

**WATERMAIN SCHEDULE**

| STATION        | LOCATION     | CONNECT TO EX EA | 6" - DIP WATERMAIN ft | 8" - DIP WATERMAIN ft | 12" - DIP WATERMAIN ft | 16" - DIP WATERMAIN ft | 8" VALVE EA | 12" VALVE EA | 16" VALVE EA | HYDRANT W/ VALVE EA |
|----------------|--------------|------------------|-----------------------|-----------------------|------------------------|------------------------|-------------|--------------|--------------|---------------------|
| 0+00 to 5+00   | 175TH AVENUE | 1                |                       |                       |                        | 149                    |             |              | 1            |                     |
| 5+00 to 10+50  | 175TH AVENUE |                  | 23                    |                       |                        | 550                    |             |              |              | 1                   |
| 10+50 to 16+00 | 175TH AVENUE |                  | 55.5                  |                       | 111                    | 550                    |             | 1            | 1            | 2                   |
| 16+00 to 21+50 | 175TH AVENUE |                  | 24                    |                       |                        | 550                    |             |              |              | 1                   |
| 21+50 to 27+00 | 175TH AVENUE |                  | 24                    |                       |                        | 550                    |             |              | 1            | 1                   |
| 27+00 to 32+50 | 175TH AVENUE |                  | 25                    |                       |                        | 342                    |             |              | 1            | 1                   |
| <b>TOTAL</b>   |              | <b>1</b>         | <b>151.5</b>          |                       | <b>111</b>             | <b>2691</b>            |             | <b>1</b>     | <b>4</b>     | <b>6</b>            |

**SANITARY SEWER SCHEDULE**

| STRUCTURE    | STATION | LOCATION   | TOP    | INVERT | 8" PVC SDR 26 ft   | 8" PVC SDR 35 ft | TO STRUCT |
|--------------|---------|------------|--------|--------|--------------------|------------------|-----------|
| MH 1         | 7+25    | 175TH AVE. | 896.00 | 875.56 | 374                |                  | Ex. MH    |
| MH 2         | 11+25   | 175TH AVE. | 899.55 | 877.26 | 400                |                  | MH 1      |
| MH 3         | 15+08   | 175TH AVE. | 896.60 | 878.89 | 383                |                  | MH 2      |
| PLUG         | 15+08   | POLK ST.   | -      | 879.25 | 66                 |                  | MH 3      |
| PLUG         | 15+08   | Trunk Ext. | -      | 879.17 | 45                 |                  | MH 3      |
| MH 4         | 18+80   | 175TH AVE. | 895.35 | 880.48 | 372                |                  | MH 3      |
| MH 5         | 22+80   | 175TH AVE. | 887.57 | 882.18 | 400                |                  | MH 4      |
| MH 6         | 26+75   | 175TH AVE. | 892.61 | 883.74 | 366                |                  | MH 5      |
| MH 7         | 29+99   | 175TH AVE. | 897.87 | 885.26 | <del>300</del> 354 |                  | MH 6      |
| PLUG         | 30+30   | Trunk Ext. | -      | 885.60 | <del>414</del> 60  |                  | MH 7      |
| <b>TOTAL</b> |         |            |        |        | <b>2820</b>        |                  |           |

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

**MN/DOT STANDARD PLATES**

| PLATE NO. | DESCRIPTION  |
|-----------|--|
| 3000 L    | REINFORCED CONCRETE PIPE                                   |
| 3006 G    | GASKET JOINT FOR REINFORCED CONCRETE PIPE                  |
| 3040 F    | CORRUGATED METAL PIPE CULVERT                              |
| 3100 G    | CONCRETE APRON FOR REINFORCED CONCRETE PIPE                |
| 3128 H    | METAL SAFETY APRON & GRATE                                 |
| 3133 C    | RIPRAP AT RCP OUTLETS                                      |
| 3145 E    | CONCRETE PIPE TIES   |
| 4006 L    | MANHOLE OR CATCH BASIN (DES H)                             |
| 4010 H    | CONC. SHORT CONE & ADJUSTING RING (SECTIONAL CONCRETE)     |
| 4011 E    | PRECAST CONCRETE BASE                                      |
| 4020 G    | MANHOLE OR CATCH BASIN COVER (FOR USE UNDER TRAFFIC LOADS) |
| 7111 J    | INSTALLATION OF CATCH BASIN CASTINGS                       |
| 8000 I    | STANDARD BARRICADE   |
| 9102 D    | TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)            |

**UTILITIES**

| PLAN SYMBOL | ITEM IN PLACE                  | STATION        | REMARKS            | OWNERSHIP       | PHONE          |
|-------------|--------------------------------|----------------|--------------------|-----------------|----------------|
| PPQ         | POWER POLE - OVERHEAD ELECTRIC | 3+56<br>7+06   | RELOCATE BY OTHERS | CONNEXUS ENERGY | (763-323-2600) |
|             |                                | 10+61<br>13+47 | RELOCATE BY OTHERS |                 |                |
|             |                                | 14+05<br>17+55 | RELOCATE BY OTHERS |                 |                |
|             |                                | 19+09<br>21+04 | RELOCATE BY OTHERS |                 |                |
|             |                                | 24+56<br>28+12 | RELOCATE BY OTHERS |                 |                |
|             |                                | 31+62<br>35+14 | RELOCATE BY OTHERS |                 |                |
| — GAS —     | UNDERGROUND GAS                |                |                    | MINNEGASCO      | (612-321-5426) |
| — TELE —    | UNDERGROUND TELEPHONE          | 7+64<br>11+51  | RELOCATE BY OTHERS | QUEST           | (763-712-5018) |
|             |                                | 17+58<br>20+51 | RELOCATE BY OTHERS |                 |                |
|             |                                | 23+40<br>26+41 | RELOCATE BY OTHERS |                 |                |
|             |                                | 26+48<br>45+13 | RELOCATE BY OTHERS |                 |                |
|             |                                | 51+74          | RELOCATE BY OTHERS |                 |                |

**RECORD PLAN  
JANUARY 2005**

DESIGNED BY: KJT DRAWN BY: RKM  
 APPROVED: TJM JOB NUMBER 806550J  
 CAD DATE: January 28, 2005 10:27:06 a.m.  
 CAD FILE: 806550J\AS-BUILT\MISC\806550-EQ2.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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 DATE \_\_\_\_\_  
 JOHN M. ANDERSON LIC. 25889

| NO. | DATE | BY | REVISION DESCRIPTION |
|-----|------|----|----------------------|
|     |      |    |                      |
|     |      |    |                      |
|     |      |    |                      |



**Howard R. Green Company**  
CONSULTING ENGINEERS  
 1326 ENERGY PARK DRIVE  
ST. PAUL, MINNESOTA 55108  
(651) 644-4389

**175TH AVENUE**  
CITY OF ELK RIVER  
175TH AVENUE

ESTIMATED QUANTITIES  
 SP. 204-111-04

SHEET NO.  
**5**