

EXHIBIT B

DITCH TRANSFER
 ENGINEERING REPORT
 OCTOBER 24, 2003
 County Ditch 28-9
 Ulysses Street/Rosewood Addition

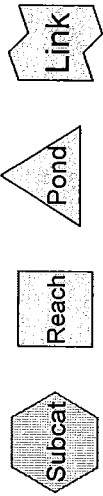
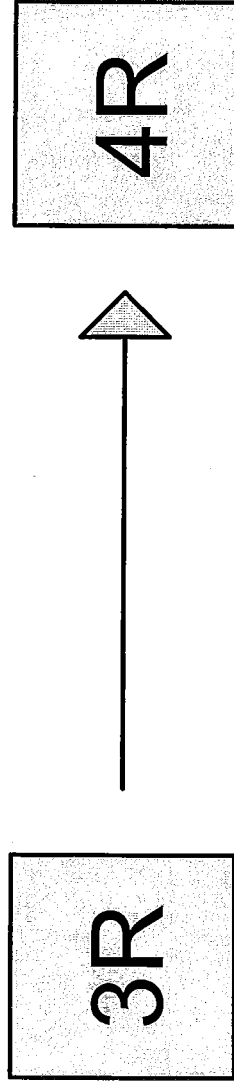
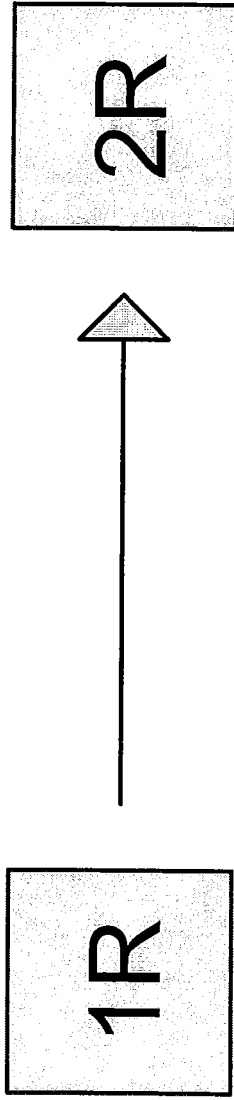
The Ditch Plan and the Ditch Profile show the extend of the work to be done on the ditch. The Ditch Plan shows the drainage easement for the proposed ditch and storm drain per the Rosewood Addition Plat.

The attached HydroCAD hydraulic capacity calculations by RFC Engineering dated October 23, 2003 show the hydraulic capacity of the existing ditch, the existing driveway culvert, the proposed channel and the proposed storm drain. Also attached are drainage maps and HydroCAD drainage calculations by Plowe Engineering of the existing ditch and of the proposed ditch for the 2-year, 10-year and 100-year storm events. The calculations were printed by RFC Engineering. Both the Plans and the drainage calculations have been approved by Anoka County Engineering Department.

