FILM 300 PAGE 161

EASEMENT FOR SANITARY SEWER

MICROFILMED OF RECORD

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Richard G. and Sandra Jo Hayden, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar and No Cents, $1.00**** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

4MC-004 Mt 006

The West 10 feet of Lot 8, East Lynne Addition to Sedgwick County, Kansas.

FILM 297 PAGE 254

EASEMENT FOR SANITARY SEWER

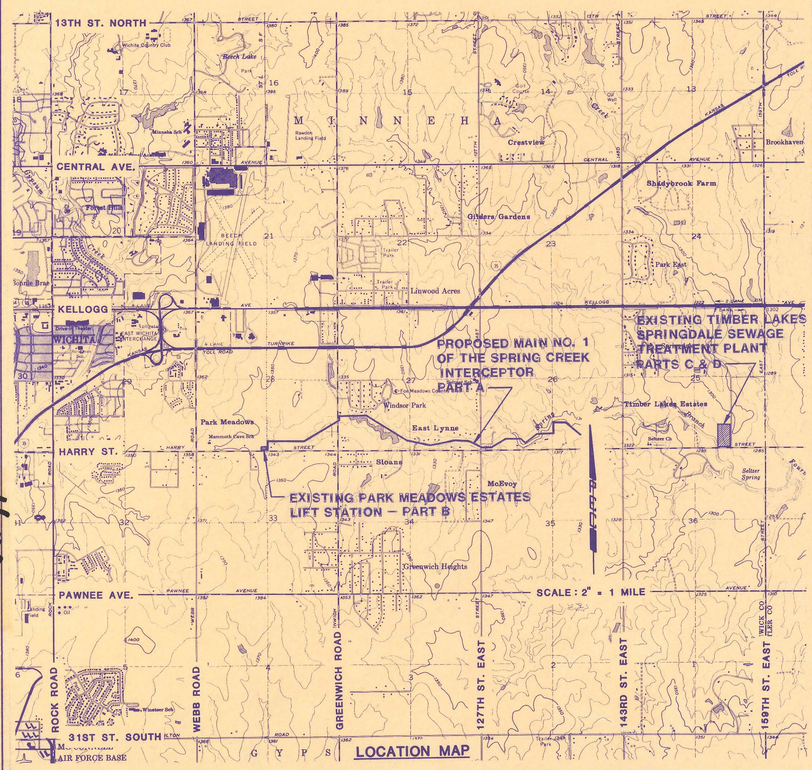
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Margaret M. Smith, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of ONE DOLLAR, $1.00 and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

4MC-004 mt 006

The East 10 feet of Lot 7, East Lynne Addition to Sedgwick County, Kansas.



4MC-004

FOUR MILE CREEK

4MC-004

CONSTRUCTION PLANS FOR:

PART A:
MAIN NO. 1 OF THE SPRING CREEK SANITARY SEWER INTERCEPTOR IN THE SPRING CREEK JOINT SEWER DISTRICT

PART B:
DEMOLITION OF THE PARK MEADOW ESTATES WASTEWATER FACILITIES

PART C:
TIMBER LAKES-SPRINGDALE LIFT STATION REPLACEMENT

PART D:
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT MODIFICATIONS

PROJECT NO. 34-85254-1-024

FEBRUARY, 1986

AS CONSTRUCTED
PROJ. ENG. DRA DATE 3-31-88
RES. ENG. MDC DATE 3-31-88

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP
SHEET NO. 3	BASELINE KEY MAP
SHEET NO. 4	BASELINE CONTROL DATA AND GENERAL NOTES
SHEET NO. 5-7	MANHOLE DETAILS
SHEET NO. 8	SPECIAL REINFORCED CONCRETE MANHOLES
SHEET NO. 9	MISCELLANEOUS DETAILS
SHEET NO. 10	PARK MEADOW ESTATES WASTEWATER FACILITIES DEMOLITION
SHEET NO. 11	NOT PART OF THIS PROJECT
SHEET NO. 12-27	PLAN / PROFILE
SHEET NO. 28	SITE PLAN - MODIFICATION TO EXISTING LIFT STATION
SHEET NO. 29	MISCELLANEOUS DETAILS - GENERAL NOTES
SHEET NO. 30	SELF PRIMING LIFT STATION DETAILS
SHEET NO. 31	VACUUM PRIMING LIFT STATION DETAILS
SHEET NO. 32	SITE PLAN
SHEET NO. 33	DETAILS
SHEET NO. 34	EQUIPMENT REMOVAL PLAN - EXISTING LIFT STATION
SHEET NO. 35	ELECTRICAL SITE PLAN
SHEET NO. 36	ELECTRICAL - LIFT STATION FLOOR PLAN

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MANNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

BRUCE D. REMSBERG LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS
Bernard A. Hentzen 4-30-86
CHAIRMAN DATE

APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
David C. Spence 4/29/86
DIRECTOR / COUNTY ENGINEER DATE

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK
Norma Voight 4/30/86
COUNTY CLERK DATE

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

4MC-004

INTERCEPTOR SCHEDULE

MAIN NO.	STATION TO STATION	MANHOLES	SHEET NO.
MAIN NO. 1	00+00.00 to 10+31.03	Existing MH, 1 thru 3	12
MAIN NO. 1	10+31.03 to 20+25.77	3 thru 7	13
MAIN NO. 1	20+25.77 to 29+38.84	7 thru 10	14
MAIN NO. 1	29+38.84 to 39+18.91	10 thru 13	15
MAIN NO. 1	39+18.91 to 48+77.95	13 thru 15	16
MAIN NO. 1	48+77.95 to 57+32.97	15 thru 20	17
MAIN NO. 1	57+32.97 to 66+24.15	20 thru 23	18
MAIN NO. 1	66+24.15 to 76+94.78	23 thru 28	19
MAIN NO. 1	76+94.78 to 84+41.48	28 thru 30	20
MAIN NO. 1	84+41.48 to 93+76.83	30 thru 33	21
MAIN NO. 1	93+76.83 to 104+58.79	33 thru 37	22
MAIN NO. 1	104+58.79 to 113+05.97	37 thru 41	23
MAIN NO. 1	113+05.97 to 122+47.03	41 thru 43	24
MAIN NO. 1	122+47.03 to 130+92.92	43 thru 45	25
MAIN NO. 1	130+92.92 to 140+38.18	45 thru 47	26
MAIN NO. 1	140+38.18 to 143+69.27	47 and Existing MH	27

KELLOGG (U.S. 54)

KANSAS TURNPIKE

EXISTING MH

MAIN NO. 7 (FUTURE)

MAIN NO. 7 (FUTURE)

VANSOR PARK LATERAL SEWER DISTRICT (PROJECT NO. 34-85SF-5-02J)

MAIN NO. 5 A (FUTURE)

PARK MEADOW ESTATES WASTEWATER FACILITY

MAIN NO. 1

EXISTING PARK MEADOW ESTATES LATERAL SEWER DISTRICT

EXISTING MH

MAIN NO. 1

DEMOLISH PARK MEADOW ESTATES LIFT STATION. (SEE SHEET NO. 10)

HARRY STREET

SLOANE LATERAL SEWER DISTRICT (PROJECT NO. 34-85SF-5-02K)

MAIN NO. 6 (FUTURE)

MAIN NO. 1

MAIN NO. 5 (FUTURE)

MAIN NO. 4 (FUTURE)

GREENWICH ROAD

MAIN NO. 6 A (FUTURE)

FUTURE MH

GREENWICH HEIGHTS LATERAL SEWER DISTRICT (PROJECT NO. 34-85SF-5-02L)

MAIN NO. 4 (FUTURE)

NEVOY LATERAL SEWER DISTRICT (PROJECT NO. 34-85SF-5-02M)

127th ST. EAST

Interceptor A

MAIN NO. 1

EXISTING MH

EXISTING SPRINGHOLLOW LATERAL SEWER DISTRICT

135th ST. EAST

1"=500'

LEGEND

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

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

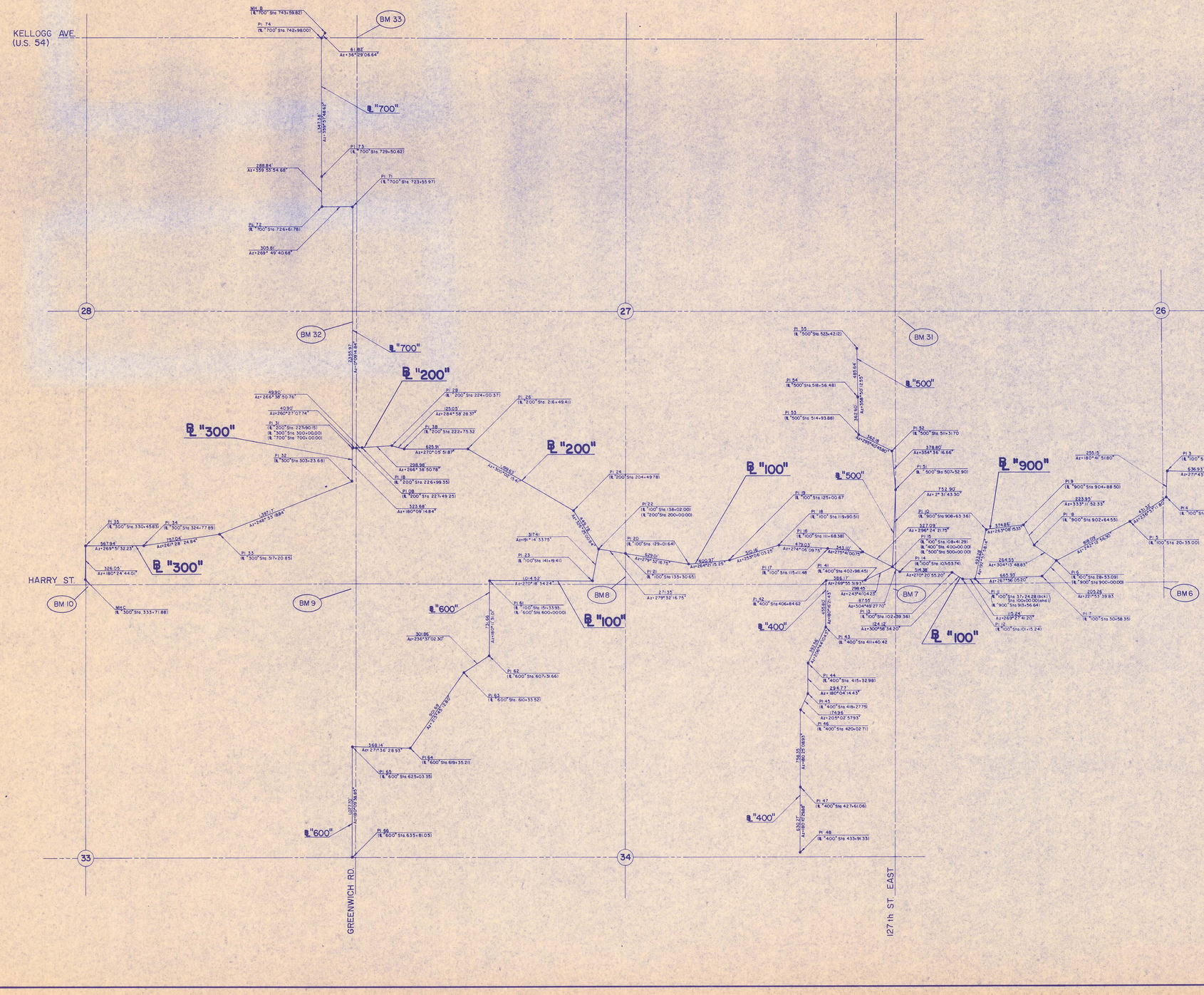
KEY MAP

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

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

Designed by RDM, LM, RFJ | Job No. 34-85254-1 | Sht. 2 of 36
Drawn by SM, SC | Date Feb. 1986

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



BENCH MARK LIST

BM 6 60d STEP IN UTILITY POLE, 50' SOUTH OF SOUTH 1/4 CORNER, SECTION 26, T27S, R2E.
ELEV. = 1318.80 (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)

℄'s "400", "500", "600", AND "700" ARE FOR FUTURE MAINS AND ARE NOT REQUIRED FOR CONSTRUCTION OF MAIN I.

MICHAEL D. SCHAMBER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARKEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

AS CONSTRUCTED PART "A"
PROJ. ENG. DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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 RDM, LM, RFJ | Job No. 34-85254-1 | Sht. 3 of 36
Drawn by TWC | Date Feb. 1986

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
95.63° 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 7683.9006 E
LEADED TACK IN WESTBOUND LANE KELLOGG AVE.
64.45° NNE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
65.21° 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 7669.7517 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 NORTHEAST 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 - 7662.8631 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° NNW, 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
64.98° SW, NAIL AND SHINER IN EAST FACE 24" LOCUST
67.68° 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 - 10,631.7645 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 NORTHWEST FACE 16" 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 31, 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.
61.25° 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.
61.81° 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 38 - 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 28 - 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 K&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
59.97° W, 1/2" REBAR IN OPEN FIELD.

MH C - 10,367.2763 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
5.17° NNE, 3/4" IRON PIPE AT SOUTHEAST CORNER LOT 2, MCEVOY ADD.
69.05° WNW, NAIL IN NORTH FACE UTILITY POLE
63.64° NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE

PI 45 - 9,250.9270 N 14,761.3184 E
1/2" REBAR
72.34° NE, NAIL AND SHINER IN SOUTH FACE 18" WILLOW
37.81° S, NAIL AND SHINER IN WEST FACE UTILITY POLE
31.45° NW, NAIL AND SHINER IN SOUTHWEST FACE 10" ELM

PI 46 - 9,002.4233 N 14,687.2403 E
1/2" REBAR
50.32° E, 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 - 8,334.1036 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 BOTTLECAP
104.13° N, 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 15,248.3400 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 15,257.9932
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 15,248.1265
97.27° NE, CHISELED "+" IN SOUTHWEST CORNER STAIR FOOTING
29.61° ESE, NAIL AND SHINER IN NORTH FACE 24" ELM
50.77 WNW, CENTER SOUTHWEST POST TO BACKSTOP

PI 61 - 10,354.2173 N 11,630.3117 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 - 9,662.5614 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 - 8,240.6530 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 - 7,662.3613 N 10,278.2051 E
TACKED NAIL
64.83° SW, 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
79.24° E, NAIL AND SHINER IN SOUTH FACE UTILITY POLE
56.11° SE, NAIL AND SHINER IN CENTERLINE GREENWICH ROAD
15.13° NW, 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° NNW, NAIL AND BOTTLECAP IN TOP GUARD POST

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

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION ON 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 (MUTCD) TO ENSURE SAFETY AS DIRECTED IN ARTICLE 11 OF THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

2. AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: NORTHWEST CENTRAL PIPELINE CORP., GAS SERVICE COMPANY, K.G.&E., THE WICHITA WATER DEPARTMENT, AND AIR CAPITAL CABLEVISION.

   THE CONTRACTOR ALSO SHALL CALL THE UTILITY LISTED BELOW AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS) TO REQUEST LOCATION OF EXISTING UTILITIES WITHIN THE PROJECT AREA.

   CONTINENTAL PIPELINE CO.
   8001 OAK KNOLL
   WICHITA, KS 67207
   (316) 681-2081
   MR. RON GREEN

3. THE CONTRACTOR MUST ALSO NOTIFY THE TELEPHONE COMPANY AT (316) 571-2115 48 HOURS PRIOR TO BEGINNING EXCAVATION AND REQUEST THAT ANY LINES WITHIN THE PROJECT AREA BE FLAGGED.

4. THE BURIED UTILITIES AS LOCATED 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.

5. EXCESS EXCAVATED MATERIAL AND OTHER DEBRIS, INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND FENCES REMOVED SHALL BE WASTED ON SITES TO BE PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

6. 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 NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.

7. WHERE REMOVAL OF EXISTING FENCES PARALLEL TO THE CONSTRUCTION IS DEEMED NECESSARY BY THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE REMOVAL WITH THE ENGINEER. REMOVAL AND RESETTING OF FENCES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.

8. REMOVAL AND RESETTING OF FENCES, CULVERT PIPES, AND STRUCTURES AND RESTORATION OF ALL SIDEWALKS, MAIL BOXES, NEWSPAPER BOXES, SIGNS, DITCHES, SWALES, ROAD SHOULDERS, DRIVES, AND ENTRANCES TO THEIR ORIGINAL SLOPES, GRADES, AND AS SPECIFIED IN DIVISION 2 OF THE SPECIFICATIONS SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.

9. TOP ELEVATIONS FOR MANHOLES ARE APPROXIMATE ONLY. MANHOLE TOPS SHALL BE SET AT GRADE AS DIRECTED BY THE ENGINEER. MANHOLES PLACED IN PAVED AREAS SHALL BE SET TO MATCH THE REPLACED PAVEMENT SURFACE.

10. ALL TRENCHING AND BACKFILLING IS TYPE I UNLESS NOTED OTHERWISE ON THE PLANS.

11. ALL ELEVATIONS GIVEN IN THE PLANS ARE BASED ON USGS DATUM.

12. WHERE THE CONNECTION IS TO BE MADE AT STA. 0+00, THE CONTRACTOR SHALL VERIFY THE LOCATION AND FLOW LINE ELEVATION OF THE EXISTING 30" PLRCP STUB PRIOR TO BEGINNING CONSTRUCTION.

13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESET ALL PROPERTY CORNERS DISTURBED DURING CONSTRUCTION WHICH ARE NOTED ON THE PLANS AND ANY ADDITIONAL CORNERS FOUND DURING CONSTRUCTION. THE LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER USED TO RESET PROPERTY CORNERS MUST BE APPROVED BY THE ENGINEER.

   PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS SHOWN ON THE PLANS, 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 BY A LICENSED LAND SURVEYOR OR A LICENSED CIVIL ENGINEER CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.

   ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR "SITE CLEARING AND RESTORATION."

14. AT LEAST 7 DAYS PRIOR TO REMOVING ANY FENCES, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AFFECTED. UPON THE REQUEST OF THE PROPERTY OWNER AND IN A MANNER APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING, INCLUDING GATES AND ACCESS, SUITABLE FOR CONTAINING LIVESTOCK UNTIL COMPLETION OF ALL WORK IN THE AFFECTED AREA INCLUDING REPLACEMENT OR RESETTING OF ANY EXISTING FENCES REMOVED. PROVIDING TEMPORARY FENCING SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.

15. PRIVATE UTILITIES, SEPTIC TANK LATERAL LINES, LAWN SPRINKLING SYSTEMS AND OTHER PRIVATELY-OWNED UNDERGROUND IMPROVEMENTS ARE NOT INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ASCERTAIN THE EXISTENCE AND LOCATION OF SUCH PRIVATELY-OWNED UNDERGROUND IMPROVEMENTS. ANY UNDERGROUND IMPROVEMENTS DAMAGED BY THE CONTRACTOR, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION SEQUENCE NOTES

MAIN NO. 1 WASTEWATER FLOW IN THE EXISTING 18-INCH PARK MEADOW ESTATES SEWER LINE SHALL BE CONTINUOUS DURING CONSTRUCTION OF MAIN NO. 1 UP TO MANHOLE 47. CONSTRUCTION OF MAIN NO. 1 SHALL BE COMPLETE AND ACCEPTED BY THE ENGINEER FROM THE EXISTING MANHOLE IN THE SPRING HOLLOW ADDITION TO MANHOLE 47 BEFORE THE CONTRACTOR BEGINS CONSTRUCTION OF THE LAST SEGMENT OF MAIN NO. 1 (STA. 140+38 TO 143+69). UPON ACCEPTANCE OF MAIN NO. 1 UP TO MANHOLE 47, THE CONTRACTOR SHALL DIVERT THE WASTEWATER FLOW FROM PARK MEADOW ESTATES INTO THE NEWLY CONSTRUCTED MANHOLE 47 AND THEN COMPLETE THE CONSTRUCTION OF MAIN NO. 1 FROM MANHOLE 47 TO THE EXISTING MANHOLE SOUTHEAST OF THE EXISTING LIFT STATION.

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/OR SODDING SHALL BE SUBSIDIARY TO THE PRICE BID FOR "SITE CLEARING AND RESTORATION."

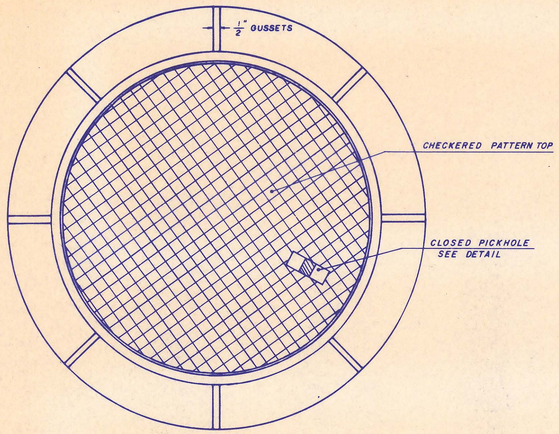
1. ROAD RIGHTS-OF-WAY AND OTHER PUBLICLY OWNED AREAS SHALL BE SEEDED AS DIRECTED BELOW UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

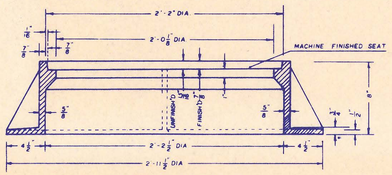
   APPLICATION RATES: (BASED ON USING 12-24-12 FERTILIZER).

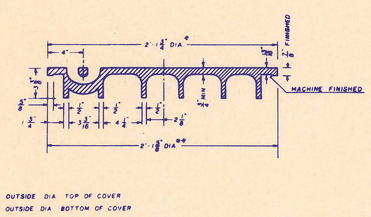
   1. SEED: K-31 FESCUE @ 8 LBS PER 1,000 SQUARE FEET
   2. MULCH: HAY: 90 LBS PER 1,000 S.F.
   3. FERTILIZER: USING 12-24-12 STRENGTH FERTILIZER, 8 LBS PER 1,000 SQUARE FEET OR 350 LBS PER ACRE. BLEND INTO TOP 3" OF SOIL.

2. 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.

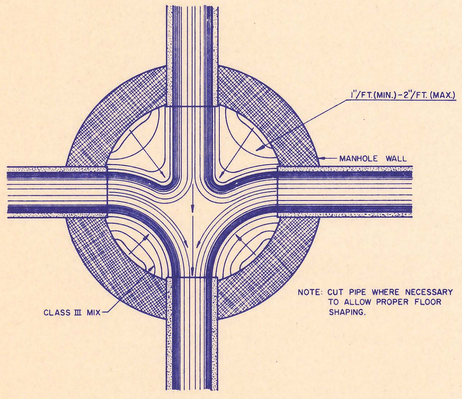
TYPE OF GRASS	PLANTING TIME	APPLICATION RATES SEED APPLICATION	FERTILIZER (12-24-12)
BLUEGRASS, (WINDSOR, KENTUCKY, ETC.)	FALL	3 LBS/1,000 S.F.	8 LBS/1,000 S.F.
TALL FESCUE (K-31)	SPRING OR FALL	8 LBS/1,000 S.F.	8 LBS/1,000 S.F.
BERMUDA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.
ZOYSIA	SPRING	SPRIGS OR SOD (SEE SPECIFICATIONS)	8 LBS/1,000 S.F.
BUFFALO GRASS	EARLY SPRING	1 1/2 LBS/1,000 S.F. (TREATED SEED)	4 LB/1,000 S.F.
*NATIVE GRASS	SPRING OR FALL (EARLY SPRING PREFERRED)	SEE NOTE (1) B





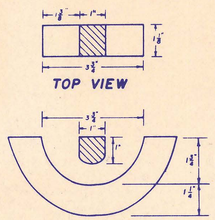


MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

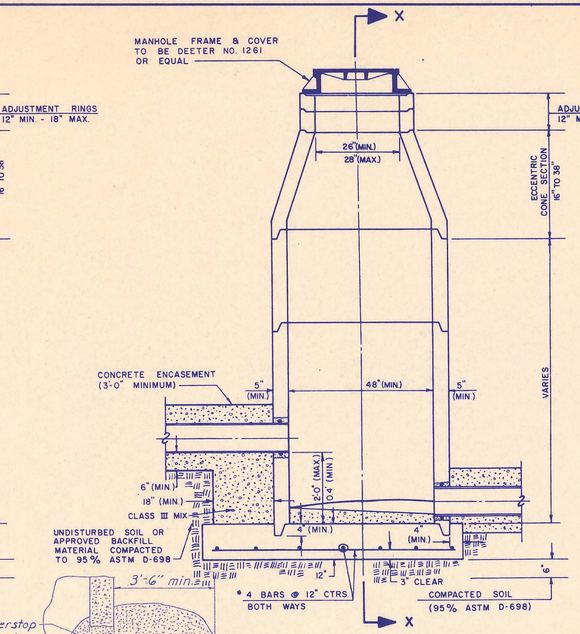


TYPICAL MANHOLE
FLOOR SHAPING

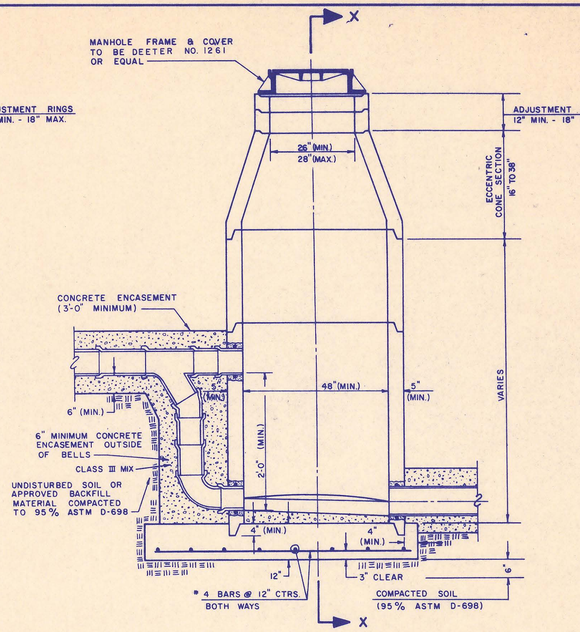
PICKHOLE DETAIL



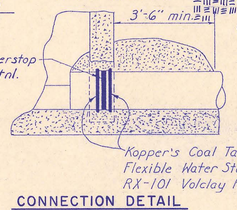
PRECAST
STANDARD MANHOLE
TYPE "A"



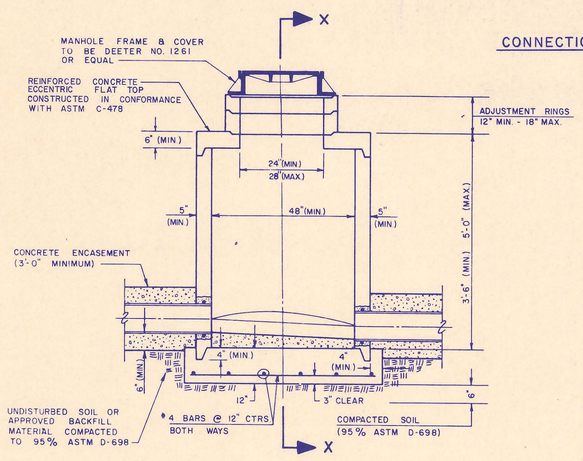
PRECAST
DROP MANHOLE
TYPE "B"



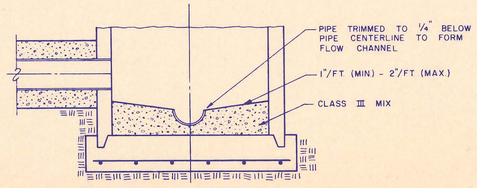
PRECAST
OUTSIDE DROP MANHOLE
TYPE "C"



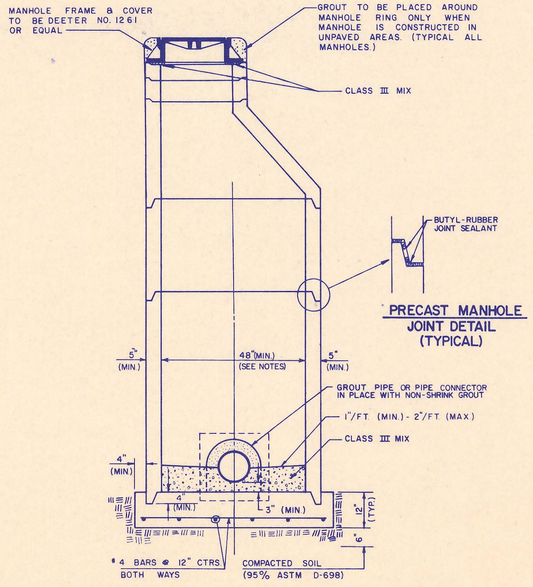
CONNECTION DETAIL



PRECAST
SHALLOW MANHOLE
TYPE "D"



SECTIONAL ELEVATION - INVERT



SECTION X
(TYPICAL)

PRECAST MANHOLE JOINT DETAIL
(TYPICAL)

PRECAST 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. 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 RIB COMPOSITE PIPE OR PVC PIPE IS USED. SEWER PIPE EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
4. PIPE PLUGS SHALL BE PROVIDED BY PIPE SUPPLIER.
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. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS.
8. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
9. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
10. MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5' INSIDE DIAMETER (MIN.).

