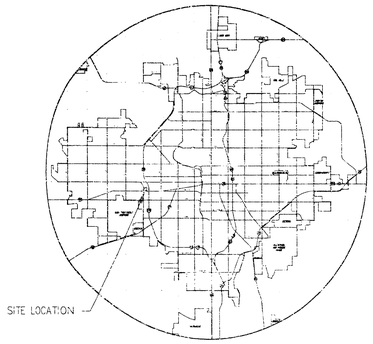


LOCATION MAP

PRIVATE STORM WATER SEWER PLANS

ROLLINS LEASING CORP
LOT 2, BLOCK 1
WEST TOWNE INDUSTRIAL ADDITION

PROJECT NO. 973PPS

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

OCA #607861

APPROVED AS NOTED

BY CITY ENGINEER OF WICHITA

SANITARY SEWERS_____

STORM SEWERS VRH 4/5/00

DRIVEWAY APPROACHES_____

WATER MAINS_____

PAVING_____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION, NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

GENERAL NOTES

1. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.

2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

4. TREES TO BE REMOVED ARE MARKED ✕ . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.

5. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.

6. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

7. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES TO STARTING ANY EXCAVATION AS FOLLOWS:

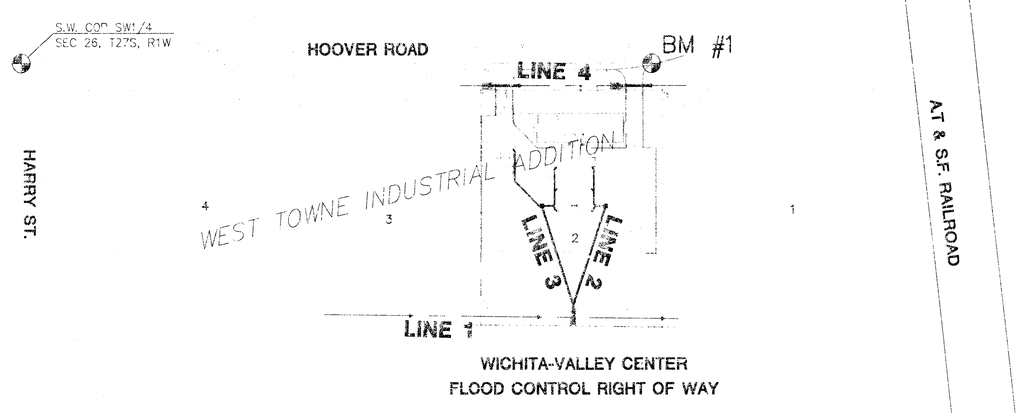
KANSAS ONE-CALL	587-2470
	OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION	263-2061
KG&E (GAS & ELECTRIC)	383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7590
CITY OF WICHITA WATER & SEWER MAINT.	268-4908
ARKLA GAS COMPANY	946-0096

8. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

9. CONTRACTOR SHALL RESEED AND MULCH ALL DISTRUBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION.



SCALE: 1" = 150'

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1
3	LINES 2&3
4	LINE 4
5	DROP INLET DETAILS
6	CURB INLET DETAILS
7	EROSION/SEDIMENT CONTROL DETAILS
8	FINAL PLAT

BENCHMARKS

BM #1 CHISELED "□" ON EAST TC HOOVER ROAD
132' SOUTH & 45' WEST OF NW CORNER LOT 2

ELEV. = 120.47

3-30-00

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

ROLLINS LEASING CORP.
PROJECT NAME

TITLE SHEET
SHEET TITLE

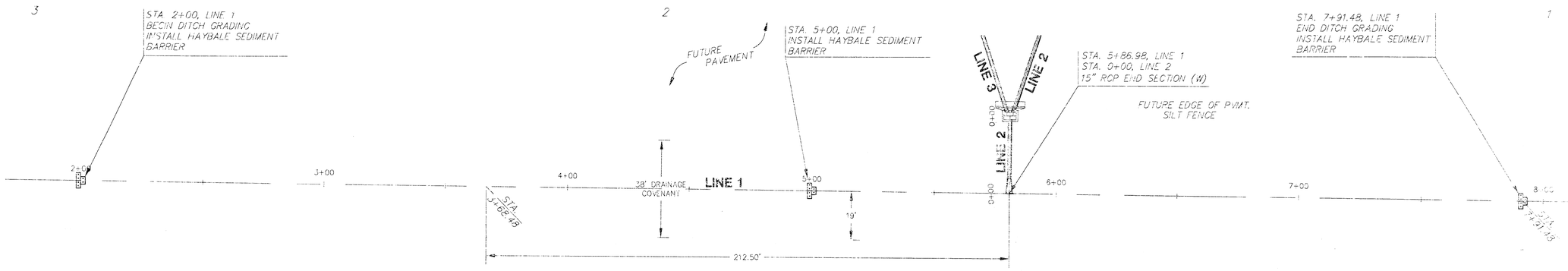
DESIGN BY:	DRAWN BY:	CHECKED BY:
JTC	RKH/GJR	JTC

DATE	JOB NO.	SHEET/OF
JANUARY 2000	99196_DT	1 / 8

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ROLLINS LEASING CORP.
STORM SEWER
LINE 1

WEST TOWNE INDUSTRIAL ADDITION



BIG SLOUGH RIGHT OF WAY

SCALE: 1"=20'

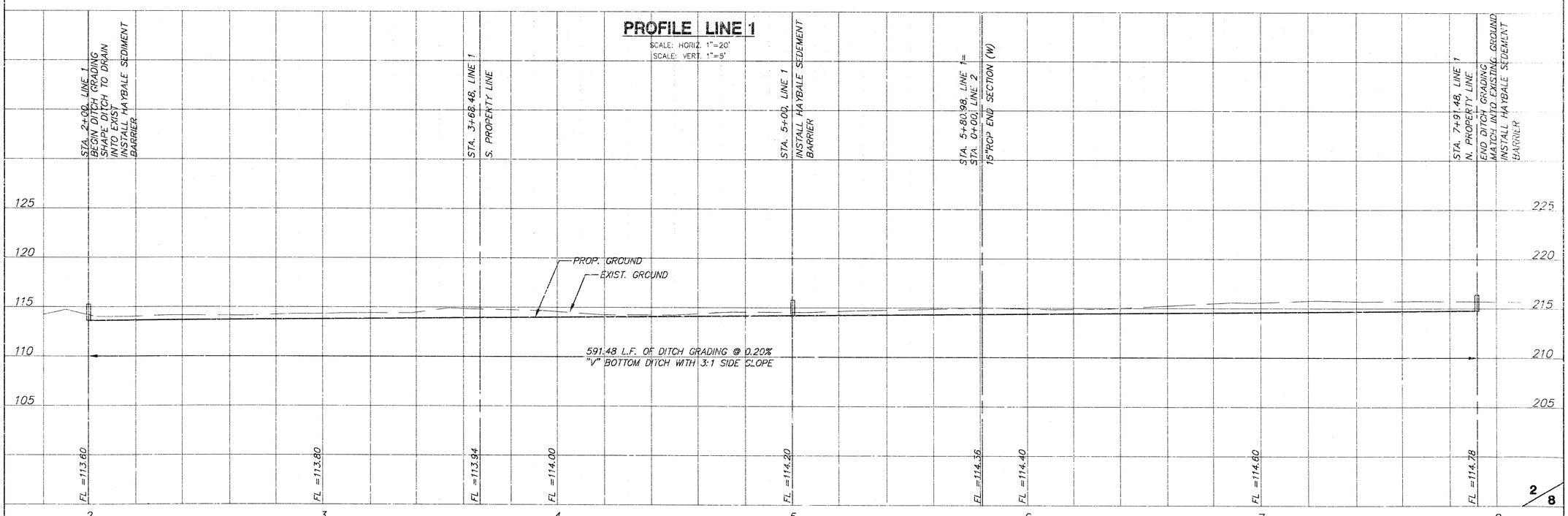
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PLAN LINE 1

