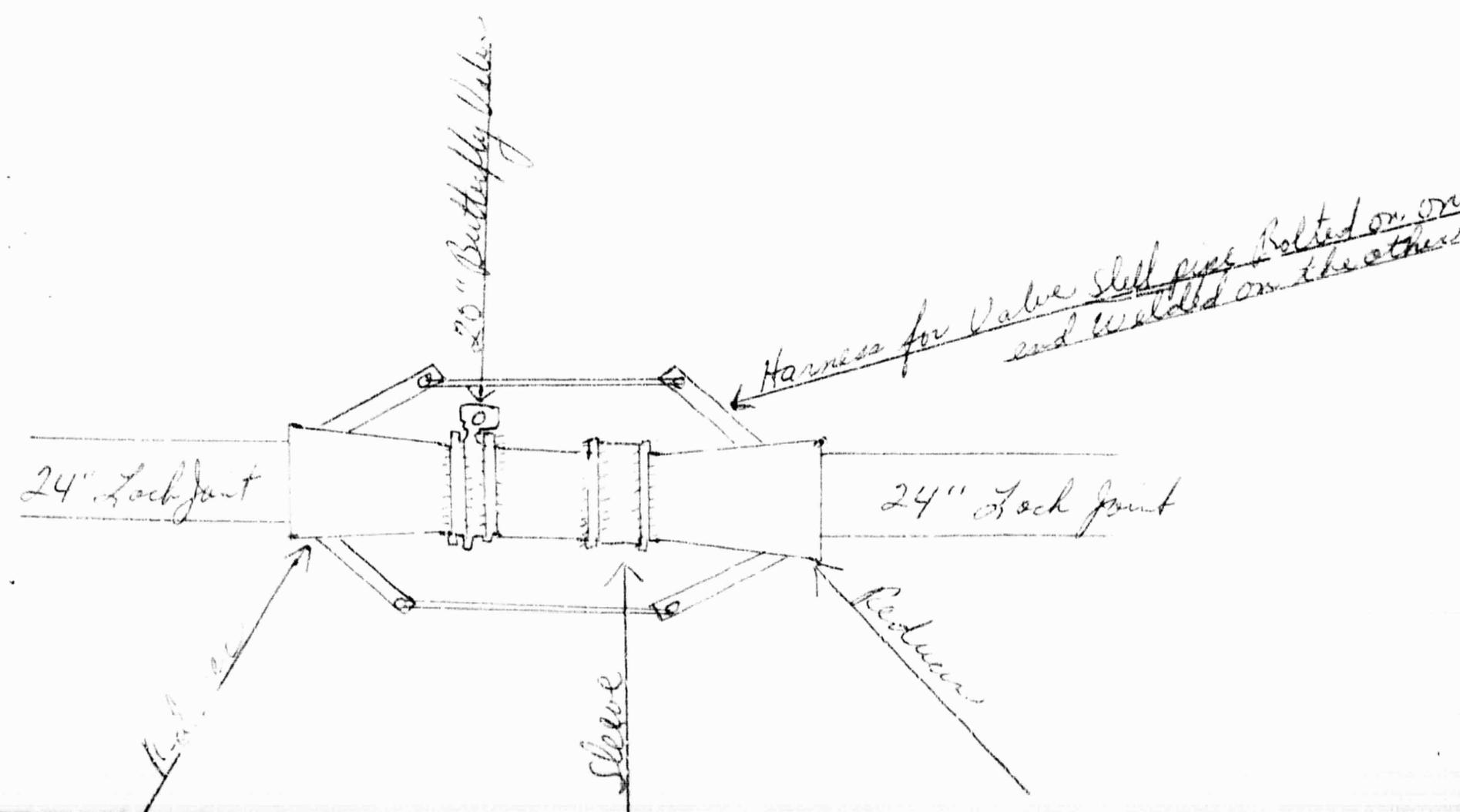


Valve Set-up on Maple West edge of Bridge west of Flood Ditch



**WICHITA WATER DEPARTMENT
CONTRACTOR'S INSTALLATION REPORT**

W.O. No. 575-80-925-21194-000-000-816 of _____
 Contractor W. B. Carter Date: Started 1-7-1983 Completed 1-4-1984
 Description 24" Jack joint main from 243' W of W edge of
Bridge on Maple to tie in at Ralatin

Main Installed (Total Measured Length)					CODE	
Feet	Size	Type	Along	From	To	OR R
3379	24"	L.F.	Maple	243' W of W edge of Bridge	Ralatin	1
19	20"	A.C.	South side of Maple + Ralatin tie tie in on West side of Ralatin			1

Location (1) Main, (2) End of Main, (3) Fittings, (4) Hydrant, (5) Valves

I.D. No.	Loc.	Description
	1	Main in 35' N of E of Maple at Bennett 35' N of E of Maple at Curpha 39' N of E of Maple at Fairhouse Main at Fairhouse using to 22' N of E of Maple to 21' N of E of Maple at Ralatin
	3	11" Elbow in 34' N of E of Maple + 37' W of E of Fairhouse
	3	11" Elbow in 21' N of E of Maple + 77' W of E of Fairhouse
	3	90° Bend on North side of Maple in 30' S of N.P.L. of Maple + 30' East of E of Ralatin
	3	90° Bend on South side of Maple in 18' S of E of Maple + 30' East of E of Ralatin
	3	Reducer in 10' East of E of Ralatin + 18' S of E of Maple

Permit Type _____ Size of Cut _____ Cut Permit No. _____
 Trench Depth: Max. 8' Min. 3' Avg. 6' Soil Type Clay + Loam
 Excavation (Lin. Ft.) Trencher _____ Hand _____ Bore or Tunnel _____
 Add'l. Infor. (Attach sketch & add'l. sheets if required) _____

Contractor-Supt. Jim Craig Inspector Narrell Baker
 Water Main's Supt. R. Clark 2-16-84 Chief Engr. T & D. _____

WICHITA WATER DEPARTMENT CONTRACTOR'S INSTALLATION REPORT

01-750-2A
MAR. 9, 1981

W.O. No. 595-20-925-21194-000-000-816 _____ of _____
 Contractor W. B. Carter Date: Started 2-7-1983 Completed 1-4-84
 Description Kennedy Hydt north side of Maple at Maple Lane

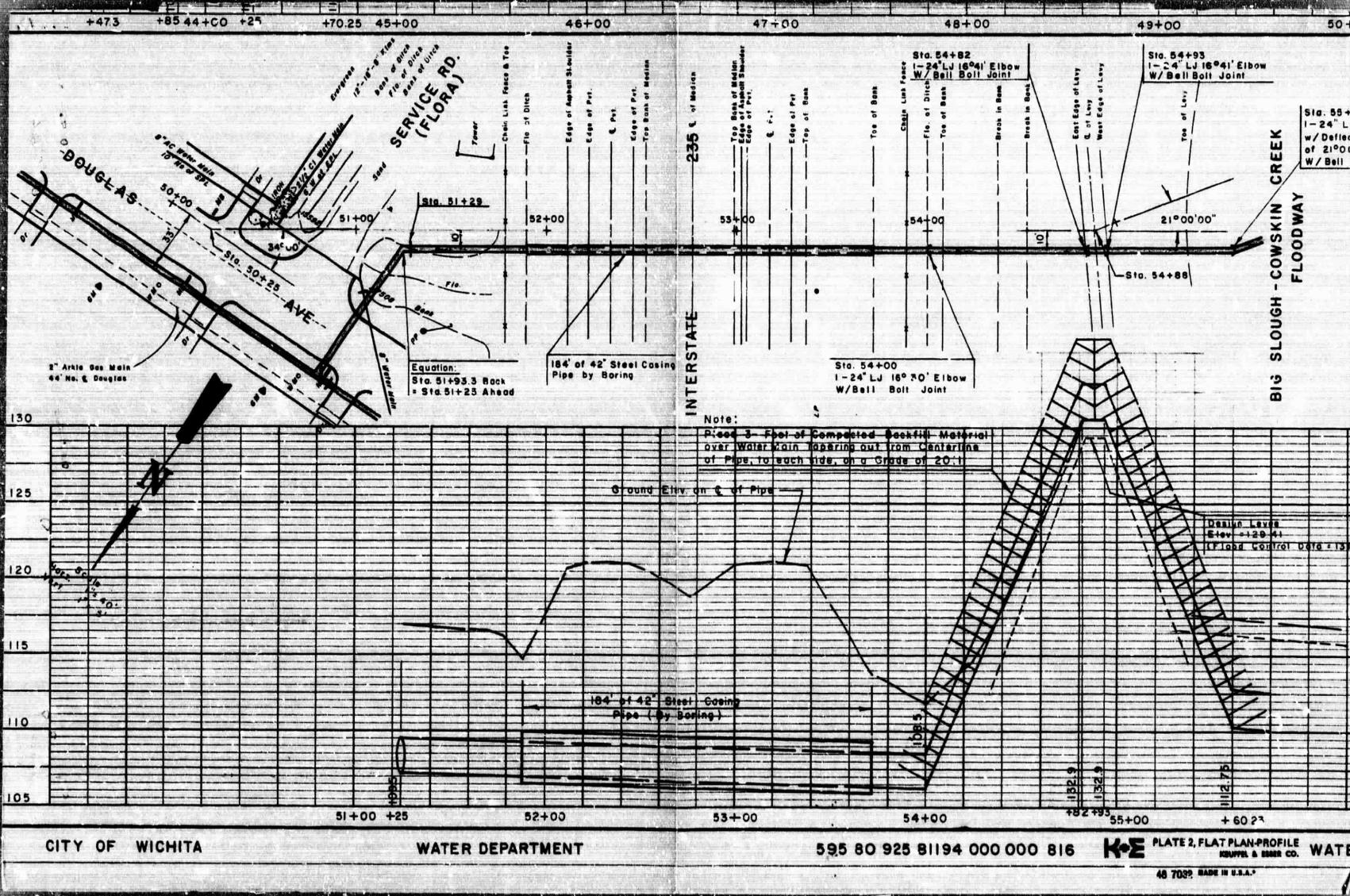
Main Installed (Total Measured Length)						CODE I OR R
Feet	Size	Type	Along	From	To	

Location (1) Main, (2) End of Main, (3) Fittings, (4) Hydrant, (5) Valves

I.D. No.	Loc.	Description
	3	6" side outlet flange on 24" Tee joint in 39' N of E of Maple + 13' E of E of Maple Lane
61280 CS	4	Kennedy Hydt in 26' N of E of Maple + 13' E of E of Maple Lane
2388 C	5	Hydt valve in 8' N of Hydt. 3 24" offset in 9' N of Hydt (6" CT offset w/ 24" long NIKRE)

Permit Type _____ Size of Cut _____ Cut Permit No. _____
 Trench Depth: Max. _____ Min. _____ Avg. _____ Soil Type _____
 Excavation: (Lin. FL) Trencher _____ Hand _____ Bore or Tunnel _____
 Add'l. Infor. (Attach sketch & add'l. sheets if required) _____

Contractor-Supt. Jim Craig Inspector Darrell Baker
 Water Main's Supt. B. Clark 2-16-84 Chief Engr. T & D. _____



CITY OF WICHITA

WATER DEPARTMENT

595 80 925 81194 000 000 816

K-E PLATE 2, FLAT PLAN-PROFILE
 HUNTER & BISHOP CO. WATE

46 7009 MADE IN U.S.A.

FILMED FROM THE BEST AVAILABLE COPY

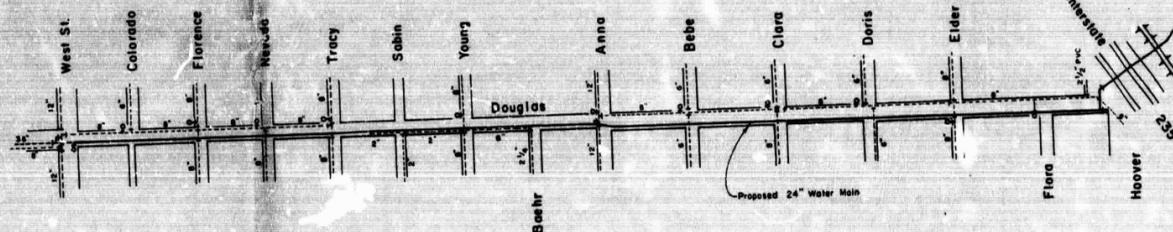
NOTES

1. All WATER MAINS and appurtenances shall be installed in accordance with STANDARD SPECIFICATION for Water Main Installations, Number 14533
2. Shaded areas indicate the amount of paving to be removed and replaced as recommended by the STREET MAINTENANCE DEPT.
3. All WATER MAINS to have a minimum of 1' Clearance between bottom of STORM SEWER pipe and top of WATER MAIN except as noted.
4. All Black Corners and control points will be protected. If removed during Construction, CONTRACTOR will have them replaced by a LICENSED ENGINEER or LAND SURVEYOR at his expense.

5. Notify the following companies prior to any trenching.

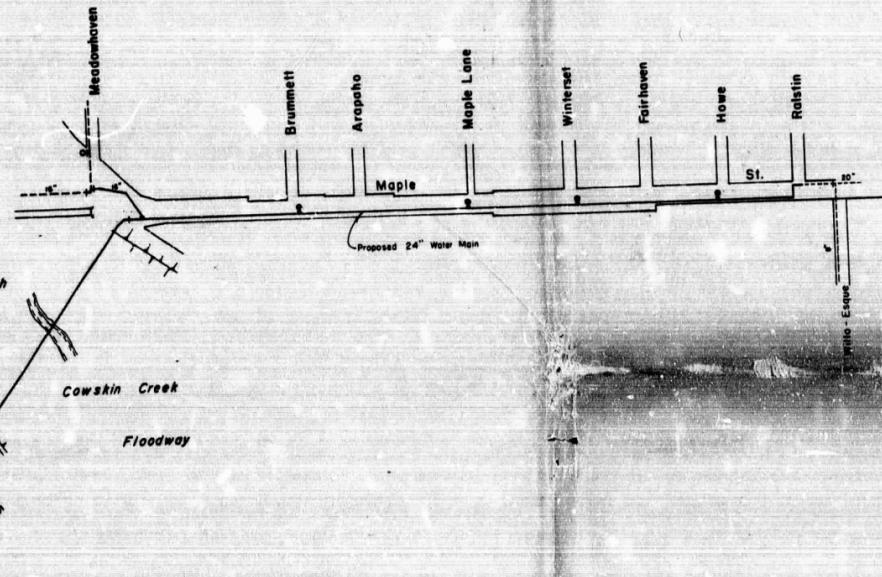
BELL TELEPHONE COMPANY	268-3087
KANSAS GAS & ELECTRIC	261-6248
GAS SERVICE CO.	263-7511
TRAFFIC O & M	268-4129
CABLEVISION	266-6817
KAN-U-DIG-IT	262-8953
ARKLA GAS CO.	942-8350

6. Douglas may be closed between Baehr and Anna day and night as necessary.
7. The remainder of Douglas may be closed if necessary except between 7:00 AM and 8:30 AM and 4:30 PM and 6:00 PM Monday thru Friday.
8. Not more than Four north-south streets that intersect Douglas may be closed at the same time.



CITY OF WICHITA WATER DEPARTMENT WATER ENGINEERING DIVISION PLAN AND PROFILE OF WATER MAIN CONSTRUCTION

1982



9. If Douglas is closed, the contractor shall erect and maintain his own ROAD CLOSED AHEAD or ROAD CLOSED - LOCAL TRAFFIC ONLY signs in advance of the construction at location such as West St., Anna or Elder depending upon the location of the closure.
10. On Maple between I-235 and Fairhaven, the street shall not be completely closed. If necessary, one lane of Maple may be closed in this area except between 7:00 AM - 8:30 AM and 4:30 PM - 6:00 PM Monday thru Friday but the contractor must provide necessary signs and flaggers required by the Barricade Manual.
11. Maple may be closed between Fairhaven and Reistin when absolutely necessary. The contractor should attempt to close Maple early in a week and work diligently to re-open it as soon as possible. The City Traffic O & M Division (268-4129) will furnish ROAD CLOSED - LOCAL TRAFFIC ONLY signs to be placed at West St. Elder & Ridge Rd. They shall be erected, removed and maintained as necessary by the contractor.
12. For complete street closing the contractor must give an estimated closing date approximately seven (7) days in advance and a firm closing time at least twenty-four (24) hours in advance. Partial street closings must be given three (3) days advance notice. Contact the Traffic O & M Supervisor at 268-4129 to give partial or complete street closing notices.
13. The contractor shall maintain signing in conformance with requirement of the City of Wichita's Barricade Manual.
14. Existing traffic signs will be removed and replaced at no charge by the Traffic O & M Division if they are contacted the day before removal is needed.

