



DuPage Water Commission

600 E. Butterfield Road, Elmhurst, IL 60126-4642
(630)834-0100 Fax: (630)834-0120

NOTICE IS HEREBY GIVEN THAT THE RESCHEDULED DECEMBER 2002 ENGINEERING COMMITTEE MEETING OF THE DU PAGE WATER COMMISSION WILL BE HELD AT 8:00 A.M. ON THURSDAY, DECEMBER 12, 2002, AT ITS OFFICES LISTED BELOW. THE AGENDA FOR THE RESCHEDULED DECEMBER 2002 REGULAR COMMITTEE MEETING IS AS FOLLOWS:

AGENDA

ENGINEERING & CONSTRUCTION COMMITTEE THURSDAY, DECEMBER 12, 2002 8:00 A.M.

**600 EAST BUTTERFIELD ROAD
ELMHURST, IL 60126**

- I. Roll Call
- II. Approval of Minutes for Committee Meeting of November 14, 2002
- III. Report of Status of Construction/Operations
- IV. Change Orders
 - A. Change Order No. 8: Boiler Replacement Project
 - B. Change Order No. 2: Contract MS-15 (Illinois American Water Company Meter Station 5G)
 - C. Change Order No. 2: Contract TE-5 (Stray Current Corrosion Mitigation System for 72" Transmission Main)
 - D. Change Order No. 15: Contract TW-1 (West Transmission Main)
 - E. Change Order No. 31: Contract TW-2 (West Transmission Main)
- V. Partial Pay Request
 - Progress Payment No. 3: Contract MS-15 (Illinois American Water Company 5G)

All visitors must present a valid drivers license or other government-issued photo identification, sign in at the reception area and wear a visitor badge while at the DuPage Pumping Station.

VI. Final Payments

A. Final Payment No. 7: Boiler Replacement Project

B. Final Payment No. 10: Contract TE-5 (Corrosion Mitigation System, 72" Transmission Main)

C. Final Payment No. 29: Contract TW-1 (West Transmission Main)

VII. Preliminary Discussion Regarding Service to Excluded Units (Batavia, Geneva & North Aurora)

VIII. Five Year Capital Improvement Plan

IX. Adjournment

Board/Agendas/Engineering/Eng0212.doc

DRAFT

**MINUTES OF A MEETING OF THE
ENGINEERING & CONSTRUCTION COMMITTEE
OF THE DU PAGE WATER COMMISSION
HELD ON NOVEMBER 14, 2002**

The meeting was called to order at 7:00 P.M.

Committee members in attendance: R. Benson, W. Mueller, N. Pollock and G. Wilcox

Also in attendance: R. Thorn, R. Martin, E. Nawrocki and D. Eckmann (AB&H)

Commissioner Pollock moved that the Minutes of the September 12, 2002 Engineering Committee be approved. Motion seconded by Commissioner Benson and passed unanimously as follows:

Aye: R. Benson, W. Mueller, N. Pollock and G. Wilcox

Nay: None

The Committee reviewed memoranda regarding the Status of Facilities Construction/Operation dated November 8, 2002 and Status of Pipeline Construction dated November 8, 2002.

Commissioner Tolentino arrived at 7:07 PM.

Commissioner Mueller moved to recommend to the Commission approval of the additional engineering in the amount of \$1,713.04 and approval of Resolution R-43-02 during the Omnibus Vote Agenda.

- Alvord, Burdick & Howson, L.L.C., Project No. D9805, Invoice No. 2002-316 in the amount of \$1,713.04

Motion seconded by Commissioner Tolentino and passed unanimously as follows:

Aye: R. Benson, W. Mueller, N. Pollock and G. Wilcox

Nay: None

Commissioner Tolentino moved to recommend to the Commission approval of the change orders in the amount of \$35,848.56 and approval of Resolution R-42-02 during the Omnibus Vote Agenda.

- A. Change Order No. 7: Boiler Replacement in the amount of \$2,944.80
- B. Change Order No. 28: Contract TW-2 (West Transmission Main) in the amount of \$7,335.00
- C. Change Order No. 29: Contract TW-2 (West Transmission Main) in the amount of \$13,000.00

Minutes 9/13/02 Engineering Meeting

- D. Change Order No. 30: Contract TW-2 (West Transmission Main) in the amount of \$12,568.76

Motion seconded by Commissioner Pollock and passed unanimously as follows:

Aye: R. Benson, W. Mueller, N. Pollock, R. Tolentino and G. Wilcox

Nay: None

Commissioner Mueller moved to recommend to the Commission approval of progress payments in the amount of \$1,198,333.21 as part of the Accounts Payable, subject to submission of all contractually required documentation.

- A. Progress Payment No. 6: Boiler Replacement Project in the amount of \$54,676.18
- B. Progress Payment No. 4: Contract BOV-1 (Blow Off Valve Repair) in the amount of \$283,532.32
- C. Progress Payment No. 2: Contract MS-15 (Illinois American Water Company 5G) in the amount of \$77,526.45
- D. Progress Payment No. 27: Contract TW-2 (West Transmission Main) in the amount of \$782,598.26

Motion seconded by Commissioner Tolentino and passed unanimously as follows:

Aye: R. Benson, W. Mueller, N. Pollock, R. Tolentino and G. Wilcox

Nay: None

Commissioner Benson moved to recommend to the Commission a reduction in retention for Contracts MS-14 and SS-3 and the approval of the progress payments in the total amount of \$152,219.26 as part of the Accounts Payable, subject to submission of all contractually required documentation.

- A. Progress Payment No. 12: Contract MS-14 (Naperville Metering Station 15H) in the amount of \$91,917.77
- B. Progress Payment No. 14: Contract SS-3 (Schaumburg Emergency Connection) in the amount of \$60,301.49

Motion seconded by Commissioner Pollock and passed unanimously as follows:

Aye: R. Benson, W. Mueller, N. Pollock, R. Tolentino and G. Wilcox

Nay: None

Minutes 9/13/02 Engineering Meeting

The Committee reviewed a memorandum dated November 6, 2002 from Chairman Vondra regarding additional committee assignments.

The Committee reviewed a memorandum from the General Manager dated October 31, 2002 regarding water service to Batavia, Geneva and North Aurora.

The Committee meeting was adjourned at 7:30 P.M.

Board/Minutes/Engineering/ENG0211.doc



DuPage Water Commission

MEMORANDUM

TO: General Manager

FROM: Manager of Pipeline Maintenance and Construction

Date: December 6, 2002

SUBJECT: Status of Pipeline Construction

CONTRACT TSW-3/98 SOUTHWEST TRANSMISSION MAIN

The pipeline is in service. An agreement has been reached with the Contractor to repair or replace the defective 48" ROV at Winfield and Butterfield Rds. The Valve has been removed and will be replaced; this process may take up to 5 to 8 months.

Lost Time Accidents to Date 12/06/02 - John Neri Const. Co. - 0

CONTRACT TW-1/98 WEST TRANSMISSION MAIN

Harry W. Kuhn Inc. has completed the pipe installation and has completed restoration punch list items. It is recommended that the Contract be closed out.

Lost Time Accidents to Date 12/06/02 - Harry W. Kuhn Inc. - 0

CONTRACT TW-2/00 WEST TRANSMISSION MAIN

Rossi Contractors has installed 49,399 feet of 48" steel pipe to date with 601 feet of pipe remaining. This is 99% of the pipe to be installed.

Lost Time Accidents to Date 12/06/02 - Rossi Contracting Co. Inc. - 0

CONTRACT TE-5/01 CORROSION MITIGATION SYSTEM

Construction is 100% complete and it is recommended that the Contract be closed out.

Lost Time Accidents to Date 12/06/02 - Cleveland Construction Co. - 0

CONTRACT BOV-1/02 BLOW-OFF VALVE IMPROVEMENTS

Rossi Contracting Co. Inc. has completed 46 blow-off valves to date. This is 13% of the work to be completed.

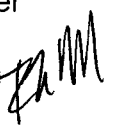
Lost Time Accidents to Date 12/06/02



DuPage Water Commission

MEMORANDUM

TO: General Manager

FROM: Robert L. Martin 

DATE: December 7, 2002

SUBJECT: Status of Operations

Operations Overview

The Commission's sales for the month of November were a total of 2.264 billion gallons. This represents an average day of 75.5 million gallons per day (MGD), which is higher than the November 2001 average day demand of 73.8 MGD. The maximum day demand was 82.0 million gallons (November 28, 2002), which is higher than the November 2001 maximum day of 77.9 million gallons. The minimum day flow was 71.7 million gallons. The Commission recorded a total precipitation for the month of November of 0.75 inches compared to 1.64 inches for November 2001.

Construction Overview

Illinois American Water Company Meter Station 5G, Contract MS-15

The metering station has been put into operation. The contractor is working on punch list items.

Heating System Replacement Project

The heating system has been put into operation. The contractor is working on punch list items.

The following are attachments to this memorandum:

1. DuPage Laboratory Bench Sheet for November, 2002
2. Water Sales Analysis 01-May-99 to 30-November-02
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR NOVEMBER 2002