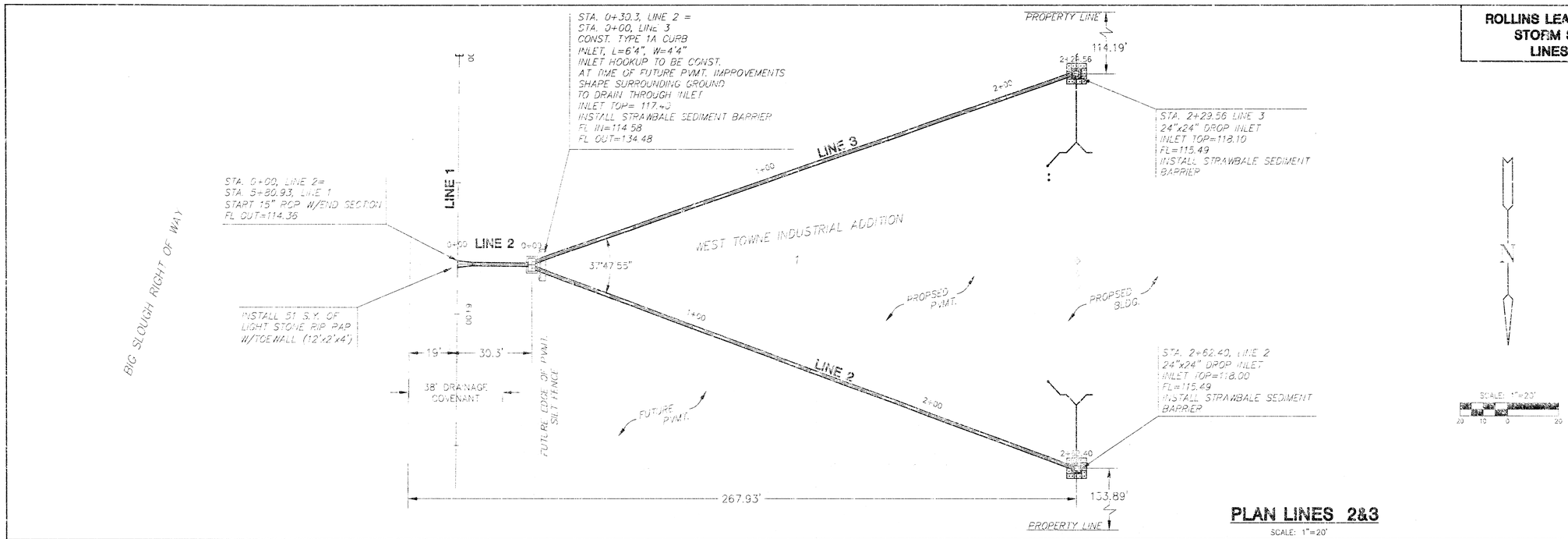
SCALE: 1"=20'

PROFILE LINE 1

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'



ROLLINS LEASING CORP.
STORM SEWER
LINES 2&3

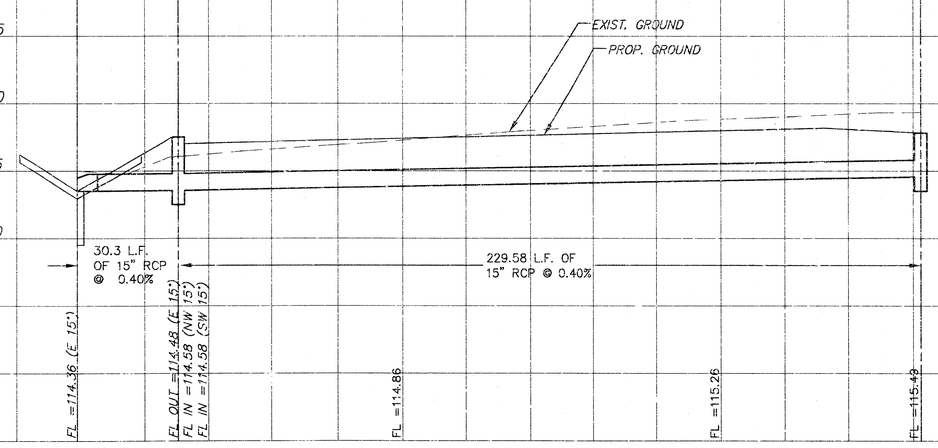


PLAN LINES 2&3

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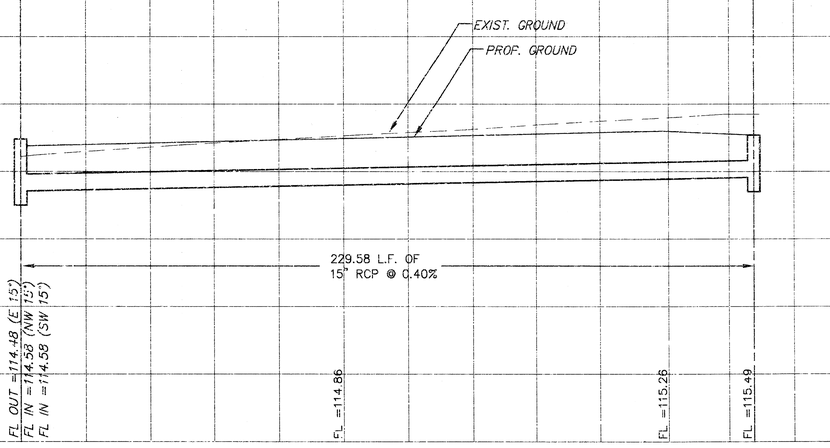
PROFILE LINE 2

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'



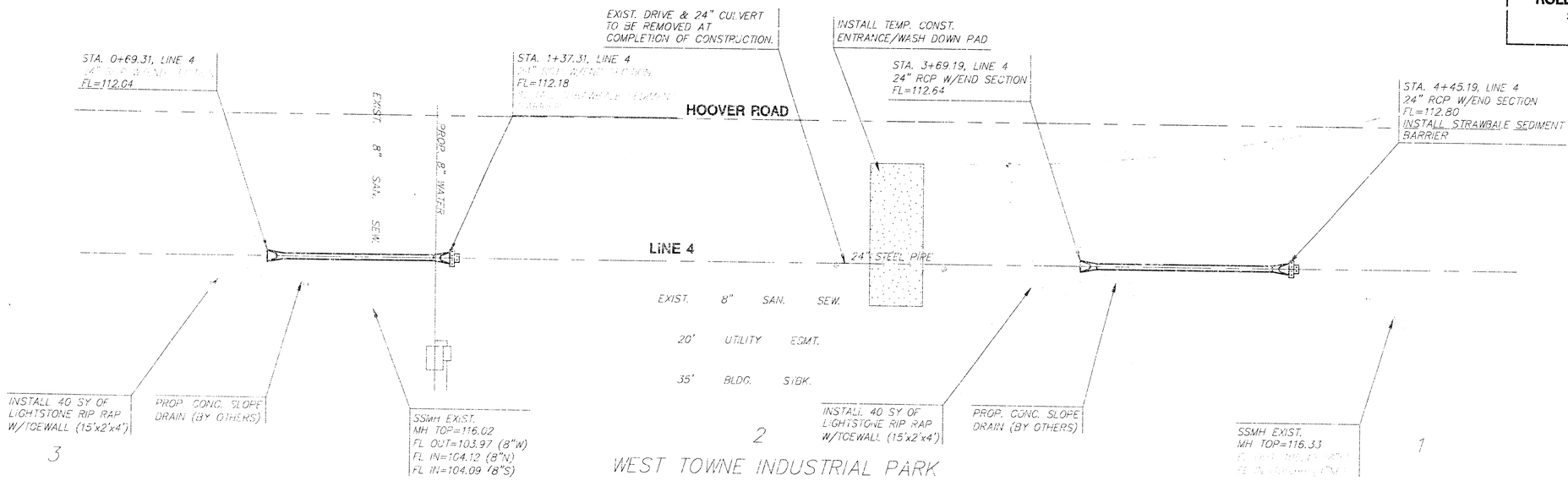
PROFILE LINE 3

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'



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ROLLINS LEASING CORP.
STORM SEWER
LINE 4