LEGEND

Existing Water Main	-----
Existing Valve	-----+-----
Existing Fire Hydrant	-----●-----
Proposed Water Main	—————
Proposed Valve	—————+—————
Proposed Fire Hydrant	—————●—————

925-81194

Work Order Number
595-80-925-81194-000-000-818

Reviewed by
Traffic Operations & Maintenance Director

Reviewed by
Street Maintenance Director

Recommended for Approval
Chief Engineer Water Engineering

Approved
Street Maintenance Director



STATE OF KANSAS
DEPT. OF HEALTH & ENVIRONMENT
DIVISION OF ENVIRONMENT
APPROVED
1-27-83
TOPERA, KANSAS

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SPECIFICATION

NO. KC-83- 4-1

GHA Lock Joint Pipe

FOR: 24" PRESTRESSED CONCRETE CYLINDER PIPE WITH RUBBER AND STEEL JOINTS (SP-5)
 WATER MAIN CONSTRUCTION ON DOUGLAS AND MAPLE AVE.,
 WICHITA, KANSAS
 WATER DEPARTMENT, WATER ENGINEERING DIVISION, WICHITA, KANSAS
 FOR JOINT DETAILS SEE: GHA LOCK JOINT ENGINEERING MANUAL SECTION 1 PAGE 6

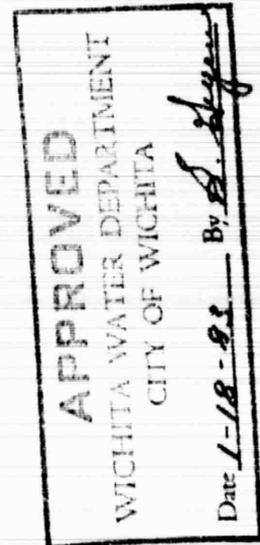
NOMINAL DIAMETER - inches	24.
CLASS DESIGNATION	
APPROXIMATE FOOTAGE - feet	8550.0
MIN. CYL. t - inches	.0568
ASTM A570 Gr. 33	
NOMINAL CYLINDER DIAMETER - inches	27.00000
CYLINDER TEST PRESSURE - psi	95
WIRE SIZE - ASTM A648-73	6.0000
WIRE CLASS	3.0
WIRE AREA - sq. in./ft. = (As)	.232
NO. OF WRAPS OF WIRE PER FT	8.00
MIN. ULTIMATE WIRE STRENGTH - psi = (f _{su})	252000
WIRE WRAPPING STRESS - psi = (f _{sw})	189000
DYNAMOMETER (1 wire) - lbs.	5472
(AsF _{sw}) = (.75Asf _{sw}) - lbs/ft. (SEE NOTE A)	43848
PRESSURE AT ZERO CONCRETE COMPRESSION - psi	188
RESULTANT COMPRESSION IN CONCRETE - psi	1390
MIN. COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF WRAPPING (ROBBER OR VIBRATED CYLINDERS) - psi	3500
CORE THICKNESS (INCLUDING CYLINDER) - inches	1- 1/ 2
MIN. COATING THICKNESS - inches	0-13/16
ZINC COATED JOINT RINGS:	
SPIGOT RING WIDTH - inches	4- 1/ 2
BELL RING WIDTH - inches	4- 1/ 2
BELL RING THICKNESS - inches	0- 3/16
GASKET DIAMETER - inches	21/32
JOINT DEPTH - inches	3- 1/ 4
CREEP - feet	0.02
AVERAGE LAID LENGTH - feet	16.02

CALCULATION DATA INI= 6. CR=1.5 RI=.05 R2=.00

DESIGN CONDITIONS:
 IN ACCORDANCE WITH AWWA C301-79

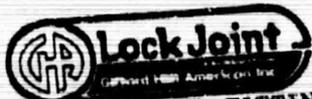
WORKING PRESSURE - psi	150
SURGE PRESSURE - psi	60
TEST PRESSURE - psi	150
HEIGHT OF COVER - feet	12

NOTE A: Should material shortages require use of alternate size or strength wire, wire area
 No. of wraps, wrapping stress and Dynamometer will be varied
 as required to maintain the value of (AsF_{sw}) as shown. L102405150



SPECIFICATION

NO. KC-83-4-2



FOR SPECIAL FITTINGS FOR LOCK JOINT PIPE W/RUBBER & STEEL JOINTS SP-5

WATER MAIN CONSTRUCTION: ON DOUGLAS AND MAPLE AVENUE

WICHITA, KANSAS

WATER DEPARTMENT, WATER ENGINEERING DIVISION, WICHITA, KANSAS

SEE DRAWING GHA LOCK JOINT ENGINEERING MANUAL OR AS NOTED

24" SP-5

ELBOWS: (TYPE "B")

CYLINDER "t" = 1/4"

SECTION 3, PAGES 1 & 2

REDUCERS: (TYPE "B") CONCENTRIC

24" LJ X 20" MJS W/(2) LUGGING EARS
CYLINDER "t" = 3/16"

DWG. S-3-1314
DWG. S-3-1316

24" LJ X 16" MJS
CYLINDER "t" = 3/16"

SECTION 5, PAGE 1
SECTION 9, PAGES 1 & 2

24" LJ X 20" MJB
CYLINDER "t" = 3/16"

SECTION 5, PAGE 1
SECTION 9, PAGES 3 & 4

OUTLETS:

1" MUELLER THREADED GUTLET
SADDLE = 3/16" X 6" WIDE

SECTION 6, PAGES 1 & 2

6" FLANGE OUTLET
SADDLE = 3/16" t X 20" WIDE
OUTLET NECK - 1/4" X 7-1/2" O.D.

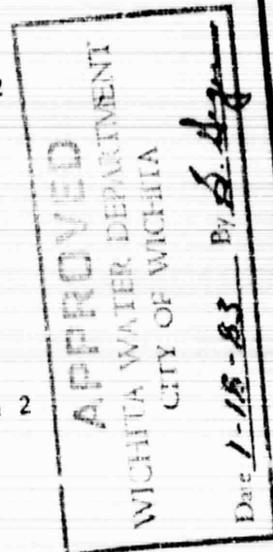
SECTION 6, PAGES 5 & 6
SECTION 9, PAGES 1 & 5

12" MJB OUTLET
SADDLE = 3/16" t X 30" WIDE
OUTLET NECK = 1/4" X 14" O.D.

SECTION 6, PAGES 5 & 6
SECTION 9, PAGES 3 & 4

16" FLANGE OUTLET
t = 3/16" t X 42" WIDE
OUTLET NECK - 1/4" X 18" O.D.

SECTION 6, PAGES 5 & 6
SECTION 9, PAGES 1 & 5



COMPILED T. R. TULLIN CHECKED R. ADAMS

APPROVED

D. F. G.

DATE

1/11/83



SPECIFICATION

NO. KC-83-4-3

FOR SPECIAL FITTINGS FOR LOCK JOINT PIPE W/RUBBER & STEEL JOINTS SP-5

WATER MAIN CONSTRUCTION: ON DOUGLAS AND MAPLE AVENUE

WICHITA, KANSAS

WATER DEPARTMENT, WATER ENGINEERING DIVISION, WICHITA, KANSAS

SEE DRAWING GHA LOCK JOINT ENGINEERING MANUAL OR AS NOTED

24" SP-5 (CONTINUED)

TEE: (TYPE II)

24" LJ X 24" LJ X 24" LJ
CYLINDER = 1/4" X 54" WIDE
SADDLE * 1/4" X 42" WIDE
STRUCTURAL SECTION: ST3 X 6.25
BRANCH NECK = 1/2" X 27" O.D.

SECTION 7, PAGES 3 & 4

HARNESSED JOINTS:

HEAVY CYLINDER

SECTION 10, PAGE 5

CYINDER	A _s (in ² /ft)	WRAPS/FT	WIRE/CLASS	NO. OF BOLTS
0.0996	0.261	9.03	6 III	24
0.0710	0.242	8.35	6 III	24

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 1-18-83 By *[Signature]*

36" SP-5

REDUCERS: (TYPE "B") CONCENTRIC

36" LJ X 24" LJ
CYLINDER "t" = 1/4"

SECTION 5, PAGE 1

~~20" SP-5~~

MISCELLANEOUS:

20" MJS X 20" MJS SPOOL PIECE
3/8" t X 21-5/8" O.D.

DWG. S-4-2948

No

This piece is to be Ductile Iron with Cement lining and a bituminous seal coat.

[Signature]

BELL BOLT SPIGOT
(24 BOLTS)

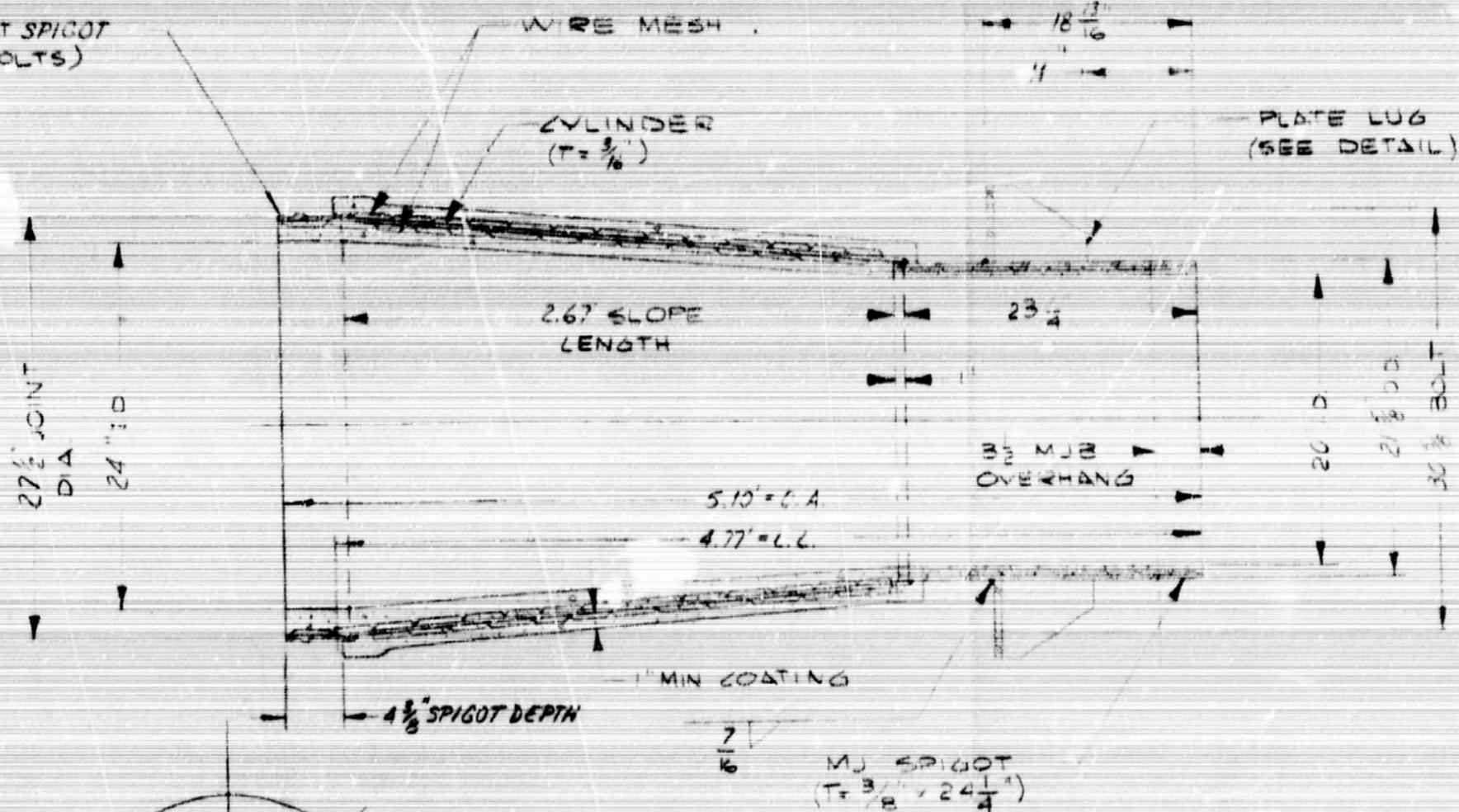


PLATE LUG
(SEE DETAIL)

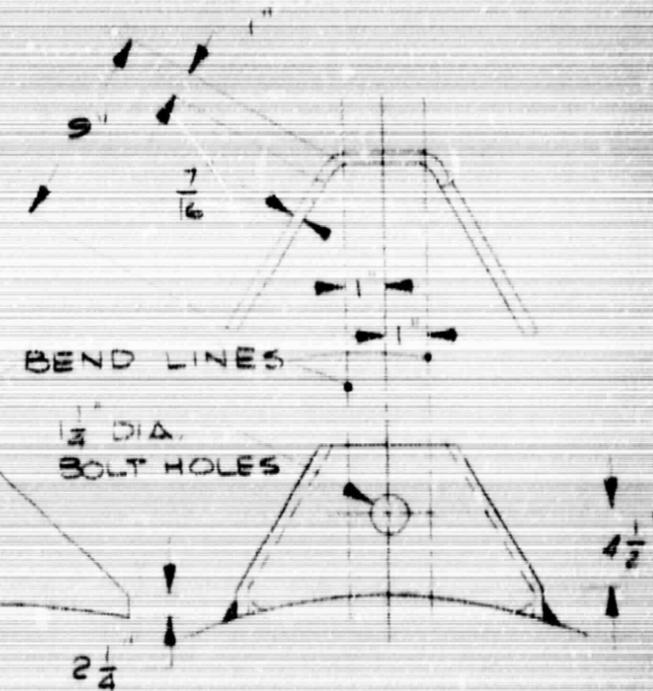


PLATE LUG DETAIL

NOTE: ALL EXPOSED STEEL TO BE SHOP COATED
W/ ONE COAT KOPERS SUPERSERVICE
BLACK OR EQUIVALENT.

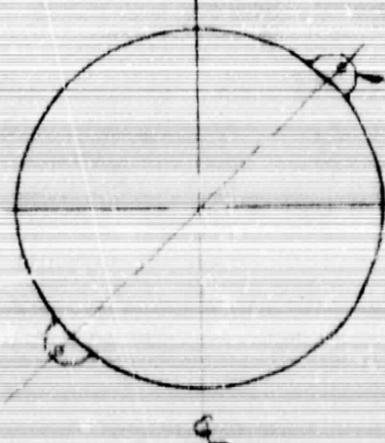


PLATE LUG
45° OFF SPRINGLINE

APPROVED
WICHITA WATER DEPARTMENT
CITY OF WICHITA
Date 1-18-83 By S. Heggen

58-82-40 / KC-83-4

TYPE B CONCENTRIC REDUCER
24" SP-S BELL BOLT SPIGOT X
20" LUGGED MECHANICAL JT
SPIGOT

SCALE: $\frac{1}{4}'' = 1'-0''$

DR. <u>TR</u>	<u>1/6/83</u>	APP. <u>DM</u>	<u>1-6-83</u>
CH. <u>TRT</u>	<u>1/6/83</u>	APP. <u>DAE</u>	<u>1/7/83</u>

DRAWING NUMBER
5-5-1314

ORIENTATION

REV.	DESCRIPTION

NEXT ASSEMBLY QTY. CH. TRT

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-9-83 By S. Elger

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam SHEET: 13

PIECE NUMBER	REV	QUAN	DESCRIPTION		AVG LL	HOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
24" SP-5 (CONTINUED)											
E-20		1	11°-52' ELBOW (TYPE "B") RIGHT ROTATED CCW FOR A 11°-15' HORIZ. DEFL. RIGHT AND A 3°-48' VERT. DEFL. UP W/BELL BOLT JT (24 BOLTS/JT)	S	0.34	0.34	94+38.42			0.00	
				B	0.70	0.70	94+38.76	+3°-48'	+0.0666		114.50
S-6		1	STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)		15.95	15.91	94+39.46 BK 94+38.08 AH				
S-4		4	STRAIGHTS		64.08	63.94	94+53.99			+5.36	
H-2		1	HALF BEVEL DOWN OPEN JT 1/2" ON LONG SIDE		15.98	15.98	95+17.93	+0°-45'	+0.0131	+0.21	119.86
S-4		1	STRAIGHT OPEN JT 1/4" ON TOP		16.02	16.02	95+33.91	+0°-17'	+0.0050		120.07
S-4		4	STRAIGHTS		64.08	64.07	95+49.93			+0.40	
S-6		1	STRAIGHT OPEN JT 1/8" ON BOTTOM		16.02	16.02	96+14.00	0°-34'	+0.0099	+0.16	120.47
S-4		1	STRAIGHT OPEN JT 1/16" ON BOTTOM		16.02	16.02	96+30.02	0°-44'	+0.01278		120.63
S-4		2	STRAIGHTS		32.04	32.04	96+46.04				
S-18		1	STRAIGHT W/6" FLG (150#) OTL LEFT C/L 4.10' FFB		16.02	16.02	96+78.08				
S-4		12	STRAIGHTS		192.24	192.22	96+94.10 98+86.32				

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD.
 THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE &
 FITTINGS ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