MANHOLE FRAME AND COVER NOTES

1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 30.
2. THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
3. MANHOLE CASTINGS SHALL BE DEETER FOUNDRY INC. NO. 1261 OR EQUAL UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. - 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
4. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
5. 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.
6. WHEREVER SELF-SEALING MANHOLE LIDS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL SUPPLY AND INSTALL A DEETER NO. 1261, OR APPROVED EQUAL, TYPE FRAME WITH SELF-SEALING LID AND CLOSED PICKHOLES. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT GASKET FOR EACH SELF-SEALING LID.

AS CONSTRUCTED
PROJ. ENG. DLM DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

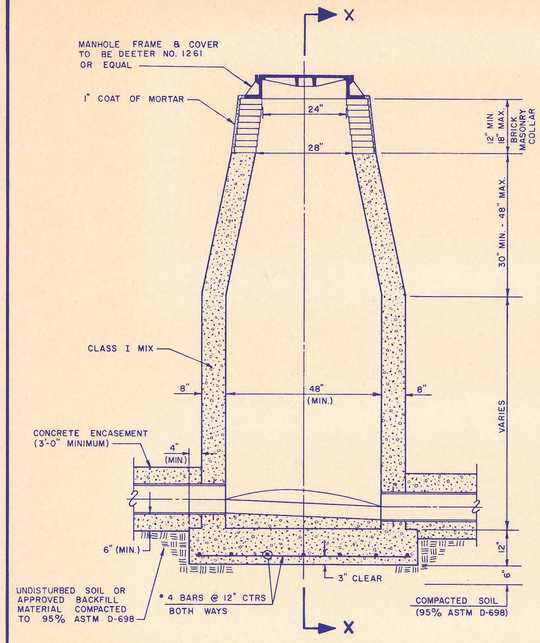
MANHOLE DETAILS

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

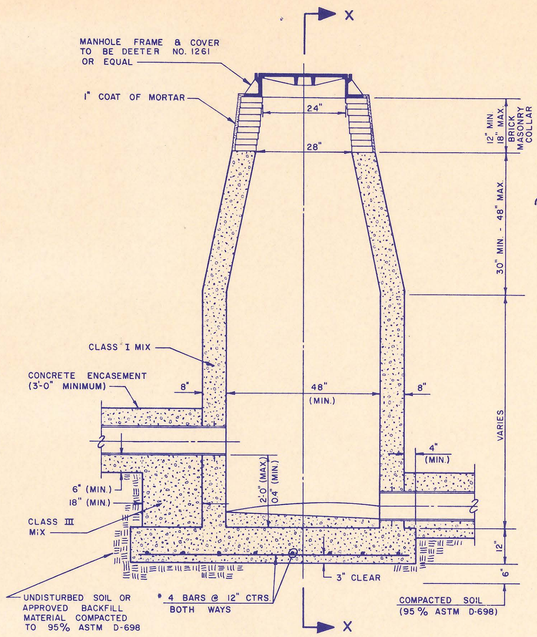
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by RDM, DLM	Job No. 34-85254-1	Sht. 5 of 36
Drawn by GM, GD	Date Feb. 1986	

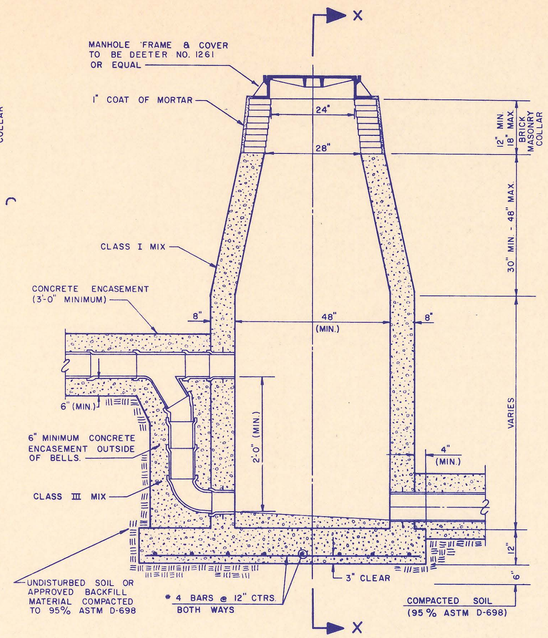
PART "A"



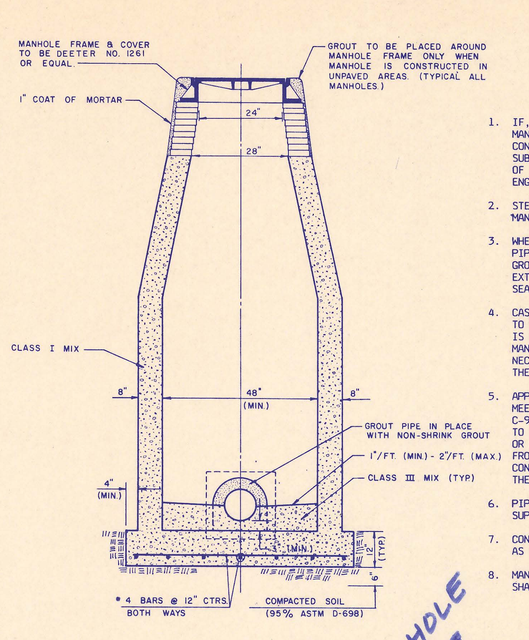
CAST IN PLACE
STANDARD MANHOLE
TYPE "A"



CAST IN PLACE
DROP MANHOLE
TYPE "B"



CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "C"



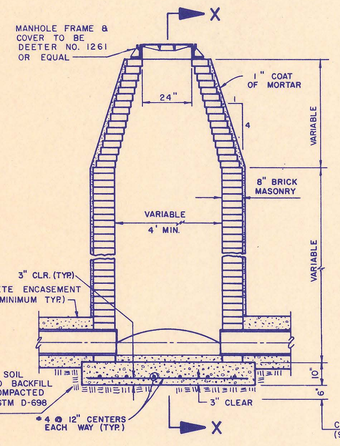
SECTION X
(TYPICAL)

MANHOLE NOTES

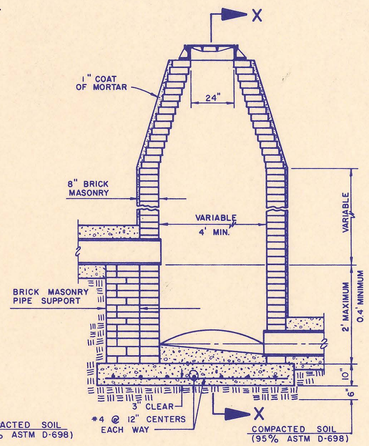
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. WHEN OPENINGS ARE CUT IN MANHOLE WALLS FOR PIPE, THE PIPE OR PIPE CONNECTOR SHALL BE GROUTED IN PLACE WITH NON-SHRINKING GROUT. 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. SEWER PIPE EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
6. PIPE PLUGS SHALL BE PROVIDED BY PIPE SUPPLIER.
7. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
8. MANHOLES WITH PIPE SIZES LARGER THAN 15" SHALL HAVE 5' INSIDE DIAMETER.

THESE MANHOLE TYPES WERE NOT USED

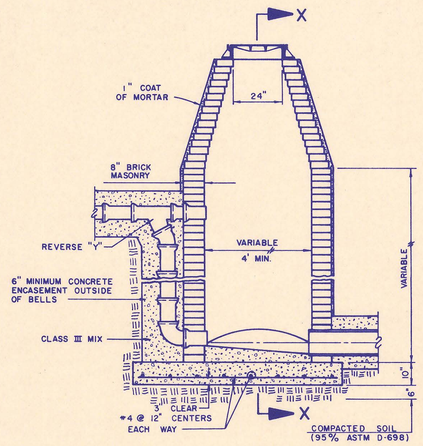
AS CONSTRUCTED
PROJ. ENG. DRK DATE 3-31-88
RES. ENG. LDC DATE 3-31-88



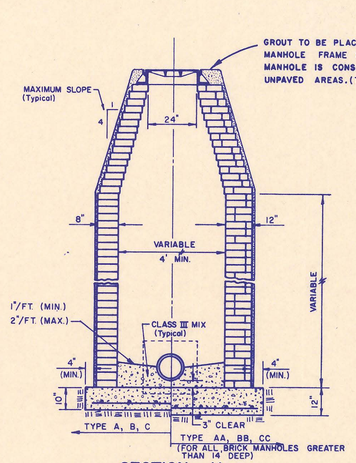
STANDARD MANHOLE
TYPE A



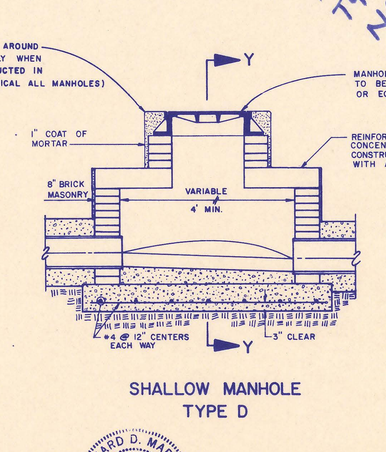
DROP MANHOLE
TYPE B



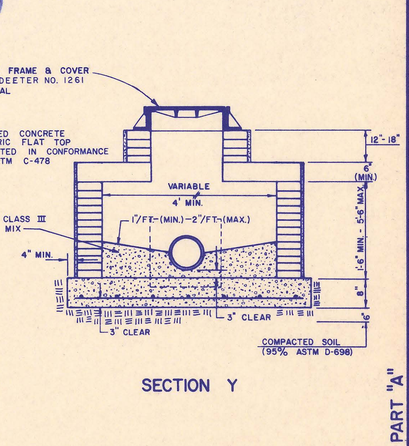
OUTSIDE DROP MANHOLE
TYPE C



SECTION X



SHALLOW MANHOLE
TYPE D



SECTION Y

PART "A"

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

BRUCE D RENSBERG LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

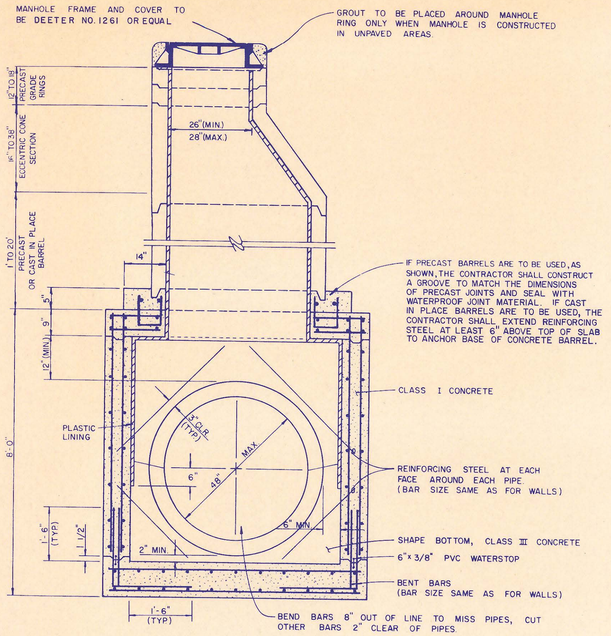
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MANHOLE DETAILS

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

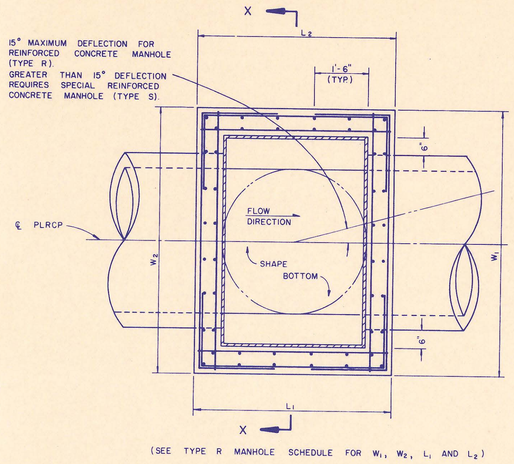
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by RDM, LM, RFJ	Job No. 34-85254-1	Sht. 6	of 36
Drawn by GM, RFJ	Date Feb. 1986		



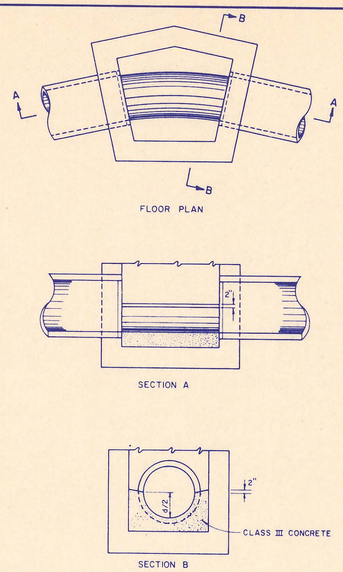
SECTION "X"
REINFORCED CONCRETE MANHOLE
(TOP MH TO FL OUT = 11.0' TO 22.0')

SEE "MANHOLE DIMENSIONS AND REINFORCING STEEL SCHEDULE" FOR WALL, FLOOR, AND TOP SLAB STEEL REINFORCEMENT.



(SEE TYPE R MANHOLE SCHEDULE FOR W_1, W_2, L_1 AND L_2)

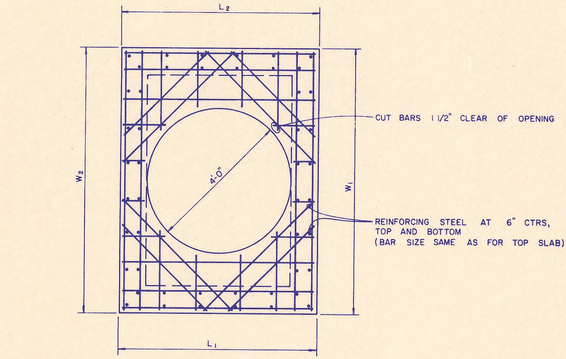
REINFORCED CONCRETE MANHOLE
TYPICAL PLAN VIEW



TYPICAL MANHOLE FLOOR SHAPING DETAILS

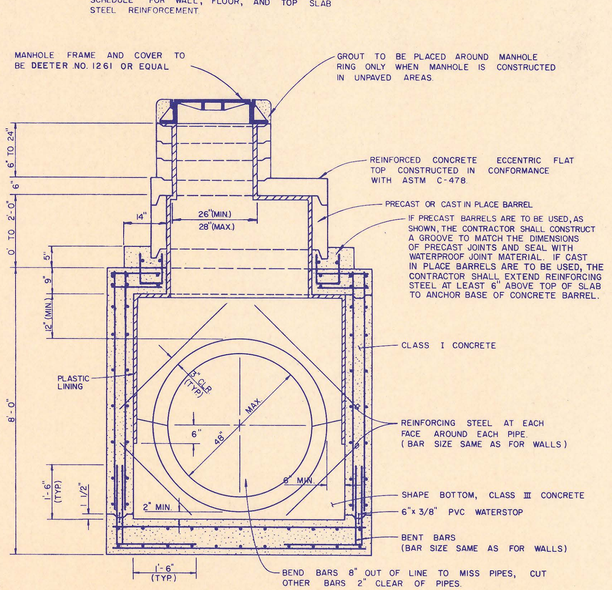
TYPE "R" MANHOLE SCHEDULE						
MH NO.	PIPE SIZE	DIMENSIONS* W_1	W_2	L_1	L_2	DEFLECTION ANGLE (Δ)
1	30" PLRCP	6'- 0"	5'- 0"	5'- 9"	5'- 9"	9°22'48"
3	30" PLRCP	5'- 6"	5'- 6"	5'- 7"	5'- 7"	0°00'00"
4	30" PLRCP	5'- 7½"	5'- 7½"	5'- 7½"	5'- 7½"	91°28'27"
7	30" PLRCP	5'- 7½"	5'- 7½"	5'- 7"	5'- 7"	89°21'04"
9	30" PLRCP	5'- 1"	5'-11"	5'- 8½"	5'- 8½"	8°21'17"
10	30" PLRCP	5'- 1"	6'- 1"	6'- 1"	5'- 1"	79°34'53"
11	30" PLRCP	5'-10½"	5'- 1½"	5'- 7½"	5'- 7½"	7°37'09"

*SIDE W_1 = DOWNSTREAM SIDE OF MANHOLE
SIDE W_2 = DIRECTLY OPPOSITE "W_1"
SIDE L_1 = ADJACENT TO, AND CLOCKWISE FROM "W_1"
SIDE L_2 = DIRECTLY OPPOSITE "L_1"



FOR DIMENSIONS, SEE TYPE "R" MANHOLE SCHEDULE, THIS SHEET.

REINFORCED CONCRETE MANHOLE
TYPICAL TOP SLAB REINFORCEMENT



SECTION "X"
REINFORCED CONCRETE MANHOLE
(TOP MH TO FL OUT = 8.2' TO 11.0')

SEE "MANHOLE DIMENSIONS AND REINFORCING STEEL SCHEDULE" FOR WALL, FLOOR, AND TOP SLAB STEEL REINFORCEMENT.

MANHOLE DIMENSIONS AND REINFORCING STEEL SCHEDULE FOR REINFORCED CONCRETE MANHOLES

MH DEPTH (TOP FRAME TO FL OUT)	DESCRIPTION	THICKNESS	STEEL PLACEMENT	STEEL CLEARANCE
8.2' TO 11.0'	TOP SLAB:	9"	#4 @ 12" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	1½" EA. FC.
	WALLS:	9"	#4 @ 12" MAX. CTRS. (BOTH WAYS), EACH FACE.	1½" EA. FC.
	FLOOR:	12"	#4 @ 8" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	2" EA. FC.
11.0' TO 16.0'	TOP SLAB:	9"	#5 @ 12" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	1½" EA. FC.
	WALLS:	9"	#5 @ 12" MAX. CTRS. (BOTH WAYS), EA. FACE.	1½" EA. FC.
	FLOOR:	12"	#5 @ 8" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	2" EA. FC.
16.0' TO 22.0'	TOP SLAB:	9"	#5 @ 12" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	1½" EA. FC.
	WALLS:	12"	#5 @ 12" MAX. CTRS. (BOTH WAYS), EACH FACE.	1½" EA. FC.
	FLOOR:	12"	#5 @ 8" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	2" EA. FC.
22.0' TO 30.0'	TOP SLAB:	12"	#5 @ 12" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	1½" EA. FC.
	WALLS:	12"	#6 @ 12" MAX. CTRS. (BOTH WAYS), EACH FACE.	1½" EA. FC.
	FLOOR:	12"	#6 @ 8" MAX. CTRS. (BOTH WAYS), TOP & BOTTOM.	2" EA. FC.

R.C.P. CONNECTION DETAIL

PIPE CONNECTION DETAIL

MANHOLE FRAME AND COVER NOTES

1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 30.
2. THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
3. MANHOLE CASTINGS SHALL BE DEETER FOUNDRY INC. NO. 1261 OR EQUAL UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. - 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
4. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
5. 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.
6. WHEREVER SELF-SEALING MANHOLE LIDS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL SUPPLY AND INSTALL A DEETER NO. 1261, OR APPROVED EQUAL, TYPE FRAME WITH SELF-SEALING LID AND CLOSED PICKHOLES. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT GASKET FOR EACH SELF-SEALING LID.

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 NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION SHALL BE SEALED WITH APPROVED COATINGS.
4. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
5. 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.
6. 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. SEWER PIPE OTHER THAN PLRCP EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
7. PIPE PLUGS SHALL BE PROVIDED BY PIPE SUPPLIER.
8. CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
9. TYPE R MANHOLES SHALL BE REINFORCED CONCRETE MANHOLES WITH FOUR WALLS AS DETAILED ON THIS SHEET WITH WALL DIMENSIONS AS LISTED ON THE "TYPE R MANHOLE SCHEDULE." TYPE S MANHOLES SHALL BE REINFORCED CONCRETE MANHOLES WITH FIVE OR MORE WALLS AS DETAILED ON THIS SHEET AND THE SHEET TITLED "SPECIAL REINFORCED CONCRETE MANHOLES."

