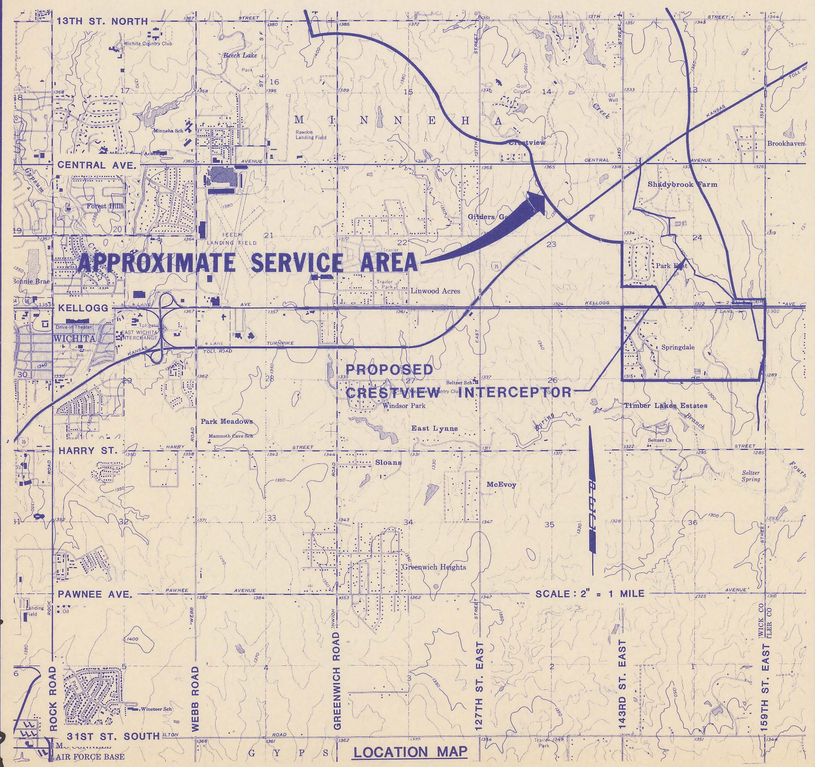
SEDGWICK COUNTY KANSAS



FOUR MILE CREEK

4MC-058

CONSTRUCTION PLANS FOR A
SANITARY SEWER INTERCEPTOR
IN THE
CRESTVIEW JOINT SEWER DISTRICT

Project No. 34-81051-5-024

JUNE, 1982

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-21-86
RES. ENG. [illegible] DATE 3-21-86

INDEX OF SHEETS

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SHEET NO. 7	NOT PART OF THIS PROJECT
SHEET NO. 8-24	PLAN/PROFILE

APPROVED BY:
BOARD OF COUNTY COMMISSIONERS
Bernard A. Hartman — CHAIRMAN — 9/30/86 DATE

APPROVED BY:
SEDGWICK COUNTY
BUREAU OF PUBLIC SERVICES
David C. Spears — DIRECTOR — 9/30/86 DATE

FILED IN THE OFFICE OF:
THE SEDGWICK COUNTY CLERK
[illegible] — COUNTY CLERK — 9/30/86 DATE

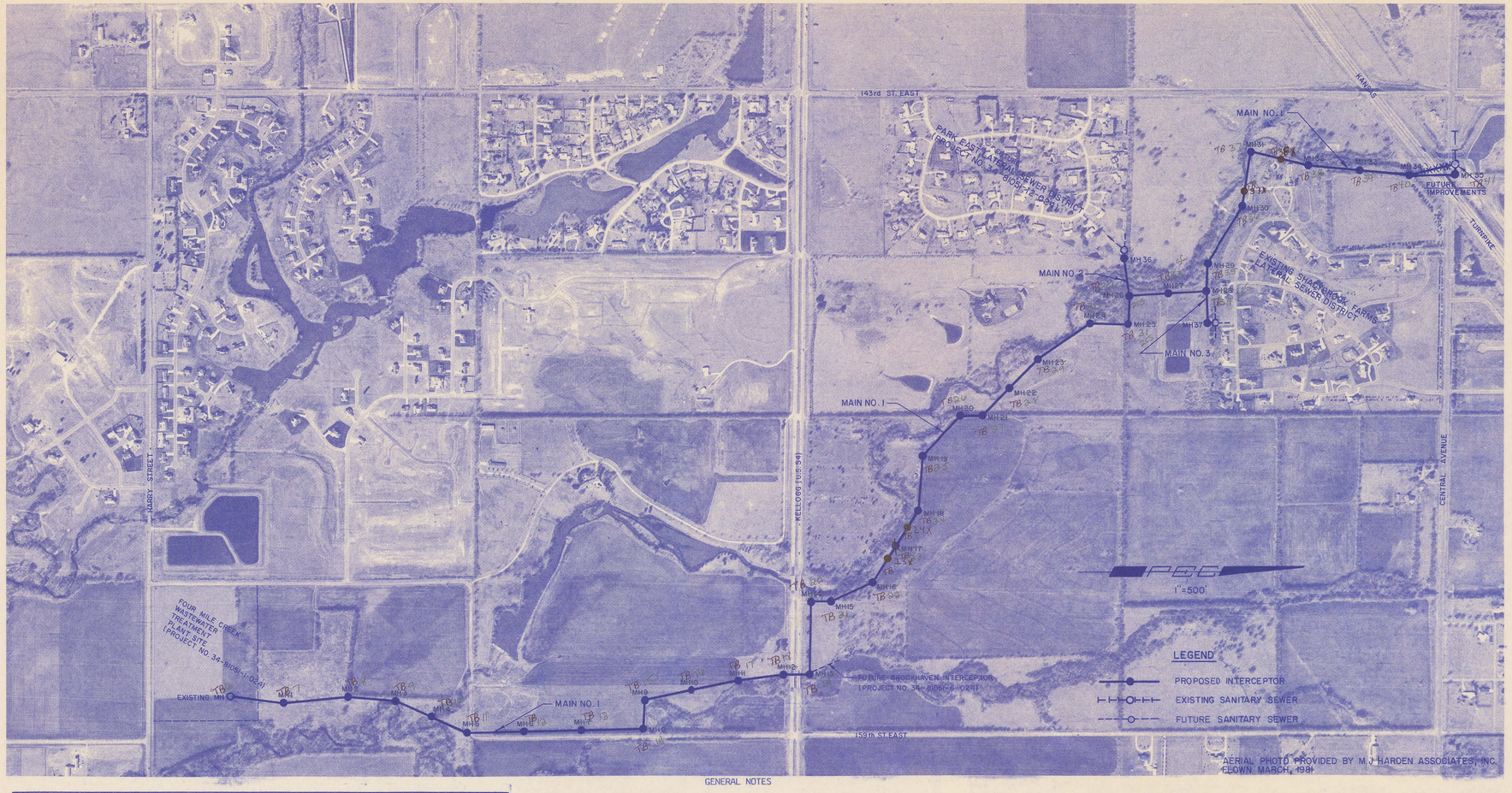
MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

Revised June, 1986

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

850-058



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	APPLICATION RATES: 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) BELOW	SEE NOTES (2) & (3) BELOW

NOTE: FERTILIZER RATES IN THE TABLE ARE BASED ON 12-24-12 FERTILIZER WHICH YIELDS 1 LB OF ACTUAL NITROGEN, 2 LBS. OF ACTUAL PHOSPHOROUS AND 1 LB OF ACTUAL POTASSIUM PER 1,000 SQUARE FEET AT THE RATES SPECIFIED.

1. *NATIVE GRASS SHALL CONSIST OF THE FOLLOWING MIXTURE:

GRASS SPECIES	RATE IN (PURE LIVE SEED) (LBS/ACRE)
BIG BLUESTEM	2.25
LITTLE BLUESTEM	1.20
INDIAN GRASS	2.25
SIDE OATS GRAMA	1.80
SWITCHGRASS	0.45
WESTERN WHEATGRASS	8.0
BROME GRASS	8.0
ANNUAL RYE	25.0

2. FERTILIZER:

FERTILIZER	RATE OF DISTRIBUTION
12-24-12	4.0 LBS/1,000 SQ.FT. OR 175 LBS/ACRE
10-20-0	5.0 LBS/1,000 SQ.FT. OR 220 LBS/ACRE
5-10-5	10.0 LBS/1,000 SQ.FT. OR 425 LBS/ACRE

(WORK INTO TOP 3" OF SOIL)

3. MULCH: HAY: 90 LBS/1,000 S.F. (2 TONS/ACRE) (FIRM WITH CULTIPAKER OR DISC)

INTERCEPTOR SCHEDULE

MAIN NO.	STATION TO STATION	MANHOLES	SHEET NO.
MAIN NO. 1	00+00.00 to 04+48.56	Existing MH and 1	8
MAIN NO. 1	04+48.56 to 13+64.17	1 thru 3	9
MAIN NO. 1	13+64.17 to 19+91.93	3 thru 5	10
MAIN NO. 1	19+91.93 to 29+49.29	5 thru 7	11
MAIN NO. 1	29+49.29 to 34+27.97	7 and 8	12
MAIN NO. 1	34+27.97 to 44+60.12	8 thru 11	13
MAIN NO. 1	44+60.12 to 50+39.99	11 thru 13	14
MAIN NO. 1	56+39.99 to 58+05.55	14 and 15	15
MAIN NO. 1	58+05.55 to 68+64.55	15 thru 18	16
MAIN NO. 1	68+64.55 to 77+90.07	18 thru 20	17
MAIN NO. 1	77+90.07 to 86+44.59	20 thru 23	18
MAIN NO. 1	86+44.59 to 96+48.07	23 thru 26	19
MAIN NO. 1	96+48.07 to 105+44.73	26 thru 29	20
MAIN NO. 1	105+44.73 to 115+52.03	29 thru 31	21
MAIN NO. 1	115+52.03 to 124+02.36	31 thru 33	22
MAIN NO. 1	124+02.36 to 131+83.14	33 thru 35	23
MAIN NO. 2	00+00.00 to 03+57.98	26 and 36	24
MAIN NO. 3	00+00.00 to 03+24.10	28 and 37	24

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., KPL/GAS SERVICE COMPANY, K.G.&E., THE WICHITA WATER DEPARTMENT, S.W. BELL TELEPHONE CO., MULTIMEDIA CABLEVISION, AND CONTINENTAL PIPELINE CO.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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, LOCATIONS, AND AS REQUIRED IN THE SPECIFICATIONS SHALL BE CONSIDERED SUBSIDIARY TO SITE CLEARING AND RESTORATION.

8. 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.

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

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

11. WHERE CONNECTIONS ARE TO BE MADE TO "EXISTING PIPE" THE CONTRACTOR SHALL VERIFY THE LOCATION, DIRECTION, GRADIENT AND END FLOW LINE ELEVATION OF THE EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION.

12. 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."

13. 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.

14. 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.

15. AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OF THE INTERCEPTOR CROSSING AT THE KANSAS TURNPIKE, THE CONTRACTOR SHALL CONTACT U.S. SPRINT AT 1-800-521-0579 TO REQUEST FLAGGED LOCATIONS OF THE EXISTING FIBRE OPTIC CABLE IN THE AREA.

16. THE CONTRACTOR SHALL OBTAIN AN APPROVED KDOT HIGHWAY CROSSING PERMIT PRIOR TO BEGINNING CONSTRUCTION ON KANSAS DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY. THE CONTRACTOR SHOULD CONTACT MR. DON FOSTER, UTILITY COORDINATOR, AT THE KANSAS DEPARTMENT OF TRANSPORTATION, (316) 744-1271, TO REQUEST A PERMIT APPLICATION.

17. THE CONTRACTOR ALSO SHALL OBTAIN AN APPROVED KTA HIGHWAY CROSSING PERMIT PRIOR TO BEGINNING CONSTRUCTION ON KANSAS TURNPIKE AUTHORITY RIGHT-OF-WAY. THE CONTRACTOR SHOULD CONTACT MR. JOHN E. CILLESSEN, P.E., DIVISION ENGINEER AT THE KANSAS TURNPIKE AUTHORITY, (316) 682-4537 TO REQUEST A PERMIT APPLICATION.

18. FOLLOWING CONSTRUCTION, THE SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES WILL FURNISH AND INSTALL MARKER POSTS INDICATING THE UNDERGROUND JTILITY, SIZE, DEPTH, OWNER, AND OWNER'S TELEPHONE NUMBER. THE MARKER POSTS SHALL BE PLACED WHERE THE NEW SANITARY SEWER ENTERS AND EXITS KTA RIGHT-OF-WAY.