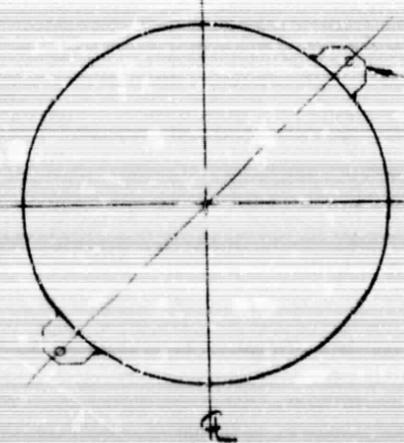
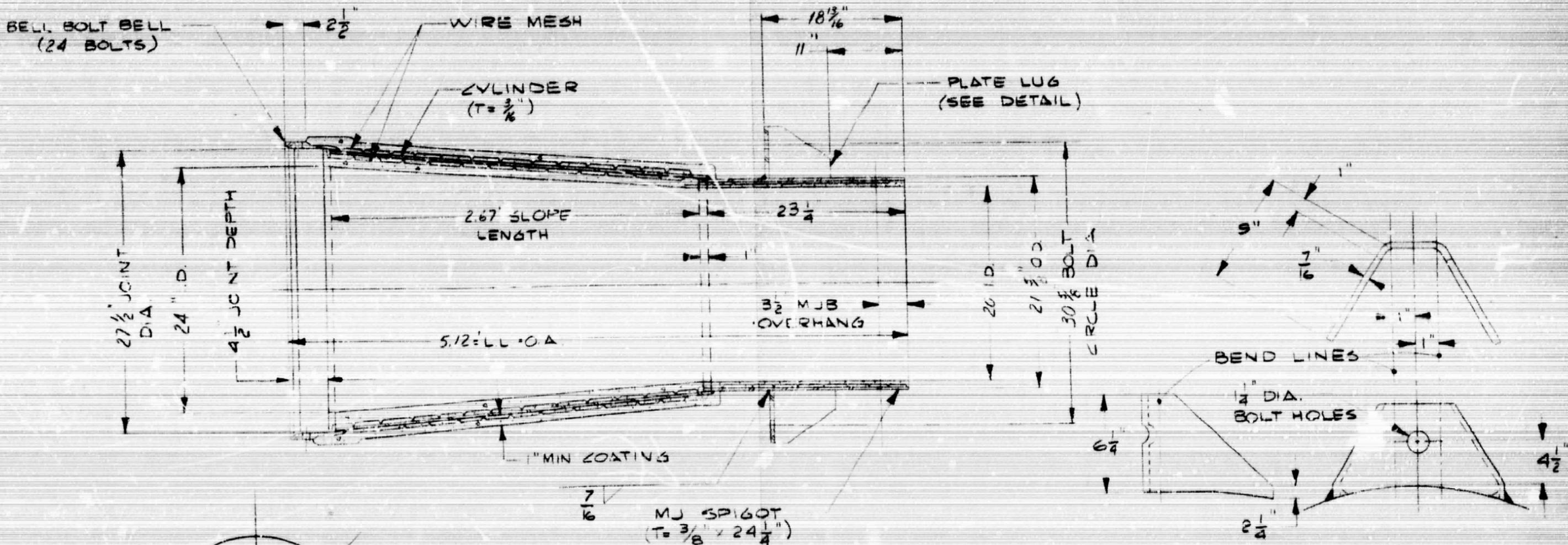


PLATE LUG
45° OFF SPRINGLINE

APPROVED
WICHITA WATER DEPARTMENT
CITY OF WICHITA
Date 1-18-83 By S. [Signature]

NOTE: ALL EXPOSED STEEL TO BE SHOP COATED
W/ ONE COAT KOPPERS SUPERSERVICE
BLACK OR EQUIVALENT.

SB-82-40 / KC-03-4

TYPE B CONCENTRIC REDUCER
24" SP-5 BELL B. BELL x
20" LUGGED MECHANICAL JT
SPIGOT



REV.	DESCRIPTION	NEXT ASSEMBLY QTY.	CH.	DR.	DATE	APP.	DATE	DRAWING NUMBER	REV.
				DR. <u>AK</u>	<u>1/5/83</u>	APP. <u>[Signature]</u>	<u>1/6/83</u>	S-8-1316	
				CH. <u>TRT</u>	<u>1-6-83</u>	APP. <u>DAE</u>	<u>1/7/83</u>		

BELL BOLT SPIGOT
(24 BOLTS)

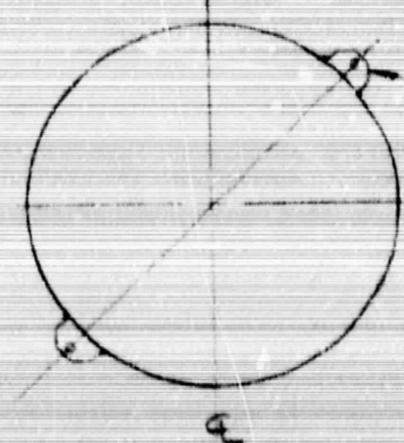
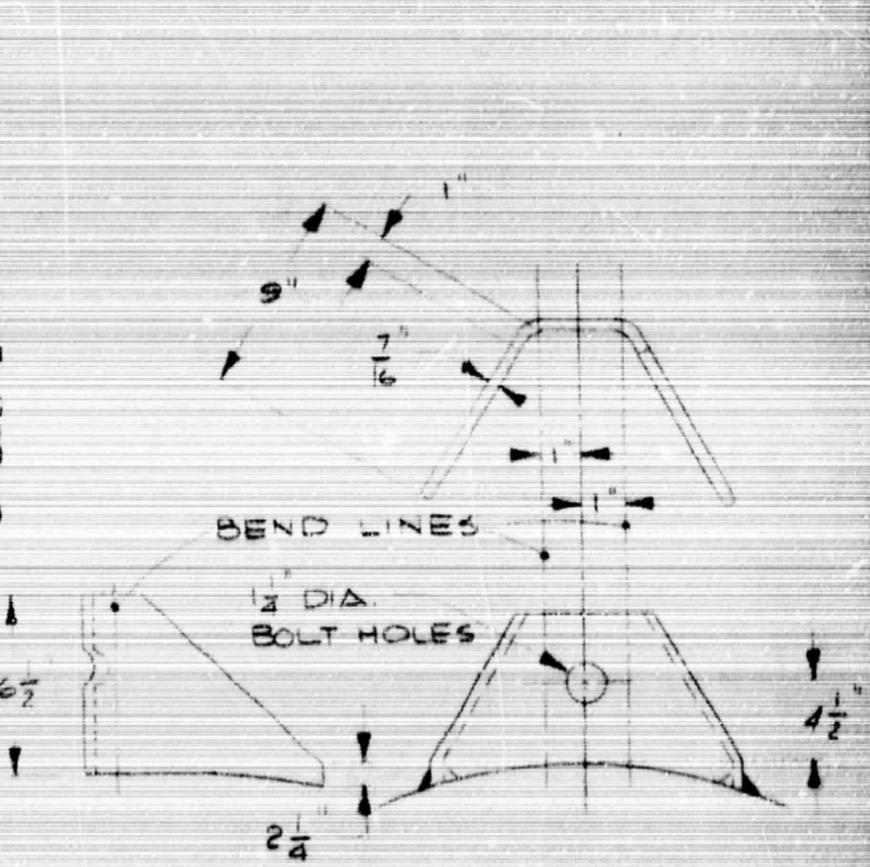
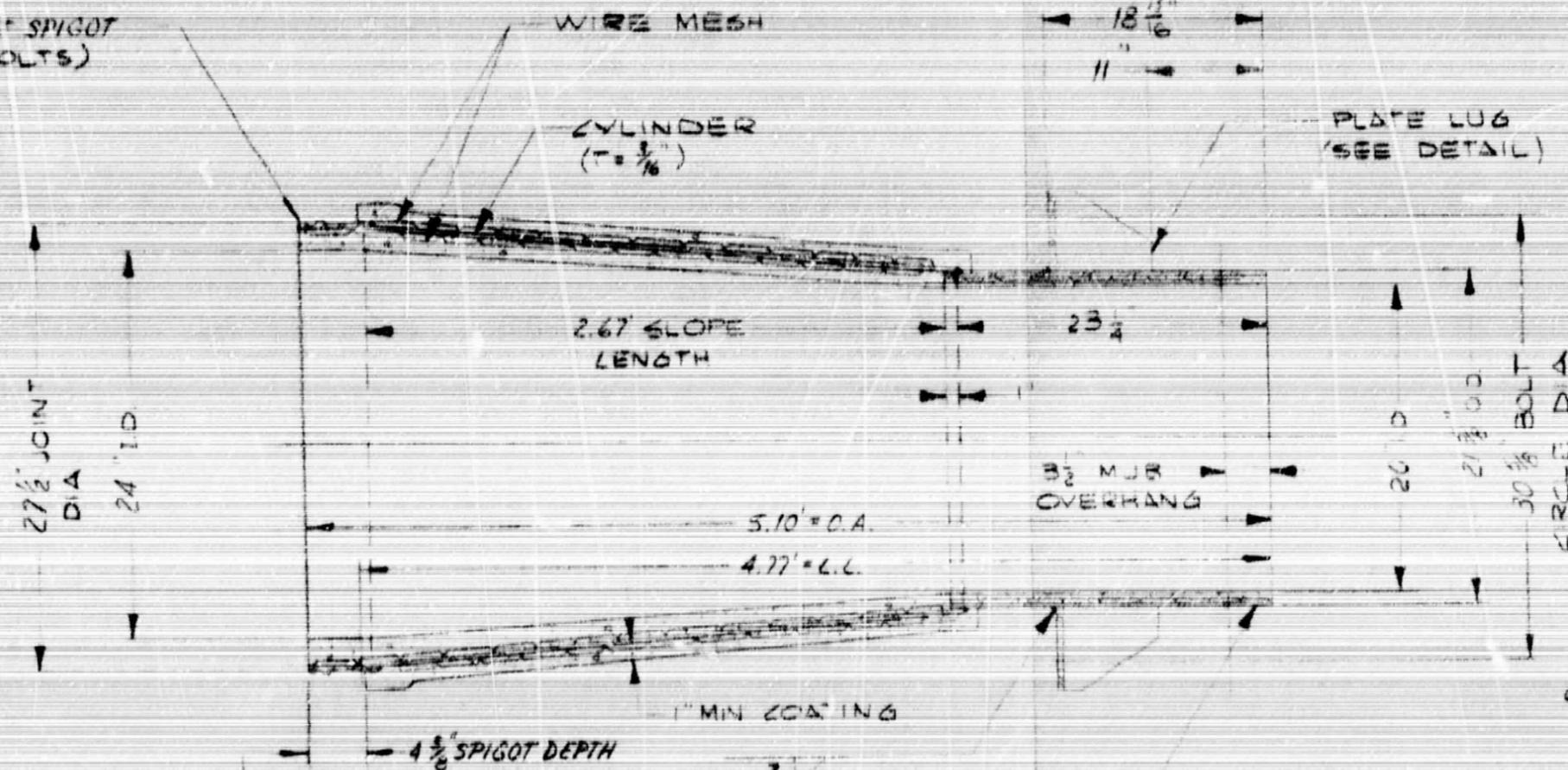


PLATE LUG
45° OFF SPRINGLINE

APPROVED
WICHITA WATER DEPARTMENT
CITY OF WICHITA
Date 1-18-83 By S. Hagan

NOTE: ALL EXPOSED STEEL TO BE SHOP COATED
W/ ONE COAT KOPPERS SUPERSERVICE
BLACK OR EQUIVALENT.

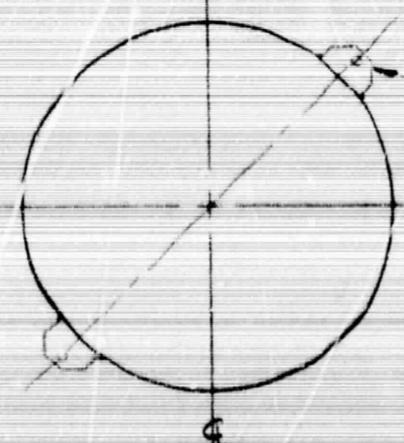
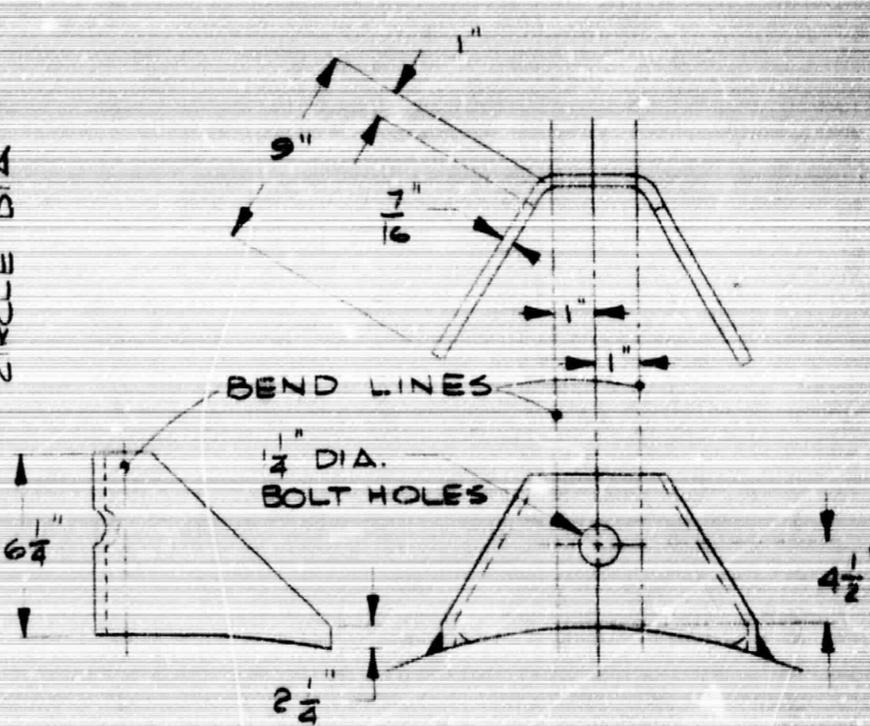
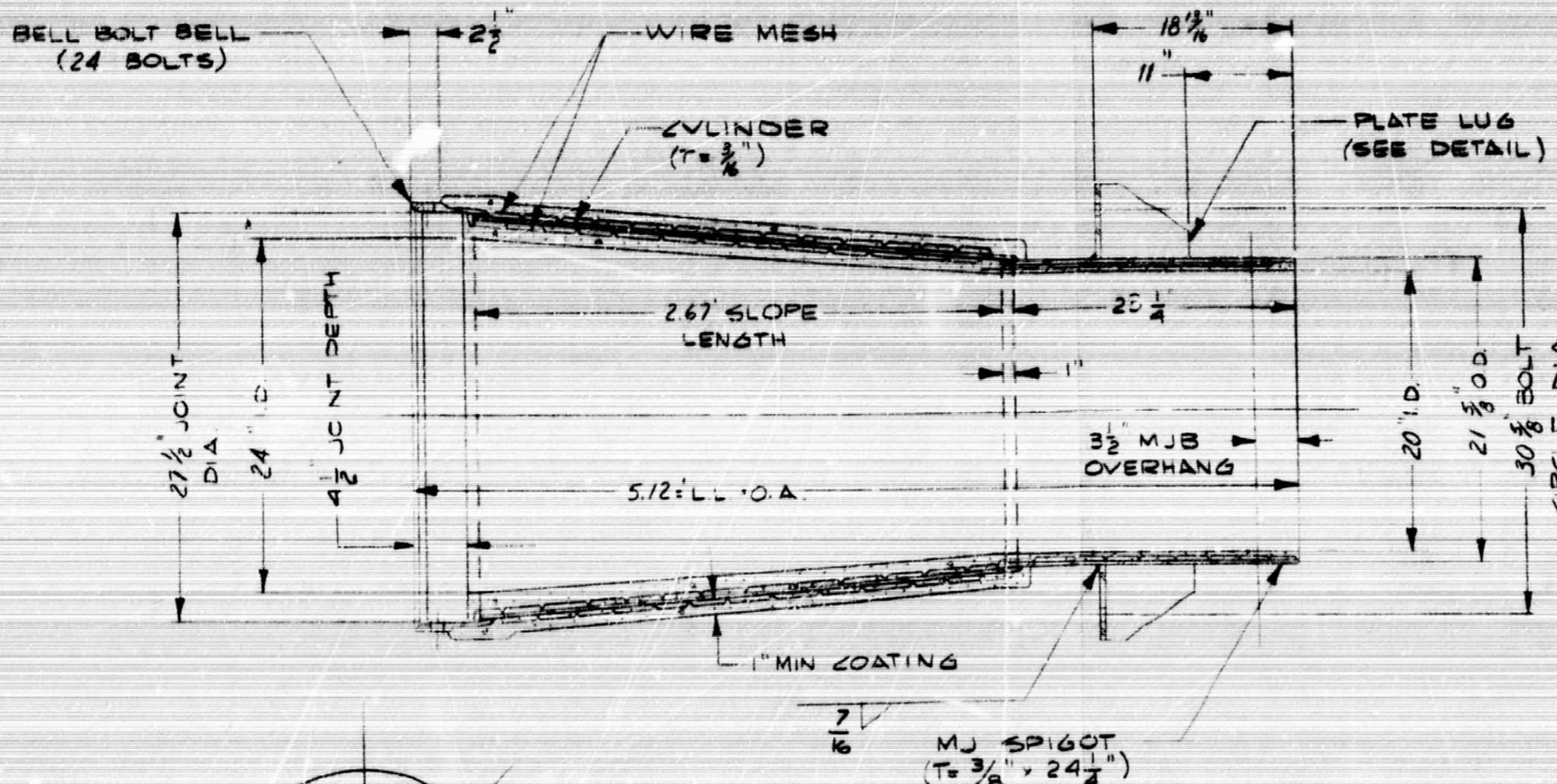
58-82-40

TYPE B CONCENTRIC REDUCER
24" SP-S BELL BOLT SPIGOT X
20" LUGGED MECHANICAL JT
SPIGOT

ORIENTATION

SCALE:				
DR. <u>JJK</u>	<u>1/6/83</u>	APP. <u>D/W</u>	<u>1-6-83</u>	
NEXT ASSEMBLY CTR. CH. <u>TRT</u>	<u>1/6/83</u>	APP. <u>D/E</u>	<u>1/7/83</u>	



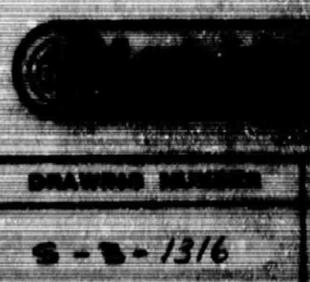


APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 1-18-85 By G. [Signature]

NOTE: ALL EXPOSED STEEL TO BE SHOP COATED
 W/ ONE COAT KOPPERS SUPERSERVICE
 BLACK OR EQUIVALENT.