MICHAEL D. SCHLAMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER
RICHARD D. MAANEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER
DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

NOT USED -LM 3-31-88

PART "A"

No.	Revision	By	Date

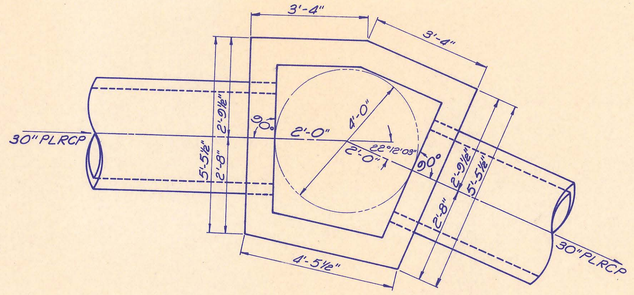
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MANHOLE DETAILS

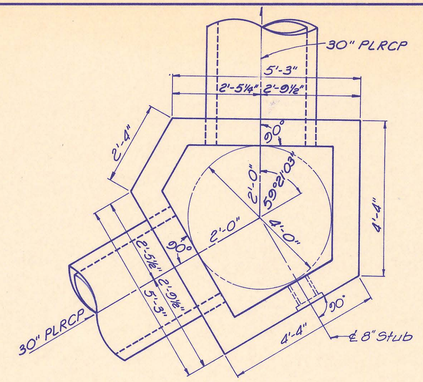
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

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

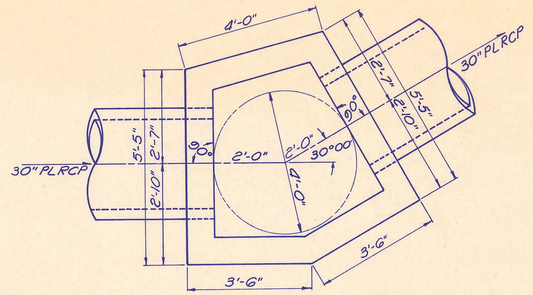
Designed by RDM, LM, RFJ | Job No. 34-85254-1 | Sht. 7 of 36
Drawn by GM | Date Feb. 1986



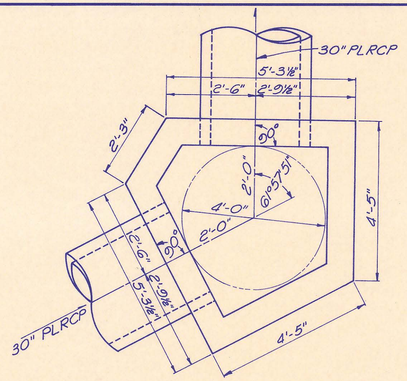
MH 2



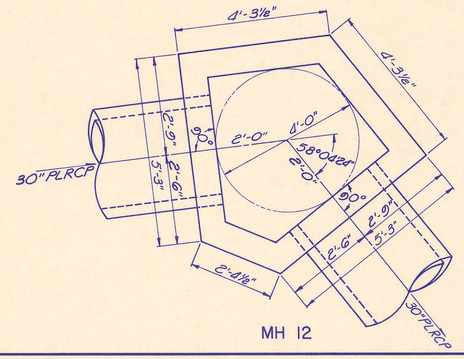
MH 5



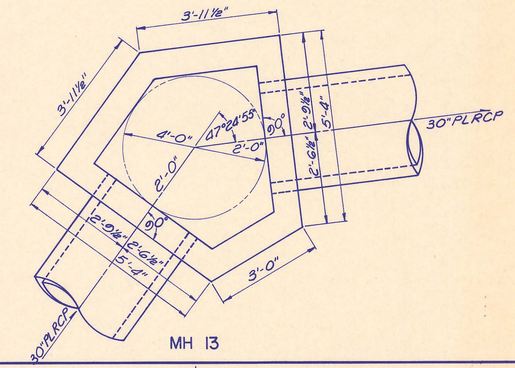
MH 6



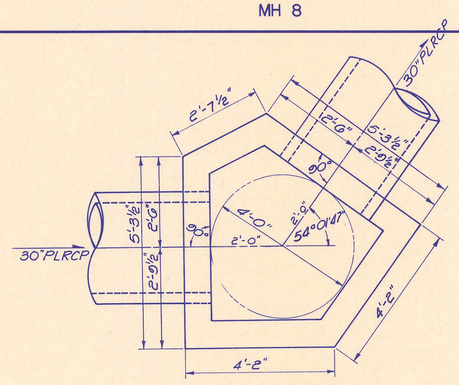
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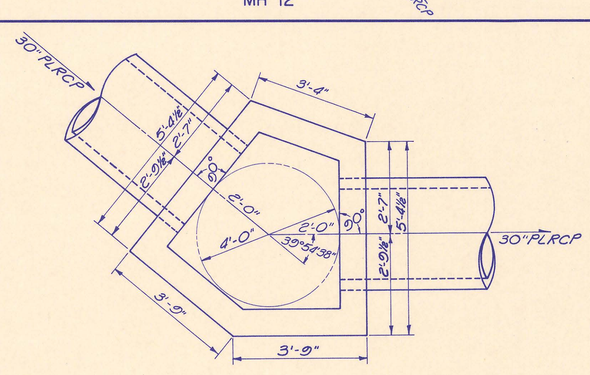
MH 12



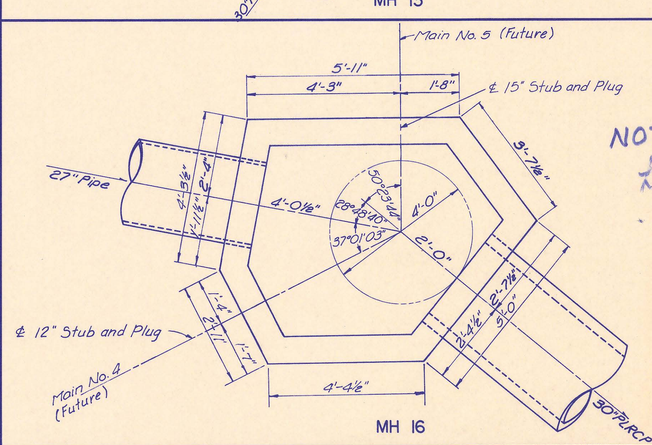
MH 13



MH 14



MH 15



MH 16

PART "A"

TYPE S
SPECIAL REINFORCED CONCRETE MANHOLES

SCALE: 1/2"=1'-0"

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

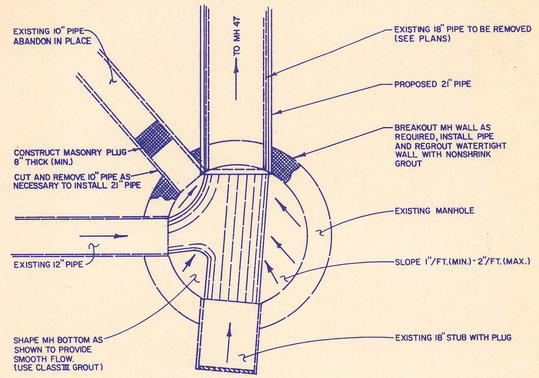
No.	Revision	By	Date

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

SPECIAL
REINFORCED CONCRETE MANHOLES
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

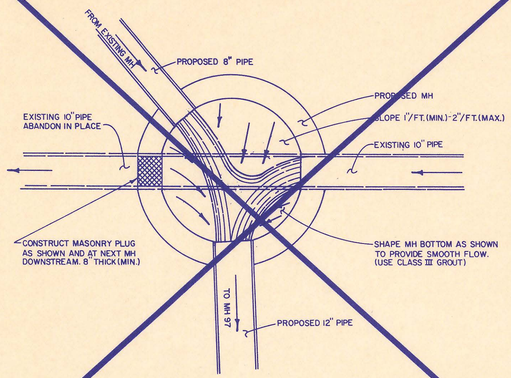
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by RDM, LM, RFJ	Job No. 34-85254-1	Sht. 8 of 30
Drawn by SC, RFJ	Date Feb. 1986	



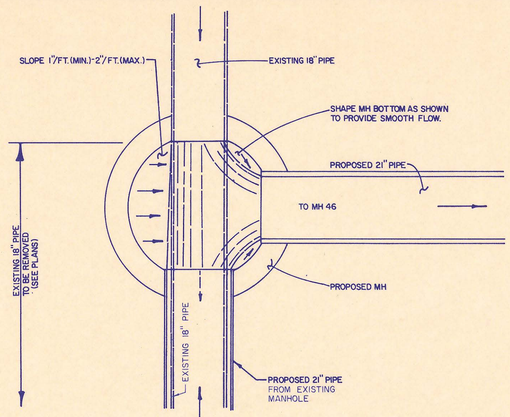
"BREAK IN" DETAIL
STA. 143+69.27, MAIN NO. 1

NOTE: CONTRACTOR SHALL INSTALL TEMPORARY PLUG IN THE EXISTING 12" PIPE BEFORE "BREAK IN" WORK BEGINS. THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMPING FROM THE NEXT MANHOLE UPSTREAM INTO THE EXISTING LIFT STATION TO MAINTAIN THE 12" PIPE IN SERVICE UNTIL WORKS ON THE MANHOLE IS COMPLETED.



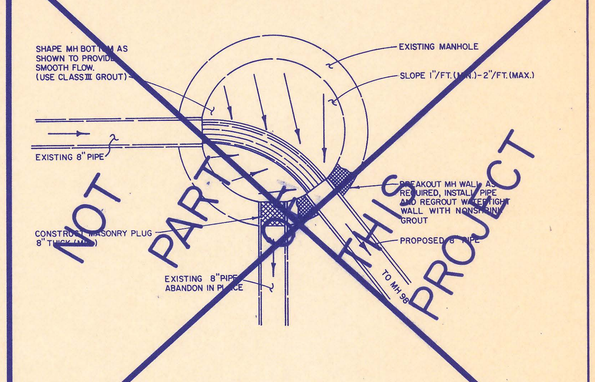
MH 98
STA. 43+61.17, MAIN NO. 7

NOTE: THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SERVICE WITHIN THE EXISTING 10" PIPE DURING CONSTRUCTION OF THE MANHOLE. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE TO THE ENGINEER FOR APPROVAL BEFORE BEGINNING THIS WORK.



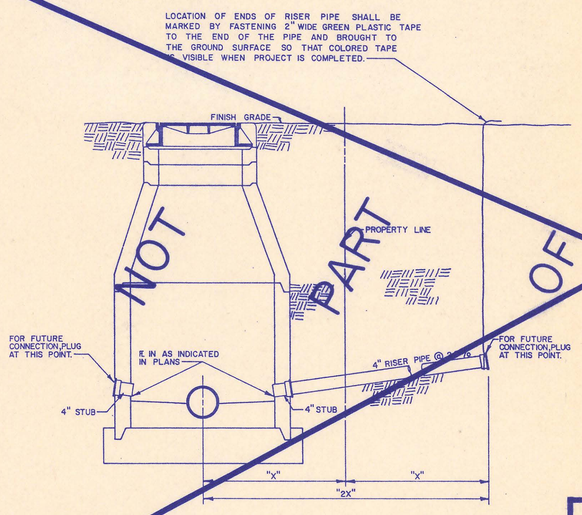
MH 47
STA. 140+38.18, MAIN NO. 1

NOTE: THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SERVICE WITHIN THE EXISTING 18" PIPE DURING CONSTRUCTION OF THE MANHOLE. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE TO THE ENGINEER FOR APPROVAL BEFORE BEGINNING THIS WORK.

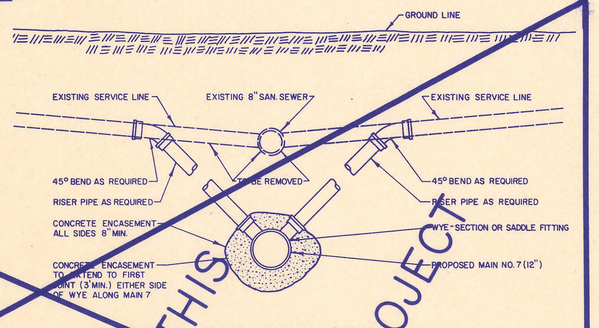


"BREAK IN" DETAIL
STA. 44+03.77, MAIN NO. 7

NOTE: THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMPING OR CHANNELING WITHIN THE MANHOLE TO MAINTAIN CONTINUOUS SERVICE IN THE EXISTING 8" PIPE DURING CONSTUCTION.



SERVICE STUB DETAIL



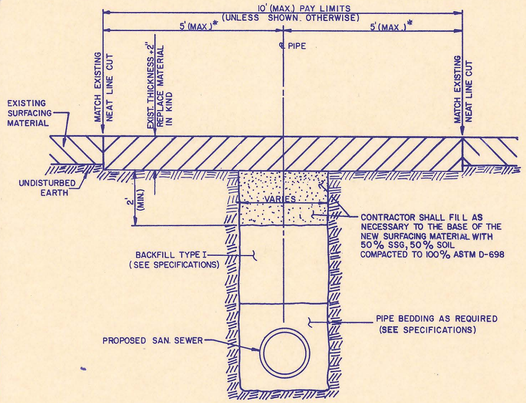
WYE AND RISER DETAIL

CONTRACTOR SHALL VERIFY THE LOCATIONS AND SIZES OF THE EXISTING SERVICE LINES AND HE SHALL INSTALL WYES AND RISERS OF MATCHING SIZE. IF SERVICE LINE PIPE MATERIAL DIFFERS FROM WYE AND RISER MATERIAL, THE CONTRACTOR SHALL PROVIDE ADAPTERS APPROVED BY THE ENGINEER.

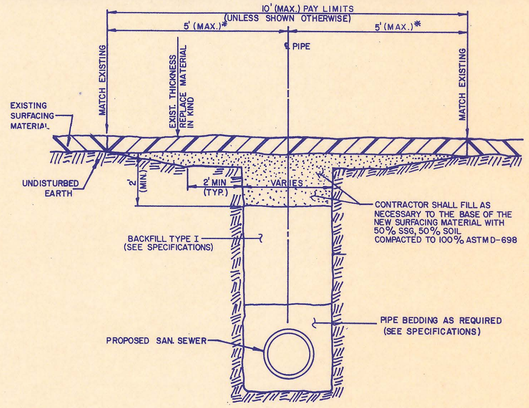
WYE LOCATION TABLE

NOTE: THE ENGINEER SHALL MEASURE THE LOCATIONS OF INSTALLED WYES AND RECORD THE LOCATIONS ON A LOCATION TABLE SUCH AS THE TABLE BELOW.

WYE NO.	DESIGN LOCATION					RISER PIPE	DISTANCE FROM MANHOLE	
	LATERAL NO.	STATION	BLOCK NO.	LOT NO.	DIRECTION	(L.F.)	UPSTREAM	DOWNSTREAM

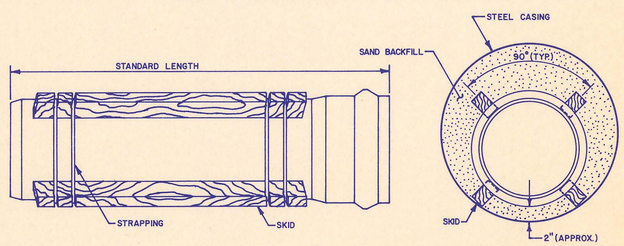


PAVED DRIVE-REMOVAL AND REPLACEMENT

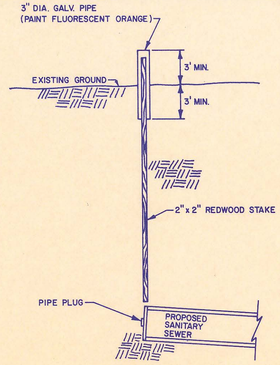


UNPAVED DRIVE-REMOVAL AND REPLACEMENT

*MINIMUM = $\frac{\text{TRENCH WIDTH}}{2}$ + 2'

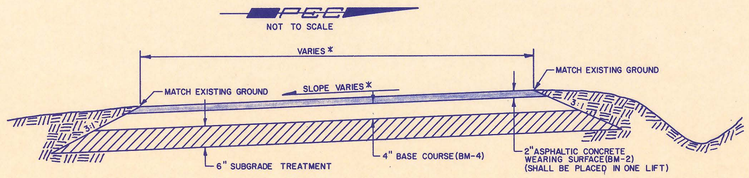


STEEL ENCASEMENT DETAIL



BURIED PIPE STAKING DETAIL

(STAKING & PLUGGING SHALL BE SUBSIDIARY TO THE PIPE LINE INSTALLATION)



EAST LYNNE AVENUE
TYPICAL REPLACEMENT DETAIL

*MATCH EXISTING SLOPE AND WIDTH

PRIOR TO REMOVING THE EXISTING ROADWAY, THE CONTRACTOR SHALL PROVIDE TO THE OWNER A HORIZONTAL AND VERTICAL CONTROL SURVEY ALONG EAST LYNNE AVENUE. THE CONTRACTOR SHALL THEN USE THIS CONTROL SURVEY FOR REPLACEMENT OF THE ROADWAY. UPON COMPLETION OF THE WORK, THE OWNER WILL CHECK THE WORK TO ENSURE THAT THE ROAD WAS REPLACED TO ITS ORIGINAL LOCATION, HORIZONTALLY AND VERTICALLY. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SEQUENCE SCHEDULE PRIOR TO BEGINNING THIS WORK REFLECTING HIS METHOD FOR PROVIDING CONTINUOUS ACCESS FOR AREA RESIDENTS.

NOT PART OF THIS PROJECT

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN WOOD LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

PART "A"

No.	Revision	By	Date

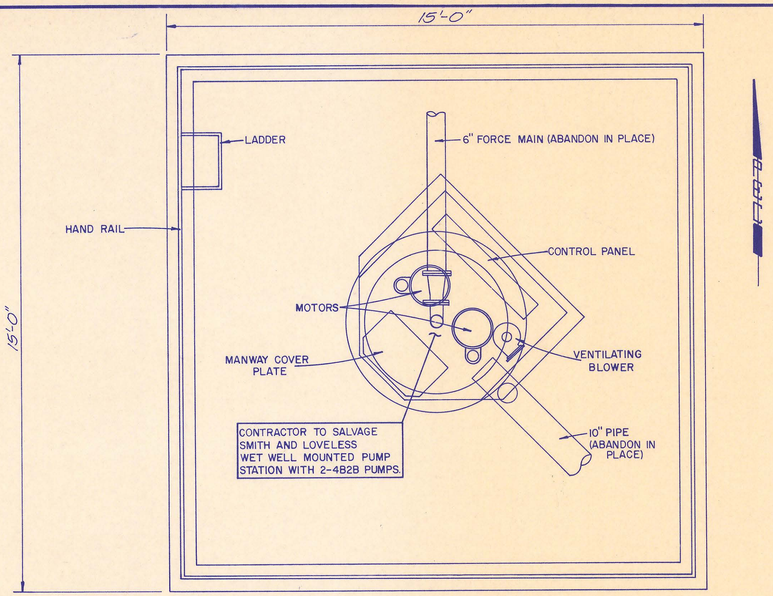
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MISCELLANEOUS DETAILS

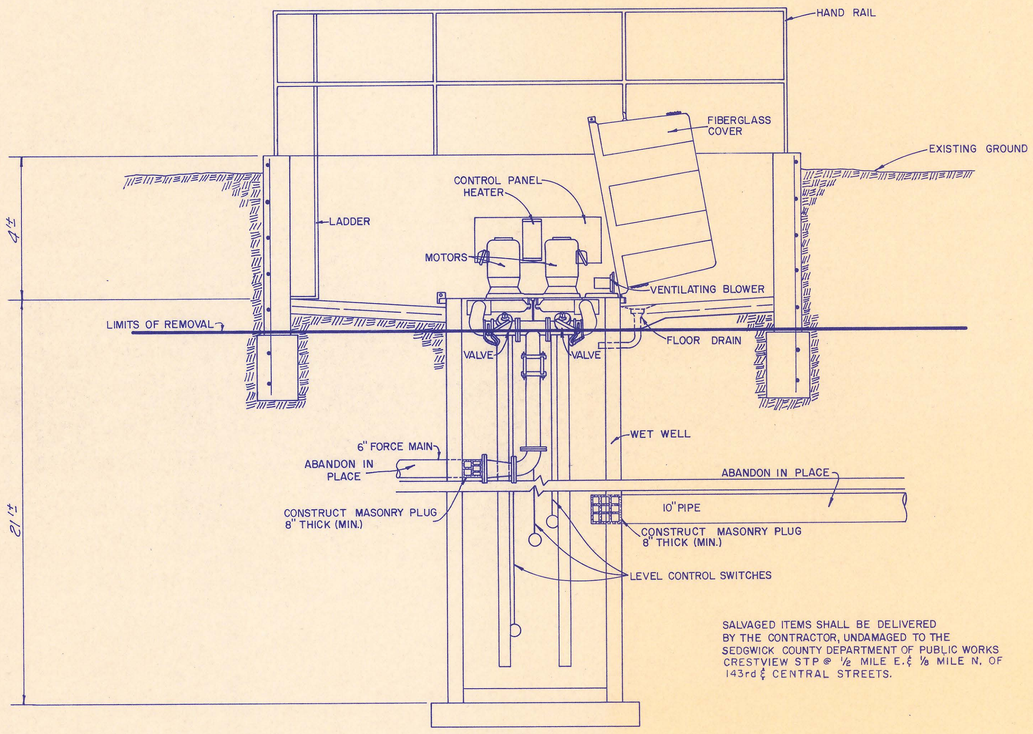
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

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

Designed by RDM, LM, RFJ	Job No. 34-85254-1	Sht. 9 of 36
Drawn by RFJ, SM	Date Feb. 1986	



PLAN VIEW



SALVAGED ITEMS SHALL BE DELIVERED BY THE CONTRACTOR, UNDAMAGED TO THE SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS CRESTVIEW STP @ ½ MILE E.℄ ⅛ MILE N. OF 143rd ℄ CENTRAL STREETS.

ELEVATION VIEW
LIFT STATION DEMOLITION PLAN

NOTES:

1. CONSTRUCTION OF SPRING CREEK INTERCEPTOR MAIN NO. 1 MUST BE COMPLETE AND ACCEPTED BY THE ENGINEER BEFORE DEMOLITION WORK ON THE PARK MEADOW ESTATES PUMPING STATION BEGINS. THE CONTRACTOR SHALL COORDINATE SALVAGE AND DEMOLITION OPERATIONS WITH THE ENGINEER BEFORE BEGINNING THE WORK.

2. THE CONTRACTOR SHALL COMPLETELY DRAIN ALL WASTEWATER FROM THE 6-INCH FORCE MAIN AND DISPOSE OF THE WASTEWATER IN A MANNER ACCEPTABLE TO THE ENGINEER. THE COMPLETED MAIN NO. 1 MAY BE USED FOR THIS DISPOSAL WITH THE WRITTEN CONSENT OF THE ENGINEER.

3. DISCONNECT THE ELECTRIC SERVICE LINE TO THE PUMP STATION AND GENERATOR. REMOVE THE EXISTING SERVICE WIRE FROM THE EQUIPMENT CONNECTIONS TO THE METER. THE CONTRACTOR SHALL CONTACT K.G.&E. TO ORDER REMOVAL OF THE METER.

4. THE EMERGENCY GENERATOR, AND THE PUMP STATION EQUIPMENT SHALL BE CAREFULLY SALVAGED BY THE CONTRACTOR AND DELIVERED TO A STORAGE SITE AS DIRECTED BY THE ENGINEER.

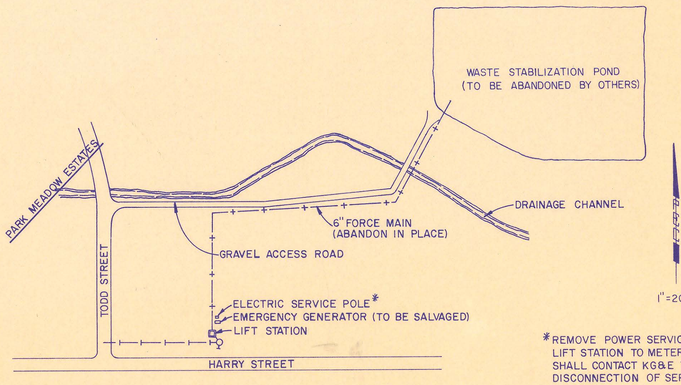
5. ALL PIPE CONNECTIONS TO THE WET WELL SHALL BE PLUGGED BY INSTALLING MASONRY PLUGS AT LEAST 8-INCHES THICK IN THE ENDS OF THE PIPES.

6. THE CONTRACTOR SHALL DEMOLISH THE PUMP STATION PIT AND THE GENERATOR PAD BY BREAKING UP THE WALLS, FLOOR, AND PAD; AND DISPOSING OF THE HANDRAIL AND CONCRETE RUBBLE IN A MANNER AND LOCATION APPROVED BY THE ENGINEER. THE WET WELL SHALL BE ABANDONED IN PLACE BY PUNCTURING OR BREAKING THROUGH THE FLOOR OR THROUGH THE WALLS WITHIN ONE FOOT OF THE FLOOR TO PROVIDE DRAINAGE AND THEN COMPLETELY FILLING THE WET WELL AND PIT AREA WITH APPROVED SAND MATERIAL TO WITHIN TWO FEET OF THE EXISTING GRADE. THE UPPER TWO FEET OF THE PIT AREA SHALL BE BACKFILLED WITH APPROVED EXISTING MATERIAL COMPACTED AS REQUIRED FOR TRENCH BACKFILL TO MATCH THE EXISTING GRADE OF THE IMMEDIATE AREA.

7. CONCRETE RUBBLE FROM DEMOLITION OF THE PUMP PIT AND GENERATOR PAD MAY BE PLACED IN THE WET WELL UP TO THE LIMITS OF REMOVAL AS SHOWN IN THE PLANS. THE LARGEST DIMENSION OF BROKEN CONCRETE PIECES USED AS FILL SHALL NOT EXCEED 18-INCHES. REBAR SHALL NOT EXTEND MORE THAN TWO-INCHES FROM ANY RUBBLE USED AS FILL. LOOSE REBAR SHALL NOT BE USED AS FILL.

8. ALL AREAS DISTURBED BY THE DEMOLITION WORK SHALL BE REGRADED SMOOTH AND SEEDED AS DIRECTED IN THE SPECIFICATIONS.

9. CONTRACTOR SHALL REMOVE NATURAL GAS PIPING FROM GENERATOR TO GAS METER. CONTRACTOR SHALL CONTACT GAS SERVICE COMPANY TO DISCONNECT SERVICE AND REMOVE THE GAS METER.



LOCATION MAP
(INTERCEPTOR IMPROVEMENTS NOT SHOWN)

*REMOVE POWER SERVICE LINE FROM LIFT STATION TO METER. CONTRACTOR SHALL CONTACT KG&E TO ORDER DISCONNECTION OF SERVICE AND REMOVAL OF METER.

