180TH AVENUE N.W.

HERITAGE LANDING

FRESNO STREET N.W.

FRESNO COURT N.W.

SEE SHEET 4

CB 3
GL ~~873.53~~ 873.61
INV. ~~870.53~~ 870.51

873.90 TC

INSTALL RINGS AND CASTING ON EXISTING MH–TOP 873.85

874.87 TC

R=25'

32'
35'–15" RCP CL.3 @ 0.32%

INSTALL RINGS AND CASTING ON EXISTING MH– GL 873.53

EX. STORM MH
GL ~~873.53~~ 873.58
INV. N 866.55
INV. S 866.45
INV. W 870.42

873.90 TC

873.38 TC

R=25'

END CURB AND GUTTER 6+50

END BITUMINOUS STREET CONSTRUCTION AT RAD. PT.

FUTURE MISSISSIPPI OAKS STREET CONSTRUCTION

3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00

FM FM

60
50 L.F. – 6" FORCEMAIN WITH 6" PLUG

STRAIGHT LINE CUT, TACK AND MATCH EXISTING BITUMINOUS

MH 1
GL ~~873.70~~ 875.67
INV. W ~~870.00~~
INV. S ~~870.00~~ 870.21
INV. E ~~869.90~~

874.87 TC

874.07 TC

R=25'

CB 4
GL ~~873.70~~ 873.66
INV. ~~870.70~~ 870.64

873.38 TC

874.07 TC

END CURB AND GUTTER 6+65

EX. STORM MH
GL ~~872.86~~ 873.02
INV. N 866.13
INV. E 865.68
INV. SW 870.57
INV. W ~~868.12~~ 867.96

INSTALL RINGS AND CASTING ON EXISTING MH– GL 872.86

CB 5
BEEHIVE CASTING
TOP ~~873.00~~ 873.49
INV. ~~870.51~~ 870.74

68'
72'–15" RCP CL.3 @ 0.32%

160'–15" RCP CL.3 @ 0.32%

1 2 3 4 5 6 7 8

876.45 875.91 875.29 874.65 874.01 873.90 873.37

GL ~~873.70~~ 875.67
TOP 873.85
GL 872.86

885 880 875 870 865 860

FINISHED ℄ GRADE

–1.04%

–1.28%

202' – 24" RCP CL.3 @ 0.88%

EX. 30" RCP CROSSING

18"

INV. S 870.00
INV. W 870.00
INV. E 869.90

DEFLECT WATERMAIN AND FORCEMAIN TO MAINTAIN 18" MINIMUM VERTICAL SEPARATION BELOW STORM SEWER CROSSING

+51.84 PLAT LINE GRADE BREAK MH 1

+99 EX. WM CROSSING

+08.7 ℄ FRESNO STREET N.W.

EX. MH

+50 END BITUMINOUS

+52 EX. PLUG

+57 EX. MH

+60 8" PLUG

RECORD PLAN NOV,1993

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.
Mark V. Hasham
DATE 6/7/93 REG.NO. 19130

CONSULTING ENGINEERS
Maier Stewart & Associates Inc.
1959 SLOAN PLACE (612) 774–6021 ST. PAUL, MINNESOTA 55117
9800 SHELARD PARKWAY (612) 546–0432 MINNEAPOLIS, MINNESOTA 55441

REVISIONS	DATE	DESCRIPTION

DESIGNED
CHECKED
DRAWN CLS
GRAPHIC SCALE 0 HORIZ. 20 0 VERT. 5

CITY OF ELK RIVER
SANITARY SEWER, WATERMAIN, STREET & STORM SEWER
180TH AVENUE N.W. STA. 4+50 TO 6+50

DATE MAY 1993 | SHEET 5 OF 16 SHEETS | PROJECT NO. 230–164

ER164–3

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER
MISSI 1.93
5