58-82-40
 TYPE B CONCENTRIC REDUCER
 24" SP-B BELL BOLT BELL x
 20" LUGGED MECHANICAL JT
 SPIGOT

REV.	DESCRIPTION	NEXT ASSEMBLY	BY	CHK	DATE	APP.	DATE	DRAWING NUMBER



- Sta. 89+98
- 1-6" Fl. Side Outlet
- 1-6" Fl. x M.J. Gate Valve
- 1-6" Valve Box
- 1-6" CI Offset w/ 24" Drop, M.J. PE
- 6-6" CI CL SJ Pipe
- 1- Fire Hydrant

- Sta. 84+04
- 1-6" Fl. Side Outlet
- 1-6" Fl. x M.J. Gate Valve
- 1-6" Valve Box
- 1-6" CI Offset w/ 24" Drop, M.J. PE
- 6-6" CI CL SJ Pipe
- 1- Fire Hydrant

- Sta. 94+37.38
- 1-24" L.J. 11" IS Elbow w/ Bell Bolt Joint
- Equation: Sta. 94+38.76 Back + Sta. 94+37.38 Ahead
- Sta. 96+90
- 1-6" Fl. Side Outlet
- 1-6" Fl. x M.J. Gate Valve
- 1-6" Valve Box
- 1-6" M.J. Anchor Coupling
- 1- Fire Hydrant

- Sta. 100+70
- 1-24" L.J. 90° Elbow w/ Bell Bolt Joint
- Equation: Sta. 101+08 Back + Sta. 100+70 Ahead
- 1" Gas Main
- Air Release Assembly Furnished & Set by Water Dept.
- R/W = 40'

- Sta. 100+70
- 1-24" L.J. 90° Elbow w/ Bell Bolt Joint
- Sta. 100+75
- 1" Mueller Thread Outlet
- Sta. 101+23
- Connect to existing 20" AC Water Main at a point approx. 1' East and 25' North of S.W. Property Corner of Maple & Relativ Rd. with 24" L.J. Spigot x 20" M.J. Bell Reducer.

NOTE:
If trimming of Hedge Trees, between Sta. 94+40 and Sta. 101+00, is required to facilitate the installation of the Water Main, it will be considered incidental to the project and will not be paid for separately.

Scale
HORIZ. 1" = 40'
VERT. 1" = 5'

Scale
HORIZ. 1" = 40'
VERT. 1" = 5'

PLAN
NOTE BOOK
No. _____

PROFILE
NOTE BOOK
No. _____

CITY OF WICHITA

WATER DEPARTMENT

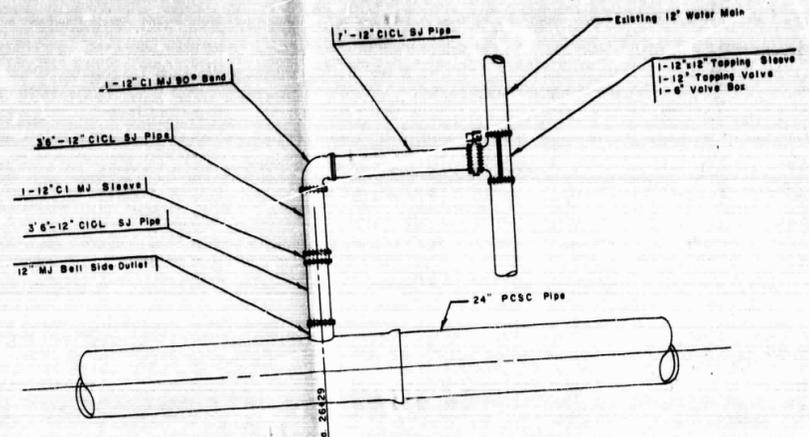
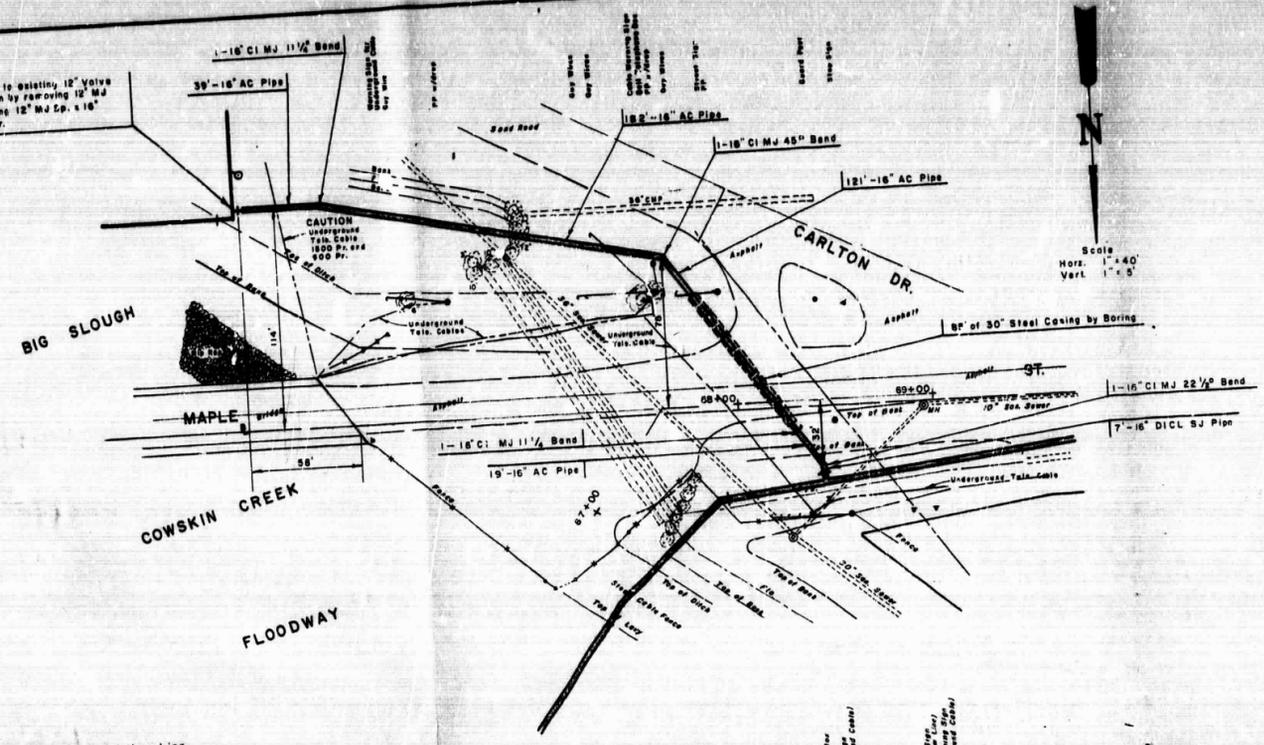
595 80 925 81194 000 007 816 K&E WATER ENGINEERING DIVISION

1982

Sheet 5

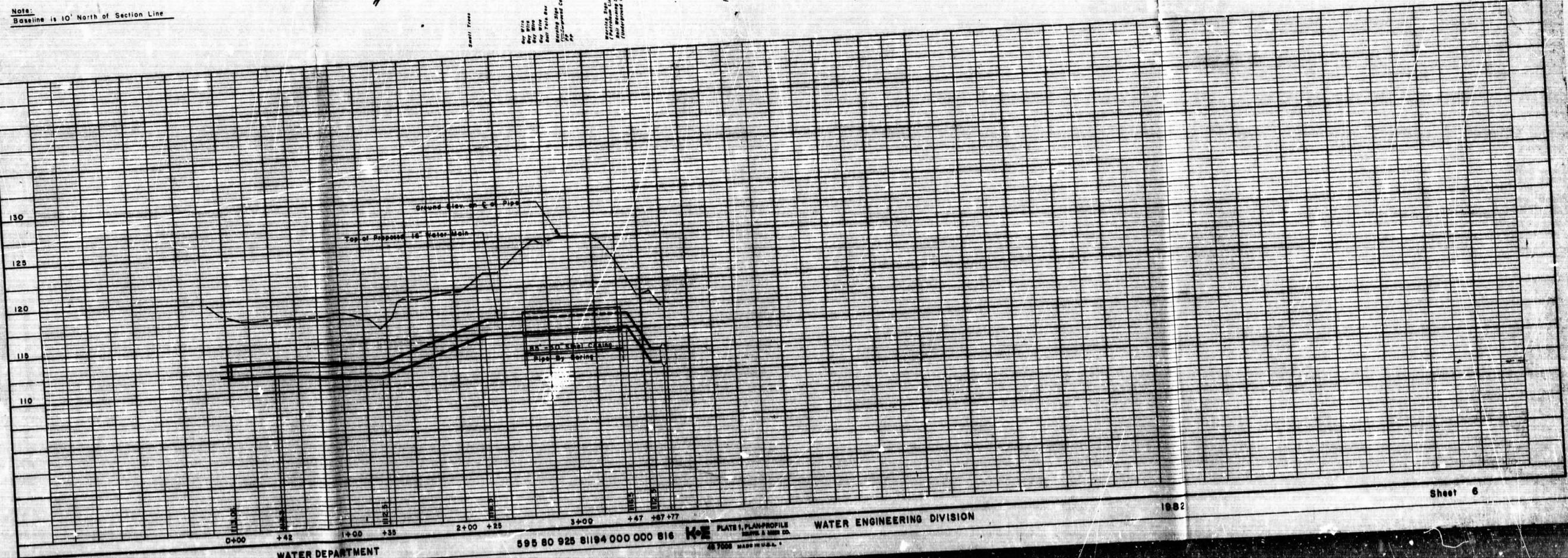
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Make Connection to existing 12" Valve Outlet on 16" Main by removing 12" MJ Plug and installing 12" MJ Sp. & 16" MJ Bell Reducer.



CROSS CONNECTION DETAIL
 Sta. 26+29 DOUGLAS at ANNA
 No Scale

Note:
 Baseline is 10' North of Section Line



PLAN	DATE	BY
NOTE BOOK		
NO.		

PROFILE	DATE	BY
NOTE BOOK		
NO.		

CITY OF WICHITA

WATER DEPARTMENT

595 80 925 81194 000 000 816 K&E PLATE 1, PLAN-PROFILE
 487008 MADE IN U.S.A.

WATER ENGINEERING DIVISION

1982

Sheet 6

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PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83--4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-9-83 By E. Egan

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam SHEET 12

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	HOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
<u>24" SP-5 (CONTINUED)</u>										
S-4		4	STRAIGHTS	64.08	64.08	89+18.90				
S-17		1	STRAIGHT W/6" FLG (150#) OTL LEFT C/L 3.00' FFB	16.02	16.02	89+82.98			+1.00	
S-4		1	STRAIGHT OPEN JT 1/4" ON LEFT AND ROTATE CW FOR A 0°-32' HORIZ. DEFL RIGHT AND A 0°-01' VERT. DEFL. DOWN	16.02	16.02	89+99.00	0°-00'	0.0000		114.50
S-4		1	STRAIGHT OPEN JT 1/16" ON LEFT	16.02	16.02	90+15.02				
S-4		20	STRAIGHTS	320.40	320.40	90+31.04				
SH-19		1	SHORT (15.48' OA) W/BELL BOLT BELL (24 BOLTS)	15.23	15.23	93+51.44				
E-19		1	11°-15' ELBOW (TYPE "B") LEFT W/BELL BOLT JT (24 BOLTS/JT)	0.33	0.33	93+66.67			0.00	
				0.68	0.68	93+67.00	0°-00'	0.0000		114.50
S-6		1	STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)	15.95	15.95	93+67.68				
S-4		3	STRAIGHTS	48.06	48.06	93+83.63				
SH-20		1	SHORT (6.98' OA) W/BELL BOLT BELL (24 BOLTS)	6.73	6.73	94+31.69				
						94+38.42				

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD. THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE & FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED.

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date: 2-9-83 By: [Signature]

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam

SHEET: 14

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	MDR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
SH-21		1	24" SP-5 (CONTINUED) SHORT (5.84' OA)							
S-7		1	STRAIGHT W/BELL BOLT BELL (24 BOLTS)	5.59	5.59	98+86.32				
S-10		5	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	16.02	16.02	98+91.91				
S-13		2	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT) W/O.0710" CYLINDER (CODE: RED)	79.75	79.74	99+07.93				
S-12		3	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT) W/O.0996" CYLINDER (CODE: YELLOW)	31.90	31.90	99+87.67				
E-21		1	90° ELBOW (TYPE "B") LEFT ROTATED CCW FOR A 90° HORIZ. DEFL. LEFT AND A 0°-44' VERT. DEFL. DOWN	47.85	47.85	100+1.57				
S-12		2	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT) W/O.0996" CYLINDER (CODE: YELLOW)	2.58	2.58	100+67.42	S			
E-22		1	90° ELBOW (TYPE "B") RIGHT W/BELL BOLT JT (24 BOLTS/JT) W/O.59' EXT ON SPIGOT END	2.93	2.93	100+70.00 PI	B		+5.62	126.25
S-19		1	STRAIGHT W/BELL BOLT JT (24 BOLTS/JT) W/1" MUE TH'D OYL TOP C/L 13.88' FFB W/O.0996" CYLINDER (CODE: YELLOW)	31.90	31.90	100+72.93				
				3.17	3.17	100+04.83	S			
				2.93	2.93	101+08.00 PI	B		0.00	126.25
				15.95	15.95	101+10.93 BK 100+72.93 AH				
						100+88.88				

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
 THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE &
 FITTINGS ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE & RETAINED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

Lock Joint Products Division



REV. A

DATE 1/28/83

BY TRT/lam

SHEET: 5

PIECE NUMBER REV QUAN

DESCRIPTION

AVG LL

HOR LL

STATION

ANGLE

TANGENT

ELEV CHANGE

T.O.P. ELEV

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	HOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
			24" SP-5 (CONTINUED)			100+88.88				
S-12	A	1	STRAIGHT W/BELL BOLT JT (24 BOLTS/JT) W/0.0996" CYLINDER (CODE: YELLOW)	15.95	15.95	101+04.83				
SH-22	A	1	SHORT (14.68' OA) W/BELL BOLT JT (24 BOLTS/JT) W/0.0710" CYLINDER (CODE: RED)	14.36	14.36	101+19.19				
R-5	A	1	24" BBS X 20" MJB CONCENTRIC REDUCER (TYPE "B") (3.42' OA) W/1.00' EXT.	3.81	3.81	101+23.00				

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 3-17-83 By [Signature]

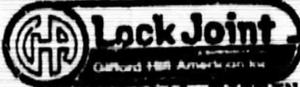
NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
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 FITTINGS ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

REV	DATE	BY	DESCRIPTION
A	3/4/83	TRT	Per Engineers Request

SPECIFICATION

NO. SB-82-40-2



FOR SPECIAL FITTINGS FOR LOCK JOINT PIPE W/RUBBER & STEEL JOINT

WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVENUE

KANSAS CITY, MISSOURI

WATER DEPARTMENT, WATER ENGINEERING DIVISION, WICHITA, KANSAS

SEE DRAWING GHA LOCK JOINT ENGINEERING MANUAL OR AS NOTED

BEVEL ADAPTERS:

SADDLE (1/4")

SECTION 2, PAGE 3

ELBOWS: (TYPE "B")

LJ X LJ
CYLINDER t = 1/4"

SECTION 3, PAGES 1 & 3

REDUCERS:

24" LJ X 20" MJS
CYLINDER t = 3/16"
MJS END
3/8" "t" X 21-5/8" O.D.

DWG. S-3-1314

OUTLETS:

1" MUELLER THREADED OUTLET
SADDLE = 3/16" X 6" WIDE

SECTION 6, PAGES 1 & 2

HARNESSED JOINTS:

HEAVY CYLINDERS

SECTION 10, PAGE 5

CYLINDER	$\frac{A}{S}$	WRAPS/FT	WIRE/CLASS	NO. OF BOLTS
0.0568	0.232	8.00	6 III	24

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 12-21-82 By S. [Signature]

SUPPLEMENTAL
WICHITA WATER DEPARTMENT
CONTRACTOR'S INSTALLATION REPORT

W.O. No. 595-80-925-21194-000-000-816 _____ of _____

Description Valve, Tee & Blow-off at Glen Seawine Road on Northside of Douglas

ID. No.	Loc.	Description
	3	24" Tee in 6' N NCL of Douglas + 9' E E L of drive at 5504 Douglas or 48' E E PL of Hoover
CS	3	Reducer in 41' E E P. of Hoover + 19' S N PL of Douglas
21091	5	16" Butterfly in 98' E E PL of Hoover 19' S of N PL of Douglas
21090	2	Blow-off in 15' E + 19' S of N E P. C of Douglas + Hoover on 9' W W edge of drive + 5' N NCL of Douglas
CS		Blow-off valve.