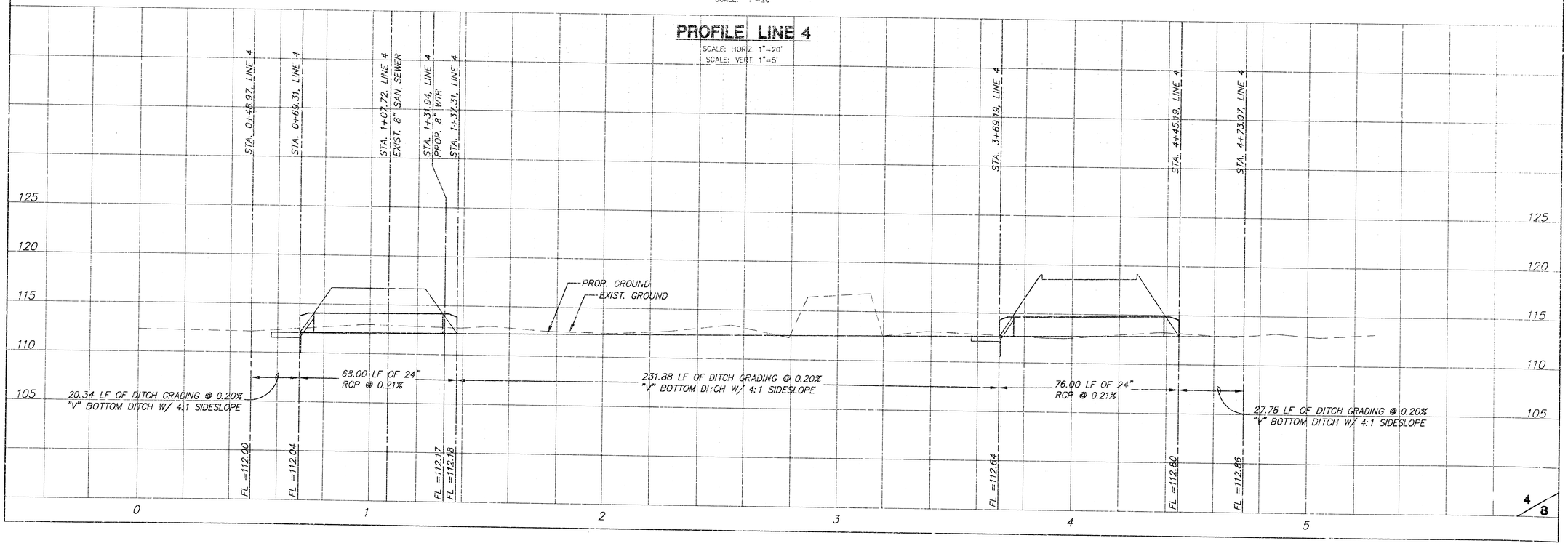
PLAN LINE 4

SCALE: 1"=20'

SCALE: 1"=20'
20 10 0 20

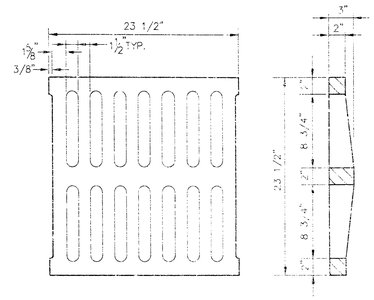
PROFILE LINE 4

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'

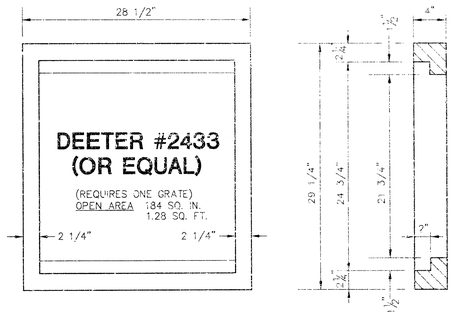


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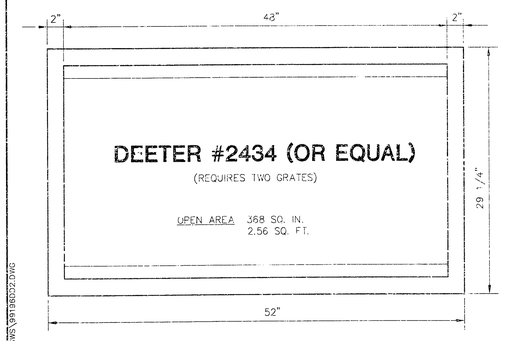
NOTE: GRATES SHALL BE IMPRINTED ON THE TOP SURFACE WITH "CITY OF WICHITA" USING LETTERS AT LEAST 1" IN HEIGHT. OTHER MARKING METHODS MAY BE USED ONLY IF APPROVED BY THE ENGINEER.