* Note: MH # 31-32-33-34 were coated Y45
#33 w/ Supercoat
#30-31-34 w/ MS20S
(#31 epoxy over MS20S)

Note: MH # 23X + 24X Profile can be found in Buffle Turbe South 4 + 5

MH # 37Y + 38X Profile can be found in estates @ Shadybrook Div 16

AS CONSTRUCTED
PROJ. ENG. _____ DATE 2-21-88
RES. ENG. _____ DATE 2-21-88

MICHAEL D. SCHOMAS LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Updated per Current Standards	RJ	6/86

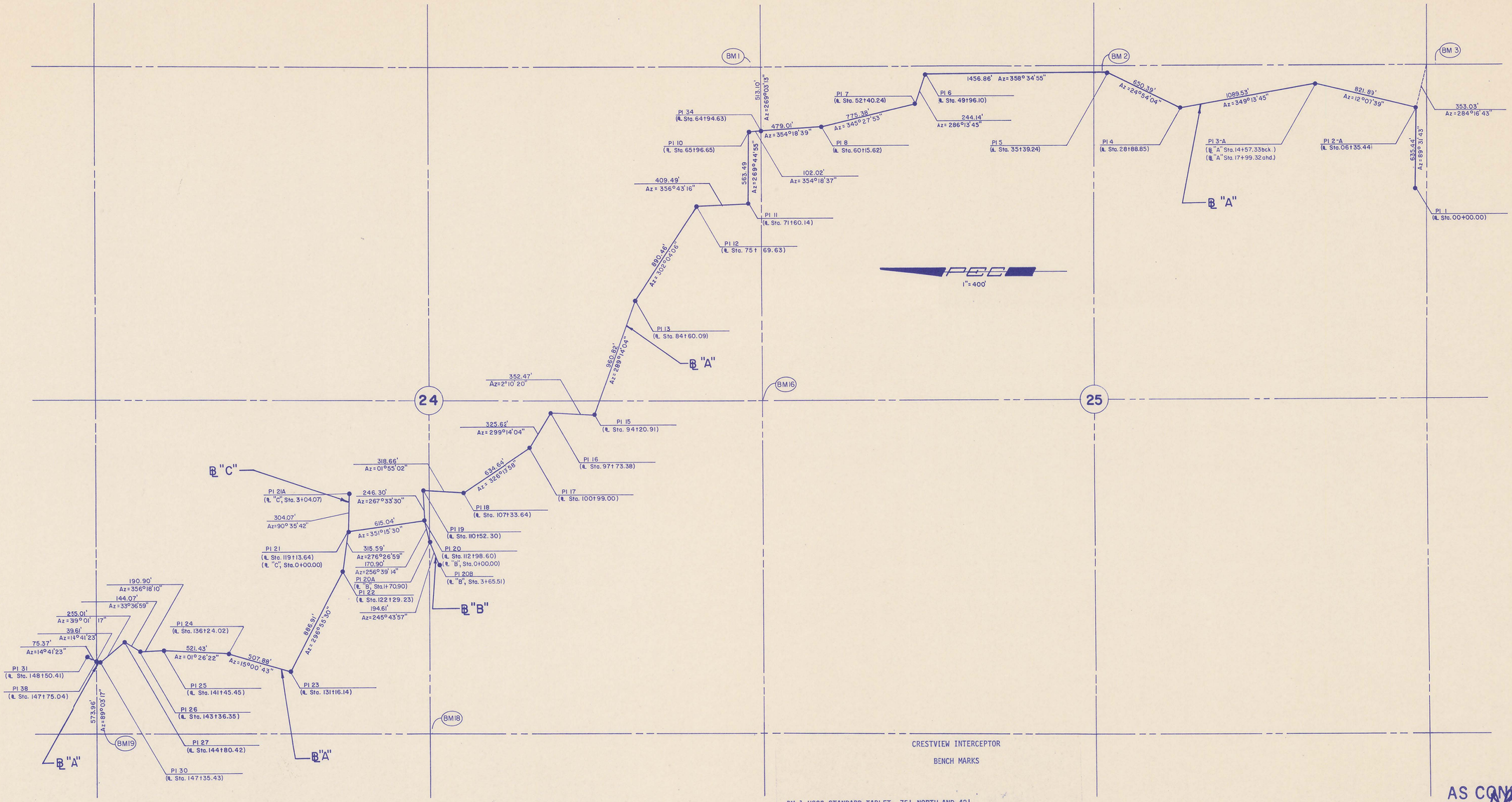
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

KEY MAP

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

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

Designed by MDS, LM, RFJ | Job No. 81051-5 | Sht. 2 of 24
Drawn by SM | Date June, 1982



CRESTVIEW INTERCEPTOR

BENCH MARKS

BM 1 USGS STANDARD TABLET, 75' NORTH AND 42' EAST OF SOUTHEAST CORNER, SECTION 24, T27S, R2E.
ELEV. = 1301.83 (MSL)

BM 2 60d STEP IN BRACE POST, 60' SOUTH AND 40' WEST OF EAST 1/4 CORNER, SECTION 25, T27S, R2E.
ELEV. = 1290.12 (MSL)

BM 3 RAILROAD SPIKE IN UTILITY POLE, 70' SOUTH AND 30' EAST OF SOUTHEAST CORNER, SECTION 25, T27S, R2E.
ELEV. = 1287.62 (MSL)

BM 16 RAILROAD SPIKE IN UTILITY POLE IN NORTH R/W FENCE AT SOUTH 1/4 CORNER, SECTION 24, T27S, R2E.
ELEV. = 1324.89 (MSL)

BM 18 60d STEP IN UTILITY POLE, 15' SOUTH AND 50' EAST OF WEST 1/4 CORNER, SECTION 24, T27S, R2E.
ELEV. = 1335.20 (MSL)

BM 19 60d NAIL IN UTILITY POLE, 60' SOUTHEAST OF NORTHWEST CORNER, SECTION 24, T27S, R2E.
ELEV. = 1317.89 (MSL)

AS CONSTRUCTED
PROJ. ENG. N/A DATE 3-31-88
RES. ENG. GME DATE 3-31-88

MICHAEL D. SCHOONMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

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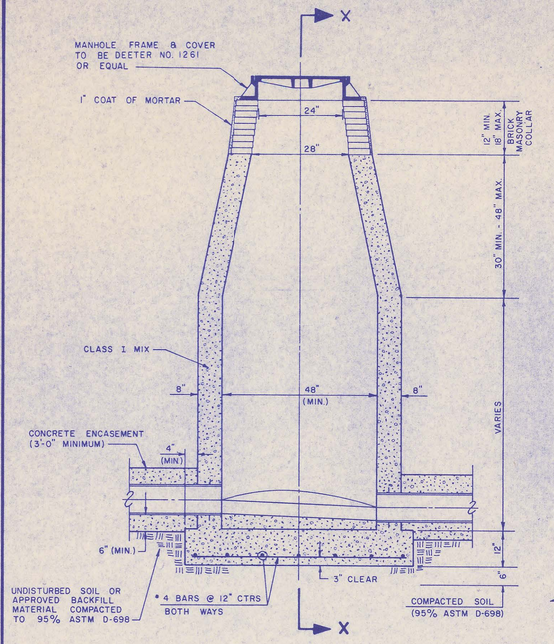
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

BASELINE KEY MAP

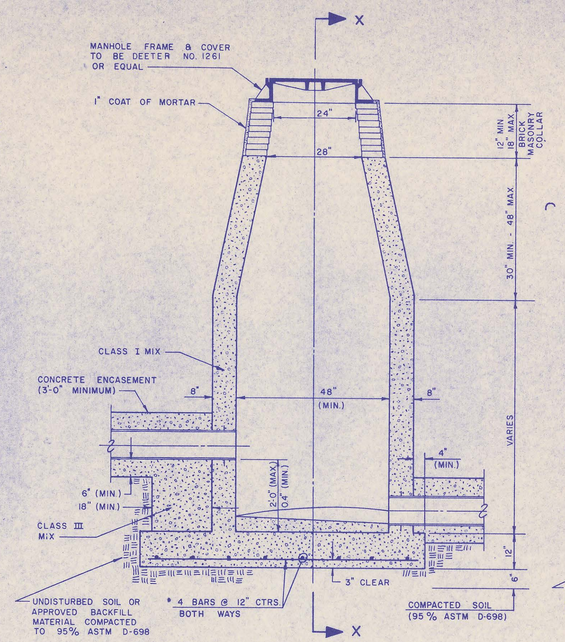
SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
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WICHITA, KANSAS

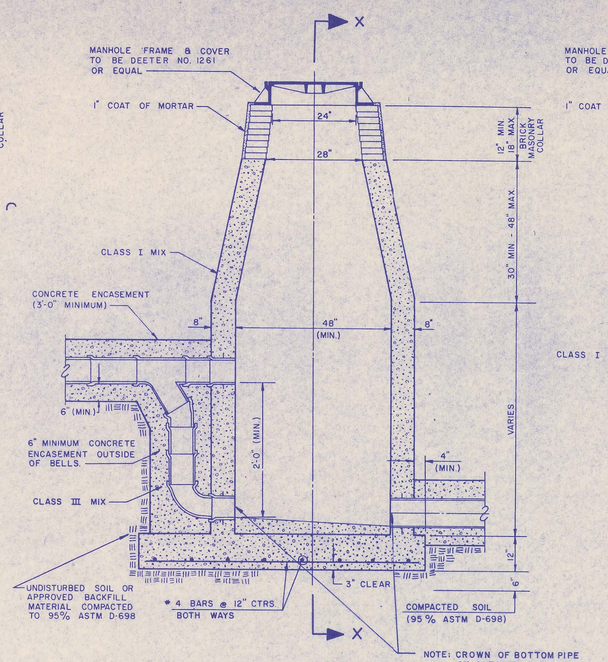
Designed by MDS, LM, RFJ	Job No. 81051-5	Sht. 3 of 24
Drawn by SM	Date June, 1982	



CAST IN PLACE
STANDARD MANHOLE
TYPE "A"

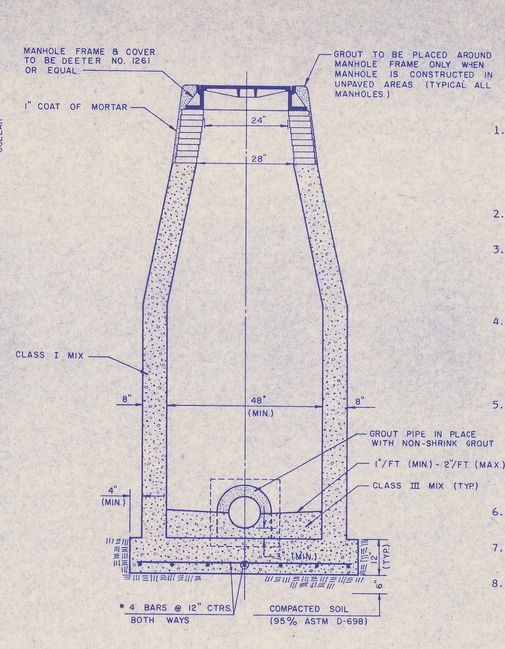


CAST IN PLACE
DROP MANHOLE
TYPE "B"



CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "C"

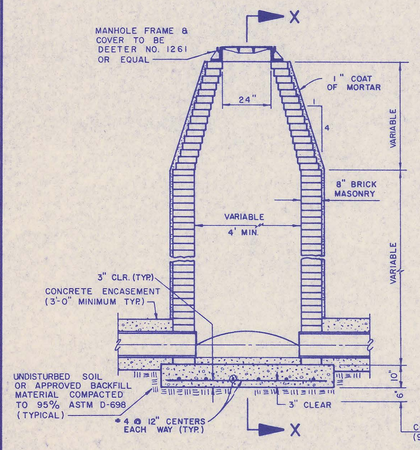
NOTE: CROWN OF BOTTOM PIPE ON OUTSIDE DROP SHALL ALWAYS BE SET 0.1 FT. HIGHER THAN CROWN OF PIPE CARRYING FLOW OUT OF THE MANHOLE.



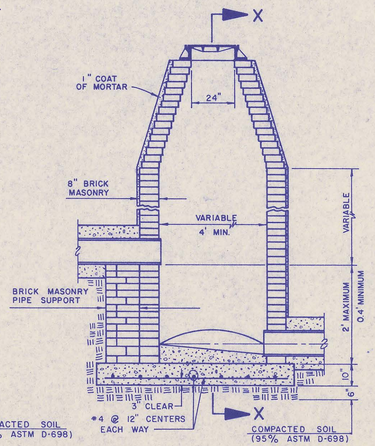
SECTION X
(TYPICAL)

MANHOLE NOTES

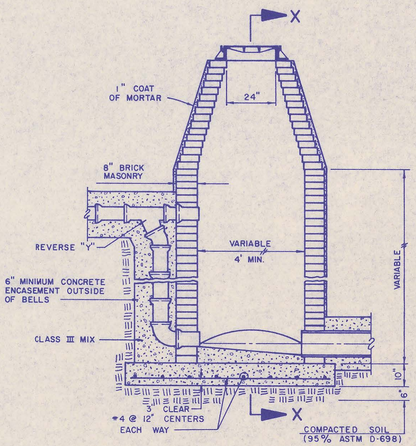
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. WHEN OPENINGS ARE CUT 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.



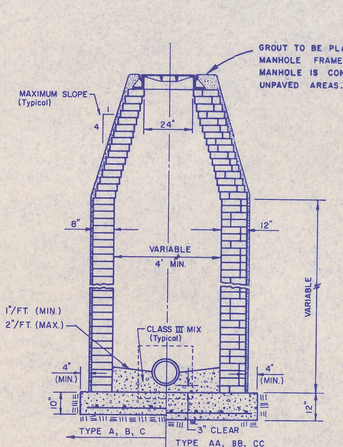
STANDARD MANHOLE
TYPE A



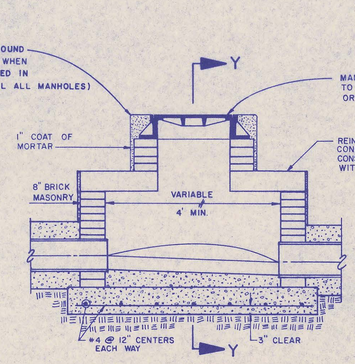
DROP MANHOLE
TYPE B



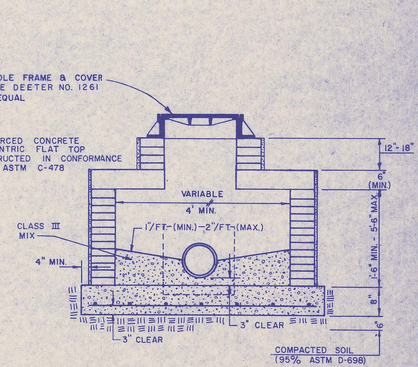
OUTSIDE DROP MANHOLE
TYPE C



SECTION X



SHALLOW MANHOLE
TYPE D



SECTION Y

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-31-86
RES. ENG. RGM DATE 3-31-86

No.	Revision	By	Date
1	Revised Per Current Standards.	RJ	6/86

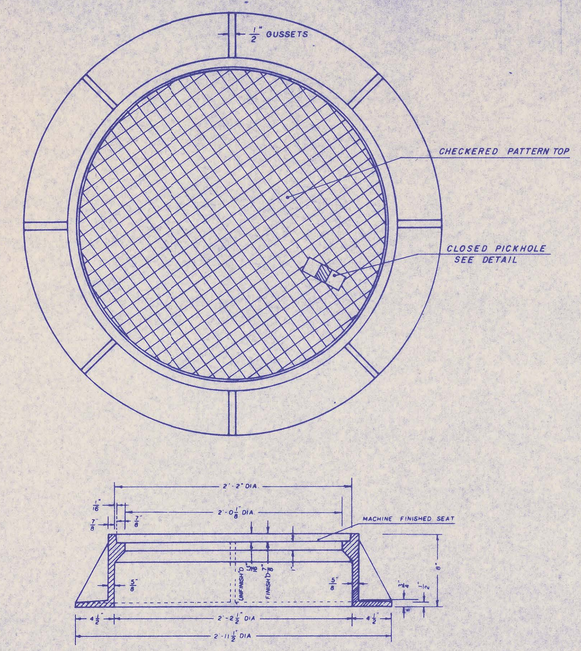
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MANHOLE DETAILS