NEW WATER DEPARTMENT SYSTEM MATERIAL

Quantity	Size	Type	Description
25'	16"	A.C	pipe
1	24"	L.f.	24" L.f. Spigot X 24" L.f. B X
1	16"	M.J	16" Kennedy Butterfly Valve
1	24"	L.f.	24" L.f. Spigot X 16" M.J Reducer
1	16"		16" Cap & 2" Jones
1	6"		Valve Box Complete

SUPPLEMENTAL
WICHITA WATER DEPARTMENT
CONTRACTOR'S INSTALLATION REPORT

W.O. No. 585-90-225-21124-000-000-p.6

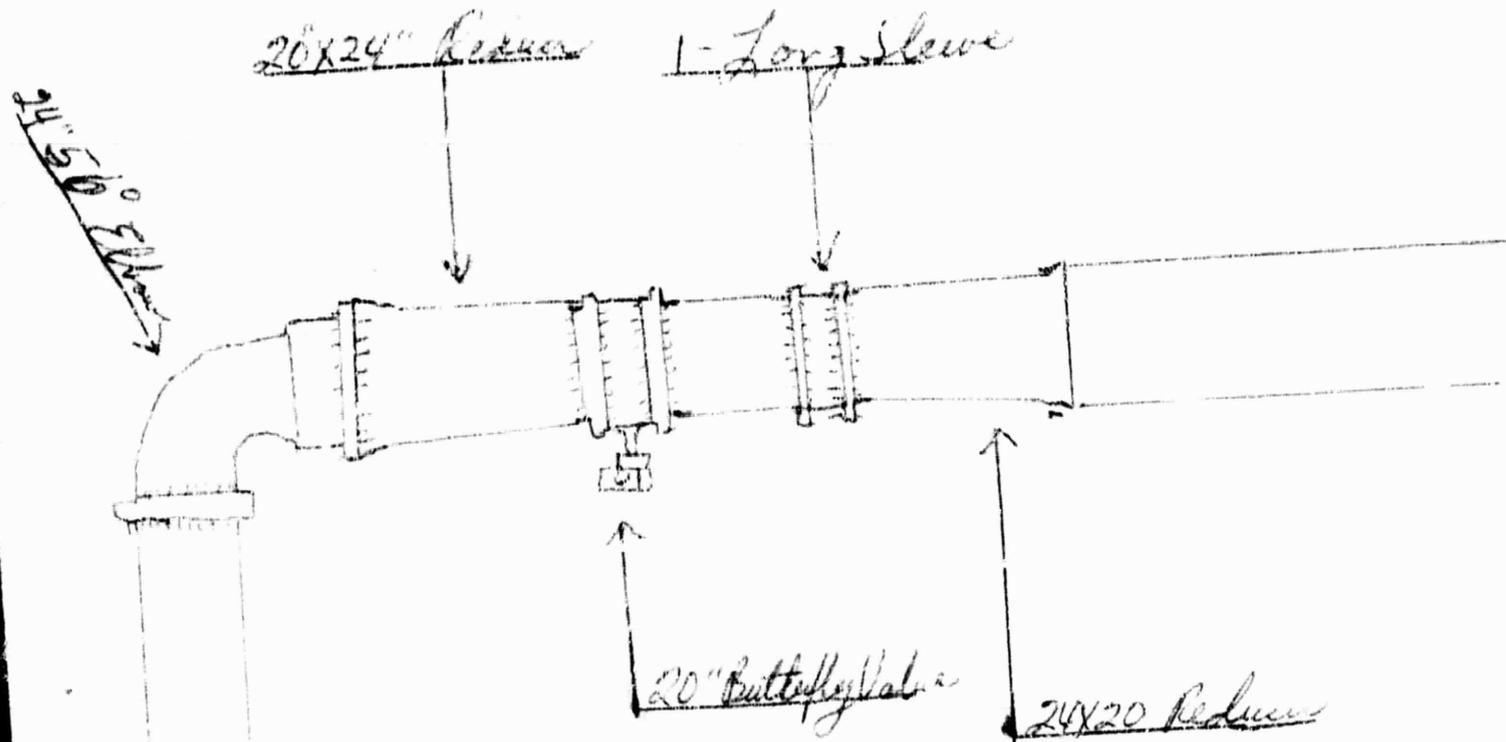
_____ of _____

Description From North side of Douglas to east side of Hwy 235 beginning of line.

ID No.	Loc.	Description
	1	Main in 6" N.V. Ch of Douglas + 48' EE P.L. of Hoover runs south then swings west to go under Hwy.
	3	56" Elbow in 40' S of S.C. of Douglas + 14' W of S.L. of Flora Service Road.
21092 CS	5	Kennedy Butterfly Valve in 20" in 21' South + 74' W of S.E.P.C. of Douglas + Flora
	3	Reducer 20" S + 72' W of S.E.P.C. of Douglas + Flora (east reducer)
	3	Reducer in 23' W + 89' W of S.E.P.C. of Douglas + Flora (west reducer)

NEW WATER DEPARTMENT SYSTEM MATERIAL

Quantity	Size	Type	Description
78'	24"	L.J.	pipe
1	24"	L.J.	24" L.J. 56" Elbow w Bell Bolt joint
1	20"	M.J.	Kennedy Butterfly Valve.
1	20x24		Reducer 20 M.J. Spigot X 24" P.C.S.C. pipe Spigot
1	20x24		Reducer 24" P.C.S.C. pipe Bell X 20" M.J. Spigot
9 1/2'	20"	C.I.C.L.	pipe
1	20"	C.I.C.L.	Sleeve Long (20" Sleeve with 20" Spigot)

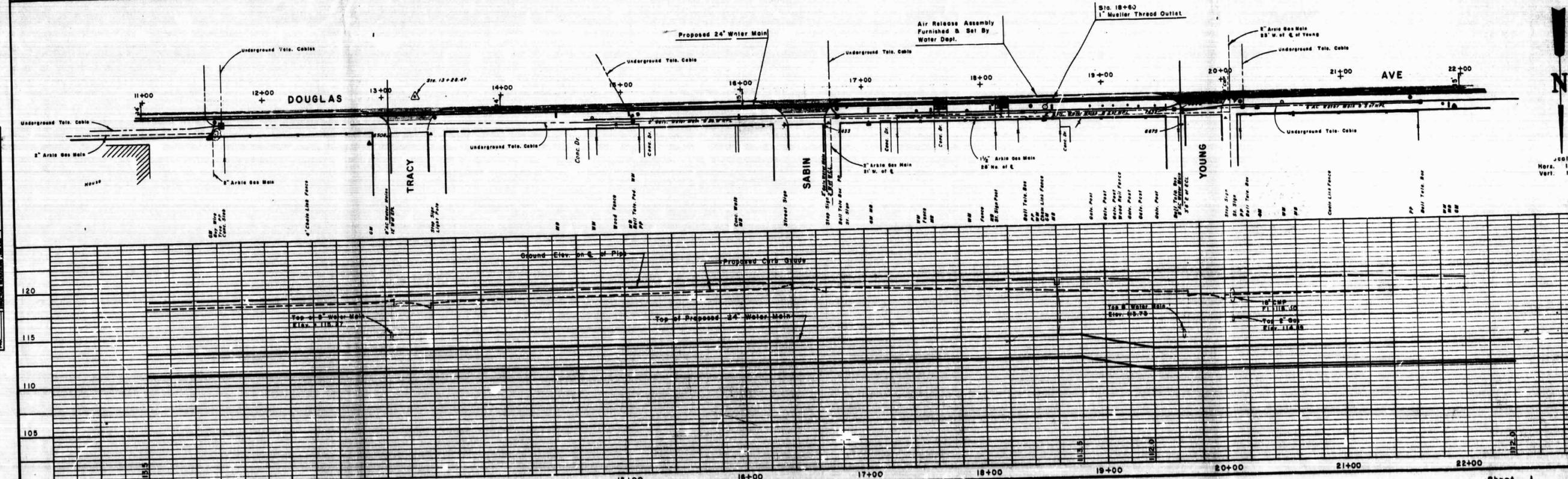
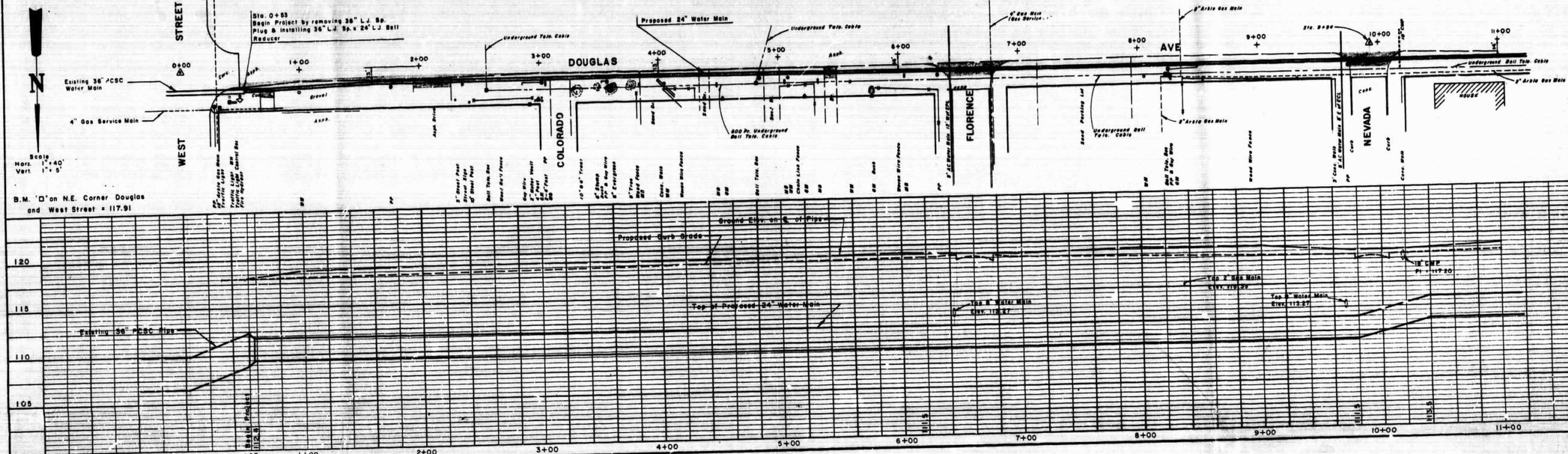


← 78' 24" Lock joint across Douglas at Hara Road.

From North side of Douglas to east side of Hwy #235

NOTE: Baseline is on Section Line on Douglas Ave
Sta. 0+00 = Centerline West Street

NOTE: There are 2 Valves, on the east side of West Street, that need to be Closed in order to begin this project!
#19782 36-inch Butterfly Valve 46'E. and 27' of NEPC Douglas and West St.
19068 12-inch Topping Valve 18 1/2' So. and 1' E. of NECL Douglas and West St.

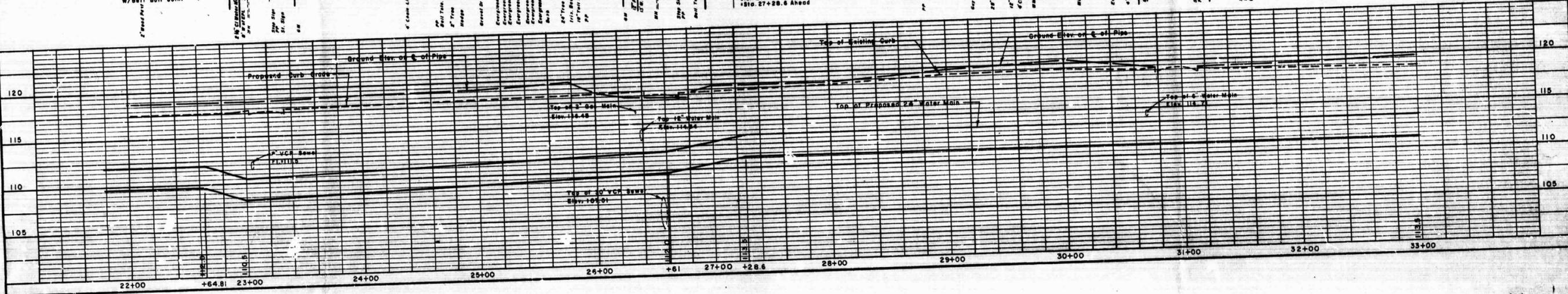
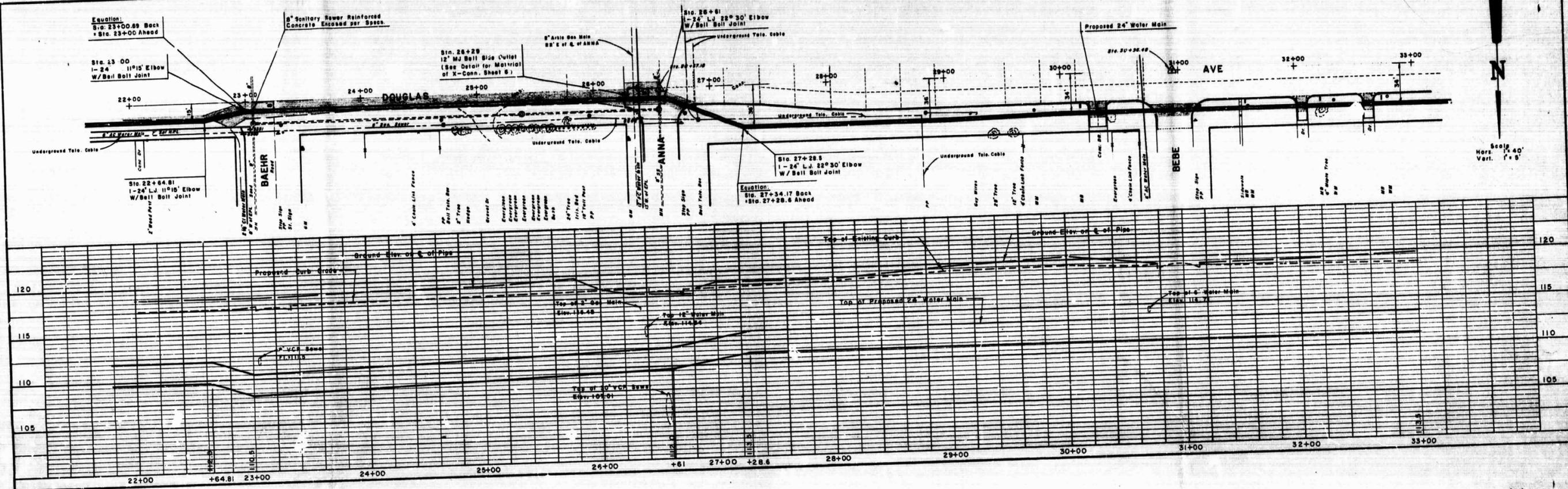


