STORM SEWER AND SANITARY SEWER ABANDONMENT PLANS TO SERVE LOT 2, BLOCK 1 COMOTARA POWER CENTER

PRIVATE PROJECT NO. 563PPS

CITY OF WICHITA, KANSAS
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER
INDEX CODE: 607861

D-437
710 APS Booked

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

STORM SEWERS VRH 7/14/95

SANITARY SEWERS VRH 7/14/95

GENERAL NOTES

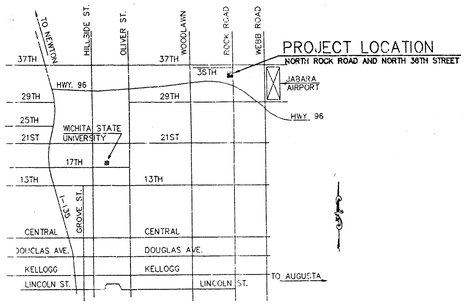
1. THE TOPS OF INLETS AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX--UNLESS OTHERWISE NOTED.
3. 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. 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. CONTRACTOR SHALL EXPOSE ALL UTILITIES AT POSSIBLE POINTS OF CONFLICT PRIOR TO ANY CONSTRUCTION.
6. 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

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

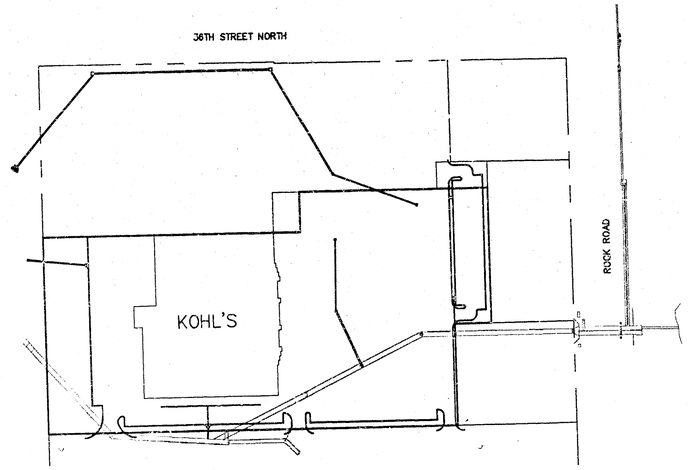
CABLEVISION	263-2061
KANSAS GAS & ELECTRIC	264-1141
SOUTHWEST BELL TELEPHONE COMPANY	1-571-2611
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER MAINTENANCE	268-4071

7. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
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 WHICH, 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. SITE RESTORATION AND PREPARATION SHALL BE SUBSIDIARY TO THE PROJECT.



PROJECT LOCATION
NORTH ROCK ROAD AND NORTH 36TH STREET

VICINITY MAP
NOT TO SCALE



STORM SEWER LINE LOCATION MAP
NO SCALE

Sanitary Sewer Booked 8-25-95 JKB As Per Plat

INDEX TO SHEETS:

1. TITLE SHEET
2. STORM SEWER PLAN
3. STORM SEWER PROFILE
4. STORM SEWER PROFILE
5. GRATED DROP INLET DETAILS
6. STANDARD TYPE 1A CURB INLET DETAILS
7. MANHOLE DETAILS

BENCHMARKS

BENCHMARK #1: BRASS DISC CITY OF WICHITA
CITY ELEV. = 198.30
USGS ELEV. = 1385.72

BENCHMARK #2: CHISELED "□" TOP CURB INLET NEAR CORNER OF STAR LUMBER BUILDING.
CITY ELEV. = 194.05
USGS ELEV. = 1381.45

BENCHMARK #3: CHISELED "X" IN CONCRETE AT THE SOUTHEAST CORNER OF LOT 3, BLOCK 1, COMOTARA POWER CENTER TO THE CITY OF WICHITA, KANSAS.
CITY ELEV. = 197.82
USGS ELEV. = 1385.22

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.

Sam D. Malinowsky 7-13-95
SAMUEL D. MALINOWSKY
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
2	7/13/95	REVISED STORM SEWER LOCATION & ADDED STORM SEWER ABANDONMENT	JT
1	6/27/95	REVISED PER CITY OF WICHITA	JT