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	FREE CL ₂ mg/l	TURBIDITY NTU	PO ₄ mg/l	FREE CL ₂ mg/l	TURBIDITY NTU	TEMP °F	pH	Fluoride mg/l	PO ₄ mg/l	P.A.C. LBS/MG	ANALYST INT
1	0.84	0.12	0.45	0.91	0.10	54	7.5	0.9	0.47	0	EM
2	0.81	0.11	0.44	0.91	0.10	54	7.5	0.9	0.47	0	EM
3	0.77	0.11	0.44	0.85	0.10	54	7.5	0.9	0.47	0	EM
4	0.74	0.11	0.47	0.85	0.09	54	7.5	0.9	0.45	0	EM
5	0.76	0.12	0.47	0.86	0.09	54	7.5	0.9	0.45	0	AM
6	0.74	0.12	0.46	0.84	0.09	54	7.5	1.0	0.45	0	AM
7	0.72	0.13	0.48	0.84	0.09	54	7.5	1.0	0.45	0	AM
8	0.76	0.11	0.45	0.89	0.10	54	7.4	1.0	0.43	0	AM
9	0.74	0.11	0.48	0.84	0.09	54	7.4	1.0	0.46	0	KD
10	0.72	0.11	0.48	0.86	0.09	54	7.4	1.0	0.46	0	EM
11	0.74	0.11	0.48	0.86	0.09	52	7.5	1.0	0.46	0	EM
12	0.76	0.10	0.48	0.85	0.08	51	7.5	0.9	0.46	0	CT
13	0.71	0.10	0.47	0.85	0.09	51	7.5	0.9	0.46	0	AM
14	0.77	0.13	0.47	0.87	0.10	51	7.5	1.0	0.46	0	AM
15	0.75	0.13	0.46	0.87	0.09	51	7.5	0.9	0.47	0	CT
16	0.72	0.12	0.48	0.84	0.09	51	7.5	0.9	0.47	0	AM
17	0.73	0.10	0.48	0.81	0.09	51	7.4	1.0	0.45	0	MB
18	0.73	0.10	0.49	0.81	0.09	51	7.4	1.0	0.45	0	MB
19	0.71	0.10	0.49	0.81	0.08	53	7.4	1.0	0.45	0	MB
20	0.76	0.12	0.49	0.79	0.08	53	7.5	1.0	0.45	0	MB
21	0.75	0.11	0.49	0.79	0.10	53	7.5	1.0	0.45	0	CT
22	0.78	0.11	0.49	0.79	0.10	53	7.5	1.0	0.45	0	KD
23	0.77	0.11	0.47	0.82	0.10	52	7.5	1.0	0.45	0	KD
24	0.77	0.13	0.49	0.82	0.10	51	7.5	1.0	0.45	0	KD
25	0.76	0.13	0.49	0.82	0.09	51	7.5	1.0	0.48	0	MB
26	0.78	0.10	0.49	0.81	0.09	49	7.5	1.0	0.45	0	MB
27	0.78	0.11	0.47	0.85	0.09	49	7.5	1.0	0.46	0	CT
28	0.77	0.11	0.48	0.83	0.09	49	7.4	1.0	0.45	0	CT
29	0.76	0.12	0.49	0.82	0.09	49	7.5	1.1	0.45	0	KD
30	0.76	0.12	0.49	0.87	0.10	49	7.5	1.0	0.45	0	KD
31											
AVG	0.76	0.11	0.48	0.84	0.09	52.00	7.48	0.97	0.46	0.00	
MAX	0.84	0.13	0.49	0.91	0.10	54.00	7.50	1.10	0.48	0.00	
MIN	0.71	0.10	0.44	0.79	0.08	49.00	7.40	0.90	0.43	0.00	


TERRANCE MCGHEE
MAINTENANCE SUPERINTENDENT


ROBERT L. MARTIN
MANAGER OF WATER OPERATIONS

DU PAGE WATER COMMISSION
WATER SALES ANALYSIS

01-May-92 TO 30-Nov-02
PER DAY AVERAGE 80,503,831

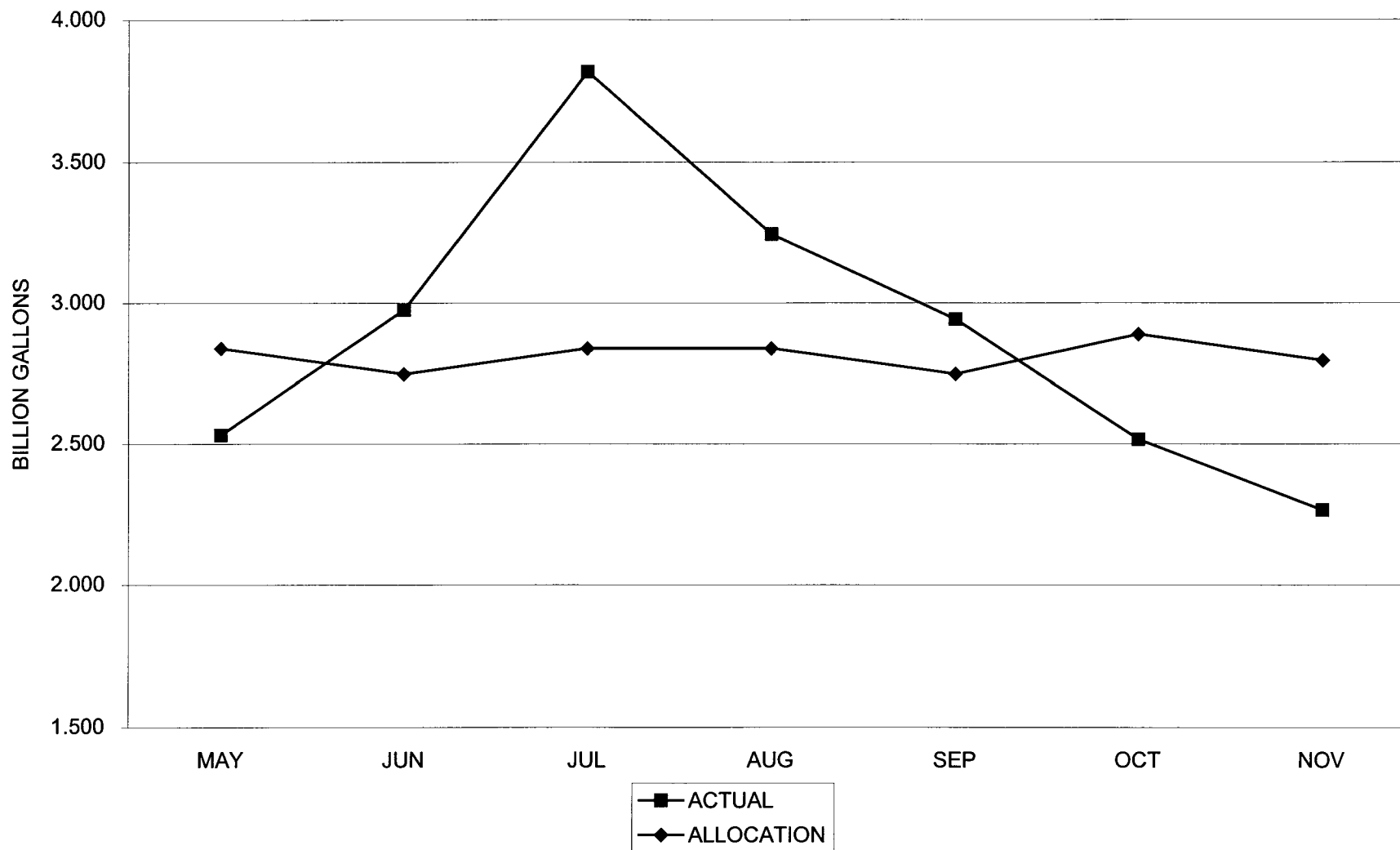
MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FRO CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %
May-99	2,591,032,000	2,694,783,377	96.15%	\$3,420,162.24	\$2,816,896.94	726,300	0.03%	96.18%
Jun-99	2,787,348,000	2,874,895,933	96.95%	\$3,679,299.36	\$3,005,171.26	943,800	0.03%	96.99%
Jul-99	3,424,606,000	3,541,236,084	96.71%	\$4,520,479.92	\$3,701,706.48	1,395,600	0.04%	96.75%
Aug-99	3,238,921,000	3,362,529,956	96.32%	\$4,275,375.72	\$3,514,902.32	3,362,277	0.10%	96.42%
Sep-99	3,093,264,000	3,224,415,734	95.93%	\$4,083,108.48	\$3,370,529.48	4,306,200	0.13%	96.07%
Oct-99	2,521,803,000	2,618,873,670	96.29%	\$3,328,779.96	\$2,737,547.40	2,056,400	0.08%	96.37%
Nov-99	2,356,640,000	2,433,464,566	96.84%	\$3,110,764.80	\$2,543,736.52	1,241,100	0.05%	96.89%
Dec-99	2,408,529,000	2,502,170,070	96.26%	\$3,179,258.28	\$2,615,555.40	2,377,638	0.10%	96.35%
Jan-00	2,433,111,000	2,518,471,169	96.61%	\$3,211,706.52	\$2,736,956.37	825,500	0.03%	96.64%
Feb-00	2,259,787,000	2,325,057,395	97.19%	\$2,982,918.84	\$2,526,763.35	1,207,500	0.05%	97.24%
Mar-00	2,330,484,000	2,417,066,214	96.42%	\$3,076,238.88	\$2,626,754.22	598,400	0.02%	96.44%
Apr-00	2,332,205,000	2,417,664,694	96.47%	\$3,078,510.60	\$2,627,404.62	799,000	0.03%	96.50%
May-00	2,669,079,000	2,757,885,612	96.78%	\$3,523,184.28	\$2,997,140.76	1,063,700	0.04%	96.82%
Jun-00	2,679,123,000	2,765,987,535	96.86%	\$3,536,442.36	\$3,005,945.55	964,900	0.03%	96.89%
Jul-00	3,147,101,000	3,250,023,197	96.83%	\$4,154,173.32	\$3,531,972.81	1,313,300	0.04%	96.87%
Aug-00	3,150,764,000	3,263,518,921	96.54%	\$4,159,008.48	\$3,546,639.33	1,424,700	0.04%	96.59%
Sep-00	2,905,099,000	3,014,700,861	96.36%	\$3,834,730.68	\$3,276,235.53	1,496,600	0.05%	96.41%
Oct-00	2,523,491,000	2,609,574,787	96.70%	\$3,331,008.12	\$2,835,963.51	11,969,523	0.46%	97.16%
Nov-00	2,276,425,000	2,330,256,690	97.69%	\$3,004,881.00	\$2,532,413.70	1,226,800	0.05%	97.74%
Dec-00	2,416,208,000	2,481,365,409	97.37%	\$3,189,394.56	\$2,696,631.57	1,073,000	0.04%	97.42%
Jan-01	2,390,741,000	2,454,238,938	97.41%	\$3,155,778.12	\$2,773,290.00	1,011,300	0.04%	97.45%
Feb-01	2,126,216,000	2,167,739,071	98.08%	\$2,806,605.12	\$2,449,545.15	818,800	0.04%	98.12%
Mar-01	2,311,827,000	2,378,966,637	97.18%	\$3,051,611.64	\$2,688,232.30	3,238,200	0.14%	97.31%
Apr-01	2,291,524,000	2,346,378,053	97.66%	\$3,024,811.68	\$2,651,407.20	784,200	0.03%	97.70%
May-01	2,679,850,000	2,792,321,195	95.97%	\$3,564,200.50	\$3,155,322.95	12,320,840	0.44%	96.41%
Jun-01	2,944,352,000	3,026,438,540	97.29%	\$3,915,988.16	\$3,419,875.55	10,068,050	0.33%	97.62%
Jul-01	3,729,441,000	3,839,156,549	97.14%	\$4,960,156.53	\$4,338,246.90	2,171,700	0.06%	97.20%
Aug-01	3,217,436,000	3,265,655,796	98.52%	\$4,279,189.88	\$3,690,191.05	1,156,800	0.04%	98.56%
Sep-01	2,552,219,000	2,639,772,522	96.68%	\$3,394,451.27	\$2,982,942.95	7,064,124	0.27%	96.95%
Oct-01	2,382,399,000	2,441,347,080	97.59%	\$3,168,590.67	\$2,758,722.20	7,511,120	0.31%	97.89%
Nov-01	2,212,776,000	2,246,511,018	98.50%	\$2,942,992.08	\$2,538,557.45	7,110,473	0.32%	98.81%
Dec-01	2,289,859,000	2,319,285,708	98.73%	\$3,045,512.47	\$2,620,792.85	917,200	0.04%	98.77%
Jan-02	2,320,798,000	2,351,613,013	98.69%	\$3,086,661.34	\$2,763,145.29	1,017,300	0.04%	98.73%
Feb-02	2,101,092,000	2,140,899,881	98.14%	\$2,794,452.36	\$2,515,557.36	1,134,300	0.05%	98.19%
Mar-02	2,282,553,000	2,369,611,940	96.33%	\$3,035,795.49	\$2,784,293.72	18,554,160	0.78%	97.11%
Apr-02	2,279,744,000	2,353,213,915	96.88%	\$3,032,059.52	\$2,765,026.04	1,118,700	0.05%	96.93%
May-02	2,530,549,000	2,620,422,434	96.57%	\$3,390,935.66	\$3,078,996.36	10,740,300	0.41%	96.98%
Jun-02	2,974,993,000	3,064,246,366	97.09%	\$3,986,490.62	\$3,600,489.48	2,949,188	0.10%	97.18%
Jul-02	3,818,677,000	3,928,688,630	97.20%	\$5,117,027.18	\$4,616,209.14	1,407,000	0.04%	97.24%
Aug-02	3,243,485,000	3,347,860,391	96.88%	\$4,346,269.90	\$3,933,735.96	1,155,200	0.03%	96.92%
Sep-02	2,941,334,000	3,026,340,894	97.19%	\$3,941,387.56	\$3,555,950.55	1,130,900	0.04%	97.23%
Oct-02	2,515,785,000	2,551,823,030	98.59%	\$3,371,216.38	\$2,998,392.06	1,354,600	0.05%	98.64%
Nov-02	2,264,094,000	2,328,010,928	97.25%	\$3,034,011.20	\$2,735,412.84	811,900	0.03%	97.29%
TOTALS (1)	311,227,810,000	320,796,073,597	97.02%	\$414,824,219.32	\$335,235,130.75	225,028,843	0.07%	97.09%