AS CONSTRUCTED
PREPARED BY DK DATE 3-31-88
REVISED BY LDC DATE 3-31-88

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

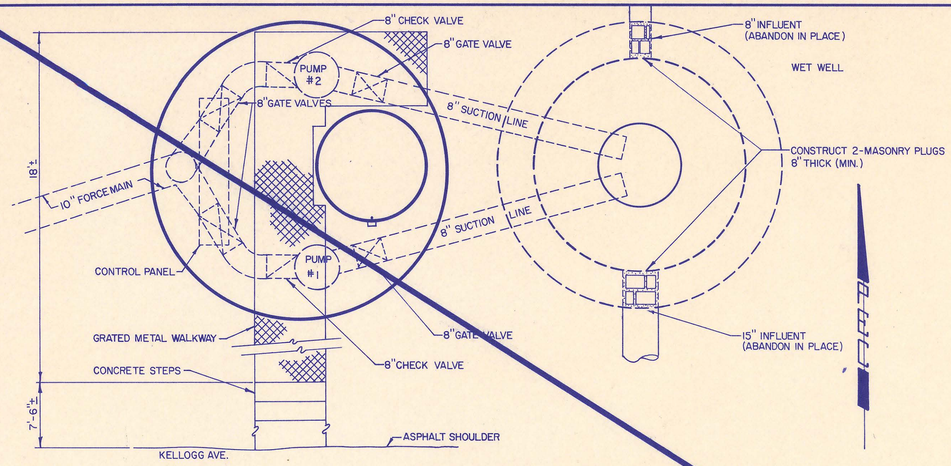
PARK MEADOW ESTATES
WASTEWATER FACILITIES DEMOLITION

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

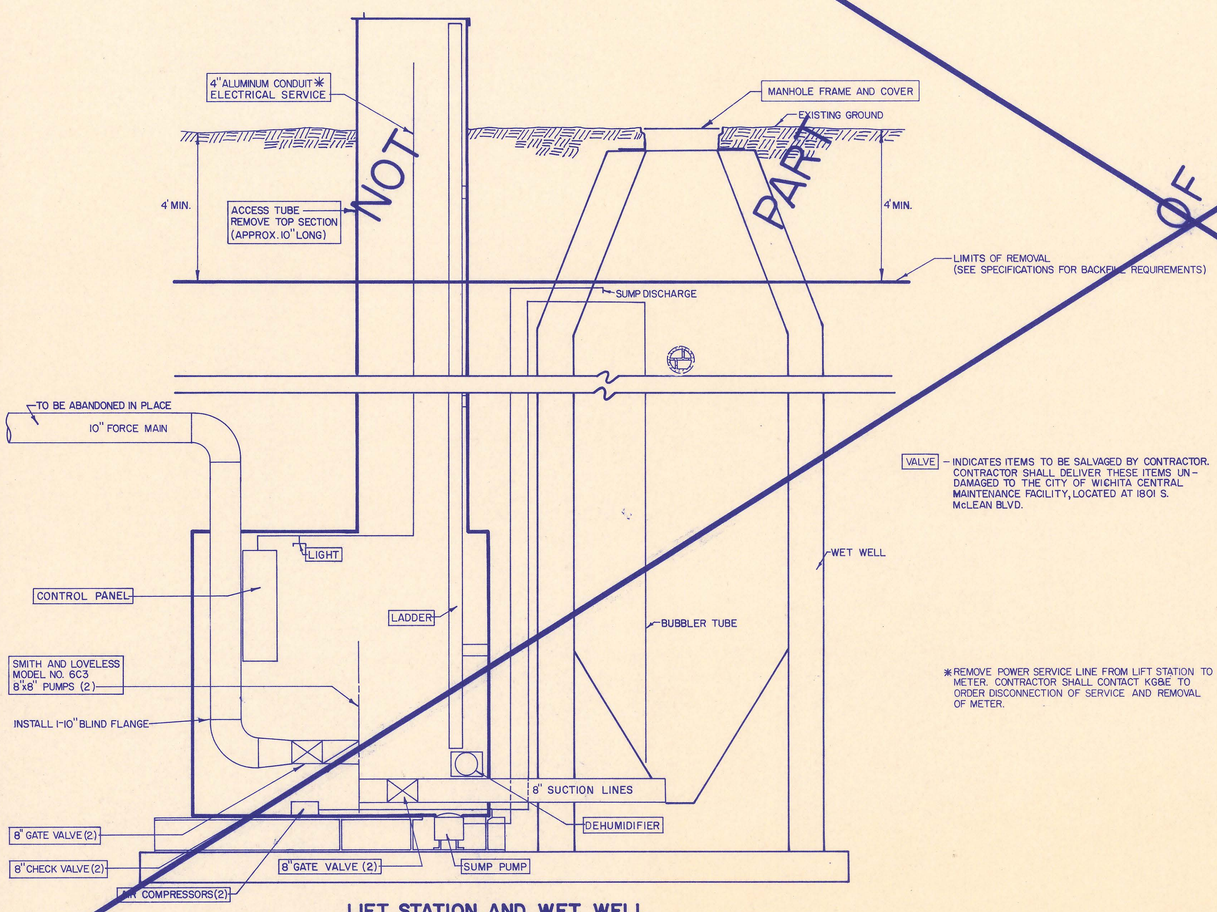
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by RDM, LM, RFJ	Job No. 37-85254	Sht. 10 of 36
Drawn by CL, TWC	Date Feb 1986	

PART "B"



PLAN VIEW



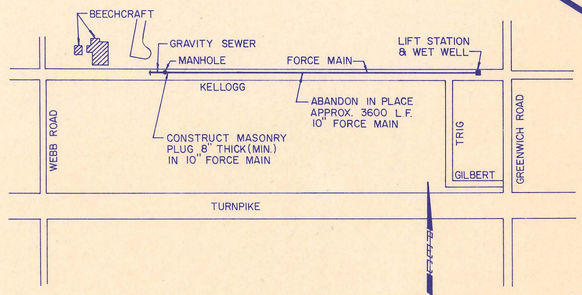
LIFT STATION AND WET WELL DEMOLITION PLAN

VALVE – INDICATES ITEMS TO BE SALVAGED BY CONTRACTOR. CONTRACTOR SHALL DELIVER THESE ITEMS UNDAMAGED TO THE CITY OF WICHITA CENTRAL MAINTENANCE FACILITY, LOCATED AT 1801 S. McLEAN BLVD.

*REMOVE POWER SERVICE LINE FROM LIFT STATION TO METER. CONTRACTOR SHALL CONTACT KG&E TO ORDER DISCONNECTION OF SERVICE AND REMOVAL OF METER.

NOTES:

1. AFTER THE INTERCEPTOR HAS BEEN COMPLETED AND PLACED INTO SERVICE SO THAT THE CITY OF WICHITA LIFT STATION IS NO LONGER IN USE, THE CONTRACTOR SHALL DEMOLISH THE LIFT STATION AS DIRECTED HEREIN. BEFORE BEGINNING DEMOLITION, THE CONTRACTOR SHALL CONTACT THE SEWER MAINTENANCE DIVISION OF THE WICHITA WATER AND WASTEWATER DEPARTMENT (268-4210) TO COORDINATE THE WORK AND THE DELIVERY OF ITEMS TO BE SALVAGED.
2. THE CONTRACTOR SHALL COMPLETELY DRAIN ALL WASTEWATER FROM THE 10-INCH FORCE MAIN AND DISPOSE OF THE WASTEWATER IN A MANNER ACCEPTABLE TO THE ENGINEER.
3. THE CONTRACTOR SHALL DISCONNECT THE ELECTRIC SERVICE TO THE LIFT STATION AND REMOVE THE EXISTING SERVICE WIRE FROM THE LIFT STATION TO THE METER AND SHALL CONTACT KG&E TO ORDER REMOVAL OF THE METER.
4. THE MANHOLE FRAME AND COVER, METAL WALKWAY, WASTEWATER PUMPS, CONTROL PANEL, VALVES, PIPE FITTING, COMPRESSORS, SUMP PUMP, DEHUMIDIFIER, ACCESS LADDER, AND ACCESS TUBE AND ANY OTHER ITEMS INDICATED FOR SALVAGE SHALL BE CAREFULLY REMOVED FROM THE LIFT STATION AND DELIVERED TO THE CITY OF WICHITA CENTRAL MAINTENANCE FACILITY AT 1801 SOUTH McLEAN BOULEVARD.
5. ALL PIPE CONNECTIONS TO THE LIFT STATION AND WET WELL SHALL BE PLUGGED USING EITHER BLIND FLANGES OR 8-INCH THICK FITTING MASONRY PLUGS AS REQUIRED. THE 10-INCH FORCE MAIN ALSO SHALL BE PLUGGED AT THE RECEIVING MANHOLE BY CONSTRUCTION OF AN 8-INCH MASONRY PLUG (SEE LOCATION MAP).
6. THE WET WELL MANHOLE AND THE LIFT STATION SHALL BE ABANDONED IN PLACE BY REMOVING ANY WALLS, PIPES, CONDUIT, CONCRETE STEPS, OR OTHER MATERIAL TO A DEPTH OF AT LEAST 4 FEET BELOW EXISTING GRADE. DRAINAGE OF THE LIFT STATION AND MANHOLE SHALL BE PROVIDED BY PUNCTURING OR BREAKING THE WALLS OF BOTH STRUCTURES WITHIN ONE FOOT OF THE STRUCTURE FLOOR. BOTH STRUCTURES THEN SHALL BE COMPLETELY FILLED WITH APPROVED SAND MATERIAL TO WITHIN TWO FEET OF GRADE. THE FINAL TWO FEET SHALL BE BACKFILLED WITH APPROVED EXISTING MATERIAL COMPACTED AS REQUIRED FOR TRENCH BACKFILL.
7. DEBRIS SUCH AS BRICK, GROUT, AND BROKEN CONCRETE FROM DEMOLITION OF THE STRUCTURES MAY BE DEPOSITED IN THE BOTTOM OF THE STRUCTURES AS FILLED. THE LARGEST DIMENSION IN ANY DIRECTION OF MATERIAL DISPOSED IN THIS MANNER SHALL BE NO MORE THAN 12 INCHES.
8. ALL AREAS DISTURBED BY THIS WORK SHALL BE REGRADED TO THE ORIGINAL CONTOURS AND SEEDED AS DIRECTED IN THE SPECIFICATIONS.



LOCATION MAP

THIS PROJECT IS NOT A PART OF

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARCY LICENSED 8231 KANSAS PROFESSIONAL ENGINEER

Note:
Contractors may arrange to inspect lift station prior to bid by calling the Sewer Maintenance Division of the Wichita Department of Water and Water Pollution Control. Ph. 268-4210

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

CITY OF WICHITA LIFT STATION NO. 11 DEMOLITION

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

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

Designed by RDM, LM, RFJ	Job No. 34-85254-1	Sht. 11 of 11
Drawn by CL, TWC	Date	

SPRING HOLLOW ADDITION

Sta. 0+00.00
Existing MH "A"
Connect to 30" PLRCP
See Gen. Note No. 12
Sht. No. 4

Existing 10" Sanitary Sewer

20' Utility Easement

5' Utility Easement

Existing 30" Sanitary Sewer

℄ 20' Utility Easement

℄ 20' Drainage & Utility Easement

Baseline "100" ℄

Main No. 1

Install 1-4" Stub and plug

Sta. 1+35 to Sta. 2+95, Const. 100 L.F. 30" Conc. Encasement

Sta. 3+35.09
Const. MH 1
Type K

Remove and reset Fence as required

Sta. 5+00.00 to Sta. 6+00.00
Const. 100.00 L.F. 30"
Concrete Encasement

Sta. 7+11.60
Const. MH 2
Type S
w/self sealing lid
(See Sht. No. 8)

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

Sta. 10+31.03
Const. MH 3
Type K
w/self sealing lid

Spring Branch of the Four Mile Creek

Install 1-8" Stub and Plug

332.41
Install 335.69 L.F. 30" PLRCP

℄ "100" Sta 0+00.00 on ℄

℄ "100" Sta 3+32.41 ~~on ℄~~ 70 Left

CAUTION! Cable TV

377.01
Install 375.31 L.F. 30" PLRCP

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

℄ "100" Sta 7+09.34 ~~on ℄~~ 3.05 Left

320.07
Install ~~319.43~~ L.F. 30" PLRCP

℄ "100" Sta 10+30.74 ~~on ℄~~ 1.32 Left

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

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

AS CONSTRUCTED
PRO. ENG. ~~DDE~~ DATE 3-21-86
RES. ENG. LDE DATE 3-21-86

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICEN. ED 8281 KANSAS PROFESSIONAL ENGINEER

Existing MH
Top Elev. = 1299.8
IE OUT = 1288.86
IE IN = 1288.88

+.05

Existing Ground

Connection W/E 30" PL RCP P.I. 7°± Rt.

IE IN = 1290.26 (10") from existing 10" Pipe

Existing 30" PLRCP

Conc. Cradle under Jt. from MH to 10'±

MH 1
Top Elev. = ~~1301.6~~ 1301.9

IE IN = 1298.00 (4") from 4" Stub (SE)

100' Concrete Enc. (30")

+.95

+.85

120' Type III Backfill

+.05

NOTE: If the Optional High Density Polyethylene Profile Wall Pipe is used from Sta. 0+00 to Sta. 3+35.09, the Contractor shall provide a detail drawing of the proposed method of providing a stable, water-tight joint between the two types of pipe.

IE IN = 1291.05 (8") from 8" Stub (N)

IE OUT = 1289.11
IE IN = 1289.16

332.41
~~335.69~~ L.F. 30" PLRCP @ 0.10 %

100' Concrete Encasement

5.00

6.00

+.20

(120') Type III Backfill

577.01
~~575.31~~ L.F. 30" PLRCP @ 0.10 %

MH 2
Top Elev. = ~~1294~~ 1293.2

IE OUT = 1289.55
IE IN = 1289.53

Existing Ground

MH 3
Top Elev. = ~~1300.5~~ 1300.3

IE OUT = 1289.81
IE IN = 1289.89

320.07
~~319.43~~ L.F. 30" PLRCP @ 0.10 %

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00

1315 1310 1305 1300 1295 1290 1285 1280 1275

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-85554-1
Designed by RDM/LM, RMT
Date February, 1986
Drawn by TC, GH

SEDGWICK COUNTY, BUREAU OF PUBLIC SERVICES
DON BRACE, P.E., DIRECTOR OF PUBLIC SERVICES
DIRECTOR, BUREAU OF UTILITIES & SPECIAL SERVICES/COUNTY ENGINEER

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

INTERCEPTOR A PART "A"

Sht. 12 of 36

Sht 11 Omitted from Plans

Sta. 10+31.03
MH 3

Sta. 13+50.40
Const. MH 4
Type R
w/self-sealing lid

40' Temp. Const. Esmt.

30' San. Sew. Esmt.

MAIN No. 17

Baseline "100"

10+00

Sta. 13+50.40
MH 4

Sta. 16+17.47
Const. MH 5
Type S
(See Sht. No. 8)

Install 1-8" Stub and plug

Sta. 18+55.76
Const. MH 6
Type S
w/self-sealing lid
(See Sht. No. 8)

Sta. 20+25.77
Const. MH 7
Type R
w/self-sealing lid

Remove and reset Fence as required

Sta. 17+86 to Sta. 18+56
Constr. 70 L.F. 30"
Conc. Encasement

Install 1-6" Stub and Plug

40' Temp. Const. Esmt.

30' San. Sew. Esmt.

Baseline "100"

16+11.26
8"100" Sta. ~~16+10.77~~
~~0.87' Left~~
7.62'

264.68
Install ~~267.0~~ L.F.
30" PLRCP

236.37
Install ~~238.2~~ L.F.
30" PLRCP

18+47.38
8"100" Sta. ~~18+48.14~~
~~2.53~~ Right
6.31'

170.31
Install ~~170.0~~ L.F.
30" PLRCP

Remove and reset Fence as required

318.24
Install ~~319.43~~ L.F.
30" PLRCP

10+30.74
8"100" Sta. ~~10+31.03~~
or ~~8~~
1.31' Left

13+49.36
8"100" Sta. ~~13+50.45~~
~~or 8~~
~~1.47~~ Right

Install 1-8" Stub and plug

13+49.53
8"100" Ext. Sta. ~~13+50.79~~
~~or 8 Ext.~~
.47' Right

Sta. 20+06.03
8"100" Sta. ~~20+06.03~~
~~0.03~~ Right
96.58

Identical Points

Lower Line

Existing Ground

Dip Const. Per Lyle Nored

Finished Ground

1½" Waterline W/4" Sleeve

Type PVC W/4" Sleeve

Fence

Overhead Elec.

Underground Elec.

Underground Tele.

Underground Gas

Mulberry

Hackberry

Locust

Elm

Cedar

Oak

Walnut

Pecan

Ash

Cottonwood

Willow

Sycamore

Hickory

Maple

Pine

Spruce

Cherry

Apple

Peach

Pear

Plum

Apricot

Nectarine

Quince

Persimmon

Fig

Grape

Olive

Date

Coconut

Banana

Pineapple

Mango

Papaya

Guava

Kiwi

Lemon

Lime

Orange

Grapefruit

Tangerine

Tangelo

Ugli

Kumquat

Loquat

Medlar

Jujube

Jujube

Jujube

Sta. 20+25.77
MH 7

Sta. 21+15.20
Conct. MH 8
Type S
w/ self-sealing lid
(See sht. No. 8)

Sta. 21+15.20 to Sta. 22+10
Conct. 94.8 L.F. 30"
Concrete Encasement
(See Specifications)

Sta. 25+22.94
Conct. MH 9
Type R
w/ self-sealing lid

Install 1-6" Stub and Plug

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

Sta. 28+38.84
Conct. MH 10
Type R
w/ self-sealing lid

Install 1-8" Stub and plug

HARRY STREET

Temp. Conct. Esmt.

Baseline

Main No. 17

8" Tile

8" Cottonwood

8" Box Elder

11" Honey Locust

8" Elm

8" Hackberry

8" Honey Locust

8" Box Elder

8" Cottonwood

Bird Nest

Power Pole

Guy Wire

Fence

Barn

Gravel Drive

Concrete Drive

Brick Walk

Brick Porch

Brick Steps

Concrete Steps

Brick Chimney

Shed

Garage

Frame Garage

Brick Garage

Brick Fence

Wire Fence

Metal Fence

Wood Fence

Sewer Manhole

Water Valve

Water Meter

Gas Valve

Gas Meter

Gas Line

Water Line

Overhead Wires

Telephone Pedestal

Telephone Box

Telephone Manhole

Electric Meter

Electric Pedestal

Electric Box

Electric Manhole

Light Pole

Mail Box

Sign

Flag Pole

Bench

Fire Hydrant

Yard Light

Pipe Rail

Concrete Curb

Concrete Gutter

Asphalt Paving

Gravel Paving

Brick Paving

Concrete Paving

Sod

Trees

Shrubs

Bushes

Flowers

Grass

Rock

Rock Wall

Retaining Wall

Steps

Bridge

Creek

Ditch

Pond

Lake

Fill

Cut

Top of Bank

Toe of Slope

Edge of Water

Edge of Timber

Edge of Brush

Edge of Woods

Edge of Trees

Edge of Grass

Edge of Pavement

Edge of Gravel

Edge of Concrete

Edge of Asphalt

Edge of Brick

Edge of Rock

Edge of Wall

Edge of Steps

Edge of Bridge

Edge of Creek

Edge of Ditch

Edge of Pond

Edge of Lake

Edge of Fill

Edge of Cut

Edge of Top of Bank

Edge of

Sta. 28+38.84
MH 10

Sta. 31+70.54 to Sta. 32+05.54
Const. 35 L.F. 30"
Concrete Encasement
(See Specifications)

Sta. 32+53.54
Const. MH 11
Type R
W/ self-sealing lid

Sta. 34+82.44
Const. MH 12
Type S
W/ self-sealing lid
(See Sht. No. 8)

Sta. 34+82.44
MH 12

Sta. 38+18.01 to Sta. 39+18.01
Const. 100 L.F. 30"
Concrete Encasement
(See Specifications)

Sta. 39+18.01
Const. MH 13
Type S
W/ self-sealing lid
(See Sht. No. 8)

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

HARRY STREET

Spring Branch of the Four Mile Creek

Main No. 1

30' San. Sew. Easement

Baseline "300"

Const. Easmt.

Temp. Const. Easmt.

323.17
Install ~~330.70~~ L.F.
30" PLRCP

219.99
Install ~~216.00~~ L.F.
30" PLRCP

435.69
Install ~~436.47~~ L.F.
30" PLRCP

28+74.97
℄ "100" Sta ~~28+75.00~~
~~36.00~~ Left
33.88'

903+98.18
℄ "900" Sta ~~900+00.00~~
~~1000~~ Right
12.08'

905+29.37
℄ "900" Sta ~~900+30.00~~
~~1000~~ Right
11.43'

905+29.37
℄ "900" Sta ~~900+30.00~~
~~1000~~ Right
11.43'

908+30.67
℄ "900" Sta ~~900+00.00~~
~~1000~~ Right
9.82'

Remove and Reset Fence as required

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC., FLOWN MARCH, 1981.

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER
DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER
RICHARD D. MARKLEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

MH 10
Top Elev. ~~1302.6~~ 1302.8
℄ Out = ~~1293.07~~ 1293.27
℄ In = ~~1293.35~~ 1293.55
~~1293.93~~

MH 11
Top Elev. ~~1303.0~~ 1303.23
℄ = 1294.29

MH 12
Top Elev. ~~1304.2~~ 1304.4
℄ Out = ~~1294.69~~ 1294.89
℄ In = ~~1294.59~~ 1294.79
1294.67

MH 13
Top Elev. ~~1305.3~~ 1305.5
℄ Out = ~~1296.56~~ 1296.76
℄ In = ~~1296.66~~ 1296.86
1296.71

Existing Ground

Install 6" Stub (S)
Fl. Elev. 1296.28

Concrete Encasement
31'+70.54
Type III Backfill

Concrete Encasement
(100'x30')
~~38+18.01~~ 38+18.91
~~39+18.01~~ 39+18.91
Type III 103' Backfill

323.17
~~326.70~~ L.F. 30" PLRCP
@ 0.10%

219.99
~~216.00~~ L.F. 30" PLRCP
@ 0.10%

435.69
~~436.47~~ L.F. 30" PLRCP
@ 0.45%

AS CONSTRUCTED
PROJ. ENG. DRM DATE 3-31-82
RES. ENG. LDC DATE 3-31-82

1315 1310 1305 1300 1295 1290 1285 1280 1275

29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by RDM, LM, RFT | Job No. 34-82264-1
Drawn by TC, GM | Date February, 1982

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

INTERCEPTOR A

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"

Sht. 15 of 36

Sta 30+18.91
MH 13

Sta 44+10.54
Const MH 14
Type S
W/ self-sealing lid
(See Sht. No. 8)

Sta 44+10.54
MH 14

Sta ~~45+27.72~~ 48+71.95
Const. MH 15
Type S
W/ self-sealing lid
(See Sht. No. 8)

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

HARRY STREET

Remove and reset Fence as required

Spring Branch

Baseline "900"

910+00

Barb Wire Fence

Identical Point

Temp. Const. Esmt. 40' 30' 20' 10'

Main No. 1

San. Sew.

CAUTION!! Buried Utilities

Temp. 908+30.67
B "900" Sta ~~908+00.00~~
~~100.00~~ Right
98.25'

Const. Esmt. 496.26
Install ~~497.63~~ L.F. 30" PLRCP

102+95.72
B "100" Sta 102+00.00
9.25' Right
10.80

Temp. 102+95.72
B "100" Sta ~~103+00.00~~
9.25' Right
10.80

Const. Esmt. 460.04
Install ~~471.18~~ L.F. 30" PLRCP

107+60.12
B "100" Sta ~~107+99.86~~
~~72.8~~ Left
1.23

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

MICHAEL D. SCHUMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

MH 13
Top Elev. ~~1305.5~~ 1305.5
E out = ~~1294.61~~ 1294.61
E in = ~~1294.71~~ 1294.71

MH 14
Top Elev. ~~1309.5~~ 1309.0
E out = ~~1298.50~~ 1298.34
E in = ~~1298.60~~ 1298.02

MH 15
Top Elev. ~~1312.2~~ 1315.0
E out = ~~1301.12~~ 1301.15
E in = ~~1301.22~~ 1301.20

Existing Ground

496.26
~~497.63~~ L.F. 30" PLRCP
@ 0.45 %

460.04
~~471.18~~ L.F. 30" PLRCP
@ 0.45 %

AS CONSTRUCTED
PROJ. ENG. DPA DATE 3-31-88
RES. ENG. LPC DATE 3-31-88

1320 1315 1310 1305 1300 1295 1290 1285 1280

39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by RDM, LMM, RPS | Job No. 84-86254-1
Drawn by TC, GM | Date February, 1986

SEDGWICK COUNTY, BUREAU OF PUBLIC SERVICES
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

INTERCEPTOR A
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"

Sht. 16 of 36

Shaded area indicates limits of existing pavement to be removed and replaced. Approximately 5,950 sq. yds. See detail, sht. no. 9 (Above quantity represents total removal and replacement for 127th St. East and East Lynne Avenue as shown on sheet no's. 17, 18 and 19.)

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

HARRY STREET

48+77.95 Sta ~~48+87.72~~ MH 15

CAUTION!! Continental Pipeline

49+63.55 (Bk) (Ah.) Sta ~~49+67.68~~ Const. MH 16 Type B (See Sht No. 9)

Main No. 4 (Future)

Sta 50+01.00 Const. MH 17 Type A, 5' dia.

Sta 62+74.81 Const. MH 18 Type C, 6' dia.

Sta 80+00.00 Const. MH 19 Type C, 5' dia.

Remove and reset 30" RCP as required

Sta 87+32.07 Const. MH 20 Type A, 5' dia.

Main No. 4

Main No. 5 (Future)

Main No. 7

Install 1-12"S Stub and Plug

Install 1-15" Stub and Plug

107+60.12

8"100" Sta ~~107+60.85~~ 7.60' Left 1.23'

89.02 Install ~~77.88~~ L.F. 30" PLRCP

40' Temp. Const. Esmt.

60' San. Sew. Esmt.