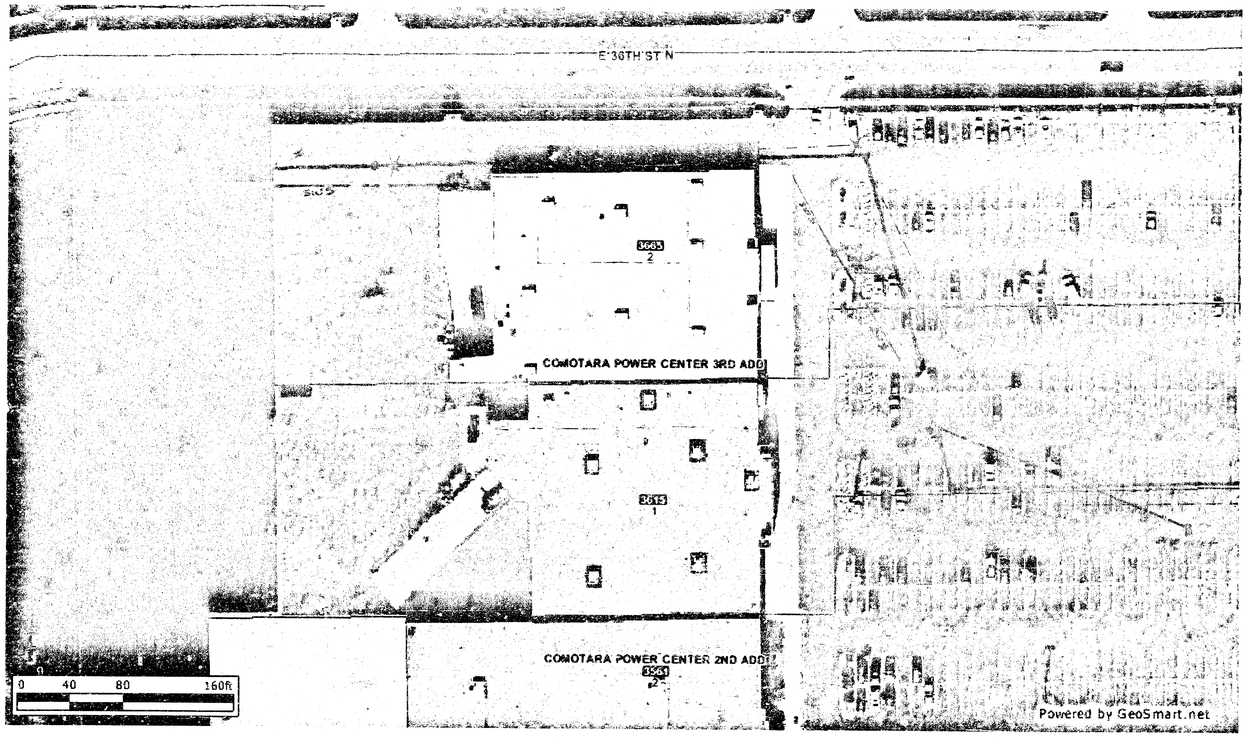
TITLE SHEET

P.O. BOX 1301
2319 NORTH JACKSON
JUNCTION CITY, KANSAS
66441
(913)762-5040
FAX 913-762-7744

KAW VALLEY ENGINEERING, INC

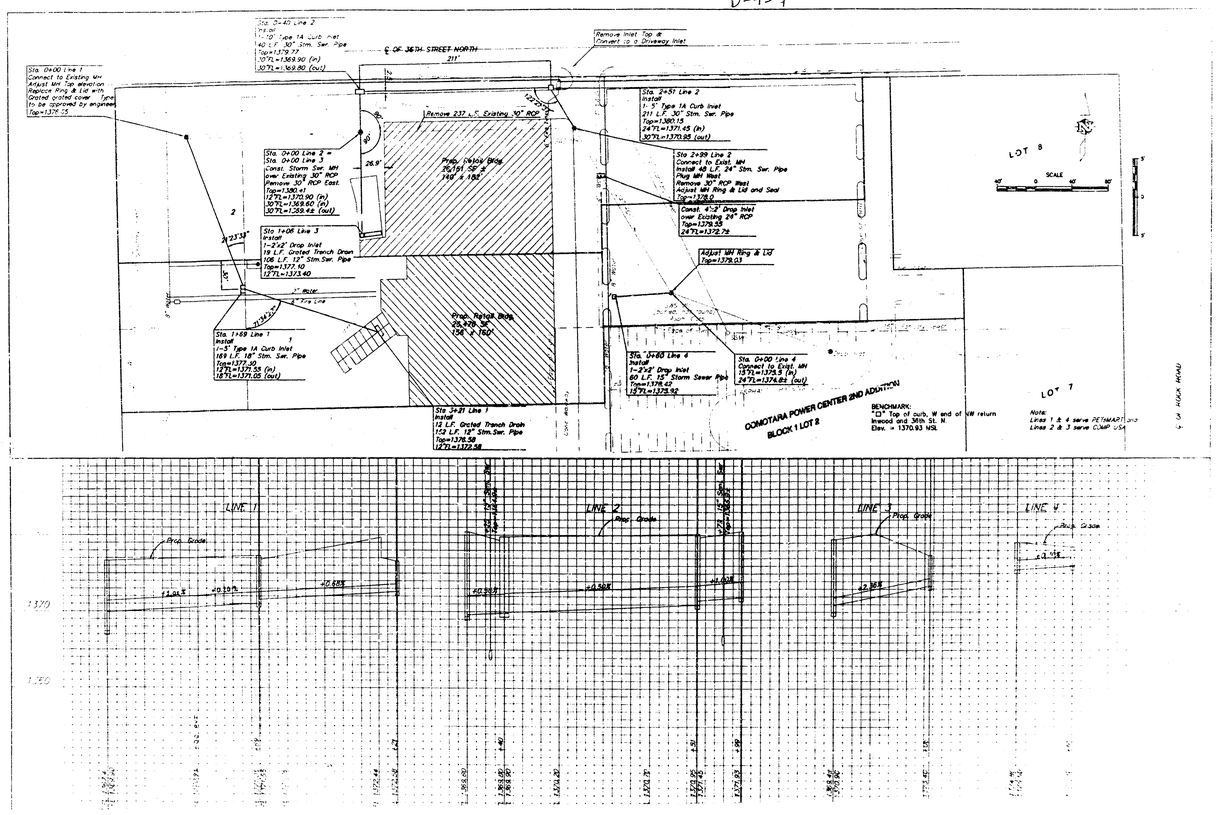
122 N.W. PARKWAY
RIVERSIDE, MISSOURI
64150
(816)587-5033
9571 ALDEN ROAD
LENEXA, KANSAS
66215
(913)894-5150

