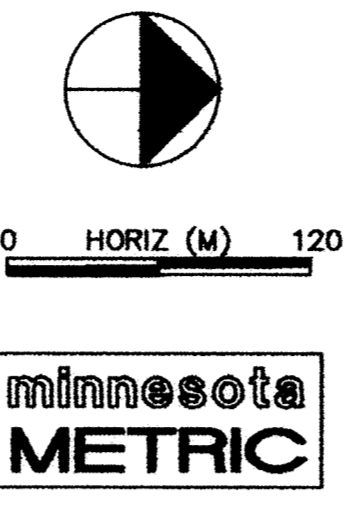


Alignment: tyler Desc: REVISED ALIGNMENT 4/30/99

PI Station	Northing	Easting	Distance	Direction
0+000	66410.7949	178815.1283	113.8079	S 32-51-28 W
0+113.808	66315.1941	178753.3812	835.4781	S 01-51-56 E
0+945.764	65480.1588	178780.5815	370.6339	S 65-55-26 E
1+283.117	65328.9582	179118.9715	227.5236	S 13-39-13 E
1+500.978	65107.8645	179172.6793	380.3608	S 01-17-13 W
1+880.074	64727.5996	179164.1370	363.4161	S 70-48-27 E
2+215.865	64608.1288	179507.3542	435.7686	S 51-05-35 W
2+445.392	64334.4411	179168.2534	240.6714	S 89-56-59 W
2+682.249	64334.2302	178927.5820		



171ST AVENUE

S89°56'59"W  
191.292 m

C/L CURVE DATA  
 $\Delta = 38^{\circ}51'24''$   
 L = 94.945 m  
 T = 49.380 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 72^{\circ}5'40''$   
 L = 176.160 m  
 T = 101.892 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 121^{\circ}54'2''$   
 L = 297.859 m  
 T = 252.050 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 14^{\circ}56'26''$   
 L = 221.648 m  
 T = 111.456 m  
 R = 850.000 m

C/L CURVE DATA  
 $\Delta = 52^{\circ}16'12''$   
 L = 127.720 m  
 T = 68.691 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 64^{\circ}3'29''$   
 L = 279.506 m  
 T = 156.394 m  
 R = 250.000 m

C/L CURVE DATA  
 $\Delta = 29^{\circ}3'10''$   
 L = 152.120 m  
 T = 77.733 m  
 R = 300.000 m

C/L CURVE DATA  
 $\Delta = 60^{\circ}46'15''$   
 L = 193.972 m  
 T = 107.232 m  
 R = 182.880 m

C/L CURVE DATA  
 $\Delta = 68^{\circ}36'44''$   
 L = 219.000 m  
 T = 124.781 m  
 R = 182.880 m

N 64334.3978  
E 179118.8737

N 64694.1032  
E 179260.3659

N 64690.9888  
E 179269.3130

N 64996.4362  
E 179170.1762

N 65216.1711  
E 179146.3696

N 65262.2080  
E 179135.1864

N 65416.3578  
E 178923.3695

N 65356.9810  
E 179056.2560

N 66447.1820  
E 178838.6300

N 66653.2638  
E 178833.4198

N 66788.3348  
E 178736.1671

N 66928.6185  
E 178681.6759

N 67181.5437  
E 178651.9569

N 67350.9683  
E 178726.2720

N 66363.2240  
E 178784.4030

C/L CURVE DATA  
 $\Delta = 38^{\circ}51'24''$   
 L = 94.945 m  
 T = 49.380 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 72^{\circ}5'40''$   
 L = 176.160 m  
 T = 101.892 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 121^{\circ}54'2''$   
 L = 297.859 m  
 T = 252.050 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 14^{\circ}56'26''$   
 L = 221.648 m  
 T = 111.456 m  
 R = 850.000 m

C/L CURVE DATA  
 $\Delta = 52^{\circ}16'12''$   
 L = 127.720 m  
 T = 68.691 m  
 R = 140.000 m

C/L CURVE DATA  
 $\Delta = 64^{\circ}3'29''$   
 L = 279.506 m  
 T = 156.394 m  
 R = 250.000 m

C/L CURVE DATA  
 $\Delta = 29^{\circ}3'10''$   
 L = 152.120 m  
 T = 77.733 m  
 R = 300.000 m

C/L CURVE DATA  
 $\Delta = 60^{\circ}46'15''$   
 L = 193.972 m  
 T = 107.232 m  
 R = 182.880 m

C/L CURVE DATA  
 $\Delta = 68^{\circ}36'44''$   
 L = 219.000 m  
 T = 124.781 m  
 R = 182.880 m

COUNTY ROAD NO.12

TYLER STREET NORTH OF COUNTY ROAD NO.12

PI Station	Northing	Easting	Distance	Direction
0+000	66410.7952	178815.1283	168.0975	N 32-51-28 E
0+168.098	66552.0004	178906.3306	368.9534	N 35-45-16 W
0+506.490	66851.4171	178690.7472	439.6302	N 06-42-06 W
0+942.775	67288.0435	178639.4430	107.2325	N 54-04-09 E
1+029.514	67350.9683	178726.2720		

DESIGNED BY: --- DRAWN BY: *OG*  
 APPROVED: --- JOB NUMBER 800110J  
 CAD DATE: November 08, 1999 2:03:48 p.m.  
 CAD FILE: 800110T\MISC\CALC.DWG

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.  
 DATE \_\_\_\_\_ REG. NO. \_\_\_\_\_

NO.	DATE	BY	REVISION DESCRIPTION
1	4/30/99		CURVE AT TRACKS TO 140.00 m
2	11/8/99		REVISE CALC'S

**Howard R. Green Company**  
 CONSULTING ENGINEERS  
 1326 ENERGY PARK DRIVE  
 ST. PAUL, MINNESOTA 55108  
 (612) 644-4388

**CITY OF ELK RIVER**  
 EASTERN AREA  
 TYLER STREET IMPROVEMENTS

**CALC SHEET**  
 SP 71-613-06, SP 204-020-03, SP 204-133-01, SP 204-132-03

SHEET NO.  
**G10**