(1) - SINCE MAY 1, 1992

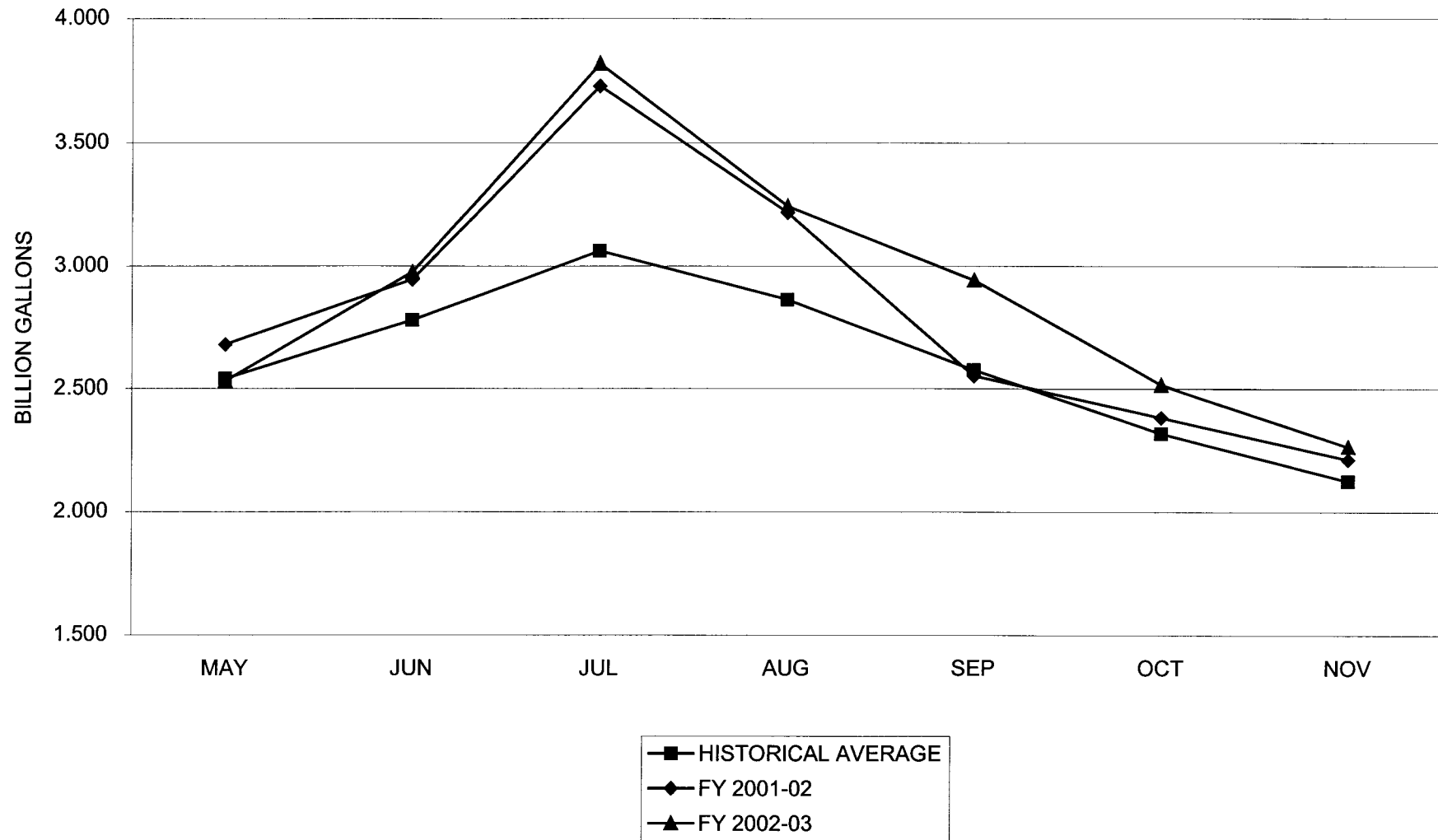
(2) - REPRESENTS DU PAGE PUMP STATION. METER TESTING AND CONSTRUCTION PROJECT USAGE

Operations\Spreadsheets\H2OSALES.xls

**DU PAGE WATER COMMISSION SALES
FY 2002-03 VS. ALLOCATION**



**DU PAGE WATER COMMISSION SALES
FY 2002-03 VS. HISTORICAL AVERAGE**



CHANGE ORDER

THE DU PAGE WATER COMMISSION

SHEET 1 OF 2

PROJECT NAME: Boiler Replacement

CHANGE ORDER NO. 8

LOCATION: DuPage Pumping Station

CONTRACTOR: G.F. Connelly Mechanical

DATE: November 25, 2002

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. Providing and installing readout valves at unit heaters.
2. Providing additional programming for building humidity.
3. Providing and installing two access doors at fire rated enclosure.

B. REASON FOR CHANGE:

1. Necessary replacements in order to balance hot water system.
2. Provide modulating controls system to monitor and adjust building humidity.
3. Access necessary to maintain ductwork accessories in fire rated enclosure.

C. REVISION IN PRICE:

1. \$ 1,244.00
2. \$ 3,261.40
3. \$ 619.85

Total \$ 5,125.25

II. CHANGE ORDER CONDITIONS:

1. The Contract completion date established in the Original Contract or as modified by previous Change Orders remains November 29, 2002.
2. Any additional work to be performed under this Change Order shall be carried out in compliance with the Contract Specifications for the Boiler Replacement and Related Construction Work and revised Contract Drawings attached hereto and under the provisions of the Original Contract, including compliance with applicable Equipment Specifications, General Specifications, and Project Specifications for the same type of work.
3. This Change Order, unless otherwise provided herein, does not relieve the Contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.

SHEET 2 OF 2
CHANGE ORDER NO. 8

4. The Contractor expressly agrees he will place under coverage of his Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order.

III. ADJUSTMENTS IN AMOUNT OF CONTRACT:

1.	Amount of Original Contract	\$	465,924.00
2.	Net Change Due To Previous Change Orders	\$	18,738.69
3.	Amount of Contract, Not Including This Change Order	\$	484,707.69
4.	Addition to Contract Due To This Change Order	\$	5,125.25
5.	Amount of Contract Including This Change Order	\$	489,832.94

RECOMMENDED FOR ACCEPTANCE: Primera

BY: _____ (_____)
Signature of Authorized Representative Date

ACCEPTED: CONTRACTOR: G.F. Connelly Mechanical Contractors

BY: _____ (_____)
Signature of Authorized Representative Date

DU PAGE WATER COMMISSION:

BY: _____ (_____)
James J. Holzwart Date
General Manager

CHANGE ORDER

THE DU PAGE WATER COMMISSION

SHEET 1 OF 2

PROJECT NAME: Meter Station 5G

CHANGE ORDER NO. 2

LOCATION: Glen Ellyn, IL

Contract: MS-15/01

CONTRACTOR: Genco Industries, Inc.

DATE: November 25, 2002

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. Additional rough & final grading, installation of sod at areas disturbed by this project and other projects by Illinois-American Water Co.

B. REASON FOR CHANGE:

1. Requested work by Illinois-American not part of this Contract.

C. REVISION IN PRICE:

1. \$5,661.20

This Change Order to be reimbursed by Illinois American Water Company.

II. CHANGE ORDER CONDITIONS:

1. The Contract completion date established in the Original Contract or as modified by previous Change Orders remains December 16, 2002.
2. Any additional work to be performed under this Change Order shall be carried out in compliance with the Contract Specifications for MS-15/01 and revised Contract Drawings attached hereto and under the provisions of the Original Contract, including compliance with applicable Equipment Specifications, General Specifications, and Project Specifications for the same type of work.
3. This Change Order, unless otherwise provided herein, does not relieve the Contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.
4. The Contractor expressly agrees he will place under coverage of his Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order.

III. ADJUSTMENTS IN AMOUNT OF CONTRACT:

1.	Amount of Original Contract	\$	148,800.00
2.	Net Change Due To Previous Change Orders	\$	13,574.00
3.	Amount of Contract, Not Including This Change Order	\$	162,374.00
4.	Addition to Contract Due To This Change Order	\$	5,661.20
5.	Amount of Contract Including This Change Order	\$	168,035.20

RECOMMENDED FOR ACCEPTANCE: Consoer Townsend Envirodyne

BY: _____ (_____)
Signature of Authorized Representative Date

ACCEPTED: CONTRACTOR: Genco Industries, Inc.

BY: _____ (_____)
Signature of Authorized Representative Date

DU PAGE WATER COMMISSION:

BY: _____ (_____)
James J. Holzwart
General Manager Date

`CHANGE ORDER

THE DUPAGE WATER COMMISSION

SHEET 1 OF 4

PROJECT NAME: Stray Current Corrosion Mitigation
System for 72" Transmission Main

CHANGE ORDER NO. 2

LOCATION: Dunlop Avenue at Roosevelt Road

CONTRACT NO. TE-5/01

CONTRACTOR: R. Cleveland U.G. Technologies

DATE: NOV. 25, 2002

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. Final balancing change order.
2. Extension of Contract completion date by 96 calendar days.