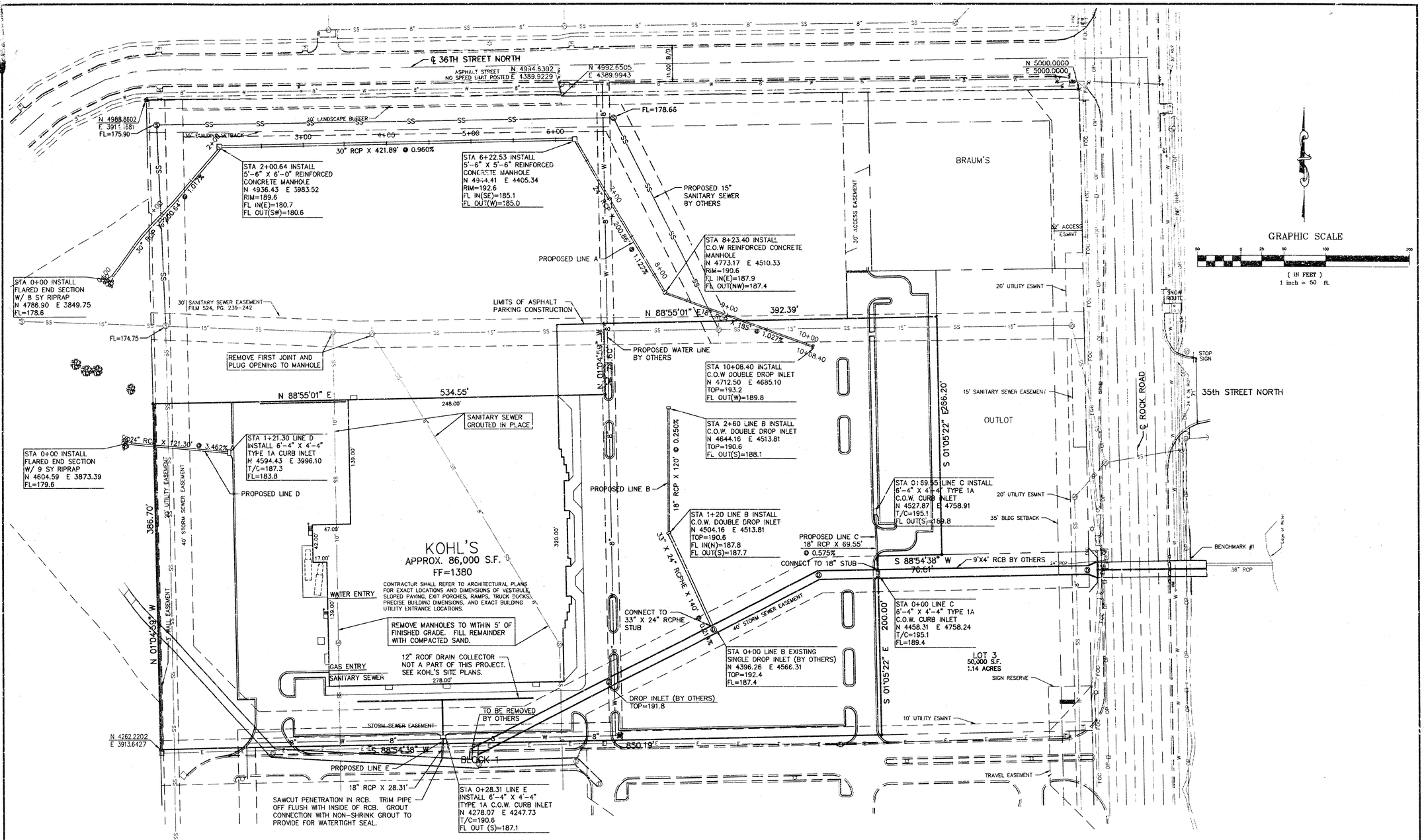
PROJ. NO.	95-168
DATE	JUNE 8, 1995
DESIGNER	SDM
DRAWN BY	JT
CHECKED BY	
CFN	168311
SHEET	1 OF 7



See 710 PPS when Booking 563 PPS
710 abandon some pipe
D-434

Booked
B-434


Sta. 0+40 Line 2
Install
1 - 10' Type 1A Curb Inlet
40 L.F. 30" Stm. Swr. Pipe
Top=1379.77
30"FL=1369.90 (in)
30"FL=1369.80 (out)
℄ OF 36TH STREET NORTH
211'
Remove Inlet Top &
Convert to a Driveway Inlet
Sta. 0+00 Line 1
Connect to Existing MH
Adjust MH Top elevation
Replace Ring & Lid with
Grated grated cover Type
To be approved by engineer
Top=1376.75
Remove 237 L.F. Existing 30" RCP
Sta. 0+00 Line 3 =
Sta. 0+00 Line 3
Const. Storm Swr. MH
over Existing 30" RCP
Remove 30" RCP East.
Top=1380.41
12"FL=1370.90 (in)
30"FL=1369.60 (in)
30"FL=1369.46 (out)
Prop. Brick Bldg.
26,191 SF @
148' x 182'
Sta 2+51 Line 2
Install
1 - 5' Type 1A Curb Inlet
211 L.F. 30" Stm. Swr. Pipe
Top=1380.15
24"FL=1371.45 (in)
30"FL=1370.85 (out)
Sta 2+99 Line 2
Connect to Exist. MH
Install 48 L.F. 24" Stm. Swr. Pipe
Plug MH West
Remove 30" RCP West
Adjust MH Ring & Lid and Seal
Top=1378.0
Const. 4'-0" Drop Inlet
over Existing 24" RCP
Top=1379.55
24"FL=1372.76
Adjust MH Ring & Lid
Top=1379.03
Sta. 1+08 Line 3
Install
1-2'x2' Drop Inlet
19 L.F. Grated Trench Drain
108 L.F. 12" Stm.Swr. Pipe
Top=1377.10
12"FL=1373.40
12" water
Fire Line
Prop. Retail Bldg.
28,478 SF
158' x 180'
Sta. 1+69 Line 1
Install
1-5' Type 1A Curb Inlet
169 L.F. 18" Stm. Swr. Pipe
Top=1377.30
12"FL=1371.55 (in)
18"FL=1371.05 (out)
Sta. 3+80 Line 4
Install
1-2'x2' Drop Inlet
60 L.F. 15" Storm Sewer Pipe
Top=1378.62
15"FL=1375.92
Sta. 0+00 Line 4
Connect to Exist. MH
15"FL=1375.9 (in)
24"FL=1374.84 (out)
Sta. 3+21 Line 3
Install
12 L.F. Grated Trench Drain
153 L.F. 12" Stm.Swr. Pipe
Top=1376.58
12"FL=1372.58
CONCRETE
CONCRETE
CONCRETE



NOTE: PIPE DISTANCES ARE CENTER TO CENTER OF STRUCTURE.

COORDINATES ARE TO CENTER OF DROP INLETS, TO CENTER OF FRONT OF FACE OF CURB INLETS AND TO CENTER OF END OF END SECTIONS.

