.10%
E=1333.26 (was 1333.42)

3+00 4+00 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-91051-13-024
Designed by: MDS, MDK
Drawn by: TC
Date: April, 1991

16+38.80 (was 16+38.36), MAIN GA=
Sta 0+00.00, LATERAL No. 2
MGA-5

Wood Shed on Conc. Slab
Cedar
4' Ch. Lk. Fence
Bush
Tamper Springs
9
4' Ch. Lk. Fence
SLOANS
CAUTION !!
Buried Telephone
10
50'
4 Trees
Juniper
Cottonwood
11
Sta. 3+48.50 (was) +46.52
Const. 2-1
Type A
15" Cottonwood
18" Elm
6" Poplars
4 Sycamore
1" Redbud
35.27'
4" Poplar
3" Red Bud
8" Maple
4' Ch. Lk. Fe.
ADDITION
12
Wood Shed
CAUTION !!
Buried Telephone
13
Existing Fence Post
Easement
LATERAL No. 2
4'
10' Temporary Construction Easement
Buried Telephone (SWB)
Tel. Pedestal
Wood Fence
3
Tele Box
Garage
5
Easement
Wood Shed
Motor Shed
Gate
4' Ch. Lk. Fe.
Red Bush Hedge
Bush Row
Chain Link Fe.
6
Wood Fence
8' Easement
10' Temporary Construction Easement
Tele. Box
Tel. Pedestal
7
Wood Shed on Conc. Slab
40' Temp. Const. Esmt.
Gravel Surface Drive
AVE.
ELLSON
25'
MAIN GA of the Spring Creek Interceptor Sewer (See Part 1)
Install 348.50 L.F. 8" Pipe
326.50
Install 329.37 L.F. 8" Pipe

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

RECORD DRAWING
MDK
PROJ. ENG. [illegible] DATE
REG. ENG. DATE

1340
1330
1320
1310

MGA-5
Top Elev.=1330.80
E our=1336.45
E IN=1323.38
1.1
100 Elev.=1346.5
43.15
Existing Ground
2.1
100 Elev.=1343.72
35.38
E=1323.84 (was 1323.46)
.46
346.50
348.50 L.F. 8" Pipe
@ 0.40%
326.50
329.37 L.F. 8" Pipe
@ 0.40%
Continued on following sheet

0+00 1+00 2+00 3+00 4+00 5+00

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 1 & 2
SANITARY SEWER LATERALS
SLOANS LATERAL SEWER DISTRICT

Sht. 7 of 9

PART 2

CAUTION !!
Buried Telephone SLOANS

Temporary Construction Easement
(continued from preceding sheet)
LATERAL No. 2

10' 4' 10' 4'

Buried Telephone (SWB)

12" Rebar

3' Wood Fence

10" Elm

15" CMP

Exist. Bridge Box

AVE.

DOWELL

Gravel Road

Evergreens

Sta. 6+77.87
Const. 2-2
Type A

73.09

Pines

Pines

Pines

Utility Box

Evergreens

6' Wood Fence

Do Not Disturb
FENCE ON LOT 15
ADDITION

CAUTION !!
Buried Telephone

Evergreens

Utility Box

Riser

Sta. 9+81.57
Const. 2-3
Type A

.16

59.70'

Arbor Vitae Row

C.L. Fence

Wood Shed

8'

Easement

4'

7' Temp. Const. Esm't.

10' Temp. Const. Esmt.

Esmt.

Buried Telephone (SWB)

LATERAL No. 2

20' Temp.

180°00'

Const. Esmt.

EXCEPTION

Remove and Replace 22 S.Y.
Unpaved road as shown.
See detail, Sht. No. 5

Remove and Reset
15" CMP as required

ALL PIPE INSTALLED
IS PVC PIPE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

308.07
Install 303.70 L.F.
8" Pipe

P.P.w/ Riser & Meter

3" Tree

3" Tree

12" Cottonwood

3" Cottonwood

6" Chain Link Fe.

6" Cottonwood

Install ~~Valve and Pipe Protector~~ per the "Valve Location Table on Sht. No. 5

1340
1330
1320
1310

Existing Ground

2-2
Top Elev=1337.53

2-3
Top Elev=1340.03
1340.03
.52

ft=1325.25

ft=1330.36

(continued from preceding sheet)

308.06
~~303.70~~ L.F. 8" Pipe
@ 1.70%

5+00 6+00 7+00 8+00 9+00 10+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDB, MDK
Drawn by PC

Job No. 34-31065/13-CED
Date April 1991

2" E.G.

15

C.L. Fence

Sta. 0+81.57
2-3

.16

SLOANS

16

Arbor Vitae Row

Wood Shed

59.70'

Utility Box

Top

4'

8'

LATERAL No. 2

180°00'

20' Temporary Construction Easement

Clothes line

CAUTION !!
Buried Telephone

17

Small Evergreens

10' Temp. Const. Esmt.

4'

Buried Telephone (SWB)

Easement

EXCEPTION

194.49
Install ~~189.30~~ L.F.
8" Pipe

ALL PIPE INSTALLED
IS PVC PIPE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

75.65
Sta. 11+70.87
Const. 2-4
Type A

ADDITION

ft=1332.84

6' Wood Fence

45°

10' x 25' Temporary Construction Easement

Easement

Install 5.0 L.F.
4" pipe @ 2.0%
See detail sht. no. 3

Propane tank

Suburban Feed & Supply

GREENWICH ROAD

Utility Box

Riser

Tank

SCALE
0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vertical 10 5 0

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
REG. ENG. DATE

MICHAEL D. SCHOMMER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-31080	RJ	4/91

1350
1340
1330
1320

2-3
Top Elev=1340.03
1340.03
.52

2-4
Top Elev=1334.28
1334.28
.43

Existing Ground

ft=1330.36

ft=1332.94
.89
from 4" pipe (SW)

ft=1332.41

ft=1332.63

194.49
~~189.30~~ L.F. 8" Pipe
@ 1.10 %

9+00 10+00 11+00

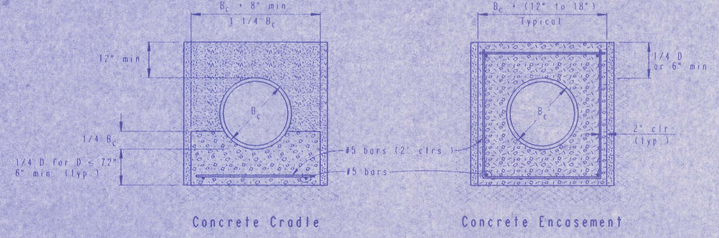
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID L. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 2

SANITARY SEWER LATERALS
SLOANS LATERAL SEWER DISTRICT

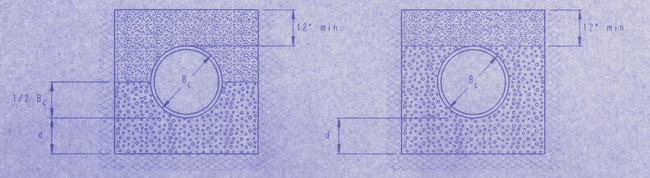
Sht. 8 of 9

PART 2



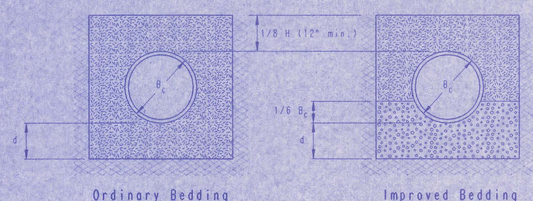
Concrete Cradle Concrete Encasement

CLASS A



Normal Bedding Improved Bedding

CLASS B



Ordinary Bedding Improved Bedding

CLASS C

PIPE ZONE BACKFILLING

B_c = Outside Pipe Diameter

H = Backfill from Top of Pipe to Existing Ground

D = Inside Pipe Diameter

d = Depth of Bedding Material Below Pipe

= Granular Bedding Material or Sand-Gravel Bedding

= Compacted Embedment

= Concrete (Class III)

Depth of Bedding Material Below Pipe		
D	d(min) Soil	d(min) Rock
27" & smaller	4"	6"
30" to 60"	5"	9"
66" & larger	6"	12"

Granular Bedding Material shall be an approved material consisting of durable crushed rock conforming with the requirements of the latest revision of ASTM C-33 Size No. 67 (3/4" to No. 4), to be placed in not more than 6" layers and compacted by slicing with a shovel or vibrating. Soundness, abrasion, and absorption limits shall be as required for coarse aggregates in Section 03010-Concrete Work in the specifications.

Sand-Gravel Bedding Material - sand-gravel mix meeting Type UD-1 of the 1990 Kansas Standard Specifications for State Road and Bridge Construction.

Compacted Embedment shall be an approved sand material free from debris, organic material, and stones with 100% passing the 3/4" sieve to be placed in uniform layers not more than 6" thick and compacted to 90 percent maximum density as determined by ASTM D1557. Granular Bedding Material may be substituted for all or part of Compacted Embedment Materials.

Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

Class B Bedding shall be used for all flexible pipe.

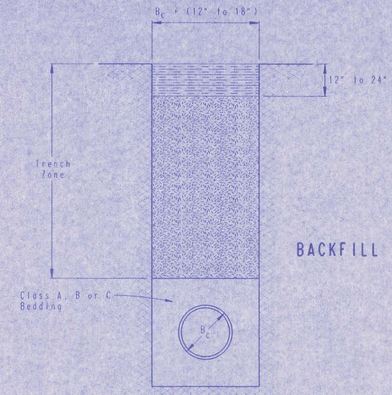
a. Class B Normal Bedding shall be used for PVC Pipe unless wet conditions are encountered.

b. Class B Improved Bedding shall be used for other flexible pipe, and for PVC pipe in wet conditions.

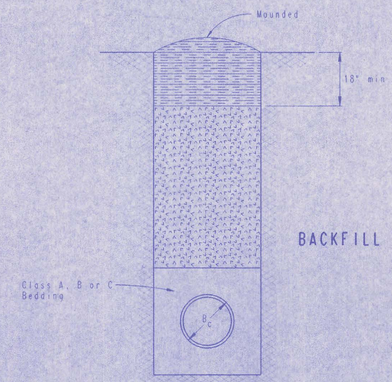
Class C Bedding shall be used for all rigid pipe.

a. Class C Ordinary Bedding shall be used for all rigid pipe unless wet conditions are encountered.

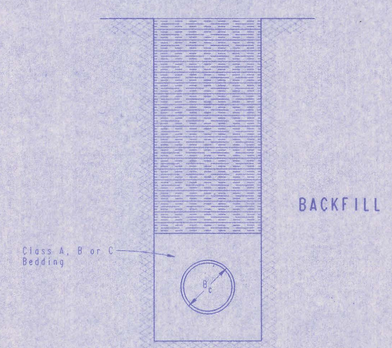
b. Class C Improved Bedding shall be used for wet conditions existing in the trench, as directed by the Engineer, at no additional cost to the Owner. The dimensions shall be equal to that required for "rock" excavation (see specifications).



BACKFILL TYPE I



BACKFILL TYPE II



BACKFILL TYPE III

TRENCH ZONE BACKFILLING

B_c = Outside Pipe Diameter

= Compacted Granular Backfill

= Uncompacted Earth Backfill

= Compacted Earth Backfill

Compacted Granular Backfill material shall be an approved sand material free from debris, organic material and stones with 100% passing the 3/4" sieve and not more than 15% passing a No. 200 sieve, to be jetted and mechanically vibrated into place and compacted to 90% density as determined by ASTM D1557.

Uncompacted Earth Backfill material may be natural soil free from large clods or stones, brush, roots more than 2 inches in diameter, debris, and junk. Flooding with water shall be provided as directed by the Engineer.

Compacted Earth Backfill shall consist of material existing prior to trenching or selected material as directed by the Engineer, and shall be compacted to 90% density as determined by ASTM D1557.

Backfill: Backfill material and compaction requirements shall conform to either Type I, Type II or Type III as specified in the plans. One years maintenance will be required on all backfill.

Backfilling Through Rock: Backfilling through rock shall be performed as specified in the paragraph Backfill above, except that the Pipe Zone is increased to provide eighteen (18) inches of cover over the pipe. When approved by the Engineer the remainder of the backfill may be excavated rock provided the excavated rock has been broken up so that earth and rock will thoroughly mix and not result in voids around the larger pieces of rock. Any excess rock remaining after the trench has been backfilled shall be removed or wasted as directed by the Engineer.

Backfilling Under Pavement: Backfilling under existing or proposed pavement shall be performed as Backfill Type I to a level of two (2) feet from the bottom of the pavement. The remainder of the trench shall be backfilled with selected material, sufficiently damp to be properly compacted in layers not exceeding six (6) inches in depth, compaction shall be performed with mechanical tampers and continued until a relative density of 95 percent of modified density, in conformance with ASTM D1557 is attained.

Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".

No.	Revision	By	Date

BACKFILL DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PLAN	CHECKED	BY	DATE
	CHECKED		

54-107

BUREAU OF PUBLIC SERVICES

CONSTRUCTION PLANS FOR

PART 3A/3B: GREENWICH HEIGHTS SANITARY SEWER LATERALS

(PART 3A: LATERALS 1 THRU 12)
(PART 3B: LATERALS 13 THRU 30)

SEPTEMBER, 1993

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP
SHEET NO. 3-6	PLATS
SHEET NO. 7	BASELINE KEY MAP
SHEET NO. 8	PRECAST MANHOLE DETAILS
SHEET NO. 9	CAST-IN-PLACE MANHOLE DETAILS
SHEET NO. 10-11	MISCELLANEOUS DETAILS
SHEET NO. 12-50 and 50A	PLAN/PROFILE
SHEET NO. 51	BACKFILL DETAILS
SHEET NO. 51A	PLAN/PROFILE LAT. 24A
SHEET NO. 51B	SEWER SERVICE SCHEDULE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

EPA PROJECT NO. C200691-02

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
PROJ. ENG. DATE

APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
DIRECTOR DATE

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS
CHAIRMAN DATE

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK
COUNTY CLERK DATE

MICHAEL D. SCHWARTZ LICENSED 10771 KANSAS PROFESSIONAL ENGINEER 10/18/93

DRAWING NAME: 34-92238 GNWCH SS TITLE
LOCATION COORDINATES: E4 DWG.#210
CENTER ANGLE:
ROTATION ANGLE:
DATE LAST WORKED ON: SEPT 09, 1993 CKD. BY: DATE:
SPECIAL INSTRUCTIONS: CKD. BY: DATE:
EN-RPJ



SEWER LATERAL SCHEDULE

LATERAL NO.	STATION TO STATION	MANHOLES	SHEET NO.
MAIN 6A	~~54+08.28 (BACK)~~ = 54+10.88 TO 23+28.70 ~~0+14.06 (AHEAD) TO 0+30.50~~	M6A-19 THRU M6A-22	12
MAIN 6A	~~0+30.50 TO 20+04.37~~ 23+28.70 TO 14+02.50	M6A-22 THRU M6A-26	13
MAIN 6A	~~20+04.37 TO 26+88.62~~ 14+02.50 TO 80+18.70	M6A-26 THRU M6A-29	14
MAIN 6A	~~26+88.62 TO 29+79.51~~ 80+18.70 TO 83+20.23	M6A-29 AND M6A-30	15
LATERAL NO. 1	D-E-L-E-T-E-D		
LATERAL NO. 2	0+00.00 TO ~~5+00.00~~ 3+51.06	M6A-20 AND 2-1	15
LATERAL NO. 2	~~5+00.00 TO 10+53.81~~ 3+51.06 TO 10+61.36	2-2 AND 2-3	16
LATERAL NO. 3	0+00.00 TO ~~4+44.79~~ 1+45.55	M6A-21 AND 3-1	16
LATERAL NO. 4	0+00.00 TO ~~3+21.00~~ 3+20.06	M6A-22 AND 4-1	16
LATERAL NO. 4	~~3+21.00 TO 6+52.45~~ 3+20.06 TO 6+52.65	4-1 AND 4-2	17
LATERAL NO. 4	~~6+52.45 TO 10+23.86~~ 6+52.65 TO 10+28.19	4-2 THRU 4-4	18
LATERAL NO. 5	0+00.00 TO ~~2+61.00~~ 2+62.50	4-2, 5-1 AND 5-2	19
LATERAL NO. 6	0+00.00 TO ~~2+06.87~~ 2+04.55	M6A-23, 6-1 AND 6-2	18
LATERAL NO. 7	0+00.00 TO ~~6+51.19~~ 6+50.04	M6A-24, 7-1 AND 7-2	20
LATERAL NO. 7	~~6+51.19 TO 8+13.16~~ 6+50.04 TO 8+12.80	7-2 AND 7-3	21
LATERAL NO. 7	~~8+13.16 TO 8+84.08~~ 8+13.80 TO 8+84.34	7-3 AND 7-4	19
LATERAL NO. 8	0+00.00 TO ~~1+39.00~~ 1+38.08	7-2 AND 8-1	21
LATERAL NO. 8	~~1+39.00 TO 3+81.00~~ 1+38.08 TO 3+81.80	8-1 AND 8-2	19
LATERAL NO. 9	0+00.00 TO ~~1+40.61~~ 1+45.55	M6A-25 AND 9-1	21
LATERAL NO. 10	0+00.00 TO ~~5+59.08~~ 5+67.33	M6A-27, 10-1 AND 10-2	21
LATERAL NO. 10	~~5+59.08 TO 8+73.08~~ 5+67.33 TO 8+81.51	10-2 AND 10-3	22
LATERAL NO. 11	0+00.00 TO ~~9+89.72~~ 9+89.57	M6A-29, 11-1 THRU 11-3	23
LATERAL NO. 12	D-E-L-E-T-E-D		
LATERAL NO. 13	~~0+15.00 TO 8+69.15~~ 0+00.00 TO 8+83.51	M6A-19, 13-1 THRU 13-3	24
LATERAL NO. 13	~~8+69.15 TO 17+64.94~~ 8+85.87 TO 17+78.95	13-3 THRU 13-6	25
LATERAL NO. 13	~~17+64.94 TO 27+10.80~~ 17+78.95 TO 27+25.19	13-6 THRU 13-9	26
LATERAL NO. 13	~~27+10.80 TO 38+42.10~~ 27+25.10 TO 38+56.21	13-9 THRU 13-12	27
LATERAL NO. 13	~~38+42.10 TO 49+73.40~~ 38+56.21 TO 49+91.12	13-12 THRU 13-15	28
LATERAL NO. 13	~~49+73.40 TO 56+61.27~~ 49+91.12 TO 57+27.10	13-15 THRU 13-18	29
LATERAL NO. 13	~~56+61.27 TO 62+69.77~~ 57+27.10 TO 63+30.76	13-18 THRU 13-20	30
LATERAL NO. 14	0+00.00 TO ~~11+26.02~~ 11+31.00	13-1, 14-1 THRU 14-3	31
LATERAL NO. 14	~~11+26.02 TO 21+40.00~~ 11+31.00 TO 10+71.18	14-3 THRU 14-7	32
LATERAL NO. 14	~~21+40.00 TO 32+76.61~~ 10+71.18 TO 22+18.97	14-8 THRU 14-12	33
LATERAL NO. 14	~~32+76.61 TO 41+20.00~~ 22+18.97 TO 32+08.24	14-12 THRU 14-15	34
LATERAL NO. 14	~~41+20.00 TO 49+85.95~~ 32+08.24 TO 42+86.18	14-16 THRU 14-18	35
LATERAL NO. 15	0+00.00 TO ~~10+00.00~~ 8+51.24	14-4, 15-1 THRU 15-3	36
LATERAL NO. 15	~~10+00.00 TO 15+13.07~~ 8+51.24 TO 13+33.13	15-4 AND 15-5	37
LATERAL NO. 16	0+00.00 TO ~~1+39.84~~ 1+38.44	15-1 AND 16-1	37
LATERAL NO. 17	0+00.00 TO ~~0+52.50~~ 0+62.94	14-5 AND 17-1	37
LATERAL NO. 18	0+00.00 TO ~~0+67.32~~ 0+63.00	14-7, 18-1 THRU 18-3	38
LATERAL NO. 19	0+00.00 TO ~~5+00.78~~ 5+90.20	14-4, 19-1 AND 19-2	39
LATERAL NO. 19	~~5+00.78 TO 8+12.83~~ 5+90.20 TO 8+11.89	19-2 THRU 19-4	40
LATERAL NO. 20	0+00.00 TO ~~10+55.12~~ 10+94.93	13-3, 20-1 THRU 20-5	41
LATERAL NO. 21	0+00.00 TO ~~0+45.00~~ 0+43.72	20-2 AND 21-1	50A
LATERAL NO. 21A	0+00.00 TO ~~0+45.00~~ 0+44.25	20-3 AND 21A-1	50A
LATERAL NO. 22	~~0+20.00 TO 10+08.06~~ 0+00.00 TO 11+20.56	13-5, 22-1 THRU 22-4	42
LATERAL NO. 22	~~10+98.96 TO 18+58.00~~ 11+20.56 TO 19+21.31	22-4 THRU 22-7	43
LATERAL NO. 22	~~18+58.00 TO 27+37.24~~ 19+21.31 TO 28+11.31	22-8 THRU 22-10	44
LATERAL NO. 23	0+00.00 TO ~~4+76.50~~ 4+77.35	22-6, 23-1 AND 23-2	45
LATERAL NO. 23	~~4+76.50 TO 8+20.78~~ 4+77.35 TO 8+30.14	23-2 THRU 23-4	50A
LATERAL NO. 24	0+00.00 TO ~~9+43.10~~ 9+42.29	23-2, 24-1 THRU 24-3	46
LATERAL NO. 24	~~9+43.10 TO 11+31.09~~ 9+42.29 TO 11+29.99	24-3 AND 24-4	47
LATERAL NO. 25	~~0+20.00 TO 8+67.18~~ 0+00.00 TO 8+89.15	13-7, 25-1 THRU 25-4	47
LATERAL NO. 26	0+00.00 TO ~~8+30.81~~ 8+30.67	25-3 AND 26-1	48
LATERAL NO. 26	~~8+30.81 TO 8+80.75~~ 8+30.67 TO 8+80.41	26-1 AND 26-2	50A
LATERAL NO. 27	0+00.00 TO ~~9+28.24~~ 9+28.66	13-18, 27-1 THRU 27-3	49
LATERAL NO. 27	~~9+28.24 TO 18+94.00~~ 9+28.66 TO 18+92.01	27-3 THRU 27-6	50
LATERAL NO. 28	0+00.00 TO ~~0+23.79~~ 0+24.64	22-2 AND 28-1	44
LATERAL NO. 29	0+00.00 TO ~~0+29.98~~ 0+30.36	22-3 AND 29-1	44
LATERAL NO. 30	0+00.00 TO ~~1+35.00~~ 1+32.85	22-2A AND 30-1	44
LATERAL NO. 24A	0+00.00 TO 1+29.92	24-3 AND 24A-1	51A

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
_____ CONST. ENG. _____ DATE

FOR GENERAL NOTES SEE SHEET NO. 10

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

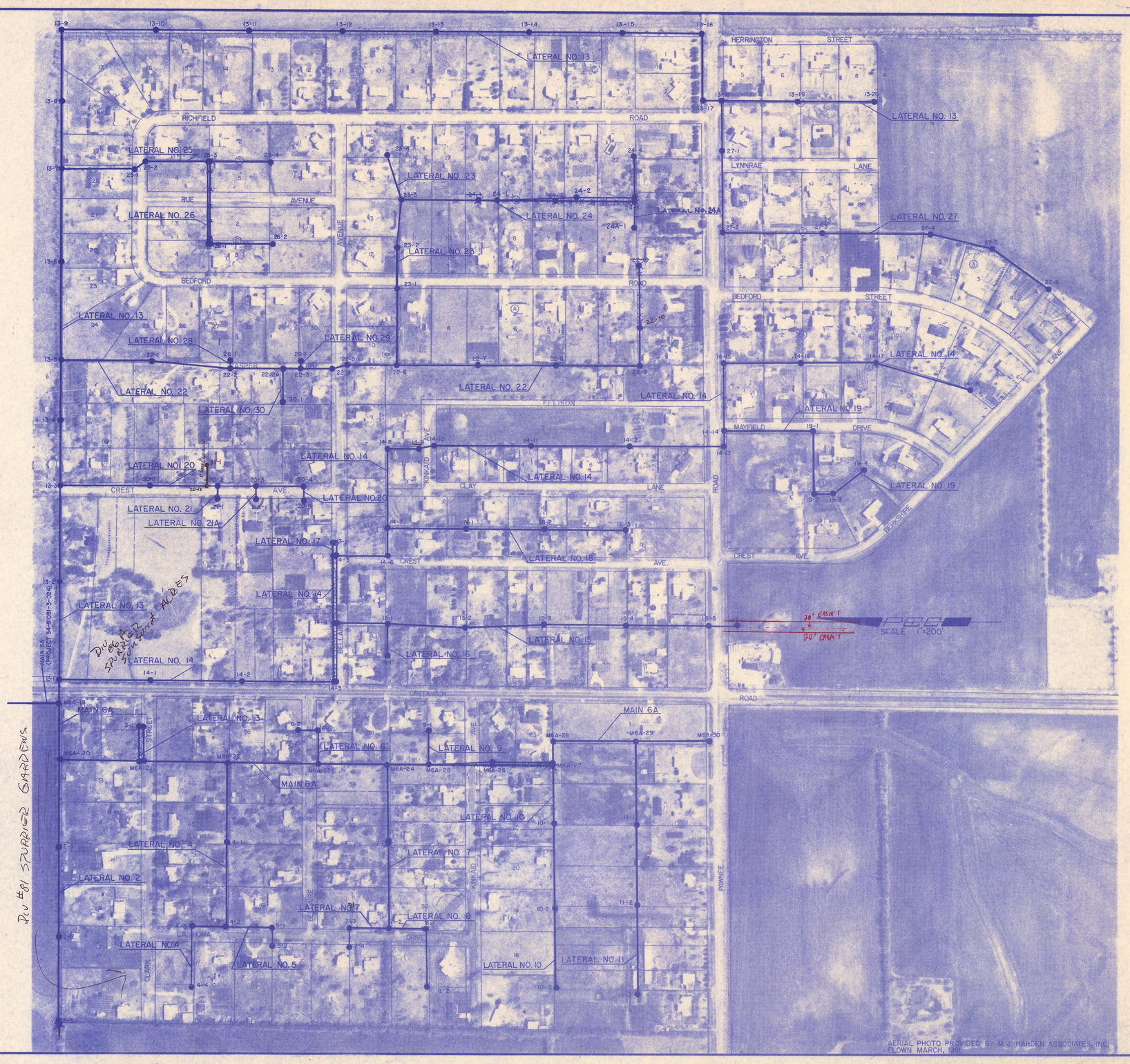
KEY MAP

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK | Job No. 8105I-10 | Sht. 2 of 51
Drawn by SCSM | Date AUGUST 1981

PART 3A/3B



DU #81 SPURGER GARDENS

DU #82 SPURGER GARDENS

SEWER LATERAL SCHEDULE

LATERAL NO.	STATION TO STATION	MANHOLES	SHEET NO.
MAIN 6A	~~54+08.28 (BACK)~~ = 54+10.88 TO 23+28.70 ~~0+14.06 (AHEAD) TO 0+30.00~~	M6A-19 THRU M6A-22	12
MAIN 6A	~~9+30.00 TO 20+04.37~~ 9+28.75 TO 14+02.50	M6A-22 THRU M6A-26	13
MAIN 6A	~~20+04.37 TO 26+88.82~~ 20+02.90 TO 26+18.70	M6A-26 THRU M6A-29	14
MAIN 6A	~~26+88.82 TO 29+79.61~~ 26+18.70 TO 29+26.23	M6A-29 AND M6A-30	15
LATERAL NO. 1	D-E-L-E-T-E-D		
LATERAL NO. 2	0+00.00 TO ~~5+00.00~~ 3+51.06	M6A-20 AND 2-1	15
LATERAL NO. 2	~~5+00.00 TO 10+53.81~~ 3+51.06 TO 10+41.47	2-2 AND 2-3	16
LATERAL NO. 3	0+00.00 TO ~~1+44.79~~ 1+45.55	M6A-21 AND 3-1	16
LATERAL NO. 4	0+00.00 TO ~~3+21.00~~ 3+20.06	M6A-22 AND 4-1	16
LATERAL NO. 4	~~3+21.00 TO 6+52.45~~ 3+52.06 TO 6+52.05	4-1 AND 4-2	17
LATERAL NO. 4	~~6+52.45 TO 10+23.86~~ 6+52.05 TO 10+28.13	4-2 THRU 4-4	18
LATERAL NO. 5	0+00.00 TO ~~2+61.00~~ 2+62.50	4-2, 5-1 AND 5-2	19
LATERAL NO. 6	0+00.00 TO ~~2+06.87~~ 2+04.55	M6A-23, 6-1 AND 6-2	18
LATERAL NO. 7	0+00.00 TO ~~6+51.10~~ 6+50.04	M6A-24, 7-1 AND 7-2	20
LATERAL NO. 7	~~6+51.10 TO 8+13.10~~ 6+80.84 TO 8+12.80	7-2 AND 7-3	21
LATERAL NO. 7	~~8+13.10 TO 8+84.08~~ 8+13.80 TO 8+84.34	7-3 AND 7-4	19
LATERAL NO. 8	0+00.00 TO ~~1+39.00~~ 1+30.08	7-2 AND 8-1	21
LATERAL NO. 8	~~1+39.00 TO 3+81.00~~ 1+30.08 TO 3+81.80	8-1 AND 8-2	19
LATERAL NO. 9	0+00.00 TO ~~1+40.64~~ 1+45.93	M6A-25 AND 9-1	21
LATERAL NO. 10	0+00.00 TO ~~5+59.08~~ 5+67.33	M6A-27, 10-1 AND 10-2	21
LATERAL NO. 10	~~5+59.08 TO 8+73.08~~ 5+67.33 TO 8+81.93	10-2 AND 10-3	22
LATERAL NO. 11	0+00.00 TO ~~0+89.72~~ 0+89.57	M6A-29, 11-1 THRU 11-3	23
LATERAL NO. 12	D-E-L-E-T-E-D		
LATERAL NO. 13	~~0+15.00 TO 8+69.15~~ 0+00.00 TO 8+83.51	M6A-19, 13-1 THRU 13-3	24
LATERAL NO. 13	~~8+69.15 TO 17+64.94~~ 8+83.51 TO 17+78.92	13-3 THRU 13-6	25
LATERAL NO. 13	~~17+64.94 TO 27+10.80~~ 17+78.89 TO 27+25.10	13-6 THRU 13-9	26
LATERAL NO. 13	~~27+10.80 TO 38+42.10~~ 27+25.10 TO 38+50.51	13-9 THRU 13-12	27
LATERAL NO. 13	~~38+42.10 TO 49+73.40~~ 38+50.51 TO 49+61.19	13-12 THRU 13-15	28
LATERAL NO. 13	~~49+73.40 TO 56+61.27~~ 49+61.19 TO 57+27.10	13-15 THRU 13-18	29
LATERAL NO. 13	~~56+61.27 TO 62+69.77~~ 57+27.10 TO 63+30.70	13-18 THRU 13-20	30
LATERAL NO. 14	0+00.00 TO ~~11+26.02~~ 11+31.00	13-1, 14-1 THRU 14-3	31
LATERAL NO. 14	~~11+26.02 TO 21+40.00~~ 11+31.00 TO 10+11.18	14-3 THRU 14-7	32
LATERAL NO. 14	~~21+40.00 TO 32+76.61~~ 10+11.18 TO 22+18.97	14-8 THRU 14-12	33
LATERAL NO. 14	~~32+76.61 TO 41+20.00~~ 22+18.97 TO 30+05.34	14-12 THRU 14-15	34
LATERAL NO. 14	~~41+20.00 TO 49+86.95~~ 30+05.34 TO 39+86.16	14-16 THRU 14-18	35
LATERAL NO. 15	0+00.00 TO ~~10+00.00~~ 8+51.24	14-4, 15-1 THRU 15-3	36
LATERAL NO. 15	~~10+00.00 TO 15+12.07~~ 8+51.24 TO 13+33.13	15-4 AND 15-2	37
LATERAL NO. 16	0+00.00 TO ~~1+39.84~~ 1+38.44	15-1 AND 16-1	37
LATERAL NO. 17	0+00.00 TO ~~0+52.50~~ 0+82.94	14-5 AND 17-1	37
LATERAL NO. 18	0+00.00 TO ~~0+67.32~~ 0+63.00	14-7, 18-1 THRU 18-3	38
LATERAL NO. 19	0+00.00 TO ~~5+00.78~~ 5+90.20	14-4, 19-1 AND 19-2	39
LATERAL NO. 19	~~5+00.78 TO 8+12.83~~ 5+90.20 TO 8+11.82	19-2 THRU 19-4	40
LATERAL NO. 20	0+00.00 TO ~~10+55.12~~ 10+54.93	13-3, 20-1 THRU 20-5	41
LATERAL NO. 21	0+00.00 TO ~~0+45.00~~ 0+43.72	20-2 AND 21-1	50A
LATERAL NO. 21A	0+00.00 TO ~~0+45.00~~ 0+44.25	20-3 AND 21A-1	50A
LATERAL NO. 22	~~0+20.00 TO 10+08.06~~ 0+00.00 TO 11+20.96	13-5, 22-1 THRU 22-4	42
LATERAL NO. 22	~~10+08.96 TO 18+50.00~~ 11+20.96 TO 19+21.21	22-4 THRU 22-7	43
LATERAL NO. 22	~~18+50.00 TO 27+37.24~~ 19+21.21 TO 28+11.31	22-8 THRU 22-10	44
LATERAL NO. 23	0+00.00 TO ~~4+76.50~~ 4+77.35	22-6, 23-1 AND 23-2	45
LATERAL NO. 23	~~4+76.50 TO 8+29.78~~ 4+77.35 TO 8+30.74	23-2 THRU 23-4	50A
LATERAL NO. 24	0+00.00 TO ~~9+43.10~~ 9+42.20	23-2, 24-1 THRU 24-3	46
LATERAL NO. 24	~~9+43.10 TO 11+31.00~~ 9+42.20 TO 11+22.00	24-3 AND 24-4	47
LATERAL NO. 25	~~0+20.00 TO 8+67.18~~ 0+00.00 TO 8+89.15	13-7, 25-1 THRU 25-4	47
LATERAL NO. 26	0+00.00 TO ~~3+30.81~~ 3+30.57	25-3 AND 26-1	48
LATERAL NO. 26	~~3+30.81 TO 5+80.76~~ 3+30.57 TO 5+89.24	26-1 AND 26-2	50A
LATERAL NO. 27	0+00.00 TO ~~9+28.24~~ 9+28.66	13-18, 27-1 THRU 27-3	49
LATERAL NO. 27	~~9+28.24 TO 18+94.00~~ 9+28.66 TO 19+92.50	27-3 THRU 27-6	50
LATERAL NO. 28	0+00.00 TO ~~0+23.79~~ 0+24.64	22-2 AND 28-1	44
LATERAL NO. 29	0+00.00 TO ~~0+29.98~~ 0+30.36	22-3 AND 29-1	44
LATERAL NO. 30	0+00.00 TO ~~1+35.00~~ 1+32.85	22-2A AND 30-1	40
LATERAL NO. 24A	0+00.00 TO 1+20.92	24-3 AND 24A-1	51A

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
CONST. ENG. DATE

13 88 7 75 C.I.
1 55 5 88 C.W.
89 35 N.L. Per Key Publish #
(350 Feet Per Inch)

FOR GENERAL NOTES SEE SHEET NO. 10

MICHAEL D. SCHOWALTER LICENSED 0778 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

KEY MAP

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

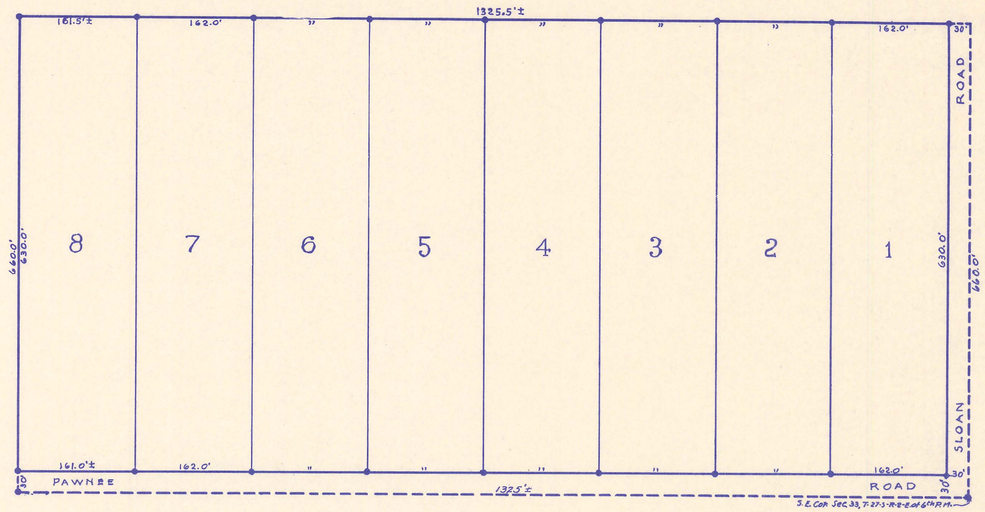
Designed by MDS, MDK	Job No. 81051-10	Sht. 2	of 51
Drawn by SC, SM	Date AUGUST 1981		

AERIAL PHOTO PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981

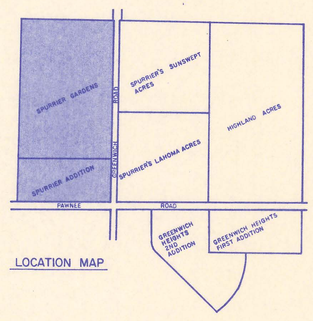
PART 3A/3B

SPURRIER ADDITION

TO SEDGWICK COUNTY. KANSAS.



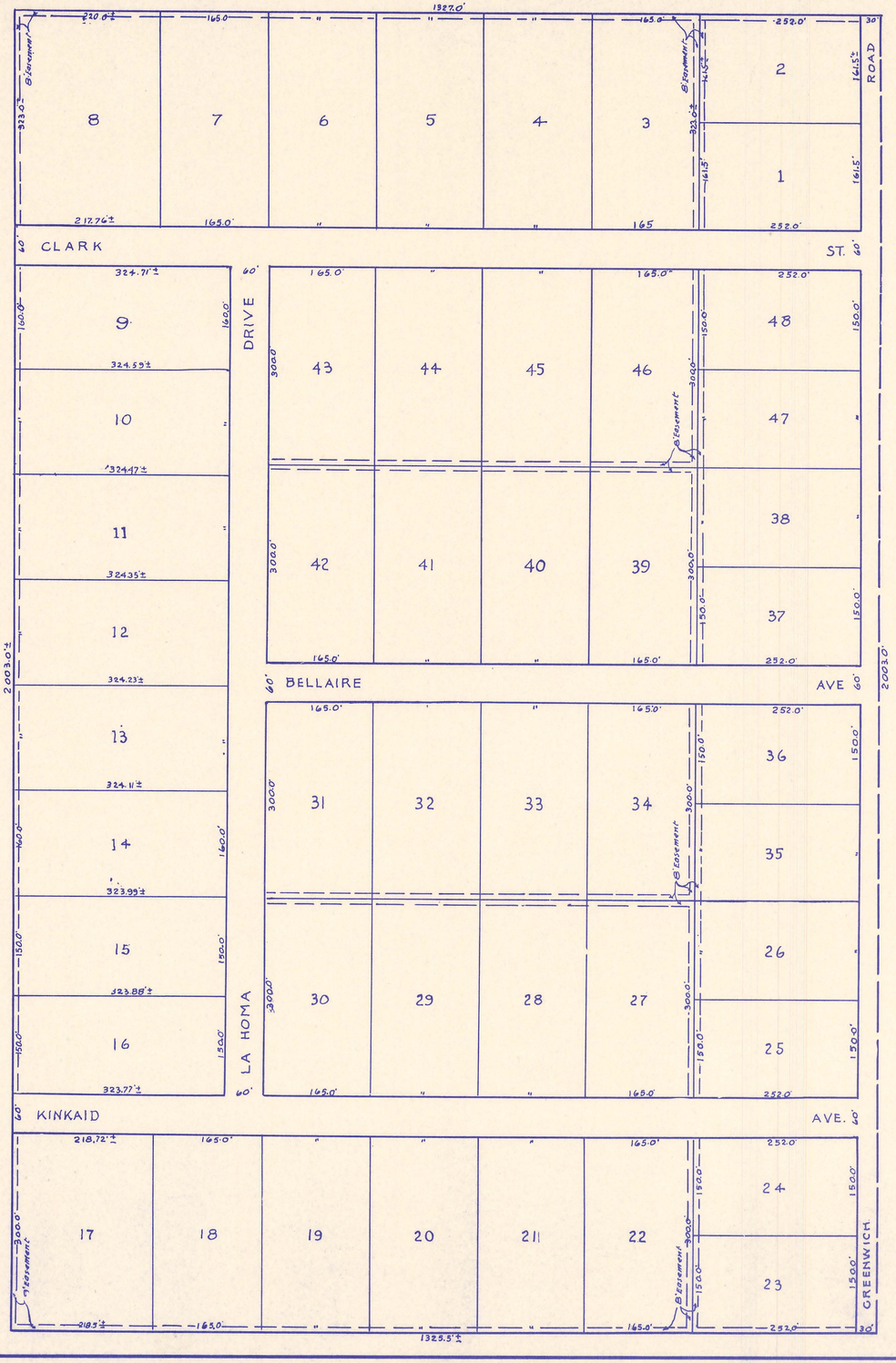
1 in = 100 ft
● = Iron



LOCATION MAP

SPURRIER GARDENS

SEDGWICK COUNTY, KANSAS.