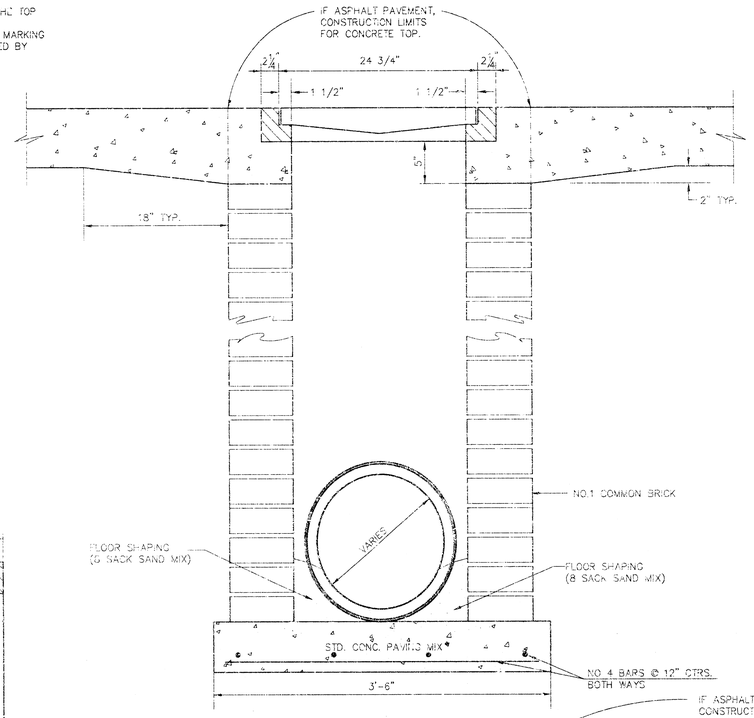
24"x24" GRATE DETAIL

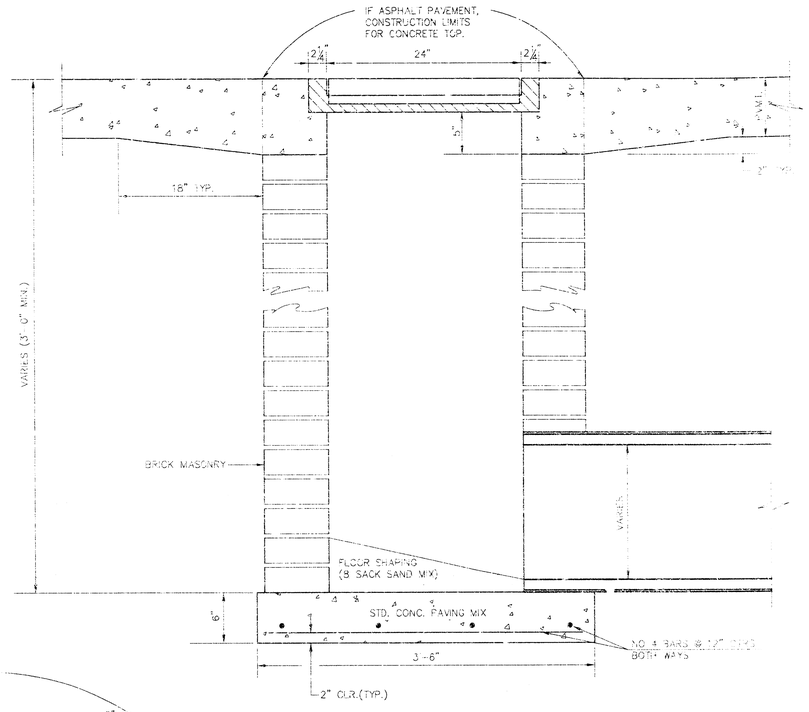


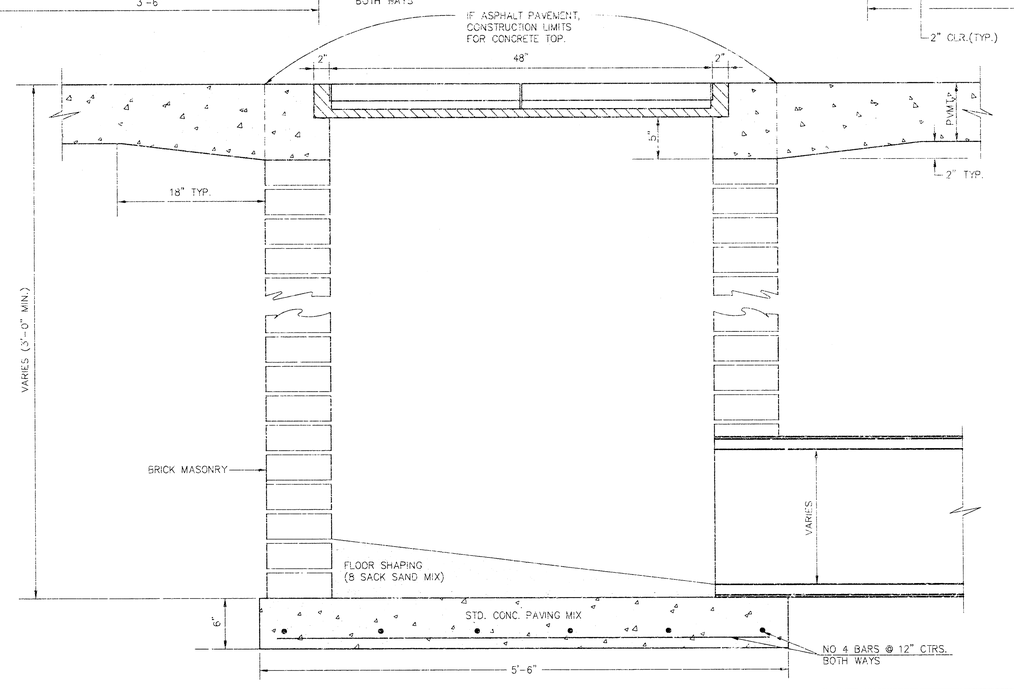
SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL







ORIFICE EQUATION		
$Q = C^*A^*\sqrt{2gh}$ $C = 0.60$		
h (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.93 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

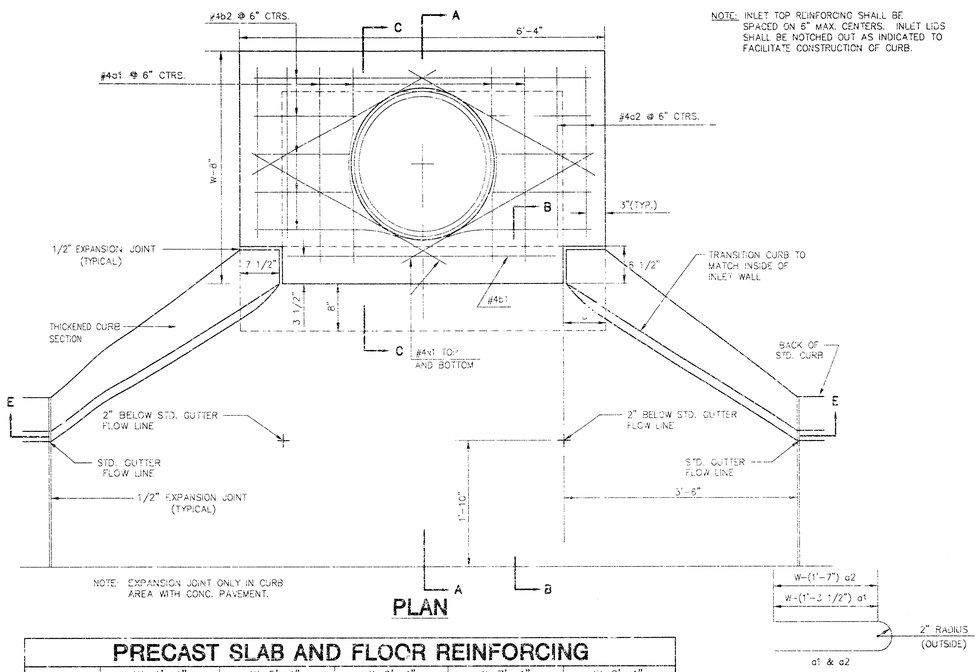
REVISED: 5-8-90 JNJ

DROP INLET DETAILS

CITY OF WICHITA, KANSAS

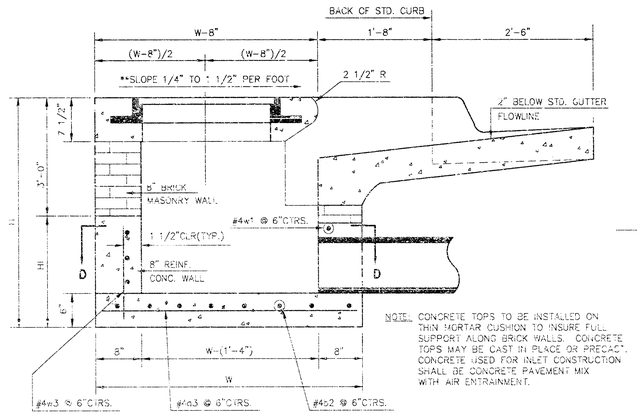
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Drawn by	Date	Date JAN. 2000	Job No 99196DD2

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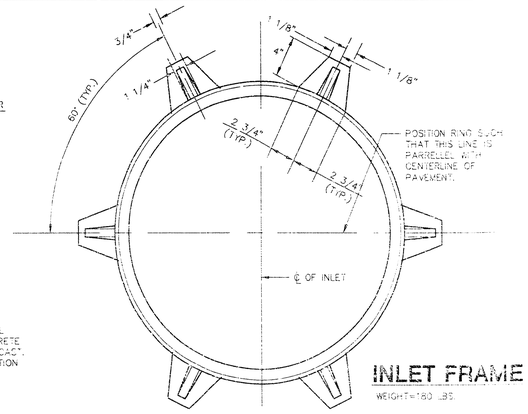
PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX WITH AIR ENTRAINMENT.

SECTION A-A



INLET FRAME

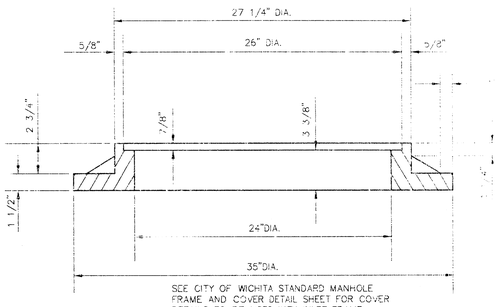
WEIGHT=160 LBS.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=6'-4" AND H=7'-0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

PRECAST SLAB AND FLOOR REINFORCING

		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
*c1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'- 7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
*b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

WALL REINFORCING

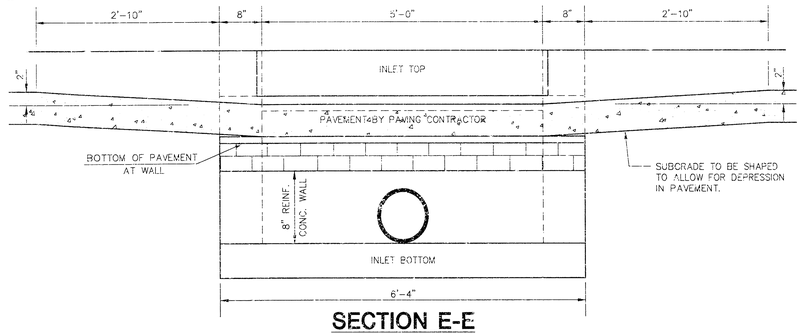
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	36	②	40	②	44	②	48	②