Main No. 6

EAST 12TH ST. EAST

108+49.44

8"100" Sta ~~108+47.88~~ at ℄ 1.56' Left

92.98 Install ~~96.06~~ L.F. 27" Pipe

110+60

215.99 Install ~~213.15~~ L.F. 27" Pipe

8"100" Sta 111+63.35 30.00' Right

109+39.28

8"100" Sta ~~100+40.00~~ ~~E2.00~~' Left 25.57'

EAST LYNNE ADDITION

Lateral No. 1 East Lynne Lat. Sew. Dist. (Future)

Plug and Stake end of Pipe (See detail, Sht. No. 9)

Install 400.0 L.F. 8" Pipe @ 1.50 % ℄ end of Pipe = 1311.26

8"100" Sta 115+14.38 30.00 Right

LYNNE ADDITION

Lateral No. 2 East Lynne Lat. Sew. Dist. (Future)

Install 400.0 L.F. 8" Pipe @ 2.20% ℄ end of Pipe = 1311.90

Install ~~96.06~~ 99.37 L.F. 27" Pipe

Plug and Stake end of Pipe (See detail Sht. No. 9)

116+10.98

8"100" Sta ~~116+12.00~~ 15.00' Left 15.40

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

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

MH 15 Top Elev. = ~~1315.0~~ 1315.0
MH 16 Top Elev. = ~~1315.5~~ 1315.8
MH 17 Top Elev. = ~~1316.2~~ 1316.3
MH 18 Top Elev. = 1320.0
MH 19 Top Elev. = ~~1316.8~~ 1316.9
MH 20 Top Elev. = 1316.0

Existing Ground

1310.27 ℄ IN = ~~1311.00~~ (8") from 8" line (N)

1310.86 ℄ IN = ~~1311.10~~ (8") from 8" line (N)

1310.93 ℄ IN = ~~1302.97~~ (12") from Main No. 4

℄ IN = 1302.72 (15") from Main No. 5

Steel Encasement 86' x 46'

Existing 30" RCP

89.02 ~~77.88~~ L.F. 30" PLRCP @ 0.45 %
℄ OUT = 1301.15
℄ IN = 1301.20

92.98 ~~96.06~~ L.F. 27" Pipe @ 0.09 %
℄ OUT = ~~1301.42~~ 1301.10
℄ IN = ~~1301.72~~ 1301.61

215.99 ~~213.15~~ L.F. 27" Pipe @ 0.09 %
℄ OUT = 1301.71
℄ IN = 1301.75

358.17 ~~358.99~~ L.F. 27" Pipe @ 0.09 %
℄ OUT = 1301.86
℄ IN = 1302.08

99.38 ~~99.17~~ L.F. 27" Pipe @ 0.09 %
℄ OUT = 1302.61
℄ IN = 1302.39

℄ OUT = ~~1302.41~~ 1302.25
℄ IN = 1302.41

1325 1320 1315 1310 1305 1300 1295 1290 1285

48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

AS CONSTRUCTED
PROJ. ENG. _____ DATE _____
RES. ENG. LDC DATE 5-31-88

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-85254-1
Date February, 1986
Designed by RDM, LLM, RMS
Drawn by TC, GM

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

INTERCEPTOR A

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"

Sht. 17 of 36

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

Sta. 57+32.97
MH 20

Sta. 59+93.99
Const. MH 21
Type A, 5'dia.

Sta. 61+17.37
Const. MH 22
Type C, 5'dia.

Remove and reset 18" RCP as required

Remove and reset 2-12" RCP as required

66+24.15
Sta. ~~60+22.78~~
Const. MH 23
Type C, 5'dia.

EAST Lynne No. 1

Baseline "100

Temp. 40' Const. Easmt.

LYNNE Easmt.

EAST

LYNNE

MELODY LANE

ADDITION

Lateral No. 1 East Lynne Lat Sew. Dist.

Lateral No. 2 East Lynne Lat Sew. Dist.

Lateral No. 3 East Lynne Lat Sew. Dist. (Future)

Lateral No. 4 East Lynne Lat Sew. Dist. (Future)

Main No. 17

Baseline

Temp. Const. Easmt.

Existing 18" RCP

Existing 21" RCP

Existing 24" RCP

Existing 30" RCP

Existing 36" RCP

Existing 42" RCP

Existing 48" RCP

Existing 54" RCP

Existing 60" RCP

Existing 66" RCP

Existing 72" RCP

Existing 78" RCP

Existing 84" RCP

Existing 90" RCP

Existing 96" RCP

Existing 102" RCP

Existing 108" RCP

Existing 114" RCP

Existing 120" RCP

Existing 126" RCP

Existing 132" RCP

Existing 138" RCP

Existing 144" RCP

Existing 150" RCP

Existing 156" RCP

Existing 162" RCP

Existing 168" RCP

Existing 174" RCP

Existing 180" RCP

Existing 186" RCP

Existing 192" RCP

Existing 198" RCP

Existing 204" RCP

Existing 210" RCP

Existing 216" RCP

Existing 222" RCP

Existing 228" RCP

Existing 234" RCP

Existing 240" RCP

Existing 246" RCP

Existing 252" RCP

Existing 258" RCP

Existing 264" RCP

Existing 270" RCP

Existing 276" RCP

Existing 282" RCP

Existing 288" RCP

Existing 294" RCP

Existing 300" RCP

Existing 306" RCP

Existing 312" RCP

Existing 318" RCP

Existing 324" RCP

Existing 330" RCP

Existing 336" RCP

Existing 342" RCP

Existing 348" RCP

Existing 354" RCP

Existing 360" RCP

Existing 366" RCP

Existing 372" RCP

Existing 378" RCP

Existing 384" RCP

Existing 390" RCP

Existing 396" RCP

Existing 402" RCP

Existing 408" RCP

Existing 414" RCP

Existing 420" RCP

Existing 426" RCP

Existing 432" RCP

Existing 438" RCP

Existing 444" RCP

Existing 450" RCP

Existing 456" RCP

Existing 462" RCP

Existing 468" RCP

Existing 474" RCP

Existing 480" RCP

Existing 486" RCP

Existing 492" RCP

Existing 498" RCP

Existing 504" RCP

Existing 510" RCP

Existing 516" RCP

Existing 522" RCP

Existing 528" RCP

Existing 534" RCP

Existing 540" RCP

Existing 546" RCP

Existing 552" RCP

Existing 558" RCP

Existing 564" RCP

Existing 570" RCP

Existing 576" RCP

Existing 582" RCP

Existing 588" RCP

Existing 594" RCP

Existing 600" RCP

Existing 606" RCP

Existing 612" RCP

Existing 618" RCP

Existing 624" RCP

Existing 630" RCP

Existing 636" RCP

Existing 642" RCP

Existing 648" RCP

Existing 654" RCP

Existing 660" RCP

Existing 666" RCP

Existing 672" RCP

Existing 678" RCP

Existing 684" RCP

Existing 690" RCP

Existing 696" RCP

Existing 702" RCP

Existing 708" RCP

Existing 714" RCP

Existing 720" RCP

Existing 726" RCP

Existing 732" RCP

Existing 738" RCP

Existing 744" RCP

Existing 750" RCP

Existing 756" RCP

Existing 762" RCP

Existing 768" RCP

Existing 774" RCP

Existing 780" RCP

Existing 786" RCP

Existing 792" RCP

Existing 798" RCP

Existing 804" RCP

Existing 810" RCP

Existing 816" RCP

Existing 822" RCP

Existing 828" RCP

Existing 834" RCP

Existing 840" RCP

Existing 846" RCP

Existing 852" RCP

Existing 858" RCP

Existing 864" RCP

Existing 870" RCP

Existing 876" RCP

Existing 882" RCP

Existing 888" RCP

Existing 894" RCP

Existing 900" RCP

Existing 906" RCP

Existing 912" RCP

Existing 918" RCP

Existing 924" RCP

Existing 930" RCP

Existing 936" RCP

Existing 942" RCP

Existing 948" RCP

Existing 954" RCP

Existing 960" RCP

Existing 966" RCP

Existing 972" RCP

Existing 978" RCP

Existing 984" RCP

Existing 990" RCP

Existing 996" RCP

Existing 1002" RCP

Existing 1008" RCP

Existing 1014" RCP

Existing 1020" RCP

Existing 1026" RCP

Existing 1032" RCP

Existing 1038" RCP

Existing 1044" RCP

Existing 1050" RCP

Existing 1056" RCP

Existing 1062" RCP

Existing 1068" RCP

Existing 1074" RCP

Existing 1080" RCP

Existing 1086" RCP

Existing 1092" RCP

Existing 1098" RCP

Existing 1104" RCP

Existing 1110" RCP

Existing 1116" RCP

Existing 1122" RCP

Existing 1128" RCP

Existing 1134" RCP

Existing 1140" RCP

Existing 1146" RCP

Existing 1152" RCP

Existing 1158" RCP

Existing 1164" RCP

Existing 1170" RCP

Existing 1176" RCP

Existing 1182" RCP

Existing 1188" RCP

Existing 1194" RCP

Existing 1200" RCP

Existing 1206" RCP

Existing 1212" RCP

Existing 1218" RCP

Existing 1224" RCP

Existing 1230" RCP

Existing 1236" RCP

Existing 1242" RCP

Existing 1248" RCP

Existing 1254" RCP

Existing 1260" RCP

Existing 1266" RCP

Existing 1272" RCP

Existing 1278" RCP

Existing 1284" RCP

Existing 1290" RCP

Existing 1296" RCP

Existing 1302" RCP

Existing 1308" RCP

Existing 1314" RCP

Existing 1320" RCP

Existing 1326" RCP

Existing 1332" RCP

Existing 1338" RCP

Existing 1344" RCP

Existing 1350" RCP

Existing 1356" RCP

Existing 1362" RCP

Existing 1368" RCP

Existing 1374" RCP

Existing 1380" RCP

Existing 1386" RCP

Existing 1392" RCP

Existing 1398" RCP

Existing 1404" RCP

Existing 1410" RCP

Existing 1416" RCP

Existing 1422" RCP

Existing 1428" RCP

Existing 1434" RCP

Existing 1440" RCP

Existing 1446" RCP

Existing 1452" RCP

Existing 1458" RCP

Existing 1464" RCP

Existing 1470" RCP

Existing 1476" RCP

Existing 1482" RCP

Existing 1488" RCP

Existing 1494" RCP

Existing 1500" RCP

Existing 1506" RCP

Existing 1512" RCP

Existing 1518" RCP

Existing 1524" RCP

Existing 1530" RCP

Existing 1536" RCP

Existing 1542" RCP

Existing 1548" RCP

Existing 1554" RCP

Existing 1560" RCP

Existing 1566" RCP

Existing 1572" RCP

Existing 1578" RCP

Existing 1584" RCP

Existing 1590" RCP

Existing 1596" RCP

Existing 1602" RCP

Existing 1608" RCP

Existing 1614" RCP

Existing 1620" RCP

Existing 1626" RCP

Existing 1632" RCP

Existing 1638" RCP

Existing 1644" RCP

Existing 1650" RCP

Existing 1656" RCP

Existing 1662" RCP

Existing 1668" RCP

Existing 1674" RCP

Existing 1680" RCP

Existing 1686" RCP

Existing 1692" RCP

Existing 1698" RCP

Existing 1704" RCP

Existing 1710" RCP

Existing 1716" RCP

Existing 1722" RCP

Existing 1728" RCP

Existing 1734" RCP

Existing 1740" RCP

Existing 1746" RCP

Existing 1752" RCP

Existing 1758" RCP

Existing 1764" RCP

Existing 1770" RCP

Existing 1776" RCP

Existing 1782" RCP

Existing 1788" RCP

Existing 1794" RCP

Existing 1800" RCP

Existing 1806" RCP

Existing 1812" RCP

Existing 1818" RCP

Existing 1824" RCP

Existing 1830" RCP

Existing 1836" RCP

Existing 1842" RCP

Existing 1848" RCP

Existing 1854" RCP

Existing 1860" RCP

Existing 1866" RCP

Existing 1872" RCP

Existing 1878" RCP

Existing 1884" RCP

Existing 1890" RCP

Existing 1896" RCP

Existing 1902" RCP

Existing 1908" RCP

Existing 1914" RCP

Existing 1920" RCP

Existing 1926" RCP

Existing 1932" RCP

Existing 1938" RCP

Existing 1944" RCP

Existing 1950" RCP

Existing 1956" RCP

Existing 1962" RCP

Existing 1968" RCP

Existing 1974" RCP

Existing 1980" RCP

Existing 1986" RCP

Existing 1992" RCP

Existing 1998" RCP

Existing 2004" RCP

Existing 2010" RCP

Existing 2016" RCP

Existing 2022" RCP

Existing 2028" RCP

Existing 2034" RCP

Existing 2040" RCP

Existing 2046" RCP

Existing 2052" RCP

Existing 2058" RCP

Existing 2064" RCP

Existing 2070" RCP

Existing 2076" RCP

Existing 2082" RCP

Existing 2088" RCP

Existing 2094" RCP

Existing 2100" RCP

Existing 2106" RCP

Existing 2112" RCP

Existing 2118" RCP

Existing 2124" RCP

Existing 2130" RCP

Existing 2136" RCP

Existing 2142" RCP

Existing 2148" RCP

Existing 2154" RCP

Existing 2160" RCP

Existing 2166" RCP

Existing 2172" RCP

Existing 2178" RCP

Existing 2184" RCP

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Existing 7638" RCP

Existing 7644" RCP

Existing 7650" RCP

Existing 7656" RCP

Existing 7662" RCP

Existing 7668" RCP

Existing 7674" RCP

Existing 7680" RCP

Existing 7686" RCP

Existing 7692" RCP

Existing 7698" RCP

Existing 7704" RCP

Existing 7710" RCP

Existing 7716" RCP

Existing 7722" RCP

Existing 7728" RCP

Existing 7734" RCP

Existing 7740" RCP

Existing 7746" RCP

Existing 7752" RCP

Existing 7758" RCP

Existing 7764" RCP

Existing 7770" RCP

Existing 7776" RCP

Existing 7782" RCP

Existing 7788" RCP

Existing 7794" RCP

Existing 7800" RCP

Existing 7806" RCP

Existing 7812" RCP

Existing 7818" RCP

Existing 7824" RCP

Existing 7830" RCP

Existing 7836" RCP

Existing 7842" RCP

Existing 7848" RCP

Existing 7854" RCP

Existing 7860" RCP

Existing 7866" RCP

Existing 7872" RCP

Existing 7878" RCP

Existing 7884" RCP

Existing 7890" RCP

Existing 7896" RCP

Existing 7902" RCP

Existing 7908" RCP

Existing 7914" RCP

Existing 7920" RCP

Existing 7926" RCP

Existing 7932" RCP

Existing 7938" RCP

Existing 7944" RCP

Existing 7950" RCP

Existing 7956" RCP

Existing 7962" RCP

Existing 7968" RCP

Existing 7974" RCP

Existing 7980" RCP

Existing 7986" RCP

Existing 7992" RCP

Existing 7998" RCP

Existing 8004" RCP

Existing 8010" RCP

Existing 8016" RCP

Existing 8022" RCP

Existing 8028" RCP

Existing 8034" RCP

Existing 8040" RCP

Existing 8046" RCP

Existing 8052" RCP

Existing 8058" RCP

Existing 8064" RCP

Existing 8070" RCP

Existing 8076" RCP

Existing 8082" RCP

Existing 8088" RCP

Existing 8094" RCP

Existing 8100" RCP

Existing 8106" RCP

Existing 8112" RCP

Existing 8118" RCP

Existing 8124" RCP

Existing 8130" RCP

Existing 8136" RCP

Existing 8142" RCP

Existing 8148" RCP

Existing 8154" RCP

Existing 8160" RCP

Existing 8166" RCP

Existing 8172" RCP

Existing 8178" RCP

Existing 8184" RCP

Existing 8190" RCP

Existing 8196" RCP

Existing 8202" RCP

Existing 8208" RCP

Existing 8214" RCP

Existing 8220" RCP

Existing 8226" RCP

Existing 8232" RCP

Existing 8238" RCP

Existing 8244" RCP

Existing 8250" RCP

Existing 8256" RCP

Existing 8262" RCP

Existing 8268" RCP

Existing 8274" RCP

Existing 8280" RCP

Existing 8286" RCP

Existing 8292" RCP

Existing 8298" RCP

Existing 8304" RCP

Existing 8310" RCP

Existing 8316" RCP

Existing 8322" RCP

Existing 8328" RCP

Existing 8334" RCP

Existing 8340" RCP

Existing 8346" RCP

Existing 8352" RCP

Existing 8358" RCP

Existing 8364" RCP

Existing 8370" RCP

Existing 8376" RCP

Existing 8382" RCP

Existing 8388" RCP

Existing 8394" RCP

Existing 8400" RCP

Existing 8406" RCP

Existing 8412" RCP

Existing 8418" RCP

Existing 8424" RCP

Existing 8430" RCP

Existing 8436" RCP

Existing 8442" RCP

Existing 8448" RCP

Existing 8454" RCP

Existing 8460" RCP

Existing 8466" RCP

Existing 8472" RCP

Existing 8478" RCP

Existing 8484" RCP

Existing 8490" RCP

Existing 8496" RCP

Existing 8502" RCP

Existing 8508" RCP

Existing 8514" RCP

Existing 8520" RCP

Existing 8526" RCP

Existing 8532" RCP

Existing 8538" RCP

Existing 8544" RCP

Existing 8550" RCP

Existing 8556" RCP

Existing 8562" RCP

Existing 8568" RCP

Existing 8574" RCP

Existing 8580" RCP

Existing 8586" RCP

Existing 8592" RCP

Existing 8598" RCP

Existing 8604" RCP

HARRY STREET

66+24.15
Sta ~~00+22.38~~
MH 23

68+37.31
Sta 68+30.58
Const MH 24
Type A, 5' dia.

70+42.09
Sta 70+40.73
Const MH 25
Type C, 5' dia.

71+60 to Sta ~~72+20~~
Const 60 L.F. 27"
Concrete Encasement
See Specifications

72+51

Remove and reset
Fence as required

72+83.63
Sta ~~72+85.50~~
Const MH 26
Type A, 5' dia.
w/self-sealing lid

Sta 74+00.89
Const MH 27
Type A, 5' dia.
w/self-sealing lid

Sta 76+04.78
Const MH 28
Type A, 5' dia.
w/self-sealing lid

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

Remove and reset
Fence as required

LYNNE

AVE. 120.00 241.12
Install ~~240.00~~ L.F.
27" Pipe

Install 40.00 L.F.
8" Pipe @ 3.10%
to end of Pipe in MH 24

Plug and Stake end of pipe
(See detail, Sht No. 9)

Remove and replace
CG, SY Unpaved drive
(See detail, Sht No. 9)

Main No. 17

EAST

Baseline "100"

Const.

Easmt.

Temp. Easmt.

Pump Station
w/ Elec. Service

Trash Enclosure

Bryan Hill Addition

Boyd Addition

Bryan Addition

10 Arborvitaes

Electric Box

Gas Meter

Telephone Pedestal

Cable TV Pedestal

Concrete Wall

Chain Link Fence

Wood Fence

Stone Wall

Overhead Wires

Underground Gas Line

Underground Electric Line

Underground Telephone Line

Underground Cable TV Line

Storm Sewer

Sanitary Sewer

Water Line

Fire Hydrant

Gate Valve

Manhole

Catch Basin

Inlet

Curb Inlet

Concrete Pavement

Asphalt Pavement

Gravel Drive

Existing Contours

Proposed Contours

Trees

Shrubs

Bushes

Grass

Fence

Property Line

Building

Lot Line

Right-of-Way

Section Line

Quarter Section Line

Sixteenth Section Line

Center Line

Easement Line

Section 6246

125+02.96
℄ "100" Sta ~~125+00.00~~
1.00' Right
2.22' Left

214.76
Install ~~213.80~~ L.F.
27" Pipe

127+16.88
℄ "100" Sta ~~127+15.00~~
17.00' Left
21.36'

202.50
Install ~~204.15~~ L.F.
27" Pipe

129+19.38
℄ "100" Sta ~~129+10.00~~
~~6.50~~ Right
1.21' Left

℄ "100" Sta 129+23.50
41.07' Right

131+54.11
℄ "100" Sta ~~131+55.00~~
~~50.00~~ Left
50.79'

209.86
Install ~~208.39~~ L.F.
27" Pipe

203.05
Install ~~203.39~~ L.F.
27" Pipe

℄ "100" Sta ~~133+35.00~~
~~56.00~~ Right
54.39'

℄ "100" Sta ~~135+37.35~~
~~80.00~~ Right
80.63'

135+31.89

Lateral No. 5 East Lynne Lat. Sew. Dist.
(Future)

Lateral No. 6 East Lynne Lat. Sew. Dist.
(Future)

ADDITION

ORIGINAL SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC.

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

MH 23 Top Elev. ~~1317.5~~ 1317.4
MH 24 Top Elev. ~~1318.2~~ 1316.9
MH 25 Top Elev. ~~1318.2~~ 1317.6
MH 26 Top Elev. ~~1314.6~~ 1313.6
MH 27 Top Elev. ~~1314.6~~ 1314.5
MH 28 Top Elev. ~~1315.5~~ 1314.8

Existing Ground

1311.62
℄ IN = ~~1311.94~~ (8")
from 8" line (N)

1308.96
℄ IN = ~~1309.00~~ (8")
from 8" line (N)

27" Concrete Encasement
60' (Mod. #2)
30'
72+51
71+60 ~~71+80~~
72+42 ~~72+20~~

Type III Backfill 60'
63' Type III Backfill (Mod #2)

012 013 014 015

1325 1320 1315 1310 1305 1300 1295 1290 1285

66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00

℄ Out = 1303.00 ~~1302.21~~
℄ IN = 1303.17
214.76 ~~213.80~~ L.F. 27" Pipe @ 0.09 %

℄ Out = 1303.47 ~~1303.40~~
℄ IN = 1303.52
202.50 ~~204.15~~ L.F. 27" Pipe @ 0.09 %

℄ Out = 1303.68 ~~1303.59~~
℄ IN = 1303.62
241.12 ~~241.77~~ L.F. 27" Pipe @ 0.15 %

℄ Out = 1303.92 ~~1303.95~~
℄ IN = 1304.05 ~~1303.78~~
209.86 ~~208.39~~ L.F. 27" Pipe @ 0.15 %

℄ Out = 1304.24 ~~1304.16~~
℄ IN = 1304.29
203.05 ~~203.89~~ L.F. 27" Pipe @ 0.15 %

℄ Out = 1304.63 ~~1304.62~~
℄ IN = 1304.52

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 2-23-88
RES. ENG. J DC DATE 3-31-88

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER
DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER
RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-86254-1
Date February, 1986
Designed by RDM, LMM, RFT
Drawn by TC, GM

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
FOR BOARD OF PUBLIC WORKS
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT
INTERCEPTOR A
PART "A"

Sht. 19 of 36

HARRY STREET

Sta. 79+66.48
Const. MH 29
Type C, 5' dia.
w/self-sealing lid

Sta. 79+04.78
MH 28

Main No. 6
(Future)

Install 1-15" Stub and Plug

Sta. 80+00 to Sta. 80+60
Const. 60 L.F. 24"
Concrete Encasement
See Specifications

Sta. 84+41.48
Const. MH 30
Type A, 5' dia.

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

Main No. 17

Baseline "100"

Baseline "200"

Temp. Const. Easmt.

Perm. Easmt.

Sewer

137+97.53
Ø"100" Sta. ~~137+08.70~~
~~3.03~~ Right
271.08 6.40'

Install ~~271.70~~ L.F.
27" Pipe

Remove and Reset
Fence as required

476.42
Install ~~476.00~~ L.F.
24" Pipe

204+67.88
Ø"200" Sta. ~~204+00.22~~
~~67.27~~ Right
26.93'

133+36.80
Ø"100" Sta. ~~133+37.20~~
~~80.00~~ Right
80.66'

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

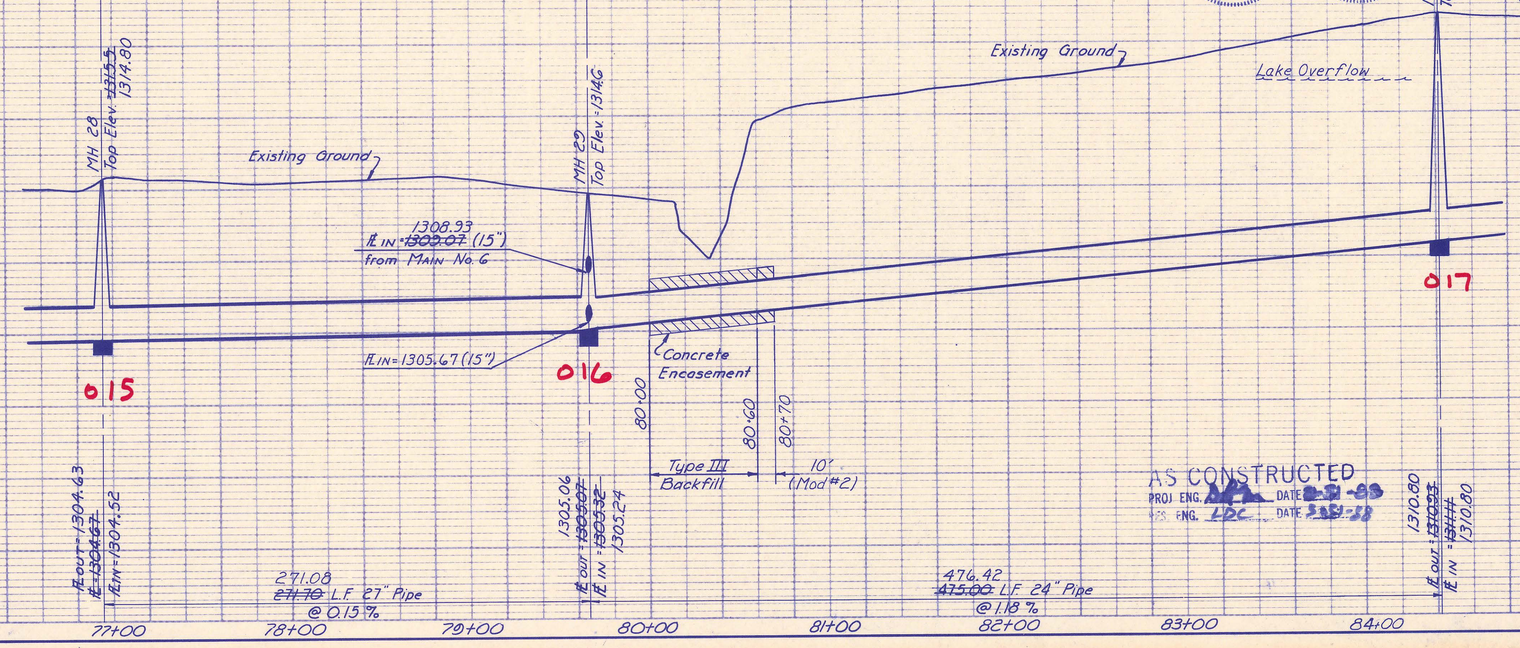
Section 6246

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER



AS CONSTRUCTED
PROJ ENG. [signature] DATE 8-31-88
RES ENG. LDC DATE 8-31-88

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

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"
INTERCEPTOR A

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by RDM/LMR/FJ
Drawn by TC/GM
Job No. 34-85254-1
Date February, 1986

Sht. 20 of 36

Sta. 84+41.48
MH 30

Sta. 88+33.44
Const. MH 31
Type A, 5' dia.
w/self-sealing lid

Sta. 90+40.37
Const. MH 32
Type A, 5' dia.