BENCHMARK #1: BRASS DISC CITY OF WICHITA
CITY ELEV. = 198.30
USGS ELEV. = 1385.70

BENCHMARK #2: CHISELED "□" TOP CURB INLET NEAR CORNER OF STAR LUMBER BUILDING.
CITY ELEV. = 194.05
USGS ELEV. = 1381.45

BENCHMARK #3: CHISELED "X" IN CONCRETE AT THE SOUTHEAST CORNER OF LOT 3, BLOCK 1, COMOTARA POWER CENTER TO THE CITY OF WICHITA, KANSAS.
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NO.	DATE	REVISION	BY
2	7/13/95	REVISED STORM SEWER LOCATION & ADDED SANITARY SEWER ABANDONMENT	JT
1	6/27/95	REVISED PER CITY OF WICHITA	JT

STORM SEWER PLAN

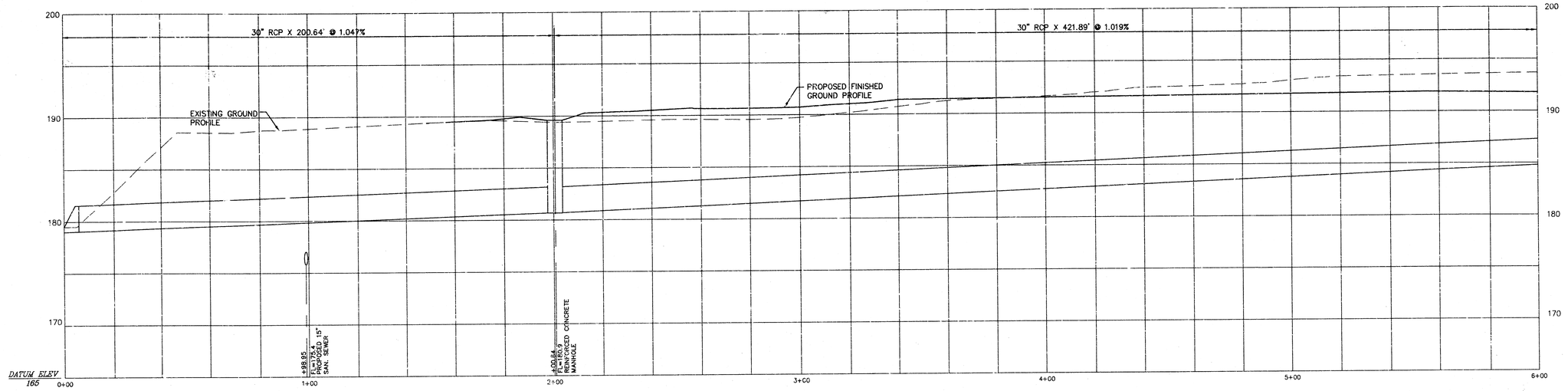
P.O. BOX 1304
2319 NORTH JACKSON
JUNCTION CITY, KANSAS
66441
(913)762-5040
FAX 913-762-7744

KAW VALLEY ENGINEERING, INC

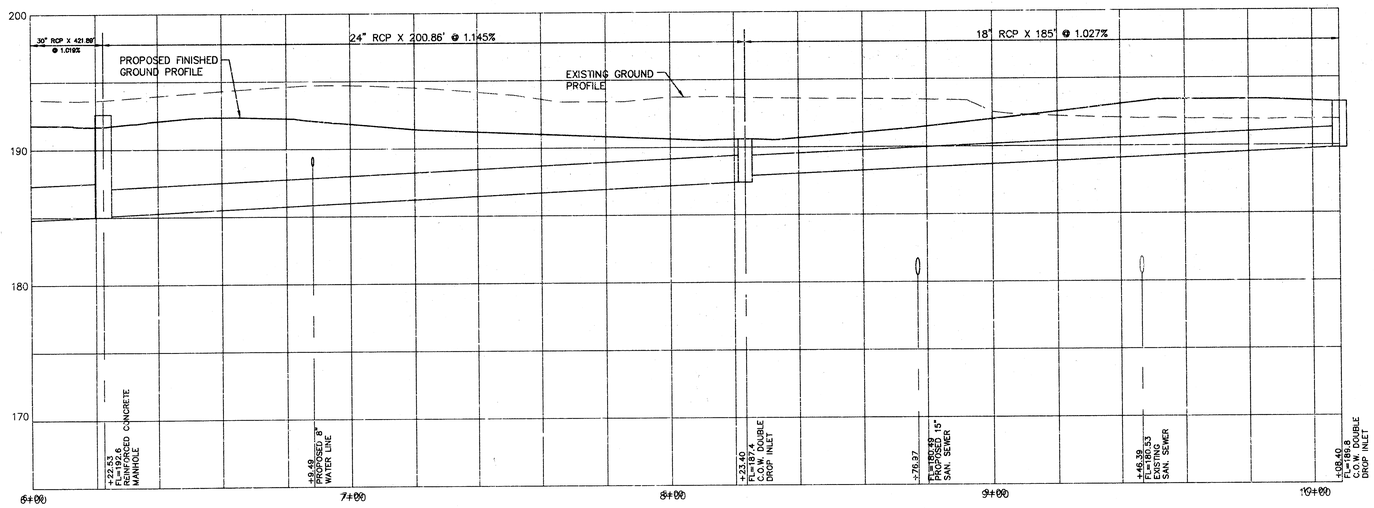
122 N.W. PARKWAY
RIVERSIDE, MISSOURI
64150
(816)587-5033

9571 ALDEN ROAD
LENEXA, KANSAS
66215
(913)894-5150

PROJ. NO.	95-1683
DATE	JUNE 8, 1995
DESIGNER	SDM
DRAWN BY	JT
CHECKED BY	
CFN	16815751
SHEET	2 OF 7



PROPOSED LINE A



PROPOSED LINE A

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

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STORM SEWER PROFILES

P.O. BOX 1304
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66441
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KAW VALLEY ENGINEERING, INC