* FIELD BEND OR CUT REINFORCING AS REQUIRED FOR CLEARANCE
① 4(HI-12"); (HI-12") ROUND DOWN TO NEAREST 0.5'
② HI-3"

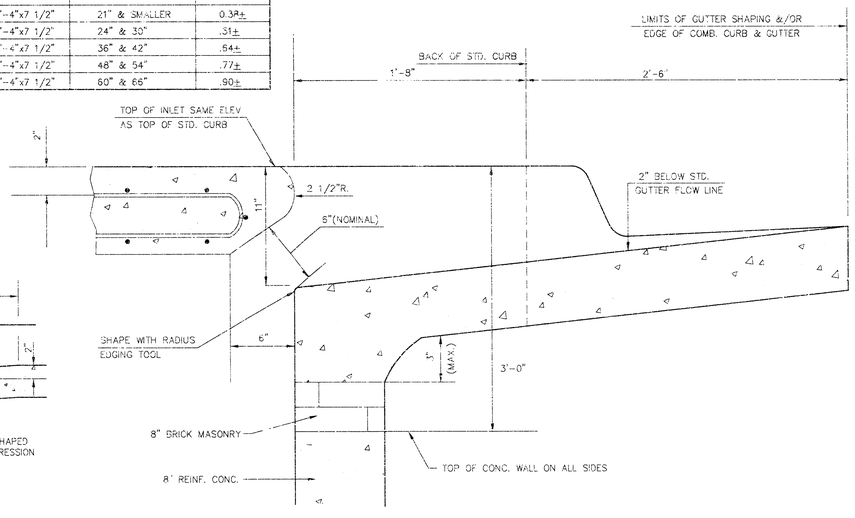
BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8"x6'-4"x7 1/2"	21" & SMALLER	0.3P±
5'-4"	4'-8"x6'-4"x7 1/2"	24" & 30"	.51±
6'-4"	5'-8"x6'-4"x7 1/2"	36" & 42"	.64±
7'-4"	6'-8"x6'-4"x7 1/2"	48" & 54"	.77±
8'-4"	7'-8"x6'-4"x7 1/2"	60" & 66"	.90±

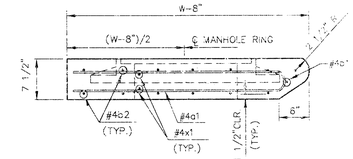
**NOTE: TYPE OF INLET TOPS TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



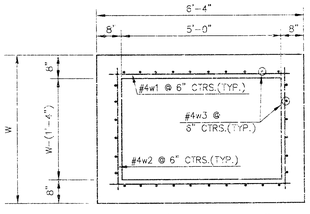
SECTION E-E



SECTION B-B



SECTION C-C



SECTION D-D

REVISED: 2-16-89 C.C.W.

STANDARD TYPE 1A CURB INLET

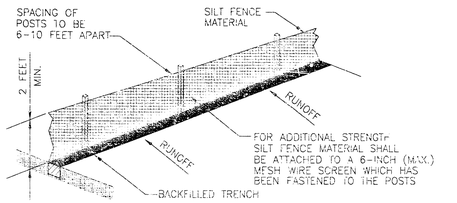
INLET OPENING=6"x5'-0"

JUNE 1984 CITY OF WICHITA, KANSAS			6 8
Design C.C.W.	Checked by	Checked by	
Drawn by	Date	Date JAN. 2000	Job No. 99196DDT

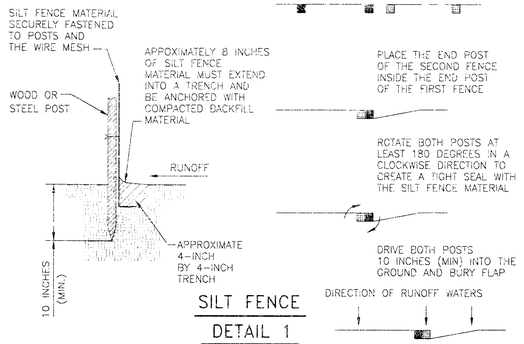
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SILT FENCE MATERIAL SPECIFICATIONS

GRAB TENSILE STRENGTH	100 LBS. MIN. (ASTM D4632)
MULLEN BURST STRENGTH	300 PSI MIN (ASTM D3786)
TRAPEZOID TEAR STRENGTH	60 LBS. MIN. (ASTM D4533)
WATER FLOW RATE	20 GAL/MIN/SQ.FT MIN. (ASTM D4491)
UV STABILITY	70% MIN. (ASTM D4355)

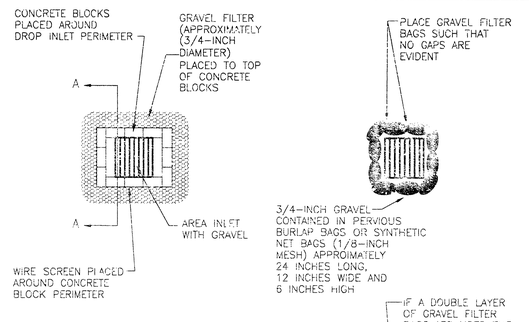


ATTACHING TWO SILT FENCES



SILT FENCE

DETAIL 1



CROSS-SECTION AA

SIDE VIEW

CONCRETE BLOCK FILTER

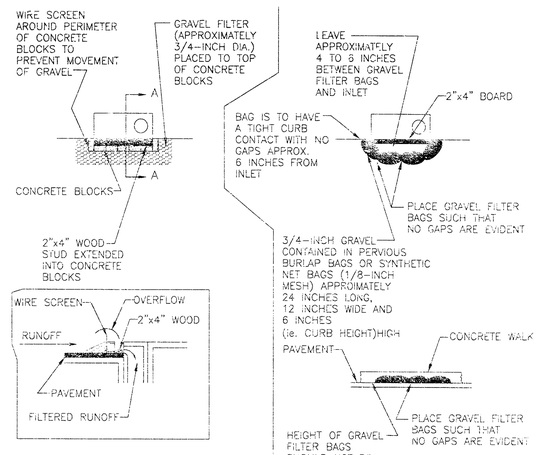
GRAVEL FILTER BAGS

ALTERNATES FOR STRAW BALES

NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND

GRAVEL FILTER FOR AREA INLET

DETAIL 2



CROSS-SECTION AA

FRONT VIEW

CONCRETE BLOCK FILTER

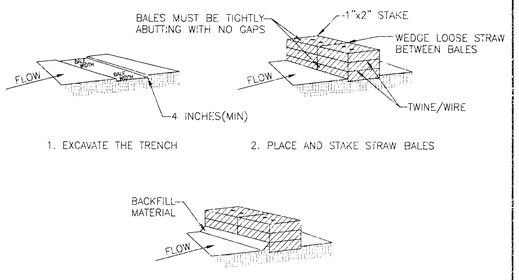
GRAVEL FILTER BAGS

ALTERNATES FOR STRAW BALES

NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND

CURB INLET GRAVEL FILTER

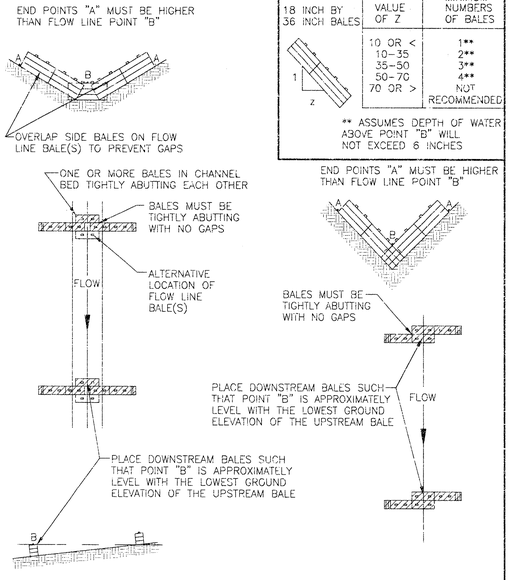
DETAIL 3



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

STRAW BALE DIKES FOR DRAINAGE CHANNELS

DETAIL 5



18 INCH BY 36 INCH BALES	VALUE OF Z	MINIMUM NUMBERS OF BALES
	10 OR <	1**
	10-35	2**
	35-50	3**
	50-70	4**
	70 OR >	NOT RECOMMENDED