B. REASON FOR CHANGE:

1. To reflect the quantities actually installed.
2. Delay in acquisition of Site no.1 was beyond the Contractor's control

C. REVISION IN PRICE:

Amend Quantity of Item No. 7, 9, 10, 11, 12, 13, 14, 16, 18, 19 & 20.

Total Deduction(See page no. 2)

(\$24,215.70)

Total (\$24,215.70)

CORR. MITI. SYSTEM, 72" TRANS. MAIN

TE-5/01

SHEET 2 OF 4
CHANGE ORDER NO. 2

R. CLEVELAND U.G. TECH. CORP
95 CENTER DRIVE
GILBERTS, ILLINOIS 60136

FINAL BALANCING CHANGE ORDER

#	ITEM	ORIGINAL CONTRACT		UNIT PRICE	ORIGINAL CONTRACT		AMENDED CONTRACT		FINAL		FINAL			
		QUANTITY	UNIT		PRICE	QUANTITY	PRICE	CURRENT QUANTITY	TO DATE EXTENSION	BALANCING ORDER QUANTITY	ORDER EXTENSION			
7	INSTALLATION OF BONDING CABLES	9.00	EA.	\$4,900.00	\$44,100.00	9.00	\$44,100.00	10.00	\$49,000.00	1.00	4,900.00		4,900.00	
9	EXTENSION OF ANODE COLUMN	20.00	L.F.	\$35.00	\$700.00	20.00	\$700.00	24.00	\$840.00	4.00	140.00		140.00	
10	ADDITIONAL ANODE SEGMENT	5.00	EA.	\$500.00	\$2,500.00	5.00	\$2,500.00	2.00	\$1,000.00	(3.00)	(1,500.00)	(1,500.00)		
11	ADDITIONAL ANODE COLUMN	5.00	EA.	\$3,000.00	\$15,000.00	5.00	\$15,000.00	4.00	\$12,000.00	(1.00)	(3,000.00)	(3,000.00)		
12	ADD. DIRECTIONALLY DRILLED COND.	200.00	L.F.	\$75.00	\$15,000.00	200.00	\$15,000.00	240.00	\$18,000.00	40.00	3,000.00		3,000.00	
13	ADD. 500MCM CABLE, IN CONDUIT	200.00	L.F.	\$8.75	\$1,750.00	200.00	\$1,750.00	0.00	\$0.00	(200.00)	(1,750.00)	(1,750.00)		
14	ADD. #2 AWG CABLE, DIRECT BURY	1,000.00	L.F.	\$5.85	\$5,850.00	1,000.00	\$5,850.00	0.00	\$0.00	(1,000.00)	(5,850.00)	(5,850.00)		
16	ADD. #6 AWG CABLE, DIRECT BURY	1,000.00	L.F.	\$5.65	\$5,650.00	1,000.00	\$5,650.00	0.00	\$0.00	(1,000.00)	(5,650.00)	(5,650.00)		
18	ADD. #10 AWG CABLE, DIRECT BURY	1,000.00	L.F.	\$5.45	\$5,450.00	1,000.00	\$5,450.00	54.00	\$294.30	(946.00)	(5,155.70)	(5,155.70)		
19	ADD. 3-CND. SHIELD. CABLE, IN COND.	200.00	L.F.	\$6.25	\$1,250.00	200.00	\$1,250.00	240.00	\$1,500.00	40.00	250.00		250.00	
20	REPLACEMENT TEST STATION	5.00	EA.	\$4,800.00	\$24,000.00	4.00	\$19,200.00	2.00	\$9,600.00	(2.00)	(9,600.00)	(9,600.00)		
												(24,215.70)	(32,505.70)	8,290.00

CHANGE ORDER NO. 2

II. CHANGE ORDER CONDITIONS:

1. The Contract completion date established in the Original Contract or as modified by previous Change Orders is hereby extended by 96 calendar days, making the final completion date November 22, 2002.
2. Any additional work to be performed under this Change Order shall be carried out in compliance with the specifications included in the preceding Description of Changes Involved, with the Supplemental Contract Drawings designated as Stray Current Corrosion Mitigation System for 72" Transmission Main, and under the provisions of the Original Contract, including compliance with applicable Equipment Specifications, General Specifications, and Project Specifications for the same type of work.
3. This Change Order unless otherwise provided herein does not relieve the contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.
4. The Contractor expressly agrees he will place under coverage of his Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order. The Contractor will furnish to the Owner evidence of increased coverage of his Performance and Payment Bonds for the accrued value of all Change Orders which exceeds the Original Contract Price by twenty percent (20%).

CHANGE ORDER NO. 2

III. ADJUSTMENTS IN AMOUNT OF CONTRACT:

1.	Amount of Original Contract	<u>\$844,340.00</u>
2.	Net change due to previous Change Order no. 1	<u>\$228.22</u>
3.	Amount of Contract, not including this Change Order	<u>\$844,568.22</u>
4.	Addition to Contract due to this Change Order	<u>(\$24,215.70)</u>
5.	Amount of Contract including this Change Order	<u>\$820,352.52</u>

RECOMMENDED FOR ACCEPTANCE: _____ (_____)
For Alvord, Burdick, & Howson Date
Consulting Engineers

ACCEPTED CONTRACTOR: R. Cleveland U.G. Tech. Corp

BY: _____ (_____)
Signature of Date
Authorized Representative

DUPAGE WATER COMMISSION:

BY: _____ (_____)
James J. Holzwart Date
General Manager

CHANGE ORDER

THE DUPAGE WATER COMMISSION

SHEET 1 OF 4

PROJECT NAME: West Transmission Main

CHANGE ORDER NO. 15

LOCATION: 75TH Street to Diehl Road

CONTRACT NO. TW-1

CONTRACTOR: Harry W. Kuhn, Inc.

DATE: NOV. 21, 2002

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. Final balancing change order.
2. Extension of Contract completion date by 403 calendar days.

B. REASON FOR CHANGE:

1. To reflect the quantities actually installed.
2. The Contract work was essentially complete and DWC took beneficial occupancy of the 48" water main in 2001. However punch list work, various claims and utility issues prolonged closing of the Contract.

C. REVISION IN PRICE:

Revised Line Item Quantities

Total Deduction (See page no. 2)

(\$87,254.83)

Total (\$87,254.83)

DE PAUL VAPEN COMMISSION

Flowchart illustrating the study design.

154

HARRY W. KUNN CONST. CO. INC.
P.O. BOX 248
WILMINGTON, N. C. 28402-0248

SHEET 2 OF 4
CHANGE ORDER NO. 16

F. N. A. L. E. A. L. A. L. E. N. D. C. H. A. M. S. E. C. P. O. P. O. L. I. T. I. C. A. N. A.

[illegible]

II. CHANGE ORDER CONDITIONS:

1. The Contract completion date established in the Original Contract or as modified by previous Change Orders is hereby extended by 403 calendar days, making the final completion date November 22, 2002.
2. Any additional work to be performed under this Change Order shall be carried out in compliance with the specifications included in the preceding Description of Changes Involved, with the Supplemental Contract Drawings designated as West Transmission Main, and under the provisions of the Original Contract, including compliance with applicable Equipment Specifications, General Specifications, and Project Specifications for the same type of work.
3. This Change Order unless otherwise provided herein does not relieve the contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.
4. The Contractor expressly agrees he will place under coverage of his Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order. The Contractor will furnish to the Owner evidence of increased coverage of his Performance and Payment Bonds for the accrued value of all Change Orders, which exceeds the Original Contract Price by twenty percent (20%).

CHANGE ORDER NO. 15

III. ADJUSTMENTS IN AMOUNT OF CONTRACT:

1.	Amount of Original Contract	<u>\$9,651,519.00</u>
2.	Net change due to previous Change Orders No.1 to 14	<u>(\$236,864.73)</u>
3.	Amount of Contract, not including this Change Order	<u>\$9,414,654.27</u>
4.	Deduction to Contract due to this Change Order	<u>(\$87,254.83)</u>
5.	Amount of Contract including this Change Order	<u>\$9,327,399.44</u>

RECOMMENDED FOR ACCEPTANCE: ()
For Alvord, Burdick, & Howson Date
Consulting Engineers

ACCEPTED CONTRACTOR: Harry W. Kuhn, Inc.

BY: _____ ()
Signature of Date
Authorized Representative

DUPAGE WATER COMMISSION:
BY: _____ ()
James J. Holzwart Date
General Manager

CHANGE ORDER

THE DUPAGE WATER COMMISSION

SHEET 1 OF 4

PROJECT NAME: West Transmission Main

CHANGE ORDER NO. 31

LOCATION: Butterfield Road To Kuhn Road

CONTRACT NO. TW-2

CONTRACTOR: Rossi Contractors

DATE: November 25, 2002

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. Reduce the scope of Winfield Additional Work as requested by the Village of Winfield by their letter dated November 14, 2002 to DuPage water Commission. The installation of 12" water main and appurtenances on St. Charles Road from North Avenue to County Farm road is deleted from the Contract.

B. REASON FOR CHANGE:

1. The Village of Winfield revised the plans for installation of 12" water main and appurtenances on St. Charles Road during the process of obtaining permit from the DuPage County Division of Transportation. The Contractor and the Village of Winfield could not reach an agreement regarding the additional cost for the revised scope of Winfield Additional Work from North Avenue to County farm Road. Meanwhile, the Commission's 48" main was installed and the street restored from North Avenue to County farm road. The Village decided to delete the 12" water main and appurtenance on St. Charles road from North Avenue to County Farm Road. As a result, plan quantity of the original Items 84O through 84R are amended to zero each.

C. REVISION IN PRICE:

UNIT PRICE:

DEDUCTION:

1. Item84O 12" DIP Water Main 4230LF @ \$55.59/LF
(\$235,145.70)
2. Item84P 12" Gate Valve & Vault 2EA @ \$2,500.00/EA
(\$5,000.00)
3. Item84Q Fire Hyd. w/ Aux. Valve 2EA @ \$2,500.00/EA
(\$5,000.00)
5. Item84R Asphalt Pavt. R & R 1,400.00SY @ \$34.00/SY
(\$47,600.00)

Total (\$292,745.70)

CHANGE ORDER NO. 31

II. CHANGE ORDER CONDITIONS:

1. The Contract completion date established in the Original Contract or as modified by previous Change Orders is hereby extended by 0 calendar days, making the final completion date January 21, 2003.
2. Any additional work to be performed under this Change Order shall be carried out in compliance with the specifications included in the preceding Description of Changes Involved, with the Supplemental Contract Drawings designated as West Transmission Main, and under the provisions of the Original Contract, including compliance with applicable Equipment Specifications, General Specifications, and Project Specifications for the same type of work.
3. This Change Order unless otherwise provided herein does not relieve the contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.
4. The Contractor expressly agrees he will place under coverage of his Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order. The Contractor will furnish to the Owner evidence of increased coverage of his Performance and Payment Bonds for the accrued value of all Change Orders, which exceeds the Original Contract Price by twenty percent (20%).