Scale 1 in = 100 ft.
● = Iron.

THESE PLATS ARE REPRODUCED HERE FOR INFORMATION PURPOSES ONLY AND ARE NOT PART OF THE DESIGN PLAN.

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-31080	R.I	4/31

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PLAT MAP

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

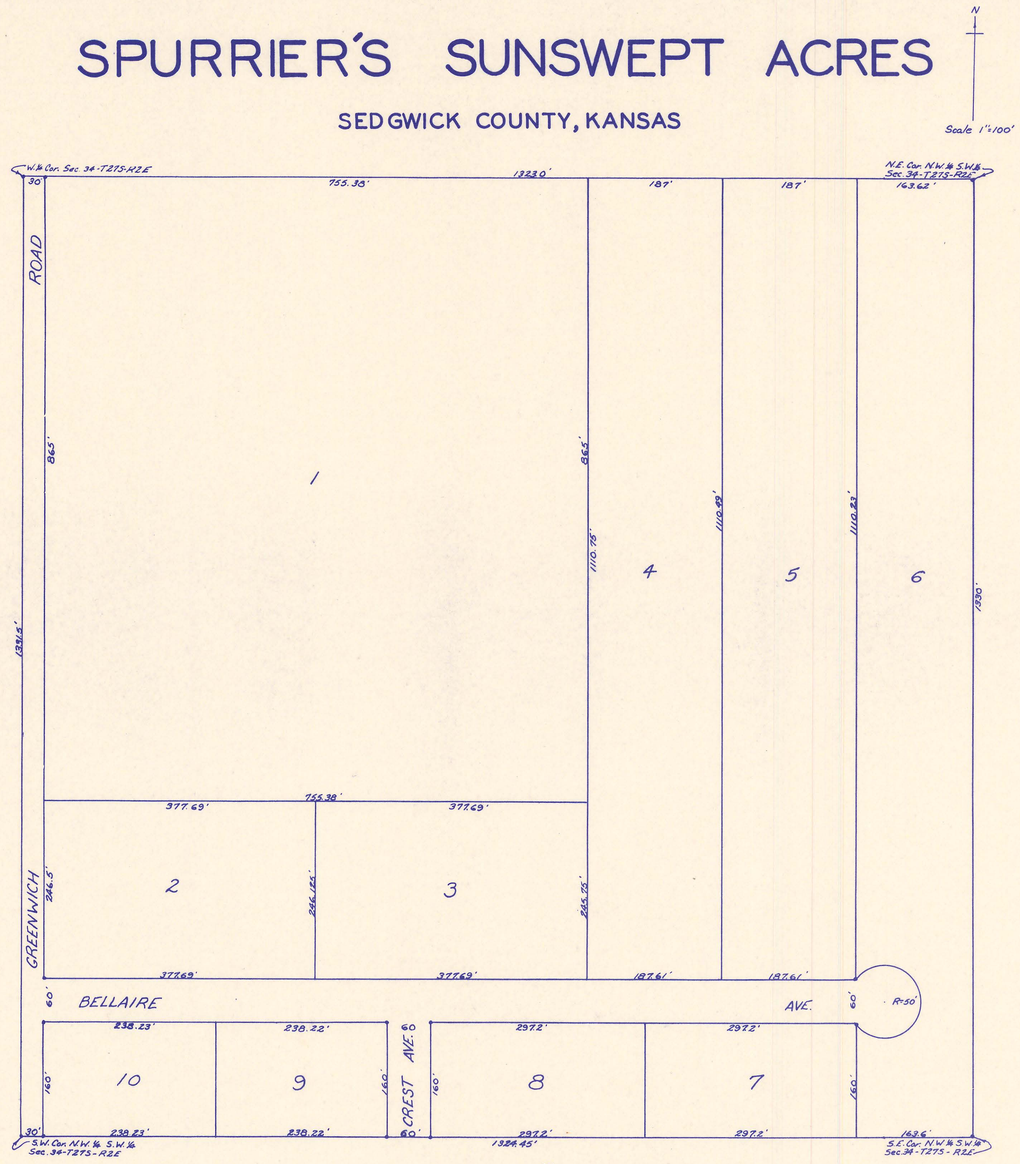
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

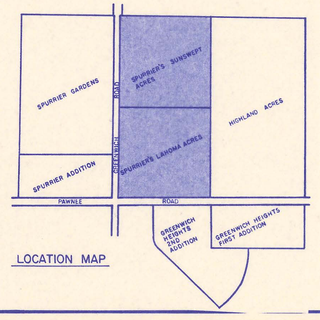
Designed by		Job No. 81051-10	Sht. 3 of 51
Drawn by		Date Aug. 1981	

PART 3A

SPURRIER'S SUNSWEPT ACRES

SEDGWICK COUNTY, KANSAS

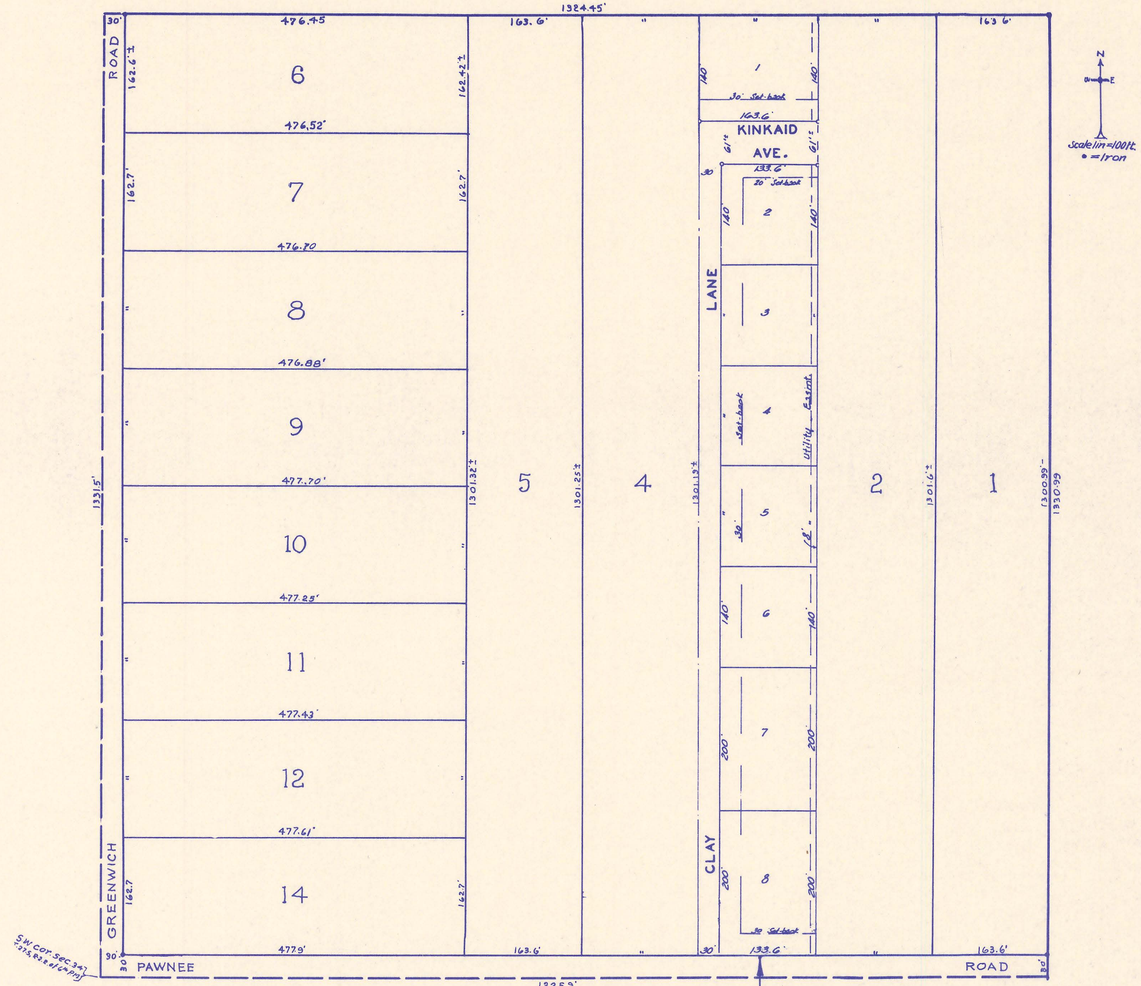




LOCATION MAP

SPURRIER'S LA HOMA ACRES

SEDGWICK COUNTY, KANSAS.



NORTONS REPLAT OF LOT 3, SPURRIER'S LA HOMA ACRES

THESE PLATS ARE REPRODUCED HERE FOR INFORMATION PURPOSES ONLY AND ARE NOT PART OF THE DESIGN PLAN.

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/91

PLAT MAP

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

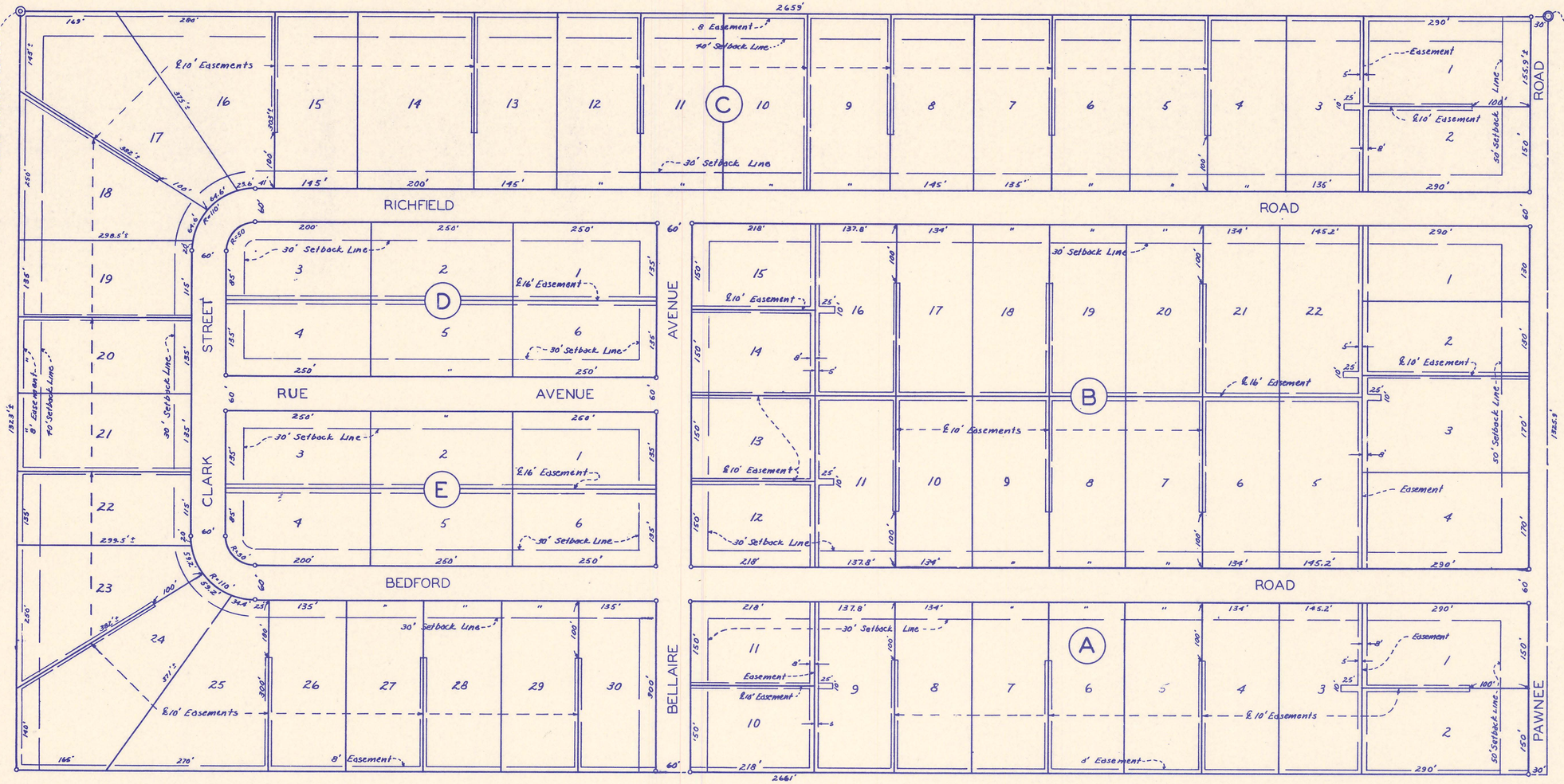
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

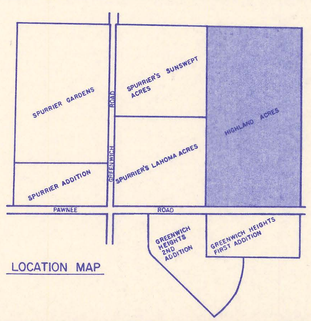
Designed by	Job No. 81051-10	Sht. 4 of 51
Drawn by	Date Aug. 1981	

PART 3B

HIGHLAND ACRES

SEDGWICK COUNTY, KANSAS





LOCATION MAP

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No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PLAT MAP

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

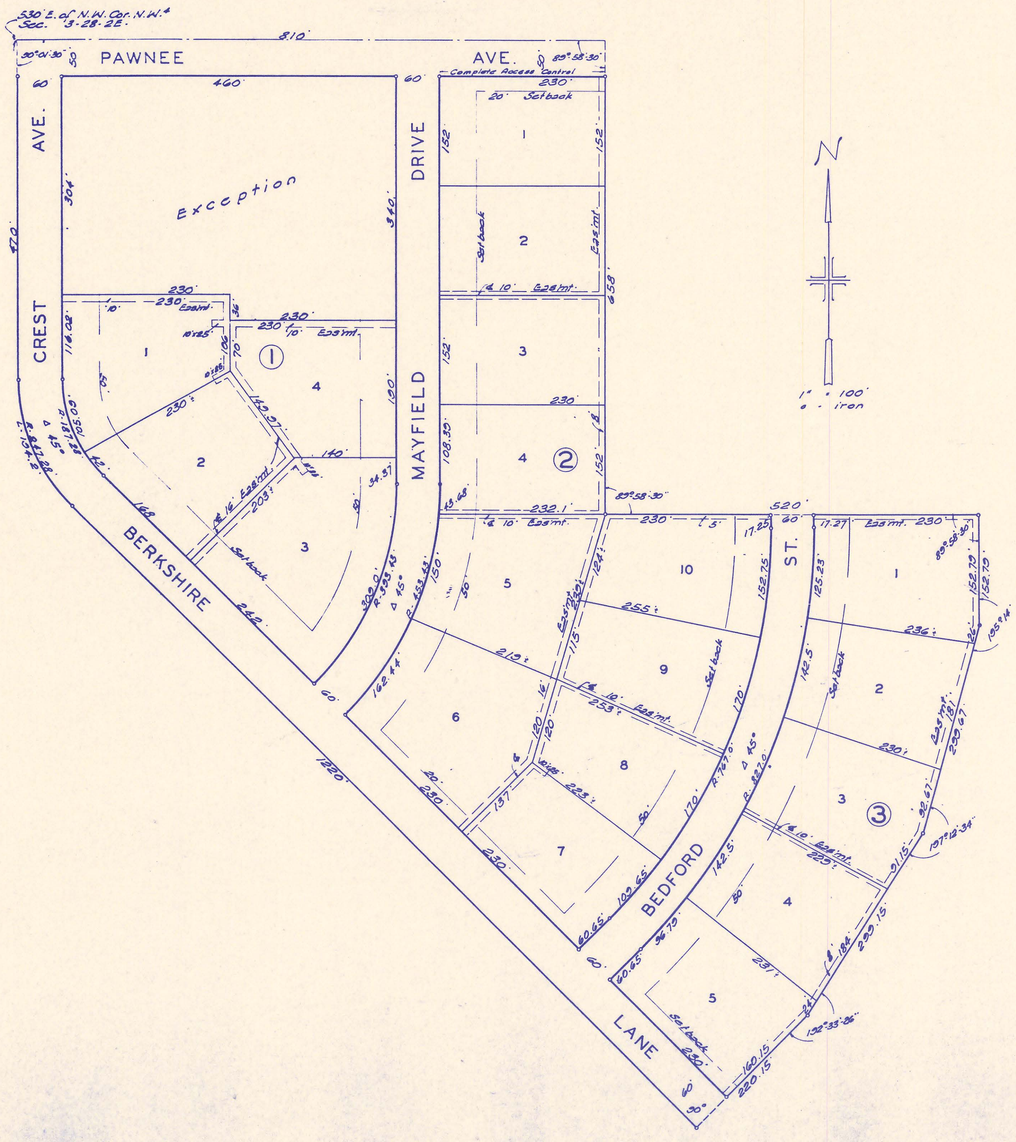
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Job No. 81051-10	Sht. 5 of 51
Drawn by	Date Aug. 1981	

PART 3B

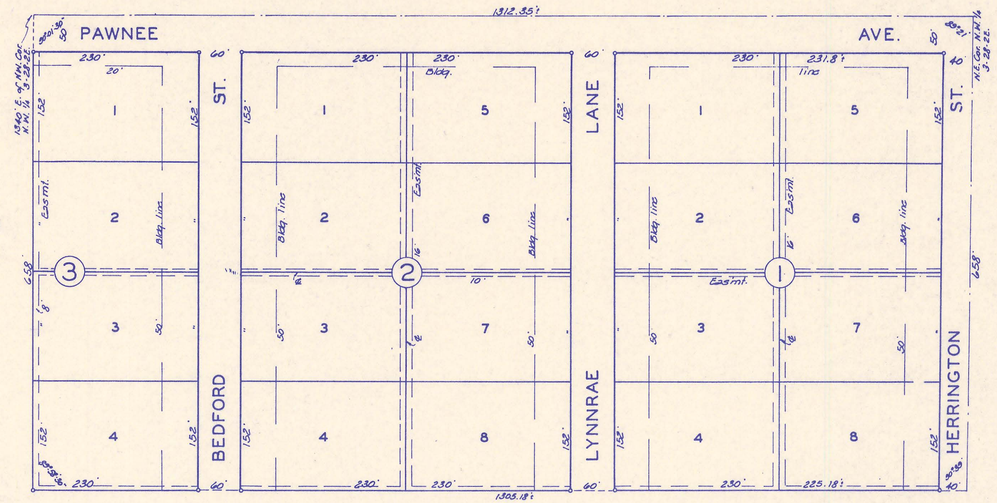
GREENWICH HEIGHTS 2ND. ADDITION

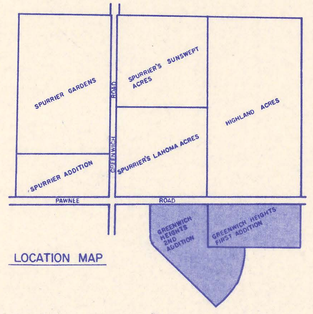
SEDGWICK COUNTY KANSAS



GREENWICH HEIGHTS FIRST ADDITION

SEDGWICK COUNTY, KANSAS.





LOCATION MAP

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No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-31080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PLAT MAP

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Job No. 81051-10	Sht. 6 of 51
Drawn by	Date Aug, 1981	

PART 3B

Datum Bench Mark-RP 6pk. in HLP
48' W & 40' S of SW cor. Sec. 27
T27S, R2E. Elev-1344.585 (MSL)

SCALE 1"=200'

SECTION CORNER REFERENCE TIES

W 1/4 COR., SEC. 34
3/4" IRON PIPE
36.19' E, NAIL AND SHINER IN NORTHEAST FACE 18" ELM
82.22' SW, NAIL AND SHINER IN SOUTHEAST FACE 30" ELM
29.47' W, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE

SW COR., SEC. 34
5/8" REBAR
53.12' NE, NAIL AND BOTTLECAP IN NORTHWEST FACE UTILITY POLE
64.42' SE, NAIL AND BOTTLECAP IN SOUTHWEST FACE UTILITY POLE
56.33' NW, NAIL AND BOTTLECAP IN NORTHEAST FACE UTILITY POLE

S 1/4 COR., SEC. 34
1/2" IRON PIPE
39.72' S, NAIL AND BOTTLECAP IN NORTHWEST FACE FENCE CORNER POST
42.92' SW, CHISELED "V" IN TOP WEST END 24" RCP
42.37' NNW, NAIL AND BOTTLECAP IN EAST FACE UTILITY POLE

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

BASELINE KEY MAP

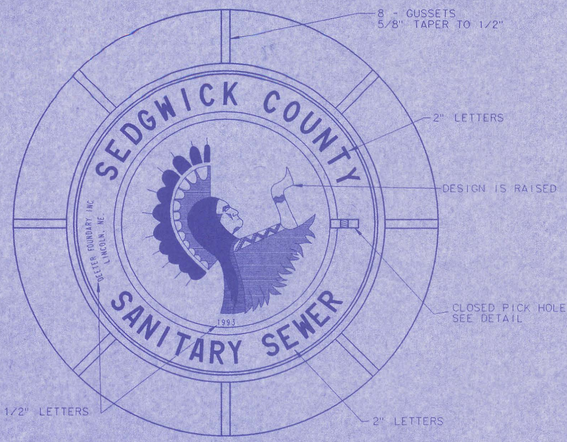
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

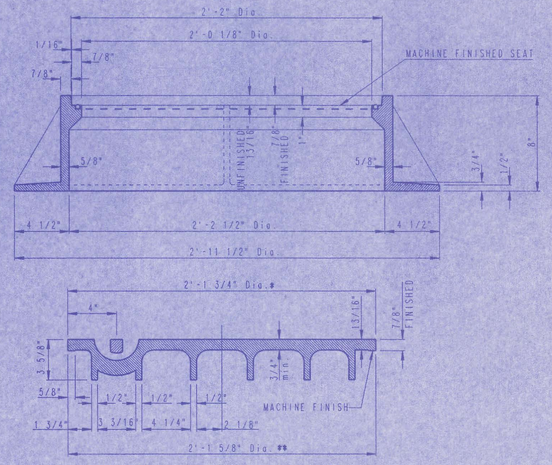
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK | Job No. 81051-10 | Sht. 7 of 51
Drawn by SM | Date Aug. 1981

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PART 3A/3B





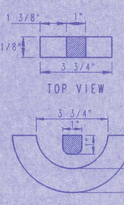
*OUTSIDE DIA. TOP OF COVER
**OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME AND COVER

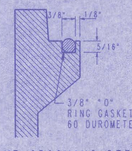
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES

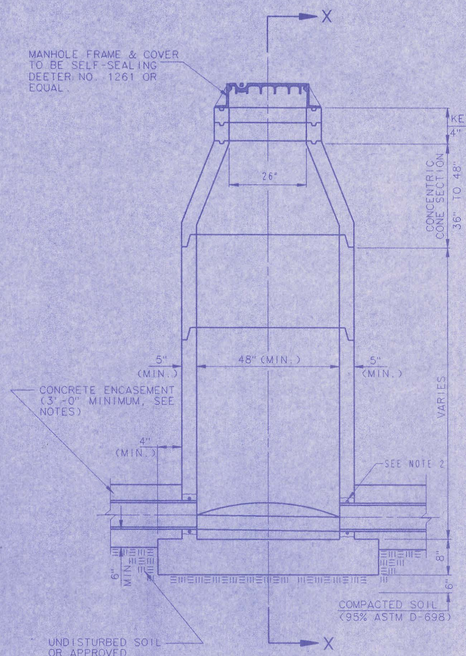
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 35B, OR BETTER.
2. CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS AND ALL BURRS SHALL BE GROUND SMOOTH. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY ± 1/16" PER FOOT.
3. NO OTHER LETTERING OR MARKINGS OTHER THAN THOSE DETAILED ON PLAN WILL BE PERMITTED ON CASTINGS.
4. CASTINGS MUST BE DOMESTICALLY MANUFACTURED IN THE UNITED STATES OF AMERICA.
5. THE FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
6. MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY INC., NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. =430 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
7. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
8. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED CONTINUOUS "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL BE FACTORY INSTALLED IN THE MANHOLE FRAME WITH 100% SILICON SEALANT-DOW CORNING OR EQUAL.



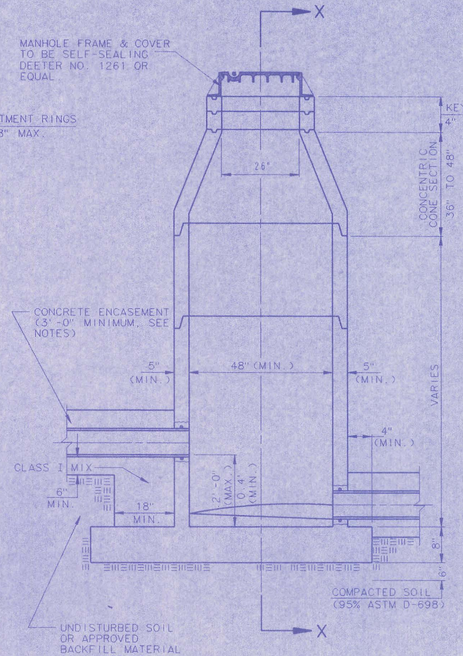
PICK HOLE DETAIL



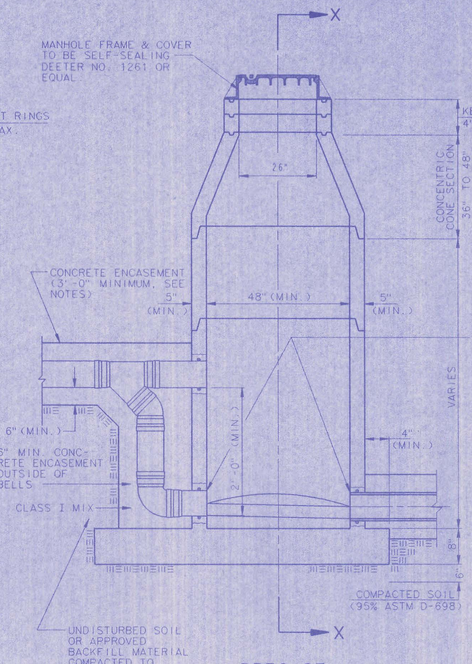
FRAME GROOVING DETAIL
(TYPICAL ALL MANHOLES)



PRECAST
STANDARD MANHOLE
TYPE "A"

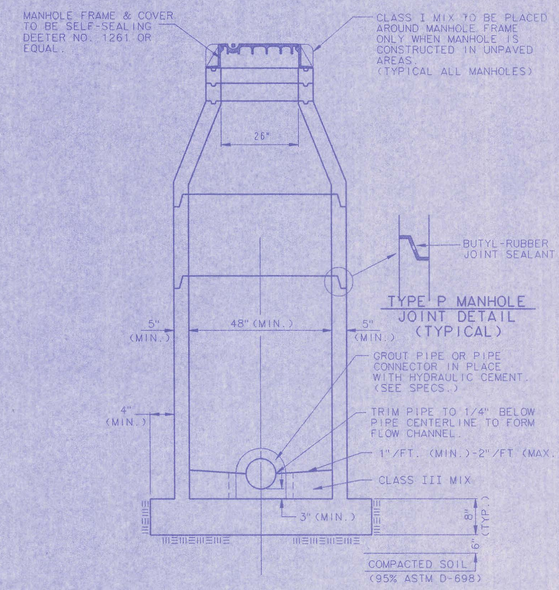


PRECAST
INSIDE DROP MANHOLE
TYPE "B"

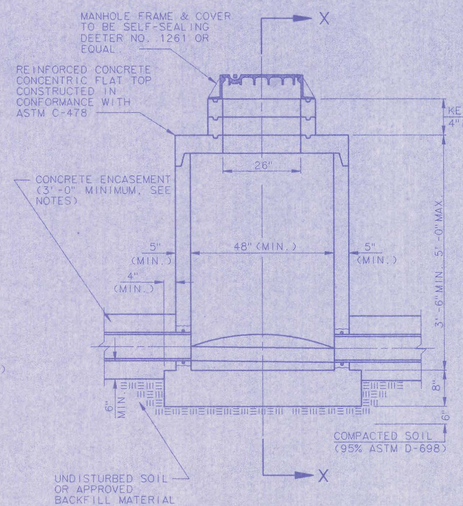


PRECAST
OUTSIDE DROP MANHOLE
TYPE "C"

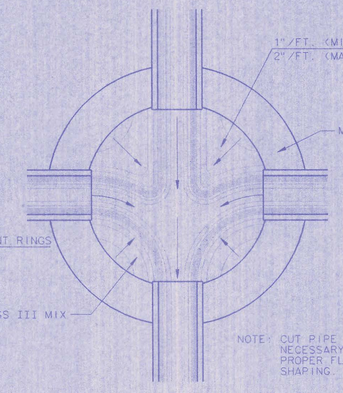
NOTE:
TOP OF BOTTOM PIPE ON OUTSIDE DROP SHALL ALWAYS BE SET 0.1 FEET HIGHER THAN TOP OF PIPE CARRYING FLOW OUT OF THE MANHOLE.



SECTION X
(TYPICAL)



PRECAST
SHALLOW MANHOLE
TYPE "D"



TYPICAL MANHOLE
FLOOR SHAPING

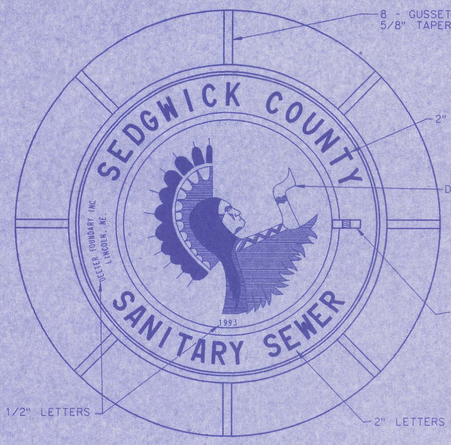
PRECAST MANHOLE NOTES

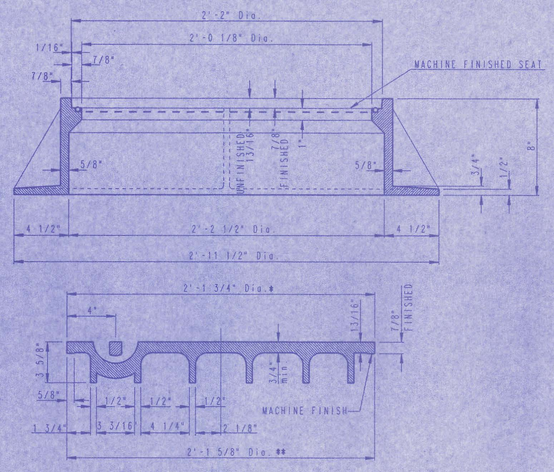
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL OVEREXCAVATE TO A SUITABLE SUBGRADE CONDITION AND CRUSHED ROCK SHALL BE PLACED AND COMPACTED TO THE REQUIRED GRADE.
2. "ALOK" OR APPROVED EQUAL FLEXIBLE WATER-STOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL. SEWER PIPES EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CLASS I CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
3. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
4. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
5. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
6. 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.
7. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5' INSIDE DIAMETER (MIN.).
8. INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.
9. MANHOLES SHALL BE SUPPLIED WITH PRECAST MONOLITHICALLY CAST BASE SECTIONS UNLESS OTHERWISE APPROVED. ALL PRECAST CONCRETE MANHOLE SECTIONS AND BASES SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS.
10. WHERE MANHOLE STUBS ARE SHOWN ON THE PLANS, THE STUB SHALL EXTEND AT LEAST 5 FEET FROM THE INSIDE WALL OF THE MANHOLE WITH A MINIMUM OF 3 FEET OF CONCRETE ENCASEMENT. THE CONTRACTOR SHALL PREVENT ANY CONCRETE FROM BEING WITHIN 1 FOOT OF THE END OF THE STUB.
    4" STUBS SHALL BE SET AT 2.0% GRADE.
    6" STUBS SHALL BE SET AT 1.0% GRADE.
11. MANHOLE SECTIONS SHALL BE SUPPLIED WITH RECESSED LIFTING EYES. LIFTING EYE RECESSES SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.

No.	Revision	By	Date
4	Precast Bases, Precast Manhole Notes, Manhole Frame and Cover Notes, Keyed Adjustment Rings, and Class I mix of concrete encasement and field cap.	RJ	8/27/93
3	All Manholes self-sealing/MH Cover	RJ	1/25/93
2	Modified pipe connection note	RJ	6/01/92
1	Manhole Frame and Cover Note 1	RJ	7/16/91

PRECAST
MANHOLE DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER





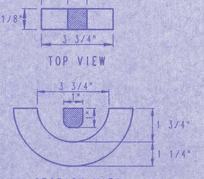
*OUTSIDE DIA. TOP OF COVER
**OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME AND COVER

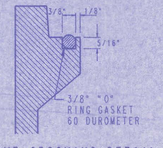
(TOTAL WEIGHT = 430 LBS.)

MANHOLE FRAME AND COVER NOTES:

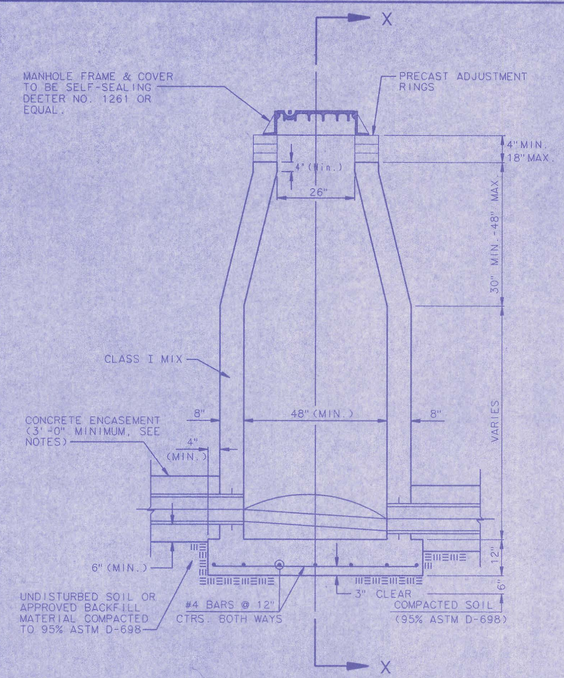
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7. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
8. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
9. THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER.



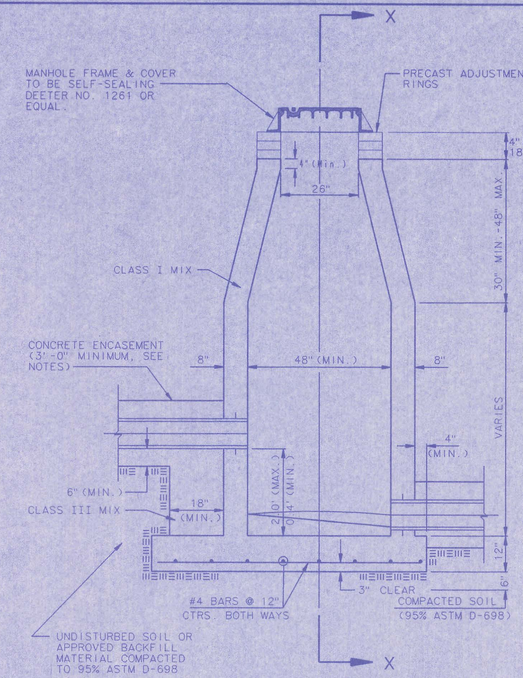
PICK HOLE DETAIL



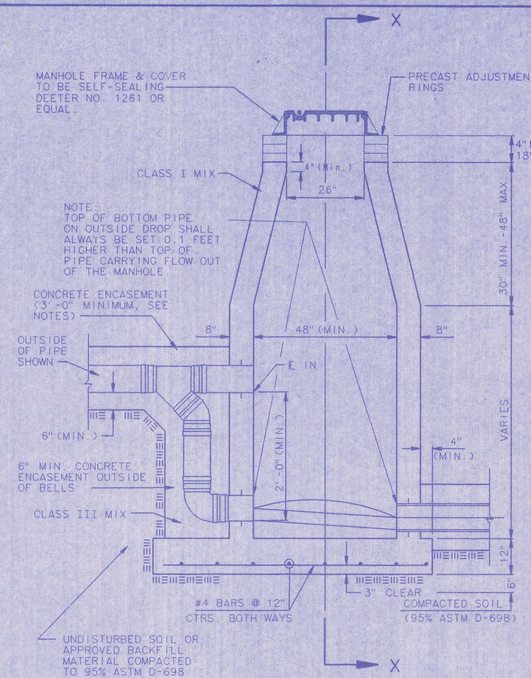
FRAME GROOVING DETAIL
(TYPICAL ALL MANHOLES)



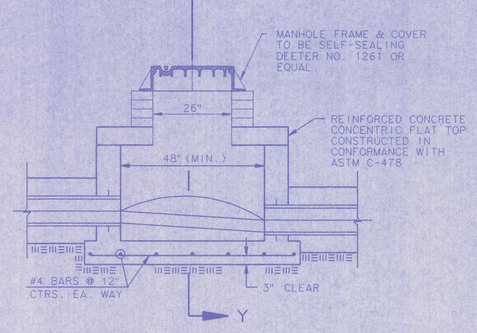
CAST IN PLACE
STANDARD MANHOLE
TYPE "A"



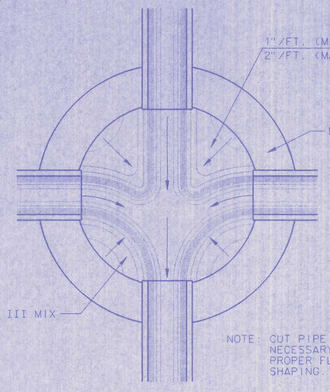
CAST IN PLACE
DROP MANHOLE
TYPE "B"



CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "C"

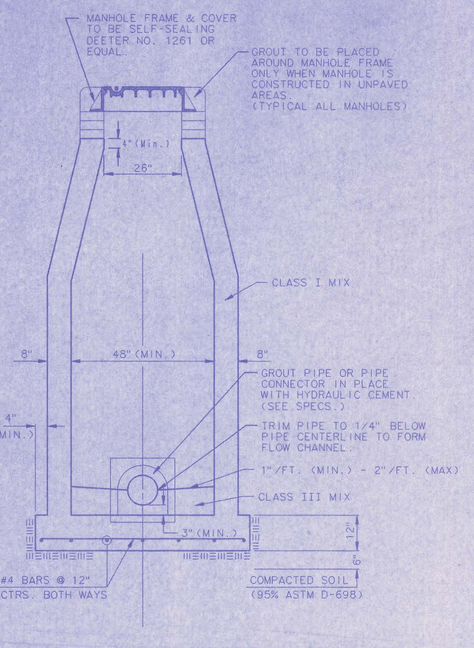


SHALLOW MANHOLE
TYPE "D"

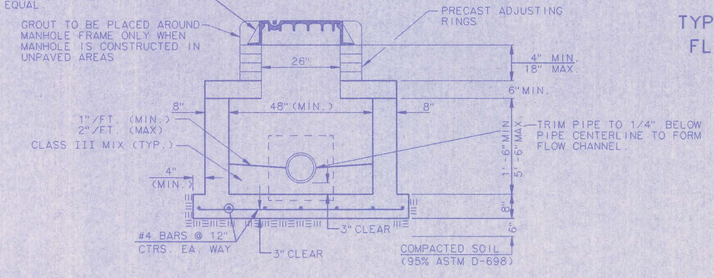


NOTE: CUT PIPE WHERE NECESSARY TO ALLOW PROPER FLOOR SHAPING.

