

| STORM SEWER SCHEDULE | | | | | | | | | | | |
|----------------------|---------|-----------|-----------|-----------|-------|----------|-----------|------------|-------|--------------|----------------|
| Structure No. | Station | Offset | Northing | Easting | Type | Casting | Rim Elev. | Inv. Elev. | Depth | 15" RCP CL V | 18" RCP CL III |
| STMH 1 | 2+20 | 16.67' LT | 212719.49 | 585320.73 | 48" ø | R-4341-A | 884.71 | 880.07 | 4.64 | 32' @ 0.32% | |
| STMH 2 | 2+20 | 16.67' RT | 212721.67 | 585287.47 | 48" ø | R-4341-A | 884.71 | 879.87 | 4.84 | | 148' @ 0.25% |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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 |
| 3100 G | CONCRETE APRON FOR REINFORCED CONCRETE PIPE |
| | |
| 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 |
| | |
| | |
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| SANITARY SEWER SCHEDULE | | | | | | | |
|-------------------------|---------|-----------|--------|--------|---------------------|---------------------|-----------|
| STRUCTURE | STATION | LOCATION | TOP | INVERT | 6" PVC SDR 26 ft | 8" PVC SDR 35 ft | TO STRUCT |
| MH 1 | 6+25 | ZANE AVE. | 892.89 | 872.59 | | 143 | Ex. MH |
| MH 2 | 5+50 | ZANE AVE. | 888.52 | 873.08 | | 75 | MH 1 |
| PLUG | 5+30 | ZANE AVE. | - | - | 20 | | |
| PLUG | 4+15 | ZANE AVE. | - | - | 38 | | |
| MH 3 | 4+05 | ZANE AVE. | 885.98 | 873.74 | | 140 | MH 2 |
| MH 4 | 2+86 | ZANE AVE. | 885.21 | 874.32 | | 119 | MH 3 |
| MH 5 | 1+70 | ZANE AVE. | 885.17 | 874.88 | | 115 | MH 4 |
| MH 6 | -0+50 | ZANE AVE. | 890.48 | 882.44 | | 220 | MH 5 |
| MH 7 | -3+14 | YALE ST. | 896.13 | 887.82 | | 265 | MH 6 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TOTAL | | | | | 58 | 1,077 | |

| CLEAR & GRUB | | | |
|--------------|------------|----------------|------------------------|
| STATION | TREE/WOODS | OFFSET (LT/RT) | AREA OR SIZE |
| 6+40 TO 6+70 | WOODS | LT/RT | 0.08 AC. |
| 6+00 TO 6+50 | TREE | RT | - |
| 6+85 TO 6+13 | WOODS | LT/RT | 0.04 AC. |
| 5+70 | TREE | LT | - |
| 2+25 | TREE | LT | - |
| 1+75 | TREE | LT | - |
| 0+42 | TREE | LT/RT | - |
| 0+37 | TREE | LT/RT | - |
| | | | |
| TOTAL | | | 32 TREES 0.10 ACRES |

| WATERMAIN SCHEDULE | | | | | |
|--------------------|-------------|---------------------|--------------------------|--------------------------|------------------------|
| STATION | LOCATION | CONNECT TO EX EA | 6" - DIP WATERMAIN ft | 8" - DIP WATERMAIN ft | HYDRANT W/ VALVE EA |
| -3+00 to -1+00 | YALE STREET | | 10 | 200 | 1 |
| -1+00 to 4+50 | ZANE AVENUE | | 16 | 545 | 1 |
| -0+52 | ZANE AVENUE | | | 46 | |
| 4+50 to 7+74 | ZANE AVENUE | | 16 | 325 | 1 |
| 4+25 | ZANE AVENUE | | | 34 | |
| 5+40 | ZANE AVENUE | | | 34 | |
| TOTAL | | 1 | 42 | 1,184 | 3 |

| UTILITIES | | | | |
|-------------|-----------------------|----------------------------------|-------------------------------|--------------|
| PLAN SYMBOL | ITEM IN PLACE | REMARKS | OWNERSHIP | PHONE |
| ELEC | UNDERGROUND ELECTRIC | VERIFY LOCATION | ELK RIVER MUNICIPAL UTILITIES | 763-441-2020 |
| TELE | UNDERGROUND TELEPHONE | RELOCATED | NORTH STAR ACCESS | 763-546-6188 |
| GAS | UNDERGROUND GAS | VERIFY LOCATION | MINNEGASCO | 612-321-5426 |
| PPQ | POWER POLE | RELOCATE AS DIRECTED BY ENGINEER | ELK RIVER MUNICIPAL UTILITIES | 763-441-2020 |

THE REMARKS COLUMN IS BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES BY CONSTRUCTION. ACTUAL DETERMINATION WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

**RECORD PLAN
DECEMBER 2002**

DESIGNED BY: KJT DRAWN BY: RKM
 APPROVED: TJM JOB NUMBER 806550J
 CAD DATE: January 9, 2002 11:59:13 a.m.
 CAD FILE: 815640\MISC\815640-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: _____
 TERRY J. MAUBER LIC. 15316

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

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

**ZANE AVENUE
 CITY OF ELK RIVER**

ESTIMATED QUANTITIES
SP. 7101-56

SHEET NO.
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