Sta. 93+76.83
Const. MH 33
Type A, 5' dia.

CAUTION!!
Gas Pipeline

Baseline "200"

Main No. 17

10' Esmt.

30'

40'

San.

Temp.

Const.

Sewer

Esmt.

Jason Olives

Jason Olive

202 203 204 205.00 206 207 208 208+09.68 209 210+00 211 212 213 214 215.00

℄ "200", Sta. ~~208+18.00~~ ~~150.00~~' Left
159.23'

℄ "200", Sta. ~~212+40.00~~ ~~150.00~~' Left
149.30'

204+67.88
℄ "200", Sta. ~~204+00.00~~ ~~28.27~~' Right
26.93'

389.19
Install ~~391.96~~ L.F. 24" Pipe

213.50
Install ~~215.33~~ L.F. 24" Pipe

209+54.00
℄ "200", Sta. ~~209+55.00~~ on ℄
1.89 Left

327.11
Install ~~327.46~~ L.F. 24" Pipe

212+46.01

℄ Gas Esmt. 20' Northwest Central Pipeline Company Abandoned 20" Pipeline

+27 +52

Abandon 20" Pipe

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

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

WINDSOR PARK ADDITION

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

MH 30 Top Elev. ~~1326.8~~ 1327.9
MH 31 Top Elev. ~~1326.9~~ 1323.15
MH 32 Top Elev. ~~1326.6~~ 1327.9
MH 33 Top Elev. ~~1324.5~~ 1324.8

Existing Ground

Lake Overflow 1322.30

20" Northwest Central Pipeline
Sta. 92+27.4 ±
Sta. 92+42.4

22" Cln.
16" Cln.

017 018 019 020

I.E. out = ~~1310.93~~ 1311.11
I.E. in = ~~1310.93~~ 1311.11

I.E. out = ~~1311.70~~ 1311.90
I.E. in = ~~1311.70~~ 1311.90

I.E. out = ~~1312.13~~ 1312.70
I.E. in = ~~1312.23~~ 1312.70

I.E. ~~1312.74~~ 1312.80

399.19
~~391.96~~ L.F. 24" Pipe @ 0.15%

213.50
~~215.33~~ L.F. 24" Pipe @ 0.15%

327.11
~~327.46~~ L.F. 24" Pipe @ 0.15%

1330 1325 1320 1315 1310 1305 1300 1295 1290

85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00

Section 6246

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE [illegible]
RES. ENG. LDC DATE 5-31-84

5-31-84

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY LICEN. ED 8281 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-85854-1
Date Feb-uary-1986
Designed by KDM, LM, RFT
Drawn by JC, GM

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID A. BARFOOT, P.E.
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

INTERCEPTOR A
SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"

Sht. 21 of 36

Sta. 93+70.83
MH 33

Sta. 96+24.01
Const. MH 34
Type A, 5'dia.

98+20.67
Sta. ~~98+23.20~~
Const. MH 35
Type C, 5'dia.

101+40.89
Sta. ~~101+44.10~~
Const. MH 36
Type A, 5'dia.

104+58.73
Sta. ~~104+62.00~~
Const. MH 37
Type C, 5'dia.
w/self-sealing lid

Sta. 105+28.90
Const. MH 38
Type A, 5'dia.
w/self-sealing lid

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

MAIN No. 17

Install 247.18 L.F. 24" Pipe

Ø"200" Sta. 214+90.00 110.00' Left

Ø"200" Sta. 212+40.08 150.00 Left

Install 202.19 L.F. 24" Pipe

Install 1-8" Stub and Plug

Install 317.90 L.F. 24" Pipe

Install 317.90 L.F. 24" Pipe

Ø"200" Sta. 210+50.25 0.00" Right

Ø"200" Sta. 210+68.15 0.11' Right

Install 1-8" Stub and Plug

Ø"200" Sta. 222+88.00 6.16' Right

Ø"200" Sta. 223+88.00 5.00' Right

Install 66.90 L.F. 24" Pipe

Remove and reset Fence as required

Install 1-2-4" Stubs and plugs

Remove and reset Fence as required

LATERAL No. 6, Windsor Park Lat. Sew. Dist. Future

LATERAL No. 3, Windsor Park Lat. Sew. Dist. (Future)

WINDSOR PARK ADDITION

DOWELL TERRACE

Baseline "200"

Existing Ground

Lake Overflow 1322.3

Section 6246

	MH 33	MH 34	MH 35	MH 36	MH 37	MH 38
Top Elev.	1324.5	1327.0	1330.9	1329.0	1328.0	1322.0
Station	93+70.83	96+24.01	98+20.67	101+40.89	104+58.73	105+28.90
Invert	1312.72	1313.09	1313.39 / 1313.49	1313.97	1314.45	1314.55

1/4 IN = 1319.00 (8") from 8" Stub (E)

1/4 IN = 1319.0 from 2-4" Stubs (NE & NW)

1/4 IN = 1321.40 (8") from 8" Stub (N)

	Length	Slope
247.18 L.F. 24" Pipe	247.18	@ 0.15 %
202.19 L.F. 24" Pipe	202.19	@ 0.15 %
317.90 L.F. 24" Pipe	317.90	@ 0.15 %
317.90 L.F. 24" Pipe	317.90	@ 0.15 %
66.90 L.F. 24" Pipe	66.90	@ 0.15 %

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARNEY 828 KANSAS PROFESSIONAL ENGINEER

AS CONSTRUCTED
PROJ. ENG. DATE 3-31-86
RES. ENG. LDC DATE 3-31-86

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
RICHARD D. MARNEY, P.E.
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"
INTERCEPTOR A

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

Designed by RDM LM RFJ
Drawn by TC GM
Job No. 34-85354-1
Date February, 1986

Sht. 22 of 36

Sta. 105+28.90
MH 38

Sta. 106+00 to Sta. 106+30
Const. 30 L.F. 24"
Concrete Encasement
See Specifications

Sta. 108+66.05
Const. MH 39
Type B, 5' dia.

Sta. 109+62.33
Const. MH 40
Type C, 5' dia.
w/self-sealing lid

CAUTION!!
Buried Utilities

Sta. 109+57.18 (Bk.)
109+87.30 (Ah.)
Sta. 109+62.33
MH 40

Sta. 110+00 to Sta. 111+10
Const. 60 L.F. 21"
Concrete Encasement
See Specifications

Sta. 113+05.97
Const. MH 41
Type A, 5' dia.
w/self-sealing lid

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

WINDSOR PARK ADDITION

GREENWICH ROAD

DOWELL TERRACE

Main No. 7 (Future)

Main No. 17

Baseline "700"

Baseline "300"

Baseline "200"

Temp. Const. Easmt.

Const. Easmt.

10' Easmt.

20' Easmt.

Grove of Hillocks and Cottonwoods

Existing Trees

Fence

Drainage Structure

Clothes Line Pole

Utility Pole

Bench Mark

Identical Points

PI-18

PI-28

PI-31

PI-32

℄ "200" Sta 227+86.47
19.71' Right

℄ "200" Sta 227+91.75
19.71' Right

℄ "200" Sta 223+55.00
0.00' Right

℄ "200" Sta 226+92.25
100.0' Right

℄ "300" Sta 303+28.38
0.22' Left

Construct 96.28 L.F. Boring and Install 96.28 L.F. 36" Stl. Encmt. and 96.28 L.F. 24" D.I.P. (See detail, Sht. No. 9)

Install 337.09 L.F. 24" Pipe

Install 343.64 L.F. 21" Pipe

Install 1-15" Stub and Plug

Install V-8" Stub and Plug

Main No. 7 (Future)

Lateral No. 3 Windsor Park Lat. Sew. Dist. (Future)

Lateral No. 6 Windsor Park Lat. Sew. Dist. (Future)

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

AS CONSTRUCTED
PROJ. ENG. DLK DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

MICHAEL D. SCHUMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MARKLEY LICEN SED 8281 KANSAS PROFESSIONAL ENGINEER

MH 38 Top Elev. = 1328.00
MH 39 Top Elev. = 1331.7
MH 40 Top Elev. = 1329.2
MH 41 Top Elev. = 1330.5

Existing Ground

Existing 18" CMP

℄ IN = 1316.50 (8") from 8" Stub (N)

℄ IN = 1318.03 (15") from Main No. 7

℄ IN = 1318.03 (15") from Main No. 7

Concrete Encasement

106.00

106.30

110.60

111.10

Type "A" Backfill

℄ IN = 1315.55

℄ IN = 1315.05

℄ OUT = 1315.42
℄ IN = 1317.42

℄ OUT = 1317.42
℄ IN = 1317.42

℄ OUT = 1319.14
℄ IN = 1319.24

337.09 L.F. 24" Pipe @ 0.15 %

96.28 L.F. 24" DIP @ 0.38 %

343.64 L.F. 21" Pipe @ 0.50 %

1340
1335
1330
1325
1320
1315
1310
1305
1300

105+00 106+00 107+00 108+00 109+00 109+00 110+00 111+00 112+00 113+00

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by RDM LLM RFS
Drawn by TC, GM
Job No. 34-85554-1
Date February, 1986

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

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT
INTERCEPTOR A PART "A"

Sht. 23 of 36

SCALE
Plan - 1"=40'
Profile -
Horiz.- 1"=40'
Vert.- 1"=5'

104+58.79
Sta. ~~104+62.00~~
MH 37

108+55.90
Sta. ~~108+55.20~~
Const. MH 39
Type B, 5' dia.

109+57.18 (Bk.)
109+87.30 (Ab.)
Sta. 109+61.52
Const. MH 40
Type C, 5' dia.
w/self-sealing lid

104+90.00 106+00.00
Sta. ~~104+98.25~~ to Sta. ~~106+08.25~~
Const. 110 L.F. 24" Conc. Encasement
See Specifications

CAUTION !!
Buried Utilities

40' Temp. Construction Esmt.

30' Sanitary Sewer Easement

36" Cover (Fiber Optic)

319.14
Install ~~318.01~~ L.F.
21" Pipe

Install 1-8" Stub and Plug

Remove & Reset fence as required

397.42
Install ~~366.97~~ L.F.
24" Pipe

226+88.86
℄ "200" Sta. ~~226+83.79~~
14.95' Left

227+91.75
℄ "200" Ext. Sta. ~~227+90.68~~
4.94' Left

101.28
Construct ~~96.30~~ L.F. Boring and
Install ~~96.30~~ L.F. 36" Steel
Encasement and ~~96.30~~ L.F. 24"
D.I.P. (See detail, Sht. no. 9)

Install 1-18" Stub and Plug

DOWELL TERRACE

GREENWICH ROAD

Main No. 7
Future

Lateral No. 3, Windsor Park Lat. Sew. Dist.
Future

Lateral No. 2, Windsor Park Lat. Sew. Dist.
Future

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

MH 37
Top Elev. = 1338.6
Inv. Elev. = 1327.5

MH 39
Top Elev. = 1333.3

MH 40
Top Elev. = 1327.3

MH 41
Top Elev. = 1330.5

Exist. Ground

Concrete Encasement

110' Conc. Encasement
Type III Backfill

355 L.F. Type III Backfill

Type III Backfill

Steel Encasement 36"

Type III Backfill

Sta. 108+08.25

1317.34
R. IN = ~~1319.99~~ (15")
From Main No. 7

R. IN = 1314.40 (8")
From 8" Stub (N)

R = 1314.45

397.42
~~366.97~~ L.F. 24" Pipe
@ 0.16%

~~30.30~~ L.F. 24" Pipe
@ 0.16%

~~96.30~~ L.F. 24" Pipe
@ 0.38%

319.14
~~318.01~~ L.F. 21" Pipe
@ 0.50%

R. OUT = ~~1315.55~~
R. IN = ~~1315.40~~ 1316.02

R. OUT = 1315.40
R. IN = 1315.24 1314.40

1335
1330
1325
1320
1315
1310
1305
1300

104 105+00 106 107 108 109 110+00 111 112

AS CONSTRUCTED
PROJ. ENG. DVL DATE 3-31-06
RES. ENG. EDC DATE 3-31-06

Sta. 113+05.97
MH 41

Remove and reset fence as required

40'

Temp

30'

Baseline "300"

304

10'

305+00.00

8" Tree

306

307

Sew.

308

309

310+80

311

312

313

Baseline "300"

314

Easmt.

Const.

Easmt.

MAIN No. 17

10'

40'

Temp

Const.

Easmt.

GREENWICH ROAD

12" W.L. 10" water line

MAIN No. 17

Grove of Mulberry and Cottonwoods

8" Tree

Sta. 117+76.50
Const. MH 42
Type A, 5' dia.
w/self-sealing lid

8" Cottonwood
6" Elm
24" Cottonwood
8" Elm
8" Elm
8" Elm

Sta 122+47.09
MH 43

Remove and reset fence as required

Sta 127+17.56
Const MH 44
Type A, 5' dia
w/ self-sealing lid

Sta 130+02.02
Const MH 45
Type A, 5' dia
w/ self-sealing lid

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

Temp. Const. Bond Line Esmt. Baseline 300

40' 30' 10' 10' 10' 10'

311 312 313 314 315+00 316 317 317+83 318 319 320+00 321 322 323

312+65.72
Ø"300" Sta ~~312+43.63~~
~~21.83~~' Left
22.15'

470.88
Install ~~470.53~~ L.F.
21" Pipe

317+28.82
Ø"300" Sta ~~317+27.00~~
~~35.00~~' Left
34.98'

375.25
Install ~~375.36~~ L.F.
21" Pipe

321+03.63
Ø"300" Sta ~~321+01.83~~
~~15.81~~' Left
15.42'

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER 1981. NO ADDITIONAL FIELD SURVEYING HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.

MH 43
Top Elev. ~~1335~~ 1331.6
Existing Ground
MH 44
Top Elev. ~~1336.2~~ 1336.2
Existing Ground
MH 45
Top Elev. ~~1336.5~~ 1336.8

Type III Backfill
Type III Backfill

Elev. 1345 1340 1335 1330 1325 1320 1315 1310 1305

Sta 122+00 123+00 124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00

Flow= ~~1322.32~~ 1322.29
Elev= 1322.33

470.88
~~470.53~~ L.F. 21" Pipe
@ 0.15 %

Flow= ~~1322.99~~ 1322.96
Elev= 1322.00

375.25
~~375.36~~ L.F. 21" Pipe
@ 0.15 %

Flow= ~~1323.62~~ 1323.59
Elev= 1323.61

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER
RICHARD D. MARLEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER
MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

AS CONSTRUCTED
PROJ. ENG. DLM DATE 3-31-82
RES. ENG. LDC DATE 3-31-82

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 31-85251-1
Date February, 1980
Designed by RDM LM RFT
Drawn by TC, GM

SEDGWICK COUNTY, BUREAU OF PUBLIC SERVICES
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT

INTERCEPTOR A
PART "A"

Sht. 25 of 36

Sta. 130+02.02
MH 45

Remove and replace 45.8' Unpaved road (See detail Sht. No. 2)

Sta. 134+68.28
Const. MH 46
Type A, 5' dia.
w/self-sealing lid

Sta. 137+83.20
Const. MH 46A
Type A, 5' dia.
W/ self-sealing lid

Sta. 140+38.18
Const. MH 47
~~Type C~~, 5' dia.
w/self-sealing lid

Chain link fc.

Conc. Block Bldg.

Install 1-6" Stub and Plug

Temp.

Const.

Eesmt.

Ses.

San.

Baseline

PT 324+00

PARK

Connect existing 21" VCP to MH 47 (See detail, Sht. No. 2)

MEADOW

10' Eesmt.

Fred Chance

Exist. 24" CP

ESTATES

8" 20' Proj. Eesmt.

Ø"3.00" Sta. ~~321+01.88~~ 321+03.63
~~150'~~ Left
15.42'

Install ~~378.36~~ 373.47 L.F. 21" Pipe

Ø"3.00" Sta. ~~324+70.65~~ 324+76.49
~~4.00'~~ Right
6.02'

Ø"3.00" Sta. ~~327+63.39~~ 327+61.79
5.00' Right
5.68'

284.41'
Install ~~285.00~~ L.F. 21" Pipe

Install 284.00 L.F. 21" Pipe

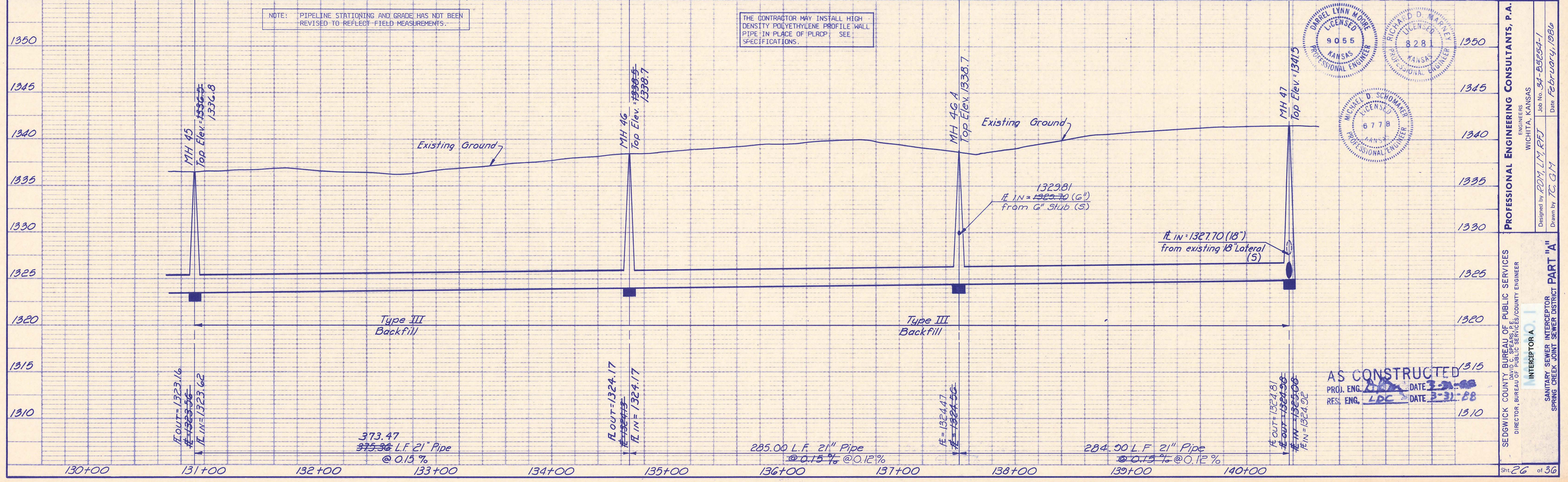
Ø"900" Ext. Sta. 330+47.20
5.05' Right

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

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.



DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MAHONEY LICENSED 828 KANSAS PROFESSIONAL ENGINEER

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

AS CONSTRUCTED
PROJ. ENG. [signature] DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by: RDM, LM, RDT
Drawn by: TC, GH
Job No. 34-B82541
Date February, 1986

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

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT
INTERCEPTOR A
PART "A"

Sht. 26 of 36

Sta. 140+38.18
MH 47

Force Main

Exist. 18" San. Sewer

10' Util. Esmt.

23 24 25 26

PARK

TODD PLACE

14 15 27

20' Util. Esmt.

8"300' Ext, Sta. 330+47.20, 5.05' Right

8"300' Sta. 332+47.20, 5.05' Right to 8"300', Sta. 333+71.88, On ℄ Remove 33.09 L.F. Existing 18" San. Sew. and 1 Existing Manhole

Main No. 12 Sew.

Exist. 18" San. Sewer

331 332 333

10' Esmt.

Force Main

40' Temp Comet Esmt.

MEADOW ESTATES

Install 331.09 L.F. 21" Pipe

29

Existing Lift Station, Generater and Force Main to be Abandoned and salvaged. (See detail, Sht. No. 10)

Exist. 10" San. Sewer

Exist. 12" San. Sewer

Exist. 8" Water Line

MHC

HARRY STREET

Sta. 143+60.27
Connect 21" Pipe to existing MH (See detail, Sht. No. 9)

8"300' Sta. 333+71.88 on ℄

Field Grades

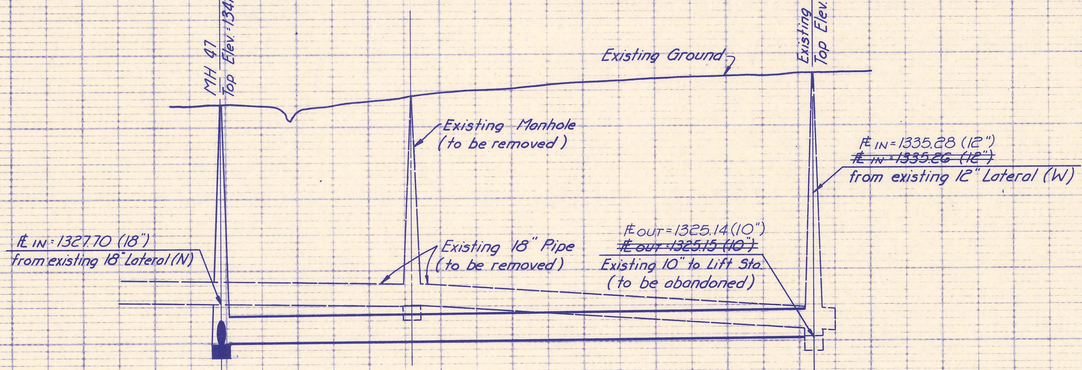
PIPE

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

ORIGINAL FIELD SURVEY TO DETERMINE EXISTING TOPOGRAPHY WAS PERFORMED IN SEPTEMBER, 1981. NO ADDITIONAL FIELD SURVEY HAS BEEN PERFORMED. BIDDER SHALL VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
ALL AERIAL PHOTO'S PROVIDED BY M.J. HARDEN ASSOCIATES, INC. FLOWN MARCH, 1981.

NOTE: PIPELINE STATIONING AND GRADE HAS NOT BEEN REVISED TO REFLECT FIELD MEASUREMENTS.

THE CONTRACTOR MAY INSTALL HIGH DENSITY POLYETHYLENE PROFILE WALL PIPE IN PLACE OF PLRCP. SEE SPECIFICATIONS.



DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

RICHARD D. MAHNEY LICENSED 8281 KANSAS PROFESSIONAL ENGINEER

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by RDM, LMM, RFT
Drawn by TC, GM
Job No. 34-85234-1
Date February 4, 1986

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DIVISION OF PUBLIC SERVICES/COUNTY ENGINEER
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SANITARY SEWER INTERCEPTOR
SPRING CREEK JOINT SEWER DISTRICT PART "A"
INTERCEPTOR A

Sht. 27 of 36

Scale: 1" = 50'

East Line, W 1/2, SE 1/4, Sec. 23, T 25 S, R 2 E

SE Cor. W 1/2, SE 1/4 Sec 23, T 27 S, R 2 E

South Line Sec. 23, T27S, R2E

Az=359°00'51.81" 415.0'

Az=359°00'51.81" 345.0'

Az=359°07'06.81" 864.33'

Az=359°07'06.81" 125.75'

Az=357°58'56.81" 365.00'

Az=357°58'56.81" 351.23'

Az=268°58'56.81" 126.42'

Az=265°07'10.11" 492.03'

Az=265°07'01.81" 358.0'

389,200 E

389,000 E

388,800 E

388,600 E

388,400 E

567,800 N

567,600 N

567,400 N

567,200 N

567,000 N

566,800 N

566,600 N

566,400 N

Pond No. 2
2.71 Acres @ Design Water Surface El 1291.0
Bottom El 1286.0
Total Volume = 4.0 MG @ 5.0' depth

Top of Dike El 1295.0

Pond No. 3
7.02 Acres @ Design Water Surface El 1296.0
Bottom El 1291.0
Total Volume = 10.4 MG @ 5.0' depth

Top of Dike El 1299.0

Pond No. 1
4.15 Acres @ Design Water Surface El 1291.0
Bottom El 1286.0
Total Volume = 6.3 MG @ 5.0' depth

NOTE:
Underground piping shall be PE-3406 plastic gas piping with heat fusion or compression fittings with built-in stiffeners and conforming to ASTM-D2513-73 or D2517-73. Install per manufacturers instructions. Bury with #18 copper tracer wire per code.

Abandon in place

8" CIP Pond Transfer Line

8" DIP Pond Transfer Line

8" DIP

2½" PVC

3" PVC

6" PVC Force Main (Exist.)

For Installation of Control Structure and Discharge Piping, See Sht. 32

For Installation of Aerators See Sht. 32

Abandon in place

Warning Light

Access Road

Sta. 0+00.00
566,717.26 N; 388,811.88 E
BEGIN FORCE MAIN CONSTRUCTION

Install 10.7 L.F. 10" DICL Force Main

Check Valve

Abandon in place

Lift Station Modification
See Details Shts. 29, 30 & 31

Install 294.6 L.F. 10" PVC Force Main

CAUTION 8" Pond Drain

8" CIP Pond Drain Line

Sta. 0+10.19
566,717.90 N; 388,801.69 E
Install 1-10" DICL MJ 45° Bend
1-10" DICL MJ 22 1/2° Bend
2'-10" DICL Pipe

Abandon in place

Install 10.2 L.F. 10" DICL Force Main

Install 361.9 L.F. 10" PVC Force Main

Sta. 6+66.67
567,273.95 N; 388,575.35 E
Install 1-10" DICL MJ 45° Bend

Sta. 3+04.78
566,812.10 N; 388,580.88 E
Install 1-10" DICL MJ 45° Bend

Sta. 6+76.99
567,281.15 N; 388,582.24 E
END FORCE MAIN CONSTRUCTION
Connect to Existing 8" DIP
See Detail Sht. 29

4" Vent Pipe
See Detail Sht. 29

Install 3" Plastic Gas Piping from Gas Meter to Standby Power Source.