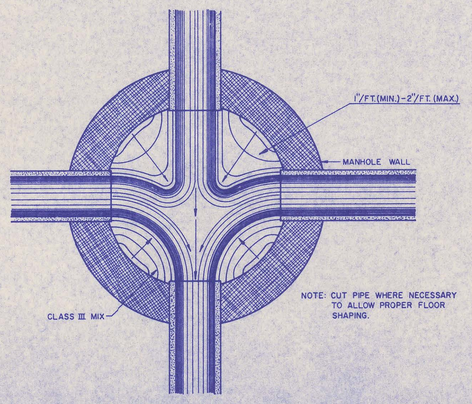
SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
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Drawn by GM, RFJ | Date June, 1982

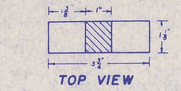


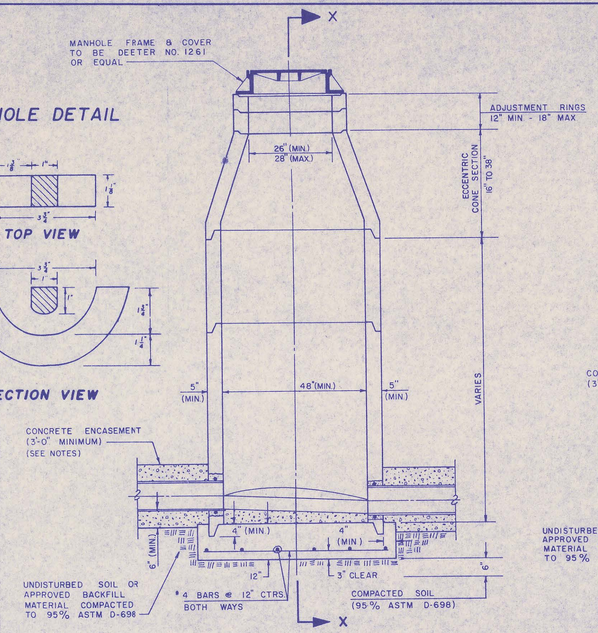
MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)



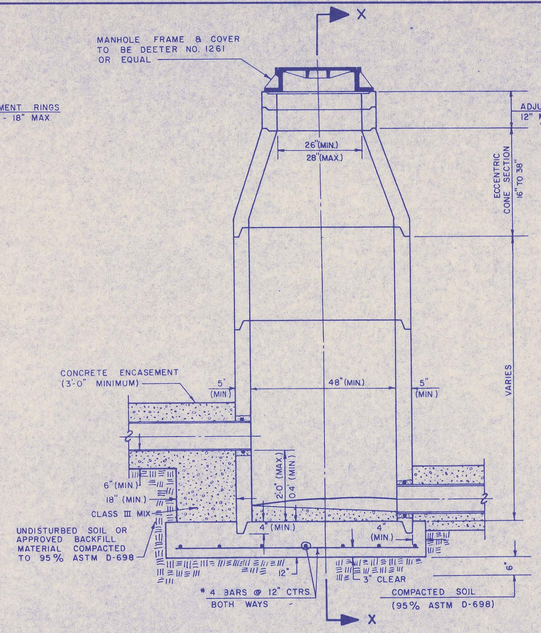
TYPICAL MANHOLE
FLOOR SHAPING

PICKHOLE DETAIL

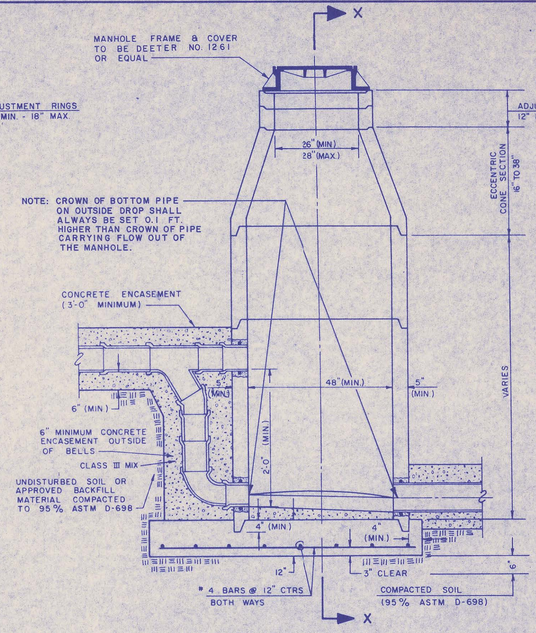




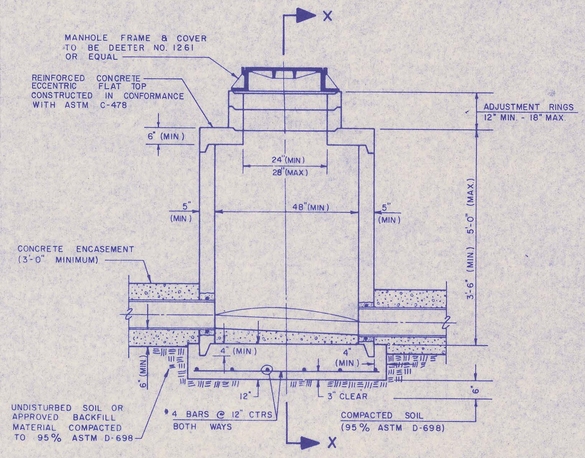
PRECAST
STANDARD MANHOLE
TYPE "A"



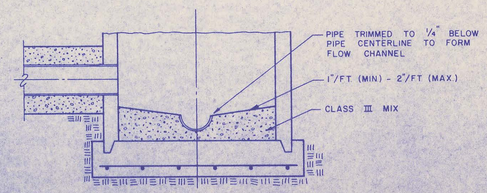
PRECAST
DROP MANHOLE
TYPE "B"



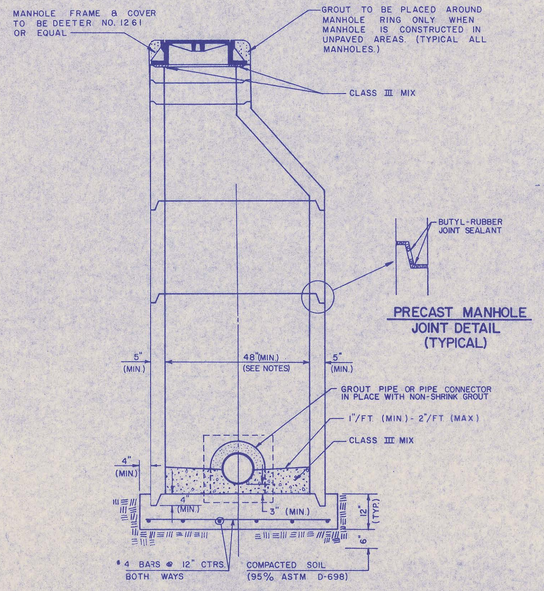
PRECAST
OUTSIDE DROP MANHOLE
TYPE "C"



PRECAST
SHALLOW MANHOLE
TYPE "D"



SECTIONAL ELEVATION - INVERT



PRECAST MANHOLE
JOINT DETAIL
(TYPICAL)

SECTION X
(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 SLOPED 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 2' INSIDE DIAMETER (MIN.).
11. INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.

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. [illegible] DATE 3-31-88
RES. ENG. GME DATE 3-31-88

No.	Revision	By	Date
1	Revised Per Current Standards	RJ	6/86

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

MANHOLE DETAILS

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

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

Designed by MDS, LM, RFJ | Job No. 8105I-5 | Sht. 5 of 24
Drawn by GM, RFJ | Date June, 1985

SECTION 24

NORTHEAST CORNER - 576,997.4513 N 390,454.2600 E
BRASS CAP IN ASPHALT PAVEMENT
58.38' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
40.00' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
45.00' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE

EAST 1/4 CORNER - 574,339.9296 N 390,487.9430 E
CHISELED "+" IN 4" X 4" CONCRETE BLOCK
30.57' ENE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
31.30' WSW, CHISELED "+" IN 4" X 4" CONCRETE WITNESS POST
30.70' W, NAIL AND SHINER IN SOUTH FACE FENCE POST

SOUTHEAST CORNER - 571,686.4559 N 390,526.3780 E
5/8" REBAR IN THIMBLE
81.91' NW, NAIL AND SHINER IN WEST FACE UTILITY POLE
80.61' NE, NAIL AND SHINER IN SOUTHEAST FACE GUY POLE
99.61' SE, CONCRETE R/W MARKER

SOUTH 1/4 CORNER - 57[illegible],642.8813 N 387,888.8180 E
LEAD AND TACK
69.61' N, NAIL AND SHINER IN EAST FACE UTILITY POLE
104.85' SE, NAIL AND SHINER IN WEST FACE FENCE CORNER POST
100.61' SW, NAIL AND SHINER IN EAST FACE UTILITY POLE

SOUTHWEST CORNER - 571,599.4258 N 385,254.1950 E
LEAD AND TACK
91.71' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
75.85' NE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
109.75' SSE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE

WEST 1/4 CORNER - 574,255.7212 N 385,214.0190 E
3/4" IRON PIPE IN THIMBLE
74.67' SE, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
40.54' E, NAIL AND SHINER IN SOUTH FACE FENCE POST
40.05' W, NAIL AND SHINER IN NORTH FACE FENCE POST

NORTHWEST CORNER - 576,910.5923 N 385,178.8040 E
3/4" IRON PIPE IN THIMBLE
61.29' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
63.59' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
66.47' SW, NAIL AND SHINER IN SOUTHEAST CORNER FENCE POST

NORTH 1/4 CORNER - 576,954.0648 N 387,813.4020 E
3/4" IRON PIPE IN THIMBLE
58.38' NW, NAIL AND SHINER IN SOUTHWEST FACE UTILITY POLE
40.00' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
45.00' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE

SECTION 25

NORTHEAST CORNER - (SEE SOUTHEAST CORNER SECTION 24)

EAST 1/4 CORNER - 569,035.1857 N 390,576.3420 E
1" SQUARE BAR IN 10" X 14" STONE
28.56' E, NAIL AND SHINER IN NORTH FACE FENCE POST
47.44' NW, NAIL AND SHINER IN SOUTH FACE FENCE POST
68.25' SSE, NAIL AND SHINER IN TOP OF CORNER FENCE POST

SOUTHEAST CORNER - 566,375.2413 N 390,625.1130 E
BAR WITH ALUMINUM CAP IN THIMBLE
89.14' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
55.18' SSE, NAIL AND SHINER IN SOUTHWEST FACE CORNER FENCE POST
87.05' SW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE

SOUTH 1/4 CORNER - 566,334.7546 N 387,974.1210 E
1/2" IRON PIPE IN THIMBLE
123.64' SE, NAIL AND SHINER IN NORTHEAST FACE UTILITY POLE
59.91' N, NAIL AND SHINER IN WEST FACE FENCE POST
88.13' NW, NAIL AND SHINER IN EAST FACE FENCE POST

SOUTHWEST CORNER - 566,288.8954 N 385,318.8960 E
3/4" IRON PIPE IN THIMBLE
50.98' SW, NAIL AND SHINER IN NORTHWEST FACE CORNER FENCE POST
56.70' NE, NAIL AND SHINER IN SOUTHEAST FACE UTILITY POLE
58.57' NW, NAIL AND SHINER IN EAST FACE UTILITY POLE

WEST 1/4 CORNER - 568,944.8998 N 385,284.1660 E
3/4" IRON PIPE IN THIMBLE
53.95' NE, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
53.94' SE, NAIL AND SHINER IN SOUTHWEST FACE 18" ELM
38.15' W, NAIL AND SHINER IN NORTH FACE UTILITY POLE

NORTHWEST CORNER - (SEE SOUTHWEST CORNER SECTION 24)

NORTH 1/4 CORNER - (SEE SOUTH 1/4 CORNER SECTION 24)

PI 1 - 566,457.0842 N 389,647.5622 E
1/2" REBAR
109.80' SE, NAIL AND SHINER IN CENTERLINE HARRY
95.76' S, NAIL AND SHINER IN CENTERLINE HARRY
138.91' SW, NAIL AND BOTTLECAP AT SECTION LINE

PI 2A - 566,462.3129 N 390,282.9856 E
1/2" REBAR
98.87' SE, NAIL AND SHINER IN CENTERLINE HARRY
47.87' S, NAIL AND SHINER IN EAST FACE FENCE POST
111.20' SW, NAIL AND SHINER IN CENTERLINE HARRY

PI 3A - 567,265.8620 N 390,455.6561 E
1/2" REBAR
22.65' NE, NAIL AND SHINER IN NORTHWEST FACE 7" HACKBERRY
38.41' SE, NAIL AND SHINER IN WEST FACE 12" OSAGE ORANGE
140.66' W, NAIL AND SHINER IN NORTH FACE 12" HACKBERRY

PI 4 - 568,336.1928 N 390,252.0433 E
1/2" REBAR
29.81' NE, 1/2" REBAR ON WEST BANK OF CREEK
40.95' SE, NAIL AND SHINER IN SOUTHWEST FACE 24" ELM
3.94' WNW, NAIL AND SHINER IN NORTHEAST FACE 16" ELM

PI 5 - 568,926.1225 N 390,525.8939 E
1/2" REBAR
52.24' NE, 60d NAIL AND WASHER IN TOP OF FENCE POST
47.90' SE, 1/2" REBAR ON WEST BANK OF CREEK
41.07' W, 1/2" REBAR IN OPEN FIELD