TYPICAL MANHOLE
FLOOR SHAPING



SECTION X
(TYPICAL)



SECTION Y

CAST-IN-PLACE MANHOLE NOTES

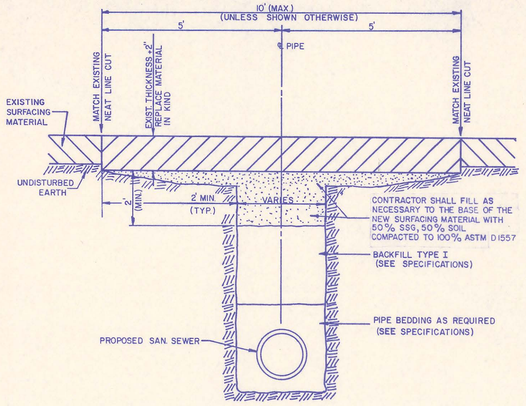
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. WHEN OPENINGS ARE CUT IN MANHOLE WALLS FOR PIPE, THE PIPE OR PIPE CONNECTOR SHALL BE GROUTED IN PLACE WITH HYDRAULIC CEMENT. EXTERIOR OF COMPLETED CONNECTION SHALL BE SEALED WITH APPROVED COATINGS.
4. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATIONS WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
5. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN ABS COMPOSITE PIPE OR PVC PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
6. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING OR BRICK MASONRY COLLAR AND THE MANHOLE FRAME.
7. GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
8. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
9. MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5' INSIDE DIAMETER.

No.	Revision	By	Date
3	All Manholes: Self-sealing/ MH Cover	RJ	1/25/93
2	Modified Pipe connection note and MH Note 3	RJ	6/01/92
1	Manhole Frame and Cover Note 1	RJ	7/16/91

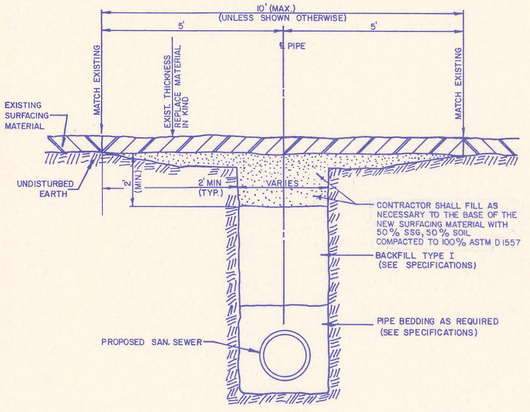
CAST-IN-PLACE MANHOLE DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

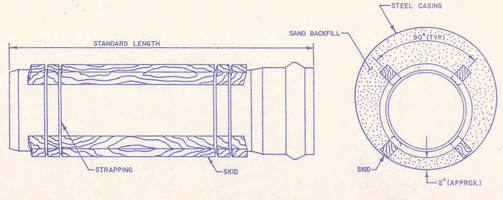
EX-57



PAVED ROAD OR DRIVE - REMOVAL AND REPLACEMENT

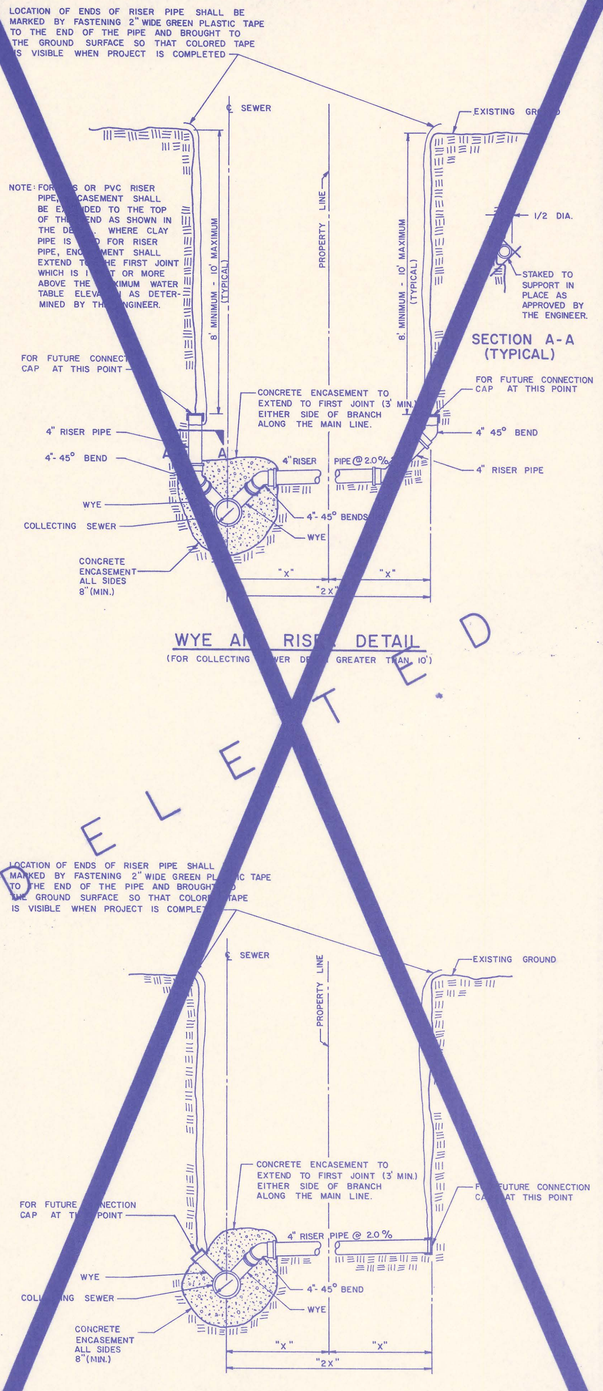


UNPAVED ROAD OR DRIVE - REMOVAL AND REPLACEMENT



STEEL ENCASEMENT DETAIL

(FOR SEWER PIPE 12" AND SMALLER)



WYE AND RISER DETAIL

(FOR COLLECTING SEWER DEPTH GREATER THAN 10')

WYE AND RISER DETAIL

(FOR COLLECTING SEWER DEPTH LESS THAN 10')

ELECTRONIC COPY

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE USGS DATUM.
2. AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 687-2470 TO REQUEST THAT ANY EXISTING BURIED UTILITIES WITHIN THE PROJECT AREA BE FLAGGED.
3. THE BURIED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
4. AT LEAST 24 HOURS BEFORE CONNECTING NEW SEWER PIPE TO THE EXISTING SEWAGE SYSTEM, THE CONTRACTOR SHALL CONTACT THE SEDGWICK COUNTY EASTERN SEWER DISTRICT (733-0202). THE CONTRACTOR SHALL KEEP ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION. TO PREVENT WATER OR DEBRIS FROM ENTERING THE EXISTING SEWER, A MECHANICAL PLUG SHALL BE INSTALLED AND MAINTAINED TO ISOLATE THE EXISTING SEWER FROM THE NEW CONSTRUCTION UNTIL THE NEW CONSTRUCTION IS CLEANED, TELEVISED, AND HAS BEEN ACCEPTED. THE WATER USED FOR CLEANING SHALL NOT BE ADDED TO THE FLOW OF THE EXISTING SEWER. THE CLEANING OR OTHERWISE ACCUMULATED WATER SHALL BE PUMPED OR OTHERWISE REMOVED PRIOR TO TELEVISING.
5. ALL PIPE JOINTS SHALL BE LAID AND PUSHED 'FULL HOME', WITH THE BEVELED END OF THE SPIGOT MAKING FULL CONTACT WITH THE CHAMFERED AREA AT THE THROAT OF THE BELL OR SOCKET, WITH NO SEPARATION BETWEEN THEM. IF SEPARATION IS DETERMINED, THE PIPE SHALL BE EXCAVATED AND RELAYED ACCORDING TO SPECIFICATIONS AT THE CONTRACTORS EXPENSE.
6. EXCESS EXCAVATED MATERIAL AND OTHER DEBRIS SHALL BE WASTED ON SITES TO BE PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT EXISTING ROADWAYS AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY AS DIRECTED IN THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS, AND VERIFY THESE IN THE FIELD IN THE PRESENCE OF THE ENGINEER AND THE CONTRACTOR'S SURVEYOR. AFTER CONSTRUCTION AND BEFORE THE FINAL INSPECTION, A LETTER SIGNED AND SEALED BY THE LICENSED LAND SURVEYOR CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.
9. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
10. EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.
11. POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAS SHALL BE MAINTAINED.
12. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
13. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.
14. ALL TRENCH BACKFILL SHALL BE EITHER TYPE I OR TYPE III UNLESS NOTED OTHERWISE.
15. THE CONTRACTOR SHALL ALSO CONTACT THE FOLLOWING AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ADVISE THEM OF THE INTENDED WORK AND OF HIS PROPOSED SCHEDULE:

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES 1250 S. SENECA WICHITA, KS 67213 MR. JIM WEBER (316) 383-7901	BUTLER RURAL ELECTRIC 216 S. VINE P.O. BOX 1242 EL DORADO, KS 67042 MR. GARY DICK, LINE SUPERINTENDENT (316)265-5002

16. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS 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 LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR THE DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH THE PROPOSED CONSTRUCTION.
17. THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE HE SHALL COORDINATE SUCH WORK WITH THE ENGINEER. TREE REMOVAL OR TRIMMING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
18. WHERE INDICATED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE REMOVING, RESETTING, OR TYING BACK UTILITY POLES WITH THE UTILITY COMPANY. THE CONTRACTOR MAY USE OSHA APPROVED SHORING TO PREVENT REMOVAL AND RESETTING POLES WHERE ADEQUATE SPACE IS AVAILABLE BETWEEN THE PROPOSED SANITARY SEWER AND THE EXISTING UTILITY POLES. ALL COSTS INCURRED FOR THIS WORK, INCLUDING ANY FEES CHARGED BY THE UTILITY COMPANY, SHALL BE PAID BY THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
19. PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH THE PROPOSED WORK. THE CONTRACTOR SHALL REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER PRIOR TO THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH THE PROPOSED WORK SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
20. UNLESS NOTED OTHERWISE, ALL 4" PIPE SHALL TERMINATE WITH A PLAIN END AND SHALL BE SEALED WITH A GASKETED COMPRESSION TYPE CAP SPECIFICALLY MADE FOR THE PIPE BEING INSTALLED. CAPS MAY BE TAPED ON, BUT SHALL NOT BE GLUED OR CEMENTED TO THE PIPE. LOCATION OF ENDS OF 4" PIPE SHALL BE MARKED BY FASTENING 2-INCH WIDE METALLIC DETECTABLE TAPE TO THE END OF THE 4" PIPE THEN WRAPPED OR OTHERWISE FASTENED AT 3-FOOT INTERVALS TO 1" O.D. PVC PLASTIC PIPE EXTENDING FROM THE 4" PIPE TO THE GROUND SURFACE SUCH THAT THE TAPE IS VISIBLE WHEN THE PROJECT IS COMPLETED. METALLIC DETECTABLE TAPE SHALL BE "MagnaTec" AS MANUFACTURED BY THOR ENTERPRISES, INC., WATERLOO, WISCONSIN OR "LINEGUARD TYPE III" AS MANUFACTURED BY LINEGUARD, INC., CHICAGO, ILLINOIS OR AN APPROVED EQUAL.
21. PAVEMENT AND OTHER TRAVELWAYS DAMAGED BY THE CONTRACTOR'S OPERATIONS, INCLUDING TRAFFIC FOR MATERIAL DELIVERY AND REMOVAL, OUTSIDE OF THE PAYMENT LIMITS FOR REMOVAL AND REPLACEMENT SHALL BE REPLACED OR REPAIRED IN KIND, BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

GRASS PLANTING

THE CONTRACTOR SHALL PLANT GRASS ON ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NEITHER PART OF PAVED OR UNPAVED ROADS OR DRIVES NOR AREAS OCCUPIED BY SIDEWALKS, STRUCTURES, GARDENS, OR CULTIVATED CROPS. SURFACES SHALL BE PREPARED, FERTILIZED, AND PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AT THE APPLICATION RATES GIVEN BELOW. THE COST FOR SEEDING, SPRIGGING, AND SODDING SHALL BE SUBSIDIARY TO THE PRICE BID FOR "SITE CLEARING AND RESTORATION".

ROAD RIGHTS-OF-WAY AND OTHER PUBLICLY OWNED AREAS SHALL BE SEEDED AS DIRECTED BELOW UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TEMPORARY SEED AND MULCH AREAS THAT ARE SUSCEPTIBLE TO EROSION AND AREAS THAT WILL NOT BE PERMANENTLY SEEDED WITHIN A 2 MONTH PERIOD, AS DIRECTED BY THE ENGINEER. ALL AREAS TO BE SEEDED SHALL BE PROVIDED WITH TOP SOIL SUFFICIENT TO PROVIDE SUBSTANTIAL GROWTH.

APPLICATION RATES:

1. SEED: K-31 FESCUE @ 8 LBS PER 1,000 SQUARE FEET
2. MULCH (IF REQUIRED): 90 LBS PER 1,000 S.F.
3. FERTILIZER: NITROGEN @ 1 LB PER 1,000 S.F.
   PHOSPHOROUS @ 2 LBS PER 1,000 S.F.
   POTASSIUM @ 1 LB PER 1,000 S.F.

GRASS ON PRIVATELY-OWNED AREAS (INCLUDING TEMPORARY AND PERMANENT EASEMENTS) SHALL BE REPLACED IN KIND IN ACCORDANCE WITH THE INFORMATION GIVEN BELOW OR AS DIRECTED BY THE ENGINEER.

TYPE OF GRASS	PLANTING TIME	SEEDING APPLICATION	FERTILIZER*
BLUEGRASS (WINDSOR KENTUCKY, ETC.)	FALL	3 LBS/1,000 S.F.	8 LBS/1,000 S.F.*
TALL FESCUE (K-31)	SPRING AND FALL	8 LBS/A,000 S.F.	8 LBS/1,000 S.F*
BERMUDA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F*
ZOYSIA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.*

*FERTILIZER APPLICATION RATES ARE BASED ON ACTUAL LBS OF PHOSPHOROUS APPLIED PER 1,000 S.F. FERTILIZER SHALL BE 12-24-12 OR OTHER HIGH PHOSPHOROUS TYPE AS APPROVED BY THE ENGINEER. (EXAMPLE: TO APPLY 2 LBS OF PHOSPHOROUS USING A 12-24-12 FERTILIZER, 8 LBS OF FERTILIZER WOULD BE REQUIRED.)

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-31080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MISCELLANEOUS DETAILS

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK | Job No. 81051-10 | Sht. 10 of 51
Drawn by GM, RFJ | Date Aug. 1981

PART 3A/3B

WYE LOCATION TABLE

NOTE: THE ENGINEER WILL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON THE TABLE BELOW. DESIGN WYE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED AS NECESSARY TO BEST SERVE EXISTING BUILDINGS AND LOTS AS DIRECTED BY THE ENGINEER.

WYE NO.	DESIGN LOCATION						RISER PIPE	DISTANCE FROM MANHOLE	
	LATERAL NO.	STATION	BLOCK NO.		LOT NO.	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM
1	1	0+40	-	SG		Left	4.0		
*2	1	3+40	-	SG		Left	13.0		
*3	1	4+25	-	SG	3	Left	3.0		
*4	1	4+30	-	SG	1	Left	10.0		
*5	1	6+40	-	SG	46	Right	2.0		
*6	1	6+45	-	SG	48	Left			
*7	1	7+90	-	SG	47	Left	8.0		
*8	1	9+55	-	SG	38	Left	9.0		
*9	1	11+35	-	SG	9	Right	2.0		
*10	1	11+40	-	SG	37	Left	9.0		
*11	1	14+00	-	SG	34	Right	3.0		
*12	1	14+75	-	SG	35	Left	10.0		
*13	1	16+05	-	SG	26	Left	10.0		
*14	1	17+60	-	SG	27	Right	2.0		
*15	1	19+60	-	SG	22	Right	2.0		
*16	1	19+65	-	SG	24	Left	12.0		
*17	1	21+10	-	SG	23	Left	10.0		
*18	1	27+20	-	SA	1	Left	0.0		
*19	1	28+10	-	SA	2	Right	16.0		
20	2	1+70	-	SG	4	Left	0.0		
21	2	3+50	-	SG	5	Left	0.0		
22	2	5+40	-	SG	6	Left	0.0		
23	2	6+60	-	SG	7	Left	0.0		
24	2	9+25	-	SG	8	Left	0.0		
25	3	1+40	-	SG	1	Left	0.0		
26	4	1+70	-	SG	45	Right	0.0		
27	4	1+75	-	SG	40	Left	10.0		
28	4	3+30	-	SG	44	Right	2.0		
29	4	3+40	-	SG	41	Left	12.0		
30	4	4+15	-	SG	44	Right	3.0		
31	4	5+00	-	SG	42	Left	13.0		
32	4	5+85	-	SG	43	Right	4.0		
33	4	7+60	-	SG	10	Right	2.0		
34	4	7+70	-	SG	11	Left	12.0		
35	4	12+05	-	SG	12	Left	5.0		
36	4	13+65	-	SG	13	Left	5.0		
37	4	15+25	-	SG	14	Left	3.0		
38	4	16+80	-	SG	15	Left	4.0		
39	4	18+55	-	SG	16	Right	14.0		
40	4	19+60	-	SG	16	Right	10.0		
41	5	2+15	-	SG	9	Right	0.0		
42	5	3+70	-	SG	9	Right	0.0		
43	6	0+10	-	SG	36	Right	3.0		
44	7	0+90	-	SG	27	Left	13.0		
45	7	1+70	-	SG	28	Left	14.0		
46	7	1+85	-	SG	33	Right	4.0		
47	7	2+40	-	SG	28	Left	14.0		
48	7	2+50	-	SG	33	Right	4.0		
49	7	3+45	-	SG	32	Right	2.0		
50	7	3+55	-	SG	29	Left	12.0		
51	7	4+10	-	SG	32	Right	0.0		
52	7	4+20	-	SG	29	Left	10.0		
53	7	5+80	-	SG	31	Right	0.0		
54	7	5+90	-	SG	30	Left	10.0		
55	7	8+00	-	SG	31	Right	0.0		
56	8	1+55	-	SG	30	Left	0.0		
57	9	0+15	-	SG	25	Right	0.0		
58	9	1+30	-	SG	26	Left	10.0		
59	9	1+35	-	SG	25	Right	0.0		
60	10	1+65	-	SG	21	Right	12.0		
61	10	2+45	-	SG	21	Right	13.0		
62	10	3+40	-	SG	20	Right	12.0		
63	10	5+10	-	SG	19	Right	10.0		
64	10	6+60	-	SG	18	Right	10.0		
65	10	8+25	-	SG	17	Right	10.0		
66	10	12+60	-	SA	8	Right			
67	10	12+65	-	SA	7	Left			
68	11	3+85	-	SA	3	Left	13.0		
69	11	3+90	-	SA	4	Left	3.0		
70	12	3+85	-	SA		Left	13.0		
71	12	3+90	-	SA		Right	3.0		
72	13	5+70			1	Right	24.0		

*10"x4" Wyes, all [illegible] 8"x4"

WYE LOCATION TABLE

NOTE: THE ENGINEER WILL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON THE TABLE BELOW. DESIGN WYE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED AS NECESSARY TO BEST SERVE EXISTING BUILDINGS AND LOTS AS DIRECTED BY THE ENGINEER.

WYE NO.	DESIGN LOCATION						RISER PIPE	DISTANCE FROM MANHOLE	
	LATERAL NO.	STATION	BLOCK NO.		LOT NO.	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM
73	13	9+25	-	SA	4	Right	29.0		
74	13	9+45	Sichley Addition			Left	8.0		
75	13	14+10	C	HA	24	Right	8.0		
76	13	15+60	C	HA	23	Right	6.0		
77	13	17+95	C	HA	22	Right	6.0		
78	13	19+20	C	HA	21	Right	6.0		
79	13	23+25	C	HA	18	Right	4.0		
80	13	25+75	C	HA	17	Right	0.0		
81	13	28+85	C	HA	16	Right	0.0		
82	13	31+60	C	HA	15	Right	0.0		
83	13	33+05	C	HA	14	Right	0.0		
84	13	35+05	C	HA	13	Right	0.0		
85	13	36+50	C	HA	12	Right	0.0		
86	13	38+05	C	HA	11	Right	0.0		
[illegible]	13	39+45	C	HA	10	Right	0.0		
[illegible]	13	40+85	C	HA	9	Right	0.0		
89	13	42+30	C	HA	8	Right	0.0		
90	13	43+75	C	HA	7	Right	0.0		
91	13	45+10	C	HA	6	Right	0.0		
92	13	[illegible]	C	HA	5	Right	0.0		
93	13	47+[illegible]	C	HA	4	Right	0.0		
94	13	49+15			3	Right	0.0		
95	13	51+90	C	HA	1	Right	3.0		
96	13	55+00	C	HA		Right	13.0		
97	13	56+75	1	GH1	5	Left	4.0		
98	13	58+65	1	GH1	2	[illegible]	13.0		
99	13	58+70	1	GH1	6	Left	3.0		
100	13	59+85	1	GH1	3	Right			
101	13	59+90	1	GH1	7	Left	3.0		
102	13	61+45	1	GH1	4	Right	13.0		
103	13	61+50	1	GH1	7	Left	3.0		
104	14	1+45	-	SSA	1	Left	4.0		
105	14	3+35	-	SSA	1	Left	4.0		
106	14	4+80	-	SSA	1	Left	5.0		
107	14	6+15	-	SSA	1	Left	6.0		
108	14	7+30	-	SSA	1	Left	6.0		
109	14	8+10	-	SSA	1	Left	6.0		
110	14	8+80	-	SSA	2	Left	6.0		
111	14	10+05	-	SSA	2	Left	4.0		
112	14	13+15	-	SSA	2	Left	10.0		
113	14	14+10	-	SSA	2	Left	10.0		
114	14	15+75	-	SSA	3	Left	10.0		
115	14	17+05	-	SSA	8	Left	30.0		
116	14	20+30	-	SSA	8	Left			
117	14	21+60	-	NR	1	Right	0.0		
118	14	22+90	-	SSA	7	[illegible]	10.0		
119	14	23+15	-	SLA	2	[illegible]	10.0		
120	14	25+10	-	NR	[illegible]	Right	10.0		
121	14	25+15	-	[illegible]	2	Left	0.0		
122	14	27+50	-	[illegible]	3	Right	10.0		
123	14	27+[illegible]	-	SLA	2	Left	0.0		
124	14	[illegible]	-	NR	5	Right	13.0		
125	14	29+20	-	SLA	2	Left	3.0		
126	14	30+60	-	NR	6	Right	14.0		
127	14	30+65	-	SLA	2	Left	4.0		
[illegible]	14	32+55	-	NR	7	Right	16.0		
[illegible]	14	32+60	-	SLA	2	Left	6.0		
130	14	33+95	-	SLA	2	Left	7.0		
131	14	34+30	-	NR	8	Right	17.0		
132	14	38+25	2	GH2	1	Right	16.0		
133	14	40+15	3	GH1	1	Left	14.0		
134	14	41+65	2	GH2	2	Right	3.0		
135	14	41+70	3	GH1	2	Left	13.0		
136	14	43+20	2	GH2	3	Right	2.0		
137	14	43+25	3	GH1	3	Left	12.0		
138	14	44+70	2	GH2	4	Right	3.0		
139	14	44+75	3	GH1	4	Left	13.0		
140	14	46+20	2	GH2	10	Left	12.0		
141	14	46+25	2	GH2	5	Right	2.0		
142	14	47+40	2	GH2	9	Left	3.0		
143	14	48+60	2	GH2	6	Right	3.0		
144	14	48+65	2	GH2	8	Left	13.0		

WYE LOCATION TABLE

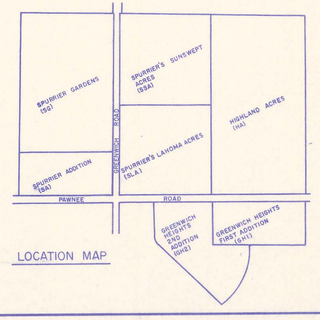
NOTE: THE ENGINEER WILL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON THE TABLE BELOW. DESIGN WYE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED AS NECESSARY TO BEST SERVE EXISTING BUILDINGS AND LOTS AS DIRECTED BY THE ENGINEER.

WYE NO.	DESIGN LOCATION						RISER PIPE	DISTANCE FROM MANHOLE	
	LATERAL NO.	STATION	BLOCK NO.		LOT NO.	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM
145	15	0+60	-	SSA	10	Right	10.0		
146	15	0+65	-	SSA	9	Left	0.0		
147	15	2+50	-	SLA	6	Left	0.0		
148	15	3+10	-	SLA	6	Right	4.0		
149	15	4+00	-	SLA	7	Right	3.0		
150	15	4+05	-	SLA	7	Left	3.0		
151	15	5+55	-	SLA	8	Right	2.0		
152	15	5+60	-	SLA	8	Left	8.0		
153	15	7+25	-	SLA	9	Right	3.0		
154	15	7+30	-	SLA	9	Left	3.0		
155	15	7+90	-	SLA	9	Right	11.0		
156	15	7+95	-	SLA	9	Left	5.0		
157	15	8+80	-	SLA	10	Right	13.0		
158	15	8+85	-	SLA	10	Left	3.0		
159	15	10+40	-	SLA	11	Right	13.0		
160	15	10+45	-	SLA	11	Left	3.0		
161	15	11+15	-	SLA	11	Left	3.0		
162	15	12+10	-	SLA	12	Right	10.0		
163	15	12+15	-	SLA	12	Left	0.0		
164	15	13+10	-	SLA	12	Left	0.0		
165	15	13+80	-	SLA	14	Right			
166	15	13+85	-	SLA	14	Left	0.0		
167	16	1+05	-	SLA	6	Left	0.0		
168	16	1+30	-	SLA	10	Left	10.0		
169	17	0+40	-	SSA		Left	10.0		
170	18	1+50	-	SLA		Right	0.0		
171	18	1+55	-	SLA	4	Left	10.0		
172	18	3+60	-	SLA	5	Right	0.0		
173	18	[illegible]	-	SLA	4	Left	10.0		
174	18	[illegible]95	-	SLA	5	Right	0.0		
175	[illegible]	6+00	-	SLA	4	Left	10.0		
176	[illegible]	7+90	-	SLA	4	Left	10.0		
177	18	8+75	-	SLA	5	Right	0.0		
178	18	9+85	-	SLA	5	Left	10.0		
179	19	0+15	-	GH2	Exc.	Left	13.0		
180	19	1+45	-	GH2	Exc.	Left	10.0		
[illegible]	19	3+10	-	GH2	Exc.	Left	10.0		
182	19	8+50	1	GH2	1	Right	0.0		
183	19	10+45	-	GH2	Exc.	Left	10.0		
184	[illegible]	11+15	1	GH2	4	Left	10.0		
185	[illegible]	12+00	1	GH2	2	Right	0.0		
186	20	[illegible]	-	SSA	4	Left	35.0		
187	20	[illegible]	-	SSA	4	Left	33.0		
188	20	3+20	-	[illegible]	4	Left	30.0		
189	20	4+15	-	SSA	4	Left	30.0		
190	20	5+20	-	SSA	[illegible]	Left	30.0		
191	20	6+55	-	SSA	4	[illegible]	30.0		
192	20	7+35	-	SSA	4	[illegible]	30.0		
193	20	8+55	-	SSA	4	Left	30.0		
194	20	9+95	-	SSA	4	Left	[illegible]		
195	20	10+45	-	SSA	3	Right	10.0		
196	20	10+50	-	SSA	3	Left	0.0		
197	21	0+40	-	SSA	1	Right	0.0		
198	21	0+45	-	SSA	1	Left	10.0		
199	22	3+25	-	SSA	6	Right	17.0		
200	22	3+30	C	HA	25	Left	7.0		
201	22	5+05	-	SSA	6	Right	6.0		
202	22	7+15	-	SSA	6	Right	26.0		
203	22	8+05	-	SSA	6	Right	27.0		
204	22	9+85	-	SSA	6	Right	27.0		
205	22	12+10	-	SSA	6	Right	6.0		
206	22	12+15	A	HA	10	Left	16.0		
207	22	13+35	-	SLA	1	Right	5.0		
208	22	15+30	-	SLA	1	Right	0.0		
209	22	15+35	A	HA	8	Left	10.0		
210	22	16+70	-	SLA	1	Right	0.0		
211	22	16+75	A	HA	7	Left	10.0		
212	22	17+95	-	SLA	1	Right	0.0		
213	22	18+00	A	HA	6	Left	10.0		
214	22	19+25	-	SLA	1	Right	0.0		
215	22	19+30	A	HA	5	Left	10.0		
216	22	20+65	-	SLA	1	Right	0.0		

WYE LOCATION TABLE

NOTE: THE ENGINEER WILL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON THE TABLE BELOW. DESIGN WYE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED AS NECESSARY TO BEST SERVE EXISTING BUILDINGS AND LOTS AS DIRECTED BY THE ENGINEER.

WYE NO.	DESIGN LOCATION						RISER PIPE	DISTANCE FROM MANHOLE	
	LATERAL NO.	STATION	BLOCK NO.		LOT NO.	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM
217	22	20+70	A	HA	4	[illegible]	10.0		
218	22	21+90	-	SLA	1	[illegible]	0.0		
219	22	23+30	-	SLA	[illegible]	Right	0.0		
220	22	23+75	A	HA	[illegible]	Right	0.0		
221	22	25+05	[illegible]		1	Right	0.0		
222	22	25+[illegible]	B	HA	3	Left	10.0		
223	22	[illegible]	B	HA	4	Right	0.0		
224	23	1+70	A	HA	11	Left	13.0		
225	[illegible]	1+75	A	HA	9	Right	3.0		
226	[illegible]	4+10	B	HA	12	Left	13.0		
[illegible]	23	4+15	B	HA	11	Right	3.0		
[illegible]	23	5+25	B	HA	13	Left	10.0		
229	23	6+80	B	HA	14	Left	10.0		
230	23	8+75	B	HA	15	Left	10.0		
231	23	8+80	B	HA	16	Right	0.0		
232	24	1+40	B	HA	10	Right	0.0		
233	24	1+45	B	HA	17	Left	10.0		
234	24	2+75	B	HA	9	Right	0.0		
235	24	2+80	B	HA	18	Left	10.0		
236	24	4+10	B	HA	8	Right	0.0		
237	24	4+15	B	HA	19	Left	10.0		
238	24	5+45	B	HA	7	Right	0.0		
239	24	5+50	B	HA	20	Left	10.0		
240	24	6+80	B	HA	6	Right	3.0		
241	24	6+85	B	HA	21	Left	13.0		
242	24	8+10	B	HA	5	Right	5.0		
243	24	9+65	B	HA	3	Right	16.0		
244	24	10+00	B	HA	2	Right	15.0		
245	24	10+95	B	HA	22	Left	2.0		
246	24	11+20	B	HA	1	Right	10.0		
247	25	1+10	C	HA	19	Left	16.0		
248	25	1+15	C	HA	20	Right	6.0		
249	25	3+95	D	HA	4	Right	4.0		
250	25	4+00	D	HA	3	Left	14.0		
251	25	6+50	D	HA	5	Right	13.0		
252	25	6+55	D	HA	2	Left	3.0		
253	25	8+80	D	HA	6	Left	0.0		
254	25	10+85	E	HA	1	Left	2.0		
255	25	11+90	E	HA	6	Left	4.0		
256	26	2+00	E	HA	3	Right	12.0		
257	26	2+05	E	HA	2	Left	2.0		
258	26	3+20	E	HA	4	Right	10.0		
259	26	3+25	E	HA	5	Left	0.0		
260	27	0+55	1	GH1	1	Left	10.0		
261	27	3+05	2	GH1	5	Left	13.0		
262	27	5+40	2	GH2	1	Right	4.0		
263	27	6+95	2	GH1	2	Right	4.0		
264	27	7+00	2	GH1	6	Left	14.0		
265	27	8+50	2	GH1	3	Right	4.0		
266	27	8+55	2	GH1	7	Left	14.0		
267	27	10+05	2	GH1	4	Right	3.0		
268	27	10+10	2	GH1	8	Left	13.0		
269	27	11+55	3	GH2	1	Right	4.0		
270	27	13+45	3	GH2	2	Right	10.0		
271	27	15+25	3	GH2	3	Right	10.0		
272	27	16+95	3	GH2	4	Right	10.0		
273	27	18+85	3	GH2	5	Right	10.0		



LOCATION MAP

DELETED

No.	Revision	By	Date
1	Update per P.E.C. Proj No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER


MISCELLANEOUS DETAILS
(WYE LOCATION TABLES)

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK	Job No. 81051-10	Sht. 11 of 51
Drawn by TC, SC	Date Aug., 1981	

PART 3A/3B



Sta. ~~54+08.28 back~~ 54+10.88
~~Sta. 0+14.06 ahead~~
MGA-19
LATERAL No. 13 See Sht. No. 24
GREENWICH ROAD
Road Baseline "N"
SPURRIER GARDENS
Sta ~~2+40.25~~ 56+38.40 Const. MGA-20 Type C
LATERAL No. 2 See Sht. No. 15
IDENTICAL POINTS
Sta. ~~2+40.25~~ 56+38.40 MGA-20
Remove and Reset fence as required
Utility Poles to be removed and reset by Utility Company as required
MAIN GA
Row of Osage Orange Trees
20' San. Sew. Esm't.
℄ "B", Sta. 0+60.00 10.10' Left
MAIN GA, Spring Creek Interceptor Sewer See Part 1, sheet 12 of 13
40' Temp. Const. Esm't.
Install ~~226.19~~ 227.52 L.F. 10" Pipe
BM#2- Railroad Spike in the east face of Utility Pole, 30' west of the west 1/4 corner of sec. 34, T27S, R2E. Elev.=1344.10 (MSL)
℄ "B" Sta. 2+86.19 9.13' Left
16' Utility Easement
20' Temp. Const. Esmt.
LATERAL No. 2 See Sht. No. 15
Install ~~328.83~~ 353.14 L.F. 10" Pipe
BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.
ALL PIPE INSTALLED IS PVC PIPE.
MGA-19 Top Elev.=1345.52
℄ IN=~~1327.17~~ .12 (8") from LATERAL No. 13
℄ OUT=1326.~~59~~ .53
℄ IN=~~1328.57~~ 27.55
MGA-20 Top Elev.=1347.~~2~~ .53
℄ IN=~~1335.59~~ 34.43 (8") from LATERAL No. 2
℄ OUT=1329.~~66~~ .56
℄ IN=~~1333.75~~ 34.43
MHGA-20 Top Elev.=1347.~~2~~ .53
Existing Ground
~~226.19~~ 227.52 L.F. 10" Pipe @ 0.48 %
~~328.83~~ 353.14 L.F. 10" Pipe @ 0.25 %
(continued below)
0+00 1+00 2+00 3+00 4+00
1350 1340 1330 1320
Sta. ~~5+69.08~~ 59+91.54 Const. MGA-21 Type A
LATERAL No. 3 See Sht No. 16
Install Wyes and Riser Pipe per the "WYE LOCATION TABLE" on Sht. No. 11
Remove and Replace 26 Sq. Yds. Paved Road See detail Sht. No. 10
Utility Pole to be removed and reset by Utility Company as required
Sta. ~~9+30.60~~ 63+28.79 Const. MGA-22 Type A
CLARK STREET
Baseline "C"
Baseline "F"
Baseline "D"
℄ 16' Utility Easement
20' Temp. Const. Esmt.
BM#18- Chiseled "□" in the center of the top of the east Concrete Headwall to driveway at 11021 Clark St. Elev.=1347.37 (MSL)
℄ "C", Sta. 3+38.00 0.76' Right
CAUTION!! Buried Utilities Fiber Optics
Remove and Reset fence as required
Install ~~361.52~~ 337.25 L.F. 10" Pipe
℄ "C", Sta. 6+00.50 2.97' Left
LATERAL No. 4 See Sht. No. 16
PLAN: Lat. & Long.
PROFILE: Horiz. same as above Vert.
MGA-21 Top Elev.=1344.6
MGA-21 Top Elev.=1345.14
℄ IN=1334.~~77~~ .82 (8") from LATERAL No. 3
℄=1334.57
℄ IN=1334.60
℄ OUT=1334.70
℄ IN=1334.60
MGA-22 Top Elev.=1345.~~4~~ .90
℄ IN=1335.68 (8") from LATERAL No. 4
℄=1335.~~48~~ .44
~~361.52~~ 337.25 L.F. 10" Pipe @ 0.25%
(continued from above)
4+00 5+00 6+00 7+00 8+00 9+00
MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER
RECORD DRAWING MDK PROJ. ENG. 7/12/97 DATE RES. ENG. DATE
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS
Job No. 34-8105/-10-024 Date August 1981
Designed by MDS, MDK Drawn by TC, SC, GM
1 Update per P.E.C. Proj. No. 34-91080 RJ 4/91
No. Revision By Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
MAIN 6A
SANITARY SEWER LATERALS GREENWICH HEIGHTS LATERAL SEWER DISTRICT
Sht. 12 of 51

PART 3A

Sta. 9+30.60
MGA-22

G3+28.70

Utility Pole to be removed and reset by Utility Company as required

Remove and Reset fence as required

Utility Pole to be removed and reset by Utility Company as required

Remove and Replace 249 Sq. Yds. Paved Road See detail, Sht. No. 10

Remove and reset fence as required

Lateral No. 6 See Sht. No. 18

Sta. 13+00.00 Const. MGA-23 Type B

Remove and Replace 16 Sq. Yds. Paved drive 76 Sq. Yds. Unpaved drive See detail, Sht. No. 10

1/2" Rebar

20' Temp. Const. Esmt.

℄ 16' Utility Easement Baseline "C"

℄ "C" Sta. 6+00.50 2.97' Left

MAIN GA

20' Temp. Const. Esmt.

5/8" Rebar

℄ "C" Sta. 10+00.50 5.13' Left

5/8" Rebar

℄ 16' Utility Easement Baseline "C"

Lateral No. 4 See Sht. No. 16

BM #18- Chiseled "a" in the center of the top of the east Concrete Headwall to driveway at 11021 Clark St. Elev. 1347.37 (MSL)

SPURRIER

369.56 Install 370.00 L.F. 10" Pipe

CAUTION !! Buried Utilities

BELLAIRE AVE.

GARDENS

Install 200.00 L.F. 10" Pipe

Utility Pole to be removed and reset by Utility Company as required

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MGA-22 Top Elev.=1345.47

Existing Ground

FE IN = 1335.68 (8") from Lateral No. 4

FE = 1335.48

MGA-23 Top Elev.=1347.77

48.27

FE IN = 1338.40 (8") from Lateral No. 6

FE = 1338.40

369.56 370.00 L.F. 10" Pipe @ 0.25%

200.14 200.00 L.F. 10" Pipe @ 0.25%

(continued below)

9+00 10+00 11+00 12+00 13+00 14+00

1350 1340 1330 1320

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-81051-10-021
Date August 1981
Designed by MDS, MDK
Drawn by TC, BC, GM

Sta. 15+90.62 Const. MGA-24 Type B

G9+88.49

Utility Pole to be removed and reset by Utility Company as required

Remove and Reset fence as required

Lateral No. 9 See Sht. No. 21

Utility Pole to be removed and reset by Utility Company as required.

Sta. 17+40.12 Const. MGA-25 Type A

71+48.18

PLAN: Lat. & Long.

PROFILE: Horiz. same as above Vert.

0 20 40

10 5 0

Remove and Replace 20 Sq. Yds. Paved Road and Drive See Sht. No. 10

74+02.50 Sta. 20+04.37 Const. MGA-26 Type A

5/8" Rebar

℄ 16' Utility Easement

MAIN GA

Baseline "C"

20' Temp. Const. Esmt.

℄ "C" Sta. 13+50.50 3.32' Left

Baseline "H" PI 0+00

PI I-C 0+00

20' Temp. Const. Esmt.

℄ 16' Utility Easement

MAIN GA

Baseline "C"

20' Temp. Const. Esmt.