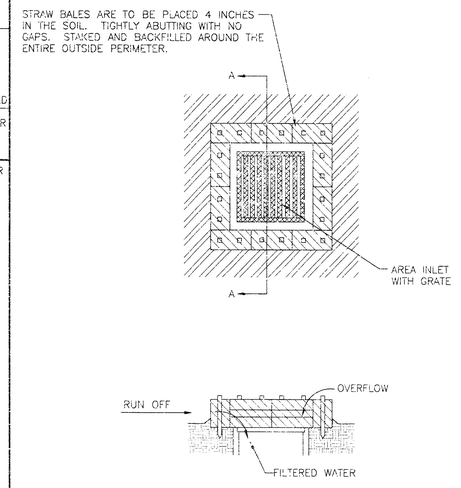
** ASSUMES DEPTH OF WATER ABOVE POINT "B" WILL NOT EXCEED 6 INCHES

WIDE CHANNELS

NARROW CHANNELS

STRAW BALE DIKES FOR DRAINAGE CHANNELS

DETAIL 6

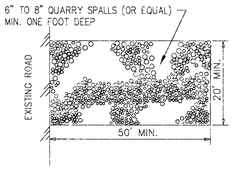


SECTION AA

NOTE: STRAW BALE FILTERS ARE NOT TO BE USED IF ADJACENT AREA TO INLET IS PAVED. SEE DETAIL 2 FOR FILTERS ON PAVED AREA

STRAW BALE FILTER FOR AREA INLET

DETAIL 7



TEMPORARY CONSTRUCTION ENTRANCE/WASH DOWN PAD

DETAIL 7

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-600

ROLLINS LEASING CORP.
PROJECT NAME

EROSION CONTROL DETAILS
SHEET TITLE

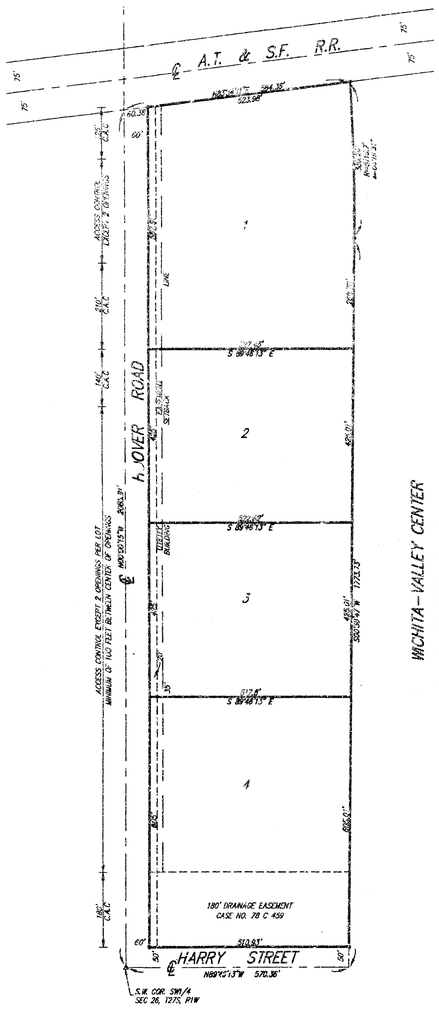
DESIGN BY:	DRAWN BY:	CHECKED BY:
JTC	RKH/GJR	JTC
DATE: JANUARY 2000	JOB NO. 99196DD3	SHEET/OF 7 / 8

S:\ACTIVE\99196\GWD\99196DD3.DWG 4:45:44 PM 29 DEC 1999 02 2000

PC 81-7

WEST TOWNE INDUSTRIAL ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



WICHITA-VALLEY CENTER
FLOOD CONTROL RIGHT-OF-WAY
CASE NO. A-31849



BENCH MARK:
RR Spike in E. face of tree
10' ± S. & 30' ± W. of
the S.W. Corner of Subject Property
Elev. = 1305.81 M.S.L.

Minimum Pad Elev. = 117.8 City Datum
1305 M.S.L.

LEGEND

Δ = ARC'S (FOUND)

● = 1/2" REBAR W/SRB CAP (SET)

C.A.C. = COMPLETE ACCESS CONTROL

State of Kansas)
Sedgwick County) SS

We, Savoy, Ruggles & Bohm, P.A., Surveyors in aforesaid county and state do hereby certify that, under the supervision of the undersigned, we have surveyed and plotted "WEST TOWNE INDUSTRIAL ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows:

That part of the W1/2 of the SW1/4 of Sec. 26, Twp. 27-S, R-1-W of the 5th P.M., Sedgwick County, Kansas, lying south of the A.T.&S.F. Railroad right-of-way, except that part taken for floodway in District Court Case No. A-31849.

All Public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Date 30 Oct 1997 — Savoy, Ruggles & Bohm, P.A.

LS-788 — Surveyor
Mark A. Savoy, PLS #788

Know all men by these presents that we, the undersigned, have caused the land described in the surveyor's certificate to be plotted into Lots, and Streets to be known as "WEST TOWNE INDUSTRIAL ADDITION", Wichita, Sedgwick County, Kansas. The utility easement is hereby granted as indicated for the construction and maintenance of all public utilities. The drainage easement is hereby granted as indicated for drainage purposes. The Streets are hereby dedicated to and for the use of the public. Access Control's are hereby granted to the City of Wichita (as indicated on the face of the plat), with the location of openings to be approved by the City Engineer. Minimum Pad elevations are as shown on the face of the plat.

Industrial Assets, LLC.

Randall J. Voth, Managing Partner
Randall J. Voth

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this 20th day of November 1997, by Randall J. Voth, Managing Partner of Industrial Assets, LLC, on behalf of the company.

Cheryl A. Higgins — Notary Public
Cheryl A. Higgins

My App't. Exp. 2/5/2001

CHERYL A. HIGGINS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2/5/2001

We, the undersigned, holders of a mortgage on a portion of the above described property do hereby consent to this plat of "WEST TOWNE INDUSTRIAL ADDITION", Wichita, Sedgwick County, Kansas.

intrust Bank

Gregg L. Lesh, Community Bank Pres.
Gregg L. Lesh

This plat of "WEST TOWNE INDUSTRIAL ADDITION", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 30th day of December 1997.

Wichita-Sedgwick County Metropolitan Area Planning Commission

John C. Frye, Chairman
John C. Frye

Warren S. Krout, Secretary
Warren S. Krout

This plat approved and all dedications shown hereon, accepted by the City Council of the City of Wichita, Kansas, this 11th day of December 1997.

Bob Knight, Mayor
Bob Knight

Pat Burnett, City Clerk
Pat Burnett

Entered on transfer record this 2nd day of January, 1998.

County Clerk
James Alford

State of Kansas)
Sedgwick County) SS

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 9 day of January, 1998 at 12:00 o'clock P.M. and is duly recorded.

Register of Deeds
Barry Conshaw

Deputy
Michael D. Hurtt

#1659772

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this 19th day of December 1997, by Gregg L. Lesh, President of intrust Bank, on behalf of the Bank.