PLAN
NOTES
DATE
BY
CHKD
APP'D

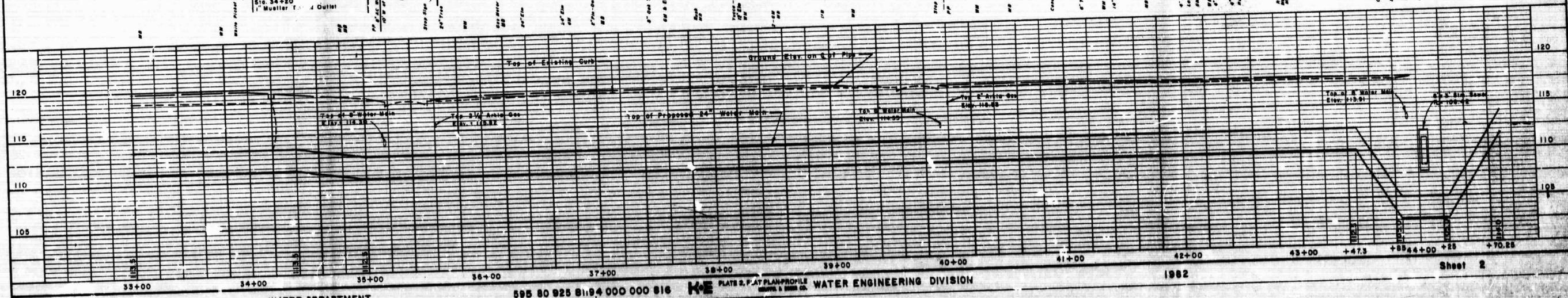
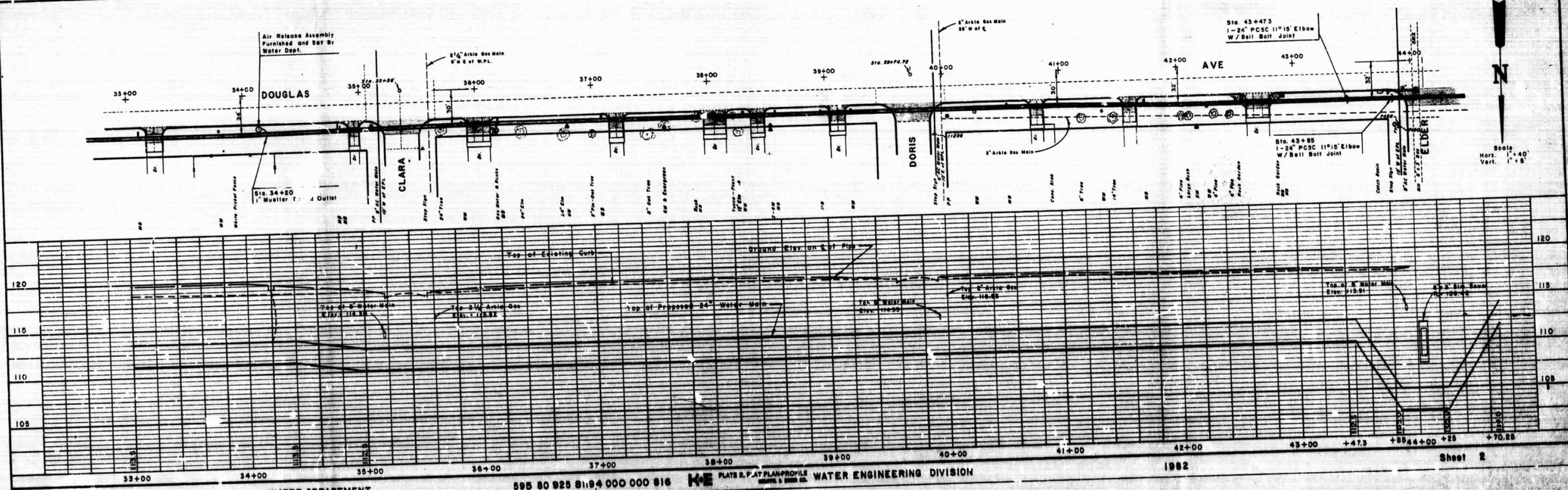
PROFILE
NOTES
DATE
BY
CHKD
APP'D

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PLANS
NOTE BOOK
NO. _____



PLANS
NOTE BOOK
NO. _____



CITY OF WICHITA

WATER DEPARTMENT

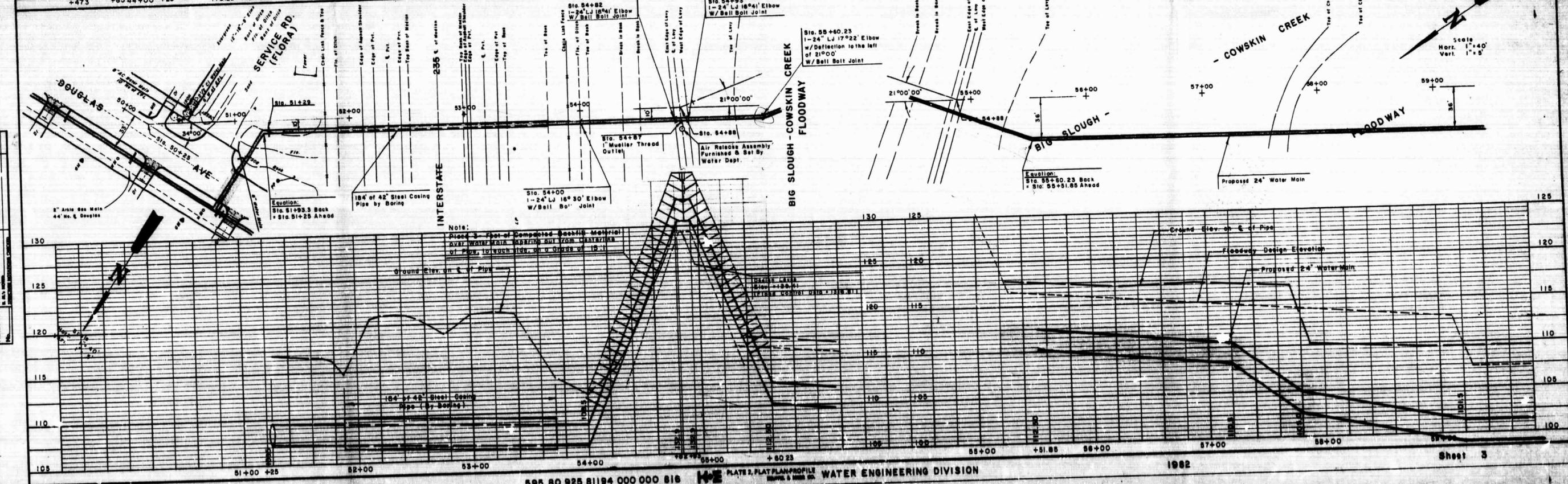
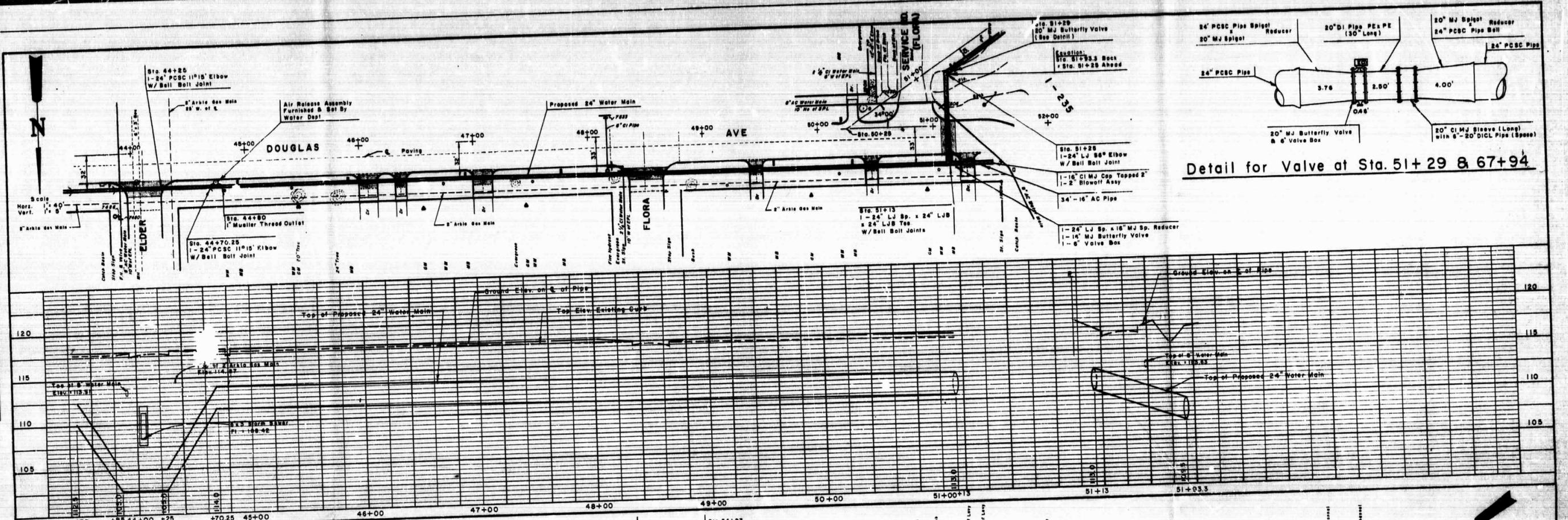
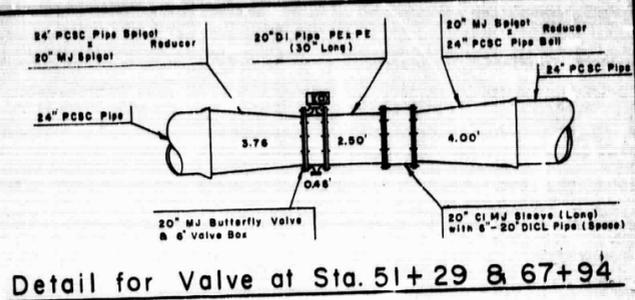
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1982

Sheet 2

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

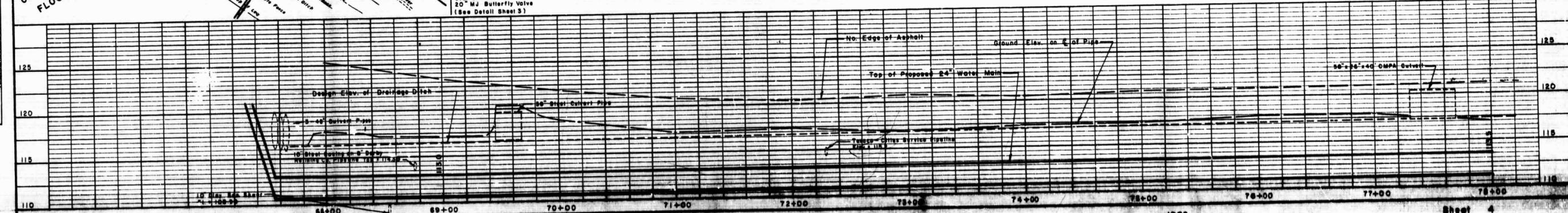
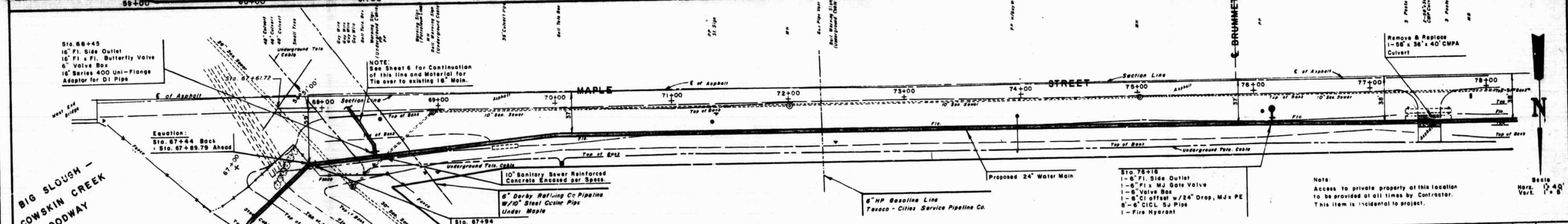
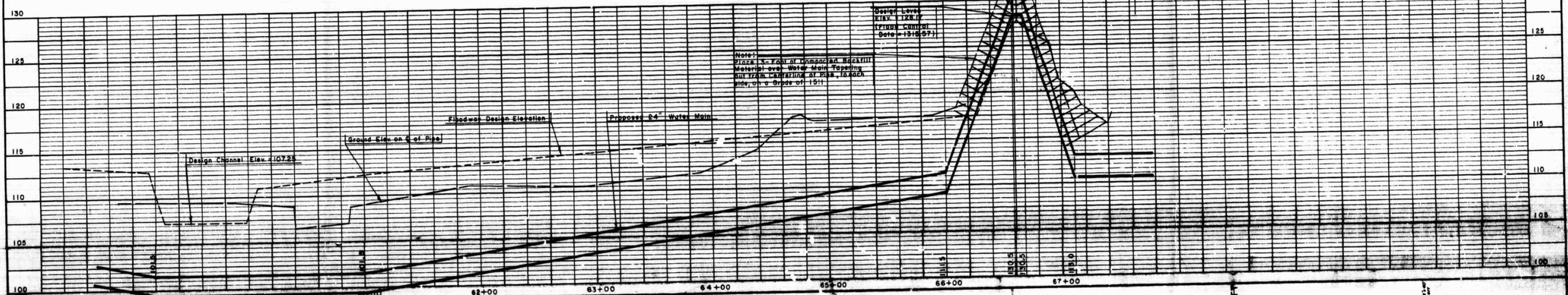
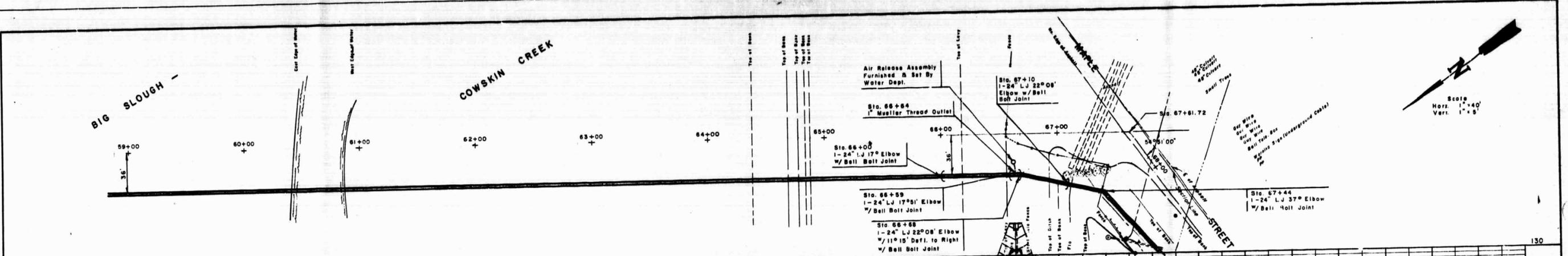


PROFILE
 SCALE: 1" = 40'
 VERT. SCALE: 1" = 5'

CITY OF WICHITA WATER DEPARTMENT 595 80 925 81194 000 000 818 WATER ENGINEERING DIVISION 1982 Sheet 3

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PLAN	NO.
SECTION	NO.
PROFILE	NO.
NOTE BOOK	NO.
DATE	



PLAN	NO.
SECTION	NO.
PROFILE	NO.
NOTE BOOK	NO.
DATE	

CITY OF WICHITA

WATER DEPARTMENT

595 80 925 81194 000 000 816

PLATE 2, PLAN & PROFILE WATER ENGINEERING DIVISION

1982

Sheet 4

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PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 SB-82-40

Lock Joint Products Division



DATE 12/20/82 BY TRT/lam

SHEET 01

REV. A
 REV. B

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	MON LL	STATION	ANGLE	TANGENT	ELEV CHANGE	TOP ELEV
	B		BEGIN LAYING AT THE REDUCER BEYOND STATION EQUATION 51+93.3 BACK, STATION 51+25 AHEAD AT STATION <u>51+26.76</u> 24" SP-5							109.49
R-1		1	24" BELL BOLT SPIGOT X 20" MJS CONCENTRIC REDUCER W/1.00' EXT ON AN MJS END W/2 LUGGING EARS 45° OFF SPRINGLINE (CONTRACTOR TO SUPPLY HARNESS TIE RODS AND ACCESSORIES (OA = 5.10')(24 BOLTS)	1.77	4.77	<u>51+26.76</u>				
	B									
SP-1	B	1	* BUTTERFLY VALVE SUPPLIED BY OTHERS (LL-0.43') (CONTRACTOR TO VERIFY) MJS X MJS SPOOL PIECE	0.36	0.36	<u>51+31.89</u>	-0°-12'	-0.0036		
	B									
			C.I. MJ SLEEVE (BY OTHERS)			<u>51+34.04</u>				
R-2		1	20" MJS X 24" BELL BOLT BELL CONCENTRIC REDUCER W/1.00' EXT ON MJS END W/2 LUGGING EARS 45° OFF SPRINGLINE (OA = 5.12') (24 BOLTS)	0.67	0.67	<u>51+34.71</u>				
S-2		1	STRAIGHT W/BELL BOLT JT (24 BOLTS/JT)	19.95	19.95	<u>51+39.83</u>				
S-3		1	STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)	19.95	19.95	<u>51+59.78</u>				
S-1		10	STRAIGHTS	200.30	200.30	<u>51+79.73</u>				
SH-1		1	SHORT (OA = <u>19.30'</u>) W/BELL BOLT BELL (24 BOLTS)	18.98	18.98	<u>53+80.03</u>				
E-1		1	16°-46' ELBOW UP (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT) W/0.54' EXT ON SPIGOT END	0.99	0.99	<u>53+99.01</u>				
						<u>54+00.00</u> PI			-0.0036	-0.98
						<u>54+00.77</u>	16°-34'	+0.2975		108.51

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-22-83 By [Signature]

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION
A	1/3/83	TRT/lam	PER SUB-CONTRACTOR, VERIFICATION OF L.L.
B	2/4/83	TRT/lam	ADJUSTMENT OF STATIONING

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
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 FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 SH-82-40