Lateral No. 7 See Sht. No. 20

BM #22- Chiseled "a" in the west edge of a Concrete Bridge to Driveway at 11025 Kirkaid. Elev. 1348.91 (MSL)

SPURRIER GARDENS

Install 158.50 L.F. 10" Pipe 159.09

℄ "C" Sta. 15+18.00 3.93' Left

Install 255.25 L.F. 10" Pipe 254.32

CAUTION !! Buried Utilities

KINKAID

Remove and Reset 15" R.C.P. as Required

℄ "C" Sta. 17+73.25 5.47' Left

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MGA-24 Top Elev.=1348.89 40.20

FE IN = 1330.13 (8") from Lateral No. 7

FE = 1330.00

MGA-25 Top Elev.=1347.76 40.34

Existing Ground

FE IN = 1337.72 (8") from Lateral No. 9

FE = 1337.52

MGA-26 Top Elev.=1345.18 40.41

FE = 1338.76

159.09 158.50 L.F. 10" Pipe @ 0.25%

254.32 255.25 L.F. 10" Pipe @ 0.25%

(continued from above)

15+00 16+00 17+00 18+00 19+00 20+00

1350 1340 1330 1320

RECORD DRAWING
MDK PROJ. ENG. 1/12/87 DATE
RES. ENG. DATE

No.	Revision	By	Date
1	Update per A.E.C. Proj. No. 34-81080	RJ	1981

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MAIN 6A
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 13 of 51

MICHAEL D. SCHOMAKER LICENSED 9778 KANSAS PROFESSIONAL ENGINEER

PART 3A

74+02.50
Sta. ~~20+04.37~~
MGA-26

Utility Pole to be removed and reset by Utility Company as required

Remove and reset fence as required

Sta. ~~22+59.62~~
Const MGA-27
Type A

76+57.80

LATERAL No. 10
See Sht No. 21

IDENTICAL POINTS

Sta. ~~22+59.62~~
MGA-27

76+57.80

Sta. ~~23+59.77~~
Const MGA-28
Type A

77+49.77

Remove and reset fence as required

SPURRIER GARDENS

SPURRIER ADDITION

Install ~~255.25~~ L.F. 10" Pipe

.30

℄ "C", Sta. 17+73.25
5.47' Left

℄ "C", Sta. 20+28.50
7.0' Left

LATERAL No. 10
See Sht No. 21

BM # 22 - Chiseled "□" in the west edge of a Concrete Bridge to Driveway at 11025 Kirkaid. Elev. = 1338.91 (MSL)

℄ "C" Sta. 20+28.50
7.0' Left

Install ~~100.15~~ L.F. 10" Pipe

91.97

℄ "C", Ext. Sta. 21+45.00
0.0' Left

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MGA-26 Top Elev.= 1347.9 ~~48.27~~

MGA-27 Top Elev.= 1340.62

MGA-28 Top Elev.= 1347.9 ~~48.05~~

Existing Ground

℄ IN = 1330.00 (8") From LATERAL No. 10

℄ IN = 1330.00 (8") From LATERAL No. 10

℄ OUT = 1338.80 .27
℄ IN = 1330.00 .13

℄ OUT = 1339.00
℄ IN = 1338.97

℄ OUT = 1339.00
℄ IN = 1338.78

℄ OUT = 1330.28
℄ IN = 1330.15 .43

℄ E = 1338.46 .25

.30
255.25 L.F. 10" Pipe
@0.25 %

91.97
~~100.15~~ L.F. 10" Pipe
@0.25 %

20+00 21+00 22+00 23+00

1350 1340 1330 1320

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, BC, GM
Job No. 34-81051-10-024
Date August 1981

Sta. ~~23+59.77~~ 77+49.77
MGA-28

Sta. ~~20+88.82~~
Const MGA-29
Type A

80+78.70

Yardlight
Guardposts
Bldg.
Conc Pad
Gas Meter
Conc Sidewalk

20' Temp. Const. Esmt.

10' Sanitary Sewer Esmt.

MAIN GA

Baseline "C"

Woven Wire Fc.

10' San. Sew. Esmt.

℄ "C" Ext., Sta. 21+45.00
0.0' Left

328.93
Install ~~329.05~~ L.F. 10" Pipe

℄ C Sta. 24+58.81
6.90' Left

LATERAL No. 11
See sht. no. 23

Baseline 1-K-1

SPURRIER GARDENS

SPURRIER ADDITION

Install ~~Taper~~ Riser Pipe ~~MON TABLE OF~~ LATERAL No. 11

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Existing Ground

℄ IN = 1340.47 (8") From LATERAL No. 11

℄ OUT = 1330.28
℄ IN = 1330.15 .43

℄ E = 1340.27 .35
℄ IN = 1340.50

328.93
~~329.05~~ L.F. 10" Pipe
@0.25 %

24+00 25+00 26+00

1350 1340 1330 1320

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
GES. ENG. DATE

MICHAEL D. SCHUMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

BM # A - Railroad Spike in the north face of a Utility Pole, 43' north and 38' west of the intersection of Pawnee Rd and Greenwich road. Elev. = 1351.78 (MSL)

No	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4-91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

MAIN 6A

Sht. 14 of 51

PART 3A

80+78.70
~~Sta. 26+88.82~~
MGA-20

Guard Rail
Guard Post
6' Sidewalk
Bldg.
4' Sidewalk
Conc. Pad

83+60.23
~~Sta. 29+79.51~~
Const. MGA-30
Type A
W/self-sealing Frame

Install 1-8" Stub and cap

20' Temp. Const. Esmt.
10' Sanitary Sewer Esmt.
MAIN GA
Baseline "C"
Woven Wire Fc.
℄ "C" Sta. 24+58.81
6.00' Left
LATERAL No. 11
See sht. no. 23
SPURRIER
25.00
Woven Wire Fc.
Single Strand Fc.
290.53
Install ~~290.69~~ LF
10" Pipe
ADDITION
9" Maple
Conc. Drive
Gravel Drive
10' Sanitary Sewer Esmt.
45" Poplar
Baseline "C"
℄ "C", Sta. 27+49.50
7.50' Left
Fiber Optic (Multimedia Cablevision)
4" Steel Gas Line (KPL Gas Service)
Section Line
PAWNEE
P15-C
CAUTION!! Buried Utilities

PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vert. 10 5 0

BM #4- Railroad Spike in the north face of a Utility Pole, 43' north and 38' west of the intersection of Pawnee Rd. and Greenwich road.
Elev.= 1351.78 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1360
1350
1340
1330

MGA-29
Top Elev.=1340.8
20.44
Existing Ground
MGA-30
Top Elev.=1352.5
1352.0
~~32~~
~~1341.47~~
From 1-8" Stub (S)
~~1340.27~~
~~1340.50~~
290.53
~~290.69~~ LF 10" Pipe
@0.25%
~~26+00~~
27+00
~~28+00~~
~~29+00~~

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, BC, CNT
Job No. 94-01051-10-024
Date August 1997

MAIN GA
See Sht No. 12
56+33.40
~~Sta. 2+40.25~~ MAIN GA
Sta. 0+00.00 LATERAL No. 2
MGA-20
Baseline "C"
24" Elm.
Woven Wire Fc.
5/8" Rebar
Shed
8" Elm.
10" Elm.
Snow Fence
12" Hackberry
3-3" Elm.
Barb Wire Fc.
Conc. Wire Fc.
~~Fence~~
8" Osage Orange and Elm Row
8' Easement
SPURRIER
Hackberry
6" Hackberry
8" Elm.
DM
GARDENS
Sta. 3+51.27
Const. 2-1
Type A
.06
10" Osage Orange and Elm Row
10" Osage Orange
Shed
17" Osage Orange
4" Elm
Chain Link Fc.
Junk
Barb Wire Fc.
Hackberry Building
12" Hackberry
Baseline "B"
40' Temp. Const. Esmt.
20' San. Sew. Esmt.
LATERAL No. 2
5+00
℄ "C", Sta. 0+24.10
4.0' Right
Install ~~Asbestos Pipe~~ Pipe
~~thru~~ LOCATION TABLE ON SHT NO 11
.06
Install 351.27 L.F.
8" Pipe
B.M. #2- Railroad Spike in the east face of Utility Pole, 30' west of the west ¼ corner of sec. 34, T27S, R2E.
Elev.= 1344.10 (MSL)
℄ "B", Sta. 6+37.46
9.09' Left
350.50
Install 351.27 L.F.
8" Pipe
8 Baseline "B"
40' Temp. Const. Esmt.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1360
1350
1340
1330

MGA-20
Top Elev.=1347.2
.53
~~1347.72~~
℄ IN = 1334.43
From MAIN GA
~~1334.43~~
℄ Out = 1332.56
~~1332.56~~
I.E. = 1335.59
~~1335.47~~
℄ = 1338.22
1338.75
.06
351.27 L.F. 8" Pipe
@0.75%
350.50
~~351.27~~ L.F. 8" Pipe
@1.80%
0+00
1+00
2+00
3+00
4+00
5+00
(continued on following sheet)

RECORD DRAWING
MDK PROJ. ENG. 3/15/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOONOVER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER


No.	Revision	By	Date
1	Update for OFC Proj No. 24-01080-10		5/01
2			
3			

SEDGWICK COUNTY, BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR OF PUBLIC SERVICES/COUNTY ENGINEER

MAIN GA & LATERAL NO. 2
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 15 of 51

PART 3A



Sta. 7+02.54 01.56
Const. 2-2
Type A
SPURRIER
GARDENS
PLAN: Lat. & Long.
0 20 40
PROFILE: Horiz. same as above
Vert.
Sta. 10+53.81 41.27
Const. 2-3
Type A
Install 1-8" Stub and Cap
Chain Link Fc.
Building
2-14" Hack's
8" Hackberry
Junk
14" Elm
8" Elm
4-8" Hackberry's
13" Hackberry
8" Osage Orange & Elm Row
Barb Wire Fc.
3-10" Hackberry's
8" Osage Orange's
Chain Link Fc.
10" Osage Orange
Garage
3-10" Hackberry's
2-10" Osage Oranges
5/8" Rebar
Osage Orange Trees
10" Osage Orange
8" Elm
8'
Easement
20' San. Sew. Esm't.
LATERAL No. 2
3" Osage Orange
Woven Wire Fc.
8" Osage Orange Row
5/8" Rebar
Barbed Wire Fence
2-7" Trees
6" Osage Oranges
5" Osage Oranges
Hedgerow
Easement
D.M.
P.P.
10" Hackberry's
Baseline "B"
10+00
PI 1-B
339.71
Install 351.27 L.F. 8" Pipe
℄ "B" Sta. 9+88.72
9.04' Left
40' Temp. Const. Esm't.
5" Hackberry
BM#19 - Railroad Spike in the east face of a Utility Pole 35' north of centerline Clark and 10' east of hedgerow along the west line of Spurrier Gardens Addition Elev.=1360.74 (MSL)
℄ "B" Ext., Sta. 13+23.50
24.00' Left
BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.
ALL PIPE INSTALLED IS PVC PIPE.
1360
1350
1340
1330
Existing Ground
2-2
Top Elev.= 1354.7 55.04
FL=1344.55 .45
2-3
Top Elev.= 1357.05
2-8
Top Elev.= 1356.6
FL IN=1345.95 from 1-8" Stub
FL=1345.93
FL=1345.95
(continued from preceding sheet)
339.71
351.27 L.F. 8" Pipe
@0.40%
5+00
6+00
7+00
8+00
9+00
10+00
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, SC, GM
Job No. 34-81051-10-024
Date August 1981
Sta. 5+60.08, MAIN GA
Sta. 0+00.00, LATERAL No. 3
MGA-21
Remove and reset fence as required
Sta. 1+44.79 45.55
Const. 3-1
Type A
Install 1-4" Stub
See detail, Sht. No. 8
CAUTION!! Fiber Optics Telephone Duct bank
20' Temp. Const. Esmt.
10' Sanitary Sewer Esmt.
LATERAL No. 3
Buried Tel. (SWB)
Cable TV (Multimedia Cablevision)
2" Drisco Gas (KPL Gas Service)
5/8" Rebar
(SWB) Buried Tele.
Baseline "C"
Bushes
5" Maple
3" Maple
Swimming Pool
Woven Wire Fc.
2" Mulberry
4" Elm
Rosebush
℄ "C", Sta. 3+38.00
0.76' Right
Install 144.79 L.F. 8" Pipe 145.55
℄ "F", Sta. 1+44.00
20.50' Left
5/8" Rebar
Baseline "F"
PI 1-F
0+00
MAIN GA
See Sht. No. 12
CLARK
B.M. #18 - Chiseled "□" in the center of the top of the east Concrete Headwall to driveway at 11021 Clark St. Elev.=1347.37 (MSL)
STREET
MAIN GA
See Sht. No. 12
Baseline "C"
Chain Link Fc.
Const. Esmt.
Sta. 0+30.60, MAIN GA =
Sta. 0+00.00, LATERAL No. 4
MGA-22
Wood Shed
Wood Fc.
Pine Row
℄ 16' Easement
Pole Barn
Yard Hyd.
4" Peach
LATERAL No. 4
1/2" Iron Pipe
PI 0-D
0+00
2" Redbud
Baseline "D"
Elms
Pine Trees
Pines
1/2" Rebar
20' Temp Const. Esmt.
℄ "C", Sta. 6+99.50
2.97' Left
SPURRIER
Install 321.00 L.F. 8" Pipe .96
Utility Pole to be removed and reset by Utility Company as required
12" Cottonwood
Bush Row
10" Cottonwoods
Small Trees
8" Evergreen
Remove and Reset fence as required
Woven Wire Fc.
Sta. 3+21.00 .96
Const. 4-1
Type A
Baseline "D"
℄ "D", Sta. 3+18.05
3.06' Left
GARDENS
RECORD DRAWING
MDK PROJ. ENG 3/12/97 DATE
RES ENG DATE
MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER
MGA-21
Top Elev.=1344.6 45.14
Existing Ground
FL IN=1334.60 from MAIN GA
3-1
Top Elev.=1343.6 44.41
FL IN=1336.26 .44 from 4" Stub
FL OUT=1334.57 .70
FL IN=1334.77 .82
FL=1335.93 .97
145.55
144.79 L.F. 8" Pipe
@0.80%
MGA-22
Top Elev.=1345.4 .90
FL IN=1335.46 from MAIN GA
FL OUT=1335.48 .44
FL IN=1335.68
4-1
Top Elev.= 1349.8 50.31
FL=1338.80 .91
.96
321.00 L.F. 8" Pipe
@1.00%
0+00
1+00
0+00
1+00
2+00
3+00
1 Update per P.E.C. Proj. No. 34-91080 RJ 4/91
No. Revision By Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LATERAL NO. 2, 3, & 4
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT
Sht. 16 of 51
PART 3A

Sta. 3+21.00 .96
4-1

Utility Pole to be removed and reset by Utility Company as required

Remove and reset fence as required

SPURRIER GARDENS

Remove and reset fence as required

Sta. 6+52.45
Const. 4-2
Type C

.G5

LATERAL No. 5
See Sht. No. 10

STREET

OKLAHOMA

PI 2-D
0+00

Baseline "D"

PI 1-D

8" Evergreen
Small Trees
2" Trees
4" Trees
2-6" Trees
8" Hackberry
16" Elms
10" Mulberry
Bush Row
LATERAL No. 47
Woven Wire Fc.
Pile Iron Pipe
Chain Link Fc.
Baseline "D"
4" Elm
Woven Wire Fence
Chain Link Fc.
Stump
Pension Office
20' Temp. Const. Esmt.
10" Walnut
Chain Link Fc.
Woven Wire Fc.
Hackberry
Stump
Woven Wire Fc.
Evergreen Sapl.
Basement
Bush Row
Baseline "D"
8" Elm
Stump
Evergreen
Elms
Evergreen
Bush Row
Mailbox
Buried CATV (Multimedia Cablevision)
Buried Tel. (Sprint)
Buried Tel. (Sprint)
Baseline "E"
Bush
Bush
3" Trees
4" Tall Bush
Board Fc.
2" Tall Bush
Bush
21" Elm
House
Gas Light
Sta. 6+52.45 .G5
LATERAL No. 4 =
Sta. 0+00.00
LATERAL No. 5

BM #10 - Railroad Spike in the east face of a Utility Pole 35' north of centerline Clark and 10' east of hedgerow along the west line of Spurrier Gardens Addition. Elev. 1360.74 (NGVD)

℄ "D" Sta. 3+18.05
3.00' Left

330.G9
Install ~~331.45~~ L.F.
8" Pipe

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

℄ "D" Sta. G+43.50
4.00' Left

Sta. G+52.45 .G5
LATERAL No. 4 =
Sta. 0+00.00
LATERAL No. 5

1360	1360	1360	1360	1360	1360
1350	1350	1350	1350	1350	1350
1340	1340	1340	1340	1340	1340
1330	1330	1330	1330	1330	1330

4-1
Top Elev.=1340.8
50.3'
℄ Elev.=1338.89

4-2
Top Elev.=1335.34
.38

℄ Elev. in = 1348.54
from LATERAL No. 5

℄ out=1342.34
.59
℄ in=1342.75
.84

30.G9
33~~1.45~~ L.F. 8" Pipe
@ 1.10%

3+00 4+00 5+00 6+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, SG, GH
Job No. 34-81051-10-322
Date August 1981

Sta. 7+26.20
MH 20

1/2" Iron Pipe
PI 2-D

Baseline "D"

4" Tall Bush
Board Fc.
2" Tall Bush
3" Trees
Saplings
Conc. Slab
Saplings
Trees
Pl. 3-D
Baseline "D"
Chain Link Fc.
8" Water line
Steel Gas line
Mailbox
Bush
Baseline "E"
Gas Light
House
4" Beech
8" Beech
21" Elm
8" Evergreen
Chain Link Fc.

℄ 20' San. Sew. Esmt.
LATERAL No. 47
10' Temp Const Esmt.

Sta. 10+33.70
Const. MH 21
Type A

℄ "D" Ext., Sta. 10+33.00
5.00' Right

Sta. 7+25.50
5.00' Right

Install 307.50 L.F.
8" Pipe

SPURRIER GARDENS

Install Wyes and Riser Pipe per the "WYE LOCATION TABLE" on Sht. No. 11

DELETED

MH 20
Top Elev.=
1356.4

MH 21
Top Elev.=
1360.5

℄ Elev.=1346.56

℄ out=1347.79
℄ in=1347.99

30.00 L.F. 8" P
@ 1.00%

7+00 8+00 9+00 10+00

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

MICHAEL D. SCHWAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-81080	RJ	4-97

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 4

Sht. 17 of 51

PART 3A

Sta. 6+52.45, Lateral No. 4
4-2

.65

Lateral No. 5
See sht. no. 19

LAHOMA

Remove and replace
8 Sq. Yds. Paved drive
8 Sq. Yds. Unpaved drive
See detail Sht. No. 10

Remove and Reset
Gas Meter

STREET

Remove and reset
fence as required

Sta. 7+83.30
Const. 4-3
Type A

94.20

Install 1-4" Stub
8.12 L.F. 4" Riser Pipe
See detail Sht. No. 8

IDENTICAL POINTS

Landscape Timber

18" Elm

6" Juniper

3/4" Rebar

PI 1-D

Bush Row

Baseline "D"

Lateral No. 4

10' San. Sew. Esmt.

20' Temp. Const. Esmt.

(Strawberry) Garden

SPURRIER GARDENS

Rt "E" Ext, Sta. 1+05.00
64.00' Right

141.55
Install 140.85 L.F.
8" Pipe

BM #10-Railroad Spike in the east face of a Utility Pole, 55' north of centerline Clark and 10' east of hedgerow along the west line of Spurrier Gardens Addition.
Elev. = 1360.74 (MSL)

94.20
Sta. 7+93.30, Lateral No. 4
4-3

SPURRIER

Strawberry Garden

4 Woven Wire

Remove and reset
fence as required

Remove and replace
29 Sq. Yds. Paved Road
See detail sht. No. 10

CAUTION!!
Buried Utilities

234.53
Install 230.56 L.F.
8" Pipe

Baseline "E"

10' San. Sew. Esmt.

Buried Tele. (SWB)

Lateral No. 4

20' Temp. Const. Esmt.

Garage

Garden

28.73
Sta. 10+23.86
Const. 4-4
Type A D.M.

Install 1-4" Stub
See detail sht. No. 8

CAUTION!!
Buried Tele.

Rt "E", Sta. 3+16.00
15.00' Rt.

GARDENS

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

4-2 Top Elev. = 1355.4

4-3 Top Elev. = 1355.4 5412

Existing Ground

IE IN = 1348.54 ✓
from Lateral No. 5

IE IN = 1344.95 (4")
from 4" Stub

IE out = 1342.54
IE IN = 1342.34
.84

IE out = 1343.73
IE IN = 1343.52
.95

141.55
~~140.85~~ L.F. 8" Pipe
@ 0.70%

G+00 7+00

MH 4-3 Top Elev. = 1355.4 5412

MH 4-4 Top Elev. = 1357.0 6.64

IE IN = 1344.66 (4")
from 4" Stub

IE out = 1343.73
IE IN = 1343.52
.95

234.53
~~230.56~~ L.F. 8" Pipe
@ 2.50%

IE IN = 1350.62 (4")
from 4" Stub

MH 4-4 Top Elev. = 1357.0 6.64

IE = 1349.63

8+00 9+00 10+00

1360 1350 1340 1330

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10-026
Drawn by TC, BC, CM | Date August 1981

66+98.35
~~Sta. 13+00.00~~, Main G A
Sta. 0+00.00, Lateral No. G
MGA-23

BELLAIRE

Pt 1-G

0.00 Baseline "G"

Asphalt Road

Sta. 1+~~36.87~~
Const. G-1
Type A 12" CMP

134.87 AVE.

Install 1-4" Stub
See detail, Sht. No. 8

15" CMP

Mailbox

18" CMP

IDENTICAL POINTS

Lateral No. G

Telco Box

10' San Sewer Esmt.

20' Temp. Gravel Const. Esmt.

Remove and replace
40 Sq. Yds. Unpaved drive
See detail, Sht. No. 10

Install 134.87 L.F.
8" Pipe

GARDENS

Rt "G", Sta. 1+42.00
35.00' Right

Install 70.00 L.F.
8" Pipe

Rt "G", Sta. 1+42.00
35.00' Left

Sta. 2+06.87
Const. G-2
Type D

04.55

CAUTION!!
Buried Utilities

Remove and replace
20 Sq. Yds. Paved road
5 Sq. Yds. Unpaved drive
See detail, Sht. No. 10

10'x10' San Sew. Esmt.

20'x20' Temp Const Esmt.

Remove and reset
15" CMP as required

Install 1-4" Stub
See detail, Sht. No. 8

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

BM #3-Chiseled "+" in the northwest corner of a concrete drive 31' south of centerline Bellaire and 32' east of centerline Greenwich Road.
Elev. = 1345.35 (MSL)

MAIN G A
See Sht. No. 13

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MGA-23 Top Elev. = 1347.7 48.27

G-1 Top Elev. = 1347.4 .45

G-2 Top Elev. = 1346.7 47.57

Existing Ground

IE IN = 1336.47 ✓
from MAIN G A

IE IN = 1340.84 (4")
from 4" Stub

IE out = 1336.40
IE IN = 1336.20
.45

IE out = 1340.23
IE IN = 1340.01
.68

134.87
~~136.87~~ L.F. 8" Pipe
@ 1.54%

0+00 1+00

IE out = 1340.23
IE IN = 1340.01
.68

IE = 1340.84

IE IN = 1340.84 (4")
from 4" Stub

IE = 1340.90

69.68
~~70.00~~ L.F. 8" Pipe
@ 0.40%

IE IN = 1341.32 (4")
from 4" Stub

2+00

1350 1340 1330 1320

MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

RECORD DRAWING
WDK PROJ. ENG. 8/16/82 DATE
RES. ENG. DATE

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	11/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 4 & 6

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 18 of 51

PART 3A

C5
Sta. 6+52.45, Lateral No. 4 =
Sta. 0+00.00, Lateral No. 5
4-2

SPURRIER

Lateral No. 4
See Sht. No. 17

Baseline "D"

Remove and reset fence as required

4' Woven Wire Fence

12' U Esm't.

20' Temp. Const. Esm't.

1" Juniper Row

1" Pine

2" Russian Olive

Remove and replace 16 Sq. Yds. Unpaved drive See detail, Sht. No. 10

Gas Meter to be Removed and reset by Gas Company as required

10" San. Sew. Esm't.

Lateral No. 5

2" Bush Row

℄ PI 1-D

℄ "D", Sta. 6+49.50
4' Left

3' Bush

5/8" Bar

W

8" CMP

18" CMP

Baseline "D-1"

24" Elm

Juniper Row

Install 191.00 L.F. 8" Pipe

92.15
Sta. 1+91.00
Const. MH 5-1
Type A

℄ "D-1", 1+95.02
0.17' Left

P.I. Baseline "D-1"

Asphalt

LA HOMA DRIVE

GARDENS

10" CMP

IDENTICAL POINTS

92.15
Sta. 1+91.00
5-1

Remove and replace 23 Sq. Yds. Paved road See detail, Sht. No. 10.

Install 1-4" Stub See detail, Sht. No. 8

Install 1-4" Stub See detail, Sht. No. 8

℄ "D-1", Sta. 1+93.69
6.82 Right

10'x10' San. Sew. Esm't.

Install 70 L.F. 8" Pipe

70.35

CAUTION!! Buried Utilities

G2.50
Sta. 2+61.00
Const. S-2
Type A

2" Pear

2" Sweet gum

Temp. Const. Esm't.

SCALE
0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vertical 10 5 0

BM "20" - Chiseled "□" in West corner of concrete slab 31' East of Centerline La Homa and 48' South of Centerline Bellaire. Elev. = 1358.015 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MH 4-2 Top Elev. 1355.46 58.38

MH 5-1 Top Elev. 1356.46 58.04

Existing Ground

℄ IN = 1342.74 .81
from Lat. No. 4

℄ OUT = 1342.54
℄ IN = 1342.54

℄ OUT = 1349.30
℄ IN = 1349.00

192.15
191.00 L.F. 8" Pipe
@ 0.40%

MH 5-1 Top Elev. 1356.46 58.04

MH 5-2 Top Elev. 1359.97 59.20

Water Meter Top of Pipe 1353.7

℄ IN = 1350.44 (4")
from 4" Stub (SW)

℄ IN = 1350.13
from 1-4" Stub (NW)

℄ OUT = 1349.30
℄ IN = 1349.00

℄ OUT = 1347.59
℄ IN = 1347.45

70.00 L.F. 8" Pipe
@ 0.40%

0+00 1+00 2+00

1360 1350 1340 1330

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-32238
Date July, 1992
Designed by MDS, MDK
Drawn by JLM

PLAN
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
ELEV. DATUM CHECKED
NO. BY DATE

12.80
Sta. 8+13.10, Lateral No. 7
7-3

SPURRIER

20' Temp. Const. Esm't.

4' Chainlink Fence

10.52 Sq. Yds. Sew. Esm't.

Remove and reset fence as required

2" Bush Row

Remove and replace 24 Sq. Yds. Paved road See detail, Sht. No. 10

.34
Sta. 8+84.08
Const. MH 7-4
Type A

Install 1-4" Stub See detail, Sht. No. 8

Lateral No. 7

5/8" Bar

Temp. Const. Esm't.

10'x10' San. Sew. Esm't.

Lateral No. 7
See Sht. No. 21

71.54

Install 70.98 L.F. 8" Pipe

Install 1-4" Stub See detail, Sht. No. 8

℄ "I", Sta. 1+82.00
22.98' Right

P.I. I-1

CAUTION!! Buried Utilities

℄ "I", Sta. 1+82.00
48.00' Left

BM "20-Chiseled "□" in West corner of concrete slab 31' East of Centerline La Homa and 48' South of Centerline Bellaire. Elev. = 1358.015 (MSL)

.08
Sta. 1+39.66, Lateral No. 8
8-1

Sta. 1+46 to 1+66
Const. 20 L.F. 8" Concrete Encasement. See specifications

Remove and replace 23 Sq. Yds Paved road See detail, Sht. No. 10

Lateral No. 8
See Sht. No. 21

℄ "J" Sta. 1+12.00
24.39' Left

Existing tree row to be spared and protected from damage.

Install 2-4" Stubs & 40 L.F. 4" Riser Pipe See detail, Sht. No. 8

10'x10' Temp. Const. Esm't.

℄ H-1 Sta. 1+21.00
12.5' Left

Lateral No. 8

20' San. Sewer Esm't.

242.72
Install 243.25 L.F. 8" Pipe.

20' Temp. Const. Esm't.

CAUTION!! Buried Utilities

BM "21-Chiseled "□" in North edge of concrete driveway 17' West of Centerline La Homa and 91' North of Centerline Kinkaid Elev. = 1358.78 (MSL)

81.80
Sta. 3+82.25
Const. MH 8-2
Type A

MICHAEL D. SCHUMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

SCALE
0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vertical 10 5 0

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MH 7-3 Top Elev. 1352.38 58.58

Waterline 8" Top of Pipe 1352.9

Existing Ground

MH 7-4 Top Elev. 1357.59 58.59

MH 8-1 Top Elev. 1357.68 57.08

Waterline 8" Top of Pipe 1352.5

MH 8-2 Top Elev. 1360.06 61.03

.88
℄ IN = 1349.78 (4")
from 4" Stub

℄ IN = 1350.41
from 1-4" Stub (SW)

.40
℄ IN = 1350.26 (4")
from 2-4" Stubs (NW & NE)

℄ IN = 1349.69
from 4" Stub (S)

.04
℄ IN = 1353.78
from 2-4" Stubs (S)

℄ IN = 1353.07
from 1-4" Stub (SSE)

℄ OUT = 1349.60
℄ IN = 1349.45

71.54
70.98 L.F. 8" Pipe
@ 0.40%

50.07
℄ = 1349.93

℄ OUT = 1347.36
℄ IN = 1347.22

.33
.58
1.46
1.66

242.72
243.25 L.F. 8" Pipe
@ 1.60%

.83
℄ = 1353.45

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

8+00 9+00 2+00 3+00

1360 1350 1340 1330


SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 5,7&8
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 19 of 51

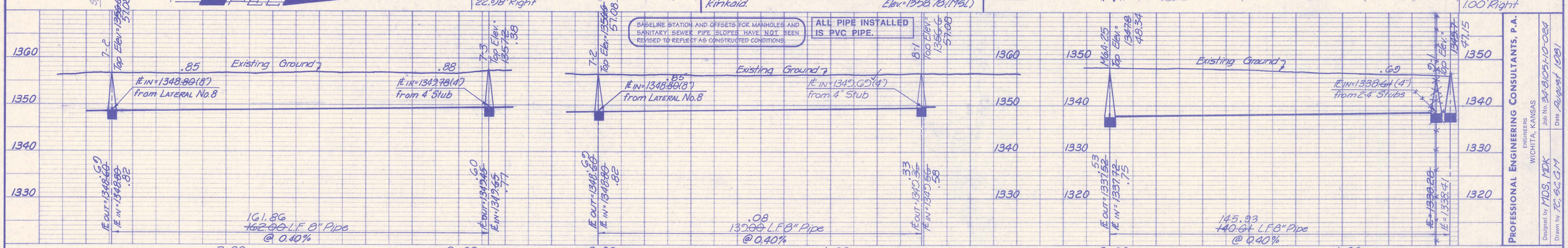
PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
ELEV. DATUM CHECKED
NO. BY DATE

PART 3A



69+88.49
Sta. 15+90.62, MAIN 6A
Sta. 0+00.00, LATERAL No. 7
MGA-24
PI 2-C
0+00
Baseline "H"
Shed
5/8" Rebar
Elect. Fc.
Woven Wire Fc.
Raspberry Row
LATERAL No. 7
℄"C", Sta. 13+50.50
3.32' Left
Osage Orange
Hedgerow
20' Temp. Const. Esmt.
Rose Bush Row
Easement
Chain Link Fc
15" Osage Orange
Garage
MAIN 6A
See Sht. No. 13
BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.
ALL PIPE INSTALLED IS PVC PIPE.
SPURRIER
GARDENS
Install 320.00 L.F. 314.30
8" Pipe
Sta. 3+20.00 14.30
Const. 7-1
Type A
℄"H", Sta. 3+17.08
23.82' Right
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert.
BM#3-Chiseled "+" in the northwest corner drive 31' South of centerline Bellaire and 32' east of centerline Greenwich Road
Elev.=1345.35 (MSL)
1360
1350
1340
1330
Existing Ground
MGA-24
Top Elev.=1348.9 49.20
℄ OUT=1337.13 37.00
℄ IN=1338.13 38.96
7-1
Top Elev.=1353.7 54.23
℄ OUT=1342.95
℄=1342.97
℄ IN=1343.05
314.30
320.00 L.F. 8" Pipe
@ 1.20%
0+00
1+00
2+00
3+00
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, SC, GM
Job No. 34-8105-10-024
Date August 1981
Sta. 3+20.00
7-1
Junk Pile
Remove and reset fence as required
5+00
Sta. 6+51.10 50.94
Const. 7-2
Type A
Wood Shed
House
Gravel Drive
Baseline "J"
LATERAL No. 8
See Sht. No. 21
Split Rail Fc.
Buried CATV (Multimedia Cablevision)
PI 0-I
0+00
Mailbox
Osage Orange Hedgerow
Saplings
20' Temp. Const. Esmt.
℄"I", Sta. 0+20.00
23.74' Right
LAHOMA STREET
Baseline "I"
12" CMP
13" Maple
336.64
Install 331.10 L.F.
8" Pipe
Conc. Slab
Mulberry
Hackberry
Install Wyes and Riser Pipe per the "Wye Location Table" on Sht. No. 11
Gravel Drive
BM#20-Chiseled "□" in the west corner of a concrete Slab, 31' east of centerline Lahoma and 48' south of centerline Bellaire.
Elev.=1358.02 (MSL)
RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE
MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER
7-1
7-1 Top El.=1354.23
Top Elev.=1353.7
℄ OUT=1342.95
℄=1342.97
℄ IN=1343.05
7-2
Top Elev.=1356.6 .57.08
℄ IN=1348.80 (8") .85
from LAT. No. 8
℄ OUT=1348.60 .69
℄ IN=1348.80 .82
336.64
331.10 L.F. 8" Pipe
@ 1.70%
4+00
5+00
6+00
1 Update per P.E.C. Proj. No. 34-91080 RJ 4/91
No. Revision By Date
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LATERAL NO. 7
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT
Sht. 20 of 51
PART 3A

Sta. 0+50.94
Sta. 0+51.0
LAHOMA STREET
Remove and replace 13 Sq. Yds. Unpaved drive See detail, Sht. No. 10
Gas Meter to be removed and reset by Gas Company as required
Sta. 8+13.10 Const. 7-3 Type A
12.80
Baseline "I"
Lateral No. 8
Lateral No. 7
Remove and reset fence as required
10' San. Sew. Esmt
161.86
Install 1-162.00 L.F. 8" Pipe
Install 1-4" Stub See detail, sht. no. 8
20' Temp. Const. Esmt
Remove and Replace 19 Sq. Yds. Paved Dr. See detail, sht. no. 10
Ø"I", Sta. 0+20.00 23.74' Right
SPURRIER GARDENS
PEC
Ø"I", Sta. 1+82.00 22.98' Right
Sta. 0+50.94
Sta. 0+51.3
Lateral No. 7
Sta. 0+00.00, Lateral No. 8
T=2
SPURRIER GARDENS
Remove and replace 17 Sq. Yds. Unpaved drive See detail, Sht. No. 10
Sta. 1+35.00 Const. 8-1 Type A
.08
Install 1-4" Stub @ 20 L.F. 4" Riser Pipe See detail, Sht. No. 8
20' Temp. Const. Esmt
10' San. Sew. Esmt
Lateral No. 8
Install 135.00 L.F. 8" Pipe
Ø"J", Sta. 1+12.00 24.30' Left
Lateral No. 8 See Sht. No. 15
Baseline "J"
LAHOMA STREET
PEC
BM#21-Chiseled "□" in the north of a concrete driveway, 17' west of centerline LAHOMA and 22' north of centerline kinkaid. Elev.=1358.78 (MSL)
Ø"C", Sta. 15+18.00 3.93' Left
7I+48.18
Sta. 7I+48.18, MAIN GA
Sta. 0+00.00, Lateral No. 9
MGA-25
SPURRIER GARDENS
Remove and reset fence as required
20' San. Sew. Esmt
Baseline "C-2"
Lateral No. 9
145.93
Install 140 G.L.F. 8" Pipe
20' Temp. Const. Esmt
Utility Pole to be removed and reset by Utility Company as required
45.93
Sta. 1+40 Gt Const. 9-1 Type A
Install 2-4" Stubs See Detail, sht. No. 8
MAIN GA See Sht. No. 13
Ø"C-2", 1+43.00 1.00 Right
Conc. Pad
20' Temp. Const. Esmt
Sta. 0+00
Sta. 0+00
Sta. 1+00
Sta. 1+00



BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

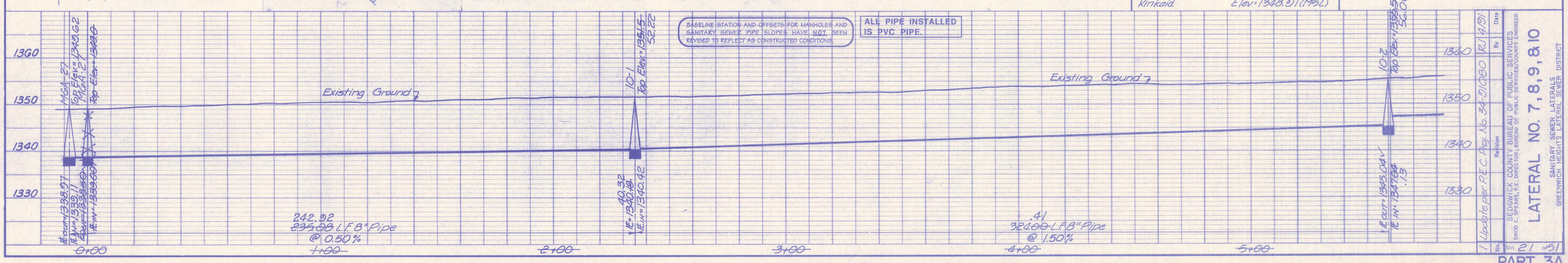
ALL PIPE INSTALLED IS PVC PIPE.