PI 6 - 570,382.5370 N 390,489.8436 E
1/2" REBAR
64.99' NNE, NAIL AND SHINER IN WEST FACE 14" OSAGE ORANGE
40.35' SE, NAIL AND SHINER IN SOUTHWEST FACE 12" OSAGE ORANGE
58.85' WSW, 1/2" REBAR IN OPEN FIELD

PI 7 - 570,450.7679 N 390,255.4355 E
1/2" REBAR
59.67' NE, NAIL AND SHINER IN WEST FACE 18" ELM
54.09' E, NAIL AND SHINER IN SOUTH FACE 12" HACKBERRY
61.59' SW, 1/2" REBAR IN OPEN FIELD

PI 8 - 571,201.3275 N 390,060.8346 E
1/2" REBAR
21.89' E, NAIL AND SHINER IN NORTH FACE 18" HACKBERRY
1.50' S, BARBED WIRE FENCE
176.65' NW, NAIL AND SHINER IN SOUTH FACE 24" ELM

PI 10 - 571,779.4945 N 390,003.2342 E
1/2" REBAR
54.79' NNE, 1/2" REBAR AT TOE OF DIKE
70.17' SE, CHISELED "+" IN NORTHWEST CORNER OF NORHWEST WINGWALL
85.01' WSW, NAIL AND SHINER IN NORTH FACE UTILITY POLE

PI 11 - 571,777.0326 N 389,439.7532 E
1/2" REBAR
23.35' S, NAIL AND SHINER IN EAST FACE 16" PINE
46.11' SW, NAIL AND SHINER IN NORTHWEST FACE UTILITY POLE
37.77' NW, NAIL AND SHINER IN NORTHEAST FACE 12" HACKBERRY

PI 12 - 572,185.8498 N 389,416.3321 E
1/2" REBAR
84.52' ENE, CHISELED "+" IN NORTHWEST CORNER WINDMILL SLAB
81.83' SSW, NAIL AND SHINER IN WEST FACE 24" OSAGE ORANGE
41.01' NW, NAIL AND SHINER IN NORTHEAST FACE 14" HACKBERRY

PI 13 - 572,658.6204 N 388,661.7411 E
1/2" REBAR
64.13' NE, 1/2" REBAR IN OPEN FIELD
42.11' SE, NAIL AND SHINER IN NORTH FACE 5" MULBERRY
96.77' S, NAIL AND SHINER IN WEST FACE 18" OSAGE ORANGE

PI 15 - 572,975.1475 N 387,754.5538 E
1/2" REBAR
115.10' NE, NAIL AND SHINER IN SOUTHWEST FACE 24" OSAGE ORANGE
72.86' SW, NAIL AND SHINER IN EAST FACE 18" COTTONWOOD
112.22' NW, NAIL AND SHINER IN EAST FACE 24" COTTONWOOD

PI 16 - 573,327.3675 N 387,767.9142 E
1/2" REBAR
62.05' ENE, NAIL AND SHINER IN NORTH FACE 6" OSAGE ORANGE
50.59' SSW, 1/2" REBAR IN CENTERLINE ROAD AT 2-15" CMP'S
58.09' NW, 1/2" REBAR IN CENTERLINE DIRT ROAD

PI 17 - 573,486.3966 N 387,483.7651 E
1/2" REBAR
60.00' NE, 1/2" REBAR IN OPEN FIELD
44.48' SW, NAIL AND SHINER IN EAST FACE 48" COTTONWOOD
48.75' NW, 1/2" REBAR IN OPEN FIELD

PI 18 - 574,013.9738 N 387,131.0197 E
1/2" REBAR
68.79' SSW, NAIL AND SHINER IN NORTHWEST FACE 17" ELM
57.56' SW, NAIL AND SHINER IN NORTHWEST FACE 19" COTTONWOOD
30.90' NW, NAIL AND SHINER IN SOUTHWEST FACE 19" HACKBERRY

PI 19 - 574,332.4565 N 387,141.6799 E
1/2" REBAR
43.06' N, 1/2" REBAR IN OPEN FIELD
48.40' SE, NAIL AND SHINER IN NORTHEAST FACE 12" HACKBERRY
53.75' SW, NAIL AND SHINER IN EAST FACE 18" OSAGE ORANGE

PI 20 - 574,321.9632 N 386,895.6014 E
1/2" REBAR
47.16' SSE, NAIL AND SHINER IN WEST FACE 24" OSAGE ORANGE
35.49' SW, NAIL AND SHINER IN NORTH FACE 24" HACKBERRY
99.73 NW, NAIL AND SHINER IN NORTHEAST FACE 18" HACKBERRY

PI 20A - 574,282.5127 N 386,729.3130 E
1/2" REBAR
51.49', NNE, NAIL AND BOTTLECAP IN SOUTHEAST FACE 10" WILLOW
39.23' SSE, NAIL AND BOTTLECAP IN EAST FACE 8" ELM
50.53' WNW, NAIL AND BOTTLECAP IN SOUTH FACE 42" WILLOW

PI 20B - 574,202.5282 N 386,551.8995 E
1/2" IRON PIPE
33.00' NW, SOUTHEAST CORNER WOOD SHED
41.78' NW, SOUTHWEST CORNER WOOD SHED
91.96' SSW, FENCE CORNER

PI 21 - 574,929.8603 N 386,802.1281 E
1/2" REBAR
30.64' NE, NAIL AND SHINER IN SOUTHEAST FACE 10" ELM
63.26' WSW, NAIL AND SHINER IN NORTH FACE UTILITY POLE
47.27' NW, NAIL AND SHINER IN NORTH FACE 6" ELM

PI 21A - 574,926.7034 N 387,106.1817 E
1/2" REBAR
47.04' NE, SANITARY SEWER MANHOLE
90.32' SE, 1/2" REBAR 1.0' NORTH OF 6' CHAIN LINK FENCE
66.33' SW, 2" GALVANIZED FENCE CORNER POST

PI 22 - 574,965.3111 N 386,488.5396 E
1/2" REBAR
23.11' NE, NAIL AND SHINER IN WEST FACE 24" HACKBERRY
10.50' S, NAIL AND SHINER IN WEST FACE 36" OSAGE ORANGE
56.03' NW, NAIL AND SHINER IN SOUTH FACE 12" OSAGE ORANGE

PI 25 - 575,366.9221 N 385,697.7736 E
1/2" REBAR
59.88' N, NAIL AND SHINER IN WEST FACE 60" COTTONWOOD
14.60' SSE, NAIL AND SHINER IN WEST FACE 22" ELM
86.87' NW, NAIL AND SHINER IN NORTHEAST FACE 27" COTTONWOOD

PI 24 - 575,857.4701 N 385,829.3257 E
1/2" REBAR
65.71' NNE, NAIL AND SHINER IN EAST FACE 18" OSAGE ORANGE
65.18' SSE, NAIL AND SHINER IN WEST FACE CORNER FENCE POST
8.98' W, NAIL AND SHINER IN NORTH FACE UTILITY POLE

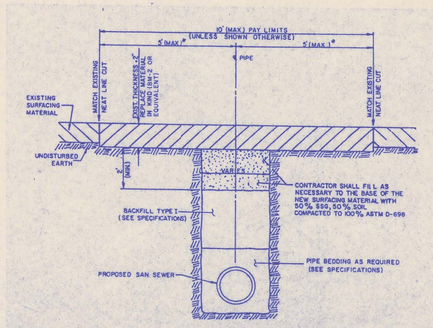
PI 25 - 576,378.7401 N 385,842.4241 E
1/2" REBAR
73.85' NE, NAIL AND SHINER IN WEST FACE 12" ELM
20.30' SE, NAIL AND SHINER IN NORTH FACE 12" HACKBERRY
63.31' SW, NAIL AND SHINER IN SOUTHEAST FACE 12" ELM

PI 26 - 576,569.2456 N 385,830.1136 E
1/2" REBAR
49.33', ENE, NAIL AND SHINER IN SOUTH FACE 18" ELM
22.09' SSW, NAIL AND SHINER IN EAST FACE UTILITY POLE
66.87' NW, CHISELED "+" IN TOP EAST END OF CONCRETE BOX CULVERT

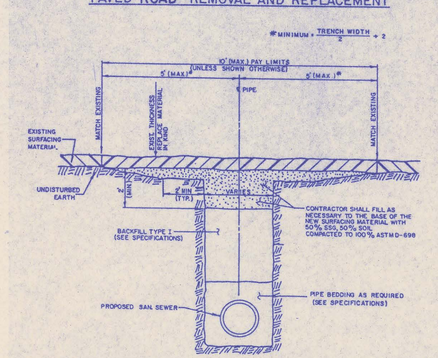
PI 27 - 576,689.2193 N 385,909.8735 E
1/2" REBAR
41.97' NE, 1/2" REBAR AT TOP OF SLOPE
57.82' ENE, NAIL AND SHINER IN SOUTH FACE 12" ELM
41.36' ESE, NAIL AND SHINER IN NORTH FACE 18" ELM

PI 30 - 576,881.7442 N 385,742.6410 E
1/2" REBAR
34.34' E, NAIL AND SHINER IN NORTH FACE UTILITY POLE
62.92' SSW, CHISELED "+" IN TOP NORTH END OF CONCRETE BOX CULVERT
42.15' NW, CHISELED "+" IN TOP CONCRETE GUARD POST

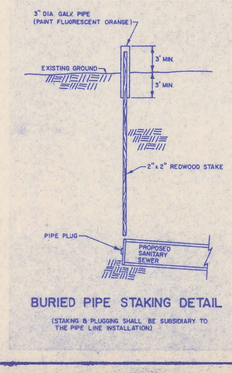
PI 31 - 576,992.9682 N 385,771.7988 E
CHISELED "+" ON IRON LID OF PUMP STATION
43.50' SE, NAIL AND BOTTLECAP IN NORTH FACE UTILITY POLE
52.70' SW, 7' FENCE CORNER POST
57.30' NW, 7' FENCE CORNER POST



PAVED ROAD-REMOVAL AND REPLACEMENT

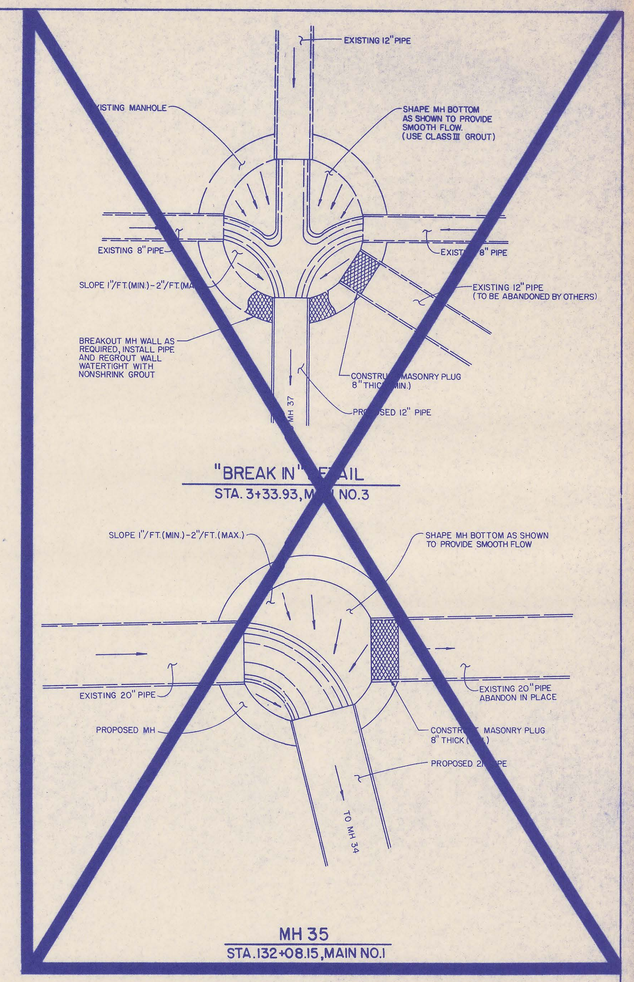


UNPAVED DRIVE-REMOVAL AND REPLACEMENT

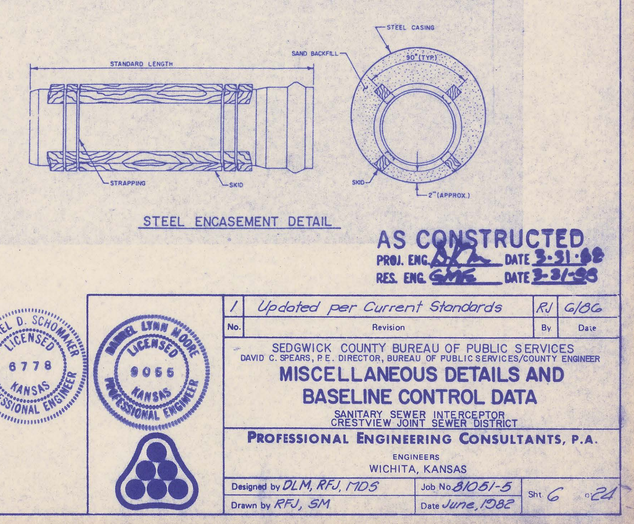


BURIED PIPE STAKING DETAIL

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



"BREAK IN" DETAIL
STA. 3+33.93, MAIN NO.3



MH 35
STA. 132+08.15, MAIN NO.1

STEEL ENCASEMENT DETAIL

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-31-98
RES. ENG. [illegible] DATE 3-31-98

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DANIEL LYNN MOORE LICENSED 9056 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date
1	Updated per Current Standards	RJ	6/06

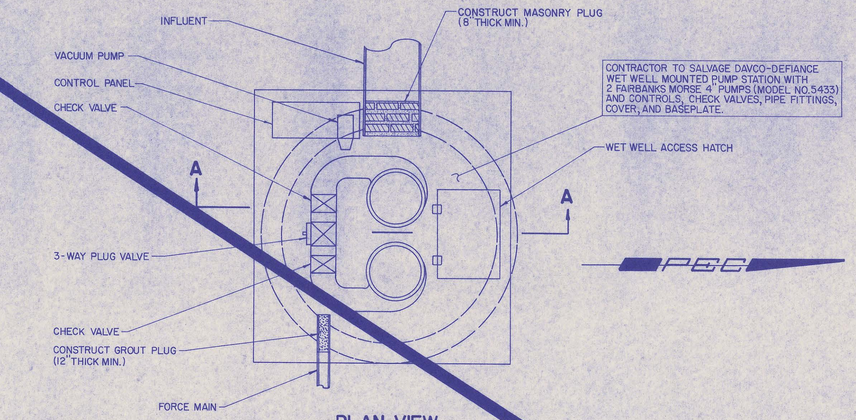
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DAVID C. SPEARS, P.E. DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