Cheryl A. Higgins — Notary Public
Cheryl A. Higgins

My App't. Exp. 2/5/2001

CHERYL A. HIGGINS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2/5/2001

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.ksjobs.com/~srb
316-264-8008
FAX 264-4821
E-mail: srb@feist.com

SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

DWG FILE: v0794PF-C.K.
PROJECT NO. 97007MP

PC 81-7

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

2. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

3 CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	1-800-344-7233 or 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7590
MULTIMEDIA CABLEVISION	262-4270
KGE (ELECTRIC)	383-8600
CITY OF WICHITA WATER & SEWER MAINTENANCE	268-4908/4940
PEOPLES NATURAL GAS	942-8811
USD 261 (BOB DAMOURAND)	291-9132 (PAGER)

4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE DEPARTMENT OF AGRICULTURE, DIVISION OF WATER RESOURCES PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. ARMY CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

5. WHERE CONNECTION TO AN EXISTING MANHOLE THAT DOES NOT HAVE AN EXISTING STUB OR THE STUB IS UNUSABLE DUE TO ELEVATION GRADE OR ALIGNMENT, THE CONTRACTOR SHALL RESHAPE THE EXISTING MANHOLE INVERT TO PROVIDE SMOOTH FLOW. THE COST OF RESHAPING EXISTING MANHOLE INVERTS IS INCIDENTAL TO THE PROJECT.

6. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

7. ALL DISTURBED AREAS TO BE RESTORED PER CITY POLICY AR-78.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS VRH 3/9/99

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THE PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

BENCHMARKS

LINE 16 C.O.W. BENCHMARK – 1/2 MILE EAST OF MERIDIAN ON 55TH STREET SOUTH; ON 1/2 SECTION LINE AND 37.23 FEET NORTH OF IRON AT 1/4 CORNER IN 55TH STREET SOUTH.

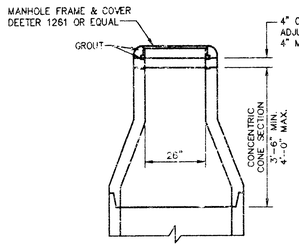
ELEV. = 83.62 FT. (WICHITA DATUM)

LINE 15 C.O.W. BENCHMARK – NE QUADRANT OF INTERSECTION OF MERIDIAN AND 55TH STREET SOUTH; 42.8 FEET NORTH AND 35 FEET EAST OF CENTER LINES OF STREETS; 15.0 FEET NORTHEAST OF CENTER TELEPHONE POLE; 12.7 FEET NORTHEAST OF 2-RAIL FENCE CORNER; 58.5 FEET NORTHEAST OF SECTION CORNER.

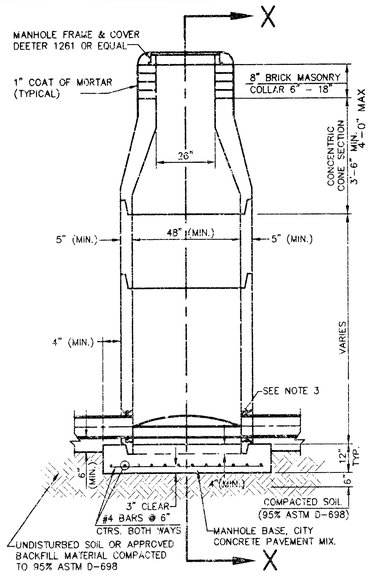
ELEV. = 85.77 FT. (WICHITA DATUM)

USGS DISC – 39.2 FEET SOUTH AND 34 FEET EAST OF SECTION CORNER AT MERIDIAN AND 55TH STREET SOUTH (1274).

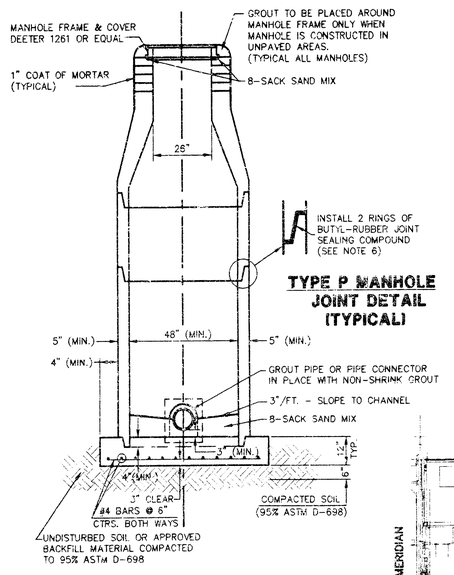
ELEV. = 86.26 FT. (WICHITA DATUM)



ALTERNATE CONSTRUCTION IN UNPAVED AREAS

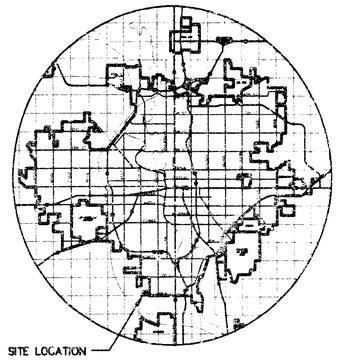


TYPE P STANDARD MANHOLE

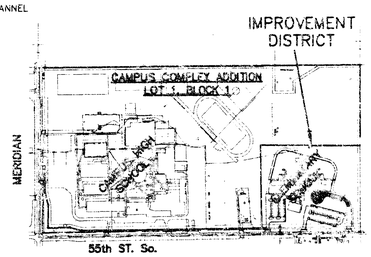


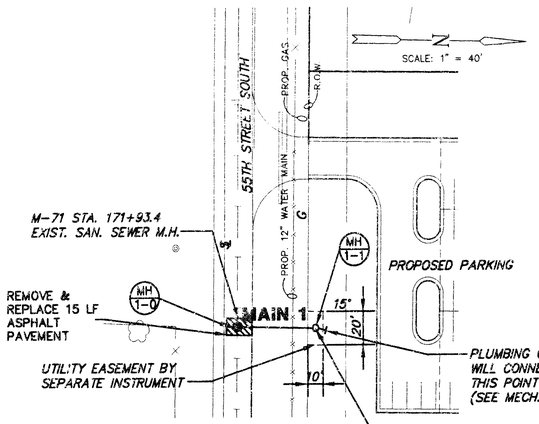
SECTION X (TYPICAL)

TYPE P MANHOLE JOINT DETAIL (TYPICAL)

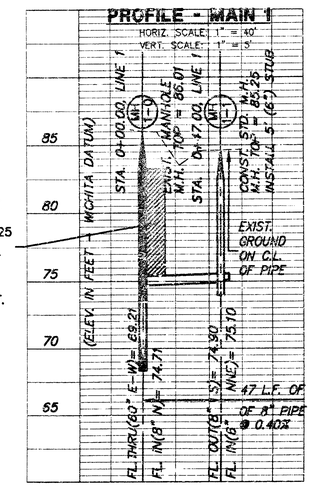


LOCATION MAP





PLAN - MAIN 1



0

COORDINATE SYSTEM USED BY M.K.E.C AND P.E.C.

SW CORNER, SEC 19. T28S, R1E	N 39386.331 E 37349.104
1/16 CORNER IN 55TH STREET SOUTH	N 39420.220 E 38664.988
S 1/4 CORNER, SEC 19, T28S. R1E	N 39454.109 E 39980.871
CENTER OF NEW MANHOLE	N 39492.11 E 39320.17

PRECAST MANHOLE NOTES:

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN ON THIS SHEET.
16. STANDARD MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
17. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR.

NEIL JEDNORAL LICENSED 1497 19 Nov 99 KANSAS PROFESSIONAL ENGINEER
30 Dec 2000

REVISED: MARCH 18, 1999 JNJ

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

NEW ELEMENTARY SCHOOL AT CAMPUS SITE, USD 261 HAYSVILLE, KS.
PROJECT NAME

PRIVATE SANITARY SEWER PLANS / C.O.W. PROJECT NO. 894 PPS (607862)
SHEET TITLE

JNJ	MLW	JNJ
DESIGN BY:	DRAWN BY:	CHECKED BY:
MARCH 1999	98016	1 / 1
DATE	JOB NO	SHEET/OF

G:\CIVIL\98016\ELEM\SSW98016C3.DWG 4-23-99 2:59:22 pm EST
J:\98C31.DWG Thu Mar 18 16:00:22 1999

Complete
3/7/03

PRIVATE STORM WATER SEWER PLANS

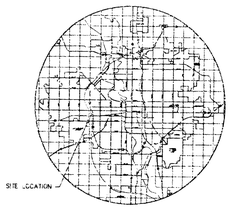
ROLLINS LEASING CORP
LOT 2, BLOCK 1
WEST TOWNE INDUSTRIAL ADDITION

PROJECT NO. 973PPS

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

OCA #607861



LOCATION MAP

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____

STORM SEWERS _____

DRIVEWAY APPROACHES _____

WATER MAINS _____

PAVING _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION. WORK SHALL NOT WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

GENERAL NOTES

1. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.