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by: MDS, MDK
Drawn by: TC, BC, CJM
Job No. 34-81091-01-02
Date: August 1991

76+57.80
Sta. 22+59.62, MAIN GA
Sta. 0+00.00, Lateral No. 10
MGA-27
Junk Pile
Elec. Wire Fc.
Baseline "K"
Lateral No. 10
Woven Wire Fc.
Ø"C", Sta. 20+28.50 7.0' Left
MAIN GA See Sht. No. 14
Conc. Ret. Wall
Sta. 2+35.08 Const. 10-1 Type A
42.92
Remove and reset fence as required
SPURRIER ADDITION
SPURRIER GARDENS
242.92
Install 235.00 L.F. 8" Pipe
Ø"K", Sta. 2+28.00 10.39' Right
Install Wyes and Riser Pipe per the "Wye Location Table" on Sht. No. 11
Baseline "K"
20' Temp. Const. Esmt
10' San. Sew. Esmt
8' Easement
Install 324.00 L.F. 8" Pipe
Sta. 5+59.08 Const. 10-2 Type B
67.33
Baseline "K"
Ø"K", Sta. 5+52.00 9.72' Right
BM#22-Chiseled "□" in the west edge of a concrete bridge to driveway at 11025 Kinkaid Elev.=1343.91 (MSL)
PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above Vert. 10 5 0
0+00
1+00
2+00
3+00
4+00
5+00

RECORD DRAWING
MDK PROJ. ENG. 7/12/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOWALTER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER



BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

No.	By	Date	Revision
1	RJ	4/9/91	Update per P.E.C. Proj. No. 34-91080

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 7, 8, 9, & 10
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 21 of 51

PART 3A

SPURRIER ADDITION

SPURRIER GARDENS

Baseline "M"
PI 0+00
0+00

Baseline "K"

Sta. 5+59.08 (G7.33)
10-2

℄ "K", Sta. 5+52.00
0.72' Right

20' Temp. Const. Esmt.
10' San. Sew. Esmt.
LATERAL No. 107
8' Easement

1/2" Iron Pipe
Woven Wire Fc.
5/8" Rebar
3/4" Iron Pipe
1" Galvanized Pipe

Sta. 8+73.08
Const. 10-3
Type A
81.37

PI 1+K

Install 1-4" Stub
See detail sht. no. 8

Install 314.00 L.F.
8" Pipe
.04

℄ "K", Sta. 8+66.00
10.00' Right

BM #21-Chiseled "□" in the north edge of a concrete driveway, 17' west of centerline Lahoma and 91' north of centerline Kirkaid.
Elev. = 1358.78 (MSL)

PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vert. 10 5 0

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Existing Ground

10-2
Top Elev. = 1355.55
56.06

IE OUT = 1345.04
IE IN = 1347.94
.13

10-3
Top Elev. = 1392.26
63.04

IE IN = 1358.62 (4")
from 4" Stub
.64

IE = 1353.98
.22

.04
314.00 L.F. 8" Pipe
@ 1.96%

1360
1350
1340
1330

6+00 7+00 8+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDB, MDS | Job No. 347-91054-10-024
Drawn by TG, SC, CM | Date August 1991

Sta. 8+73.08
MH 30

Install Wye and Riser Pipe per the "WYE LOCATION TABLE" on Sht. No. 11

Baseline "K"

10.00

Remove and reset fence as required

Utility Pole to be removed and reset by Utility Company as required

Wood Fence

Install 400.00 L.F. 8" Pipe

BM #23-Railroad Spike in the southwest face of a Utility Pole, 41' north of centerline Pawnee and approximately 800' west of Greenwich Road.
Elev. = 1360.12 (MSL)

DELETED

Barn

Sta. 12+73.08
Const. MH 37
Type A

℄ "K", Sta. 12+61.05
13.00' Left

MH 36
Top Elev. = 1362.6

MH 37
Top Elev. = 1362.94

IE OUT = 1358.19
IE IN = 1353.39

IE = 1354.99

400.00 L.F. 8" Pipe
@ 0.40%

1370
1360
1350
1340

9+00 10+00 11+00 12+00

RECORD DRAWING
MDK PROJ. ENG. 7/16/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per PEC Proj. No. 347-91080	KJ	4/4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 10
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 22 of 51

PART 3A

80+78.70
Sta. ~~26+88.82~~ Main GA -
Sta. 0+00.00, Lateral No. 11
MGA-29

Bldg
Conc. Slab
6' Sidewalk
4' Sidewalk
Gutterpuits
Catlight
Main GA
See Sht. No. 14
Baseline "C"
℄ "C" Sta. 24+58.81
6.90' Left
SPURRIER
Pt. 1-K-1
0+00
Ring le Strand Fe.
Shed
Remove and Reset fence as required
Baseline "K-1"
10' Temp. Const. Esm't.
10' 3 San. Sew Esm't.
Lateral No. 11
10' Temp. Const. Esm't.
Install 336.72 L.F. 8" Pipe
.17
Sta. 3+36.72
Const. 11-1
Type A
Barbed Wire Fence
Wood Fence
Remove and Relocate shed. (off San. Sew. Esm't)
Remove and Reset fence as required
Install 324.00 L.F. 8" Pipe
.66
℄ "K-1" Sta. 3+29.81
5.03' Right
ADDITION
SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MGA-29
Top Elev.= ~~1349.8~~ 1350.44
Existing Ground
11-1
Top Elev.= 1352.96 53.43
1360
1350
1340
1330
~~.36~~ .32
Eout= ~~1340.32~~ 1340.68
~~.56~~ .52
E IN= 1340.~~77~~ 1341.16
.17
336.~~72~~ L.F. 8" Pipe
@ 0.40%
.89
E= 1341.82
E IN= 1342.01
.66
324.~~00~~ L.F. 8" Pipe
@ 1.50%
(Continued below)
0+00 1+00 2+00 3+00 4+00 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by GM
Job No. 34-91080
Date April, 1991

shed
Wood Fe.
SPURRIER
Barbed Wire Fence
Broken Down Barbed Wire Fence
Sta. 6+60.72
Const. 11-2
Type A
.83
Shed
Slab
Install 1-4" Stub
See detail, sht no. 8
Sta. 9+89.72
Const. 11-3
Type A
.57
Catch Basin
Pt. 4-K-1
.12
Baseline "K"
10' Temp. Const. Esm't.
10' San. Sew. Esm't.
℄ LATERAL No. 11
10' Temp. Const. Esm't.
328.74
Install ~~329.00~~ L.F. 8" Pipe
℄ "K-1" Sta. 6+53.81
5.05' Right
℄ "K-1" Ext. Sta. 9+82.81
5.08' Right
ADDITION
RECORD DRAWING
MDK PROJ. ENG. 7/2/97 DATE
RES. ENG. DATE
MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1370
1360
1350
1340
11-2
Top Elev.= 1357.5 .73
Existing Ground
11-3
Top Elev.= 1363.0 64.93
.88
E= 1340.68
.29
E IN= 1354.24 (4")
from 1-4" stub
.23
E= 1353.93
328.74
~~329.00~~ L.F. 8" Pipe
@ 2.20%
(Continued from above)
5+00 6+00 7+00 8+00 9+00

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR; BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 11

Sht. 23 of 51

PLAN: SURVEYED, DESIGNED, NOTE BOOK, ALIGNMENT CHECKED, R/W PLAT CHECKED, DRAWN, QUANTITIES CHECKED, R/W PLAT MATCH ADJ., CHECKED, NO., BY, DATE

PROFILE: SURVEYED, DESIGNED, NOTE BOOK, DRAWN, QUANTITIES CHECKED, R/W PLAT MATCH ADJ., CHECKED, NO., BY, DATE

PART 3A

54+10.88
Sta 0+00.00, MAIN G A
Sta 0+15.00, LATERAL No. 13
MGA-13 0+00.00

℄ "B" Sta. 0+60.00
10.10' Left

Baseline "B"

PI O-B
0+00

PI O-A
0+00

Baseline "A"

MAIN GA
See Sht No. 12

SPURRIER

CAUTION!! Buried Utilities

Sta 0+~~84.05~~ 99.92
Const. 13-1
Type A

*PRIOR TO BEGINNING CONSTRUCTION OF LATERAL NO. 13, CONTRACTOR SHALL EXCAVATE AT EACH END OF THE EXISTING 20" STEEL CASING PIPE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION. IF FIELD INFORMATION IS DIFFERENT THAN AS SHOWN ON THE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT ANY PLAN MODIFICATIONS MAY BE MADE.

Pasture

Remove and reset fence as required

20' Temp. Const. Esmt

15' San. Sew. Esmt

4 Strand Barb Wire Fence

Row of Osage Orange Trees

Utility Pole to be removed and reset by Utility Company as required

℄ "A" Sta. 0+40.00
30.00' Right

Contractor shall remove temporary masonry plugs and install 99.95 L.F. 8" PVC thru the existing 20" Steel Casing Pipe*

Install 99.95 L.F. 8" PVC Pipe

Lateral No. 14
See Sht. No. 31

Gravel Road

BM "C" - Railroad Spike in the east face of Utility Pole, 30' west of the west ¼ corner of Sec. 34, T27S, R2E. Elev. = 1344.10 (MSL)

SPURRIER'S SUNSWEPT ACRES

91.96
Install 392.10 L.F.
8" PVC Pipe

℄ "A" Sta. 4+32.10
28.40' Right

LATERAL No. 13

Sta. 4+~~77.05~~
Const. 13-2
Type D

91.88

5+00

Osage Orange Trees

G. Chain Link Fence

Driveway

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MGA-13
Top Elev. = 1345.1

13-1
Top Elev. = 1344.7
42.18

Existing Ground

Top Elev. = 1338.59
05

Existing 20" Steel Casing Pipe*

Top Elev. = 1339.04
2.80

℄E IN = 1327.74 (8")
from LATERAL No. 14

℄E OUT = 1326.59
℄E IN = 1327.17

99.95 L.F. 8" PVC Pipe
@ 0.30 %

13-2
Top Elev. = 1334.0
35.62

Existing Ground

℄E = 1328.65
℄E = 1328.83

91.96
392.10 L.F. 8" PVC Pipe
@ 0.30 %

0+00 1+00 2+00 3+00 4+00

1350 1340 1330 1320

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, SC, GM
Job No. 34-81051-10-021
Date August 1981

Sta 0+~~66.15~~ 83.57
Const. 13-3
Type B

PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vert. 10 5 0

Gravel

Remove and replace 28 Sq. Yds. paved road See detail, Sht. No. 10

Remove and reset fence as required

PI 1-A

20' Temp. Const. Esmt

5' San. Sew. Esmt't.

LATERAL No. 13

Osage Orange Trees

10' Utility Esmt

1/2" Iron Pipe

LATERAL No. 20
See Sht. No. 41

RECORD DRAWING
MDK PROJ. ENG 7/15/92 DATE
SES. ENG. DATE

MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

BM "17" - Railroad Spike in the southeast face of a 30" Elm, 23' west of centerline Crest and 104' south of the north line of the southwest ¼, Sec. 34, T27S R2E.
Elev. = 1340.45 (MSL)

SPURRIER'S

℄ "A" Sta. 4+32.10
28.40' Right

SUNSWEPT

391.69
Install 392.10 L.F.
8" PVC Pipe

~~Install ... and Pipe ... per the ... LOCATION TABLE ON SHEET NO. ...~~

ACRES

℄ "A" Sta. 0+04.50
53.06' Left

PI 2-A
Baseline "B" 0+00
Baseline "A"

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

13-2
Top Elev. = 1340
35.62

Existing Ground

℄E = 1328.65
℄E = 1328.83

391.69
392.10 L.F. 8" PVC Pipe
@ 0.30 %

13-3
Top Elev. = 1339.3
41.44

Existing Ground

℄E IN = 1331.32 (8")
from LATERAL No. 20

℄E = 1329.32
℄E IN = 1329.92

5+00 6+00 7+00 8+00

1350 1340 1330 1320

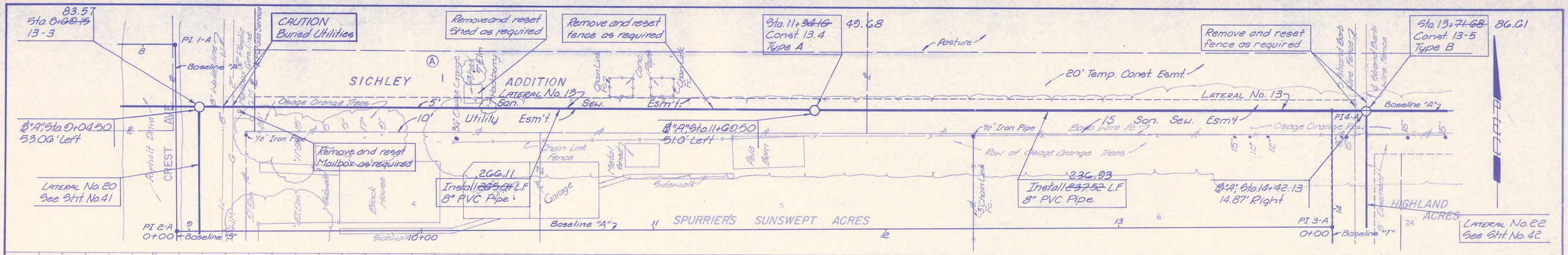
No.	Revision	By	Date
1	Update per PEC Proj No. 34-91080	RJ	4/6/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID L. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 13
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 21 of 51

PART 3B

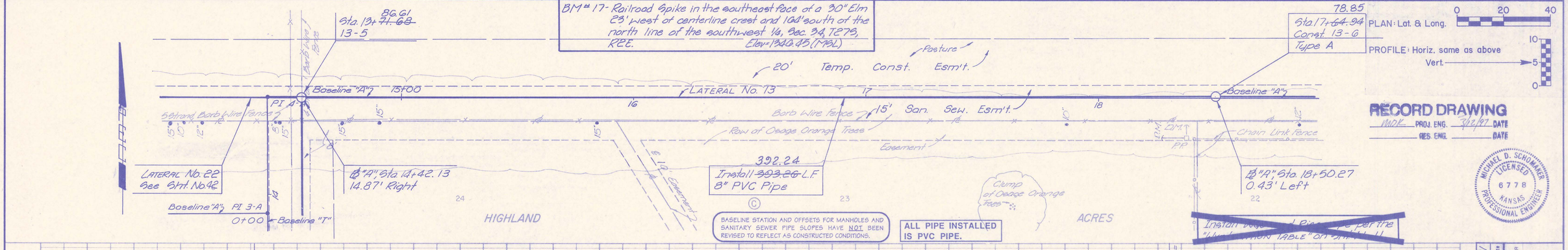


BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-81061-0.02
Date: August 1991
Designed by: MDS, MDK
Drawn by: TC, BG, CAM

BM # 17- Railroad Spike in the southeast face of a 30" Elm 23' west of centerline creek and 164' south of the north line of the southwest 1/4, Sec. 34, T27S, R2E. Elev = 1340.45 (MSL)



BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

RECORD DRAWING
MDK PROJ. ENG. 3/2/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

No.	By	Date	Revision
1		12/19/91	Locate per REC. Proj. No. 34-91080-0.01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 13

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 25 of 31

PART 3B

B.M. #14 - Chiseled "X" in the north end of the east concrete Headwall of a Driveway Culvert 16' south of centerline Clark and 110' west of centerline Richfield.
Elev. = 1349.00 (MSL)

78.85
Sta. 17+~~64.94~~
13-6

20' Temp. Const. Esm't.

Pasture

Baseline "A"

LATERAL No. 13

Baseline "A"

73.56
Sta. 21+~~58.20~~
Const. 13-7
Type B

18 19 20+00 21 22 0+00 PI O-X

D.M. D.M. F.P. 12" Chain Link Fence

Row of Osage Orange Trees

15' San. Sew. Esm't.

Strand Barb Wire Fence

12" D.M. P.P. 12" Chain Link Fence

Easement

Ø "A" Sta. 18+50.27
0.43' Left

394.71
Install ~~393.26~~ L.F.
8" PVC Pipe

Ø "A" Sta. 22+43.53
0.79' Left

E.O. Easm't. of Strand Barb Wire Fence

Chicken Coop

Chain Link Fence

Baseline "X"

LATERAL No. 25
See Sht. No. 47

23 22 HIGHLAND © 21 ACRES

Existing Ground

13-6 Top Elev. = 1348.7 47.16

13-7 Top Elev. = 1348.9 49.45

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350 1340 1330 1320

Ø IN = 1332.51

Ø IN = 1333.34 (8") from LATERAL No. 25

Ø IN = 1333.59

394.71
~~393.26~~ L.F. 8" PVC Pipe
@ 0.30 %

18+00 ~~19+00~~ 20+00 21+00

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, BC, GM
Job No. 34-81051-10-024
Date August 1981

73.56
Sta. 21+~~58.20~~
13-7

Pasture

Sta. 24+~~34.50~~ 48.41
Const. 13-8
Type A

Sta. 27+~~10.80~~ 25.70
Const. 13-9
Type D

20' Temp. Const. Esm't.

LATERAL No. 13

Baseline "A"

0+00 PI O-X 23 24 25+00 26 27 Baseline "A" PI 5-A

Row of Osage Orange Trees

Barb Wire Fence 15' San. Sew. Esm't. 1/2" Iron Pipe

5' Chain Link Fence

Easement

Outward Flow

LATERAL No. 25
See Sht. No. 47

Chicken Coop

Ø "A" Sta. 22+43.53
0.79' Left

274.85
Install ~~276.30~~ L.F.
8" PVC Pipe

Ø "A" Sta. 25+19.83
1.24' Left

277.29
Install ~~276.30~~ L.F.
8" PVC Pipe

Ø "A" ext., Sta. 27+96.12
1.68' Left

20 HIGHLAND © 18 ACRES 17

Install ~~Manhole~~ and Riser Pipe per the "Installation Table" on Sht. No. 11

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

Existing Ground

13-7 Top Elev. = 1348.9 49.45

13-8 Top Elev. = 1345.2 45.75

13-9 Top Elev. = 1340.6 41.23

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350 1340 1330 1320

Ø IN = 1334.30 (8") from LATERAL No. 25

Ø IN = 1333.63

Ø IN = 1334.52

Ø IN = 1334.63

Ø OUT = 1335.33
Ø IN = 1335.15

274.85
~~276.30~~ L.F. 8" PVC Pipe
@ 0.30 %

277.29
~~276.30~~ L.F. 8" PVC Pipe
@ 0.30 %

22+00 ~~23+00~~ 24+00 25+00 ~~26+00~~ 27+00

RECORD DRAWING
MDK PROJ. ENG. DATE
RES. ENG. DATE

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-81080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
David C. Spears, P.E. Director, Bureau of Public Services/County Engineer

LATERAL NO. 13

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht 20 of 51

PART 3B

Sta. 27+~~10.80~~ 25.70
13-9

20' Temp. Const. Esmt.

Cultivated Field

Sta. ~~30+87.90~~ 31+02.83
Const 13-10
Type D

Cultivated Field

Osage Orange

Osage Oranges

20' San. Sew. Esmt.

Row of Osage Orange Trees

Barb Wire Fence

Barb Wire Fc.

Baseline "A"

PI 5-A

DM

PP

Easement

5' Pine

Water

3" Juniper

2" Conc. Post

Metal Shed

Evergreen

Cedar

℄ "A" ext. Sta. 27+~~10.80~~ 12
1. 68' Left

HIGHLAND

Install 377.~~10~~ L.F
8" PVC Pipe

BM #14 - Chiseled "X" in the north end of the east concrete Headwall of a Driveway culvert, 16' south of centerline Clark and 110' west of centerline Richfield. Elev = 1340.00 (NGVL)

℄ "A" Sta. 31+22.76
45.32' Left

ACRES

376.15
Install 377.~~10~~ L.F
8" PVC Pipe

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

13-9
Top Elev = ~~1345.98~~ 1344.23

13-10
Top Elev = 1341.18
12.37

Existing Ground

~~1345.35~~ 1344.48
~~1335.45~~ 1335.57

~~1336.59~~ 1336.64

.13
377.~~10~~ L.F. 8" PVC Pipe
@ 0.30%

376.15
377.~~10~~ L.F. 8" PVC Pipe
@ 0.30%

(continued below)

1350
1340
1330
1320

~~28+00~~ ~~29+00~~ ~~30+00~~ ~~31+00~~ ~~32+00~~

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-810SH-0028
Drawn by TC, SC, GM | Date August 1981

Sta. 32+90 to Sta. 33+10
Const. 20 L.F. 8"
Concrete Encasement
See specifications

Sta. 34+~~65.00~~ 78.98
Const 13-11
Type A

20' Temp. Const. Esmt.

Sta. 38+~~42.10~~ 56.27
Const 13-12
Type A

Cultivated Field

Osage Orange

20' San. Sew. Esmt.

Row of Osage Orange Trees

Barb Wire Fence

Easement

2" Iron Pipe

Baseline "A"

PI 6-A

Evergreen

Cedar

Metal Shed

℄ "A" Sta. 34+~~99.83~~
41.43 Left

HIGHLAND

PLAN: Lat. & Long.

PROFILE: Horiz. same as above
Vertical

Install 377.~~10~~ L.F
8" Pipe

ACRES

℄ "A" Sta. 38+75.89
38.37 Left

MICHAEL D. SCHUMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

13-11
Top Elev = ~~1345.98~~ 1345.82

13-12
Top Elev = 1351.~~98~~ 77

Existing Ground

Concrete Encasement

Type III Backfill

~~1333.72~~ 1333.83

~~1343.18~~ 1343.23

22
377.~~10~~ L.F. 8" Pipe
@ 1.45%

(continued from above)

RECORD DRAWING
MDK PROJ. ENG. 3/12/87 DATE
RES. ENG. DATE

1360
1350
1340
1330

~~33+00~~ ~~34+00~~ ~~35+00~~ ~~36+00~~ ~~37+00~~ ~~38+00~~

No	Update per P.E.C. Proj. No. 34-910080	12/14/91
	Revision	By Date

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO 13

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 27 of 51

PART 3B

Sta. ~~38+42.10~~ 38+50.27
13-12

Cultivated Field

8" Osage Orange

20' Temp. Const. Esm't.

20' San. Sew. Esm't

LATERAL No. 13

Row of Osage Orange Trees

Barb Wire Fence

1/2" Iron Pipe

Baseline "A"

40+00

"A" Sta. 38+75.89
38.37' Left

HIGHLAND

Install 377.10 L.F.
8" Pipe

Buried Tile (5x18)

Sta. ~~42+19.20~~ 42+33.03
Const. 13-13
Type A

"A" Sta. 42+52.93
44.66' Left

ACRES

Easement

Legion

Install ~~377.10~~ 376.10 L.F.
8" Pipe

BM #10-Chiseled "a" in the southeast corner of a Concrete Driveway at 2241 Richfield, 18' west of centerline Richfield.
Elev.=1358.08 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

13-12 Top Elev.=1351.68

Existing Ground

E=1343.18

376.76
~~377.10~~ L.F. 8" Pipe
@ 0.80%

13-13 Top Elev.=1353.3

E=1346.32

376.10
~~377.10~~ L.F. 8" Pipe
@ 0.40%

(continued below)

~~39+00~~ 40+00 41+00 ~~42+00~~ ~~43+00~~ ~~44+00~~

1360 1350 1340 1330

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-8105-10-024
Drawn by TC, BCG, MM | Date August 1981

Sta. ~~45+96.30~~ 46+09.13
Const. 13-14
Type A

20' Temp. Const. Esm't.

20' San. Sew. Esm't.

Row of Osage Orange Trees

Barb Wire Fence

Cultivated Field

Baseline "A"

45+00

"A" Sta. 46+29.98
50.94' Left

HIGHLAND

Install ~~Right and Piece Pipe per the "Wye and Tee Option Table on Detail No 11~~

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Easement

3 Wire Fence

378.66
Install ~~377.10~~ L.F.
8" Pipe

ACRES

Sta. 49+~~73.40~~ 87.79
Const. 13-15
Type A

"A" Sta. 50+07.02
57.22' Left

SCALE
0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vertical — 10 5 0

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

13-14 Top Elev.=1356.82

Existing Ground

E=1347.96

(continued from above)

13-15 Top Elev.=1360.33

E=1340.25

378.66
~~377.10~~ L.F. 8" Pipe
@ 0.40%

RECORD DRAWING
MDK PROJ. ENG. 3/17/87 DATE
RES. ENG. DATE

~~44+00~~ 45+00 46+00 47+00 48+00 49+00

1360 1350 1340 1330

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	KJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 13
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 28 of 51

PART 3B

Sta. ~~49+73.40~~ 87.79
13-15

Cultivated Ground

Row of Osage Orange Trees

Osage Orange

Barb Wire Fence

LATERAL No. 137

20' Temp. Const. Esm't.

20' San. Sew. Esm't.

Flower Bed

Sta. ~~53+50.50 back~~ =
Sta. ~~53+01.13 ahead~~
Const. 13-16
Type A

53+64.95

ROAD

PAWNEE

0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert. 10 5 0

℄ "A" Sta 50+07.02
57.22' Left

Install 377.16 L.F.
8" Pipe

Easement .16

Baseline "A"

50+00

HIGHLAND ACRES

52

53

Baseline "A"

P.I. 7-A

℄ "A" Ext Sta 53+84.07
63.50' Left

B.M. "D" - Railroad Spike in the west face of a Utility Pole, 25' east of centerline Richfield and 3.0' north of centerline Pawnee Elev. = 1364.06 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1370
1360
1350
1340

13-15
Top Elev = 1355.00
~~20.33~~

Existing Ground

13-16
Top Elev = 1362.20
~~.49~~

~~.25~~
℄ Out = 1340.~~17~~

~~.83~~
~~135.82~~
℄ IN = ~~1352.92~~
~~51.07~~

377.16 L.F. 8" Pipe
@ 0.60%

50+00 51+00 52+00 53+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-31051-10-024
Date August 1991
Designed by MDS, MDK
Drawn by TC, RC, GM

Sta. 53+64.95
Sta. ~~53+50.50 back~~
Sta. ~~53+01.13 ahead~~
13-16

Remove and replace 175 sq. Yds. Paved drive See detail, Sht. No. 10

Remove and reset CMP as required

CAUTION!! Buried Utilities

Remove and replace 136 sq. Yds. Gravel drive See detail Sht. No. 10

Remove and reset CMP as required

Sta. ~~55+81.55~~ 56+46.15
Const. 13-17
Type A

Construct ~~79.72~~ 81.04 L.F. 16" Boring and Install ~~79.72~~ 81.04 L.F. 8" Pipe and ~~79.72~~ 81.04 L.F. 16" Steel Enc'mt. See detail, Sht. No. 10

Sta. ~~55+81.55~~ 56+46.15
13-17

GREENWICH HEIGHTS FIRST ADDITION

Sta. ~~56+81.27~~ 57+27.19
Const. 13-18
Type C

PAWNEE

ROAD

Asphalt

Lateral No. 13

Baseline "A"

Identical Points

PI 7-A 54 Baseline "A"

55+00

PI 8-A 56

PI 8-A

Lateral No. 132

Baseline "Z"

0+00 PI 0-Z

Lateral No. 13

20' Temp. Const. Esm't.

20' Util. Esm't.

℄ "A" Ext Sta 53+84.07
63.50' Left

℄ "A" Sta 55+05.50
5.0' Left

℄ "A" Sta 56+83.50
2.49' Left

CAUTION!! Buried Utilities

Lateral No. 27
See Sht. No. 49

HIGHLAND ACRES

PAWNEE

~~Install 280.42 L.F. 8" Pipe~~

281.20 Install 281.20 L.F. 8" Pipe

℄ Sta 55+05.50
5.0' Left

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1370
1360
1350
1340

13-16
Top Elev = 1362.20
~~.49~~

13-17
Top Elev = 1365.4
~~66.32~~

Existing Ground

~~.83~~
~~135.82~~
℄ Out = ~~1352.92~~
~~51.07~~

~~54.03~~
℄ IN = ~~1353.14~~
~~54.24~~

281.20
~~280.42~~ L.F. 8" Pipe
@ 0.40%

50+00 51+00 52+00 53+00 54+00 55+00

13-17
Top Elev = 1365.4
~~66.32~~

13-18
Top Elev = 1366.8
~~67.02~~

Existing Ground

~~.74~~
℄ IN = ~~1358.66~~ (8")
from Lateral No. 27

~~54.03~~
℄ Out = ~~1353.14~~
℄ IN = ~~1353.34~~
~~54.24~~

℄ = ~~1353.66~~ 1353.71
℄ IN = 1353.81

81.04
~~79.72~~ L.F. 8" Pipe
@ 0.40%

56+00

RECORD DRAWING
MADE: PROJ. ENG. 7/19/97 DATE
REG. ENG. DATE

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

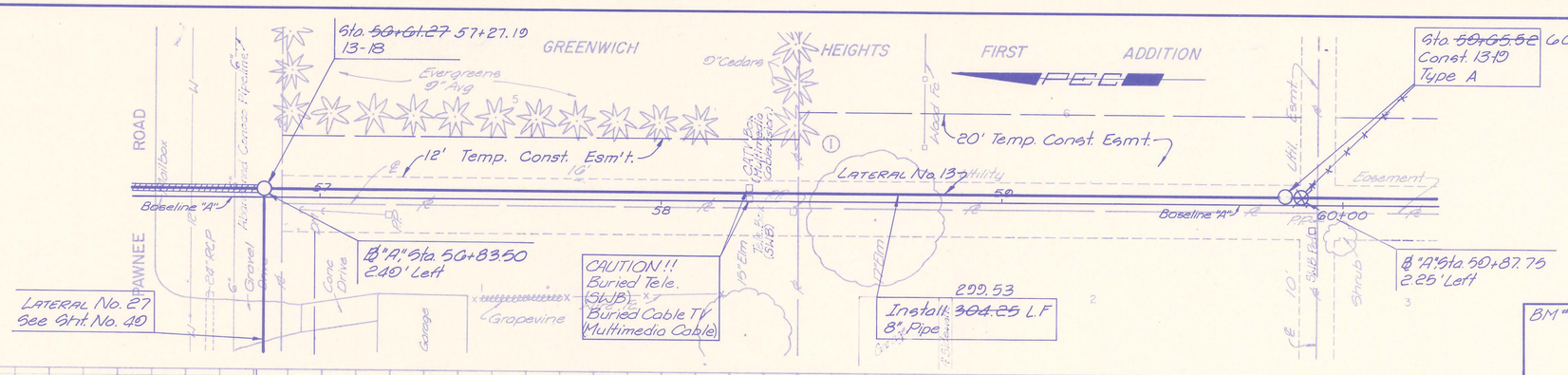
LATERAL NO. 13

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

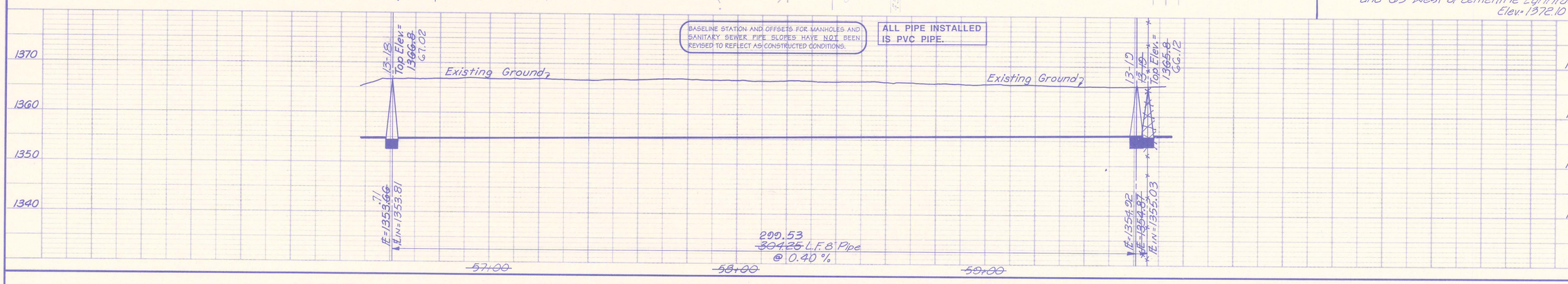
Sheet 29 of 51

MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

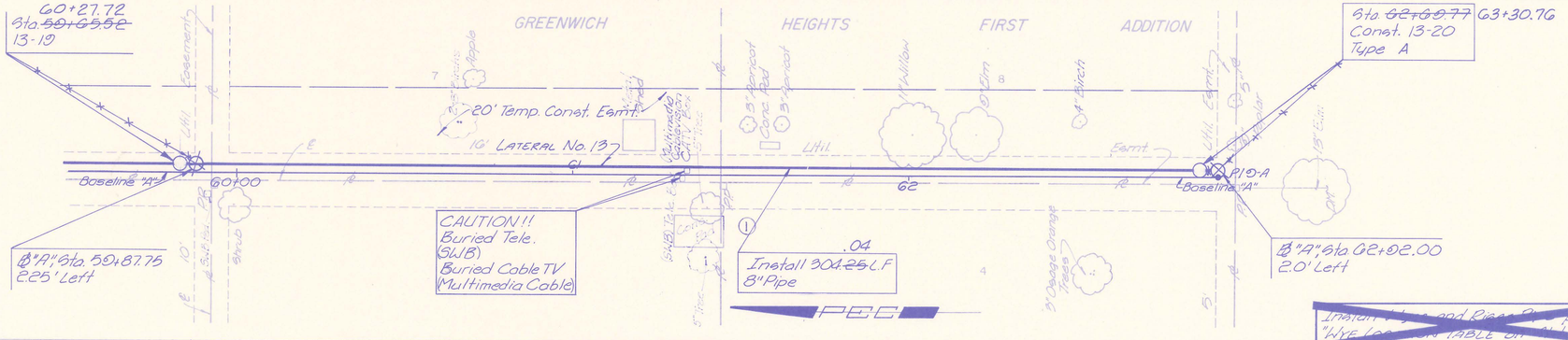
PART 3B



BM "G" Railroad Spike in the southeast face of a Utility Pole 38' north of centerline Pawnee Rd. and 63' west of centerline Lynnrae
Elev. 1372.10 (MSL)



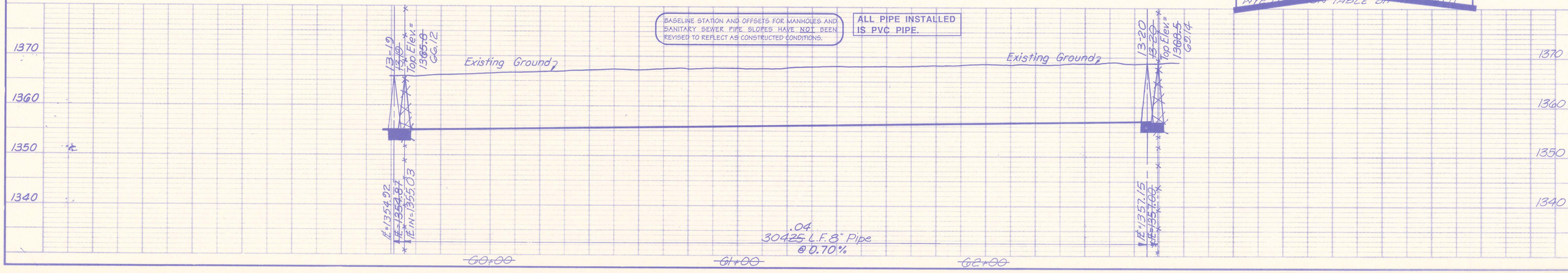
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10-064
Drawn by TC, BC, GH | Date August 1981



RECORD DRAWING
MDK PROJ. ENG. 2/12/87 DATE
RES. ENG. DATE

MICHAEL D. SCHOWALTER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

~~Install 8" and Reline Pipe per the "WYE Lo... TABLE ... No. 11~~



No.	Revision	By	Date
1	Update per PEC Proj. No. 34-81080	RJ	4/87

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 13

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 30 of 51

PART 3B

99.92

Lateral No. 13
See Sht. No. 24

Sta. 0+~~84.95~~, Lateral No. 13 = Sta. 0+00.00, Lateral No. 14
13-1

PEC

BM #2 - Railroad Spike in the east face of Utility Pole, 30' west of the west 1/4 corner of Sec. 34, T27S, R2E. Elev. = 1344.10 (MSL)

Sta. 3+~~75.34~~
Const. 14-1
Type A
.48

Remove and Replace
18 Sq. Yds. Unpaved Drive
See detail, Sht. No. 10

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

SPURRIER'S SUNSWEPT ACRES

Remove and Replace
18 Sq. Yds. Paved Drive
See detail, Sht. No. 10

20' Temp. Const. Esmt.

Lateral No. 14

15' San. Sewer Esmt.

Lateral No. 14

318 Rebar

℄ "A" Sta. 0+40.00
30.00' Right

Remove and Reset
fence as required

Install 375.34 L.F.
8" Pipe
.48

Double 12'x4' RCB

℄ "N" Sta. 3+05.34
40.00' Left

Install 375.34 L.F.
8" Pipe
.91

Double 12'x4' RCB

GREENWICH ROAD

Asphalt Road

Asphalt Road

Gravel Drive

PI 0-B 0.00

PI 0-N 0.00

Baseline "N"

5+00

Baseline "N"

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

13-1
Top Elev.=1341.7
42.18

Existing Ground

IE out=1327.77 .48
IE in=1327.74 .52

.48
375.34 L.F. 8" Pipe
@ 0.40%

14-1
Top Elev.=1341.9
42.35

IE=1329.24 .12

374.91
375.34 L.F. 8" Pipe
@ 0.40%

(continued below)

1350
1340
1330
1320

0+00 1+00 2+00 3+00 4+00 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-81051-10-024
Date August 1981
Designed by MDS, MDK
Drawn by TC, DM, SC, GM

Remove and Replace
16 Sq. Yds. Unpaved Drive
See detail, Sht. No. 10

Remove and Reset
fence as required

Sta. 7+~~50.68~~
Const. 14-2
Type A
.39

BM #3 - Chisled "+" in the northwest corner of a Concrete Drive 31' south of centerline Bellaire and 32' east of centerline Greenwich Rd. Elev. = 1345.35 (MSL)

SPURRIER'S SUNSWEPT ACRES

Remove and Reset
fence as required

Remove and Replace
17 Sq. Yds. Paved Drive
See detail, Sht. No. 10

Remove and Replace
18 Sq. Yds. Unpaved Drive
See detail, Sht. No. 10

Sta. 11+~~26.02~~
Const. 14-3
Type A

11+37.00

CAUTION!!
Buried Utilities

20' Temp. Const. Esmt.

10' Temp. Const. Esmt.

20' Temp. Const. Esmt.

Lateral No. 14

Lateral No. 14

15' San. Sewer Esmt.

Contractor to erect Temp. Fence at Temp. Esmt.'l Line

1/2" Iron Pipe

Baseline "N"

Burried Tele. line

℄ "N" Sta. 7+40.68
40.00' Left

386.61
Install 375.34 L.F.
8" Pipe

℄ "N" Sta. 11+10.02
40.00' Left

Double 12'x4' RCB

Asphalt Road

Asphalt Road

GREENWICH ROAD

BELLAIRE AVE.