MISCELLANEOUS DETAILS AND BASELINE CONTROL DATA

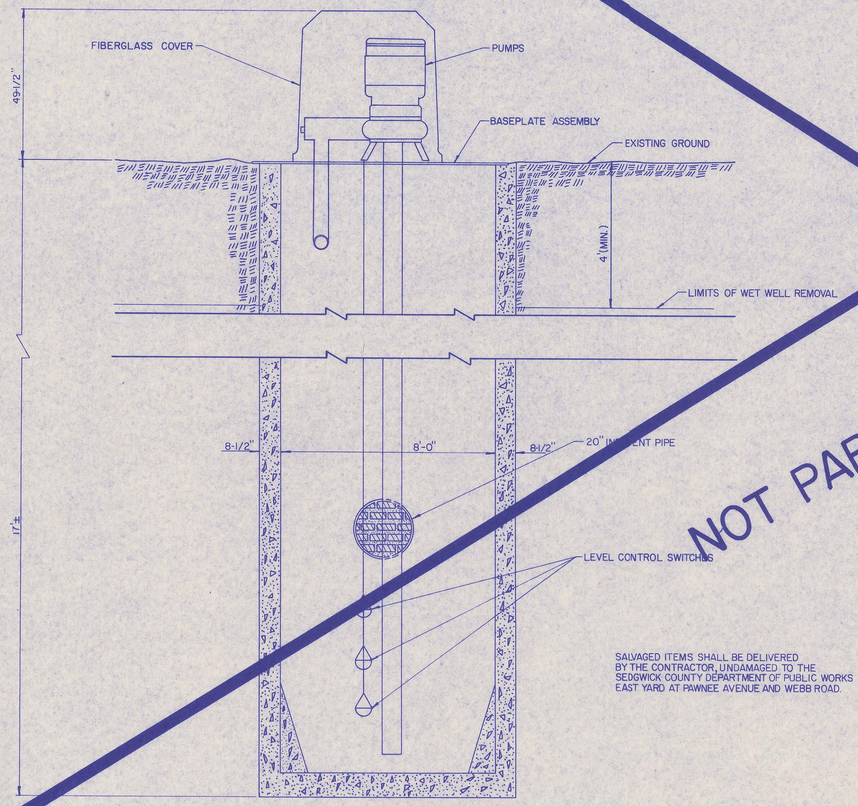
SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

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

Designed by DLM, RFJ, MDS | Job No. 31051-5
Drawn by RFJ, SM | Date June, 1982
Sht. 6 of 21



PLAN VIEW



SECTION A-A
LIFT STATION DEMOLITION PLAN

SALVAGED ITEMS SHALL BE DELIVERED BY THE CONTRACTOR, UNDAMAGED, TO THE SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS EAST YARD AT PAWNEE AVENUE AND WEBB ROAD.

NOTES:

1. AFTER MAIN NO. 1 HAS BEEN COMPLETED AND PLACED INTO SERVICE SO THAT THE CRESTVIEW LIFT STATION IS NO LONGER IN USE, THE CONTRACTOR SHALL DEMOLISH THE LIFT STATION AS DIRECTED HEREIN. THE CONTRACTOR SHALL COORDINATE SALVAGE AND DEMOLITION OPERATIONS WITH THE ENGINEER BEFORE BEGINNING WORK.

2. THE CONTRACTOR SHALL COMPLETELY DRAIN ALL WASTEWATER FROM THE 4-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 METER AND DISCONTINUING OF SERVICE.

4. THE WASTEWATER PUMPS, CONTROL PANEL, VALVES, PIPE FITTINGS, AND ANY OTHER SALVAGEABLE ITEMS SHALL BE CAREFULLY REMOVED FROM THE LIFT STATION AND DELIVERED TO A STORAGE SITE AS DIRECTED BY THE ENGINEER.

5. ALL PIPE CONNECTIONS TO THE LIFT STATION AND WET WELL SHALL BE PLUGGED AS SHOWN ON THIS SHEET.

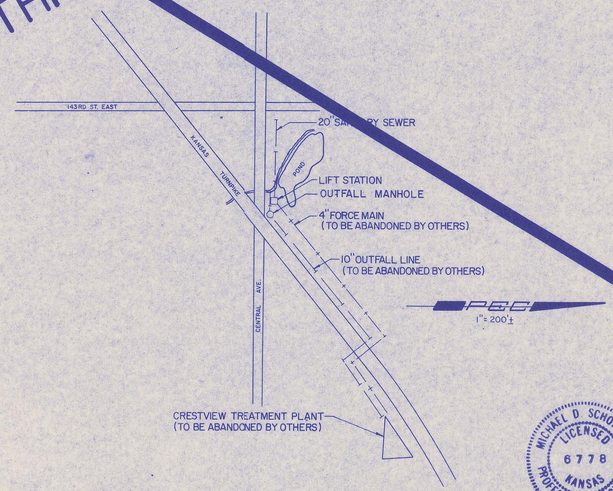
6. THE WET WELL MANHOLE AND THE LIFT STATION SHALL BE ABANDONED IN PLACE BY REMOVING ANY WALLS, PIPES, CONDUIT, OR OTHER MATERIALS TO A DEPTH OF AT LEAST 4 FEET BELOW EXISTING GRADE. DRAINAGE OF THE LIFT STATION SHALL BE PROVIDED BY PUNCTURING OR BREAKING THE WALLS OF THE STRUCTURE WITHIN ONE FOOT OF THE STRUCTURE FLOOR. THE STRUCTURE THEN SHALL BE COMPLETELY FILLED WITH APPROVED SAND MATERIAL TO WITHIN TWO FEET OF GRADE. THE FINAL TWO FEET SHALL BE BACKFILLED WITH APPROVED MATERIAL COMPACTED AS REQUIRED FOR TRENCH BACKFILL.

7. DEBRIS SUCH AS BRICK, GROUT, AND BROKEN CONCRETE FROM DEMOLITION OF THE STRUCTURE MAY BE DEPOSITED IN THE BOTTOM OF THE STRUCTURE AS FILL. THE LARGEST DIMENSION IN ANY DIRECTION OF MATERIAL DISPOSED IN THIS MANNER SHALL BE NO MORE THAN 18 INCHES.

8. ALL AREAS DISTURBED BY THIS WORK SHALL BE REGRADED TO THE ORIGINAL CONTOURS AND SEEDED AS DIRECTED IN THE SPECIFICATIONS.

9. THE 10" OUTFALL LINE, BALANCE OF THE 4" FORCE MAIN AND THE CRESTVIEW SEWAGE TREATMENT PLANT SHALL BE ABANDONED BY OTHERS UPON COMPLETION AND ACCEPTANCE OF MAIN NO'S. 1, 2, AND

NOT PART OF THIS PROJECT



LOCATION MAP
(INTERCEPTOR IMPROVEMENTS NOT SHOWN)

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

CRESTVIEW LIFT STATION DEMOLITION

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

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

Designed by DLM, RFJ, MDS | Job No. 81051-5 | Sht. 7 of 24
Drawn by SM | Date June, 1982

HARRY STREET

Clarifiers

Sludge Processing Building

Control Structures

Plant Road

Sta. 0+75.00
Begin "Main No. 1"
Connect to existing
21" Pipe*

Sta. 0+00.00
Existing MH T84
See Proj. No.
34-81051-1-024

"B" A" Sta 12+74.58
~~10+00~~ Left
~~166.12'~~

"B" A" Sta ~~12+01.43~~ 12+01.68
~~164.67' Left~~ 161.55' Left

Main No. 1

6" Hackberry
18" Osage Orange

Sta. 4+48.56
Const. MH. 1 T87
Type A, ~~5' dia.~~ 4' dia.
HDPE, See Spec.
Section 01030
w/ self sealing lid

20+50.11
"B" A" Sta ~~20+50.00~~
~~100.00'~~ Left
99.94'

375.64
Install ~~373.56~~ L.F.
21" Pipe

Baseline "A"

20+00

Sta. 14+57.33 back
"B" A" Sta 17+05.32 ahead

Sedgwick County
Butler County

Recreation Basin

Baseline "A"

10+00

"Contractor shall field verify location and flow line elevation of existing 21" Pipe prior to beginning construction. If 21" Pipe is not existing, the Contractor shall plug and stake the new line at sta. 0+75.00 (See detail sheet no. C.)

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

No.	Description	By	Date
3	Rev. MH 1	DM	2/86
2	Updated Per Current Standards	RV	6/85
1			

AS CONSTRUCTED
PROJ. ENG. _____ DATE _____
RES. ENG. _____ DATE _____

ALL AERIAL PHOTOS PROVIDED BY M. A. HARDEN ASSOCIATES, INC. FLOWN MARCH 1982

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

Existing MH T86
Begin Main No. 1
Existing Ground
MH 1 T87
Top Elev. 1280.52
Type II Backfill
375.64
~~373.56~~ L.F. 21" Pipe
@ 0.15%
I.E. OUT = 1272.06
I.E. IN = 1272.31
I.E. = 1272.42
I.E. OUT = 1272.94
I.E. IN = 1273.02

1300 1295 1290 1285 1280 1275 1270 1265 1260

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

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MINNE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, LM, RFJ | Job No. 34-81051-5
Drawn by GM, SM | Date June, 1982

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

Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 8 of 24

No.	Revision	By	Date
1	Rev. MH 2	DM	3/86

13" Hackberries

Osage Orange

Hackberries 12"

Sta. 4+48.56
MH 1

MAIN No. 17

Sta. 3+66.74
Const. MH 2 4' Dia.
Type A 5' Dia.
HDPE, See Specs.
Section 01030
Self-seating lid

Remove and Reset fence as required

Sta. 13+64.17
Const. MH 3
Type A 5' Dia.
7' Dia.

Hackberry 12"

MAIN No. 1

Baseline "A"

P.I. Sta. 14+17.55 Back
P.I. Sta. 17+00.00 Ahead

20+50.11
℄ "A" Sta. ~~20+50.00~~ 100.00' Left
99.04'

517.84
Install ~~518.18~~ L.F. 21" Pipe

℄ "A" Sta. 25+67.00
65.00' Left

3~~98.21~~
Install ~~397.43~~ L.F. 21" Pipe

℄ "A" Sta. 29+57.82
15.87' Left

48" Osage Orange

Cedar Creek

Four Mile Creek

Sedgwick County

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

AS CONSTRUCTED
PROJ. ENGINEER [illegible] DATE 3-21-88
RES. ENG. GME DATE 2-27-89

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARRELL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

T87
MH 1
Top Elev. ~~1295.16~~ 1290.92
Existing Ground
T88
MH 2
Top Elev. ~~1290.77~~ 1288.77
Existing Ground
T89
MH 3
Top Elev. ~~1288.15~~ 1288.15

Type II Backfill

Type III Backfill

℄ Out = 1272.94
~~℄ Out = 1272.98~~
℄ In = 1273.02

5178.4
~~518.18~~ L.F. 21" Pipe @ 0.15 %

℄ Out = 1273.71
~~℄ Out = 1273.76~~
℄ In = 1273.73

396.21
~~397.43~~ L.F. 21" Pipe @ 0.15 %

℄ Out = 1274.31
~~℄ Out = 1274.36~~
℄ In = 1274.36

1300 1295 1290 1285 1280 1275 1270 1265 1260

4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00

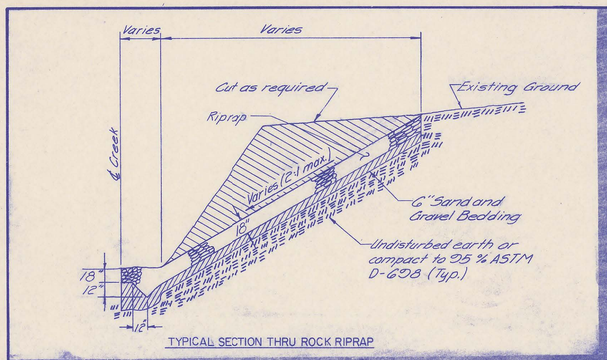
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, LLH, RKJ | Job No. 34-81051-5
Drawn by GFT, SVT | Date June, 1982

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

N | Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 3 of 24



TYPICAL SECTION THRU ROCK RIPRAP

Sta 13+64.17
MH 3

Barbwire Fence

Sta 16+58.05
Const. MH 4
Type A ~~5' Dia.~~ 4' Dia.

Sta 16+58.06 to Sta 17+92.09
Const. 140.00 L.F.
21" Concrete Encasement

Sta 19+31.93
Const. MH 5
Type B ~~5' Dia.~~ 4' Dia.

Remove and Reset fence as required

LINCOLN STREET
(ASPHALT PAVEMENT)

Woven Wire Fence

Wood Fence

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

40' Temp. Const. Esmt.

30' San. Sew. Esmt.