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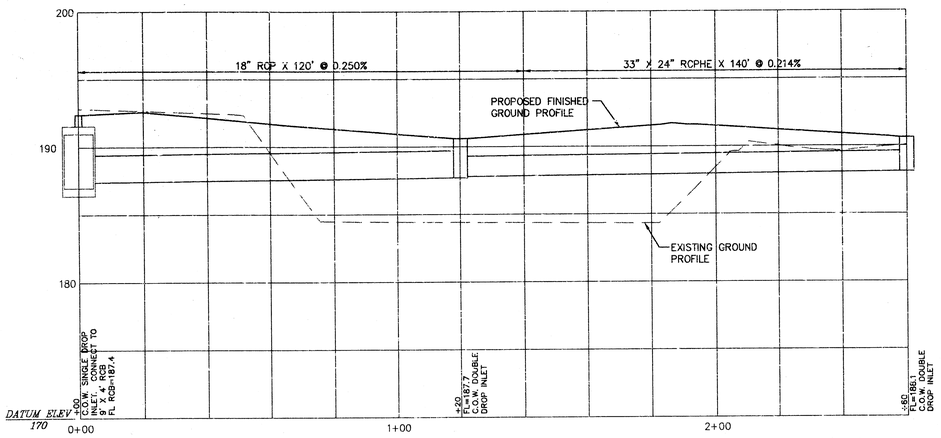
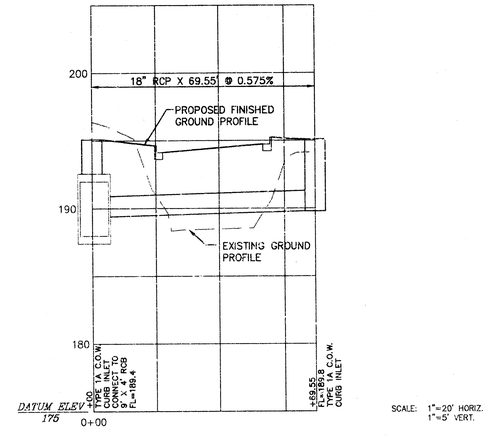
(816)587-5035
9571 ALDEN ROAD
LENEXA, KANSAS
66215
(913)694-5156

PROJ. NO.	95-1683
DATE	JUNE 8, 1995
DESIGNER	SDM
DRAWN BY	JT
CHECKED BY	
CTN	1683ST52
SHEET	3 OF X

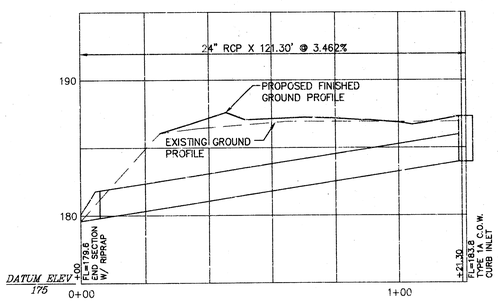


PROPOSED LINE B

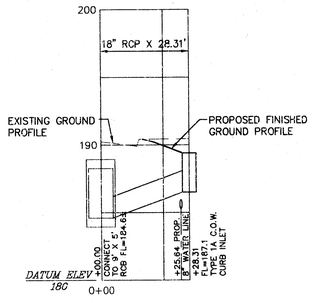


SCALE: 1"=20' HORIZ.
1"=5' VERT.

PROPOSED LINE C



PROPOSED LINE D



PROPOSED LINE E

BENCHMARK #1: BRASS DISC CITY OF WICHITA
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STORM SEWER PROFILE

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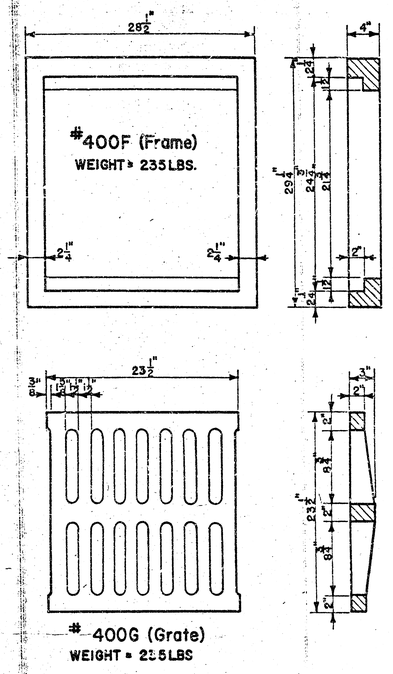
RIVERSIDE, MISSOURI
64150
(816)587-5033

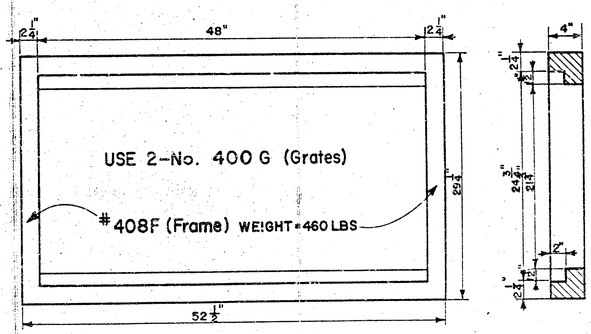
9571 ALDEN ROAD
LENEXA, KANSAS
66215
(913)894-5150

PROJ. NO.	95-1683
DATE	JUNE 26, 1995
DESIGNER	SDM
DRAWN BY	JT
CHECKED BY	
DFN	1683ST52
SHEET	4 OF 7

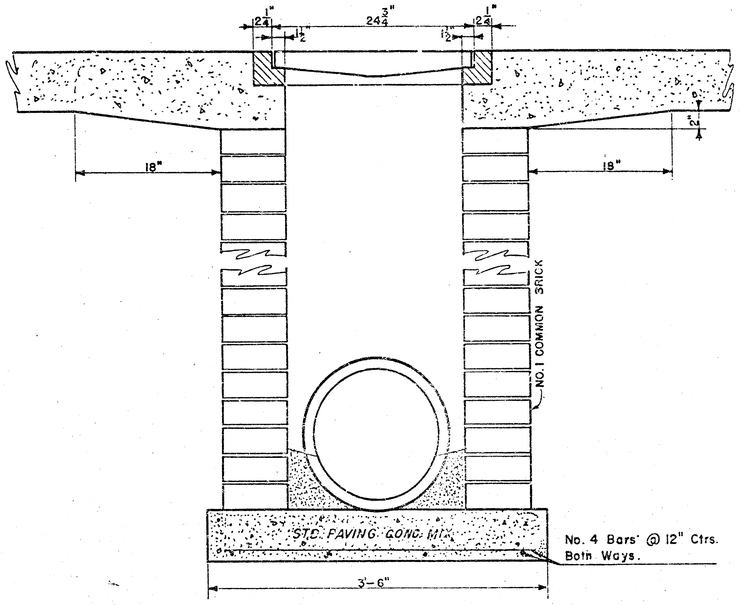
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.