Gravel Drive

Asphalt Drive

Baseline "N"

Baseline "N"

Install Manhole and Riser Ring per the "Manhole Elevation Table" on Sht. No. 11

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

14-2
Top Elev.=1345.±
.66

Existing Ground

IE=1330.78 .78

(continued from above)

386.61
375.34 L.F. 8" Pipe
@ 0.40%

14-3
Top Elev.=1344.3
.72

IE out=1332.24
IE in=1332.34
IE out=1332.32
IE in=1332.47

Existing Ground

1350
1340
1330
1320

0+00 7+00 8+00 9+00 10+00 11+00

RECORD DRAWING
MDK PROJ. ENG. 3/12/87 DATE
RES. ENG. DATE

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/6/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 14
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 31 of 51

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

PART 3B

Sta 11+26.02 11+37.00
14-3

CAUTION !! Buried Utilities

CAUTION !! Buried Utilities

Sta. 13+60.66 74.90
Const 14-4
Type A

Remove and Replace
10 Sq. Yds. Unpaved Drive
See detail, Sht. No. 10

CAUTION !! Buried Utilities

Remove and Replace
18 Sq. Yds. Unpaved Drive
See detail, Sht. No. 10

Sta. 16+30.16 53.45
Const 14-5
Type B

65' San Sew Esmt.
20' Temp. Const Esmt.
10' Temp. Const. Esmt.
Chain Link Fence
Buried CATV & Utimate Cablevision
Buried Tele line
2" Steel Gas Line
Gravel Drive
Rosebush
Hedge
Elm
Maple
Pine
Spruce
Evergreen
Aspen
Willow
Oak
Hickory
Cedar
Locust
Juniper
Poplar
Birch
Ash
Dogwood
Mulberry
Sycamore
Cherry
Walnut
Hackberry
Boxelder
Cottonwood
Hawthorn
Crabapple
Pine
Fir
Redbud
Catalpa
Sassafras
Magnolia
Beech
Chestnut
Basswood
Ironwood
Persimmon
Buckeye
Sweetgum
Tulip Tree
Blackgum
Sourwood
Silverbell
Serviceberry
Witch Hazel
Elderberry
Viburnum
Honeysuckle
Forsythia
Spirea
Weigela
Lilac
Privet
Barberry
Juniper
Yew
Boxwood
Holly
Rhododendron
Azalea
Camellia
Gardenia
Oleander
Nandina
Pyracantha
Cotoneaster
Euonymus
Ligustrum
Abelia
Deutzia
Philadelphus
Kerria
Chaenomeles
Daphne
Skimmia
Leucothoe
Pieris
Andromeda
Kalmia
Rhododendron
Azalea
Camellia
Gardenia
Oleander
Nandina
Pyracantha
Cotoneaster
Euonymus
Ligustrum
Abelia
Deutzia
Philadelphus
Kerria
Chaenomeles
Daphne
Skimmia
Leucothoe
Pieris
Andromeda
Kalmia

GREENWICH ROAD
BELLAIRE AVE.
SPURRIER'S SUNSWEPT ACRES
CREST AVE.
CLAY LANE

Lateral No. 14
Lateral No. 15
See Sht. No. 30
Lateral No. 17
See Sht. No. 37
Lateral No. 18
See Sht. No. 38

PI 1-N
Baseline "N"
PI 2-N
Baseline "N-1"
PI 1-N-2
Baseline "N-2"
PI 2-N-2
Baseline "P"
Baseline "P-1"

℄ "N", Sta 11+10.02
40.00' Left

℄ "N-1", Sta 0+01.00
14.08' Left

℄ "N-1", Sta 2+70.50
13.17' Left

℄ "P", Sta 2+81.00
4.50' Left

℄ "P", Sta 3+02.00
3.74' Left

BM #3 - Chiseled "+" in the northwest corner of a Concrete Drive 31' south of centerline Bellaire and 32' east of centerline Greenwich Rd.
Elev. = 1345.35 (MSL)

BM #13 - Chiseled "□" in the southwest corner of a Concrete Driveway, 20' north of centerline Bellaire and 105' west of centerline Crest.
Elev. = 1345.06 (MSL)

Remove and Replace
24 Sq. Yds. Unpaved Drive
See detail Sht. No. 10

Remove and Replace
14 Sq. Yds. Unpaved Drive
See detail Sht. No. 10

Remove and Replace
20 Sq. Yds. Paved Road
See detail, Sht. No. 10

Remove and Reset
fence as required

Install 237.90 ~~234.64~~ L.F.
8" Pipe

Install 278.50 ~~278.50~~ L.F.
8" Pipe

Install 208.78 ~~210.73~~ L.F.
8" Pipe

Install 108.95 ~~111.00~~ L.F.
8" Pipe

Install 330.51 ~~328.51~~ L.F.
8" Pipe

Identical Points

Chain Link Fence
10' Temp. Const. Esmt.
Woven Wire Fence
Asphalt Road
Gravel Drive
Water line
Gas line
Telephone line
Overhead Wires
Utility Pole
Mailbox
Fire Hydrant
Water Valve
Gas Valve
Manhole
Catch Basin
Inlet
Culvert
Ditch
Swale
Drainage Flow
Edge of Pavement
Edge of Gravel
Edge of Concrete
Property Line
Right of Way
Easement
Building
Garage
Shed
Barn
Silo
Greenhouse
Pool
Patio
Deck
Porch
Steps
Retaining Wall
Fence
Gate
Sign
Mailbox
Utility Pole
Guy Wire
Transformer
Meter
Valve
Hydrant
Manhole
Catch Basin
Inlet
Culvert
Ditch
Swale
Drainage Flow
Edge of Pavement
Edge of Gravel
Edge of Concrete
Property Line
Right of Way
Easement
Building
Garage
Shed
Barn
Silo
Greenhouse
Pool
Patio
Deck
Porch
Steps
Retaining Wall
Fence
Gate
Sign

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

14-3 Top Elev = 1343.3 ~~45.72~~
Existing Ground
℄ OUT = 1332.24 ~~1332.44~~ .32
℄ IN = 1332.44 ~~1332.44~~ .47

14-4 Top Elev = 1343.3 ~~44.75~~
℄ IN = 1333.58 ~~1333.58~~ (8") .65
from Lateral No. 15
℄ IN = 1333.58 ~~1333.58~~ .40

14-5 Top Elev = 1344.4 ~~45.00~~
Existing Ground
℄ IN = 1337.89 ~~1337.89~~ (8") .07
from Lateral No. 17
℄ OUT = 1335.89 ~~1335.89~~ .00
℄ IN = 1337.84 ~~1337.89~~ .04

237.90 ~~234.64~~ L.F. 8" Pipe @ 0.40 %
278.55 ~~278.50~~ L.F. 8" Pipe @ 0.90 %

14-5 Top Elev = 1344.4 ~~45.00~~
Existing Ground
℄ IN = 1337.89 ~~1337.89~~ (8") .07
from Lateral No. 17
℄ OUT = 1335.89 ~~1335.89~~ .00
℄ IN = 1337.84 ~~1337.89~~ .04

14-6 Top Elev = 1348.3 ~~47.82~~
℄ OUT = 1336.77 ~~1336.77~~ .20
℄ IN = 1338.97 ~~1338.97~~ 39.02

14-6 Top Elev = 1348.3 ~~47.82~~
℄ OUT = 1336.77 ~~1336.77~~ .28
℄ IN = 1338.97 ~~1338.97~~ 39.02

14-7 Top Elev = 1340.4 ~~45.58~~
Existing Ground
℄ IN = 1341.41 ~~1341.41~~ (8") .50
from Lateral No. 18
℄ = 1339.46 ~~1339.44~~ .98
℄ IN = 1339.53

208.78 ~~210.73~~ L.F. 8" Pipe @ 0.40 %
108.95 ~~111.00~~ L.F. 8" Pipe @ 0.40 %
330.51 ~~328.51~~ L.F. 8" Pipe @ 0.98 %

(continued on following sheet)

RECORD DRAWING
MDK PROJ. ENG. 5/14/97 DATE
RES. ENG. DATE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 32-81051-10-021
Drawn by TC, DTH, SC, GM | Date August 1991

No.	Revision	By	Date
1	Update per DEC Proj No. 34910080	RJ	1/1/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E., DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 14
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 32 of 51

MICHAEL D. SCHUMACHER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

PART 3B

Sta ~~22+08.40~~ 23+01.60
Const. 14-8
Type A

SPURRIER'S SUNSWEPT ACRES

Remove and Reset fence as required

℄ 20' San. Sew. Esmt.

Identical Points

Woven Wire Fc.

LATERAL No. 14

℄ "P"

Baseline "P"

℄ "P" Sta 7+20.50
1.50' Left

20' Temp. Const. Esmt.

CLAY LANE

SPURRIER'S LAHOMA ACRES

BM #13 - Chisled "O" in the southwest corner of a concrete driveway, 20' north of centerline Bellaire and 105' west of centerline Crest Elev. = 1345.00 (MSL)

Sta ~~22+08.40~~ 14-8 23+01.60

Sta 24+~~27.94~~ 32.48
Const. 14-9
Type A

CAUTION!! Buried Utilities

Remove and Reset fence as required

10' San. Sew. Esmt.

8" Vit. Clay Pipe

8" Util. Esmt.

℄ "P", Sta. 8+00.00
17.00' Right

℄ "P", Sta 7+20.50
1.50' Left

20' Temp. Const. Esmt.

130.79
~~120.44~~ Install L.F.
8" Pipe

Remove and Replace
27 Sq. Yds. Paved Road
See detail, Sht. No. 10

KINKAID AVE.

.46
~~61.81~~ Install L.F.
8" Pipe

℄ "P", Sta. 9+27.00
7.00' Right

Sta. 24+~~80.65~~ 93.04
Const. 14-10
Type A

SPURRIER'S LAHOMA ACRES

CAUTION!! Buried Utilities

CAUTION!! Buried Utilities

Remove and Reset fence as required

20' Temp. Const. Esmt.

Baseline "P"

LATERAL No. 14

10' San. Sewer Esmt.

392.16
~~393.48~~ Install L.F.
8" Pipe

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

1360
1350
1340
1330

Existing Ground

14-8
Top Elev.=1350.50

~~.94~~ .84
~~1342.63~~ 1342.63
~~.98~~ .98

E OUT = 1342.63
E IN = ~~1342.33~~ 1342.63

(continued from preceding sheet)

14-8
Top Elev.=1350.50

14-9
Top Elev.=1354.70
52.20

14-10
Top Elev.=1352.85
52.35

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

~~.94~~ .84
~~1342.63~~ 1342.63
~~.98~~ .98

E OUT = 1342.63
E IN = ~~1342.33~~ 1342.63

130.79
~~120.44~~ L.F. 8" Pipe
@ 2.10%

~~.94~~ .84
~~1345.55~~ 1345.60

E = 1345.60
E IN = 1345.60

.46
~~61.81~~ L.F. 8" Pipe
@ 0.40%

~~.03~~ .03
~~1345.00~~

E = 1345.00

392.16
~~393.48~~ L.F. 8" Pipe
@ 0.40%

(continued below)

22+00 23+00 24+00 25+00 26+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Job No. 34-81051-10-024
Date August 1981

Designed by MDS, MDK
Drawn by TC, DM, SC, GM

BM #5 - Railroad Spike in the southwest face of a Utility Pole, 43.5' east of centerline Ellison and 30' north of centerline Pawnee Elev. = 1368.54 (MSL)

CAUTION!! Tele. Box

SPURRIER'S LAHOMA ACRES

Sta. 28+~~83.13~~ 86.10
Const 14-11
Type A

Remove and Reset fence as required

CAUTION!! Tele. Box

Sta. 32+~~76.01~~ 78.97
Const. 14-12
Type A

Remove and Reset fence as required

20' Temp. Const. Esmt.

Baseline "P"

Barbed Wire Fc.

10' San. Sewer Esmt.

LATERAL No. 14

CATV

8" Util. Esmt.

Bird House

Wood Fc.

Buried Tel. Cable

Buried CATV (Multimedia Cablevision)

Chain Link Fc.

Log Pile

Trailer

Cone Bros.

Building

Concrete Slab

Wood Building

Overhead Power

Evergreen Saps

Woven Wire Fc.

Storm

℄ "P", Sta. 13+20.47
3.67' Right

℄ "P", Sta. 17+13.04
0.34' Right

392.87
~~393.48~~ Install L.F.
8" Pipe

~~Install Wyes and Risers per the "Wye & Riser Location Table" Sht. No. 11~~

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MICHAEL D. SCHUMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

1370
1360
1350
1340

Existing Ground

14-11
Top Elev.=1358.94

~~.94~~ .84
~~1342.63~~ 1342.63
~~.98~~ .98

E OUT = 1342.63
E IN = ~~1342.33~~ 1342.63

~~.36~~ .37
~~1341.37~~ 1341.46

E = 1341.46
E IN = 1341.46

(continued from above)

392.87
~~393.48~~ L.F. 8" Pipe
@ 0.40%

14-12
Top Elev.=1363.24

~~.13~~ .13
~~1348.32~~ 1348.32

E = 1348.32
E IN = 1348.32

27+00 28+00 29+00 30+00 31+00 32+00

RECORD DRAWING
MDK PROJ. ENG. 7/16/91 DATE
RES. ENG. DATE

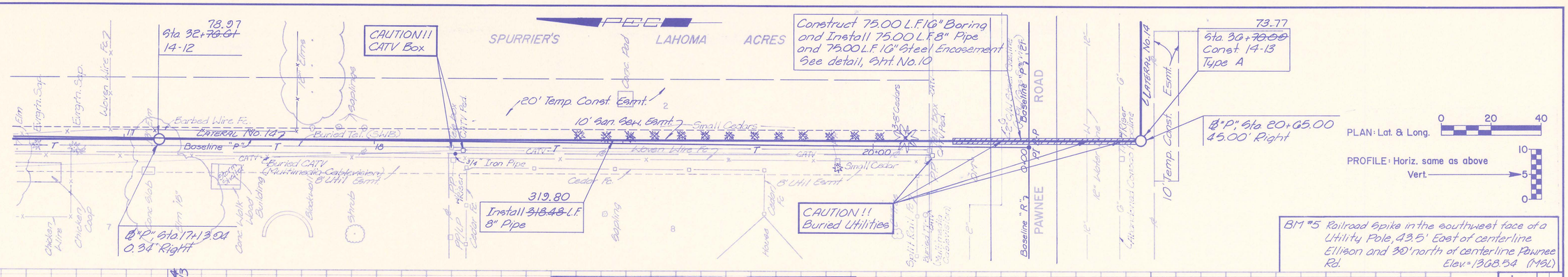
No.	Revision	By	Date
1	Update per AEC Proj. No. 34-91080	RJ	4/91

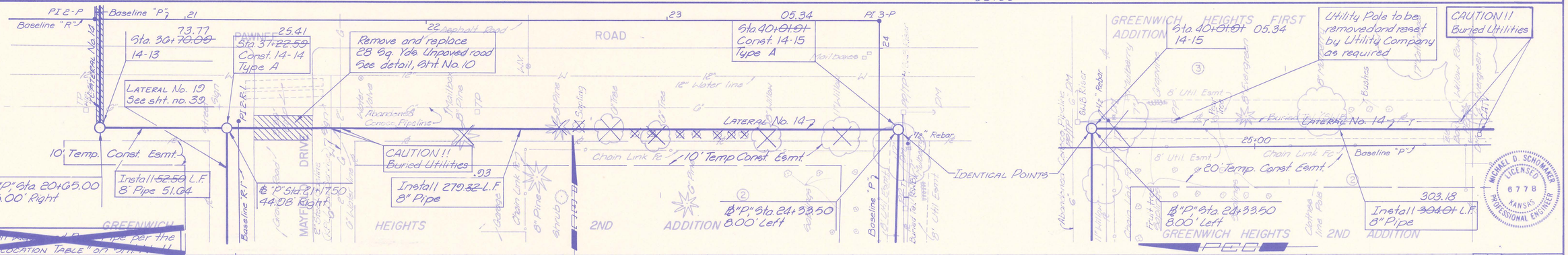
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 14
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 33 of 51

PART 3B





RECORD DRAWING
MDK PROJ. ENG. 7/2/97 DATE
RES. ENG. DATE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81091-10-02d
Drawn by TC, BCGM | Date August 1981

No	Date	By	Revision
1	10/14/01	KR	Update per P.E.C. Proj. No. 34-91080

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHT 2 - LATERAL SEWER DISTRICT

LATERAL NO. 14

Sht. 34 of 51

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PART 3B

Utility Pole to be removed and reset by Utility Company as required

Sta. 43+~~05.02~~ 08.52
Const. 14-16
Type A

CAUTION!! Buried Utilities

Sta. 46+00.~~03~~ .57
Const. 14-17
Type A

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

BM#5 - Railroad Spike in the southwest face of a Utility Pole, 43.5' east of centerline Ellison and 30' north of centerline Pawnee Rd.
Elev. = 1368.54 (MSL)

GREENWICH HEIGHTS FIRST ADDITION

GREENWICH HEIGHTS 2ND ADDITION

LATERAL No. 14

LATERAL No. 14-7

Baseline "P"

20' Temp. Const. Esmt.

℄ "P", Sta. 27+37.50
600' Left

301.05
Install 304.0± L.F.
8" Pipe

℄ "P", Sta. 30+41.50
4.00' Left

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Existing Ground

14-16 Top Elev. = 1370.79 .83

14-17 Top Elev. = 1372.8 .46

1370
1360
1350

(continued from preceding sheet)

I.E. = 1356.45 .38
I.E. in = 1356.45

301.05
304.0± L.F. 8" Pipe
@ 1.40%

I.E. = 1360.82 .54

42+00 43+00 44+00 45+00 46+00

Utility Pole to be removed and reset by Utility Company as required

Sta. 46+00.~~03~~ .57
14-17

CAUTION!! Buried Utilities

Utility Pole to be removed and reset by Utility Company as required

CAUTION!! Tele. Box

Sta. 40+~~85.05~~ 86.18
Const 14-18
Type A

RECORD DRAWING
MDK PROJ. ENG. 3/13/17 DATE
REG. ENG. DATE

BM#8 - Chiseled "□" in the south end of the west curb to driveway, 13' northeast of centerline Berkshire and 85' southeast of centerline Bedford.
Elev. = 1370.17 (MSL)

GREENWICH HEIGHTS 61 2ND ADDITION

℄ "P", Sta. 30+41.50
4.00' Left

Install 370.0± L.F.
8" Pipe

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

℄ "P" Ext., Sta. 34+10.50
8.00' Right

Install 1-4" Stub
See detail, Sht. No. 8

Install 4" Stub and Riser Pipe at the "WYE Location ... See Sht. No. 11

Existing Ground

14-17 Top Elev. = 1372.8 .46

14-18 Top Elev. = 1376.6 77.18

1380
1370
1360

I.E. IN = 1360.78 (4") from 4" Stub

I.E. = 1360.54 .54

61
370.0± L.F. 8" Pipe
@ 1.00%

I.E. = 1364.46

47+00 48+00 49+00

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10-024
Drawn by TC, DH, SC, GM | Date August, 1981

No.	Revision	By	Date
1	Update per REC Proj. No. 34-91080	RJ	4/8/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 14
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 35 of 51

PART 3B

CAUTION!! Buried Utilities

Buried Tel. (SWB)

Buried CATV (Multimedia Cablevision)

Sta. 13+~~00.00~~ 14.00 Lateral No. 14 = Sta. 0+00.00 Lateral No. 15

14.00' Left

SPURRIER'S SUNSWEPT ACRES

Remove and Replace 24 Sq. Yds. Paved Drive See detail Sht. No. 10

20' Temp. Const. Esmt.

Lateral No. 15 — 15+00 — ℄ 20' San. Sewer Esmt.

Baseline "N"

Baseline "W"

Baseline "N-1"

BELLAIRE

℄ "N-1", Sta. 0+01.00 14.08' Left

Lateral No. 14 See Sht. No. 32

CAUTION !! Buried Utilities

Install ~~210.76~~ 208.33 L.F. 8" Pipe

℄ "N", Sta. 10+10.50 0.78' Left

Sta. 2+~~10.76~~ 08.33 Const. 15-1 Type A

℄ 20' San. Sewer Esmt.

Baseline "2"

P.I. 0+00.00

Lateral No. 16 See Sht. No. 37

Remove and Reset fence as required

SPURRIER'S LAHOMA ACRES

20' Temp. Const. Esmt.

℄ 20' San. Sewer Esmt.

Remove and Reset fence as required

Sta. 5+~~36.41~~ 20+33 Const. 15-2 Type A

Baseline "N"

Lateral No. 15

BM # 3 — Chiseled "+" in the northwest corner of a Concrete Drive 31' south of centerline Bellaire and 32' east of centerline Greenwich Road Elev. = 1345.35 (MSL)

Remove and Relocate shed (off San. Sew. Esm't.) as required

3/12.00 Install ~~316.65~~ L.F. 8" Pipe

℄ "N", Sta. 10+27.00 0.00' Right

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350 / 1340 / 1330

Existing Ground

15-1 Top Elev. = 1344.75 — Invert Out = 1333.40 — Invert In = 1333.65

15-1 Top Elev. = 1344.33 — Invert Out = ~~1333.38~~ 1333.53

15-1 Top Elev. = ~~1344.75~~ 1344.89

IE In = ~~1330.64~~ 1330.85 (8") from Lateral No. 16

IE = 1334.64 .86

15-2 Top Elev. = 1347.66 — IE = 1336.08

15-2 Top Elev. = 1347.66 — IE = 1336.04 .98

208.33 ~~210.76~~ L.F. 8" Pipe @ 0.56%

912.00 ~~916.65~~ L.F. 8" Pipe @ 0.40%

0+00 / 1+00 / 2+00 / 3+00 / 4+00 / 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A. — ENGINEERS — WICHITA, KANSAS

Designed by: MDS, MDK — Job No. 34-81051-10-024

Drawn by: TC, DM, SC, GH — Date: August 1981

Sta. 5+~~36.41~~ 20.33 15-2

Utility Pole to be removed and reset by Utility Company as required

Baseline "N"

20.00

℄ 20' San. Sewer Esmt.

Lateral No. 15

20' Temp. Const. Esmt.

Remove and Reset fence as required

Remove and Reset fence as required

Sta. 8+~~62.48~~ 51.24 Const 15-3 Type A

20' Temp. Const. Esmt.

℄ 20' San. Sewer Esmt.

3/4" Rebar

Lateral No. 15

Utility Pole to be removed and reset by Utility Company as required

Do Not Disturb Metal Building

Remove and reset rock garden as required.

Utility Pole to be removed and reset by Utility Company as required

℄ "N", Sta. 22+53.00 2.10' Right

Install 326.94 .73 L.F. 8" Pipe

Install ~~Inlet and Riser Pipe at the "Wye" Location TABLE OF STRUCTURES~~

SPURRIER'S LAHOMA ACRES

Install ~~326.07~~ 330.91 L.F. 8" Pipe

℄ "N", Sta. 10+27.00 0.00' Right

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above Vert. 10 5 0

1350 / 1340 / 1330

Existing Ground

15-2 Top Elev. = 1347.66 — IE = 1336.04

15-3 Top Elev. = 1344.44 — IE = 1337.98

330.91 ~~326.07~~ L.F. 8" Pipe @ 0.40%

.73 326.94 L.F. 8" Pipe @ 0.80%

6+00 / 7+00 / 8+00 / 9+00 / 10+00

RECORD DRAWING — Mark — CIVIL ENG. 3/14/97 DATE — ELEC. ENG. ——— DATE

(continued on following sheet)

1 — Update per P.E.C. Proj. No. 34-91080 — R.J. — 4/14/97

No. — Revision — By — Date

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 15

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 9 of 51

MICHAEL D. SCHIMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PART 3B

Sta. 11+~~88.52~~ 77.97
Const. 15-4
Type B

Utility Pole to be removed and reset by Utility Company as required

Sta 15+~~13.07~~ 04.76
Const. 15-5
Type A

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

20' Temp. Const. Esmt.

Baseline "N"

25+00

LATERAL No. 15-7

3/4" Iron Pipe

℄ 20' San. Sewer Esmt.

Baseline "N" PI 4+N7

20' Temp. Const. Esmt.

LATERAL No. 15-7

℄ 20' San. Sewer Esmt.

Sta. 16+33.73
Const. 15-G
Type A

BM#4 - Railroad Spike in the north face of a Utility Pole, 43' north and 38' west of the intersection of Pawnee and Greenwich Road
Elev. = 1351.78 (MSL)

SPURRIER'S

℄ "N", Sta. 25+70.00
7.50' Right

LAHOMA ACRES 326.79

Remove and Reset fence as required

Install ~~324.55~~ L.F. 8" Pipe

Utility Pole to be removed and reset by Utility Company as required

℄ "N" Ext., Sta. 29+03.50
13.09' Right

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350
1340

Existing Ground

15-4 Top Elev.=1357.45
40.14 IE=~~1350.00~~ 1349.90
42.17 IE=~~1347.83~~ 1347.73

(continued from preceding sheet)

326.79
~~324.55~~ L.F. 8" Pipe
@ 1.80 %

15-5 Top Elev.=1354.68
Canada G Pipeline Top Pipe = 1353.0

13-G Top Elev.=1357.80
Centra 8" Pipeline Top Pipe=1352.7

IE=1347.66
IE IN=1347.78

128.97 L.F.
8" Pipe
@ 0.56 %

IE=1348.50

10+00 11+00 12+00 13+00 14+00 15+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10-024
Drawn by TC, DM, SC, GM | Date August, 1981

Remove and Reset fence as required

Sta. 1+~~39.84~~ 38.44
Const. 16-1
Type A

Sta. 16+53.45 ~~Sta 16+39.16~~, LATERAL No. 14 = Sta. 0+00.00, LATERAL No. 17
14-5

CAUTION !!
Buried Utilities

Sta. 0+~~52.50~~ .94
Const. 17-1
Type D

SPURRIER'S
08.33
Sta. 2+~~10.76~~ LATERAL No. 15 = Sta. 0+00.00 LATERAL No. 16
15-1

LAHOMA ACRES

SUNSWEPT ACRES

20' Temp. Const. Esmt.

Baseline "P"

PI 0+0
0+00

LATERAL No. 16-7

Baseline "O"

Baseline "N"

℄ 20' San. Sewer Esmt.

Utility Pole and Deadman to be removed and reset by Utility Co. as required

Install ~~39.84~~ L.F. 8" Pipe 38.44

Install 1-4" Stub See detail, sht 10

℄ "O", Sta. 1+30.00
8.00' Right

LATERAL No. 14 See Sht. No. 32

SPURRIER'S

SUNSWEPT ACRES

Baseline "N-1"

10' Temp. Const. Esmt.

LATERAL No. 17

Install 1-4" Stub See detail, sht no. 10

BELLAIRE AVE.

Install 52.50 L.F. 8" Pipe .94

℄ "N-1", Sta. 3+32.00
13.00' Left

℄ "N", Sta 16+10.50
0.78' Left

LATERAL No. 15 See Sht. No. 30

BM#13 - Chiseled "□" in the southwest corner of a Concrete Driveway, 20' north of center line Bellaire and 105' west of center line Crest
Elev. = 1345.00 (MSL)

℄ "N-1", Sta. 2+70.50
13.17' Left

Install Fire Hydrant and Riser Per the "WYE Lo... TABLE" on Sht. ...

RECORD DRAWING
MDK PROJ. ENG. 7/12/82 DATE
REG. ENG. DATE

MICHAEL D. SCHUMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350
1340
1330

15-1 Top Elev.=1344.4 .89
Existing Ground .00
IE IN=1337.~~83~~ (4") from 1-4" Stub
16-1 Top Elev.=1344.8 45.36

IE OUT=1334.~~84~~ 86
IE IN=1330.~~84~~ .85

138.44
~~130.84~~ L.F. 8" Pipe
@ 0.50%

IE=1337.~~50~~ 54

14-5 Top Elev.=1344.1 45.09
17-1 Top Elev.=1344.2 45.10

Existing Ground .94

IE=1335.~~00~~ 99
IE IN=1337.~~00~~ 07

52.50 L.F. 8" Pipe
@ 2.10%

IE=1330.~~00~~ 45

IE IN=1330.~~32~~ .85 from 1-4" Stub

0+00 1+00 0+00

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-81080	KJ	4/81

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 15, 16 & 17
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 37 of 51

PART 3B

71.18
Sta. 10+~~60.82~~ 69.88, LATERAL No. 14 = Sta 0+00.00, LATERAL No. 18
14-7

Remove and reset fence as required

Utility Pole to be removed and reset by Utility Company as required

Sta. 3+~~22.44~~ 21.66
Const. 18-1
Type A

Utility Pole to be removed and reset by Utility Company as required

Remove and reset fence as required

SPURRIER'S

Everareen Row

℄ 20' San. Sew. Esmt.

LATERAL No. 18

Baseline "Q"

PT 0+2
0+00

Baseline "P"

LA HOMA

20' Temp. Const. Esmt.

PT 2+0
5+00

PLAN: Lat. & Long.

PROFILE: Horiz. same as above
Vert.

0 20 40

10
5
0

LATERAL No. 14
See Sht. No. 32

℄ "P" Sta. 3+92.00
3.74' Left

321.66
Install ~~322.44~~ L.F.
8" Pipe

℄ "Q" Sta 3+18.66
2.14' Left

ALL PIPE INSTALLED IS PVC PIPE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

68
Install 322.44 L.F.
8" Pipe

ACRES

BM#13 - Chiseled "□" in the southwest corner of a concrete Driveway, 26' north of centerline Bellaire and 105' west of centerline Crest.
Elev. = 1345.06 (MSL)

14-7
Top Elev. = 1349.~~54~~ .98

18-1
Top Elev. = 1352.~~74~~ 53.21

Existing Ground

IE out = 1339.~~44~~ .68
IE in = 1341.~~94~~ .50

321.66
~~322.44~~ L.F. 8" Pipe
@ 1.14%

IE = 1345.~~69~~ 11

68
322.~~44~~ L.F. 8" Pipe
@ 0.40%

(continued below)

1360
1350
1340

0+00 1+00 2+00 3+00 4+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 347.81051-0-021
Date August 1981
Designed by MDS, MDK
Drawn by TC, RC, GM

Remove and reset fence as required

Sta. 6+~~44.88~~ .34
Const. 18-2
Type A

Utility Pole to be removed and reset by Utility Company as required

Remove and reset fence as required

Do Not Disturb Garage

Utility Pole to be removed and reset by Utility Company as required

Sta. 9+~~07.96~~ 63.00
Const. 18-3
Type A

Install 1-4" Stub & 14 LF 4" Riser Pipe See detail, Sht. No. 8

SPURRIER'S

℄ 20' San. Sew. Esmt.

Baseline "Q"

PT 2+0
5+00

PT 1+0

LATERAL No. 18

20' Temp. Const. Esmt.

LA HOMA

10+00

Remove and Reset Fence as required

℄ "Q" Sta. 6+47.08
6.02' Right

℄ "Q" Sta. 9+66.50
9.50' Right

318.66
Install ~~322.44~~ L.F.
8" Pipe

Install 1-4" Stub
See detail, sht. no. 8

ACRES

ALL PIPE INSTALLED IS PVC PIPE.

MICHAEL D. SCHUMACHER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

~~Install [illegible] and Riser Pipe per the "Lateral [illegible] Table on Sht. No. 11~~

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

18-2
Top Elev. = 1354.~~47~~ 55.23

Existing Ground

IE = 1346.~~49~~ 38

18-3
Top Elev. = 1357.~~74~~ .72

IE in = 1348.00 (4") from 4" Stubs

IE = 1347.~~87~~ .83

318.66
~~322.44~~ L.F. 8" Pipe
@ 0.40%

(continued from above)

1360
1350
1340

5+00 6+00 7+00 8+00 9+00

RECORD DRAWING
PROJ. ENG. _____ DATE
RES. ENG. _____ DATE

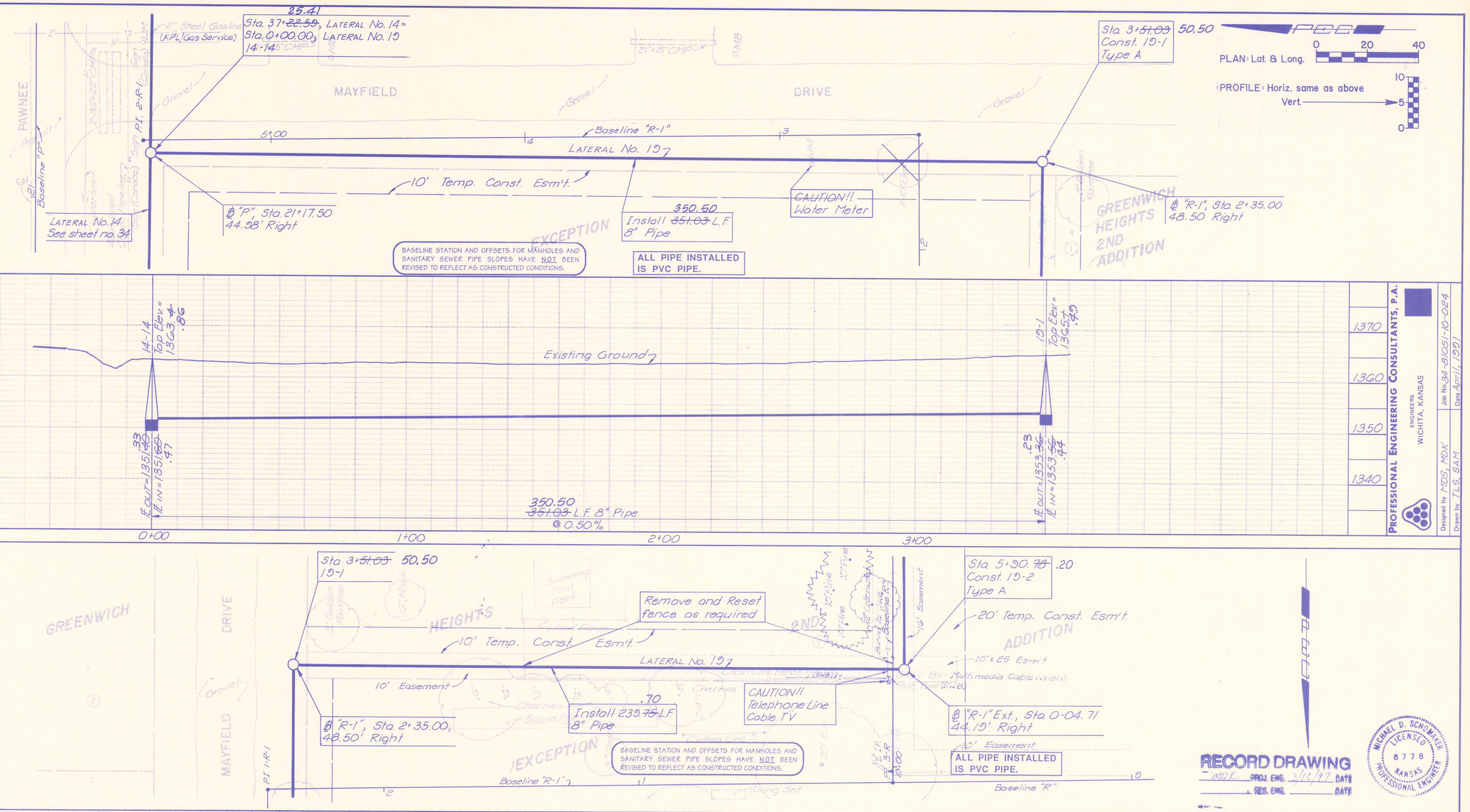
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 18
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

No.	Revision	By	Date
1	Update per AEC Proj. No. 347.81080	RJ	4/8/81

Sht. 38 of 51

PART 3B



RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
REG. ENG. DATE

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-81051-10-024
Date: April, 1991
Designed by: MDS, MDK
Drawn by: TLS, SAM

No.	Revision	By	Date
1	Update per AEC	RJ	4/91

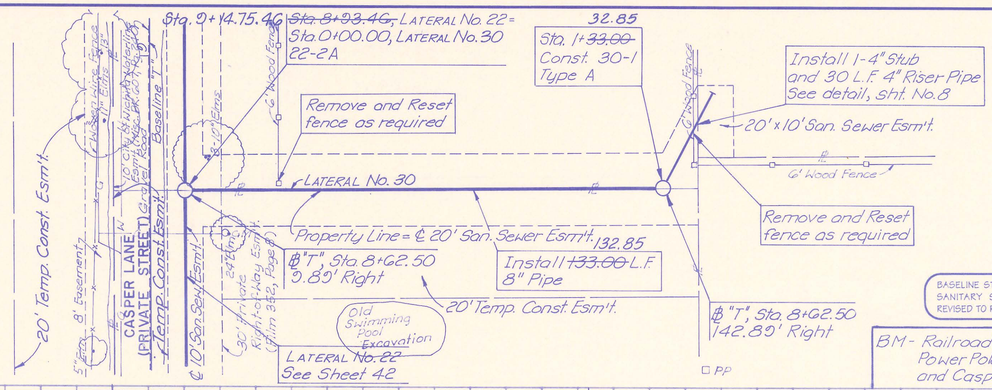
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 19

Sht. 39 of 51

PART 3B



BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

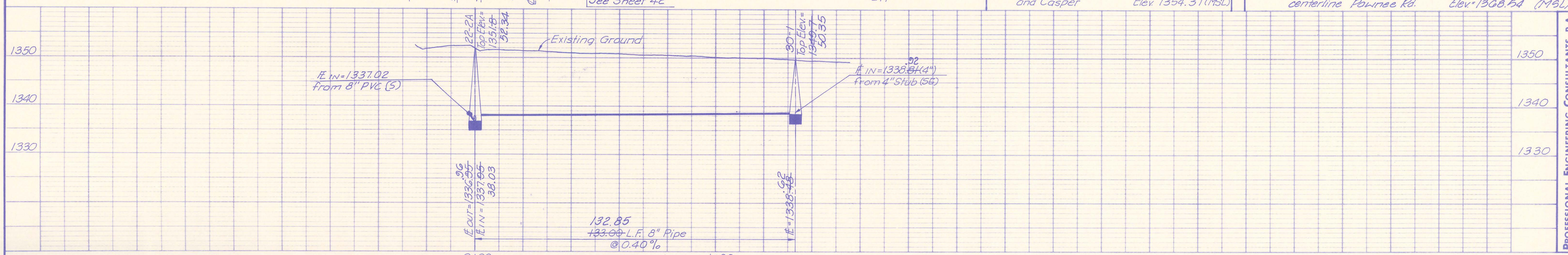
ALL PIPE INSTALLED IS PVC PIPE.

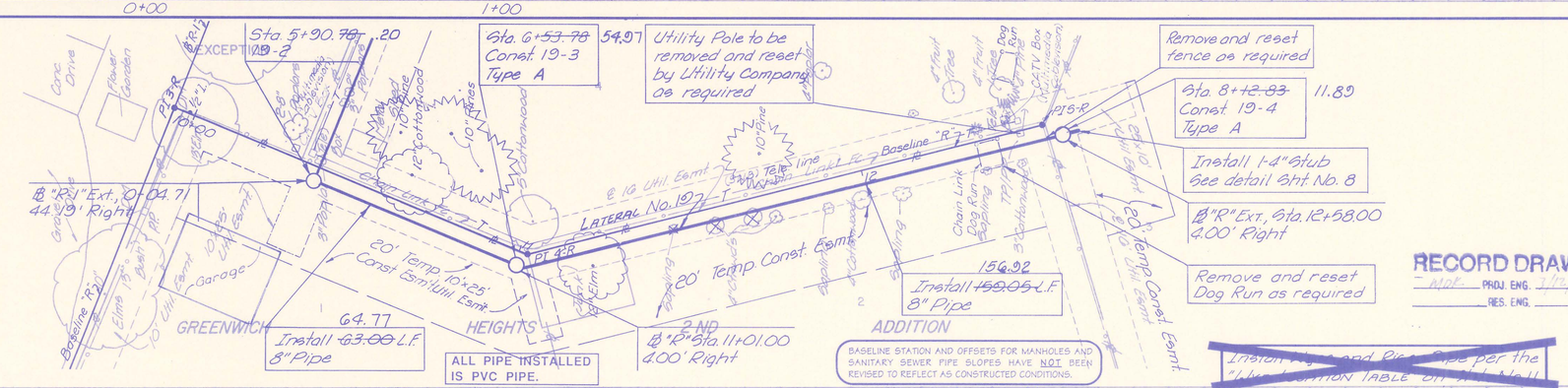
PLAN: Lat. & Long. 0 20 40

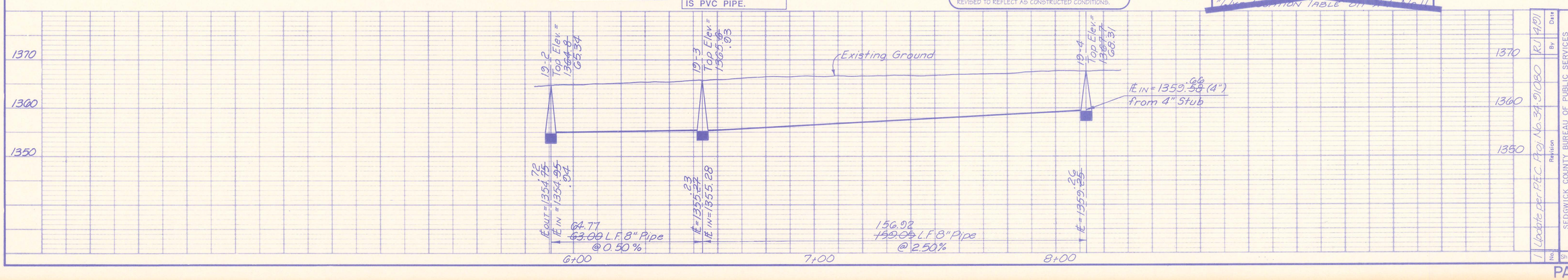
PROFILE: Horiz. same as above
Vert. 10 5 0

BM - Railroad Spike in southwest face Power Pole at northwest corner Bellaire and Casper Elev. 1354.37 (MSL)

BM #5 - Railroad Spike in the southwest face of a Utility Pole, 43.5' east of centerline Ellison and 30' north of centerline Pawnee Rd. Elev = 1368.54 (MSL)







~~Install 1-4" Stub and Riser Pipe per the "Lateral Location Table" on Sht. No. 11~~

PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS
Job No. 94-8105/10-021
Date August 1981
Designed by MDS, MDK
Drawn by TC, SC, CJ-Y

No.	Revision	By	Date
1	Update per P.E.C. Proj No. 94-91080	RJ	4-01

SEDGWICK COUNTY, KANSAS BUREAU OF PUBLIC SERVICES
DAVID L. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 19 & 30

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 40 of 51

PART 3B

Sta. 8+83.57

~~Sta. 8+60.15~~, Lateral No. 13
Sta. 0+00.00, Lateral No. 20
13-3

CAUTION !!
Buried Utilities

Remove and Replace
14 Sq. Yds Unpaved Drive
See detail Sht. No. 10

SPURRIER'S

SUNSWEPT

Remove and Reset
12" CMP as required

Sta. 3+~~64.06~~
Const 20-1
Type A

65.36

ACRES

Remove and Reset
12" RCP as required

Remove and Replace
14 Sq. Yds Unpaved Drive
See detail, Sht. No. 10

PLAN: Loc & Long.
PROFILE: Horiz. same as above
Vert.
0 20 40
10 5 0

1/2" Iron Pipe
Chain Link Fe.
Split Rail Fe.
Rock
2" CATV
2" Steel Gasline (KPL/Gas Service)
Storm Pillars
Buried CATV (Multimedia Cablevision)
8" Water line
LATERAL No. 20
Mailboxes
Gravel Drive
Evergreen
Shrubs
Concrete Sidewalk
Asphalt Road
Baseline "S"
Baseline "A"
PI E-A 0+00
℄ "A", Sta. 0+04.50
53.06' Left
LATERAL No. 13
See Sht. No. 24
Woven Wire Fe.
CREST
STREET
Install ~~364.06~~ L.F. 365.36
8" Pipe
℄ "S", Sta. 3+10.04
10.00' Left
Install ~~287.06~~ L.F. 286.92
8" Pipe
Small Evergreens
Gate
Barbwire Fe.
Orange Orange Trees
12" RCP
15" CMP
36" Elm
9" Osage Orange
Shrub

BM #17- Railroad Spike in the southeast face of a 30" Elm, 23' west of centerline Crest and 104' south of the north line of the southwest 1/4, Sec 34, T27S, R2E
Elev. = 1340.45 (MSL)

LICENSED
MICHAEL D. SCHOMMER
6778
KANSAS
PROFESSIONAL ENGINEER

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350
1340
1330

13-3 Top Elev.= 1347.75 .44
℄ Out = 1329.82 .84
℄ In = 1331.62 .89
Exist. Ground
20-1 Top Elev.= 1337.30 .44
℄ = 1333.88 .27
365.36 ~~364.06~~ L.F. 8" Pipe @ 0.40%
286.92 ~~287.06~~ L.F. 8" Pipe @ 0.40%
(continued below)

0+00 1+00 2+00 3+00 4+00 5+00

RECORD DRAWING
MDK PROJ ENG 7/1/97 DATE
SUPV. ENGR. DATE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, DM, SC, GM
Job No. 34-81051-10-024
Date August 1981

Sta. C+51.12
Const. 20-2
Type A
52.28

CAUTION !!
Buried Utilities

Sta. 7+23.00
Sta. 0+00.00
20-2

Lateral No. 20
Lateral No. 21

CAUTION !!
Buried Utilities

Remove and Replace
28 Sq. Yds. paved Road
See detail, Sht. No. 10

Sta. 0+50.00
Const. 2
Type A

Temp. Const. Esmt.