CHANGE ORDER NO. 31

III. ADJUSTMENTS IN AMOUNT OF CONTRACT:

1.	Amount of Original Contract	<u>\$17,476,112.15</u>
2.	Net change due to previous Change Orders No.1 to 30	<u>\$758,582.13</u>
3.	Amount of Contract, not including this Change Order	<u>\$18,234,694.28</u>
4.	Addition to Contract due to this Change Order	<u>(\$292,745.70)</u>
5.	Amount of Contract including this Change Order	<u>\$17,941,948.58</u>

RECOMMENDED FOR ACCEPTANCE:

BY: _____ (_____)
For Alvord, Burdick, & Howson Date
Consulting Engineers

ACCEPTED: Village of Winfield

BY: _____ (_____)
Signature of Authorized Representative Date

ACCEPTED BY CONTRACTOR: Rossi Contractors

BY: _____ (_____)
Signature of Authorized Representative Date

DUPAGE WATER COMMISSION:

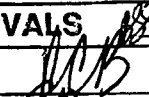
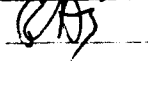
BY: _____ (_____)
James J. Holzwart Date
General Manager

DU PAGE WATER COMMISSION
METER STATION 05G (MS-15)

GENCO INDUSTRIES, INC.
13610 S. KENTON AVE.
CRESTWOOD, IL 60445

PAYMENT # 3
DATE 12/02/02
ACCOUNT # AMOUNT
WF-7100 (MS) \$33,026.20
WF-1398 IAWW \$33,026.20
WF-5900 IAWW (\$33,026.20)
WF-3520 (RET) (\$3,302.62)
WF-3700 (DED) \$0.00

#	ITEM	ORIGINAL CONTRACT QUANTITY	UNIT	UNIT PRICE	ORIGINAL CONTRACT PRICE	AMENDED CONTRACT QUANTITY	AMENDED CONTRACT PRICE	CURRENT TO DATE QUANTITY	EXTENSION	PREVIOUS PAYMENT QUANTITY	EXTENSION	THIS PAYMENT QUANTITY	EXTENSION	CONTRACT BALANCE QUANTITY	EXTENSION
	CONTRACT SUB-TOTALS				\$148,800.00 =====		\$168,035.20 =====		\$168,035.20		\$135,009.00		\$33,026.20		\$0.00
	RETENTION	10.000%							(\$16,803.52)		(\$13,500.90)		(\$3,302.62)		\$16,803.52
	CONTRACT TOTALS								\$151,231.68		\$121,508.10		\$29,723.58		\$16,803.52 =====
	1X EXCESS ENGINEERING COSTS		HRS.	(\$75.00)				0.00	\$0.00	0.00	\$0.00	0.00	\$0.00		
	2X ADMINISTRATIVE DAMAGES		DAYS	(\$500.00)				0.00	\$0.00	0.00	\$0.00	0.00	\$0.00		
	TOTAL DEDUCTS								\$0.00		\$0.00		\$0.00		
	NET PAYMENT TO CONTRACTOR								\$151,231.68 =====		\$121,508.10 =====		\$29,723.58 =====		
	CHANGE ORDER PERCENTAGE								12.93%						

STAFF APPROVALS	
ENGINEERING	
ACCOUNTING	

DU PAGE WATER COMMISSION
METER STATION 05G

(MS-15)

GENCO INDUSTRIES, INC.
13610 S. KENTON AVE.
CRESTWOOD, IL 60445

PAYMENT #	3
DATE	12/02/02
ACCOUNT #	AMOUNT
WF-7100 (MS)	\$33,026.20
WF-1398 IAWW	\$33,026.20
WF-5900 IAWW	(\$33,026.20)
WF-3520 (RET)	(\$3,302.62)
WF-3700 (DED)	\$0.00

#	ITEM	ORIGINAL CONTRACT QUANTITY	UNIT	UNIT PRICE	ORIGINAL CONTRACT PRICE	AMENDED CONTRACT QUANTITY	AMENDED CONTRACT PRICE	CURRENT TO DATE QUANTITY	EXTENSION	PREVIOUS PAYMENT QUANTITY	EXTENSION	THIS PAYMENT QUANTITY	EXTENSION	CONTRACT BALANCE QUANTITY	EXTENSION
METERING STATION 17A															
1	INSURANCE	100.00%	L.S.	\$9,500.00	\$9,500.00	100.00%	\$9,500.00	100.00%	\$9,500.00	100.00%	\$9,500.00	0.00%	\$0.00	0.00%	\$0.00
2	GENERAL CONDITIONS	100.00%	L.S.	\$3,500.00	\$3,500.00	100.00%	\$3,500.00	100.00%	\$3,500.00	50.00%	\$1,750.00	50.00%	\$1,750.00	0.00%	\$0.00
3	EXCAVATION & BACKFILL	100.00%	L.S.	\$8,500.00	\$8,500.00	100.00%	\$8,500.00	100.00%	\$8,500.00	100.00%	\$8,500.00	0.00%	\$0.00	0.00%	\$0.00
4	CONCRETE STRUCTURE	100.00%	L.S.	\$27,500.00	\$27,500.00	100.00%	\$27,500.00	100.00%	\$27,500.00	100.00%	\$27,500.00	0.00%	\$0.00	0.00%	\$0.00
5	SIDEWALK	100.00%	L.S.	\$950.00	\$950.00	100.00%	\$950.00	100.00%	\$950.00	0.00%	\$0.00	100.00%	\$950.00	0.00%	\$0.00
6	EXTERIOR WATERPROOFING	100.00%	L.S.	\$950.00	\$950.00	100.00%	\$950.00	100.00%	\$950.00	100.00%	\$950.00	0.00%	\$0.00	0.00%	\$0.00
7	HATCHES	100.00%	L.S.	\$2,600.00	\$2,600.00	100.00%	\$2,600.00	100.00%	\$2,600.00	100.00%	\$2,600.00	0.00%	\$0.00	0.00%	\$0.00
8	STAIR	100.00%	L.S.	\$2,150.00	\$2,150.00	100.00%	\$2,150.00	100.00%	\$2,150.00	100.00%	\$2,150.00	0.00%	\$0.00	0.00%	\$0.00
9	SUMP PUMP	100.00%	L.S.	\$650.00	\$650.00	100.00%	\$650.00	100.00%	\$650.00	100.00%	\$650.00	0.00%	\$0.00	0.00%	\$0.00
10	VENTILATION	100.00%	L.S.	\$3,800.00	\$3,800.00	100.00%	\$3,800.00	100.00%	\$3,800.00	0.00%	\$0.00	100.00%	\$3,800.00	0.00%	\$0.00
11	DEHUMIDIFICATION	100.00%	L.S.	\$750.00	\$750.00	100.00%	\$750.00	100.00%	\$750.00	100.00%	\$750.00	0.00%	\$0.00	0.00%	\$0.00
12	INTERIOR PIPING	100.00%	L.S.	\$17,500.00	\$17,500.00	100.00%	\$17,500.00	100.00%	\$17,500.00	100.00%	\$17,500.00	0.00%	\$0.00	0.00%	\$0.00
13	PIPE SUPPORTS	100.00%	L.S.	\$900.00	\$900.00	100.00%	\$900.00	100.00%	\$900.00	100.00%	\$900.00	0.00%	\$0.00	0.00%	\$0.00
14	PAINTING - PIPING	100.00%	L.S.	\$3,200.00	\$3,200.00	100.00%	\$3,200.00	100.00%	\$3,200.00	100.00%	\$3,200.00	0.00%	\$0.00	0.00%	\$0.00
15	LEAK TESTING & DISINFECTION	100.00%	L.S.	\$1,500.00	\$1,500.00	100.00%	\$1,500.00	100.00%	\$1,500.00	100.00%	\$1,500.00	0.00%	\$0.00	0.00%	\$0.00
16	UTILITY SERVICE ENTRANCE	100.00%	L.S.	\$3,300.00	\$3,300.00	100.00%	\$3,300.00	100.00%	\$3,300.00	100.00%	\$3,300.00	0.00%	\$0.00	0.00%	\$0.00
17	LIGHTING FIXTURES	100.00%	L.S.	\$1,450.00	\$1,450.00	100.00%	\$1,450.00	100.00%	\$1,450.00	0.00%	\$0.00	100.00%	\$1,450.00	0.00%	\$0.00
18	LIGHTING PANEL	100.00%	L.S.	\$3,250.00	\$3,250.00	100.00%	\$3,250.00	100.00%	\$3,250.00	100.00%	\$3,250.00	0.00%	\$0.00	0.00%	\$0.00
19	RECEPTACLES/SWITCHES	100.00%	L.S.	\$1,100.00	\$1,100.00	100.00%	\$1,100.00	100.00%	\$1,100.00	0.00%	\$0.00	100.00%	\$1,100.00	0.00%	\$0.00
20	CONDUITS & BOXES	100.00%	L.S.	\$6,500.00	\$6,500.00	100.00%	\$6,500.00	100.00%	\$6,500.00	0.00%	\$0.00	100.00%	\$6,500.00	0.00%	\$0.00
21	CONTROL DEVICE INSTALLATIO	100.00%	L.S.	\$1,100.00	\$1,100.00	100.00%	\$1,100.00	100.00%	\$1,100.00	0.00%	\$0.00	100.00%	\$1,100.00	0.00%	\$0.00
22	UNIT HEATERS & THERMOSTAT	100.00%	L.S.	\$3,200.00	\$3,200.00	100.00%	\$3,200.00	100.00%	\$3,200.00	0.00%	\$0.00	100.00%	\$3,200.00	0.00%	\$0.00
23	SUMP PUMP PANEL	100.00%	L.S.	\$3,300.00	\$3,300.00	100.00%	\$3,300.00	100.00%	\$3,300.00	0.00%	\$0.00	100.00%	\$3,300.00	0.00%	\$0.00
24	ANTENNA CONDUIT	100.00%	L.S.	\$6,600.00	\$6,600.00	100.00%	\$6,600.00	100.00%	\$6,600.00	100.00%	\$6,600.00	0.00%	\$0.00	0.00%	\$0.00
25	ANTENNA	100.00%	L.S.	\$14,500.00	\$14,500.00	100.00%	\$14,500.00	100.00%	\$14,500.00	83.00%	\$12,035.00	17.00%	\$2,465.00	0.00%	\$0.00
26	ANTENNA BASE	100.00%	L.S.	\$2,800.00	\$2,800.00	100.00%	\$2,800.00	100.00%	\$2,800.00	100.00%	\$2,800.00	0.00%	\$0.00	0.00%	\$0.00
27	DOOR SWITCHES	100.00%	L.S.	\$350.00	\$350.00	100.00%	\$350.00	100.00%	\$350.00	0.00%	\$0.00	100.00%	\$350.00	0.00%	\$0.00
28	TEMPERATURE TRANSMITTERS	100.00%	L.S.	\$500.00	\$500.00	100.00%	\$500.00	100.00%	\$500.00	0.00%	\$0.00	100.00%	\$500.00	0.00%	\$0.00
29	LIQUID LEVEL SWITCHES	100.00%	L.S.	\$900.00	\$900.00	100.00%	\$900.00	100.00%	\$900.00	0.00%	\$0.00	100.00%	\$900.00	0.00%	\$0.00
30	TURBINE METER	100.00%	L.S.	\$7,500.00	\$7,500.00	100.00%	\$7,500.00	100.00%	\$7,500.00	100.00%	\$7,500.00	0.00%	\$0.00	0.00%	\$0.00
31	UNDERGROUND PIPING	100.00%	L.S.	\$8,500.00	\$8,500.00	100.00%	\$8,500.00	100.00%	\$8,500.00	100.00%	\$8,500.00	0.00%	\$0.00	0.00%	\$0.00
CHANGE ORDERS															
CO1	ELEC SVC., TREES, TIME EXT.	0.00%	L.S.	\$13,574.00	\$0.00	100.00%	\$13,574.00	100.00%	\$13,574.00	100.00%	\$13,574.00	0.00%	\$0.00	0.00%	\$0.00
CO2	GRADING AND SODDING	0.00%	L.S.	\$5,661.20	\$0.00	100.00%	\$5,661.20	100.00%	\$5,661.20	0.00%	\$0.00	100.00%	\$5,661.20	0.00%	\$0.00