Lock Joint Products Division



DATE 12/20/82 BY TRT/lam

SHEET 02

PIECE NUMBER	REV	QUAN	DESCRIPTION		AVG LL	HOR I L	STATION	ANGLE	TANGENT	ELEV CHANGE	TOP ELEV
			24" SP-5 (CONTINUED)								
S-2		4	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)		79.80	76.49	54+00.77				
SH-2		1	SHORT (OA = 4.83') W/BELL BOLT JT (24 BOLTS/JT)		4.51	4.32	54+77.26				
E-2		1	16°-34' ELBOW DOWN (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT)	S	0.44	0.42	54+81.58				
				B	0.79	0.79	54+82.00 PI			+24.39	
SH-3		1	SHORT (OA = 10.07') W/BELL BOLT JT (24 BOLTS/JT)				54+82.79	0°-00'	+0.0000		132.90
E-3		1	w/1" Mueller threaded outlet on E/L 4.00 FFB 16°-34' ELBOW DOWN (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT)	S	9.75	9.75	54+92.54				
				B	0.46	0.46	54+93.00 PI			0.00	
S-2		3	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)		0.81	0.78	54+93.78	16°-54'	-0.3034		132.90
SH-4		1	SHORT (OA = 9.25') W/BELL BOLT JT (24 BOLTS/JT)		59.85	57.27	55+51.05				
E-4		1	26°-16' ELBOW (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT)	S	8.93	8.54	55+59.59				
			ROTATED CCW (LOOKING FROM SPIGOT TO BELL) FOR A				55+60.23 PI			-20.40	
			21°-00' DEFL. LEFT AND A 16°-13' DEFL. UP	B	1.01	1.01	55+61.24 BK	-0°-41'	-0.0119		112.50
S-2		8	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)		159.60	159.59	55+52.86 AH				
F-1		1	FULL BEVEL W/BELL BOLT JT (24 BOLTS/JT) DOWN		19.87	19.80	57+12.45			-1.92	
S-2		2	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)		39.90	39.76	57+32.25	-4°-51'	+0.08485		110.58
							57+72.01			-5.05	105.53

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
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 FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 SB-82-40

Lock Joint Products Division



DATE 12/20/82 BY TRT/lam SWEET 03

PIECE NUMBER	REV	QUAN.	DESCRIPTION	AVG LL	NOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	TOP ELEV
			24" SP-5 (CONTINUED)							
H-1		1	HALF BEVEL W/BELL BOLT JT DEFL. UP	19.91	19.90	57+72.01				105.53
S-2		6	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	119.70	119.65	57+91.91	-1°-39'	-0.02886		
H-1		1	HALF BEVEL W/BELL BOLT JT (24 BOLTS/JT) UP	19.91	19.91	59+11.56			-4.03	101.50
S-2		8	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	159.60	159.60	59+31.47	0°-00'	0.0000		
A-1		1	HALF BEVEL ADAPTER W/BELL BOLT JT (24 BOLTS/JT)			60+91.07				
				S	0.18	0.18				
				B	0.53	0.53	60+91.25 PI		0.00	
S-2		25	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	498.75	498.65	60+91.78	+1°-08'	+0.01965		101.50
SH-5		1	SHORT (9.43' = OA) W/BELL BOLT JT (24 BOLTS/JT)	9.11	9.11	65+90.43				
E-5		1	16°-43' ELBOW (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT) UP W/1.00' EXT ON BELL END			65+99.54				
				S	0.46	0.46			+10.00	
				B	1.80	1.71	66+00.00 PI			111.50
S-2		2	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	39.90	37.98	66+01.71	+17°-51'			
SH-6		1	SHORT (19.40' = OA) W/ BELL BOLT JT (24 BOLTS/JT)	19.08	18.16	66+39.69				
E-6		1	17°-51' ELBOW (TYPE "B") DOWN W/BELL BOLT JT (24 BOLTS/JT) W/0.73' EXT ON SPIGOT END			66+57.85				
				S	1.21	1.15			+19.00	
				B	0.83	0.83	66+59.00 PI			130.50
						66+59.83	0°-00'	0.0000		

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD. THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE & FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 SB-82-40

Lock Joint Products Division



DATE 12/20/82

BY TRF/lam

SHEET: 04

PIECE NUMBER	REV	QUAN	DESCRIPTION		AVG LL	NOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	TOP ELEV
			<u>24" SP-5 (CONTINUED)</u>								
SH-7		1	SHORT (7.85' OA) W/BELL BOLT JT (24 BOLTS/JT)		7.53	7.53	66+59.83				
E-7		1	W/1" MUELLER THREADED OTL ON C/L 3.36' FFB				66+67.36				
			25°-08' ELBOW (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT)	S	0.64	0.64				0.00	
			ROTATED CW FOR A 22°-37' DEFL. DOWN AND A 11°-15'				66+68.00 PI				130.50
			DEFL. RIGHT	B	0.99	0.91		-22°-37'	-0.41667		
S-2		2	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)		39.90	36.83	66+68.91				
SH-8		1	SHORT (4.35' OA) W/BELL BOLT JT (24 BOLTS/JT)		4.03	3.72	67+05.74				
E-8		1	22°-37' ELBOW (TYPE "B") W/BELL BOLT JT (24 BOLTS/JT)	S	0.58	0.54	67+09.46				
				B	0.93	0.93	67+10.00 PI			-1.750	113.00
S-2		1	STRAIGHT W/BELL BOLT JT (24 BOLTS/JT)		19.95	19.95	67+10.93				
							67+30.88				

NOTE 1: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD.
 THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE &
 FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

Lock Joint Products Division



REV. A DATE 1/28/83 BY TRT/lam SHEET: 01

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	HOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
			BEGIN LAYING BELLS AHEAD FROM STATION 0+53 AND REMOVING 36" LJS PLUG AND INSTALLING A 36" LJS X 24" LJB CONCENTRIC REDUCER TYPE B					+2°-04'	+0.0472	
			<u>36" SP-5</u>							
R-3		1	36" LJS X 24" LJB CONCENTRIC REDUCER (TYPE "B")	4.37	4.37	0+53.00				112.40
			(4+26' OA) OPEN JT 3/4" ON TOP 4.68			0+57.37	+0°-30'	+0.0087	-0.46	111.94
			<u>24" SP-5</u>							
S-4		1	STRAIGHT OPEN JT 1/4" ON TOP	16.02	16.02	0+57.37				111.94
S-4	A	1	STRAIGHT OPEN JT 3/4" ON RIGHT	16.02	16.02	0+73.39	-0°-04'	-0.0012		
S-4	A	1	STRAIGHT OPEN JT 1 1/16" ON RIGHT	16.02	16.02	0+89.41				
S-4	A	1	STRAIGHT OPEN JT 3/4" ON LEFT	16.02	16.02	1+05.43				
S-4	A	1	STRAIGHT OPEN JT 1 1/16" ON LEFT	16.02	16.02	1+21.45				
S-4	A	16	STRAIGHTS	256. 48 ³²	256. 48 ³²	1+37.47				
S-4		1	STRAIGHT OPEN JT 1/8" ON LEFT	16.02	16.02	3+93.79				
S-4		1	STRAIGHT OPEN JT 1/16" ON LEFT	16.02	16.02	4+09.81				
S-4		1	STRAIGHT OPEN JT 1/16" ON BOTTOM	16.02	16.02	4+25.83			-0.4	111.50
						4+41.85	0°-00'	+0.0000		

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 3-17-83 By [Signature]

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

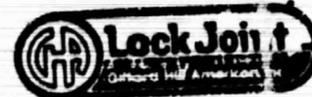
REV	DATE	BY	DESCRIPTION
A	3/8/83	TRT/lam	PER ENGINEERS REQUEST & ADDED SHT. 01(a)

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD. THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & LAYING PIPE & FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE BY QUALIFIED PERSONNEL.

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

Lock Joint Products Division



SHEET: 01(a)

REV. A

DATE 1/28/83 BY TRT/lam

PIECE NUMBER	REV	QUAN.	DESCRIPTION	AVG LL	HOR LL	STATION	ANGLE	TANGENT	ELV CHAISE	T.O.P. ELV
			24" SP-5 (CONTINUED)			4+41.85			0.00	111.50
S-4		33	STRAIGHTS	528.66	528.66	9+70.51	+0°-47'	+0.0137	+0.22	111.72
S-4		1	STRAIGHT OPEN JT 3/8" ON BOTTOM	16.02	16.02	9+86.53	+1°-55'	+0.0333		
S-4		1	STRAIGHT OPEN JT 9/16" ON BOTTOM	16.02	16.01	10+02.54				

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 3-17-83 By [Signature]

NOTE 1: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING HELLS AHEAD. THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE & FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

REV	DATE	BY	DESCRIPTION
A	3/8/83	TRT/lam	PER ENGINEERS REQUEST & ADDED SHT. 01(a)

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-9-83 By S. Hagen

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam

PROJECT 02

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	MOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
			24" SP-5 (CONTINUED)							
S-4		2	STRAIGHTS			10+02.54				
S-4		1	STRAIGHT OPEN JT 5/8" ON TOP	32.04	32.02	10+34.56			+1.60	
S-4		1	STRAIGHT OPEN JT 5/16" ON TOP	16.02	16.02	10+50.58	+0°-39'	+0.0112	+0.18	113.32
S-4		33	STRAIGHTS	16.02	16.02	10+66.60				113.50
S-4		1	STRAIGHT OPEN JT 1/8" ON LEFT	528.66	528.63	10+66.60				
S-4		1	STRAIGHT OPEN JT 1/16" ON LEFT	16.02	16.02	13+95.23				
S-4		14	STRAIGHTS	16.02	16.02	16+11.25				
S-5		1	STRAIGHT W/1" MUELLER TH'D OTL TOP C/L 7.56' FFB	224.28	224.27	16+27.27				
S-4		1	STRAIGHT OPEN JT 1/8" ON TOP	16.02	16.02	18+51.54			0.00	
S-4		1	STRAIGHT OPEN JT 9/16" ON TOP	16.02	16.02	18+67.56	-0°-19'	-0.0056	-0.09	113.50
S-4		2	STRAIGHTS	16.02	16.01	18+83.58	-1°-26'	-0.0250		113.41
S-4		1	STRAIGHT OPEN JT 5/16" ON BOTTOM	32.04	32.03	18+99.59				
S-4		1	STRAIGHT OPEN JT 3/8" ON BOTTOM	16.02	16.02	19+31.62			-1.20	
				16.02	16.02	19+47.64	-0°-45'	-0.0131	-0.21	112.21
				16.02	16.02	19+63.66	0°-00'	+0.0000		112.00

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
 THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE &
 FITTINGS ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

Lock Joint Products Division



REV. A

DATE 1/28/83

BY TRT/lam

SHEET 03

PIECE NUMBER	REV	QUAN	DESCRIPTION		AVG LL	MOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P ELEV
<u>24" SP-5 (CONTINUED)</u>											
S-4		18	STRAIGHTS		288.36	288.36	19+63.66				
SH-9	A	1	SHORT (12.71' OA) W/BELL BOLT BELL (24 BOLTS)		12.46	12.46	22+52.02				
E-9		1	11°-30' ELBOW (TYPE "B") LEFT ROTATED CCW FOR A	S	0.33	0.33	22+64.48			0.00	
			11°-15' DEFL LEFT AND A 2°-24' DEFL. DOWN W/BELL	B	1.86	1.86	22+64.81 PI	-2°-24'	-0.0418		112.00
S-6		1	BOLT JT (24 BOLTS/JT) W/1.18' EXT ON BELL		15.95	15.94	22+66.67				
			STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)		16.02	16.01	22+82.61				
S-7		1	STRAIGHT W/BELL BOLT BELL (24 BOLTS)		2.07	2.07	22+98.62			-1.50	
E-10		1	11°-33' ELBOW (TYPE "B") RIGHT ROTATED CCW FOR A	S	0.68	0.68	23+00.69 PI	+0°-14'	+0.00415		110.50
			11°-15' DEFL RIGHT AND A 2°-38' DEFL UP W/BELL	B			23+01.37 BK				
			BOLT JT (24 BOLTS/JT) AND W/1.75' EXT ON SPIGOT				23+00.68 AH				
S-6		1	STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)		15.95	15.95	23+16.63				
S-4		19	STRAIGHTS		304.38	304.38	26+21.01				
S-8	A	1	STRAIGHT W/12" MJB OTL LEFT C/L 8.03' FFB		16.02	16.02	26+37.03				
S-4		1	STRAIGHT		16.02	16.02	26+53.05				

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-12-83 By S. Hagan

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION
A	3/8/83	TRT/lam	PER ENGINEERS REQUEST

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
 THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE &
 FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

CONTRACTOR'S INSTALLATION REPORT

W.O. No. 515-80-925-P1194-000-000-816 _____ of _____

Contractor W.B. Carter Date: Started 2-7-83 Completed 1-9-84

Description 24" L.P. joint in Douglas from West Street to Hoover.

Main Installed (Total Measured Length)						CODE I.O.B.R.
Feet	Size	Type	Along	From	To	
5292	24"	L.P.	Douglas	West St	Hoover	1

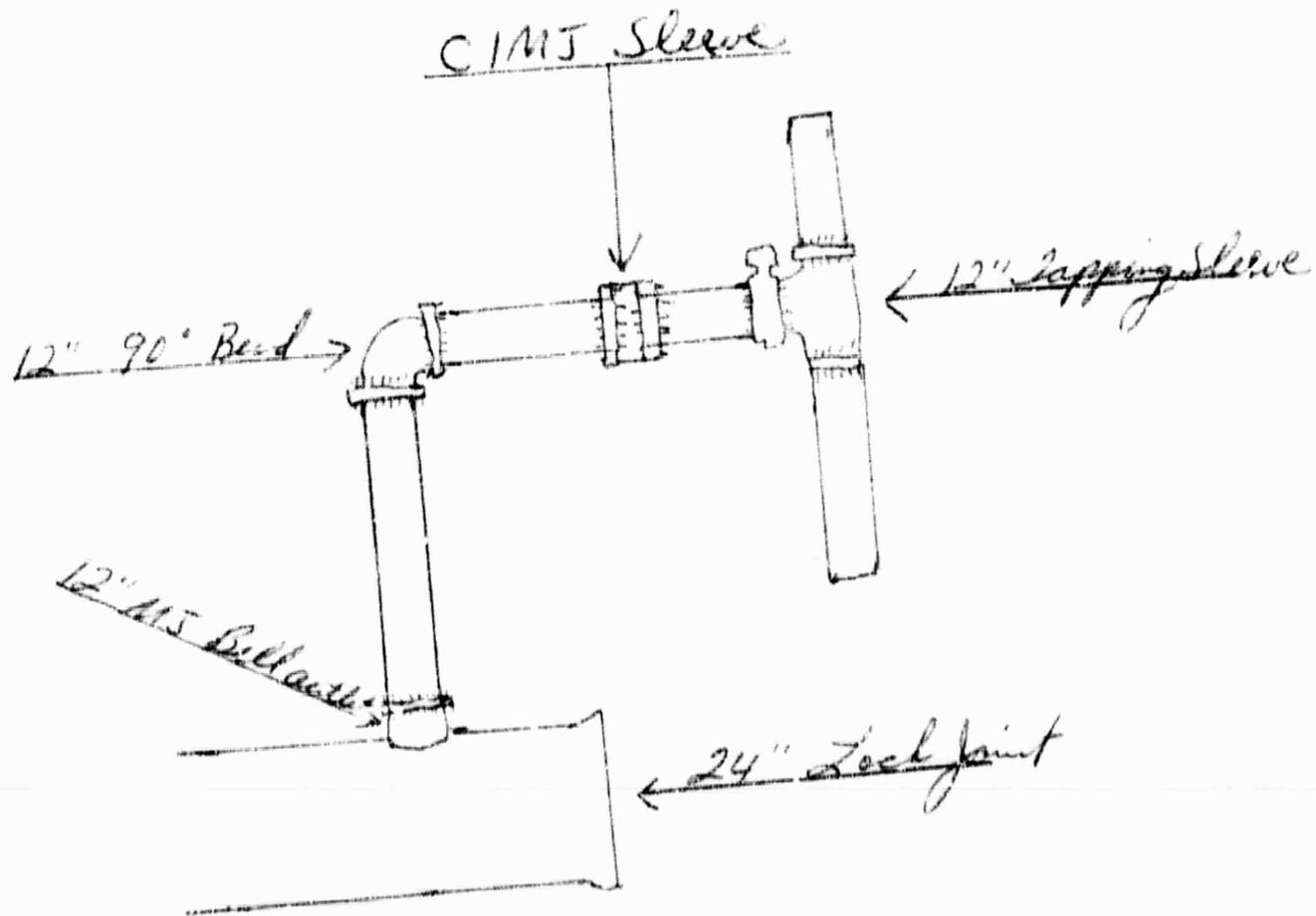
Location (1) Main, (2) End of Main, (3) Fittings, (4) Hydrant, (5) Valves

I.D. No.	Loc.	Description
3	3	36" L.P. Spigot x 24" L.P. Cell Reducers in S. 1/4 W. 1/4 of E of Douglas & West Street.
1	1	Main starts 5.3' W of 13' N of E of Douglas & West Street runs West to blow-off at Hoover West to Florence 12' N of Douglas 8' deep Florence starts swinging to 18' S of N.P. of Douglas at Beulah Nevada starts swinging to 11' N of Douglas on to Beecher 8' deep at Beecher there is 2 soldered joints main lays 26' S of N.P. of Douglas. Date laid at Beecher.
		Continue on Supplement sheets

Permit Type _____ Size of Cut _____ Cut Permit No. _____
 Trench Depth: Max. 8' Min. 3' Avg. 7' Soil Type Sandy
 Excavation (Lin. Ft.) Trencher Hand Hand _____ Bore or Tunnel _____
 Add'l. Infor. (Attach sketch & add'l. sheets if required) _____

Contractor-Supr. Jim Craig Inspector Samuel Baker
 Water Main's Supt. B. Clark 2-16-84 Chief Engr. T & D. [Signature] 3-12-84

Cross Connection at Douglas & Pines



**SUPPLEMENTAL
WICHITA WATER DEPARTMENT
CONTRACTOR'S INSTALLATION REPORT**

W.O. No. 595-80-425-81184-000-000-816

_____ of _____

Description Location of fitting on west levee at flood control ditch

I.D. No.	Loc.	Description
3		17° Elbow at bottom of West Levee is 187' N of Bridge in line with 1st pin from front edge of Bridge
3		17° Elbow at top of West Levee is 117' N of E of Maple + 157' East of Shelby pipe line Marker (east elbow)
3		22° Elbow at the top of levee is 118' N of Maple + 150' east of Shelby pipe line marker (west elbow)
3		22° Elbow at bottom of West Levee is 84' N of E of Maple + 127' E of Shelby pipe line Marker.