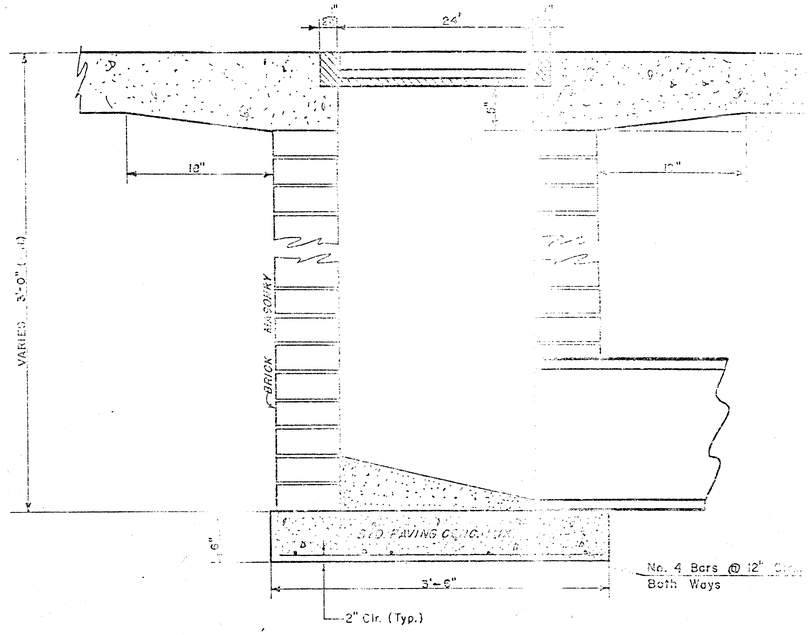


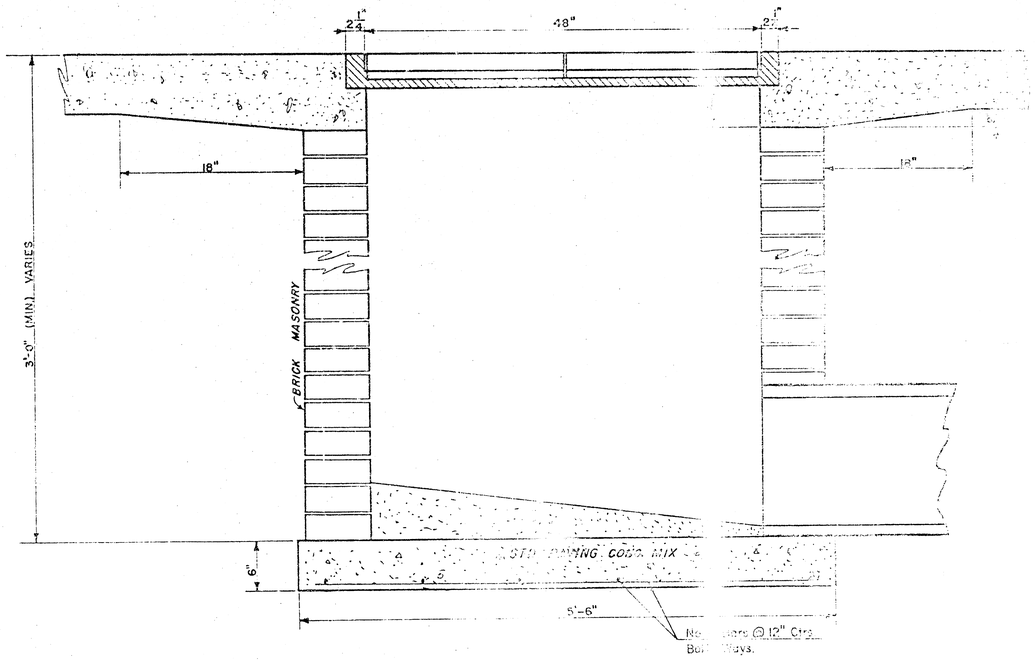
24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail

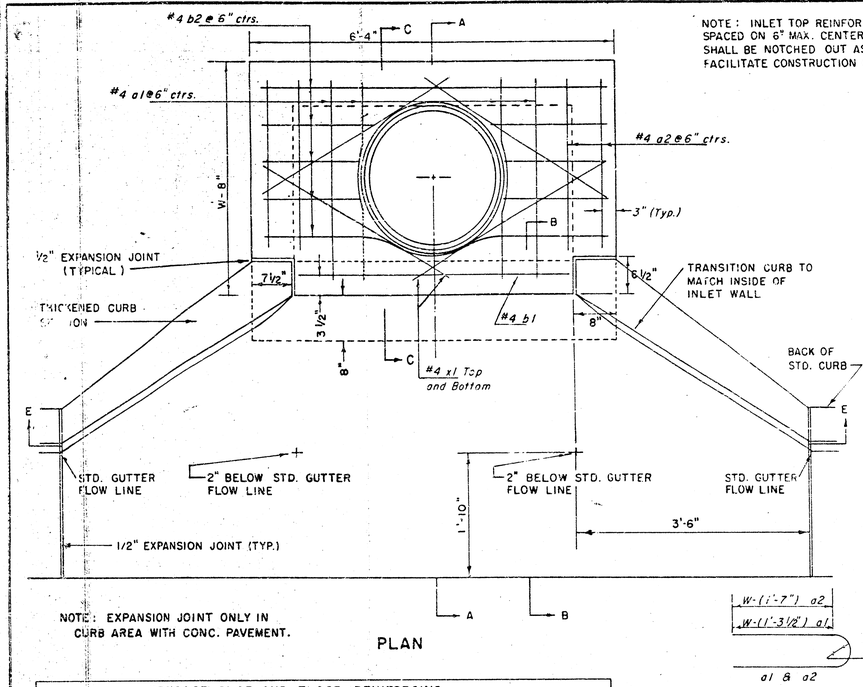






M.E. Lindebak, C...
City of Wich...
Project
Project No.
Date:
Scale: 1-1/2" = ...