DU PAGE WATER COMMISSION
BOILER REPLACEMENT AND RELATED CONSTRUCTION WORK

OF CONNELLY MECHANICAL CONTRACTORS INC.
2515 SOUTH WABASH AVE
CHICAGO, ILL 60616

FINAL PAYMENT

STAFF APPROVALS	
ENGINEERING	<i>[Signature]</i>
ACCOUNTING	<i>[Signature]</i>

PAYMENT # _____
DATE 12/01/02
ACCOUNT # _____
WF-0022 (CON) \$28,279.11
WF-3520 (RET) \$40,102.38
WF-3700 (DED) \$0.00

#	ITEM	ORIGINAL CONTRACT QUANTITY	UNIT	UNIT PRICE	ORIGINAL CONTRACT PRICE	AMENDED CONTRACT QUANTITY	AMENDED CONTRACT PRICE	CURRENT TO DATE QUANTITY	EXTENSION	PREVIOUS PAYMENT QUANTITY	EXTENSION	THIS PAYMENT QUANTITY	EXTENSION	CONTRACT BALANCE QUANTITY	EXTENSION
1	BONDS	100.00%	L.S.	\$0.500.00	\$0.500.00	100.00%	\$0.500.00	100.00%	\$0.500.00	100.00%	\$0.500.00	0.00%	\$0.00	0.00%	\$0.00
2	INSURANCE	100.00%	L.S.	\$7,380.00	\$7,380.00	100.00%	\$7,380.00	100.00%	\$7,380.00	100.00%	\$7,380.00	0.00%	\$0.00	0.00%	\$0.00
3	MOBILIZATION	100.00%	L.S.	\$1,000.00	\$1,000.00	100.00%	\$1,000.00	100.00%	\$1,000.00	100.00%	\$1,000.00	0.00%	\$0.00	0.00%	\$0.00
4	SHOP DRAWINGS	100.00%	L.S.	\$10,000.00	\$10,000.00	100.00%	\$10,000.00	100.00%	\$10,000.00	100.00%	\$10,000.00	0.00%	\$0.00	0.00%	\$0.00
5	RENTAL EQUIPMENT	100.00%	L.S.	\$0.000.00	\$0.000.00	100.00%	\$0.000.00	100.00%	\$0.000.00	100.00%	\$0.000.00	0.00%	\$0.00	0.00%	\$0.00
6	GFC OAP	100.00%	L.S.	\$45,000.00	\$45,000.00	100.00%	\$45,000.00	100.00%	\$45,000.00	0.00%	\$0.000.00	10.00%	\$5,400.00	0.00%	\$0.00
7	MECHANICAL DEMOLITION	100.00%	L.S.	\$20,301.00	\$20,301.00	100.00%	\$20,301.00	100.00%	\$20,301.00	100.00%	\$20,301.00	0.00%	\$0.00	0.00%	\$0.00
8	GENERAL DEMOLITION	100.00%	L.S.	\$20,300.00	\$20,300.00	100.00%	\$20,300.00	100.00%	\$20,300.00	100.00%	\$20,300.00	0.00%	\$0.00	0.00%	\$0.00
9	CONCRETE	100.00%	L.S.	\$20,402.00	\$20,402.00	100.00%	\$20,402.00	100.00%	\$20,402.00	100.00%	\$20,402.00	0.00%	\$0.00	0.00%	\$0.00
10	CARPENTRY	100.00%	L.S.	\$0.491.00	\$0.491.00	100.00%	\$0.491.00	100.00%	\$0.491.00	0.00%	\$0.000.00	8.00%	\$474.55	0.00%	\$0.00
11	CRYSTALL	100.00%	L.S.	\$12,343.00	\$12,343.00	100.00%	\$12,343.00	100.00%	\$12,343.00	100.00%	\$12,343.00	0.00%	\$0.00	0.00%	\$0.00
12	GLAZING	100.00%	L.S.	\$550.00	\$550.00	100.00%	\$550.00	100.00%	\$550.00	0.00%	\$0.00	100.00%	\$550.00	0.00%	\$0.00
13	MASONRY	100.00%	L.S.	\$15,900.00	\$15,900.00	100.00%	\$15,900.00	100.00%	\$15,900.00	0.00%	\$0.000.00	2.00%	\$300.00	0.00%	\$0.00
14	HM DOORS/FRAMES/HOVIE	100.00%	L.S.	\$0.000.00	\$0.000.00	100.00%	\$0.000.00	100.00%	\$0.000.00	0.00%	\$0.000.00	0.00%	\$0.000.00	0.00%	\$0.00
15	LIQUID APPLIED FLOORING	100.00%	L.S.	\$0.500.00	\$0.500.00	100.00%	\$0.500.00	100.00%	\$0.500.00	0.00%	\$0.000.00	0.00%	\$0.000.00	0.00%	\$0.00
16	TERRAZZO	100.00%	L.S.	\$1,500.00	\$1,500.00	100.00%	\$1,500.00	100.00%	\$1,500.00	100.00%	\$1,500.00	0.00%	\$0.00	0.00%	\$0.00
17	ROOFING	100.00%	L.S.	\$2,000.00	\$2,000.00	100.00%	\$2,000.00	100.00%	\$2,000.00	100.00%	\$2,000.00	0.00%	\$0.00	0.00%	\$0.00
18	PAINTING	100.00%	L.S.	\$13,454.00	\$13,454.00	100.00%	\$13,454.00	100.00%	\$13,454.00	100.00%	\$13,454.00	0.00%	\$0.00	0.00%	\$0.00
19	VENTILATION	100.00%	L.S.	\$20,170.00	\$20,170.00	100.00%	\$20,170.00	100.00%	\$20,170.00	100.00%	\$20,170.00	0.00%	\$0.00	0.00%	\$0.00
20	BOILER FLUES	100.00%	L.S.	\$11,800.00	\$11,800.00	100.00%	\$11,800.00	100.00%	\$11,800.00	100.00%	\$11,800.00	0.00%	\$0.00	0.00%	\$0.00
21	CHEMICAL WATER TREATMENT	100.00%	L.S.	\$800.00	\$800.00	100.00%	\$800.00	100.00%	\$800.00	100.00%	\$800.00	0.00%	\$0.00	0.00%	\$0.00
22	FIRE SUPPRESSION SYSTEM	100.00%	L.S.	\$7,400.00	\$7,400.00	100.00%	\$7,400.00	100.00%	\$7,400.00	0.00%	\$0.000.00	0.00%	\$0.000.00	0.00%	\$0.00
23	INSULATION	100.00%	L.S.	\$0.000.00	\$0.000.00	100.00%	\$0.000.00	100.00%	\$0.000.00	100.00%	\$0.000.00	0.00%	\$0.00	0.00%	\$0.00
24	TEMPERATURE CONTROL	100.00%	L.S.	\$40,070.00	\$40,070.00	100.00%	\$40,070.00	100.00%	\$40,070.00	0.00%	\$0.000.00	13.00%	\$5,207.88	0.00%	\$0.00
25	ELECTRICAL	100.00%	L.S.	\$27,271.00	\$27,271.00	100.00%	\$27,271.00	100.00%	\$27,271.00	0.00%	\$0.000.00	0.00%	\$0.000.00	0.00%	\$0.00
26	PIPE/VALVES/FITTINGS	100.00%	L.S.	\$20,217.00	\$20,217.00	100.00%	\$20,217.00	100.00%	\$20,217.00	100.00%	\$20,217.00	0.00%	\$0.00	0.00%	\$0.00
27	PIPE/VALVE LABOR	100.00%	L.S.	\$47,399.00	\$47,399.00	100.00%	\$47,399.00	100.00%	\$47,399.00	100.00%	\$47,399.00	0.00%	\$0.00	0.00%	\$0.00
28	ARM & PTACS	100.00%	L.S.	\$15,000.00	\$15,000.00	100.00%	\$15,000.00	100.00%	\$15,000.00	100.00%	\$15,000.00	0.00%	\$0.00	0.00%	\$0.00
29	AHU/PTAC LABOR	100.00%	L.S.	\$1,024.00	\$1,024.00	100.00%	\$1,024.00	100.00%	\$1,024.00	100.00%	\$1,024.00	0.00%	\$0.00	0.00%	\$0.00
30	HUMIDIFIER	100.00%	L.S.	\$3,000.00	\$3,000.00	100.00%	\$3,000.00	100.00%	\$3,000.00	100.00%	\$3,000.00	0.00%	\$0.00	0.00%	\$0.00
31	HUMIDIFIER LABOR	100.00%	L.S.	\$1,024.00	\$1,024.00	100.00%	\$1,024.00	100.00%	\$1,024.00	100.00%	\$1,024.00	0.00%	\$0.00	0.00%	\$0.00
32	TACO PUMPS/ACCS	100.00%	L.S.	\$3,887.00	\$3,887.00	100.00%	\$3,887.00	100.00%	\$3,887.00	100.00%	\$3,887.00	0.00%	\$0.00	0.00%	\$0.00
33	PUMP LABOR	100.00%	L.S.	\$2,185.00	\$2,185.00	100.00%	\$2,185.00	100.00%	\$2,185.00	100.00%	\$2,185.00	0.00%	\$0.00	0.00%	\$0.00
34	BOILERS	100.00%	L.S.	\$32,000.00	\$32,000.00	100.00%	\$32,000.00	100.00%	\$32,000.00	100.00%	\$32,000.00	0.00%	\$0.00	0.00%	\$0.00
35	BOILER LABOR	100.00%	L.S.	\$5,414.00	\$5,414.00	100.00%	\$5,414.00	100.00%	\$5,414.00	100.00%	\$5,414.00	0.00%	\$0.00	0.00%	\$0.00