NEW WATER DEPARTMENT SYSTEM MATERIAL

Quantity	Size	Type	Description
1	24"	E.L.	24" E.L. 17° Elbow w/ Ball Bolt joints
1	24"	E.L.	24" E.L. 17° Elbow w/ Ball Bolt joints
1	24"	E.L.	24" E.L. 22° Elbow w/ Ball Bolt joints
1	24"	E.L.	24" E.L. 22° Elbow w/ Ball Bolt joints

**WICHITA WATER DEPARTMENT
CONTRACTOR'S INSTALLATION REPORT**

W-732-2A
MAR. 2, 1984

W.O. No. 575-22-925-21194-000-000-016 of _____

Contractor W. B. Carter Date Started 2-7-83 Completed 1-4-84

Description Pipe & fitting from 16" Maple south then
loss on Maple to tie in at Carlton.

Main Installed (Total Measured Length)					CODE
Feet	Size	Type	Along	From	To
3.9'	16"	A.C.		16" Maple then loss on Maple to tie in at Carlton.	

Location (1) Main, (2) End of Main, (3) Fittings, (4) Hydrant, (5) Valve

I.D. No.	Loc.	Description
1		Main starts 52' W of E of Maple + 242' W of West edge of Bridge on North side runs south then loss on South side main is 7' W + 24' W of Telephone Co S.P. Pole then crossing to east to tie in.
3		45° Bend 51' N of E of Maple + 242' W of Bridge
3		22 1/2° Bend 21' N of E of Maple + 242' W of Bridge
3		45° Bend on South side of Maple in 8' W + 2' South of Telephone pole next to S.P. Pole
3		12" M.F. Spigot & 16" M.F. Bell Reducer in 52' West of pipe Marker + 84' South of edge of Bridge.

Pipe Type _____ Size of Cut _____ Cut Permit No. _____

Trench Depth: Max. _____ Min. _____ Avg. _____ Soil Type Sandy

Excavation (Lin. Ft.) Trencher Hand Hand _____ Bore or Tunnel _____

Add'l. Infor. (Attach sketch & add'l. sheets if required) _____

Contractor-Supt. Jim Craig Inspector Russell Baker

Water Main's Supt. B. Clark 2-16-84 Chief Engr. T & D. _____

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam SHEET 04
 REV. A

PIECE NUMBER	REV	QUAN	DESCRIPTION		AVG LL	HDG LL	STATION	ANG. E	TANGENT	ELEV CHANGE	T.O. ELEV
24" SP-5 (CONTINUED)											
SH-10		1	SHORT (7.63' OA) BELL BOLT BELL (24 BOLTS)		7.38	7.38	26+53.05				
E-11		1	22°-31' ELBOW (TYPE "B") RIGHT ROTATED CCW FOR A	S	0.57	0.57	26+60.43			+1.50	
			22°-30' DEFL RIGHT AND A 0°-56' DEFL UP W/BELL				26+61.00 PI				112.0
			BOLT JT (24 BOLTS/JT)	B	0.93	0.93	26+61.93	+1°-10'	+0.0205		
S-6		1	STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)		15.95	15.95	26+77.88				
S-4		3	STRAIGHTS		48.06	48.05	27+25.93				
SH-11		1	SHORT (7.92' OA) W/BELL BOLT BELL (24 BOLTS)		7.67	7.67	27+33.60				
E-12		1	22°-30' ELBOW (TYPE "B") LEFT ROTATED CCW FOR A	S	0.57	0.57	27+34.17 PI			+1.50	113.0
			22°-30' DEFL. LEFT AND 1°-10' DEFL DOWN W/BELL				27+35.10 BK	0°-00'	0.0000		
			BOLT JT (24 BOLTS/JT)	B	0.93	0.93	27+29.53 AH				
S-6		1	STRAIGHT W/BELL BOLT SPIGOT (24 BOLTS)		15.95	15.95	27+45.48				
S-4	A	42	STRAIGHTS		672.84	672.84	34+18.32				
S-9		1	STRAIGHT OPEN JT 1/2" ON RIGHT W/1" MUELLER TH'D		16.02	16.02	34+34.34			0.00	113.0
			OTL TOP C/L 14.34' FFB				34+50.36	-0°-36'	-0.0106	-0.17	113.0
S-4		1	STRAIGHT OPEN JT 5/16" ON TOP ROTATED CCW FOR A		16.02	16.02					
			0°-36' DEFL. DOWN AND 0°-07' DEFL RIGHT								

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-17-83 By [Signature]

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION
A	3/8/83	TRT/lam	PER ENGINEERS REQUEST

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD.
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 FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED.

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON PINE & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-7-83 By [Signature]

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam

SHEET: 05

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	HDR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
			24" SP-5 (CONTINUED)							
S-4		1	STRAIGHT OPEN JT 3/16" ON TOP							
S-4		2	STRAIGHTS	16.02	16.02	34+50.36				113.33
S-4		1	STRAIGHT OPEN JT 7/16" ON BOTTOM	32.04	32.04	34+66.38	-0°-57'	-0.0167		
S-4		1	STRAIGHT OPEN JT 1/16" ON BOTTOM	16.02	16.02	34+98.42			-J.80	
S-4		4	STRAIGHTS	16.02	16.02	35+14.44	0°-06'	-0.0019	-0.03	112.53
S-4		1	STRAIGHT OPEN JT 3/8" ON LEFT	64.08	64.08	35+30.46	0°-00'	0.0000		112.50
S-4		1	STRAIGHT OPEN JT 3/16" ON LEFT	16.02	16.02	35+94.54				
S-4		29	STRAIGHTS	16.02	16.02	36+10.56				
S-4		1	STRAIGHT OPEN JT 1/16" ON LEFT	464.58	464.58	36+26.58				
S-4		1	STRAIGHT OPEN JT 1/16" ON LEFT	16.02	16.02	40+91.16				
S-4		4	STRAIGHTS	16.02	16.02	41+07.18				
				64.08	64.08	41+23.20				
						41+87.28				

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD
 THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE &
 FITTINGS ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 12-9-83 By S. [Signature]

Lock Joint Products Division



DATE 1/28/83 BY TRT/lam

SHEET: 06

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVOLL	MORL	STATION	ANGLE	TANGENT	ELIV CHANGE	T.O.P. ELEV
<u>24" SP-5 (CONTINUED)</u>										
S-4	1		STRAIGHT OPEN JT 1/16" ON RIGHT	16.02	16.02	41+87.28				
S-4	1		STRAIGHT OPEN JT 1/16" ON RIGHT	16.02	16.02	42+03.30				
SH-12	1		SHORT (14.83' OA)	14.58	14.58	42+19.32				
S-4	5		STRAIGHTS	80.10	80.10	42+33.90				
S-7	1		STRAIGHT W/BELL BOLT BELL (24 BOLTS)	16.02	16.02	43+14.00				
S-10	1		STRAIGHT W/BELL BOLT JT (24 BOLTS/JT)	15.95	15.95	43+30.02				
E-13	1		11°-15' ELBOW (TYPE "B") DOWN W/BELL BOLT JT (24 BOLTS/JT) W/1.00' EXT ON SPIGOT END	1.33	1.33	43+45.97				
S-10	2		STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	0.68	0.67	43+47.30 PI	-11°-15'	-0.1989	0.00	112.50
SH-13	1		SHORT (5.85' OA) W/BELL BOLT JT (24 BOLTS/JT)	31.90	31.29	43+47.97				
E-14	1		11°-25' ELBOW (TYPE "B") UP W/BELL BOLT JT (24 BOLT/JT)	5.53	5.42	43+79.26				
S-10	2		STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)	0.33	0.32	43+84.68				
SH-14	1		SHORT (7.41' OA) W/BELL BOLT JT (24 BOLTS/JT)	0.68	0.68	43+85.00 PI	0°-00'	0.0000	-7.50	105.00
				31.90	31.90	43+85.68				
				7.09	7.09	44+17.58				
						44+24.67				

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE OF PIPE AND FITTINGS

REV	DATE	BY	DESCRIPTION

ALL LAYING INSTRUCTIONS GIVEN LOOKING IN THE DIRECTION OF LAYING BELLS AHEAD. THIS SCHEDULE SUPPLIED ONLY AS A GUIDE FOR DISTRIBUTING & INSTALLING PIPE & FITTINGS. ADJUSTMENT TO MEET FIELD CONDITIONS MUST BE MADE AS REQUIRED.

PIPE LAYING SCHEDULE

WICHITA, KANSAS
 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-9-83 By S. Hyman

Lock Joint Products Division



DATE 1/28/83

BY Tkt/lam

SHEET: 07

PIECE NUMBER	REV	QUAN	DESCRIPTION		AVG LL	HOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. Elev
<u>24" SP-5 (CONTINUED)</u>											
E-15		1	11°-15' ELBOW (TYPE "B") UP W/BELL BOLT JT (24 BOLTS/JT)	S	0.33	0.33	44+24.67			0.00	
				B	0.68	0.67	44+25.00 PI	+11°-25'	+0.1989		105.00
S-10		2	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT)		31.90	31.29	44+25.67				
SH-15		1	SHORT (13.54' OA) W/BELL BOLT JT (24 BOLTS/JT)		13.22	12.97	44+56.96				
E-16		1	11°-20' ELBOW (TYPE "B") DOWN W/BELL BOLT JT (24 BOLTS/JT)	S	0.33	0.32	44+69.93			+9.00	
				B	0.68	0.68	44+70.25 PI	-0°-05'	-0.00155		114.00
S-11		1	STRAIGHT W/BELL BOLT JT (24 BOLTS/JT) W/1" MUE TH'D OTL TOP C/L 6.88' FFB		15.95	15.95	44+70.93				
S-6		1	STRAIGHT W/BELL BOLT SPIG01 (24 BOLTS)		15.95	15.95	44+86.88				
S-4		12	STRAIGHTS		192.24	192.24	45+02.83				
S-4		1	STRAIGHT OPEN JT 3/16" ON LEFT		16.02	16.02	46+95.07				
S-4		1	STRAIGHT OPEN JT 1/8" ON LEFT		16.02	16.02	47+11.09				
S-4		4	STRAIGHTS		64.08	64.08	47+27.11				
S-4		1	STRAIGHT OPEN JT 1/8" ON RIGHT		16.02	16.02	47+91.19				
							48+07.21				

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REV	DATE	BY	DESCRIPTION

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PIPE LAYING SCHEDULE

WICHITA, KANSAS

WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.

24" SP-5

OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 1-2-83 By S. Hyman

Lock Joint Products Division



DATE 1/28/83

TRT/lam

SHEET: 08

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	HOR LL	STATION	ANGLE	TANGENT	SLEV CHANGE	T.O.P. SLEV
			24" SP-5 (CONTINUED)							
S-4		1	STRAIGHT OPEN JT 3/16" ON RIGHT	16.02	16.02	48+07.21				
S-4		17	STRAIGHTS	272.34	272.34	48+23.23				
SH-16		1	SHORT (15.35' OA) W/BELL BOLT BELL (24 BOLTS)	15.10	15.10	50+95.57				
T-1		1	24" LJS X 24" LJB X 24" LJB (TYPE II) BRANCH (LEFT) (RUN OA = 5.33') (BRANCH LL = OA = 2.68') W/BELL BOLT JT (24 BOLTS/JT) AND ROTATE TEE FOR A 2°-29' DEFL. DOWN	S 2.33	2.33	51+10.67				
			BRANCH OF TEE W/BELL BOLT BELL (24 BOLTS)	B 2.68	2.68	51+13.00 PI			-1.00	113.00
S-12		3	STRAIGHTS W/BELL BOLT JT (24 BOLTS/JT) W/0.0996" CYLINDER (CODE: YELLOW)	47.85	47.81	51+15.68	-2°-29'	-0.0436		
S-13		1	STRAIGHT W/BELL BOLT JT (24 BOLTS/JT) W/0.0710" CYLINDER (CODE: RED)	15.95	15.94	51+15.68				
SH-17		1	SHORT (12.79' OA) W/BELL BOLT JT (24 BOLTS/JT)	12.47	12.46	51+15.68				
E-17		1	56°-02' ELBOW (TYPE "B") RIGHT W/BELL BOLT BELL (24 BOLTS/JT) ROTATED CW FOR A 56° DEFL RIGHT AND 2°-17' DEFL DOWN	S 1.41	1.41	51+79.43				
				B 1.76	1.76	51+91.89			-3.50	109.50
						51+93.30 PI	-0°-12'	-0.0035		
						51+95.06 BK *				
						51+26.76 AH *				

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REV	DATE	BY	DESCRIPTION

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PIPE LAYING SCHEDULE

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 WATER MAIN CONSTRUCTION: ON DOUGLAS & MAPLE AVE.
 24" SP-5
 OUR JOB NO. KC-83-4

APPROVED
 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-9-83 By S. Szymon

Lock Joint Products Division
 DATE 1/28/83 BY TRT/lam



SHEET: 09

PIECE NUMBER	REV	QUAN	DESCRIPTION	AVG LL	MOR LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV
			24" SP-5 (CONTINUED)							
			LAYING FROM PI OF TEE ON BELL END OF RUN			51+13.00 BK 0+00.00 AH				
			PI TO BELL END OF TEE ON RUN	2.68	2.68	0+02.68				
			24" BELL BOLT SPIGOT X 16" MJS CONCENTRIC REDUCER (TYPE "B") W/(24 BOLTS)(4.09' OA)	3.77	3.77	0+06.45				
R-4			BEGIN LAYING BELLS AHEAD FROM STATION 67+30.88			67+30.88				
			SHORT (12.52' OA) W/BELL BOLT JT (24 BOLTS/JT)	12.20	12.20	67+43.08			0.00	113.00
SH-18	1		37°-00' ELBOW (TYPE "B") RIGHT W/BELL BOLT JT	S 0.92	0.92	67+44.00 PI				
E-18	1		(24 BOLTS/JT)	B 1.27	1.27	67+45.27 BK 67+91.06 AH				
			24" BbS X 20" MJS CONCENTRIC REDUCER W/1.00' EXT ON MJS END W/2 LUGGING EARS 45° OFF SPRINGLINE (CONTRACTOR TO SUPPLY HARNESS TIE RODS AND ACCESSORIES) (OA = 5.10')(24 BOLTS)	4.77	4.77	67+95.83				
R-1	1		BUTTERFLY VALVE SUPPLIED BY OTHERS (CONTRACTOR TO VERIFY)	0.36	0.36	67+96.19				
			MJS X MJS SPOOL PIECE (DUCTILE IRON, TO BE SUPPLIED BY CONTRACTOR)	2.50	2.50	67+98.69				

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 WICHITA WATER DEPARTMENT
 CITY OF WICHITA
 Date 2-9-83 By S. Egan

Lock Joint Products Division



DATE 1/28/83 BY TKT/lam SHEET 11

PIECE NUMBER	REV	QUAN.	DESCRIPTION	AVG LL	NOB LL	STATION	ANGLE	TANGENT	ELEV CHANGE	T.O.P. ELEV.
<u>24" SP-5 (CONTINUED)</u>										
S-15		1	STRAIGHT OPEN JT 3/16" ON LEFT W/6" FLG (150#) OTL LEFT C/L 5.26' FFB	16.02	16.02	76+05.26				
S-4		4	STRAIGHTS	64.08	64.08	76+21.28				
S-4		1	STRAIGHT OPEN JT 1/16" ON RIGHT	16.02	16.02	76+85.36				
S-4		1	STRAIGHT OPEN JT 1/4" ON RIGHT	16.02	16.02	77+01.38				
S-4		5	STRAIGHTS	80.10	80.10	77+17.40				
S-4		1	STRAIGHT OPEN JT 1/2" ON RIGHT AND ROTATE CW FOR A 0°-58' VORIZ. DEFL. LEFT AND 0°-01' DEFL UP	16.02	16.02	77+97.50			+0.00055	+0.50
S-4		1	STRAIGHT OPEN JT 1/8" ON RIGHT	16.02	16.02	78+13.52	+0°-03'	+0.00083		113.50
S-4		35	STRAIGHTS	560.70	560.70	78+29.54				
S-16		1	STRAIGHT W/6" FLG (150#) OTL LEFT C/L 2.26' FFB	16.02	16.02	83+90.24				
S-4		30	STRAIGHTS	480.60	480.60	84+06.26				
S-4		1	STRAIGHT OPEN JT 1/16" ON RIGHT	16.02	16.02	88+86.86				
S-4		1	STRAIGHT OPEN JT 1/4" ON RIGHT	16.02	16.02	89+02.88				
S-4		1	STRAIGHT OPEN JT 1/4" ON RIGHT	16.02	16.02	89+18.90				

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