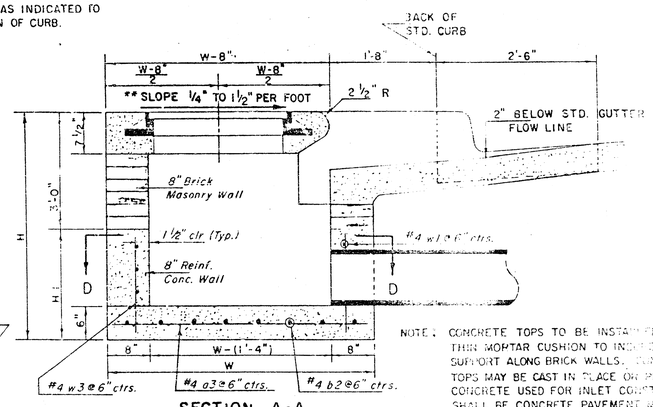
SH. 5 OF 7



NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

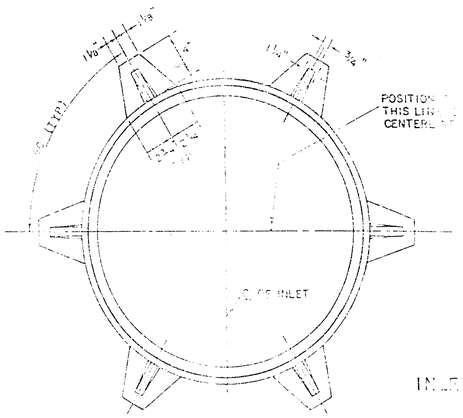
PLAN

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

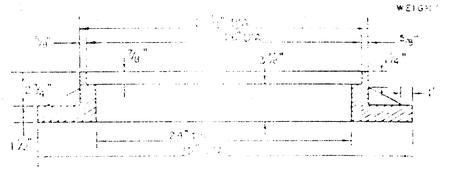


SECTION A-A

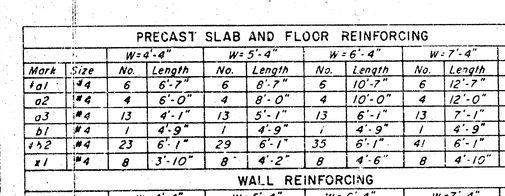
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX WITH AIR ENTRAINMENT.



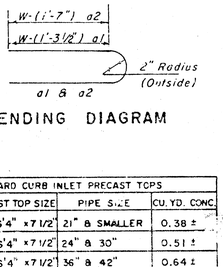
INLET



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



SECTION E - E



BENDING DIAGRAM

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
a1	#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)	5'-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) "H÷3"

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC
4' 4"	3'8"x 6'4" x7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4'8"x 6'4" x7 1/2"	24" & 30"	0.51 ±
6' 4"	5'8"x 6'4" x7 1/2"	36" & 42"	0.64 ±
7' 4"	6'8"x 6'4" x7 1/2"	48" & 54"	0.77 ±
8' 4"	7'8"x 6'4" x7 1/2"	60" & 66"	0.90 ±

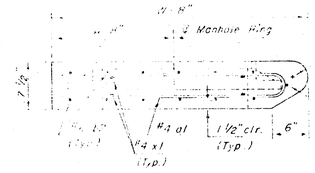
** NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.

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.

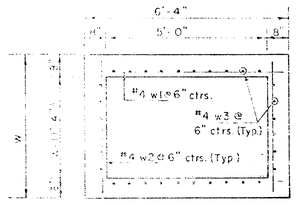
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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.

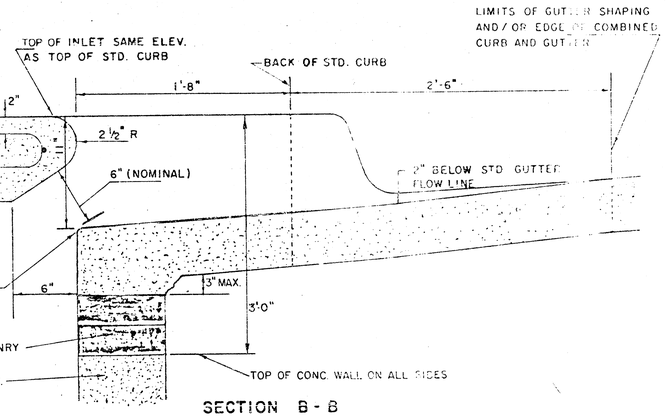
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SECTION C-C



SECTION D-D



SECTION B - B

~~REVISED 11-30-1933~~

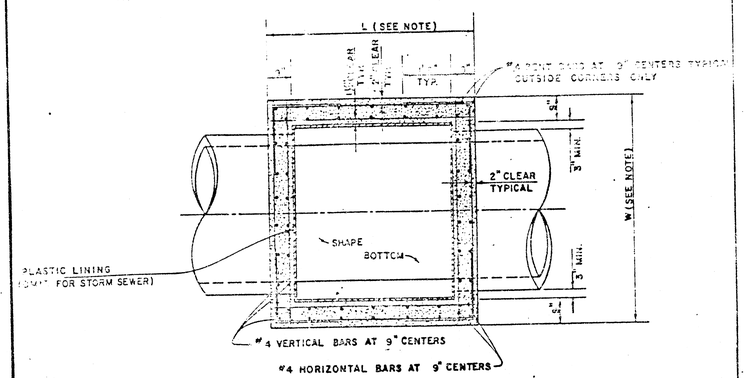
~~REVISED 12-21-1934~~ Revised 2-16-1939