Gas Meter

Gas Meter (By Others)

MARK SELECT

10" Sanitary Sewer

8" Sanitary Sewer

18" Sanitary Sewer

RESERVE A
A RESIDENT OPEN SPACE

MH

Note:
3" Gas (PE) 30"-36" Bury (Except: Gas goes Over Elec. & Under Tel. @ Gen. Set)
1" Control Conduit (PVC) @ 24" Bury
T (2 pr.) @ 12" Bury

8 -Denotes Property Corner

PROPERTY CORNER COORDINATES

1	566394.989733 N	389298.778395 E
2	567339.849917 N	389282.523202 E
3	567754.788517 N	389275.384678 E
4	567754.634634 N	389265.385862 E
5	567740.169632 N	388325.497165 E
6	566875.961908 N	388338.793237 E
7	566770.952606 N	388447.621356 E
8	566774.523738 N	388647.589471 E
9	566513.151088 N	388804.781512 E
10	566387.475~~8632~~ N	388806.785768 E
11	566354.995651 N	389299.466445 E
12	566347.480731 N	388807.403827 E

NOTE:
Force Main shall have a Minimum Depth of Bury of 4.5' unless shown otherwise.

AS CONSTRUCTED
PROJ. ENG. BDR DATE 3-31-88
DES. ENG. LDC DATE 5-31-88

PART C

BRUCE D. RENSBERGER LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

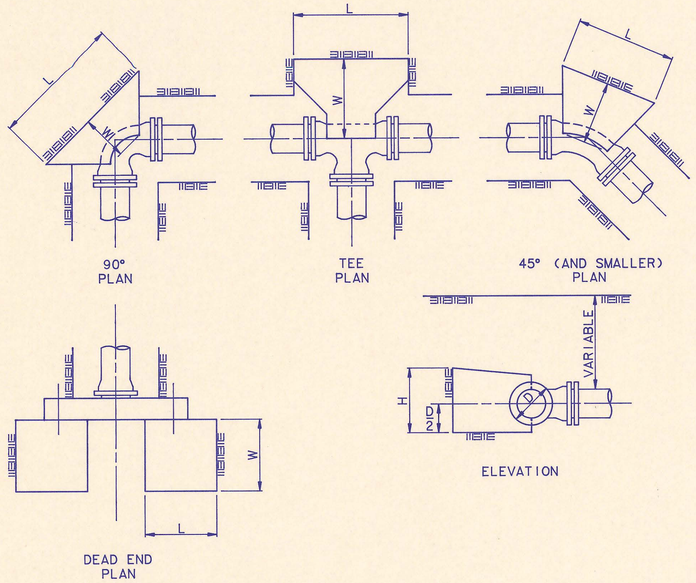
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

SITE PLAN

MODIFICATIONS TO EXISTING FACILITY
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by BDR	Job No. 34-85254-1	Sht. 28 of 36
Drawn by CAL	Date February, 1986	

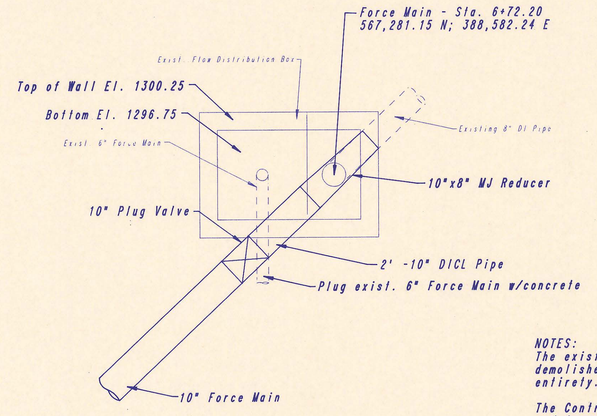


THRUST BLOCK DETAILS

THRUST BLOCK SCHEDULE				
LINE SIZE	FITTINGS & ANGLE θ	DIM. L	DIM. W	DIM. H
10"	90°	3.0'	2.0'	2.5'
10"	45°	3.0'	2.0'	2.0'
10"	22 1/2°	3.0'	2.0'	2.0'

TEMPORARY BYPASS PUMPING NOTES:

1. Prior to beginning work at the existing Lift Station. The Contractor shall provide to the Engineer, for approval, the following following information.
   a. A list of the proposed temporary pumping equipment.
   b. A construction schedule showing the order of completion for the work items and the estimated time for completion of each item.
2. The following conditions shall apply to the work of providing temporary bypass pumping at the Timber Lakes-Springdale Lift Station.
   a. The Contractor shall notify the Engineer at least 7 days prior to taking the Lift Station out of service.
   b. Two temporary pumps shall be provided by the contractor. Each pump shall be capable of delivering a minimum of 500 gallons per minute to Pond No. 3. Pumps shall be Diesel or Gasoline Powered.
   c. Pumps shall be monitored continuously during operation.
   d. Pumping shall be performed using the existing manhole immediately upstream of the Lift Station as a Wet Well.
   e. The Contractor shall organize the work in such a manner so that periods of temporary pumping are kept to a minimum length.

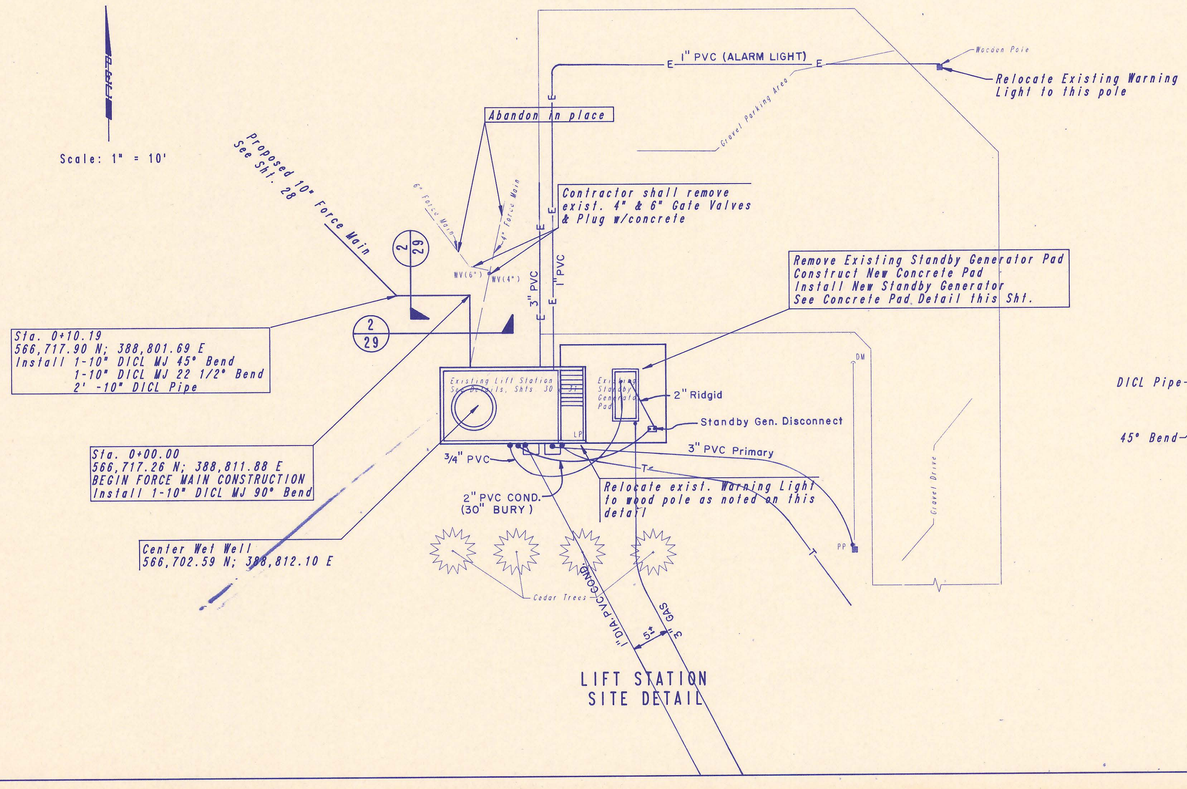


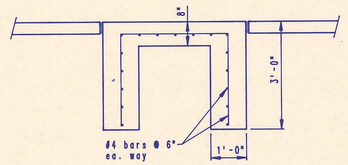
FORCE MAIN CONNECTION DETAIL
SCALE: 1" = 2'

NOTES:
The existing Flow Distribution Box shall be demolished and removed from the site in its entirety.

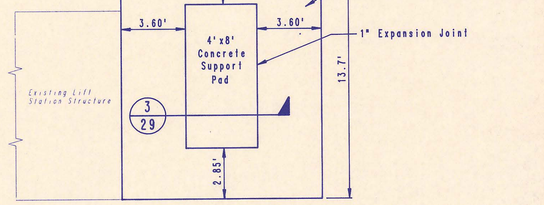
The Contractor shall determine the exact depth and location of the end of the 8" line to Pond No. 3 and shall adjust line and grade of the proposed 10" Force Main as required.

The Contractor may lower the water surface elevation as required to make the connection to the existing 8" DI Pipe. This action shall only be taken with the approval of the Engineer and only to the extent necessary.

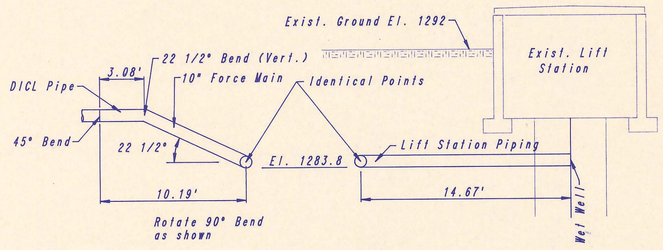




3/29 SECTION
Scale: 1/2" = 1'-0"



PLAN
STANDBY GENERATOR PAD DETAIL
Scale: 1/4" = 1'-0"



2/29 SECTION

1/29 SECTION

AS CONSTRUCTED
PROJ. ENG. ____ DATE 2-21-89
RES. ENG. LDC DATE 3-31-89

PART C

BRUCE D. REAVERS LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

DETAILS

MODIFICATIONS TO EXISTING FACILITY
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT

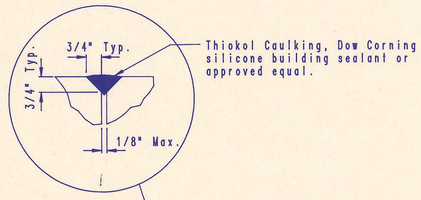
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by BDR	Job No. 34-85254-1	Sht. 29 of 36
Drawn by CAL	Date February, 1986	

Note:
Contractor shall reconnect existing
4" PVC Wet Well Vent.

Contractor shall seal roof sections
when set in position. See Details
this sheet.

3 section Removable Concrete Roof
Each Section 5'-3 7/8" x 10'-6" w/4
Lifting Hooks per Section.



Thiokol Caulking, Dow Corning
silicone building sealant or
approved equal.

El.1294.83

Caulking

El. 1292.67

℄ Standby Drive Unit

El. 1288.0

Bubbler Cleanout

8" Coupling

Existing 60" dia.
Wet Well

Relocate Ladder to Align with Manway
Mount to wall with Expansion Anchors

6" PVC Suction Piping

El. 1274.82
ALARM

El. 1273.82
H.L. ON

El. 1272.82
L.L. ON

El. 1272.82

Air Bubbler Line

El. 1269.82
L.L. & H.L. OFF

Air Bell

Place Grout

El. 1267.57

1.75:1

1.75:1

10"

3"

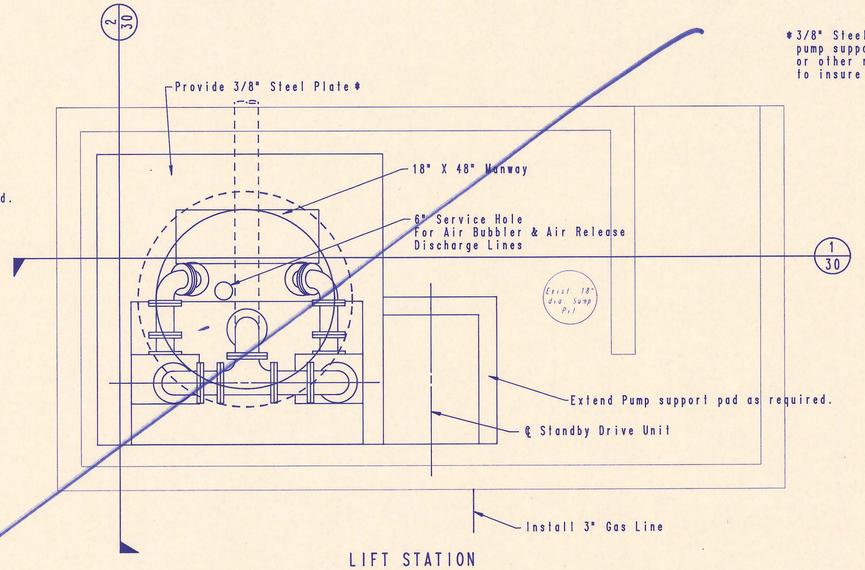
3'-0"

1/30 SECTION

Scale: 1/2" = 1'-0"

All openings through Floor Plate
shall be sealed w/Embeco grout
or equal after lines are installed.

NOTE:
All Interior & Exterior Concrete Walls shall receive
2 coatings of Acrylic Latex Paint. Walls shall receive
a General Surface Preparation Prior to Painting.



* 3/8" Steel Plate shall cover entire pump support pad. Broken down edges or other reinforcing shall be provided to insure rigid support.

LIFT STATION
PLAN VIEW
Scale: 1/2" = 1'-0"

Reconnect exist. 4" PVC
Wet Well Vent

Exist. Grade
El. 1292.0

Concrete Encasement
(Fill Entire Void)

8" Coupling

8"x10" Increasing
Check Valve

℄ El. 1283.8

Seal w/non-shrink grout

For Continuation of Lift
Station Piping
See Sheet 29

2/30 SECTION

Scale: 1/2" = 1'-0"

NOTES:

1. SEE SHEET 34 FOR EXISTING EQUIPMENT REMOVAL PLAN.
2. SEE SHEETS 35 & 36 FOR ELECTRICAL INSTALLATION REQUIRMENTS.
3. PUMP OPERATING CONDITIONS

MINIMUM FLOW AT MAXIMUM TDH	- 1000 G.P.M.
MAXIMUM STATIC HEAD	- 26.2 FT.
FORCE MAIN HEAD LOSS	- 17.5 FT.
STATION DISCHARGE HEAD LOSS (ESTIMATED)	- 4.0 FT.
MAXIMUM STATIC SUCTION LIFT	- 20.0 FT.
TOTAL SUCTION LIFT	- 23.4 FT.
MAXIMUM ESTIMATED TDH	- 51.1 FT.

MINIMUM ESTIMATED TDH - 48.1 FT.
MAXIMUM REQUIRED REPRIMING LIFT - 22.0 FT.
PUMP MOTOR - 25 HP; 1350 RPM; 480/60/3

4. DUCT STANDBY ENGINE EXHAUST TO OUTSIDE OF BUILDING.
5. GAS PIPING

STANDARD BLACK STEEL PIPING WITH WELDING FITTINGS FOR PIPING 2 1/2" AND LARGER. STANDARD THREADED FITTINGS FOR 2" AND SMALLER.

TEST UNDER 30 PSI AIR PRESSURE.

INSTALL GAS COCK EXTERNAL TO THE BUILDING ON LINE ENTERING THE BUILDING AND AT PIECE OF EQUIPMENT SERVED.

THE MECHANICAL CONTRACTOR SHALL BRING PIPING ABOVE GRADE, VALVE, AND ENTER BUILDING. USE A FLANGED PLUG VALVE WITH AN INSULATING FLANGE GASKET AND PLASTIC SLEEVES FOR THE BOLTS OF THE FLANGED JOINTS.

NOT USED
-km 3-31-88

LIFT STATION OPTION NO. 1 PART C

BRUCE D. REMSBERG LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

SELF PRIMING LIFT STATION DETAILS

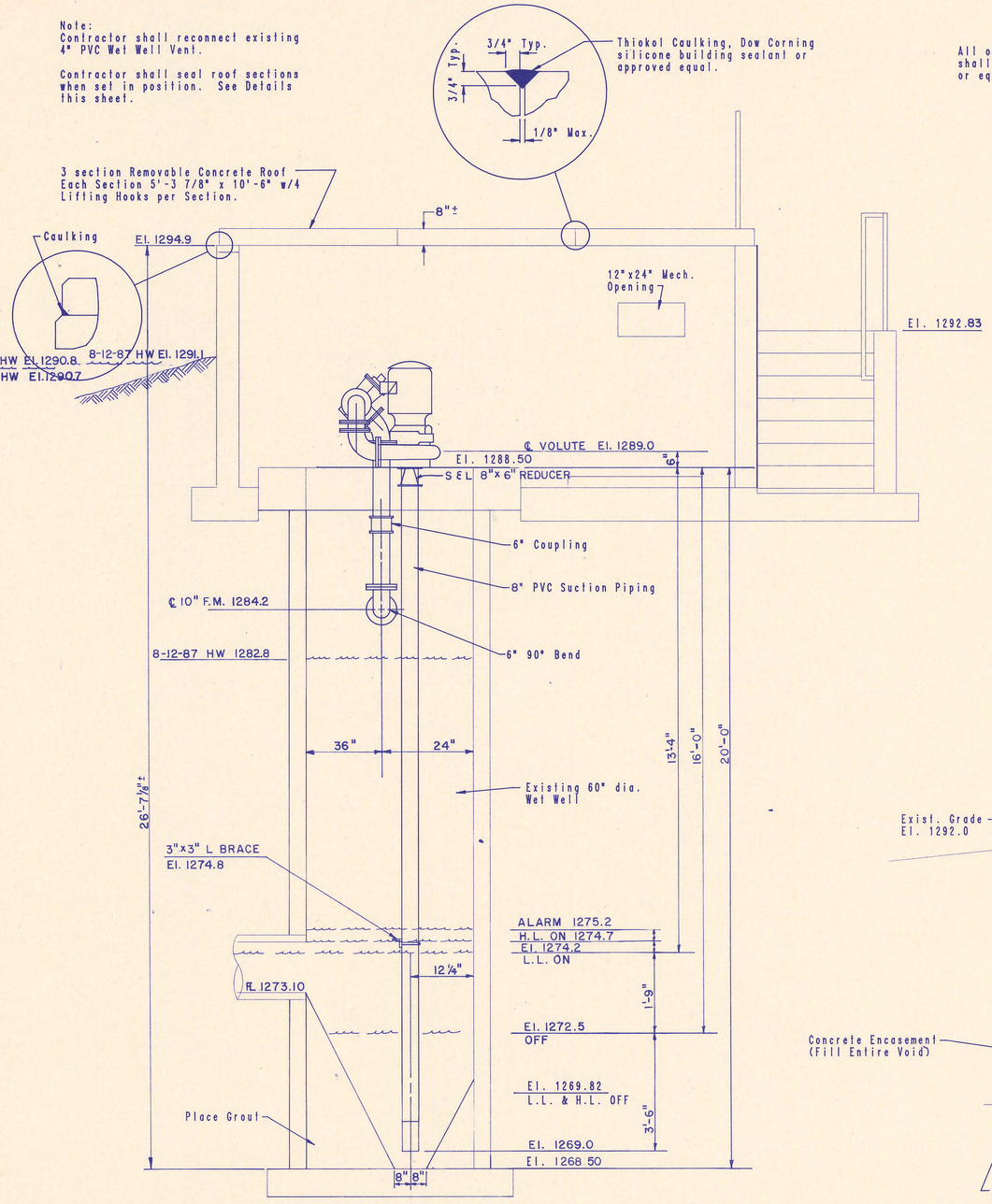
MODIFICATIONS TO EXISTING FACILITY
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by BDR	Job No. 34-85254-1	Sht. 30 of 36
Drawn by CAL	Date February, 1986	

Note:
Contractor shall reconnect existing 4" PVC Wet Well Vent.

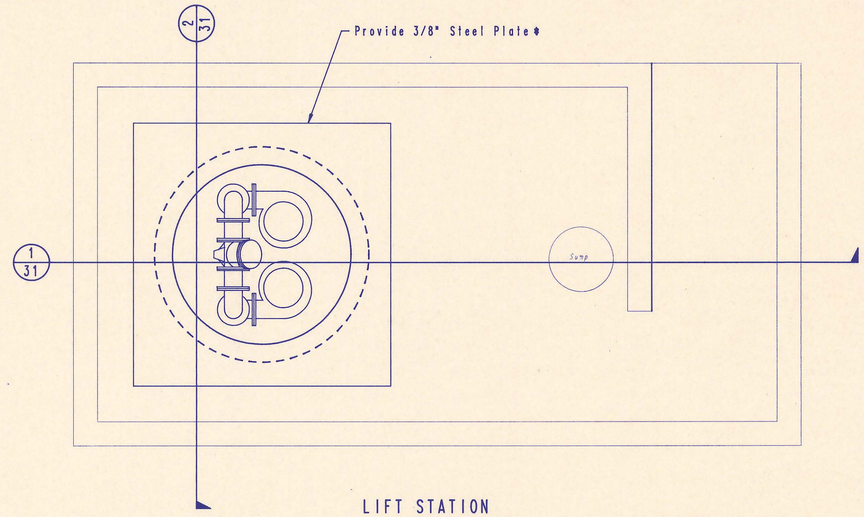
Contractor shall seal roof sections when set in position. See Details this sheet.



1/31 SECTION

Scale: 1/2" = 1'-0"

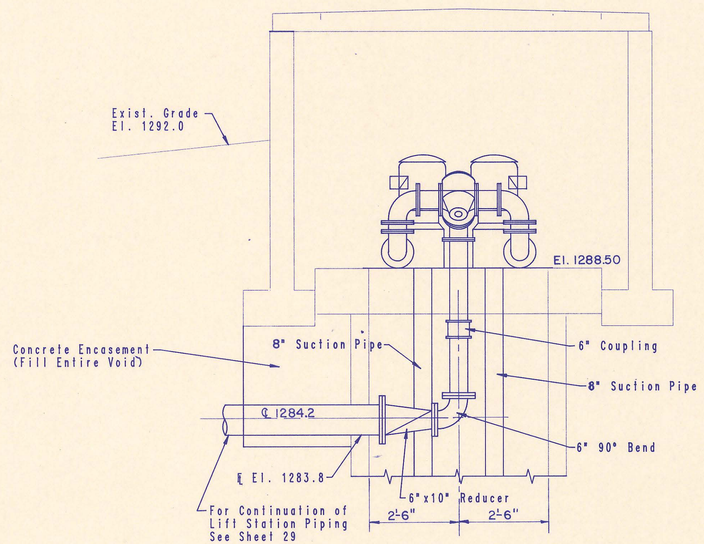
All openings through Floor Plate shall be sealed w/Embeco grout or equal after lines are installed.



LIFT STATION
PLAN VIEW

Scale: 1/2" = 1'-0"

*3/8" Steel Plate shall cover entire pump support pad. Broken down edges or other reinforcing shall be provided to insure rigid support.



2/31 SECTION

Scale: 1/2" = 1'-0"

NOTES

1. SEE PLAN SHEET 34 FOR EXISTING EQUIPMENT REMOVAL PLAN.
2. SEE PLAN SHEETS 35 & 36 FOR ELECTRICAL INSTALLATION REQUIREMENTS.
3. SEE PLAN SHEET 29 FOR STANDBY GENERATOR LOCATION.
4. PUMP OPERATING CONDITIONS

MINIMUM FLOW AT MAXIMUM TDH	- 1000 GPM
MAXIMUM STATIC HEAD	- 26.2 FT.
FORCE MAIN HEAD LOSS	- 17.5 FT.
STATION DISCHARGE HEAD LOSS (ESTIMATED)	- 8.0 FT.
MAXIMUM STATIC SUCTION LIFT	- 20.4 FT.
TOTAL SUCTION LIFT	- 22.9 FT.
MAXIMUM ESTIMATED TDH	- 54.2 FT.
MINIMUM ESTIMATED TDH	- 51.2 FT.
PUMP MOTOR - 25 H.P.; 1170 RPM; 480/60/3	

AS CONSTRUCTED
PROJ. ENG. KM DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

SMITH & LOVELESS (2–6B3B, 20 HP 1800 RPM)
MODEL S (87D96)

LIFT STATION OPTION NO. 2 PART C

BRUCE D. RENSBERG LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

VACUUM PRIMING LIFT STATION DETAILS

MODIFICATIONS TO EXISTING FACILITIES
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by BDR	Job No. 34-85254-1	Sht. 31 of 36
Drawn by CAL	Date February, 1986	

Scale: 1" = 50'

Install Shore Anchor Post
10 req'd. @ locations shown
See Detail, Sht. 33

Install Floating Aerator
6 req'd. @ locations shown
See Detail, Sht.33

567,568.4 N
389,185.3 E

567,435.4 N
389,187.3 E

567,707.6 N
389,006.1 E

567,292.7 N
389,012.5 E

567,704.5 N
388,801.2 E

567,289.5 N
388,807.5 E

567,701.3 N
388,596.2 E

567,286.4 N
388,602.6 E

567,556.6 N
388,421.3 E

567,423.6 N
388,423.4 E

142.0'
133.0'
140.0'
10' (Typ.)
187.0'
177.0'
187.8'
205.0'
187.1'
177.1'

Top of Dike
El 1295.0

Pond No. 2
2.71 Acres @ Design Water Surface El 1291.0
Bottom El 1286.0
Total Volume = 4.6 MG @ 5.0' depth

8" CIP Pond
Transfer Line

8" CIP

Pond No. 3
7.02 Acres @ Design Water Surface El 1296.0
Bottom El 1291.0
Total Volume = 10.4 MG @ 5.0' depth

8" DIP Pond
Transfer Line

Pond No. 1
4.15 Acres @ Design Water Surface El 1291.0
Bottom El 1286.0
Total Volume = 6.3 MG @ 5.0' depth

8" DIP

8" CIP Pond
Drain Line

6" PVC Force Main (Exist.)