Baseline "A"

Barbwire Fence

159th ST. EAST
(ASPHALT PAVEMENT)

MAIN No. 17

294.27
Install ~~293.68~~ L.F. 21" Pipe

333.96
Install ~~333.88~~ L.F. 21" Pipe

℄ "A" Sta 29+37.22
15.83' Left

℄ "A" Sta 33+61.05
21.46' Left

℄ "A" Sta 35+22.46
4.69' Left

Install 464 S.Y. ROCK Riprap as shown (See detail, this sheet)

Fault Mile Creek

Sedgwick County
Butler County

48" Drainage Culvert

Baseline "A"

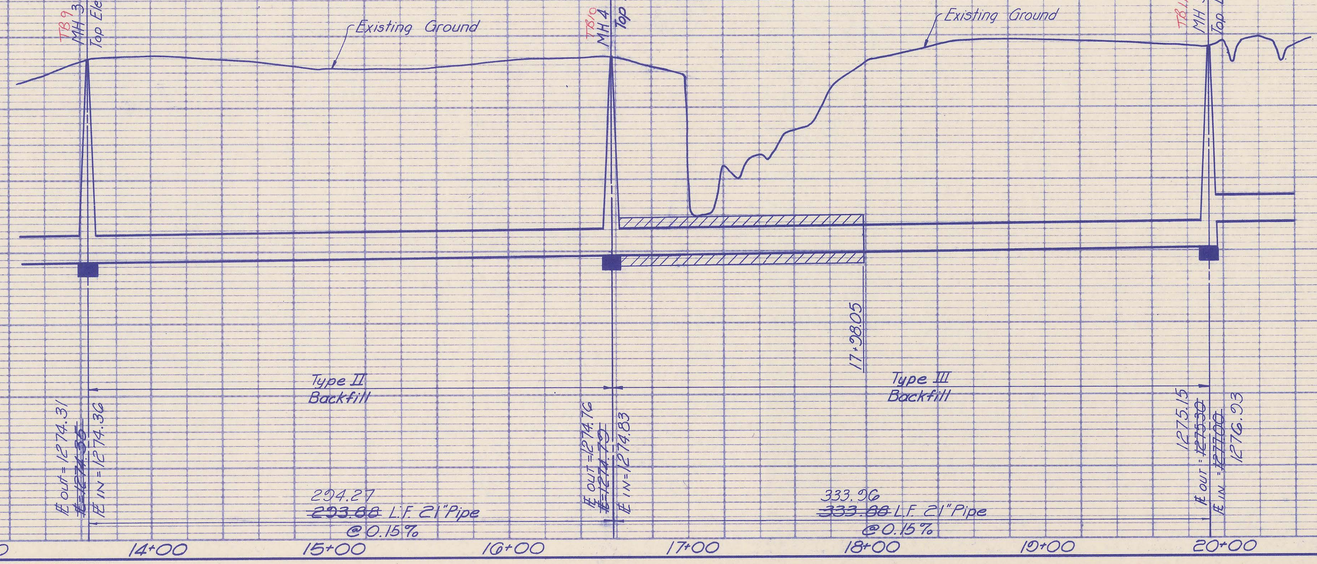
PI 0
PI 1
PI 2
PI 3
PI 4
PI 5
PI 6

29+00
30+00
31+00
32+00
33+00
34+00
35+00

1 | 6/84 | RJ | Updated per current Standards
Revision | By | Date

AS CONSTRUCTED
PROJ. ENG. _____ DATE 2-24-86
RES. ENG. _____ DATE 2-27-86

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.



MICHAEL D. SCHOMMER LICENSED 6178 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, LM, RFJ | Job No. 34-01051-5
Drawn by GM, SM | Date June, 1982

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
DIV. OF PUBLIC WORKS
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

N Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 10 of 24

Sta. 19+91.93
MH 5

Main No. 17

Baseline "A"

@ "A" Sta. 35+92.46
4.69' Left

CAUTION !
Buried Telephone Cable

LINCOLN STREET
(ASPHALT PAVEMENT)

Wood Fence

Barbwire Fence

Remove and Replace
22 S.Y. Paved Road
(See detail, Sht. No. 6)

Remove and reset
fence as required

40' Temporary Construction Easement

30' Sanitary Sewer Easement

Main No. 17

Sta. 24+70.61
Const. MH 6
Type A. ~~5' Dia.~~ 4' Dia.

Sta. 29+49.29
Const. MH 7
Type A. ~~5' Dia.~~ 4' Dia.

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

Sedgwick County
Butler County

159th ST. EAST
(ASPHALT PAVEMENT)

Install ~~478.03~~ L.F.
21" Pipe

Install ~~478.03~~ L.F.
21" Pipe

@ "A" Sta. 40+71.13
1.80' Left

@ "A" Sta. 45+49.81
0.96' Right

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-21-83
RES. ENG. [illegible] DATE 3-21-83

Revised per current standards — 2-1-83 — GLEG

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TBM 5
MH 5
Top Elev. ~~1289.92~~ 1289.53

TBM 6
MH 6
Top Elev. ~~1292.20~~ 1292.15

TBM 7
MH 7
Top Elev. ~~1291.60~~ 1291.08

Existing Ground

Type III Backfill

E out = ~~1276.46~~ 1276.56
E in = ~~1276.03~~ 1276.03

~~478.03~~ 478.68 L.F. 21" Pipe @ 0.20 %

E out = ~~1277.96~~ 1277.95
E in = ~~1278.02~~ 1278.02

Type III Backfill

~~479.95~~ 478.68 L.F. 21" Pipe @ 0.20 %

E out = ~~1278.51~~ 1278.73
E in = ~~1278.08~~ 1278.08

1300 1295 1290 1285 1280 1275 1270 1265 1260

19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DANIEL LYNN KOHL LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

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

Designed by MDS, LM, RPJ
Drawn by GM, SM

Job No. 34-81051-5
Date June, 1982

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

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

M Interceptor B

Sht. 11 of 24

Sta. 29+49.29
MH 7

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

Sta. 34+27.97
Const. MH 8
Type A. ~~5' Dia.~~ 4' Dia.

MANH. No. 17

40' Temporary Construction Easement

TB17 — 41 — MAIN No. 17 — 42 — 30' Sanitary — 45+00 — MH5 Sewer — 46 — 47 — Easement — Baseline "A" — 49 — PI 0 — TB14

Barbwire Fence
Sedgwick County
Butler County

159th ST. EAST
(ASPHALT PAVEMENT)

Tele. Warning Sign
CMP
Concrete Culvert

℄ "A" Sta. 45+40.31
0.96 Right

470.40
Install 478.68 L.F.
21" Pipe

℄ "A" Sta. 32+06.31
32.00 Right

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 3-31-82
RES. ENG. GMS DATE 3-31-82

1 Updated Per Current Standards — RJ — 6/82

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TB13 MH 7 1291.08 Top Elev. ~~1291.10~~

TB14 MH 8 Top Elev. ~~1292.96~~ 1292.87

Existing Ground

Type III Backfill

℄ OUT = 1279.73
℄ ~~1279.91~~
℄ IN = 1278.36

479.40
~~478.68~~ L.F. 21" Pipe
@ 0.20 %

℄ OUT = 1279.67
℄ ~~1280.07~~
℄ IN 1279.52

1300 1295 1290 1285 1280 1275 1270 1265 1260

20+00 30+00 31+00 32+00 33+00 34+00 35+00

MICHAEL D. SCHUMACHER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN WISE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

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

Designed by MDS, LM, RFU
Drawn by GM, SM
Job No. 34-81051-5
Date June, 1982

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

M Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 12 of 24

Sta. 34+27.97
MH 8

Sta. 36+58.60
Const. MH 9
Type A, ~~3' Dia.~~ 4' Dia.

Sta. 40+52.36
Const. MH 10
Type A ~~3' Dia.~~ 4' Dia.

Sta. 44+60.12
Const. MH 11
Type A ~~3' Dia.~~ 4' Dia.

SCALE
PLAN 1"=40'
PROFILE
HORIZ. 1"=40'
VERT 1"=8'

30' Sanitary Sewer Easement

Temporary Construction Easement

Temporary Construction Easement

Remove and Reset fence as required

Barbwire fence

24" Elm

159th ST. EAST
(ASPHALT PAVEMENT)

Baseline "A"

MAIN No. 13

42" CMP

Concrete Culvert Butler County

15' Sedgwick County

℄ "A" Sta. 30+00.00
32.00' Right

℄ "A" Sta. 32+00.00
20.00' Left

Install ~~230.63~~ 230.20 L.F.
21" Pipe

Install ~~400.76~~ 401.15 L.F.
21" Pipe

Install ~~400.76~~ 399.92 L.F.
21" Pipe

℄ "A" Sta. 56+17.00
6.81' Right

℄ "A" Sta. 60+19.66
12.00' Right

AS CONSTRUCTED
PROJ. ENG. _____ DATE 2-91
RES. ENG. _____ DATE 2-91

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TB14
MH 8
Top Elev. = ~~1296~~ 1295.84
1292.87

TB15
MH 9
Top Elev. = ~~1294~~ 1294.61
1292.61

TB16
MH 10
Top Elev. = ~~1295~~ 1294.83
1290.40

TB17
MH 11
Top Elev. = ~~1296~~ 1296.40
1292.34

Existing Ground

IE OUT = ~~1279.67~~ 1279.67
IE IN = ~~1280.07~~ 1280.07
1275.92

IE OUT = ~~1280.53~~ 1280.53
IE IN = ~~1280.73~~ 1280.73
1280.16

IE OUT = ~~1291.53~~ 1291.63
IE IN = 1291.64

IE OUT = ~~1292.33~~ 1292.33
IE IN = 1292.31

Type III Backfill

230.20 ~~230.63~~ L.F. 21" Pipe @ 0.20 %

401.15 ~~400.76~~ L.F. 21" Pipe @ 0.20 %

399.92 ~~400.76~~ L.F. 21" Pipe @ 0.20 %

1305 1300 1295 1290 1285 1280 1275 1270 1265

34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00

MICHAEL D. SCHOMMER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

JARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

No.	Description	By	Date
1	Updated per current standards	RJ	6/86

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

Designed by MDS, LM, RFJ | Job No. 34-81051-5
Drawn by GM, SM | Date June, 1982

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

M. Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 13 of 24

Sta. 44+60.16
MH 11

Remove and Reset fence as required.

Sta. 48+34.40
Const. MH 12
Type A ~~3' Dia.~~ 4' Dia.
w/self-sealing lid

Remove and Reset fence as required.

Sta. 50+39.99
Const. MH 13
Type B ~~5' Dia.~~ 4' Dia.
w/self-sealing lid

(EASTBOUND LANE)

(WESTBOUND LANE)

Wood Fence

Gate

KELLOGG

(U.S. 54)

3-3" Services @ Main No. 12

Utility Pole

Overhead Power Lines

24" Hackberry

30' San. Sew. Esmt.

Temp. Const. Esmt.

40'

Temporary

Construction

Baseline "A"

Main No. 1

20'

10'

Temporary

Construction

Easement

30' San. Sew. Esmt.

Barbwire Fence

Easement

CAUTION!
Buried Utilities

Install ~~600.00~~ L.F. 21" Pipe

G00.57

Install 1-10" Stub and plug.

Future Southeast Interceptor Project No. 68-0151-G-024

371.82
Install ~~374.28~~ L.F. 21" Pipe

46.00

31°00'00"

P.I. Sta. 63+28.32
16.20 Right

B "A" Sta. 60+19.66
12.00 Right

B "A" Sta. 63+00.11
0.19 Left

208.58 L.F. (Typ.)
Const. ~~205.53~~ L.F. Boring and Install ~~205.53~~ L.F. ~~30" S.P. Encmt.~~ 30" R.C.P. Encmt. and ~~205.53~~ L.F. 20" Casing
(See detail, Sht. No. 6)

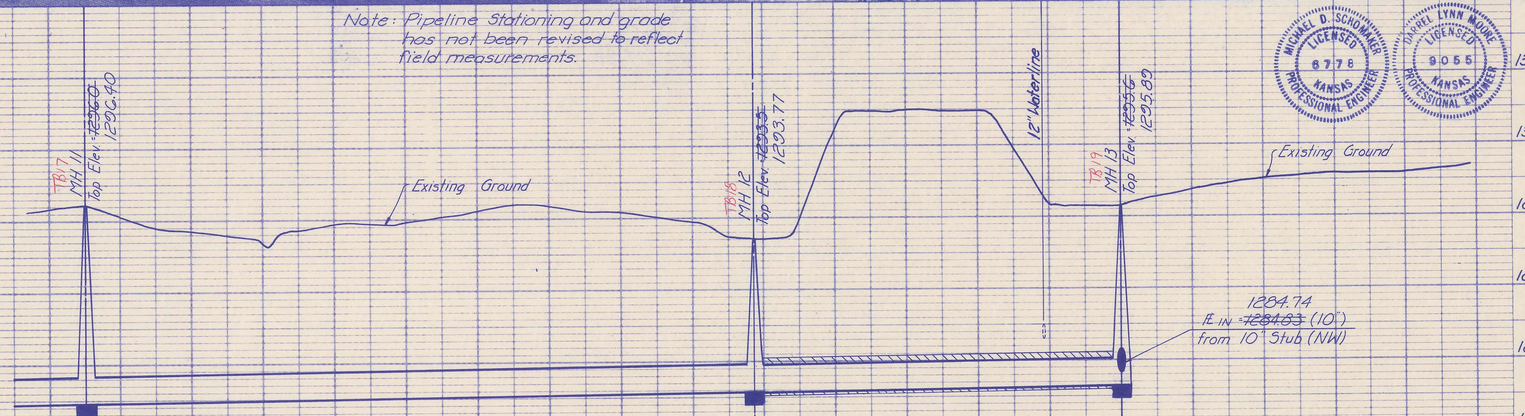
Remove and Reset fence as required.

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

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE [illegible]
RES. ENG. [illegible] DATE 3-84

No.	Revision	By	Date
1	Updated Per Current Standards	RH	6/86

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.



(Continued on following sht.)

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN ROUSE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

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

Designed by MDS, LM, RH | Job No. 34-01051-5
Drawn by GM, SM | Date June, 1982

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

Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 1A of 24

(EASTBOUND LANE) KELLOGG (U.S. 54)

(WESTBOUND LANE)

Sta. 56+39.99
Const. MH 14
Type: A, ~~5' Dia.~~ 4' Dia.

Remove and Replace
12 S.Y. Unpaved drive
(See detail, Sht. No. 6)

Wire Fence

30' San. Sew. Esmt.

Main No. 1

40' Temp. Const. Esmt.

Group of 12" Osage Orange

10" Hackberry

Mulberry

10" Pine

20" Pine

℄ "A EXT.", Sta. 71+79.97
3.75' Left

IDENTICAL POINTS

Sta. 56+39.99
MH 14

Sta. 58+05.55
Const. MH 15
Type: A, ~~5' Dia.~~ 4' Dia.