10' Sanitary Sewer Esmt.

20' Temp. Const. Esmt.

SPURRIER'S

Stubs
See detail, sht 10

"S", Sta. 0+75.00
40.00' Right

Install 50.00 L.F.
8" Pipe

LATERAL No. 21

Brick Garden

Gravel Drive

Evergreens

Shrubs

Mailbox

Asphalt Road

Baseline "S"

Sta. 5+98.00
10.00' Left

Install ~~165.00~~ L.F.
8" Pipe 164.85

Remove and Reset
15" RCP as required

Buried CATV (Multimedia Cablevision)

12" RCP

15" CMP

Split Rail Fence

Remove and Replace
18 Sq. Yds. Unpaved Drive
See detail, Sht No. 10

LATERAL No. 21A
See sheet 50A

LATERAL No. 21
See sheet 50A

CREST

STREET .08
Install 180.00 L.F.
8" Pipe

Sta. 7+03.00
10.00' Left

Sta. 10+05.12
Const 20-4
Type A
06.21

Sta. 10+55.12
Const 20-5
Type A

Sta. 0+52.00
10.00' Left
48.72

Install 50.00 L.F.
8" Pipe

Remove and Reset
20 Sq. Yds. paved Road
See detail, Sht No. 10

Baseline "S"
54.03

Remove and Reset
Fence as required

Install 2-4" Stubs
See detail, Sht no. 8

Const Esmt.

"S", Sta. 0+52.00
40.00' Right

BM #13 - Chiseled "□" in the southwest corner of a Concrete Driveway, 20' north of centerline Ballaire and 105' west of centerline Crest
Elev. = 1345.00 (MSL)

Concrete Driveway

Mailbox

Buried CATV

Wood Fe.

Chain Link Fe.

Gravel Drive

Evergreens

Shrubs

Grapevine

Conc. Drive

Gas light

Conc. Post

Water line

Asphalt Road

Baseline "S"

Brick Garden

Stubs

Const Esmt.

Lateral No. 20

Lateral No. 21

CATV Ped.

Wood Fe.

Buried CATV

Chain Link Fe.

Gravel Drive

Evergreens

Shrubs

Mailbox

Asphalt Road

Baseline "S"

Brick Garden

Stubs

Const Esmt.

Lateral No. 20

Lateral No. 21

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1350
1340
1330

20-2 Top Elev.= 1345.5 .93
℄ = 1334.42 .35
℄ IN = 1334.62 .58
from Lateral No. 21
(continued from above)
164.85 ~~165.00~~ L.F. 8" Pipe @ 0.40%

20-3 Top Elev.= 1345.8 .81
℄ = 1335.08 .11
℄ IN = 1335.28 .31
from Lateral No. 21A
Exist. Ground
.08 180.00 L.F. 8" Pipe @ 0.40%

20-4 Top Elev.= 1344.55 .08
℄ Out = 1335.84
℄ In = 1336.04
48.72 ~~50.00~~ L.F. 8" Pipe @ 0.40%

20-5 Top Elev.= 1345.7 .57
℄ IN = 1336.57 (4" ISH) From 8-4" Stubs
℄ IN = 1336.50 From 4-4" Stubs (NW)

20-2 Top Elev.= 1345.8
℄ = 1337.00
50.00 L.F. 8" Pipe @ 0.40%

6+00 7+00 8+00 9+00 10+00 0+00

No	Revision	By	Date
1	Update per PEC Proj. No. 34-91060	RJ	4/8/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 20 & 21

Sht. 41 of 51

PART 3B

86.61
Sta. 13+71.66 LATERAL No. 13
Sta. 0+20.00 LATERAL No. 22
13-5 0+00.00

Barb Wire Fc.
8' Utility Easement
Osage Orange
20' Temp. Const. Esmt.
HIGHLAND
Bushes
Rosebush
Osage Orange
85.03
Sta. 3+65.00
Const. 22-1
Type A
Junk Pile
15'x15' Fc.
Shed
Osage Orange
ACRES
© 10' Easement
Osage Orange
6" Water Line
CAUTION!! Buried Utilities
6" Water Line
2" Steel Gas Line (KPL Gas Service)
Remove and replace 140 Sq. Yds. Unpaved drive See detail, Sht. No. 10

LATERAL No. 22
PI 4-A
PI 3-A Baseline "T"
14 0+00
1/2" Iron Pipe
10' San. Sew. Esmt.
Gate
Baseline "T"
20' Temp. Const. Esmt.
Evergreens
10' Water Line Easement
Water Valve
Gravel Drive
Bush
Mailbox
Saplings
20' San. Sewer Esmt.
20' Temp. Const. Esmt.

Ø "2", Sta. 14+42.13
14+87' Right
LATERAL No. 13
See Sht. No. 25
Barb Wire Fc.
13' Osage Orange Hedgerow
Hackberries
Cluster Osage Oranges
Barb Wire Fc.
Hackberry
Hackberries
Barb Wire Fc.
SPURRIER
SUNSWEPT
ACRES
3" Tree
Black Locust (6")
3" Mimosa
Chain Link Fc.
Oak
Elm
Oak
Sapling

BM# 16-Chiseled "□" in the northeast corner of a concrete Septic Tank cover. 85' west of centerline Casper and 280' south of the north line of the southwest 1/4, Sec. 34, T27S, R2E. Elev.=1350.33 (MSL)

.03
Install 385.00 L.F. 8" Pipe

Ø "T", Sta. 3+34.03
14.36' Left

332.11
Install 328.96 L.F. 8" Pipe

PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vert. 10 5 0

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

13-5 Top Elev.= 1347.9 48.98
℄ IN = 1331.47 ✓ From Lat. 13 (E)
℄ Out = 1331.33
℄ IN = 1331.05
32.05
Existing Ground
22-1 Top Elev.= 1349.5 50.01
℄ IN = 1334.93 ✓
.68
℄ E = 1334.25
.03
385.00 L.F. 8" Pipe @ 0.75%
332.11
328.96 L.F. 8" Pipe @ 0.40%
(continued below)
1350
1340
1330
0+00 1+00 2+00 3+00 4+00 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-81051-10-024
Date August 1981
Designed by MDS, MDK
Drawn by TC, BC, GM

9+95.11
Sta. 9+73.96
Const. 22-3
Type 29C
Lateral No. 29
See Sht. No. 44
Temp. Const. Esmt.
10' Easement
CAUTION!! Buried Utilities
11+20.56
Sta. 10+98.96
Const. 22-4
Type A
Remove and replace 33 Sq. Yds. Unpaved road See detail, Sht. No. 10

Sta. 6+93.96
Const. 22-2
Type C 28
7+17.14
HIGHLAND
8' Easement
CAUTION!! Buried Utilities
20' Temp. Const. Esmt.
Sta. 8+93.96
Const. 22-2A
Type A
7+17.13
ACRES
Chain Link Fc.
Joven Wire Fc.
Elms
Lateral No. 28
See Sht. No. 44
Lateral No. 29
See Sht. No. 44
Temp. Const. Esmt.
10' Easement
CASPER LANE
Gravel Road (PRIVATE STREET)
10' City of Wichita Water line Esmt. (Misc. Bk. 607, Page 240)
Temp. Const. Esmt.
10' Water line Esmt.
20' San Sewer Esmt.
20' Temp. Const. Esmt.
Temp. Const. Esmt.
San. Sew. Esmt.
Lateral No. 22
San. Sewer Esmt.
10+00
(Baseline "T")
Hedgerow
Saplings
3" Oak
Elm
Conc. Drive
Chain Link Fc.
Gate
Saplings
Ø "T", Sta. 6+63.00
0.70' Right
Remove and replace 17 Sq. Yds. Unpaved drive See detail, Sht. No. 10
Asphalt Drive
Chain Link Fc.
Chain Link Fence
Mailbox
Remove and replace 4 Sq. Yds. Paved drive 7 Sq. Yds. Unpaved drive See detail, Sht. No. 10
Concrete Drive
Temp. Const. Esmt.
-30' Private Right-of-Way Easement (Film 352, Page 8)
Install 199.50 8" Pipe 196.99
Lateral No. 30
See Sht. No. 40
SPURRIER'S SUNSWEPT ACRES
Install 80.50 L.F. 8" Pipe .98
Wood Fence
Gate
Ø "T", Sta. 8+62.5
5.89' Right
Ø "T", Sta. 9+43.00
0.93' Right
Install 125.00 L.F. 8" Pipe .45
House
2" Laundry Post
Rock Drive
Ø "T", Sta. 10+68.00
10.00' Right
Elm
Elm
Elm
Cat Gate Post
Barbed Cable
Cat Gate Post
Chain Link Fc.
Gate
Ultimate Cul-de-sac
BELLAIRE AVE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

RECORD DRAWING
MDK PROJ. ENG. 7/12/87 DATE
TES ENG. DATE

22-2 Top Elev.= 1351.14 50.85
℄ IN = 1343.90 (8") from Lateral 28
℄ IN = 1336.43 From drop MH (E)
.96
℄ E = 1336.15
℄ IN = 1334.22
22-2A Top Elev.= 1350.6 49.54
.36
℄ E = 1336.65
℄ IN = 1337.02
38.08
℄ IN = 1337.25 (8") from Lateral 30
22-3 Top Elev.= 1352.9 49.91
.98
℄ E = 1337.27
℄ IN = 1343.27 (8") from Lateral 29
.45
℄ IN = 1337.58 From drop MH Lat. 29
22-4 Top Elev.= 1352.25 50.60
.03
℄ E = 1337.77
Existing Ground
196.99
199.50 L.F. 8" Pipe @ 0.40%
.98
80.5 L.F. 8" Pipe @ 0.40%
.45
125.00 L.F. 8" Pipe @ 0.40%
(continued from above)
1360
1350
1340
6+00 7+00 8+00 9+00 10+00 11+00

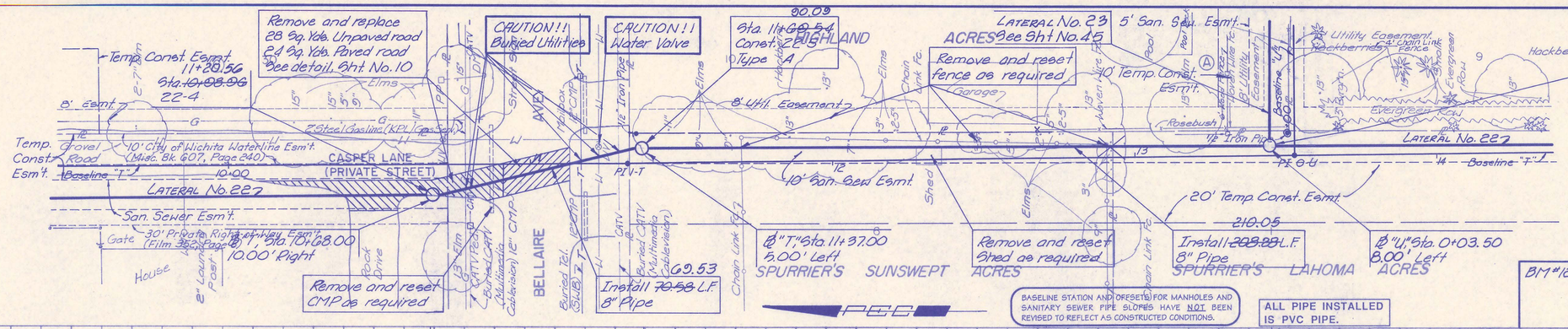
No	Date	By	Revision
1	12/14/91	RJ	Update per P.E.C. Proj. No. 34-91080

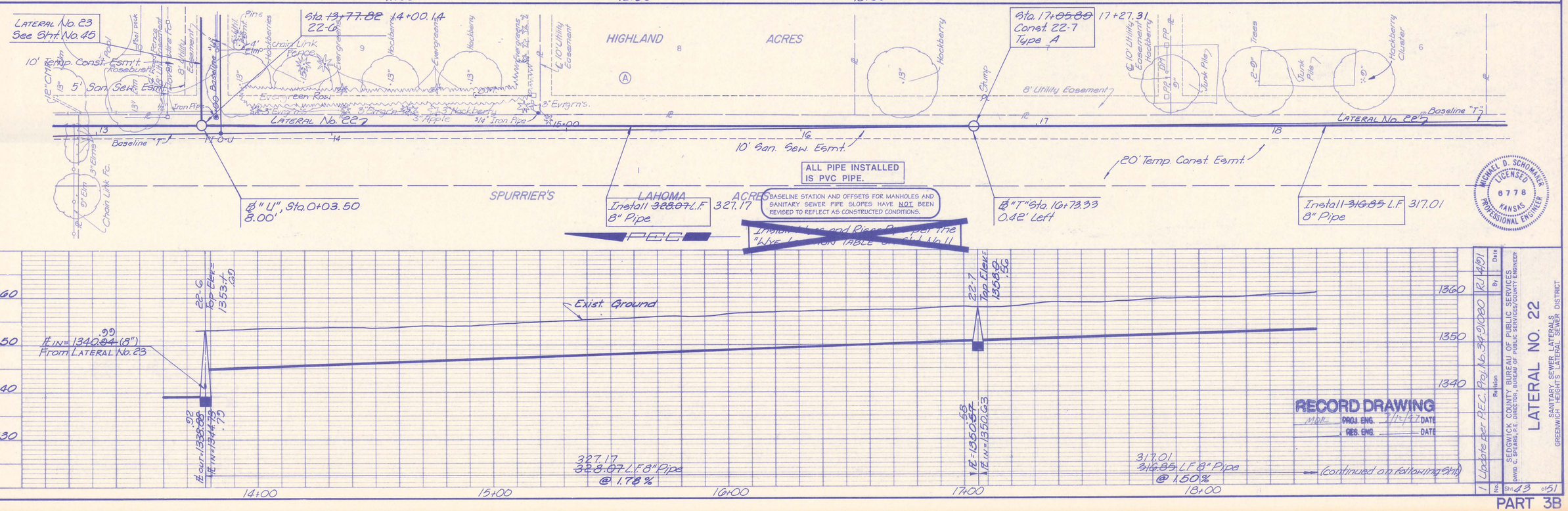
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 22
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 42 of 51

PART 3B





PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-8105-10-022
Drawn by TC, SCGM | Date August 1981

No	By	Date	Revision
1	KJ	4/6/01	Update per HEC. Proj. No. 34-9108.0

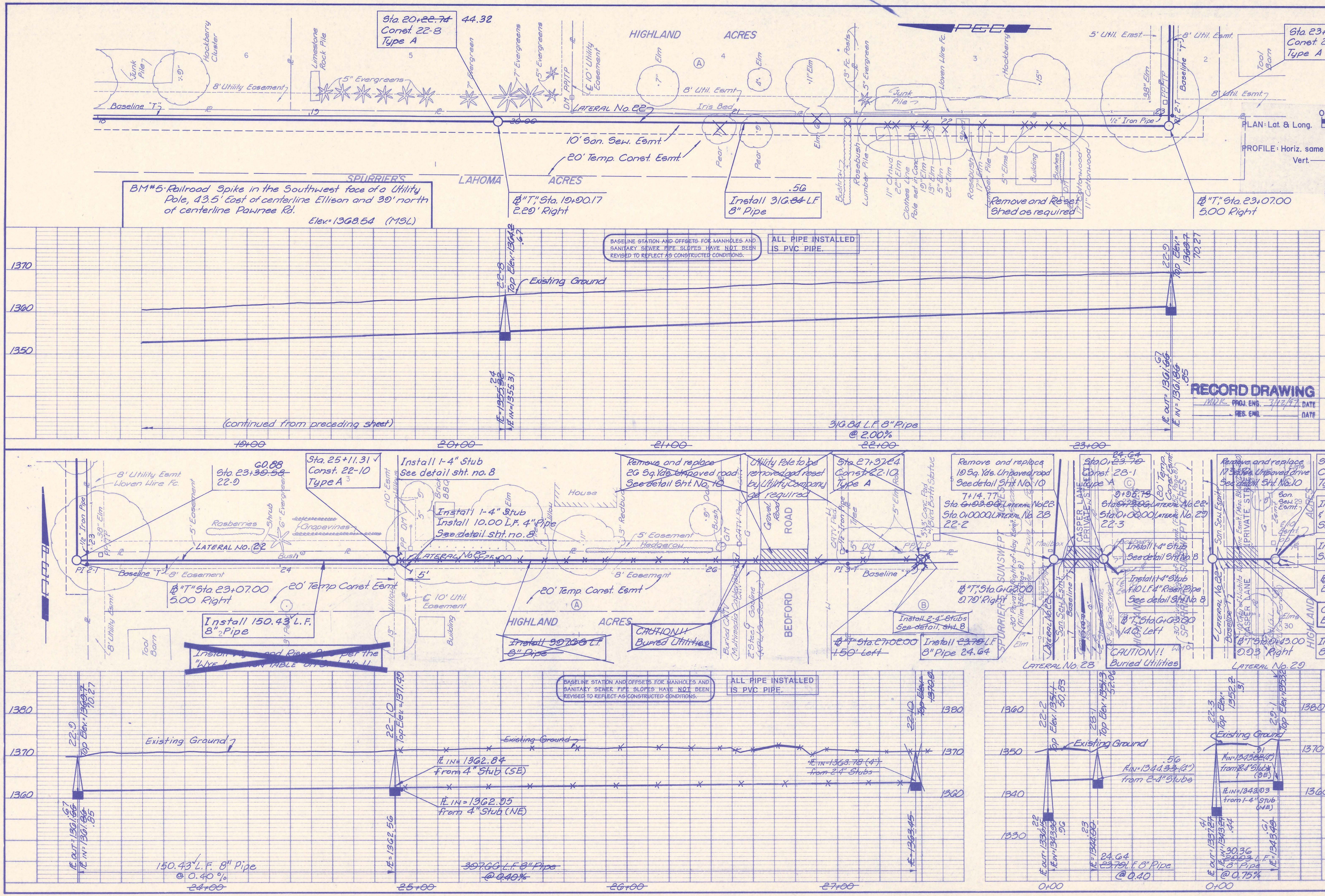
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS - LATERAL SEWER DISTRICT

LATERAL NO. 22

Sht 43 of 51

PART 3B



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TC, SC, GM
Job No. 34-8105-10-024
Date August 1981

No.	Revision	By	Date
1	Update per P.E.C. Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 22, 28 & 29

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 44 of 51

PART 3B

Sta. ~~13+77.82~~ LATERAL No. 22 = Sta. 0+00.00 LATERAL No. 23
22-G

14+00.76

LATERAL No. 22
See Sht. No. 43

HIGHLAND ACRES

Remove and Reset fence as required

10' Temp. Const. Esm't.

5' San. Sewer Esm't.

8' Util. Esm't.

Baseline "U"

0+00

@ "U", Sta. 0+03.50
8.00' Left

20' Temp. Const. Esm't.

BM #12 - Railroad Spike in the southeast face of a Utility Pole, 25' west of centerline Bedford and 31' north of centerline Bellaire
Elev. = 1355.10 (MSL)

Sta. 3+~~00.50~~
Const. 23-1
Type A

00.17

LATERAL No. 23

12" Iron Pipe

306.17
Install ~~309.50~~ L.F. 8" Pipe

@ "U", Sta. 3+13.00
8.00' Left

BEDFORD ROAD

Remove and Replace 20 Sq. Yds. Paved Road See detail, Sht. No. 10

Remove and Reset fence as required

Sta. ~~4+76.50~~
Const. 23-2
Type A

77.35

20' Temp. Const. Esm't.

5' San. Sewer Esm't.

8' Util. Esm't.

½" Iron Pipe

See Sht. 50A

Baseline

10' San. Sew. Esm't.

Storage

Antenna

Sprinkler Heads

20' Temp. Const. Esm't.

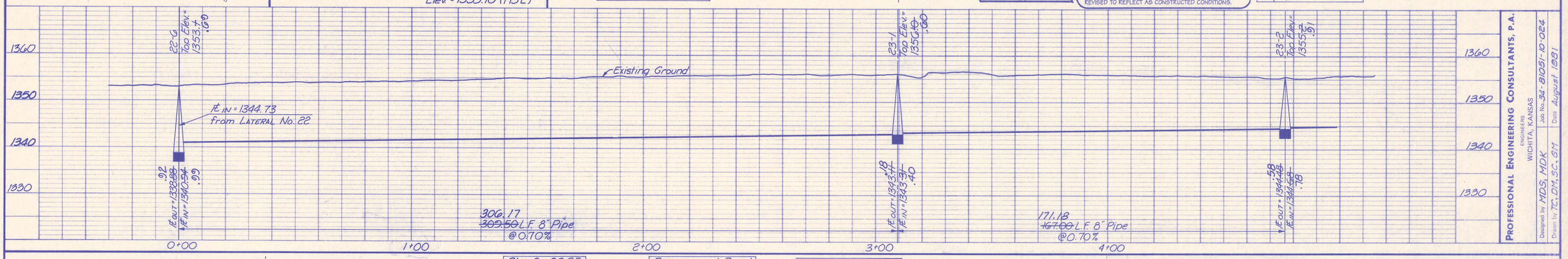
@ "U", Sta. 4+80.00
8.00 Left

CAUTION !! Buried Utilities

ALL PIPE INSTALLED IS PVC PIPE.

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

171.18
Install ~~167.00~~ L.F. 8" Pipe



CAUTION !! Sprinkler Heads

Sta. 6+60.85
Const. 23-2
Type A

Remove and Reset fence as required

Remove and Reset fence as required

Sta. 8+25.85
Const. 23-3
Type A

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

Install 2-4" Stubs See detail, Sht. no. 10

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

8' Util. Esm't.

½" Iron Pipe

Woven Wire Fc.

Baseline "U"

5+00

5' Util. Esmt.

10' San. Sewer Esm't.

Sprinkler Heads

HIGHLAND ACRES

20' Temp. Const. Esm't.

Lateral No. 23

12" Iron Pipe

Buried Tel. (SWB)

Woven Wire Fc.

10' San. Sewer Esmt.

20' Temp. Const. Esm't.

Sta. 8+20.06
12.19' Right

Install 165.00 L.F. 8" Pipe

Install Riser & Cap at the "Wire Location Table" Station

PI 1-U

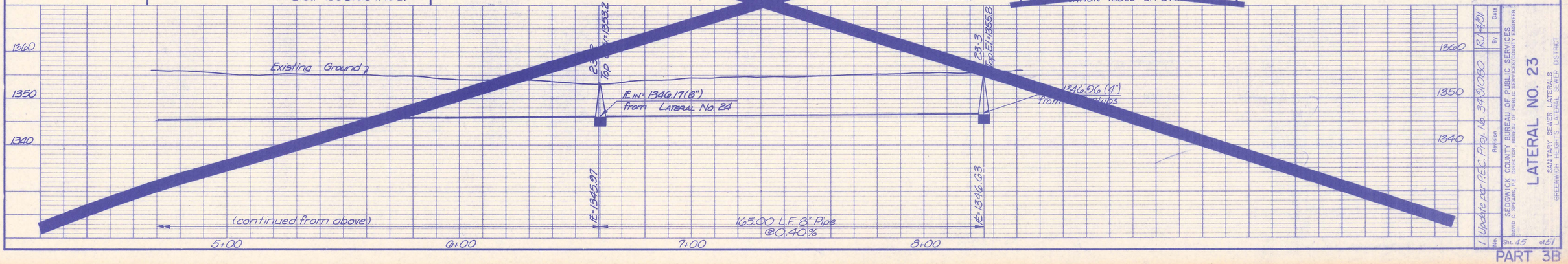
5' Util. Esmt.

RICHFIELD ROAD

BM #10 - Chiseled "X" in the southeast corner of a Concrete Driveway at 2241 Richfield, 18' west of centerline Richfield.
Elev. = 1358.08 (MSL)

LATERAL No. 24
See Sht. No. 40

Sta. 6+64.00



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10 024
Drawn by TC, DH, SC, BH | Date August 1991

No.	By	Date	Revision
1		12/14/01	Update per PEC Proj. No. 34-91080

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
David C. Spears, P.E. Director, Bureau of Public Services/County Engineer

LATERAL NO. 23

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 45 of 57

PART 3B

Sta. ~~6+60.79~~, LATERAL No. 23 = 6+62.05
Sta. 0+00.00, LATERAL No. 24
23-3

10' San. Sew. Esmt.

HIGHLAND

Baseline "V"

P.I. 0-V

0+00

Buried Tel. (SWB)

℄ "U", Sta. 0+04.00
2.38' Right

LATERAL No. 23
See Sht No. 45

20' Temp. Const. Esmt.

BM # 10 - Chiseled "□" in the southeast corner of a Concrete Driveway at 224 Richfield, 18' west of centerline Richfield.
Elev. = 1358.08 (MSL)

Sta. ~~3+14.37~~ 3+95.57
Const. 24-1
Type B

Remove and Reset fence as required

LATERAL No. 24

2½" Wood Posts

395.57
Install ~~314.37~~ L.F. 8" Pipe

ALL PIPE INSTALLED IS PVC PIPE.

3+98.20
℄ "V", Sta ~~3+16.77~~
10.88' Right
.90

ACRES

Baseline "V"

5+00

LATERAL No. 24

20' Temp. Const. Esmt.

312.94
Install ~~314.36~~ L.F. 8" Pipe

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vert. 10 5 0

23-2
Top Elev. = 1353.2
Existing Ground
℄ Out = 1345.97
℄ In = 1346.17

395.57
~~314.37~~ L.F. 8" Pipe
@ 0.40%

24-1
Top Elev. = 1357.0
℄ Out = 1347.43
℄ In = 1349.43

24-1
Top Elev. = 1358.38
Existing Ground
℄ Out = 1347.75
℄ In = 1349.68

312.94
~~314.36~~ L.F. 8" Pipe
@ 0.68%

(continued below)

0+00 1+00 2+00 3+00 4+00 5+00

1360 1350 1340 1330

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-31051-10-024
Drawn by TCS, DM, SC, GM | Date August 1991

Remove and Reset fence as required

Sta. 6+28.78
Const. ~~24-2~~
Type A

Remove and Reset fence as required

Sta. 7+08.51
Const. 24-2
Type A

Sta. 0+43.10
Const. 24-3
Type ~~A~~ B

HIGHLAND

Baseline "V"

5+00

LATERAL No. 24

20' Temp. Const. Esmt.

BM # 0 - Railroad Spike in the west face of a Utility Pole, 25' east of centerline Richfield and 310' north of centerline Pawnee Rd.
Elev. = 1364.00 (MSL)

7+11.30
℄ "V", Sta. ~~6+31.13~~
~~10.84~~' Right
2.96'

ALL PIPE INSTALLED IS PVC PIPE.

233.78
Install ~~314.37~~ L.F. 8" Pipe

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ACRES
LATERAL No. 24A
See Sht. no. 51A

℄ "V", Ext. Sta. 0+45.50
~~11.00~~' Right
3.00'

RECORD DRAWING
MDK PROJ. ENG. 7/12/91 DATE
RES. ENG. DATE

MICHAEL D. SCHUMACHER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

24-3
Top Elev. = 1366.3
℄ In = 1354.06
from LAT. 24-A

24-2
Top Elev. = 1361.2
℄ Out = 1351.93
℄ In = 1351.68

24-2
Top Elev. = 1361.2
℄ Out = 1351.57

(continued from above)

233.78
~~314.37~~ L.F. 8" Pipe
@ 0.40%

Existing Ground

5+00 6+00 7+00 8+00 0+00

1370 1360 1350 1340

No	Revision	By	Date
1	Update per F&C Proj. No. 34910080	RJ	4/01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
SANITARY SEWER LATERALS
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 24

Sht. 40 of 51

PART 3B

~~Sta. 0+45.10~~
~~24-3~~

Sta. 0+43.10, Lat. 24 (Back) =
Sta. 0+51.10, Lat. 24 (Ahead) =
Sta. 10+00.00 Lat. 24-A
24-3
HIGHLAND

Utility Pole to be removed and reset by Utility Company as required

Sta. 11+31.00
Const. 24-4
Type A

ACRES

Install 1-4" Stub
See detail, sht. 10

20' Temp. Const. Esmt. — Horseshoe Pit

10' San. Sewer Esmt.

Lateral No. 24

℄ "V" Ext, Sta. 0+45.50
11.00' Right
3.00'

180.70
Install ~~188.80~~ L.F. 8" Pipe

BM #0 - Railroad Spike in the west face of a Utility Pole, 25' east of centerline Richfield and 310' north of centerline Pawnee Rd.
Elev. = 1364.06 (MSL)

℄ "V", Sta. 11+13.50
1.00' Right

Install 1-4" Stub
See detail, sht. no. 8

73.56

Sta. 21+~~50.20~~ Lateral No. 13 =
Sta. ~~0+20.00~~ Lateral No. 25
13-7 0+00.00

Lateral No. 13
See Sht. No. 26

BM #14 - Chiseled "□" in the north end of the east Concrete Headwall of a Driveway Culvert, 10' south of centerline Clark and 110' west of centerline Richfield
Elev. = 1340.00 (MSL)

℄ "A", Sta. 22+43.53
0.79' Left

Install ~~318.76~~ L.F. 8" Pipe 328.10

20' Temp. Const. Esmt.

Lateral No. 25

5' San. Sewer Esmt.

10' Util. Esmt.

CAUTION!! Tele Box

CAUTION!! Buried Utilities

Sta. ~~2+88.76~~ 3+28.19
Const. 25-1
Type A

Buried CATV (Multimedia Cablevision)

Buried Tel (SWB)

℄ "X", Sta. 3+15.00
7.00' Right

CLARK STREET

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Existing Ground

℄ IN = 1357.32 (4") from 2-4 Stubs

180.70
~~188.80~~ L.F. 8" Pipe @ 2.10%

℄ IN = 1333.75 from Lat. 13

328.10
~~318.76~~ L.F. 8" Pipe @ 0.58%

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10-024
Drawn by TC, DM, SC, BM | Date August 1981

Sta. ~~2+88.76~~
25-1 3+28.19

CAUTION!! Buried Utilities

Sta. 3+57.52
Const. 25-2
Type A
81.63

Remove and Reset Fence as required

Sta. 6+~~18.16~~
Const. 25-3
Type A
30.35

Sta. 8+~~67.18~~
Const. 25-4
Type A
89.15

PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vert. 10 5 0

Buried CATV (Multimedia Cablevision)

Buried Tel (SWB)

Lateral No. 25

Baseline "X"

℄ "X", Sta. 3+73.50
1.50' Right

20' Temp. Const. Esmt.

Install ~~58.76~~ L.F. 8" Pipe 53.44

HIGHLAND

Install ~~200.00~~ L.F. 8" Pipe 248.72

Lateral No. 20
See Sht. No. 48

℄ "X", Sta. 6+35.50
1.43' Left

@ 10' Util. Esmt.

20' Temp. Const. Esmt.

Install ~~240.06~~ L.F. 8" Pipe 258.80

BM #11 - Chiseled "□" in the south end of the east curb to driveway, 27' north of centerline Bellaire and 64' west of centerline Richfield
Elev. = 1352.72 (MSL)

℄ "X" Ext., Sta. 8+84.50
7.00' Left

@ 20' San. Sewer Esmt.

20' Temp. Const. Esmt.

Install 1-4" Stub
℄ 12 L.F. 4" Riser Pipe
See detail, Sht. No. 8

Remove and Replace 42 Sq. Yds. Paved Road
See detail, Sht. No. 10

~~Install ... and Riser Pipe per the "Wye ... TABLE," on Sht. No. 11~~

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Existing Ground

℄ IN = ~~1339.03~~ 1339.25 from 4" Stub

37.82
℄ IN = ~~1339.03~~ from Lateral No. 20

248.72
~~200.00~~ L.F. 8" Pipe @ 0.40%

258.80
~~240.06~~ L.F. 8" Pipe @ 0.40%

RECORD DRAWING
MDK PROJ. ENG. 3/17/97 DATE
GEE ENGR. DATE

No.	By	Date	Revision
1	RJ	4/1/91	Update per P.E.C. Proj. No. 34-91080

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

LATERAL NO. 24 & 25

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

Sht. 47 of 51

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

PART 3B

DELETED

Sta. 8+67.18
25-4

CAUTION !!
Buried Utilities

Remove and Replace
22.9 Sq. Yds. Unpaved Road
See detail, Sht. No. 10

Remove and Reset
fence as required

Sta. 12+01.88
Const. 25-5
Type A

HIGHLAND

AVE.

8" Water line

20' Temp. Const. Esmt.

LATERAL No. 25

@ 20' San. Sewer Esmt.

1½" Iron Pipe

PI 3-X

Baseline "X"

10+00

Install 2-4" Stubs
See detail, sht. no. 10

PI 4-X

@ 20'x25' San. Sew. Esmt.

20' Temp. Const. Esmt.

@ "X" Ext., Sta. 8+84.50
7.00' Left

BM # 11 - Chiseled "□" in the south end of the east
to Driveway, 27' north of centerline Bellaire
and 64' west of centerline Richfield
Elev. = 1352.72 (MSL)

Gravel Road

RUE

Utility Pole to be
removed and reset
by Utility Company
as required

@ "X" Ext., Sta. 12+08.00
5.00' Left

1360
1350
1340
1330

25-4
Top Elev=1348.2

Existing Ground

25-5
Top Elev=1352.8

℄ IN=1340.60
from 2-4" Stubs

℄ IN=1330.36

334.70 L.F. 8" Pipe
@ 0.40%

0+00
10+00
11+00
12+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by: MDS, MDK
Job No. 34-81051-10-024
Drawn by: TC, DM, SC, GM
Date August 1981

6+30.35 Sta. ~~6+18.12~~ = Lateral No. 25 =
Sta. 0+00.00, Lateral No. 20
25-3

Lateral No. 25
See Sht No. 47

CAUTION !!
Buried Utilities

Remove and Replace
17.5 Sq. Yds. Unpaved Road
See detail, Sht. No. 10

Remove and Reset
fence as required

Sta. 3+30.81
Const. 26-1
Type A

.57

8" Drive

Yard Hydrant

Conc. Sidewalk

Conc. Pad

Buried TV Box

Baseline "Y"

HIGHLAND

8" Elms

8" Water line

20' Temp. Const. Esmt.

LATERAL No. 20

0+00

1½" Iron Pipe

@ 20' San. Sewer Esmt.

Board Fc.

Wood Piles

Shed

Garage

4" Tree

C.O.

S.M.H.

Gravel Road

RUE

Install ~~Wye and Riser Pipe~~ at the
"Wye" ~~shown on TABLE~~ on Sht No. 11

Utility Pole to be
removed & reset
by Utility Company
as required

Install 330.8± L.F.
8" Pipe

.57

Buried CATV
(Multimedia
Cablevision)

Iron Post

Iron Pipe

3" Plum

Spruce

10"

12"

Pines

House

Install 1-4" Stub
See detail sht. no. 8

PI Y

@ "Y", Sta. 3+29.04
5.00' Right

BM # 15 - Chiseled "□" in the top, west end of a Driveway
Culvert, 10' north of centerline Clark and 37'
east of centerline Bedford
Elev. 1350.30 (MSL)

1360
1350
1340
1330

25-3
Top Elev=1348.8
49.17

Existing Ground

26-1
Top Elev=1352.4
.54

℄ IN=1337.68
from LAT. 25

℄ OUT=1337.63
℄ IN=1336.03
31.82

℄ OUT=1338.28
℄ IN=1339.55
1339.45

℄ IN=1330.68
from 1-4" stub

.57
330.8± L.F. 8" Pipe
@ 0.40%

0+00
1+00
2+00
3+00

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

RECORD DRAWING
MDK PROJ. ENG. 3/12/87 DATE
RES. ENGR. DATE

MICHAEL D. SCHOMMER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Update per PEC Proj. No. 34-91080	RJ	4/91

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 25 & 26

Sht. 48 of 51

PART 3B

57+27.19

12' Temp. Const. Esmt.

Sta. ~~50+61.27~~, Lateral No. 13 = Sta. 0+00.00, Lateral No. 27
13-18

Remove and Replace 13 Sq. Yds Unpaved Road See detail, Sht. No. 10

GREENWICH HEIGHTS

Sta. ~~2+00.00~~ Const. 27-1 Type A

1+98.92

CAUTION!! Buried Utilities

Remove and Replace 23 Sq. Yds Unpaved Road See detail, Sht. No. 10

CAUTION!! Buried Utilities

1ST ADDITION

Remove and Replace 10 Sq. Yds. Unpoved Drive See detail, Sht. No. 10

Sta. 5+~~28.10~~ Const. 27-2 Type A

28.38

20' Temp. Const. Esmt.

10' Temp. Const. Esmt.

LATERAL No. 27

Abandoned Conoco Pipeline

198.92
Install 200.00 L.F. 8" Pipe

℄ "A", Sta. 50+83.50
2.40' Left

℄ "Z", Sta. 1+07.58
44.31' Left

Asphalt Road

12" Water line

1/2" Rebar

.45
Install 320.10 L.F. 8" Pipe

CAUTION!! Buried Utilities

LATERAL No. 13
See Sht. No. 20

PI 0-Z

Baseline "Z"

PAWNEE ROAD

Baseline "Z"

5+00
PI 1-Z

℄ "Z", Sta. 5+50.00
12.00' Right

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. 10 5 0

13-18
Top Elev.= 1366.8
4.7.02

27-1
Top Elev.= 1360.83
14.53

27-2
Top Elev.= 1373.3
14.09

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Exist. Ground

1370
1360
1350

℄ IN = 1353.81
from LAT. 13 (5)

℄ OUT = 1353.66
℄ IN = 1353.66
.14

198.92
200.00 L.F. 8" Pipe
@ 0.40%

℄ OUT = 1359.13
℄ IN = 1359.57

.45
320.10 L.F. 8" Pipe
@ 0.40%

.53
℄ OUT = 1360.78
℄ IN = 1360.25
Cl. II

0+00 1+00 2+00 3+00 4+00 5+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK
Drawn by TCI, DM, SC, EH
Job No. 34-81051-10-024
Date August 1981

Sta. 5+~~28.10~~ 28.38
25-2

10' Temp. Const. Esmt.

Utility Pole to be removed and reset by Utility Company as required

CAUTION!! Buried Utilities

Remove and Reset fence as required

Remove and Reset fence as required

Sta. 0+28.24 .66
Const. 27-3 Type A

ROAD

5+00

PI 1-Z

Baseline "2"

Row of 8" Elms

Chain Link Fc.

8" Evergreens

Row of Pine Trees

20' Temp. Const. Esmt.

LATERAL No. 27

Tele line (S.W.B.)

12" Water line

6" Abandoned Conoco Pipeline

4" Pine

4" Evergreen

Evergreen Bush Row

6" Willow

10" Maple

6" Maple

Firethorne Row

6" Mulberry Bushes

4" Elm

10' Esmt.

Bush Row

Baseline "2"

10+00

LATERAL No. 27

20' Temp. Const. Esmt.

PAWNEE ROAD

GREENWICH HEIGHTS

1ST ADDITION

℄ "Z", Sta. 5+50.00
12.00' Right

~~Install Wyes and Riser Pipes per the "Wye Location Table" on Sht. No. 11~~

400.28
~~399.14~~ L.F. 8" Pipe
@ 0.40%

℄ "Z", Sta. 0+58.14
12.40' Right

BM #G - Railroad Spike in the southeast face of a Utility Pole 38' north of centerline Pawnee Rd. and 63' west of centerline Lynnroe
Elev. = 1372.105 (MSL)

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

27-2
Top Elev.= 1373.3
14.09

27-3
Top Elev.= 1375.0
14.76

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

Exist. Ground

1370
1360
1350

℄ OUT = ~~1366.28~~ 1366.83
℄ IN = ~~1366.28~~ 1366.68
Cl. II

400.28
~~399.14~~ L.F. 8" Pipe
@ 0.40%

℄ OUT = 1366.75
℄ IN = 1366.67

6+00 7+00 8+00 9+00

No	Revision	By	Date
1	Update per P&C Proj No. 34-01060	RJ	11/4/01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 27

Sht. 40 of 51

PART 3B

Sta 9+28.84
27-3

Remove and reset fence as required

Baseline "Z"

Chain Link Fe.