DETAIL STANDARD TYPE 1A CURB INLET

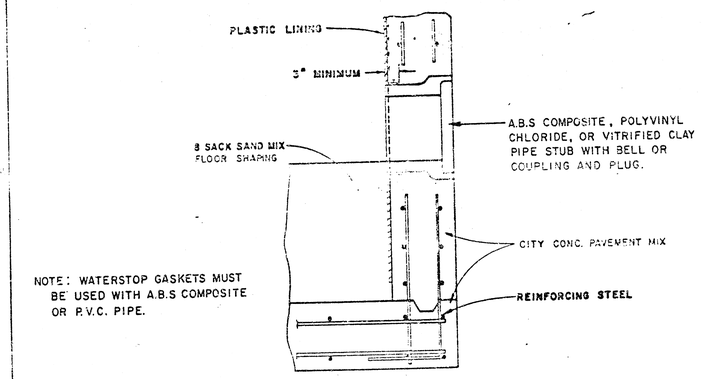
CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5'-0"

JUNE 1934

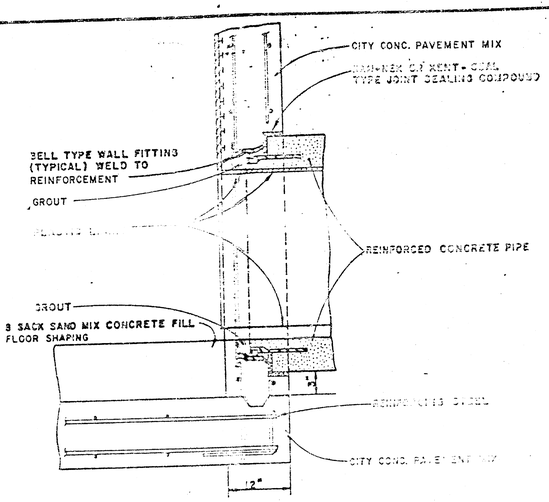


TOP VIEW

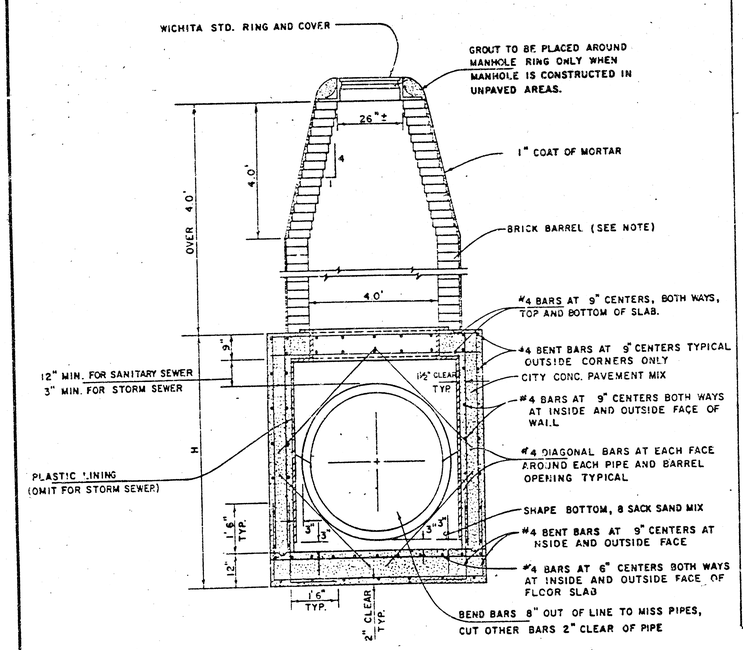


NOTE: WATERSTOP GASKETS MUST BE USED WITH A.B.S COMPOSITE OR P.V.C. PIPE.

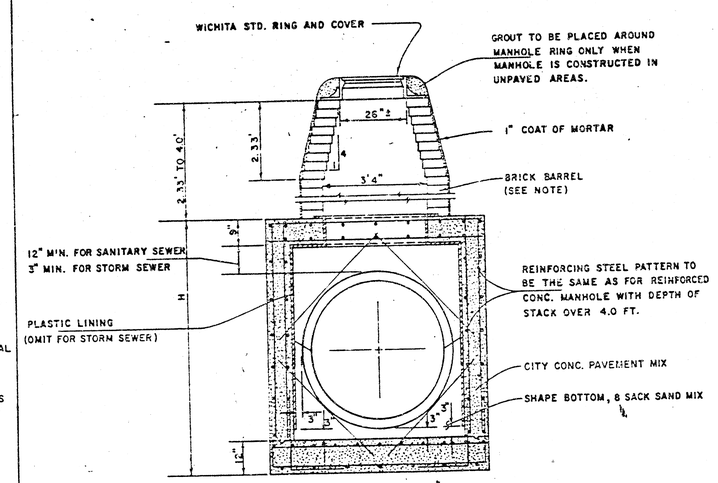
PIPE STUB DETAIL
SANITARY SEWER ONLY



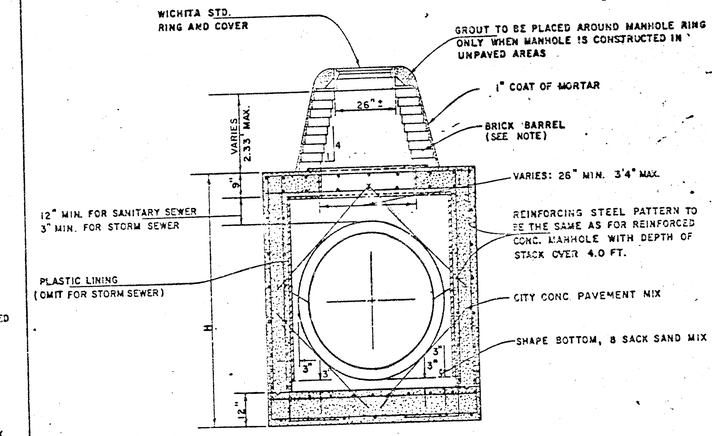
R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12" BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT. COMLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATERTIGHT.

REVISIED 1-7-85

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

FEBRUARY 1984

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