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

Updated per current standards

No.	By	Date
1	RJ	6/86

(EASTBOUND LANE) KELLOGG (U.S.54)

(WESTBOUND LANE)

Gate

Group of 12" Osage Orange

Four Mile Creek

20' Pub. Const. Esmt.

30' San. Sew. Esmt. Main No. 1

40' Temp. Const. Esmt.

Baseline "A"

Hackberry

Pine

163.65
Install ~~165.56~~ LF
21" Pipe

℄ "A EXT.", Sta. 71+79.97
3.75' Left

℄ "A", Sta. 73+23.00
20.00' Left

AS CONSTRUCTED
PROJ. ENG. DAA DATE 3-31-88
RES. ENG. SMS DATE 3-31-88

Note: Pipeline stationing and grade has not been revised to reflect field measurements.

Existing Ground

TB20
MH 14
Top Elev. 1300.44
1300.18

Type III Backfill

E=1235.09
E out=~~1235.00~~
E in=~~1234.22~~

(Continued from preceding sheet)

Existing Ground

TB20
MH 14
Top Elev. 1300.44
1300.18

TB21
MH 15
Top Elev. 1300.20
1301.45

Type III Backfill

E=1235.09
E out=~~1235.00~~
E in=~~1234.22~~

163.65
~~165.56~~ LF 21" Pipe
@ 0.15 %

1235.40
E=~~1235.35~~

1305 1300 1295 1290 1285 1280 1275 1270 1265

52+00 53+00 54+00 55+00 56+00 56+00 57+00 58+00 59+00

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

DARRELL LYNN MOUNT LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

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

Designed by MDS, LM, RFJ | Job No. 34 81051-5
Drawn by GH, SM | Date June, 1982

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

N Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 15 of 24

Sta. 58+05.53
MH 15

Sta. 61+59.39
Const. MH 16
Type A, 5' Dia. ~~4' Dia.~~

Sta. 65+11.37
Const. MH 17
Type A, 5' Dia. ~~4' Dia.~~
w/self-sealing lid

Sta. 68+64.55
Const. MH 18
Type A, 5' Dia. ~~4' Dia.~~
w/self-sealing lid

℄ "A" Sta. 73+23.00
20.00' Left

353.91
Install ~~353.84~~ L.F.
21" Pipe

20' Temp. Const. Esmt.

30' San. Sew. Esmt.

40' Temp. Const. Esmt.

℄ "A" Sta. 77+40.00
20.00' Left

353.10
Install ~~352.58~~ L.F.
21" Pipe

℄ "A" Sta. 80+32.50
12.50' Left

351.15
Install ~~352.58~~ L.F.
21" Pipe

℄ "A" Sta. 84+45.00
5.00' Left

Main No. 17

Baseline "A"

Sycamore

Hay Shed

Fence

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

AS CONSTRUCTED
PROJ. ENG. _____ DATE 3-31-82
RES. ENG. _____ DATE 3-31-82

Located Per Current Standards

Rel.	G.S.C.
By	Date
Revision	

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

TB-21 MH 15 Top Elev. ~~1306.01~~ 1301.45

Existing Ground

TB-22 MH 16 Top Elev. ~~1298.78~~ 1298.24

TB-23 MH 17 Top Elev. ~~1296.53~~ 1296.60

TB-24 MH 18 Top Elev. ~~1297.68~~ 1297.20

Type III Backfill

1305.60
I.E. ~~1285.60~~

353.91
~~353.84~~ L.F. 21" Pipe
@ 0.15%

1286.04
I.E. ~~1285.30~~

353.10
~~352.58~~ L.F. 21" Pipe
@ 0.15%

1286.59
I.E. ~~1286.51~~

351.15
~~352.58~~ L.F. 21" Pipe
@ 0.15%

1287.10
I.E. ~~1287.04~~

1310 1305 1300 1295 1290 1285 1280 1275 1270

58+00 59+00 60+00 61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00

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

Designed by MDS LM, RFJ | Job No. 34-81051-5
Drawn by GM, SM | Date June, 1982

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

Main Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 16 of 24

Sta. 68+61.55
MH 18

Sta. 73+30.13
Const. MH 19
Type A, ~~5' Dia.~~ 4' Dia.
w/self-sealing lid

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

Updated per current standards
Revision
By
Date

Remove and Reset fence as required.

Sta. 77+90.07
Const. MH 20
Type A, ~~5' Dia.~~ 4' Dia.
w/self-sealing lid

Temporary Sanitary Sewer Construction Easement

Temporary Sanitary Sewer Construction Easement

MAIN No. 17

MAIN No. 17

Baseline "A"

265.38
Install ~~465.62~~ LF
21" Pipe

461.06
Install ~~459.90~~ LF
21" Pipe

℄ "A" Sta. 84+45.00
5.00' Left

℄ "A" Sta. 88+30.00
130.00' Left

℄ "A" Sta. 93+24.75
on ℄

AS CONSTRUCTED
PROJ. ENG. DATE
RES. ENG. DATE

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TB24
MH 18
Top Elev. ~~1299.60~~ 1297.20

TB25
MH 19
Top Elev. ~~1297.75~~ 1297.95

TB26
MH 20
Top Elev. 1300.00

Existing Ground

Existing Ground

Type III Backfill

Type III Backfill

1287.10
E ~~1287.02~~

1287.02
E ~~1287.74~~

E ~~1288.43~~ 1288.43
E ~~1288.43~~ 1288.43

465.38
~~465.62~~ L.F. 21" Pipe
@ 0.15 %

461.06
~~459.90~~ L.F. 21" Pipe
@ 0.15 %

1310 1305 1300 1295 1290 1285 1280 1275 1270

68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN WORK LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, LW, RFU
Drawn by GM, SM
Job No. 34-81051-5
Date June, 1982

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

Interceptor B ( ).

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 17 of 24

Sta. 77+90.07
MH 20

Sta. 79+77.63
Const. MH 21
Type A ~~5 Dia.~~ 4' Dia.
w/self-sealing lid

Sta. 83+11.10
Const. MH 22
Type A ~~5 Dia.~~ 4' Dia.
w/self-sealing lid

Sta. 86+44.53
Const. MH 23
Type A ~~5 Dia.~~ 4' Dia.
w/self-sealing lid

Pipe Fence

20' Temp. Const. Esmt.
MAIN No. 12

40' Temp. Const. Esmt.

Restore Travelway as required

Temp. Const. Esmt.

Sewer Const. Baseline "A"

Temp. Const. Esmt.

Existing Fence

Existing Gas Line

Existing Telephone Conduit

Existing Water Line

Existing Oil Line

Existing Oranges

Existing Trees

183.24
Install ~~187.56~~ L.F. 21" Pipe

333.90
Install ~~333.48~~ L.F. 21" Pipe

332.54
Install ~~333.48~~ L.F. 21" Pipe

℄ "A" Sta. 93+24.75 on ℄

℄ "A" Sta. 95+60.00 62.16 Right

℄ "A" Sta. 99+31.89 39.78 Left

℄ "A" Sta. 102+60.00 20.00 Left

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

AS CONSTRUCTED
PROJ. ENG. _____ DATE 3-24-83
RES. ENG. CME DATE 3-24-83

1 Updated per Current Standards KRL 2/82
No. | | Date | By | Revision

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

| | | |

Sta. 86+44.59
MH 23

CAUTION!
Gas Pipeline

Sta. 91+68.91
Const. MH 24
Type A 5' Dia. 4' Dia.
w/self-sealing lid

Sta. 96+48.07
Const. MH 26
Type B 5' Dia. 4' Dia.
w/self-sealing lid

Sta. 04+13.01
Const. MH 25
Type A 5' Dia. 4' Dia.
w/self-sealing lid

Main No. 2
See Sht. No. 24

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

36" Cottonwood
12" Mulberry
18" Elm
8" Elm
Fence Post
Fence Post
Fence Post

Main No. 2
See Sht. No. 24

Sta. 96+48.01
MH 26

Sta. 99+72.06
Const. MH 27
Type A, ~~5' Dia.~~ 4' Dia.
w/self-sealing lid

Sta. 102+96.05
Const. MH 28
Type C, ~~5' Dia.~~ 4' Dia.

Sta. 105+44.73
Const. MH 29
Type A ~~5' Dia.~~ 4' Dia.
w/self-sealing lid

Main No. 1

36" Hackberries

24" Hackberries

Cable TV Buried

Gas Line

Easement

Utility Esmt.

Four Mile Creek

Temporary Construction Easement

Temporary Construction

Construction

Sanitary Sewer

10' Easement

Easement

Utility Pole

Outfall line

Outfall Line

Baseline "A"

Baseline "B"

Baseline "C"

Sewer

Gas Line

Cable TV Buried

Gas Line Box

Gas Line Box Post

Gas Line Post

Gas Line Marker

Gas Line Vent

Gas Line Valve

Gas Line Valve Box

Gas Line Valve Box Post

Gas Line Valve Box Post Marker

Gas Line Valve Box Post Vent

Gas Line Valve Box Post Valve

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Gas Line Valve Box Post

Sta. 105+44.73
MH 29

Remove and Reset fence as required

Four Mile Creek

Concrete Dam

Temporary Construction Easement

Sta. 110+84.64
Const. MH 30
Type A, ~~5'~~ Dia. 4' Dia.
w/self-sealing lid

Remove and Reset fence as required

Four Mile Creek

Sta. 115+52.03
Const. MH 31
Type A, ~~5'~~ Dia. 4' Dia.
w/self-sealing lid

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

1 | Updated per current standards | RJ | 6/96

Baseline "A"

Sta. 100+00

Bar Ditch

Wood Fence

Corrugated Metal Pipe

Cable TV Box

Gas Line

Utility Pole

Tree

Fire Hydrant

Meter

Mail Box

Sanitary Sewer Main No. 1

130.00

Easement

Temporary Construction Easement

20' Util. Easement

Remove and Reset Chain Link as required

Install ~~333.37~~ L.F. 21" Pipe

Install ~~467.39~~ L.F. 21" Pipe

408.14

Sta. 121+71.00
13.00' Left

SHADYBROOK FARM ADDITION

Sta. 127+10.00
15.00' Right

Sta. 131+[illegible]
60.00' Left

AS CONSTRUCTED
PROJ. ENG. [illegible] DATE 2-21-97
RES. ENG. ME DATE 2-21-97

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TB 35
MH 29
Top Elev.: ~~1305.5~~ 1303.87

Existing Ground

TB 34
MH 30
Top Elev.: ~~1306.5~~ 1306.67

Existing Ground

TB 33
MH 31
Top Elev.: ~~1305.7~~ 1306.13

Type III Backfill

Type III Backfill

E-1296.27
~~E=1296.27~~

E out = 1297.06
~~E=1297.06~~
E in = 1297.29

E out = ~~1297.29~~
~~E=1297.29~~
E in = ~~1297.52~~
1298.23

1298.17

540.10
~~533.37~~ L.F. 21" Pipe
@ 0.20 %

468.14
~~467.39~~ L.F. 21" Pipe
@ 0.20 %

1315
1310
1305
1300
1295
1290
1285
1280
1275

105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN MOUNT LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, LM, RFJ | Job No. 34-01051-5
Drawn by GM, SM | Date June, 1982

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

Interceptor B 2. 1

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 21 of 24

Sta. 115+52.03
MH 31

6447-022

Sta. 18+00.00 to Sta. 13+40.00
140.00 L.F.
21" Concrete Encasement

Sta. 120+29.58
Const. MH 32
Type A. ~~5'~~ Dia. ~~4'~~ Dia.

6447-024

Sta. 124+26.36
Const. MH 33
Type A. ~~5'~~ Dia. ~~4'~~ Dia.

6447-025

CAUTION !
Underground Electric

Remove & Reset as required

Remove & Reset Fence as required

Remove & Reset as required

Utility Pole DM

Fence

Property Line

Easement

Sewer Construction Easement

10' MAIN No. 17

Barbwire Fence

Baseline "A"

TB39

TB38

TB37

P164

Temporary

Construction

Sanitary

Fireplace

Cottonwoods

Picnic Tables & Grills

Baseline "A"

Evergreen

Play Equipment

Shelter

Elms

Wood Fence

Cottonwood

Creek

Chain Link Fence

16" Cottonwood

10' Esmt.

40' Temp. Const.

MAIN No. 17

Cottonwoods

477.12
~~47755~~ L.F. 21" Pipe

℄ "A" Sta. 136+00.00
5.80' Right

373.84
~~372.78~~ L.F. 21" Pipe

℄ "A" Sta. 139+72.09
on ℄

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

PEC

AS CONSTRUCTED
PROJ. ENG. _____ DATE 3-31-83
RES. ENG. _____ DATE 3-31-83

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TB37
MH 31
Top Elev. ~~1307.7~~ 1306.13

TB38
MH 32
Top Elev. ~~1311.0~~ 1311.20

TB39
MH 33
Top Elev. ~~1315.7~~ 1315.28

Existing Ground

Type III Backfill

Type III Backfill

18+00.00

19+40.00

℄ Our = ~~1302.55~~ 1302.17
℄ In = ~~1298.55~~ 1298.23

℄ Our = ~~1302.55~~ 1302.05
℄ In = 1302.15

℄ Our = ~~1302.55~~ 1302.21
℄ In = ~~1302.55~~ 1302.97

373.84
~~372.78~~ L.F. 21" Pipe
@ 0.20 %

1325 1320 1315 1310 1305 1300 1295 1290 1285

115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN M. BOWE LICENSED 8055 KANSAS PROFESSIONAL ENGINEER

1 Updated per Current Standards RV 9/83

No.	Revision	By	Date

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

Designed by MDS, LM, RFJ | Job No. 34-01051-5
Drawn by GM, SM | Date June, 1982

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

Interceptor B). |

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 22 of 24

Sta. 124+02.36
MH 33

6447-096

Sta. 127+75.14
Const. MH 34
Type A ~~5' Dia.~~ 4' Dia.