10+00

Buried Tele. (SWB)

T LATERAL No. 27

10' UHl. Esmt.

20' Temp. Const. Esmt.

Remove and Reset 6' wood structure

CAUTION!! Water Hydrant

Remove and reset fence as required

20' Temp. Const. Esmt.

10' San. Sew. Esmt.

Remove and reset fence as required

Sta. 13+27.38
Const. 27-4
Type A

26.81

PI 2-Z

Baseline "Z"

Chain Link Fe.

GREENWICH HEIGHTS 1 ST ADDITION GREENWICH HEIGHTS 2 ND ADDITION

℄ "Z", Sta. 9+58.14
12.40' Right

398.15
Install ~~398.14~~ L.F 8" Pipe

8' UHl. Esmt.

20' Temp. Const. Esm't.

℄ "Z", Sta. 13+50.50
4.50' Right

PLAN: Lat. & Long. 0 20 40

PROFILE: Horiz. same as above
Vert. → 10 5 0

BM "G" Railroad Spike in the Southeast Face of a Utility Pole 38' North of ℄ Pawnee Rd. and 63' West of ℄ Lynnroe
Elev. = 1372.10 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1380 1370 1360 1350

27.3 Top Elev.= 1375.50 ~~1376.76~~

Exist. Ground

℄ Elev.= ~~1362.67~~ 1362.75

398.15
~~399.14~~ L.F 8" Pipe
@ 0.40%

27.4 Top Elev.= 1375.67 ~~1377.67~~

Invert= ~~1364.52~~ 1364.77
℄ Elev.= ~~1364.77~~ 1364.97
E.W.= ~~1364.57~~

10+00 11+00 12+00 13+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, MDK | Job No. 34-81051-10-024
Drawn by TC, BC, GM | Date August 1981

Sta 13+27.38
27-4

Remove and reset fence as required

20' Temp. Const. Esmt.

10' San. Sew. Esmt.

LATERAL No. 27

Buried Tele. (SWB)

Chain Link Fe.

15+00

PI 2-Z

Baseline "Z"

8' Util. Esmt.

GREENWICH HEIGHTS

℄ "Z", Sta. 13+50.50
4.50' Right

Install ~~1-4" Stub and Riser~~ per the "Water Connection Table Sheet No. 11"

276.09
Install ~~268.79~~ L.F 8" Pipe

℄ "Z", Sta. 16+28.00
8.00' Left

CAUTION!! Cable TV Box

~~16+02.90~~
Sta. ~~15+96.17~~
Const. 27-5
Type A

CAUTION!! Buried Utilities

PI 3-Z

LATERAL No. 27

Buried Tele. (SWB)

Baseline "Z"

8' Util. Esmt.

10" Tree

Utility Pole to be removed and reset by Utility Company as required

289.11
Install ~~287.92~~ L.F 8" Pipe

92.01
Sta. 18+~~04.00~~
Const. 27-6
Type A

℄ "Z", Sta. 10+32.50
4.50' Left

3/4" Iron Pipe

Install 1-4" Stub
See detail, sht. no. 8

RECORD DRAWING
MDK PROJ. ENG. 3/12/97 DATE
RES. ENG. DATE

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

1380 1370 1360 1350

27.4 Top Elev.= 1376.77 ~~1377.87~~

Exist. Ground

27.5 Top Elev.= 1375.96 ~~1377.83~~

Invert= ~~1364.52~~ 1364.77
℄ Elev.= ~~1364.77~~ 1364.97
E.W.= ~~1364.57~~

276.09
~~268.79~~ L.F 8" Pipe
@ 0.40%

Invert= ~~1365.36~~ 1365.61
℄ Elev.= ~~1365.61~~ 1365.85
E.W.= ~~1365.65~~ 1365.87

1367.52
E in = ~~1366.67~~ (4')
From "A" Stub

27.19 Top Elev.= 1374.37 ~~1374.97~~

℄ Elev.= ~~1364.69~~ 1364.89

289.11
~~287.92~~ L.F 8" Pipe
@ 0.40%

14+00 15+00 16+00 17+00 18+00

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

No.	By	Date	Revision
1			Update per P.E.C. Proj. No. 34-91080-14-01

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 27

Sht. 50 of 51

PART 3B

Sta. G+~~51.12~~ 52.28 Lateral No. 20 = Sta. 0+00.00 Lateral No. 21
20-2

Remove and Reset 15" CMP as required.

Sta. 0+~~45.00~~ 43.72
Const. 21-1
Type A

Ⓑ "S", Sta. 5+98.00
35.00' Right

Install 1-4" Stub
See detail, sht. no 8

15'x15' San. Sewer Esm't.

Ⓑ "S", Sta. 5+98.00
10.00' Left

Lateral No. 20
See Sht. No. 41

Remove and Replace
26 Sq. Yds. Paved Road
See detail, Sht. No. 10

Install ~~45.00~~ 43.72 L.F.
8" Pipe

Sta. 8+~~16.12~~ 17.13 Lateral No. 20 = Sta. 0+00.00 Lateral No. 21A
20-3

Sta. 0+~~45.00~~ 44.25
Const. 21A-1
Type A

CAUTION !!
Buried Utility

Ⓑ "S", Sta. 7+63.00
35.00' Right

Install 1-4" Stub
See detail, sht. no. 8

15'x15' San. Sewer Esm't.

Ⓑ "S", Sta. 7+63.00
10.00' Left

Lateral No. 20
See Sht. No. 41

Remove and Reset
fence as required

Remove and Replace
23 Sq. Yds. Paved Road
See detail, Sht. No. 10

Install ~~45.00~~ 44.25 L.F.
8" Pipe

Install 1-4" Stub
See detail, sht. no. 8

Sta. 3+~~30.86~~ 30.57
26-1

5'x10' San. Sewer Esm't.

Ⓑ "Y", Sta. 3+29.04
5.00' Right

Install ~~249.94~~ 258.90 L.F.
8" Pipe

Sta. 5+~~80.75~~ 89.47
Const. 26-2
Type A

Install 2-4" Stubs
See detail, sht. no. 8

5'x15' San. Sewer Esm't.

Ⓑ "Y" Ext., Sta. 5+78.08
5.00' Right

BM #15- Chiseled "□" in the top nut end of a Driveway Culvert, 10' north of centerline Clark and 37' east of centerline Bedford
Elev. = 1350.36 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

~~43.72~~ 44.25 LF 8" Pipe @0.40%

258.90 ~~249.94~~ LF 8" Pipe @0.40%

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, MDK
Drawn by JLM
Job No. 34-B1051-10-024
Date August 1981

Sta. 4+~~76.50~~ 77.35
23-2

CAUTION !!
Power Pole with Guy Wire

CAUTION !!
Tele. Cable

CAUTION !!
Sprinkler Heads

Remove and Reset
fence as required

Sta. G+~~60.79~~ 62.05
Const. 23-3
Type A

Remove and Reset
fence as required

CAUTION !!
Tele. Cable

Remove and Replace
27 Sq. Yds. Unpaved Road
See detail, Sht. No. 10

Sta. 8+~~29.78~~ 30.74
Const. 23-4
Type A

Install 1-4" Stub
See detail, sht. no. 8

10'x10' San. Sewer Esm't.

Ⓑ "U", Sta. 8+24.00
52.00' Left

Temp. Const. Esm't.

20' Temp. Const. Esm't.

5' San. Sewer Esm't.

Baseline "U"

Ⓑ "U", Sta. 4+80.00
8.00' Left

Install 184.~~29~~ 184.70 L.F.
8" Pipe @ 0.70%

20' Temp. Const. Esm't.

Lateral No. 24
See Sht. No. 46

10' San. Sewer Esm't.

Lateral No. 23

Ⓑ "U", Sta. 6+64.00
2.38' Right

Install ~~168.99~~ 168.60 L.F.
8" Pipe @ 0.40%

10' San. Sewer Esm't.

BM #12- Railroad Spike in the southeast face of a Utility Pole, 25' west of centerline Bedford and 31' north of centerline Bellaire
Elev. = 1355.10 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

SCALE
PLAN: Lat. & Long. 0 20 40
PROFILE: Horiz. same as above
Vertical 10 5 0

RECORD DRAWING
MDK PROJ. ENG. 3/12/87 DATE
RES. ENG. DATE

MICHAEL D. SCHOMAKER
LICENSED
6778
KANSAS
PROFESSIONAL ENGINEER

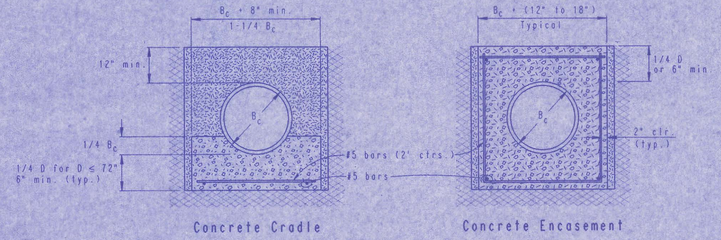
SEDGWICK COUNTY, BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

LATERAL NO. 21, 21A, 23, & 26

Sht. 50A of 51

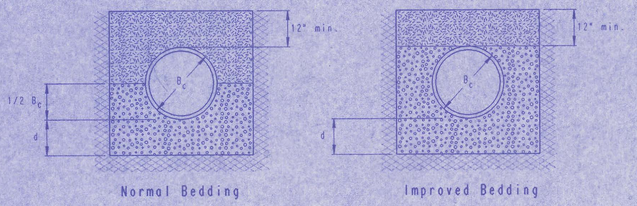
PART 3B



Concrete Cradle

Concrete Encasement

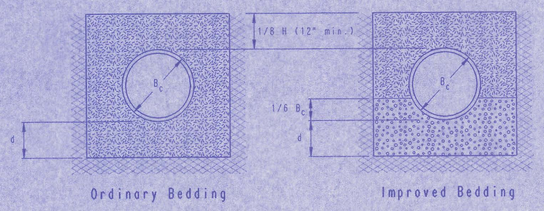
CLASS A



Normal Bedding

Improved Bedding

CLASS B



Ordinary Bedding

Improved Bedding

CLASS C

PIPE ZONE BACKFILLING

B_c =	Outside Pipe Diameter
H =	Backfill from Top of Pipe to Existing Ground
D =	Inside Pipe Diameter
d =	Depth of Bedding Material Below Pipe
=	Granular Bedding Material or Sand-Gravel Bedding
=	Compacted Embedment
=	Concrete (Class III)

Depth of Bedding Material Below Pipe		
D	d(min) Soil	d(min) Rock
27" & smaller	4"	6"
30" to 60"	5"	9"
66" & larger	6"	12"

Granular Bedding Material shall be an approved material consisting of durable crushed rock conforming with the requirements of the latest revision of ASTM C-33 Size No. 67 (3/4" to No. 4); to be placed in not more than 6" layers and compacted by slicing with a shovel or vibrating. Soundness, abrasion, and absorption limits shall be as required for coarse aggregates in Section 03010-Concrete Work in the specifications.

Sand-Gravel Bedding Material - sand-gravel mix meeting Type UD-1 of the 1990 Kansas Standard Specifications for State Road and Bridge Construction.

Compacted Embedment shall be an approved sand material free from debris, organic material, and stones with 100% passing the 3/4" sieve to be placed in uniform layers not more than 6" thick and compacted to 90 percent maximum density as determined by ASTM D1557. Granular Bedding Material may be substituted for all or part of Compacted Embedment Materials.

Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

Class B Bedding shall be used for all flexible pipe.

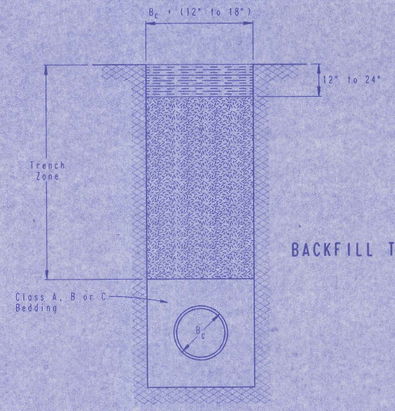
a. Class B Normal Bedding shall be used for PVC Pipe unless wet conditions are encountered.

b. Class B Improved Bedding shall be used for other flexible pipe, and for PVC pipe in wet conditions.

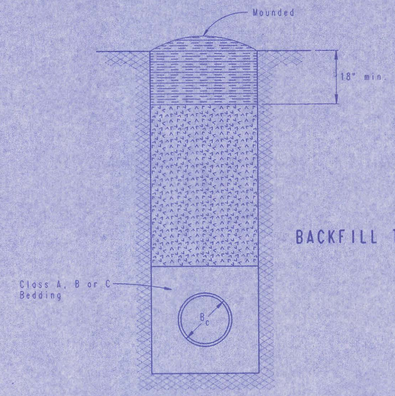
Class C Bedding shall be used for all rigid pipe.

a. Class C Ordinary Bedding shall be used for all rigid pipe unless wet conditions are encountered.

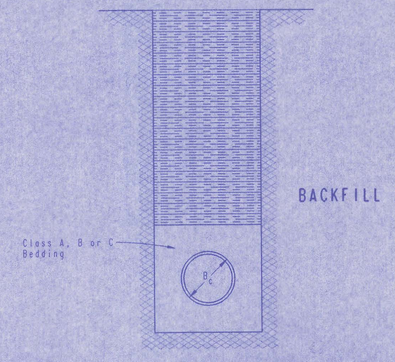
b. Class C Improved Bedding shall be used for wet conditions existing in the trench, as directed by the Engineer, at no additional cost to the Owner. The dimensions shall be equal to that required for "rock" excavation (see specifications).



BACKFILL TYPE I



BACKFILL TYPE II



BACKFILL TYPE III

TRENCH ZONE BACKFILLING

B_c = Outside Pipe Diameter

= Compacted Granular Backfill

= Uncompacted Earth Backfill

= Compacted Earth Backfill

Compacted Granular Backfill material shall be an approved sand material free from debris, organic material and stones with 100% passing the 3/4" sieve and not more than 15% passing a No. 200 sieve; to be jetted and mechanically vibrated into place and compacted to 90% density as determined by ASTM D1557.

Uncompacted Earth Backfill material may be natural soil free from large clods or stones, brush, roots more than 2 inches in diameter, debris, and junk. Flooding with water shall be provided as directed by the Engineer.

Compacted Earth Backfill shall consist of material existing prior to trenching or selected material as directed by the Engineer, and shall be compacted to 90% density as determined by ASTM D1557.

Backfill: Backfill material and compaction requirements shall conform to either Type I, Type II or Type III as specified in the plans. One years maintenance will be required on all backfill.

Backfilling Through Rock: Backfilling through rock shall be performed as specified in the paragraph Backfill above, except that the Pipe Zone is increased to provide eighteen (18) inches of cover over the pipe. When approved by the Engineer the remainder of the backfill may be excavated rock provided the excavated rock has been broken up so that earth and rock will thoroughly mix and not result in voids around the larger pieces of rock. Any excess rock remaining after the trench has been backfilled shall be removed or wasted as directed by the Engineer.

Backfilling Under Pavement: Backfilling under existing or proposed pavement shall be performed as Backfill Type I to a level of two (2) feet from the bottom of the pavement. The remainder of the trench shall be backfilled with selected material, sufficiently damp to be properly compacted in layers not exceeding six (6) inches in depth; compaction shall be performed with mechanical tampers and continued until a relative density of 95 percent of modified density, in conformance with ASTM D1557 is attained.

Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".

No.	Revision	By	Date

BACKFILL DETAILS

ADOPTED AS STANDARD DESIGN SEPTEMBER, 1989
BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PLAN CHECKED CHECKED BY DATE

42.29
Sta. 0+~~43.26~~, LATERAL 24 =
Sta. 0+00.00, LATERAL 24A
24-3

Sta. 1+~~39.36~~ 29.92
Const. 24A-1
Type A

CAUTION!!
Utility Pole and
Deadman

House
on slab
F.F. 1372.33

4
ACRES

BEDFORD ROAD

8' Esm't.
℄ 10' Esm't.
Juniper Bush
16" Elm
12" Elm
6" Osage Orange
12" Hackberry
4" Bush
10' x 25' Esm't.
DM
PP
6" Juniper Bushes
8" Juniper
Juniper Bushes
Juniper Bushes
Senior 2'6" 10'14'6'10"
Elevation 1371.51
8' Easement
28
27
PI 37
Baseline "T"
5' Easement
10' Elms
25'
Esm't.
4" Iron Pipe
CATV Ped.

10' San. Sewer Esm't.
5' Esm't.
20' Temp Const. Esm't.
10' x 25' Esm't.
PI L-V
Baseline "V"
LATERAL No. 24
~~See Sht. Nos 46 & 47~~
22
5" Elm
10" Juniper
12" Elm
10" Juniper
Osage Orange
12" Elm
10" Juniper
8" Juniper
6" Juniper
12" Elm
℄ 6' Esm't.
20' Temp. Const. Esm't.
20' Temp Const. Esm't.
LATERAL No. 24A
℄ 10' San. Sewer Esm't. (by Sep. inst.)
15'
HIGHLAND
Temp.
Const.
5
129.92
Install ~~139.36~~ L.F.
8" Pipe
Install 2-4" Stubs
Install 12 L.F. 4" Pipe (SW)
See detail sht. no. 8
Garage
House
W/Basement
F.F. 1373.24

℄ "V" Ext., Sta. 0+45.50, 3.00' Rt. =
℄ "T" Ext., Sta. 29+72.00, 5.00' Lt.

℄ "T" Sta. 28+32.87
12.5' Left

SCALE:
0 20 40
PLAN: LAT. & LONG.
PROFILE: HORIZ. SAME AS ABOVE
VERT.

RECORD DRAWING
MDK PROJ. ENG. 7/12/97 DATE
RES. ENG. DATE

BM #0 - Railroad Spike in the west face of a Utility Pole, 25' east of centerline Richfield and 310' north of centerline Pawnee Rd. Elev. = 1364.96 (MSL)

BASELINE STATION AND OFFSETS FOR MANHOLES AND SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

ALL PIPE INSTALLED IS PVC PIPE.

1390
1380
1370
1360
1350
1340
1330
1320
1310

24-3
Top Elev. = ~~1325.99~~ 1325.82

24A-1
Top Elev. = 1360.37 .81

Existing Ground

E IN = 1353.~~02~~ .07
from 8" pipe (E)

E IN = 1356.~~76~~ .71
from ~~1~~ 4" Stubs (NW, ~~SW~~)

E IN = 1356.64
from 1-4" Stub (SW)

E OUT = 1352.~~82~~ .77
E IN = ~~1355.00~~ 1354.96

129.92
~~139.36~~ L.F. 8" Pipe
@ 1.00%

E = 1356.~~89~~ .29

0+00 1+00

PLATE 1 PLAN PROFILE O. P. R. & R. E. STANDARD

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER
LATERAL NO. 24A
SANITARY SEWER LATERALS
GREENWICH HEIGHTS LATERAL SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-92238
Date April 1995
Designed by RRY, MDK
Drawn by TLS
Sht. 5/A of 5/

RECORD DRAWING

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

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
BLUE TOPS
STRUCTURE NOTATIONS CHKD.
BY
DATE

526448

MAIN 6A – SPRING CREEK INTERCEPTOR SEWER — SEWER SERVICE TABLE

NO.	TYPE	LOCATION				FOR INFORMATION ONLY		RECORD INFORMATION (TO BE COMPLETED BY PROJECT INSPECTOR)		NO.
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	APPROXIMATE LENGTH 4" PIPE HORIZONTAL	DISTANCE FROM NEAREST MANHOLE UPSTREAM	DISTANCE FROM NEAREST MANHOLE DOWNSTREAM	
1	15 "x 4"	8			15+14			195' FROM MH M6A-4		1
2	15 "x 4"	27			21+28			70' FROM MH M6A-7		2
3	15 "x 4"	27			22+53			199' FROM MH M6A-7		3
4	15 "x 4"	26			23+42			20' FROM MH M6A-8		4
5	15 "x 4"	25			24+73			151' FROM MH M6A-8		5
6	15 "x 4"	24			25+97			275' FROM MH M6A-8		6
7	15 "x 4"				31+70			30' FROM MH M6A-11	(DeLrose Church)	7
8	15 "x 4"				43+10			68' FROM MH M6A-15		8
	SLOANS ADDITION									
9	8" x 4"	23		LAT. 1	1+27	2'		127' FROM MH M6A-9		9
10	8" x 4"	22		LAT. 1	2+38	2'		238' FROM MH M6A-9		10
11	8" x 4"	21		LAT. 1	3+57	2'		38' FROM MH 1-1		11
12	8" x 4"	20		LAT. 1	4+92	2'		173' FROM MH 1-1		12
13	8" x 4"	9		LAT. 2	0+86	2'–3'		86' FROM MH M6A-5		13
14	8" x 4"	7		LAT. 2	2+04	2'–3'		204' FROM MH M6A-5		14
15	8" x 4"	10		LAT. 2	2+12	2'–3'		212' FROM MH M6A-5		15
16	8" x 4"	6		LAT. 2	2+72	2'–3'		272' FROM MH M6A-5		16
17	8" x 4"	5		LAT. 2	3+32	2'–3'		332' FROM MH M6A-5		17
18	8" x 4"	11		LAT. 2	3+54	2'–3'		5.5' FROM MH 2-1		18
19	8" x 4"	12		LAT. 2	4+50	2'–3'		101.5' FROM MH 2-1		19
20	8" x 4"	4		LAT. 2	4+65	2'–3'		116.5' FROM MH 2-1		20
21	8" x 4"	13		LAT. 2	5+08	2'–3'		159.5' FROM MH 2-1		21
22	8" x 4"	3		LAT. 2	5+52	2'–3'		203.5' FROM MH 2-1		22
23	8" x 4"	14		LAT. 2	7+51			73' FROM MH 2-2		23
24	8" x 4"	2		LAT. 2	7+32			54' FROM MH 2-2		24
25	8" x 4"	15		LAT. 2	8+79	2'–3'		201' FROM MH 2-2		25
26	8" x 4"	1		LAT. 2	9+08	2'–3'		231' FROM MH 2-2		26
27	8" x 4"	16		LAT. 2	9+72	2'–3'		295' FROM MH 2-2		27
28	8" x 4"	17		LAT. 2	10+54	2'–3'		60' FROM MH 2-3		28
29	8" x 4"	11		LAT. 2	10+00	2'–3'		18' FROM MH 2-3		29
30	8" x 4"	11		LAT. 2	10+42	2'–3'		72' FROM MH 2-3		30
	GREENWICH HEIGHTS									
31	10" x 4"	2		M6A	0+70			56' FROM MH M6A-19		31
32	10" x 4"	2		M6A	3+92				214' FROM MH M6A-21	32
33	10" x 4"	3		M6A	4+48				158' FROM MH M6A-21	33
34	10" x 4"	48		M6A	7+36.5			145.5' FM MH M6A-21		34
35	10" x 4"	46		M6A	7+38			147' FROM MH M6A-21		35
36	10" x 4"	47		M6A	8+68			277' FROM MH M6A-21		36
37	10" x 4"	38		M6A	10+34			104' FROM MH M6A-22		37
38	10" x 4"	37		M6A	11+20				181' FROM MH M6A-23	38
39	10" x 4"	39		M6A	11+26				175' FROM MH M6A-23	39
40	10" x 4"	35		M6A	14+64				127' FROM MH M6A-24	40
41	10" x 4"	25		M6A	18+02			59' FROM MH M6A-25		41
42	10" x 4"	22		M6A	20+62			58 'FROM MH M6A-26		42
43	10" x 4"	1		M6A	27+47			58' FROM MH M6A-29		43
44	10" x 4"	2		M6A	28+35				152' FROM MH M6A-30	44
45	8" x 4"	4		LAT. 2	2+30	3'		27' FROM MH 2-3		45
46	8" x 4"	5		LAT. 2	4+17	2'		22' FROM MH 2-2		46
47	8" x 4"	6		LAT. 2	5+84	2'			118' FROM MH 2-2	47
48	8" x 4"	7		LAT. 2	7+24	2'		66' FROM MH 2-1		48
49	8" x 4"	8		LAT. 2	10+26	2'			121' FROM MH 2-1	49
50	8" x 4"	45		LAT. 4	2+24	3'			97' FROM MH 4-1	50
51	8" x 4"	40		LAT. 4	2+53	3'			68' FROM MH 4-1	51
52	8" x 4"	44		LAT. 4	3+38	3'		17 'FROM MH 4-1		52
53	8" x 4"	41		LAT. 4	4+14	3'		93' FROM MH 4-1		53
54	8" x 4"	44		LAT. 4	4+57	3'		106' FROM MH 4-1		54
55	8" x 4"	43		LAT. 4	5+82	9'			70' FROM MH 4-2	55
56	8" x 4"	10		LAT. 4	9+90	2'			30' FROM MH 4-4	56
57	8" x 4"	42		LAT. 5	1+83	2'			8' FROM MH 5-1	57
58	8" x 4"	36		LAT. 6	0+82	2'			54' FROM MH 6-1	58
59	8" x 4"	34		LAT. 7	1+32	3'		132' FROM MH M6A-24		59
60	8" x 4"	33		LAT. 7	2+15	3'			105' FROM MH 7-1	60
61	8" x 4"	33		LAT. 7	2+75.5	3'			44.5' FROM MH 7-1	61
62	8" x 4"	29		LAT. 7	3+73	3'		53' FROM MH 7-1		62
63	8" x 4"	32		LAT. 7	3+87	3'		67' FROM MH 7-1		63
64	8" x 4"	32		LAT. 7	4+79	2'			172' FROM MH 7-2	64
65	8" x 4"	30		LAT. 7	5+91	2'			60' FROM MH 7-2	65
66	8" x 4"	31		LAT. 7	7+46	2'			67' FROM MH 7-3	66
67	8" x 4"	15		LAT. 8	3+10	2'			60' FROM MH 8-2	67
68	8" x 4"	26		LAT. 9	1+40	2'			5' FROM MH 9-1	68
69	8" x 4"	20		LAT.10	3+45	3'		110' FROM MH 10-1		69
70	8" x 4"	19		LAT.10	5+39	2'			20' FROM MH 10-2	70
71	8" x 4"	3		LAT.11	1+88	3'			148' FROM MH 11-1	71
72	8" x 4"	4		LAT.11	4+04	3'		67' FROM MH 11-1		72
73	8" x 4"	6		LAT.11	7+66	3'		106' FROM MH 11-2		72
74	8" x 4"	8		LAT.11	9+54	2'			35' FROM MH 11-3	74

GREENWICH HEIGHTS — SEWER SERVICE TABLE

NO.	TYPE	LOCATION				FOR INFORMATION ONLY		RECORD INFORMATION (TO BE COMPLETED BY PROJECT INSPECTOR)		NO.
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	APPROXIMATE LENGTH 4" PIPE HORIZONTAL	DISTANCE FROM NEAREST MANHOLE UPSTREAM	DISTANCE FROM NEAREST MANHOLE DOWNSTREAM	
75	8 "x 4"	1		LAT.13	5+57	8'		80' FROM MH 13-2		75
76	8 "x 4"			LAT.13	9+61	8'		92' FROM MH 13-3		76
77	8 "x 4"	23		LAT.13	16+92	10'			73' FROM MH 13-6	77
78	8 "x 4"	22		LAT.13	18+12	10'		47' FROM MH 13-6		78
79	8 "x 4"	21		LAT.13	19+83	10'			175' FROM MH 13-7	79
80	8 "x 4"	18		LAT.13	23+68	10'			66' FROM MH 13-8	80
81	8 "x 4"	17		LAT.13	28+31		2'	121' FROM MH 13-9		81
82	8 "x 4"	16		LAT.13	31+54.5		2'	66.5' FROM MH 13-10		82
83	8 "x 4"	15		LAT.13	32+71		2'	183' FROM MH 13-10		83
84	8 "x 4"	14		LAT.13	33+76		2'		79' FROM MH 13-11	84
85	8 "x 4"	13		LAT.13	35+96		2'	101' FROM MH 13-11		85
86	8 "x 4"	12		LAT.13	37+43		2'		99' FROM MH 13-12	86
87	8 "x 4"	11		LAT.13	39+20		2'	78' FROM MH 13-12		87
88	8 "x 4"	10		LAT.13	40+32		2'	190' FROM MH 13-12		88
89	8 "x 4"	9		LAT.13	41+52		2'		67' FROM MH 13-13	89
90	8 "x 4"	8		LAT.13	43+58		2'	139' FROM MH 13-13		90
91	8 "x 4"	7		LAT.13	44+71		2'		125' FROM MH 13-14	91
92	8 "x 4"	6		LAT.13	46+22		2'	26' FROM MH 13-14		92
93	8 "x 4"	5		LAT.13	47+06	2'		110' FROM MH 13-14		93
94	8 "x 4"	4		LAT.13	48+76.5	2'			97' FROM MH 13-15	94
95	8 "x 4"	3		LAT.13	49+87	3'		14' FROM MH 13-15		95
96	8 "x 4"	1		LAT.13	52+20	3'			110' FROM MH 13-16	96
97	8 "x 4"	2	C	LAT.13	54+77			176' FROM MH 13-16		97
98	8 "x 4"	5	1	LAT.13	57+35			74' FROM MH 13-18		98
99	8 "x 4"	1	1	LAT.13	57+73			111' FROM MH 13-18		99
100	8 "x 4"	2	1	LAT.13	59+17			257' FROM MH 13-18		100
101	8 "x 4"	6	1	LAT.13	59+38			277' FROM MH 13-18		101
102	8 "x 4"	3	1	LAT.13	60+77			110' FROM MH 13-19		102
103	8 "x 4"	7	1	LAT.13	60+60			94' FROM MH 13-19		103
104	8 "x 4"	4	1	LAT.13	62+02			234' FROM MH 13-19		104
105	8 "x 4"	8	1	LAT.13	62+07			240' FROM MH 13-19		105
106	8 "x 4"	1		LAT.14	E				57' FROM MH 14-2	106
107	8 "x 4"	2		LAT.14	E				145' FROM MH 14-3	107
108	8 "x 4"	2		LAT.14	N			108' FROM MH 14-3		108
109	8 "x 4"	2		LAT.14	N			100' FROM MH 14-4		109
110	8 "x 4"	3		LAT.14	N			197' FROM MH 14-4		110
111	8 "x 4"	8		LAT.14	N			182' FROM MH 14-7		111
112	8 "x 4"	1		LAT.14	S				105' FROM MH 14-8	112
113	8 "x 4"	7		LAT.14	N				4' FROM MH 14-8	113
114	8 "x 4"	2		LAT.14	E			18' FROM MH 14-8		114
115	8 "x 4"	2&3		LAT.14	W			92' FROM MH 14-10		115
116	8 "x 4"	3&4		LAT.14	W				100' FROM MH 14-11	116
117	8 "x 4"	5		LAT.14	W			66' FROM MH 14-11		117
118	8 "x 4"	6		LAT.14	W				122' FROM MH 14-12	118
119	8 "x 4"	7		LAT.14	W			19' FROM MH 14-12		119
120	8 "x 4"	2		LAT.14	E			178' FROM MH 14-12		120
121	8 "x 4"	8		LAT.14	W			218' FROM MH 14-12		121
122	8 "x 4"	1		LAT.14	W			85' FROM MH 14-15		122
123	8 "x 4"	2		LAT.14	W				15.8' FROM MH 14-16	123
124	8 "x 4"	1		LAT.14	W				65' FROM MH 14-16	124
125	8 "x 4"	2		LAT.14	E				49' FROM MH 14-16	125
126	8 "x 4"	3		LAT.14	W			99' FROM MH 14-16		126
127	8 "x 4"	3		LAT.14	E			102' FROM MH 14-16		127
128	8 "x 4"	4		LAT.14	E				55' FROM MH 14-17	128
129	8 "x 4"	4		LAT.14	W				43' FROM MH 14-17	129
130	8 "x 4"	10		LAT.14	E			60' FROM MH 14-17		130
131	8 "x 4"	5		LAT.14	W			145' FROM MH 14-17		131
132	8 "x 4"	9		LAT.14	E			177' FROM MH 14-17		132
133	8 "x 4"	8		LAT.14	E				42' FROM MH 14-18	133
134	8 "x 4"	6		LAT.14	W				4' FROM MH 14-18	134
135	8 "x 4"			LAT.15						135
136	8 "x 4"			LAT.15						136
137	8 "x 4"			LAT.15						137
138	8 "x 4"			LAT.15						138
139	8 "x 4"	6		LAT.15	E			96' FROM MH 15-1		139
140	8 "x 4"	7		LAT.15	W			250' FROM MH 15-1		140
141	8 "x 4"	7		LAT.15	E			266' FROM MH 15-1		141
142	8 "x 4"	8		LAT.15	E			58' FROM MH 15-2		142
143	8 "x 4"	8		LAT.15	W			109' FROM MH 15-2		143
144	8 "x 4"	9		LAT.15					30' FROM MH 13-5	144
145	8 "x 4"	9		LAT.15	W				4' FROM MH 15-3	145
146	8 "x 4"	10		LAT.15	E			69' FROM MH 15-3		146
147	8 "x 4"	11		LAT.15	W				88' FROM MH 15-4	147
148	8 "x 4"	11		LAT.15	E				104' FROM MH 15-4	148
149	8 "x 4"	12		LAT.15	E			47' FROM MH 15-4		149
150	8 "x 4"	12		LAT.15	E			121' FROM MH 15-4		150
151	8 "x 4"	12		LAT.15	W			133' FROM MH 15-4		151
152	8 "x 4"	14		LAT.15	E			259' FROM MH 15-4		152
153	8 "x 4"	9		LAT.15	E				96' FROM MH 15-3	153
154	8 "x 4"	9		LAT.15	W				100' FROM MH 15-3	154

GREENWICH HEIGHTS — SEWER SERVICE TABLE

NO.	TYPE	LOCATION				FOR INFORMATION ONLY		RECORD INFORMATION (TO BE COMPLETED BY PROJECT INSPECTOR)		NO.
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	APPROXIMATE LENGTH 4" PIPE HORIZONTAL	DISTANCE FROM NEAREST MANHOLE UPSTREAM	DISTANCE FROM NEAREST MANHOLE DOWNSTREAM	
155	8" x 4"	4		LAT.18	E				202' FROM MH 18-1	155
156	8" x 4"	5		LAT.18	W				200' FROM MH 18-1	156
157	8" x 4"	5		LAT.18	W				107' FROM MH 18-1	157
158	8" x 4"	4		LAT.18	E				102' FROM MH 18-1	158
159	8" x 4"	5		LAT.18	W			8' FROM MH 18-1		159
160	8" x 4"	4		LAT.18	E			68' FROM MH 18-1		160
161	8" x 4"	4		LAT.18	E				97' FROM MH 18-2	161
162	8" x 4"	5		LAT.18	W				95' FROM MH 18-2	162
163	8" x 4"	5		LAT.18	W				27' FROM MH 18-2	163
164	8" x 4"	4		LAT.18	E				25' FROM MH 18-2	164
165	8" x 4"	5		LAT.18	W				82' FROM MH 18-3	165
166	8" x 4"	4		LAT.18	E				80' FROM MH 18-3	166
167	8" x 4"	4		LAT.20	0+67	7'		67' FROM MH 13-3		167
168	8" x 4"	4		LAT.20	1+55	7'		155' FROM MH 13-3		168
169	8" x 4"	4		LAT.20	7+27	4'		76' FROM MH 20-2		169
170	8" x 4"	4		LAT.20	10+02	2'			3' FROM MH 20-4	170
171	8" x 4"	24		LAT.22	1+57	8'		155' FROM MH 10-5		171
172	8" x 4"	6		LAT.22	3+38	8'			27' FROM MH 22-1	172
173	8" x 4"	25		LAT.22	3+53	8'			12' FROM MH 22-1	173
174	8" x 4"	6		LAT.22	6+10	8'			84' FROM MH 22-2	174
175	8" x 4"	6		LAT.22	12+70	6'		100' FROM MH 22-5		175
176	8" x 4"			LAT.22	18+55			150' FROM MH 22-7		176
177	8" x 4"			LAT.22	19+97	2'			25' FROM MH 22-8	177
178	8" x 4"			LAT.22	21+54			132' FROM MH 22-8		178
179	8" x 4"			LAT.22	21+93.5	2'			146' FROM MH 23-9	179
180	8" x 4"	1		LAT.22	23+27	2'			12' FROM MH 23-9	180
181	8" x 4"	1		LAT.22	24+32	2'		93' FROM MH 20-9		181
182	8" x 4"	10	A	LAT.23				94' FROM MH 22-6		182
183	8" x 4"	9	A	LAT.23					100' FROM MH 23-1	183
184	8" x 4"	11	A	LAT.23					114' FROM MH 23-1	184
185	8" x 4"	11	B	LAT.23				8' FROM MH 23-2		185
186	8" x 4"	13	B	LAT.23				60' FROM MH 23-2		186
187	8" x 4"	16	B	LAT.23					4' FROM MH 23-4	187
188	8" x 4"	14	B	LAT.23					82' FROM MH 23-4	188
189	8" x 4"	11	B	LAT.23					75' FROM MH 23-2	189
190	8" x 4"	17	B	LAT.24	E			150' FROM MH 23-3		190
191	8" x 4"	18	B	LAT.24	E				51.5' FROM MH 24-1	191
192	8" x 4"	9	B	LAT.24	W				31' FROM MH 24-1	192
193	8" x 4"	19	B	LAT.24	E			70' FROM MH 24-1		193
194	8" x 4"	8	B	LAT.24	W			90' FROM MH 24-1		194
195	8" x 4"	20	B	LAT.24	E			182' FROM MH 24-1		195
196	8" x 4"	7	B	LAT.24	W			219' FROM MH 24-1		196
197	8" x 4"	6	B	LAT.24	W			37' FROM MH 24-2		197
198	8" x 4"	21	B	LAT.24	E			45' FROM MH 24-2		198
199	8" x 4"	3	B	LAT.24	S			4' FROM MH 24-3		199
200	8" x 4"			LAT.24	N					200
201	8" x 4"	19		LAT.25	1+87.5	8'			111' FROM MH 25-1	201
202	8" x 4"	4		LAT.25	4+39	8'		82' FROM MH 25-2		202
203	8" x 4"	3		LAT.25	4+78	8'		121' FROM MH 25-2		203
204	8" x 4"	2		LAT.25	6+98	6'		80' FROM MH 25-3		204
205	8" x 4"	6		LAT.25	8+63	2'			4' FROM MH 25-4	205
206	8" x 4"	3		LAT.26	2+21	4'			109' FROM MH 26-1	206
207	8" x 4"	5		LAT.26	3+70	4'		40' FROM MH 26-1		207
208	8" x 4"	2		LAT.26	4+68	4'			112' FROM MH 26-2	208
209	8" x 4"	5	2	LAT.27	E			94' FROM MH 27-2		209
210	8" x 4"	1	2	LAT.27	W			108' FROM MH 27-2		210
211	8" x 4"	6		LAT.27	E			246' FROM MH 27-2		211
212	8" x 4"	2		LAT.27	W			245' FROM MH 27-2		212
213	8" x 4"	7		LAT.27	E			31' FROM MH 27-3		213
214	8" x 4"	3		LAT.27	W			10' FROM MH 27-3		214
215	8" x 4"	8		LAT.27	E			191' FROM MH 27-3		
216	8" x 4"	4	2	LAT.27	W			134' FROM MH 27-3		
217	8" x 4"	1	3	LAT.27	W			326' FROM MH 27-3		
218	8" x 4"	2		LAT.27	W			89' FROM MH 27-4		
219	8" x 4"	3		LAT.27	W			9' FROM MH 27-5		
220	8" x 4"	4		LAT.27	W			234' FROM MH 27-5		

RECORD DRAWING
MDK PROJ. ENG. 7/12/97 DATE
RES. ENG. DATE

No.	Revision

SEDGWICK COUNTY BUREAU OF PUBL
DAVID C. SPEARS, P.E. DIRECTOR, OF PUBLIC SERVI

SEWER SERVICE SCH

SANITARY SEWER LATEF
SPRING CREEK INTERCEPTOR, SLOANS, A

PROFESSIONAL ENGINEERING
ENGINEERS
WICHITA, KANSA

Designed by MDK | Job No. 34-9
Drawn by | Date SEPTEMB

USWR: RFU UPDT: JLD SCALE: 1"=100'
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