For Installation of 6" Force Main
See Sht. 28

Const. Clay Cut-off
Wall. See Sht. 33

Install 215 L.F. Control
Wire in 1" dia. conduit,
pull stations as required

Install 46 L.F.
12" DICL Pipe

Constr. Level Control Structure
See Sht. 33

Install 123 L.F.
12" DICL Pipe

Remove & Reset
fence as required

Gas Meter

Clear & Grub
as required

Constr. Outfall Structure
See Detail, Sht. 33

Install 100 sq. yds. Rock
Riprap (D-50%-6") in place

Remove & Replace 40 sq. yds.
unpaved surface. See detail
Sht. 9 (Part A)

Access Road

Parking

Exist. Lift Station

MH

8" Sanitary Sewer

10" Sanitary Sewer

18" Sanitary Sewer

Spring Branch-Four Mile Creek

HWY 54

389,200 E
389,000 E
388,800 E
388,600 E
388,400 E

567,800 N
567,600 N
567,400 N
567,200 N
567,000 N
566,800 N
566,600 N

AS CONSTRUCTED
PROJ. ENG. DDR DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

PART D

BRUCE D. REMSBERG
LICENSED
7992
KANSAS
PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

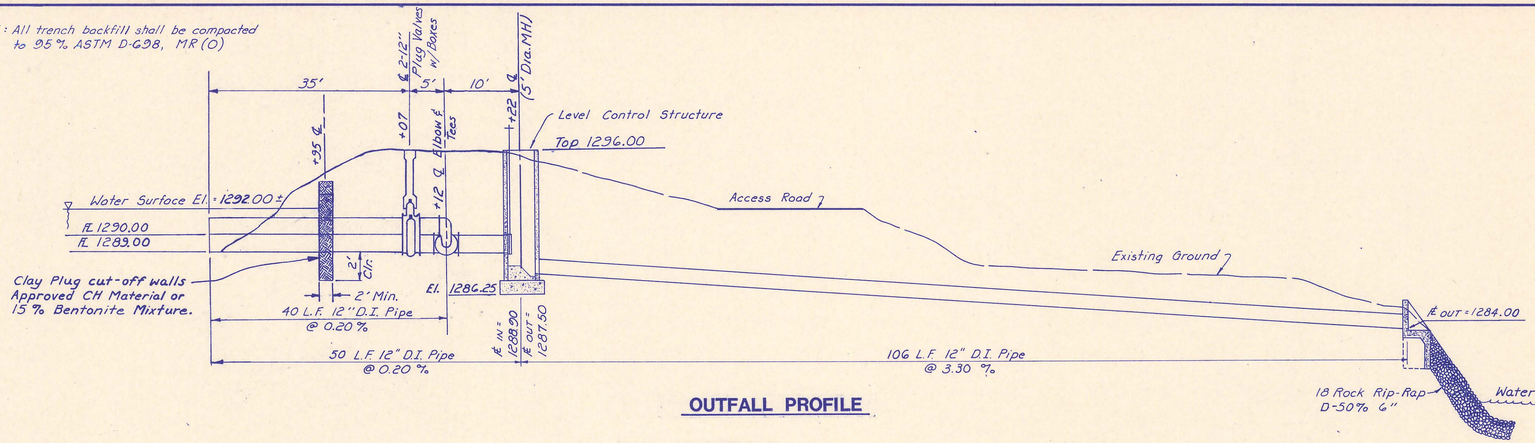
SITE PLAN

MODIFICATIONS TO EXISTING FACILITIES
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by BDR	Job No. 34-85254-1	Sht. 32 of 36
Drawn by CAL	Date February, 1986	

NOTE : All trench backfill shall be compacted to 95% ASTM D-698, MR (O)



OUTFALL PROFILE

NOTE:

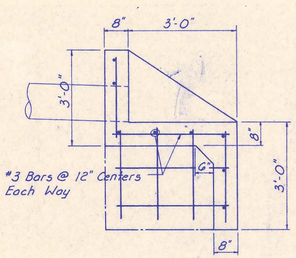
IN ORDER TO INSTALL THE OUTFALL LINE, THE CONTRACTOR MAY ELECT TO USE ONE OF THE FOLLOWING OPTIONS (SUBJECT TO THE VARIOUS PROVISIONS SET OUT BELOW) TO PROTECT THE WORK FROM WATER FROM THE LAGOON

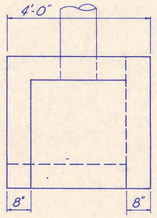
A) CONSTRUCT A COFFERDAM FOR DEWATERING.
B) LOWER THE WATER SURFACE ELEVATION BY PUMPING INTO THE OTHER LAGOONS.
C) LOWER THE WATER SURFACE ELEVATION BY DISCHARGING THROUGH THE EXISTING OUTLET PIPE.

THE CONTRACTOR SHALL NOT BE ALLOWED TO DISCHARGE INTO THE EXISTING LAGOONS TO THE EXTENT THAT WATER SURFACE ELEVATIONS EXCEED TWO FEET (2') OVER NORMAL WATER SURFACE ELEVATION.

THE CONTRACTOR SHALL BE ALLOWED TO DISCHARGE OUT OF THE TREATMENT PLANT ONLY IF THE FOLLOWING CONDITIONS ARE MET.

A) PRIOR APPROVAL FOR DISCHARGING IS GIVEN BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT IN WRITING.
B) EFFLUENT QUALITY STANDARDS, AS MONITORED BY SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES PERSONNEL, ARE CONTINUALLY MET DURING DISCHARGE.
C) THE CONTRACTOR SHALL AGREE TO HALT DISCHARGE IMMEDIATELY UPON RECEIPT OF NOTICE FROM THE ENGINEER TO DO SO.

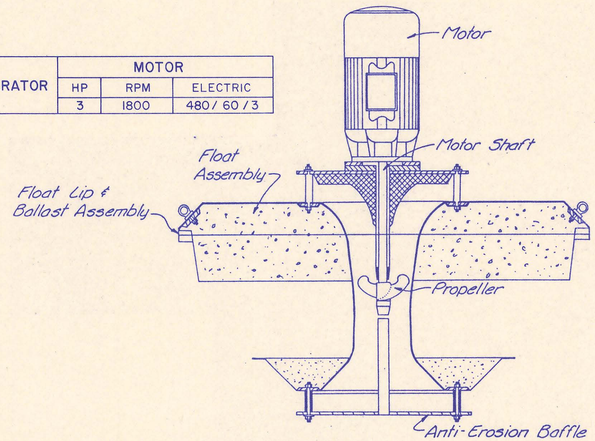




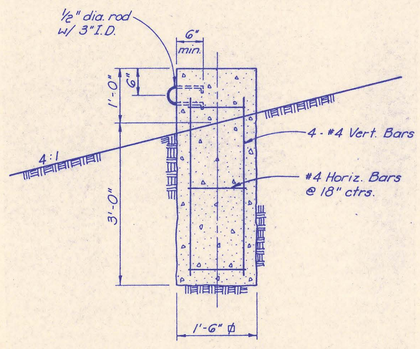
Construct 3' cut-off wall along downstream face

OUTFALL STRUCTURE DETAIL

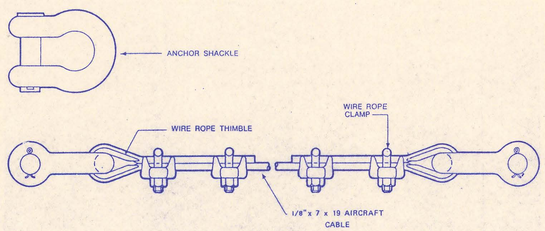
AERATOR	MOTOR		
	HP	RPM	ELECTRIC
	3	1800	480/60/3



FLOATING AERATOR DETAIL

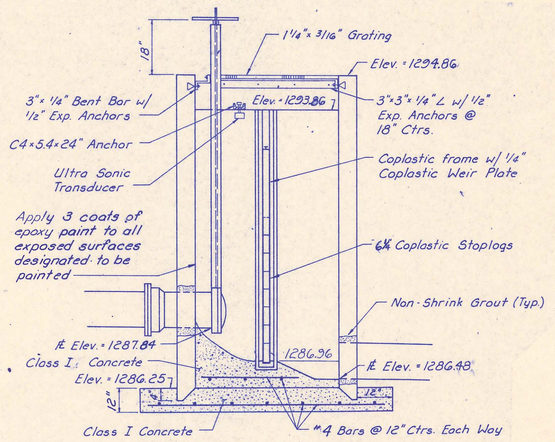


SHORE ANCHOR POST DETAIL

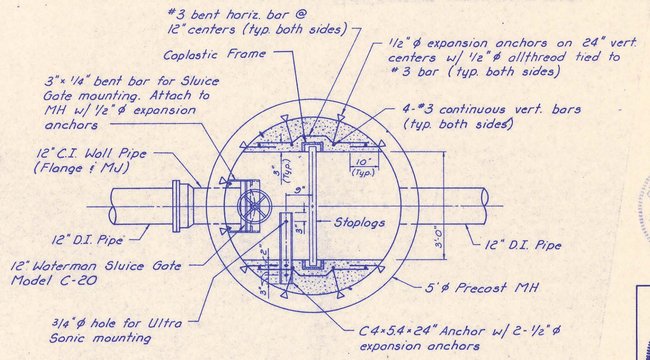


NOTE: ALL COMPONENTS ARE STAINLESS STEEL

AERATOR MOORINGS



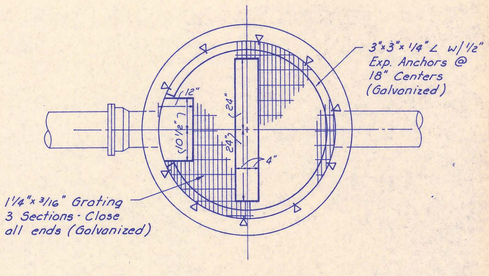
SECTION



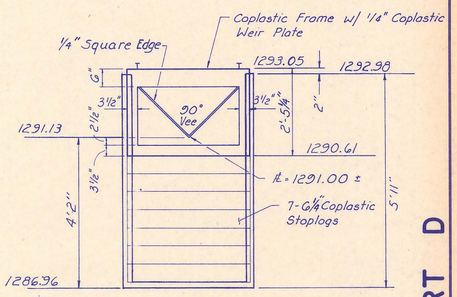
PLAN

NOTE : All expansion anchors to be Hilti "Kwik Bolt", No. 12-234

LEVEL CONTROL STRUCTURE



GRATING PLAN



WEIR PLATE DETAIL

AS CONSTRUCTED

PROJ. ENG. [signature] DATE 3-31-88

RES. ENG. LDC DATE 3-31-88

GILBERT L. ADAMS LICENSED 8300 KANSAS PROFESSIONAL ENGINEER

KEVIN LAWRENCE HOOD LICENSED 10104 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

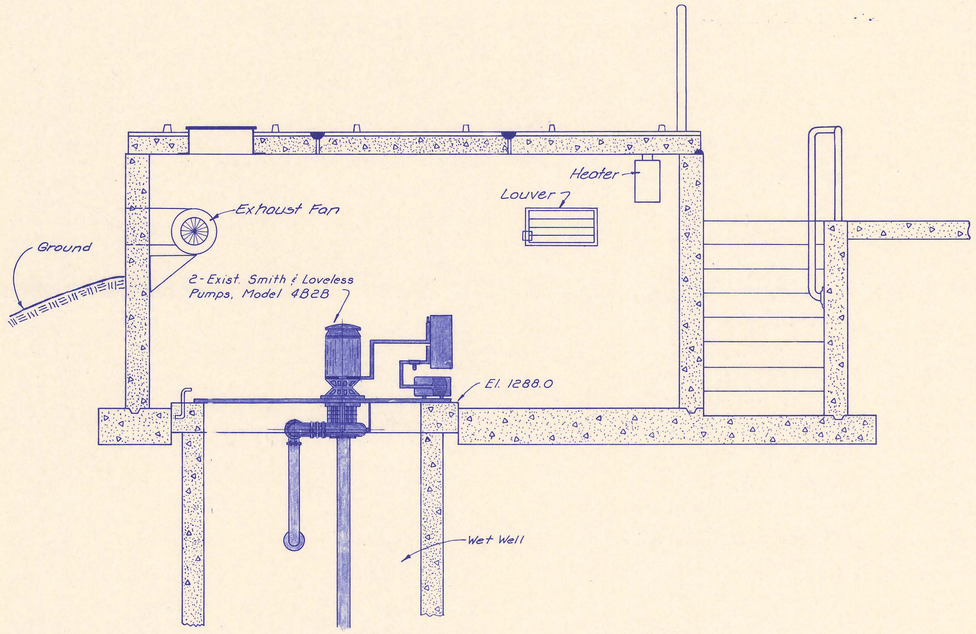
DETAILS

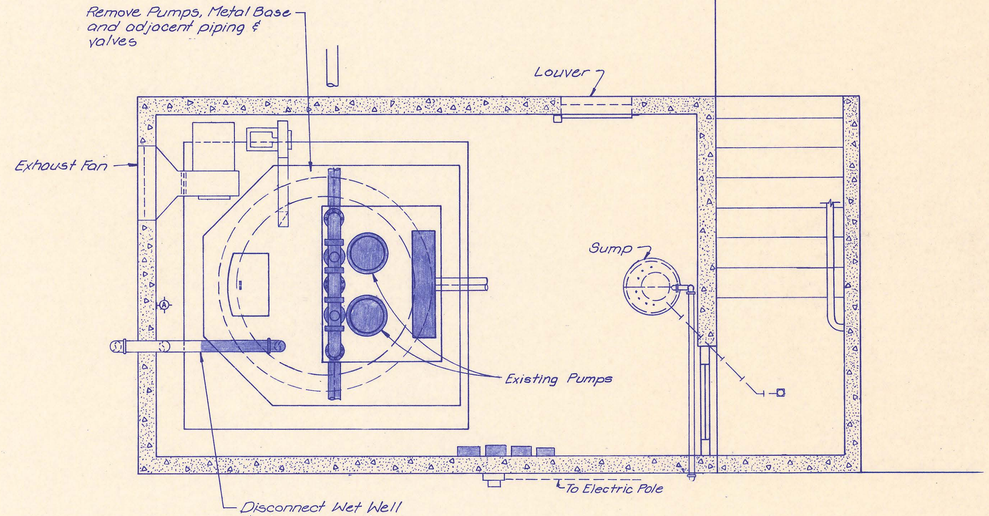
MODIFICATIONS TO DISCHARGING FACILITIES
TIMBER LAKES - SPRINGDALE SEWAGE TREATMENT PLANT

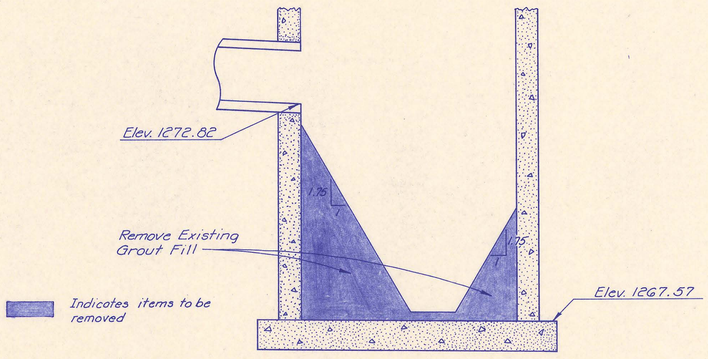
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by MDS, KLR	Job No. 34-85254-1	Sht. 33 of 36
Drawn by GM	Date Feb. 1986	

PART D







AS CONSTRUCTED
PROJ. ENG. DRA DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

PART C

BRUCE D REMSBERG LICENSED 7992 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

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

EQUIPMENT REMOVAL PLAN EXISTING LIFT STATION

MODIFICATIONS TO DISCHARGING FACILITIES
TIMBER LAKES - SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by BDR	Job No. 85254-1	Sht. 34 of 36
Drawn by CAL	Date Feb. 1986	

SCALE: 1"=50'

Pond No. 1
7.02 Acres @ Design Water Surface El.1296.0
Bottom El.1291.0
Total Volume - 10.4 MG @ 5.0' depth

Top of Dike
El. 1299.0

8" DIP Pond
Transfer Line

Pond No. 7
2.71 Acres @ Design Water Surface El.1291.0
Bottom El.1286.0
Total Volume - 4.0 MG @ 5.0' depth

Top of Dike
El. 1295.0

8" DIP

8" DIP Pond
Transfer Line

Pond No. 8
4.45 Acres @ Design Water Surface El.1291.0
Bottom El.1286.0
Total Volume - 6.5 MG @ 5.0' depth

8" DIP Pond
Drain Line

8" DIP

30 Amp, 3P, 3W, 480V,
NEMA 4XSS Fusible Disc.
Switch, Typical of 6

Die Cast, Malleable Iron, Gasketed
Junction Box & Cover
Size as required, Typical of 4

Aerator (Typ.)

Future 42" Sanitary Sewer

8" Sanitary Sewer

Future 8" Sanitary Sewer

Future 8" Sanitary Sewer

Future Lift Station

3" G

Gas Meter

HARRY STREET

389,200 E

389,000 E

388,800 E

388,600 E

388,400 E

567,800 N

567,600 N

567,400 N

567,200 N

567,000 N

566,800 N

566,600 N

AS CONSTRUCTED
PROJ. ENG. DLS DATE 3-31-88
RES ENG. LDG. DATE 3-31-88

No.	Revision	By	Date

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

ELECTRICAL SITE PLAN

MODIFICATIONS TO EXISTING FACILITY
TIMBER LAKES-SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by CEW	Job No. 20-85254-1	Sht. 35 of 36
Drawn by CAL	Date MAY, 1986	

BRANCH CIRCUIT PANEL SUMMARY

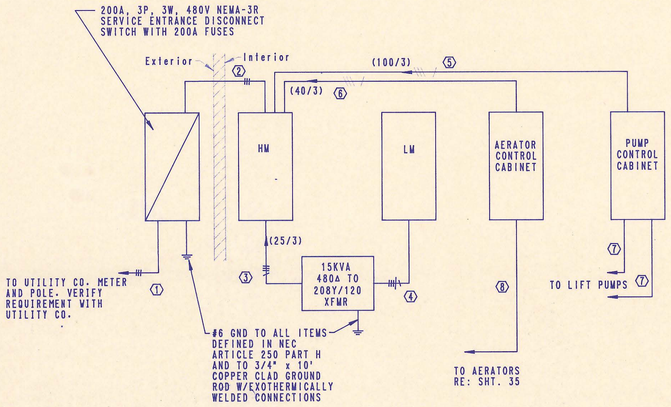
PANEL DESIG.	120/240V. 3-W	277/480V. 3-W	M.L.O.	MAINS RATING (AMPS) BRKR.	MOUNTING S	MOUNTING F	BRANCH CIRCUIT BREAKERS AMPS / POLE / ACTIVE / SPARE — 20/1	15/3	20/3	40/3	100/3	60/3	25/3	SPACE	REMARKS	SUPPLY DEVICE RATING (AMPS/AIC)	CIRC. NUMBER	FEEDER (SEE SCHED.)
HM		●	225		●					1	1		1	9	OPTION#1	200/200	SERVICE	①
LM	●			60	●		6/6		1					3	OPTION#1		TRANS.	④
HM		●	225		●					1		1	1	9	OPTION#2	200/200	SERVICE	①
LM	●			60	●		4/8		1					3	OPTION#2		TRANS	④
EHM		●	225		●			1			1			6	OPTION#2		ATS	⑫
ELM	●			35	●		3/5							6	OPTION#2		TRANS	⑭

NOTE:
Flow Meter shall be ISCO Model 2400 with Ultrasonic Level Sensor or Inventron Model 9400-4MA-12RS-XX-N4N-V1-X Flow Meter with Inventron Model 9200-T100-1-GFP3-N1-WF-X Transmitter or approved equal.

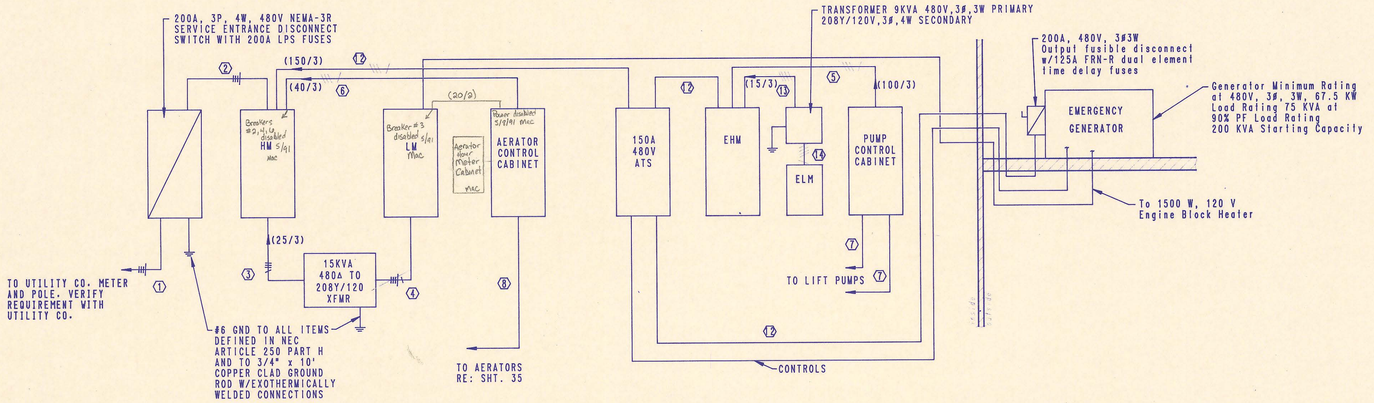
Circular Chart Recorder shall be ISCO Model 2410 or Foxboro Model 40PR-R-F-EIC*ESA or approved equal.

FEEDER SCHEDULE

DESIG.	SIZE
①	3#3/0 THW,CU IN 2 1/2" GRC
②	3 #3/0 THW, CU & #6 CU GND, IN 2 1/2" GRC
③	3 #8 TW, CU & #10 CU GRD IN 3/4" GRC
④	4 #6 THW, CU & #10 CU. GRD,IN 1 1/4" GRC
⑤	3 #2 THW, CU & #8 CU GND IN 1 1/2" GRC
⑥	3 #8 THW, CU & #10 CU GND IN 3/4" GRC
⑦	3 #6 THW, CU & #8 CU GND IN 1" UL Listed Liquid Tight Flexible Conduit
⑧	18 #6 THW, CU #6 CU GND, 3" SCH 40 PVC C
⑨	12 #6 THW, CU #6 CU GND, 2 1/2" SCH 40 PVC C
⑩	6 #6 THW, CU #6 CU GND, 2" SCH 40 PVC C
⑪	3 #8 THW, CU #8 CU GND, 1" PVC Coated GRC
⑫	3 #1/0 THW, CU & #6 CU GND, IN 2" GRC
⑬	3 #12 THW, CU & #12 CU GRD IN 1/2" GRC
⑭	4 #8 THW CU & #10 CU GND IN 3/4" GRC

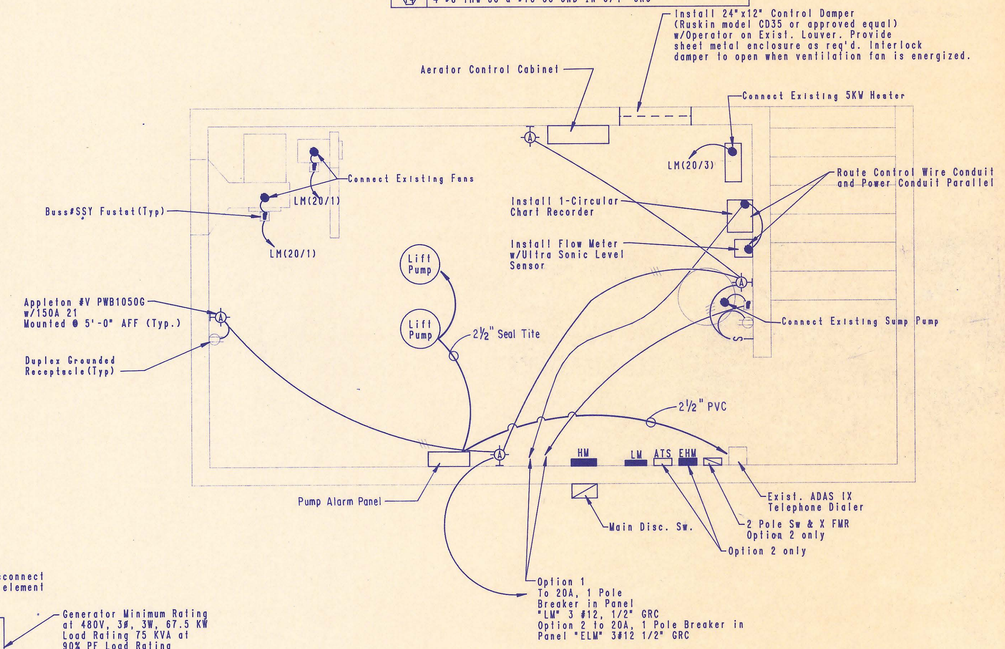


OPTION 1 - ELECTRICAL DISTRIBUTION RISER DIAGRAM



OPTION 2 - ELECTRICAL DISTRIBUTION RISER DIAGRAM

NOTE: Salvage all existing electrical apurtenances that are not scheduled to be retained to Sedgwick County Bureau of Public Services.



LIFT STATION
PLAN VIEW
Scale: 1/2" = 1'-0"

See also Lift Station Site Detail, Sheet 29

AS CONSTRUCTED
PROJ. ENG. DBA DATE 3-31-88
RES. ENG. LDC DATE 3-31-88

PART C & D

No.	Revision	By	Date

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

ELECTRICAL
LIFT STATION FLOOR PLAN
MODIFICATIONS TO EXISTING FACILITIES
TIMBER LAKES - SPRINGDALE SEWAGE TREATMENT PLANT

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

Designed by CEW	Job No. 20-85254-1	Sht. 36 of 36
Drawn by CAL	Date MAY, 1986	