195TH STREET

SEE SHEET 4

PROPOSED CURB

FUTURE WATERMAIN

END CURB 3+10

PCC = 3+01.52

PCC = 2+75.35

MH 2

R=20'

TC 979.64

TC 978.64

Δ = 35°44'38"
R = 232.59'
T = 75.00'
L = 145.10'

0+89
969.98
58' CL

2+78
969.00
52' CL

1+98
969.66
47' CL

3+46
968.64
45' CL

MH 3

MH 4

3+00
968.36
15' CL

2+03
969.15
17' CL

1+29
969.51
23' CL

0+63
969.84
26' CL

3+50 6"–22½° BEND

Δ = 47°11'05"
R = 194.63'
T = 85.00'
L = 160.28'

HYD w/VALVE
12"–6" LEAD
6"X6" TEE

6" VALVE 0+27

6"–22½° BEND

AUBURN STREET

SEE SHEET 3

TC 980.46

INSTALL STREET SIGN

CB 2
GL 976.99

4+15
968.16
36' CL

4+48

TC 979.24

TC 977.60

TC 978.61

R=20'

WARP SECTION

4+22
967.92
19' CL

PT = 4+35.98

4+76 ST MH 1
GL 976.86

MH 5

ZANE STREET
SEE SHEET 7

TC 979.24

TC 978.61

CB 1
GL 977.44

5+26

R=20'

TC 978.04

5+12
967.75
28' CL

6"X6"TEE
4+96

6" VALVE 5+11

PROPOSED STORM SEWER
SEE SHEET 7

SEE SHEET 6

1 2 3 4 5 6 7 8 9 10

TOP 979.80 | 979.72 | 979.59 | 979.46 | 979.33 | TOP 979.15 | 979.07 | 978.94 | 978.81 | 978.68 | 978.55 | 978.42 | 978.29 | 978.16 | TOP 977.98 | 977.90 | 977.77 | 977.64 | 977.51 | 977.43 | 977.40 | TOP 977.38 | 977.75 | 977.94 | 978.39 | 978.84

990 985 980 975 970 965

125'–8" PVC SANITARY @ 0.44%

225'–8" PVC SANITARY @ 0.48%

136'–8" PVC SANITARY @ 0.46%

486'–6" DIP WATERMAIN

FINISHED ℄ GRADE

–0.52%

7.5'MIN. COVER

40'–15"RCP CL III @ 3.20%

60'–15"RCP CL III @ 2.85%

1.81%

50.00' VC
LOW POINT ELEV = 977.40
LOW POINT STA = 4+76.16
PVI STA = 4+90
PVI ELEV = 977.30
A.D. = –2.33
K = 21.45

BVC 4+65

EVC 5+15

969.80 S
969.70 E

969.15 W
969.05 E

967.98 W
967.88 E

973.48 S

972.20 N
972.20 E
972.10 S

973.91 W

967.25 W
967.25 E
967.15 N

+00 ℄ AUBURN ST. MH 2

+25 MH 3

+50 ST MH 4

+45 CB 2

+76 ST MH1

+86.24 ℄ ZANE STREET MH 5

+26 CB 1

RECORD PLAN
JANUARY 1997

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Gregory J. Mannes

DATE 8/21/96 REG.NO. 15316

MSA CONSULTING ENGINEERS

1326 ENERGY PARK DRIVE
ST. PAUL, MINNESOTA 55108
(612) 644–4389

REVISIONS	DATE	DESCRIPTION

DESIGNED SEF
CHECKED
DRAWN RKM
GRAPHIC SCALE 0 20 0 VERT. 5

CITY OF ELK RIVER
SANITARY SEWER, WATERMAIN, STREET & STORM SEWER
195TH STREET
0+00 TO 5+00

DATE JULY 1996 | SHEET 5 OF 16 SHEETS | PROJECT NO. 230–292

ER292–1

1070

0:\CAD\ElkRiver\ER292\ER292-1.dwg Wed Oct 29 13:55:02 1997

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