CHANGE ORDERS

CO1	110V CIRCUIT AT WHI	0.00%	L.S.	\$435.05	\$0.00	100.00%	\$435.05	100.00%	\$435.05	100.00%	\$435.05	0.00%	\$0.00	0.00%	\$0.00
CO2	208V CIRCUIT AT AC-3	0.00%	L.S.	\$447.35	\$0.00	100.00%	\$447.35	100.00%	\$447.35	100.00%	\$447.35	0.00%	\$0.00	0.00%	\$0.00
CO3	ADDL CONCRETE RESTORE	0.00%	L.S.	\$0,813.10	\$0.00	100.00%	\$0,813.10	100.00%	\$0,813.10	100.00%	\$0,813.10	0.00%	\$0.00	0.00%	\$0.00
CO4	MASONRY & VENTILATION	0.00%	L.S.	\$3,370.33	\$0.00	100.00%	\$3,370.33	100.00%	\$3,370.33	100.00%	\$3,370.33	0.00%	\$0.00	0.00%	\$0.00
CO5	RELOCATE GAS LINE	0.00%	L.S.	\$1,191.71	\$0.00	100.00%	\$1,191.71	100.00%	\$1,191.71	100.00%	\$1,191.71	0.00%	\$0.00	0.00%	\$0.00
CO6	ADDL PIPE INSULATION	0.00%	L.S.	\$571.55	\$0.00	100.00%	\$571.55	100.00%	\$571.55	100.00%	\$571.55	0.00%	\$0.00	0.00%	\$0.00
CO7	ADDL PIPE DEMOLITION	0.00%	L.S.	\$2,044.80	\$0.00	100.00%	\$2,044.80	100.00%	\$2,044.80	0.00%	\$0.00	100.00%	\$2,044.80	0.00%	\$0.00
CO8	HUMIDITY CONTROLS	0.00%	L.S.	\$5,125.25	\$0.00	100.00%	\$5,125.25	100.00%	\$5,125.25	0.00%	\$0.00	100.00%	\$5,125.25	0.00%	\$0.00

CONTRACT SUB-TOTALS		\$408,832.94	\$408,832.94	\$408,832.94	\$408,832.94	\$28,279.11	\$0.00
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RETENTION	0.00%		\$0.00		(\$46,155.38)	\$46,155.38	\$0.00
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CONTRACT TOTALS			\$408,832.94		\$415,398.45	\$74,454.49	\$0.00
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1X ADMINISTRATIVE DAMAGES	DAYS	(\$500.00)		0.00	\$0.00	0.00	\$0.00
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TOTAL DEDUCTS			\$0.00		\$0.00	\$0.00	
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NET PAYMENT TO CONTRACTOR			\$408,832.94		\$415,398.45	\$74,454.49	
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CHANGE ORDER PERCENTAGE			0.12%				
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CORR. MITI. SYSTEM. 72" TRANS. MAIN (TE-5/01)

DATE 11/25/02

R. CLEVELAND U.G. TECH., CORP.
95 CENTER DRIVE
GILBERTS, ILLINOIS 60136

FINAL PAYMENT

ACCOUNT # AMOUNT
WF-7500 \$ -
WF-3520 \$ 41,017.63
WF-3530 \$ -

#	ITEM	ORIGINAL CONTRACT QUANTJITY	UNIT	UNIT PRICE	ORIGINAL CONTRACT PRICE	AMENDED CONTRACT QUANTITY	AMENDED CONTRACT PRICE	CURRENT QUANTITY	TO DATE EXTENSION	PREVIOUS QUANTITY	PAYMENT EXTENSION	THIS QUANTITY	PAYMENT EXTENSION	CONTRACT QUANTITY	BALANCE EXTENSION
1	SITE NO. 1	100.00%	L.S.	\$428,000.00	\$428,000.00	100.00%	\$428,000.00	100.00%	\$428,000.00	100.00%	\$428,000.00	0.00%	\$0.00	0.00%	\$0.00
2	SITE NO. 2	100.00%	L.S.	\$52,100.00	\$52,100.00	100.00%	\$52,100.00	100.00%	\$52,100.00	100.00%	\$52,100.00	0.00%	\$0.00	0.00%	\$0.00
3	SITE NO. 3	100.00%	L.S.	\$56,200.00	\$56,200.00	100.00%	\$56,200.00	100.00%	\$56,200.00	100.00%	\$56,200.00	0.00%	\$0.00	0.00%	\$0.00
4	SITE NO.4	100.00%	L.S.	\$53,000.00	\$53,000.00	100.00%	\$53,000.00	100.00%	\$53,000.00	100.00%	\$53,000.00	0.00%	\$0.00	0.00%	\$0.00
5	SITE NO. 5	100.00%	L.S.	\$55,000.00	\$55,000.00	100.00%	\$55,000.00	100.00%	\$55,000.00	100.00%	\$55,000.00	0.00%	\$0.00	0.00%	\$0.00
6	SITE NO.6	100.00%	L.S.	\$54,400.00	\$54,400.00	100.00%	\$54,400.00	100.00%	\$54,400.00	100.00%	\$54,400.00	0.00%	\$0.00	0.00%	\$0.00
7	INSTALLATION OF BONDING CABLES	9.00	EA.	\$4,900.00	\$44,100.00	10.00	\$49,000.00	10.00	\$49,000.00	10.00	\$49,000.00	0.00	\$0.00	0.00	\$0.00
8	INSTALL. OF REF. ELECTRODE ASSEMBLY	6.00	EA.	\$2,190.00	\$13,140.00	6.00	\$13,140.00	6.00	\$13,140.00	6.00	\$13,140.00	0.00	\$0.00	0.00	\$0.00
INDETERMINATE ITEMS														\$0.00	\$0.00
9	EXTENSION OF ANODE COLUMN	20.00	L. F.	\$35.00	\$700.00	24.00	\$840.00	24.00	\$840.00	24.00	\$840.00	0.00	\$0.00	0.00	\$0.00
10	ADDITIONAL ANODE SEGMENT	5.00	EA.	\$500.00	\$2,500.00	2.00	\$1,000.00	2.00	\$1,000.00	2.00	\$1,000.00	0.00	\$0.00	0.00	\$0.00
11	ADDITIONAL ANODE COLUMN	5.00	EA.	\$3,000.00	\$15,000.00	4.00	\$12,000.00	4.00	\$12,000.00	4.00	\$12,000.00	0.00	\$0.00	0.00	\$0.00
12	ADD. DIRECTIONALLY DRILLED CONDUIT	200.00	L. F.	\$75.00	\$15,000.00	240.00	\$18,000.00	240.00	\$18,000.00	240.00	\$18,000.00	0.00	\$0.00	0.00	\$0.00
13	ADD. 500 MCM CABLE, IN CONDUIT	200.00	L. F.	\$8.75	\$1,750.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
14	ADD. #2 AWG CABLE, DIRECT BURY	1,000.00	L. F.	\$5.85	\$5,850.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
15	ADD. #4 AWG CABLE, DIRECT BURY	1,000.00	L. F.	\$5.75	\$5,750.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
16	ADD. #6 AWG CABLE, DIRECT BURY	1,000.00	L. F.	\$5.65	\$5,650.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
17	ADD. #8 AWG CABLE, DIRECT BURY	1,000.00	L. F.	\$5.50	\$5,500.00	100.00	\$550.00	100.00	\$550.00	100.00	\$550.00	0.00	\$0.00	0.00	\$0.00
18	ADD. #10 AWG CABLE, DIRECT BURY	1,000.00	L. F.	\$5.45	\$5,450.00	54.00	\$294.30	54.00	\$294.30	54.00	\$294.30	0.00	\$0.00	0.00	\$0.00
19	ADD. 3-COND.SHIELDED CABLE,IN CONDUIT	200.00	L. F.	\$6.25	\$1,250.00	240.00	\$1,500.00	240.00	\$1,500.00	240.00	\$1,500.00	0.00	\$0.00	0.00	\$0.00
20	REPLACEMENT TEST STATION	5.00	EA.	\$4,800.00	\$24,000.00	2.00	\$9,600.00	2.00	\$9,600.00	2.00	\$9,600.00	0.00	\$0.00	0.00	\$0.00
CO#1	RELOCATE RECTIFIER; TIME EXT. 133 DAYS														
CO#1	L.S. ADDITION - RECTIFIER RELOCATION	0.00	L.S.	\$15,728.22	\$0.00	1.00	\$15,728.22	1.00	\$15,728.22	1.00	\$15,728.22	0.00	\$0.00	0.00	\$0.00
CO#1	AMENDS ITEMS 15, 17 & 20														
CO#2	TIME EXT. 96 DAYS														
CO#2	AMENDS ITEMS 7, 9, 10, 11, 12, 13, 14, 16, 18, 19 & 20														
CONTRACT SUB-TOTALS					\$844,340.00		\$820,352.52		\$820,352.52		\$820,352.52		\$0.00		\$0.00
RETENTION					0.00%				\$0.00		(\$41,017.63)		\$41,017.63		\$0.00
CONTRACT TOTALS									\$820,352.52		\$779,334.89		\$41,017.63		
EXCESS DEDUCTS/BONUS															
1X	EXCESS ENGINEERING COSTS-ABH		HRS.	(\$60.00)				0.00	\$0.00	0.00	\$0.00	0.00	\$0.00		
2X	EXCESS ENGINEERING COSTS-DWC		HRS.	(\$60.00)				0.00	\$0.00	0.00	\$0.00	0.00	\$0.00		
NET PAYMENT TO CONTRACTOR									\$820,352.52		\$779,334.89		\$41,017.63		
CHANGE ORDER PERCENTAGE									-2.84%						

STAFF APPROVALS

ENGINEERING

ACCOUNTING

DU PAGE WATER COMMISSION

WEST TRANSMISSION MAIN

(TW-1)