2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH MONUMENTS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

4. TREES TO BE REMOVED ARE MARKED ⊗. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.

5. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.

6. EXISTING UTILITIES AND OTHER LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

7. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES TO STAKING ANY EXCAVATION AS FOLLOWS:

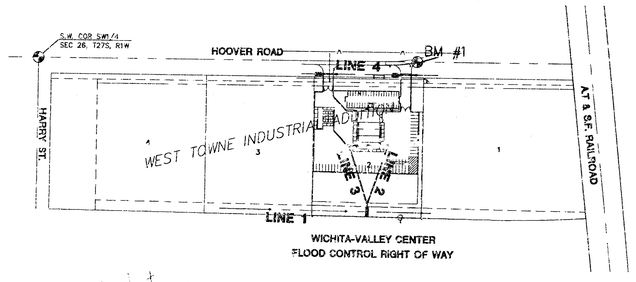
KANSAS ONE-CALL	587-1470
	OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION	263-1061
KG&E (GAS & ELECTRIC)	353-9600
SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7790
CITY OF WICHITA WATER & SEWER MAINT.	268-4508
ARKLA GAS COMPANY	946-0098

8. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE FLOODWAY PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES INCLUDING ON TEMPORARY BERMS IS SUBJECT TO U.S. CORPS OF ENGINEERS JURISDICTION. NO MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

9. CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION.



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1
3	LINES 2&3
4	LINE 4
5	DROP INLET DETAILS
6	CURB INLET DETAILS
7	EROSION/SEDIMENT CONTROL DETAILS
8	FINAL PLAT

BENCHMARKS

BM #1 CHISELED "L" ON EAST FC HOOVER ROAD
132' SOUTH & 45' WEST OF NW CORNER LOT 2
ELEV = 1210.47

14371
2-7-03

AS BUILT: 8/11/00

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

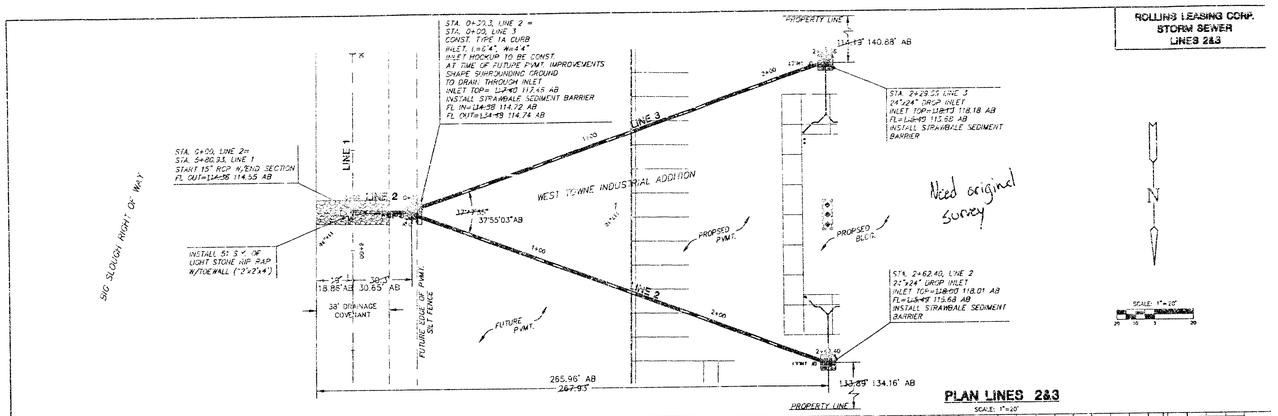
ROLLINS LEASING CORP.
PROJECT NAME

TITLE SHEET
SHEET TITLE

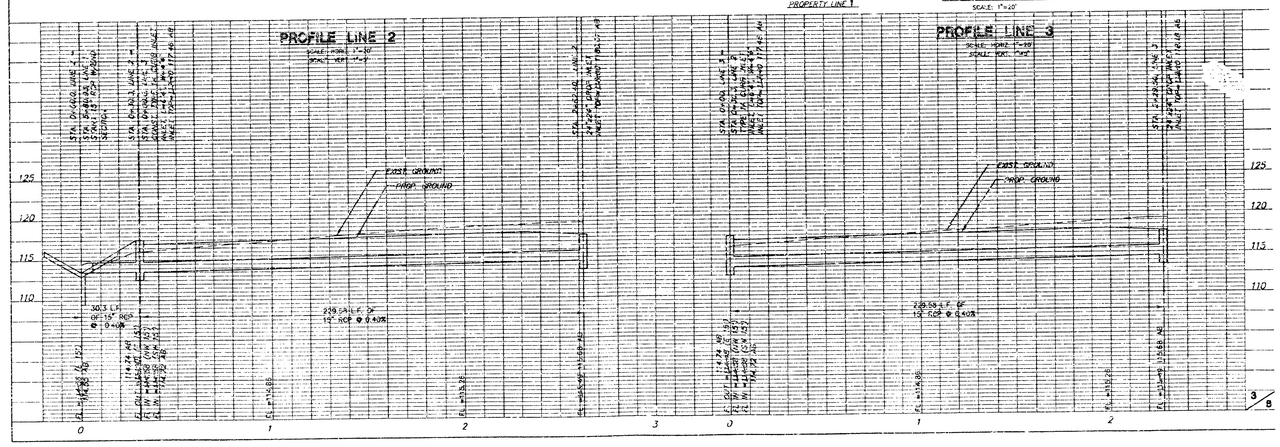
JTC	RKH/C.R	JTC
DESIGN BY:	DRAWN BY:	CHECKED BY:
JANUARY 2000	09196.07	1 of 8
DATE	JOB NO.	SHEET NO.

G:\DWG\09196\DWG\09196-FINAL.DWG

ROLLING LEASING CORP.
STORM SEWER
LINES 2&3

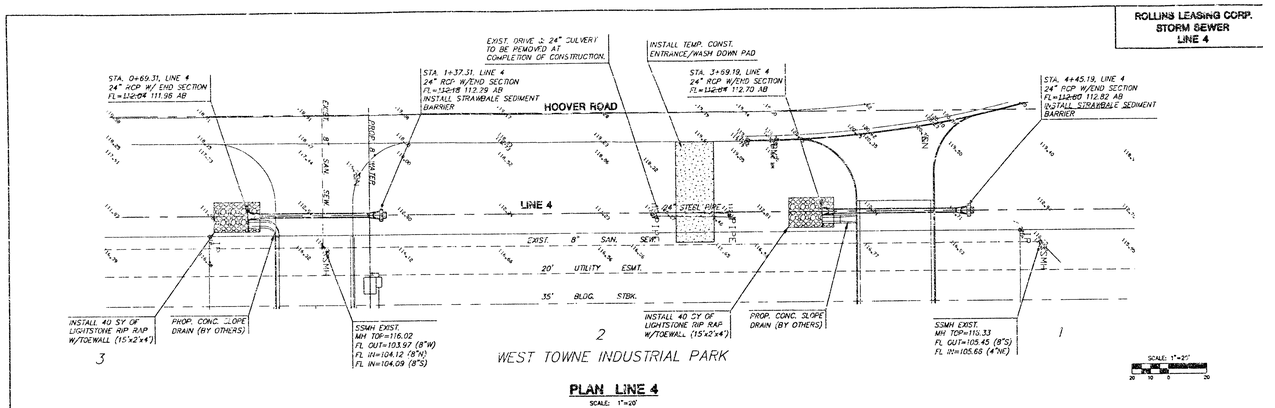


PLAN LINES 2&3



3/8

ROLLINS LEASING CORP.
STORM SEWER
LINE 4



PLAN LINE 4

SCALE: 1"=20'

PROFILE LINE 4

SCALE: HORZ. 1"=20'
VERT. 1"=5'