6447-026

Sta. 127+75.14 to Sta. 131+63.14
Const. 388.00 L.F. Boring and Install 388.00 L.F. 32" Stl. Encmt. and 388.00 L.F. 20" D.I.P.
(See detail, Sht. No. 6)

Temporary Construction Easement

Temporary Sanitary Sewer Main No. 17 Easement

Barbwire Fence

Pipe as required

Install ~~372.76~~ 379.41 L.F. 21" Pipe

℄ "A" Sta. 139+72.09 on ℄

℄ "A" Sta. 143+53.31 9.53' Right

AS CONSTRUCTED
PROJ. ENG. DATE
RES. ENG. DATE

Install 20.00 L.F. 21" Pipe.

Pipe Adapter as required

Future Improvements

Updated per current Standards

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

℄ "A" Sta. 148+23.53
22.2' Left

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

TB 39
MH 33
Top Elev ~~1315.51~~ 1315.28
Existing Ground
℄ Out = ~~1302.91~~ 1302.71
℄ IN = ~~1302.77~~ 1302.57
Type III Backfill
370.41 ~~372.76~~ L.F. 21" Pipe @ 0.20 %

TB 40
MH 34
Top Elev ~~1313.6~~ 1313.61
℄ Out = ~~1303.60~~ 1303.40
℄ IN = ~~1303.74~~ 1303.46

see Sheet 23.4 for Alignment Revision

12" Waterline

Existing Ground

End of Line

℄ Out = 1304.52
℄ IN = 1304.32

388.00 L.F. 20" DIP @ 0.20 %

20.00 L.F. 21" Pipe @ 0.20 %

1335 1330 1325 1320 1315 1310 1305 1300 1295

124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00

DARREL LYNN MOORE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

MICHAEL D. SCHOMAKER LICENSED 6778 KANSAS PROFESSIONAL ENGINEER

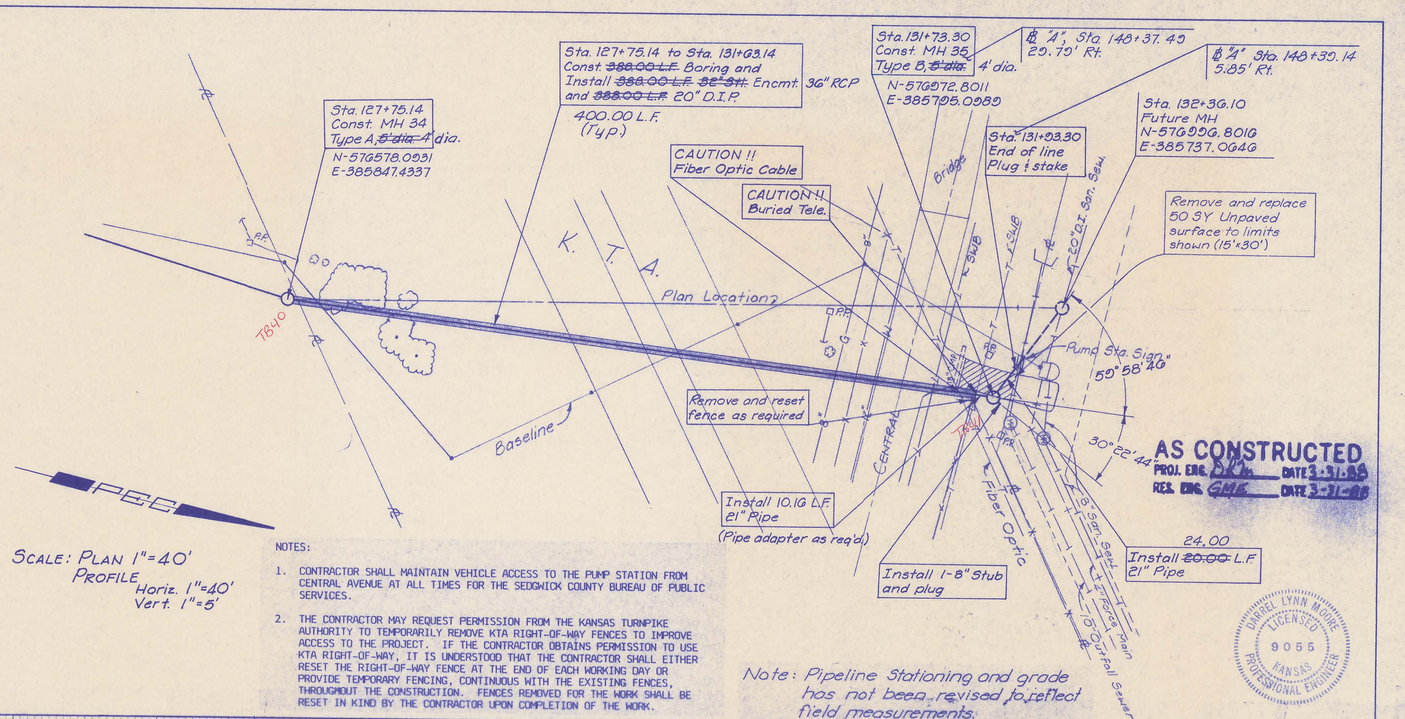
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Designed by MDS, LM, RFJ
Drawn by GM, SM
Job No. 34-8105.5
Date June, 1982

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

Interceptor B

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 23 of 24



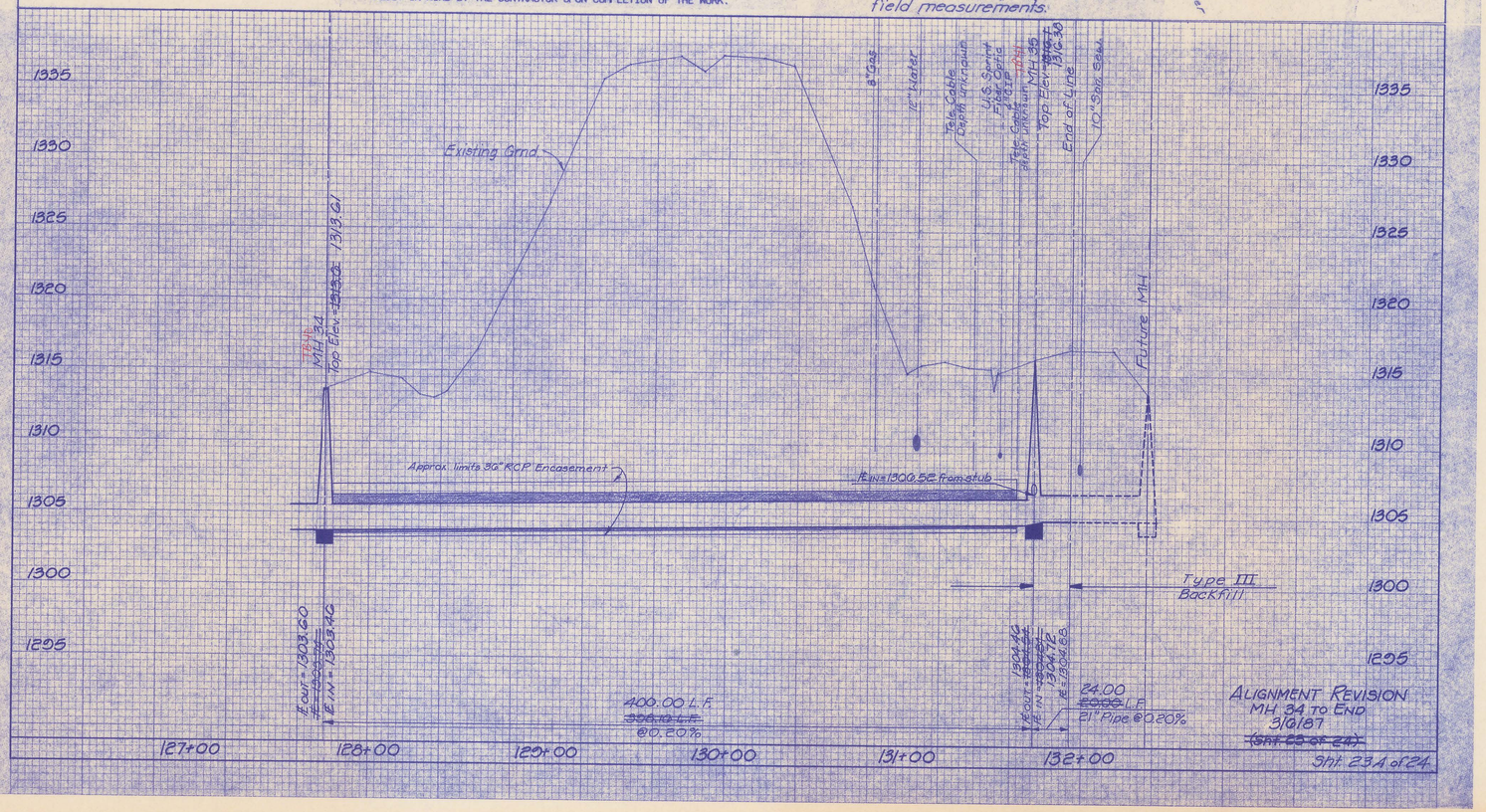
SCALE: PLAN 1"=40'
PROFILE Horiz. 1"=40'
Vert. 1"=5'

NOTES:

1. CONTRACTOR SHALL MAINTAIN VEHICLE ACCESS TO THE PUMP STATION FROM CENTRAL AVENUE AT ALL TIMES FOR THE SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES.

2. THE CONTRACTOR MAY REQUEST PERMISSION FROM THE KANSAS TURNPIKE AUTHORITY TO TEMPORARILY REMOVE KTA RIGHT-OF-WAY FENCES TO IMPROVE ACCESS TO THE PROJECT. IF THE CONTRACTOR OBTAINS PERMISSION TO USE KTA RIGHT-OF-WAY, IT IS UNDERSTOOD THAT THE CONTRACTOR SHALL EITHER RESET THE RIGHT-OF-WAY FENCE AT THE END OF EACH WORKING DAY OR PROVIDE TEMPORARY FENCING, CONTINUOUS WITH THE EXISTING FENCES, THROUGHOUT THE CONSTRUCTION. FENCES REMOVED FOR THE WORK SHALL BE RESET IN KIND BY THE CONTRACTOR UPON COMPLETION OF THE WORK.

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.



Interceptor B

Sta. 0+00.00 Main No. 1
Sta. 0+00.00 Main No. 2
MH 28

Sta. 0+80.00 to Sta. 1+80.00
100.00 L.F.
8" Concrete Encasement

Remove and Reset Fence as required

Sta. 3+17.98
Const. MH 36
Type C, 4' Dia.
w/self leveling lid

Sta. 3+57.98
End of line
Plug and Stake
(See detail, Sht. No. 6)

EAST

Lateral No. 1

Lateral No. 2

PT-20B

"Baseline "B"

Park East Lateral Sewer District
See Project No. 34-81051-12

Main No. 1
See Sheet No. 10

Baseline "A"

PT-20A

40' Temp. Const. Esmt.

30' San. Sew. Ins. Esmt.

10'

Main No. 1

Sta. 0+05.00
6" Line
Left

312.81
Install ~~1100~~ L.F.
8" Pipe

38.71
Install ~~4000~~ L.F.
8" Pipe

3+14.88
℄ "B" Sta. ~~3+14.23~~
~~33.32~~ Right
55.40

3+53.38
℄ "B" Sta. ~~3+53~~
~~60.16~~ Right
59.50

SHADYBROOK FARM ADDITION

Sta. 3+24.10
Const. MH 37
Type A, 4' Dia.

Sta. 1+36.05 Main No. 1
Sta. 0+00.00 Main No. 3
MH 28

Utility Pole

12" Iron Pipe

Barbed Wire Fence

Cedar Fence

Chain Link Fence

Wood Fence

Brick Fence

Stone Fence

Concrete Fence

Sta. [illegible]
Const. MH
[illegible] detail, Sht. [illegible])

℄ C Ext." Sta. 3+15.38
45.60" Left

Main No. 3
30' San. Sew. Esmt.

Baseline "C"

PT-21A

20' Temp. Const. Esmt.

Install ~~324.15~~ 323.68 L.F.
12" Pipe

Pipe.
Install 1-12"
Stub & Plug

Existing 12" San. Sew.

Chain Link Fence

Existing 12" [illegible] to be removed by others

Pond

Main No. 1
See Sheet No. 20

40' Temp. Const. Esmt.

30' San. Sew. Esmt.

Cedar Fence

10'

℄ "A" Sta. 1+24.79
22.00' Right
Baseline "A"

3+14.68
℄ "C Ext." Sta. ~~3+13~~
~~33.67~~ Left
35.84'

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

AS CONSTRUCTED
FOR. ENG. [signature] DATE 2-21-84
RES. ENG. [signature] DATE 2-21-84

Note: Pipeline Stationing and grade has not been revised to reflect field measurements.

MH 26
Top Elev. ~~1308~~ 1304.23

TYP.

Existing Ground

MH 36
Top Elev. ~~1308~~ 1307.97

End of Line

0+80.00

1+80.00

Type III Backfill

1292.12
℄ our ~~1296.00~~
℄ in ~~1291.15~~ 1293.01

1294.29
℄ our ~~1299.16~~
℄ in ~~1300.45~~ 1301.11

℄ 1305.30

319.81
~~317.50~~ L.F. 8" Pipe
@ 0.40 %

38.71
~~40.00~~ L.F. 8" Pipe
@ 2.10 %

MH 28
Top Elev. ~~1310.7~~ 1310.56

1307.34
℄ in ~~1307.30~~ (12")
from 12" Stub (N)

MH 37
Top Elev. ~~1315.5~~ 1315.35

Existing Ground

Type III Backfill

1295.55
℄ our ~~1295.52~~
℄ in ~~1300.73~~ 1300.03

1307.22
℄ our ~~1307.10~~

323.68
~~324.10~~ L.F. 12" Pipe
@ 0.30 %

0.30 %

1320
1315
1310
1305
1300
1295
1290
1285
1280

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

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

MICHAEL D. SCHOMAKER LICENSED 8778 KANSAS PROFESSIONAL ENGINEER

DARREL LYNN WOLFE LICENSED 9055 KANSAS PROFESSIONAL ENGINEER

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

Designed by MDS, LM, RFJ
Drawn by GM, SM
Job No. 34-81051-5
Date June, 1982

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

MAIN NO. 2 & 3

SANITARY SEWER INTERCEPTOR
CRESTVIEW JOINT SEWER DISTRICT

Sht. 21 of 21