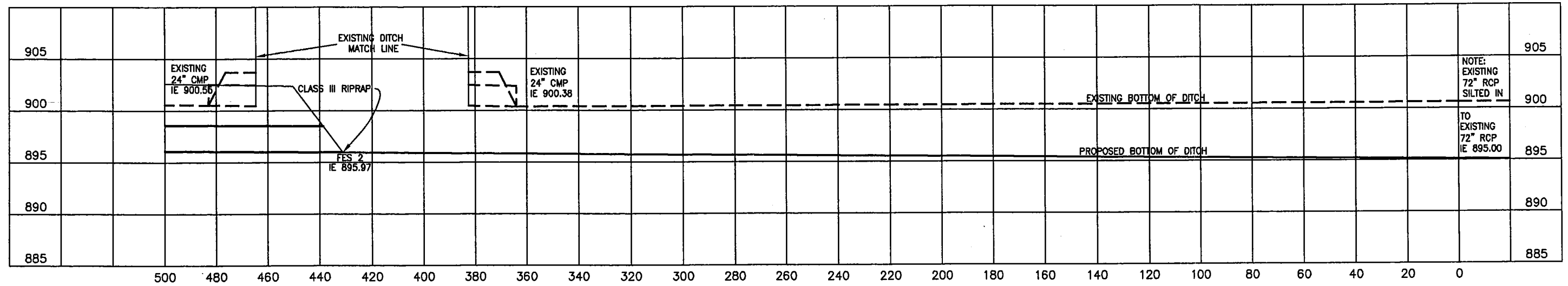
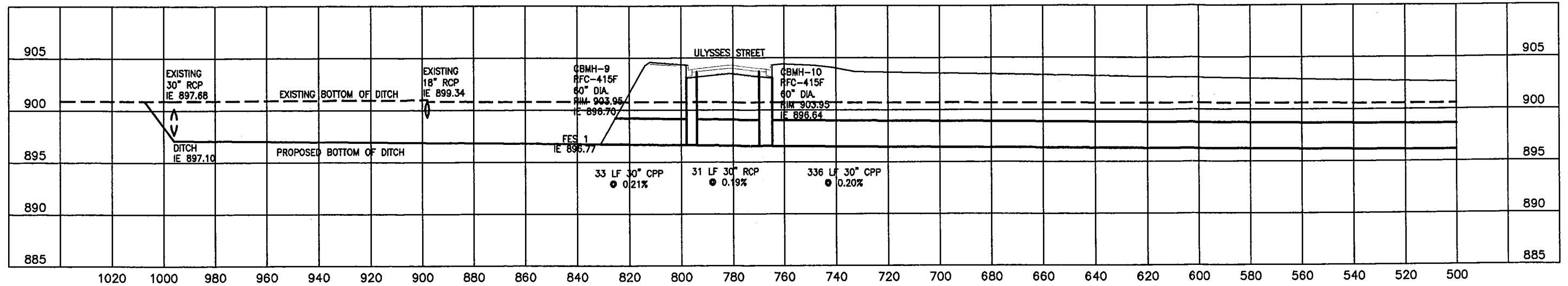
Summary of the drainage calculations are as follows:

EXISTING CONDITIONS			
AT UP-STREAM OF	2-Year Event peak cfs/peak elev	10-Year Event peak cfs/peak elev	100-Year Event peak cfs/peak elev
181 ST AVE 30" RCP (416)	5.7/901.0	15.2/902.0	17.1/902.7
181 ST AVE 18" RCP (PBY)	0.3/901.2	1.6/901.7	3.4/902.2
NW WETLAND (EXWA)	0.3/900.9	3.1/901.7	25.8/902.2
24" CMP CULVERT (29)	6.1/900.9	14.3/901.7	17.8/902.2
72" RCP CULVERT (EXWB)	10.1/900.7	33.9/900.8	63.8/900.7

PROPOSED CONDITIONS			
AT UP-STREAM OF	2-Year Event peak cfs/peak elev	10-Year Event peak cfs/peak elev	100-Year Event peak cfs/peak elev
181 ST AVE 30" RCP (416)	6.0/900.9	15.6/902.0	17.8/902.7
181 ST AVE 18" RCP (PBY)	0.4/901.2	1.6/901.6	3.2/902.1
NW WETLAND (WA)	0.3/900.9	3.5/901.6	26.3/902.1
30" STORM DRAIN (29)	6.9/900.9	16.2/901.6	20.2/902.1
72" RCP CULVERT (WC)	8.4/900.7	33.5/900.8	59.1/900.9



Drainage Diagram for ROSEWOOD DITCH CAPACITY
Prepared by RFC ENGINEERING, INC. 10/23/2003
HydroCAD® 6.00 s/n 001349 © 1986-2001 Applied Microcomputer Systems



SURVEY BY
E. G. RUD &
SONS

DATE	REVISION

I HEREBY CERTIFY THAT THIS PLAN 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. _____

RFC ENGINEERING, INC.
Consulting Engineers

13635 Johnson Street
Ham Lake, MN 55304
Telephone 763-862-8000
Fax 763-862-8042

CITY OF HAM LAKE, MINNESOTA
EXHIBIT B
DITCH PROFILES

DWG: 0215 DITCH PROFILE
DATE: 10/23/03
JOB NUMBER: 0215
SHEET: 1 of 1
FILE: 30-2-077

DESIGN BY: TFH DRAWN BY: TFH CHECKED BY: TPC