HARRY W. KUMH CONST. CO., INC.
P.O. BOX 269
WHEATON, ILLINOIS 60189-0269

FINAL PAYMENT

PAYMENT # 28 FINAL

DATE 11/25/02

ACCOUNT #	AMOUNT
WF-7990	\$9,921.00
WF-1398	24.00
WF-3520	\$186,375.03
WF-3530	\$16,230.00

#	ITEM	ORIGINAL CONTRACT QUANTITY	UNIT	UNIT PRICE	ORIGINAL CONTRACT PRICE	AMENDED CONTRACT QUANTITY	AMENDED CONTRACT PRICE	CURRENT QUANTITY	TO DATE EXTENSION	PREVIOUS QUANTITY	PAYMENT EXTENSION	THIS PAYMENT QUANTITY	EXTENSION	CONTRACT QUANTITY	BALANCE EXTENSION
	CONTRACT SUB-TOTALS				\$9,681,515.00 *****		\$9,327,399.44 *****		\$9,327,399.44		\$9,318,754.44		\$2,645.00		\$0.00
	RETENTION			0.00%					\$0.00		(\$186,375.09)		\$186,375.09		\$0.00
	CONTRACT TOTALS								\$9,327,399.44		\$9,132,379.35		\$195,020.09		\$0.00 *****
EXCESS DEDUCT/BONUS															
1X	EXCESS ENGINEERING COSTS-ABH		HRS.	(\$60.00)				120.00	(\$7,200.00)	390.50	(\$23,430.00)	(270.50)	\$16,230.00		
2X	EXCESS ENGINEERING COSTS-DWC		HRS.	(\$60.00)				0.00	\$0.00	0.00	\$0.00	0.00	\$0.00		
3X	PRATT LIEN CLAIM		L.S.	(\$75,000.00)				0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00		
	NET PAYMENT TO CONTRACTOR								\$9,320,199.44 *****		\$9,108,949.35 *****		\$211,250.09 *****		
	CHANGE ORDER PERCENTAGE							-3.35%							
	CHANGE ORDER PERCENTAGE EXCLUDING NAPERVILLE WORK							-8.08%							

STAFF APPROVALS

ENGINEERING

ACCOUNTING

WEST TRANSMISSION MAIN

(TW-1)

DATE 11/25/02

HARRY W. KUHN CONST. CO., INC.
P.O. BOX 366
WHEATON, ILLINOIS 60185-0366

FINAL PAYMENT

ACCOUNT # AMOUNT
WF-7550 \$8,621.00
WF-1398 24.00
WF-5520 \$136,375.05
WF-5520 \$16,730.00

#	ITEM	ORIGINAL CONTRACT		UNIT PRICE	ORIGINAL CONTRACT		AMENDED CONTRACT	AMENDED CONTRACT	CURRENT	TO DATE	PREVIOUS	PRFMENT	THIS PAYMENT		CONTRACT	BALANCE
		QUANTITY	UNIT		PRICE	QUANTITY	PRICE	PRICE	QUANTITY	EXTENSION	QUANTITY	EXTENSION	QUANTITY	EXTENSION	QUANTITY	EXTENSION
1	48" PIPE IN TRENCH	25,458.00	L F	\$187.50	\$4,773,375.00	25,412.00	\$4,764,750.00	\$4,764,750.00	25,412.00	\$4,764,750.00	25,412.00	\$4,764,750.00	0.00	\$0.00	0.00	\$0.00
2	30" PIPE IN TRENCH	15.00	L F	\$500.00	\$7,500.00	15.00	\$7,500.00	\$7,500.00	15.00	\$7,500.00	15.00	\$7,500.00	0.00	\$0.00	0.00	\$0.00
3	48" PIPE IN CASING	632.00	L F	\$140.00	\$88,680.00	660.00	\$92,400.00	\$92,400.00	660.00	\$92,400.00	660.00	\$92,400.00	0.00	\$0.00	0.00	\$0.00
4	72" STEEL CASING	412.00	L F	\$1,440.00	\$593,280.00	440.00	\$633,600.00	\$633,600.00	440.00	\$633,600.00	440.00	\$633,600.00	0.00	\$0.00	0.00	\$0.00
5	72" STEEL CASING IN OPEN CUT	60.00	L F	\$430.00	\$25,800.00	60.00	\$25,800.00	\$25,800.00	60.00	\$25,800.00	60.00	\$25,800.00	0.00	\$0.00	0.00	\$0.00
6	72" STEEL CASING UNDER RAILROAD	160.00	L F	\$1,430.00	\$228,800.00	160.00	\$228,800.00	\$228,800.00	160.00	\$228,800.00	160.00	\$228,800.00	0.00	\$0.00	0.00	\$0.00
7	RELOCATE 12" WATER MAIN	20.00	L F	\$330.00	\$6,600.00	20.00	\$6,600.00	\$6,600.00	20.00	\$6,600.00	20.00	\$6,600.00	0.00	\$0.00	0.00	\$0.00
8	PIPE CONNECTION TO 30" PCCP @ 75TH	1.00	LS	\$1,650.00	\$1,650.00	1.00	\$1,650.00	\$1,650.00	1.00	\$1,650.00	1.00	\$1,650.00	0.00	\$0.00	0.00	\$0.00
9	DIP SEWER SERVICE REPLACEMENT	655.00	L F	\$38.00	\$24,890.00	298.00	\$11,324.00	\$11,324.00	298.00	\$11,324.00	298.00	\$11,324.00	0.00	\$0.00	0.00	\$0.00
10	6" DIP SEWER REPLACEMENT	55.00	L F	\$19.00	\$1,045.00	30.00	\$570.00	\$570.00	30.00	\$570.00	30.00	\$570.00	0.00	\$0.00	0.00	\$0.00
11	8" DIP SEWER REPLACEMENT	215.00	L F	\$22.00	\$4,730.00	194.00	\$4,268.00	\$4,268.00	194.00	\$4,268.00	194.00	\$4,268.00	0.00	\$0.00	0.00	\$0.00
12	10" DIP SEWER REPLACEMENT	635.00	L F	\$38.00	\$20,330.00	483.00	\$18,354.00	\$18,354.00	483.00	\$18,354.00	483.00	\$18,354.00	0.00	\$0.00	0.00	\$0.00
13	12" DIP SEWER REPLACEMENT	105.00	L F	\$29.00	\$3,045.00	105.00	\$3,045.00	\$3,045.00	105.00	\$3,045.00	105.00	\$3,045.00	0.00	\$0.00	0.00	\$0.00
14	18" DIP SEWER REPLACEMENT	145.00	L F	\$48.00	\$7,020.00	20.00	\$960.00	\$960.00	20.00	\$960.00	20.00	\$960.00	0.00	\$0.00	0.00	\$0.00
15	20" DIP SEWER REPLACEMENT	35.00	L F	\$57.00	\$2,345.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
16	24" DIP SEWER REPLACEMENT	30.00	L F	\$92.00	\$2,760.00	45.00	\$3,772.00	\$3,772.00	45.00	\$3,772.00	45.00	\$3,772.00	0.00	\$0.00	0.00	\$0.00
17	30" DIP SEWER REPLACEMENT	30.00	L F	\$87.00	\$2,610.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
18	12" RCP SEWER REPLACEMENT	645.00	L F	\$19.00	\$10,355.00	645.00	\$12,274.00	\$12,274.00	645.00	\$12,274.00	645.00	\$12,274.00	0.00	\$0.00	0.00	\$0.00
19	18" RCP SEWER REPLACEMENT	75.00	L F	\$32.00	\$2,400.00	20.00	\$640.00	\$640.00	20.00	\$640.00	20.00	\$640.00	0.00	\$0.00	0.00	\$0.00
20	21" RCP SEWER REPLACEMENT	55.00	L F	\$37.00	\$2,035.00	30.00	\$1,110.00	\$1,110.00	30.00	\$1,110.00	30.00	\$1,110.00	0.00	\$0.00	0.00	\$0.00
21	24" RCP SEWER REPLACEMENT	30.00	L F	\$40.00	\$1,200.00	44.00	\$1,760.00	\$1,760.00	44.00	\$1,760.00	44.00	\$1,760.00	0.00	\$0.00	0.00	\$0.00
22	30" RCP SEWER REPLACEMENT	45.00	L F	\$96.00	\$4,320.00	40.00	\$3,840.00	\$3,840.00	40.00	\$3,840.00	40.00	\$3,840.00	0.00	\$0.00	0.00	\$0.00
23	36" RCP SEWER REPLACEMENT	20.00	L F	\$74.00	\$1,480.00	25.00	\$1,850.00	\$1,850.00	25.00	\$1,850.00	25.00	\$1,850.00	0.00	\$0.00	0.00	\$0.00
24	48" RCP SEWER REPLACEMENT	30.00	L F	\$82.00	\$2,460.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
25	20" BUTTERFLY VALVE IN VAULT	1.00	EA	\$19,500.00	\$19,500.00	1.00	\$19,500.00	\$19,500.00	1.00	\$19,500.00	1.00	\$19,500.00	0.00	\$0.00	0.00	\$0.00
26	48" BUTTERFLY VALVE & VAULT	4.00	EA	\$36,500.00	\$146,000.00	4.00	\$146,000.00	\$146,000.00	4.00	\$146,000.00	4.00	\$146,000.00	0.00	\$0.00	0.00	\$0.00
27	48" ROV BUTTERFLY VALVE & VAULT	1.00	EA	\$172,900.00	\$172,900.00	1.00	\$172,900.00	\$172,900.00	1.00	\$172,900.00	0.95	\$164,255.00	0.05	\$8,645.00	0.00	\$0.00
28	12" BLOW-OFF IN MANHOLE	5.00	EA	\$17,125.00	\$85,625.00	5.00	\$85,625.00	\$85,625.00	5.00	\$85,625.00	5.00	\$85,625.00	0.00	\$0.00	0.00	\$0.00
29	AIR RELEASE VALVE & MANHOLE	5.00	EA	\$5,340.00	\$26,700.00	5.00	\$26,700.00	\$26,700.00	5.00	\$26,700.00	5.00	\$26,700.00	0.00	\$0.00	0.00	\$0.00
30	AIR RELEASE & ACCESS MANHOLE	15.00	EA	\$12,665.00	\$189,975.00	15.00	\$189,975.00	\$189,975.00	15.00	\$189,975.00	15.00	\$189,975.00	0.00	\$0.00	0.00	\$0.00
31	GRANULAR TRENCH BACKFILL	45,900.00	C Y	\$12.00	\$550,800.00	47,609.00	\$571,308.00	\$571,308.00	47,609.00	\$571,308.00	47,609.00	\$571,308.00	0.00	\$0.00	0.00	\$0.00
32	ASPHALT PAVEMENT REM & REPL	25,100.00	S Y	\$14.50	\$363,950.00	12,187.00	\$176,711.50	\$176,711.50	12,187.00	\$176,711.50	12,187.00	\$176,711.50	0.00	\$0.00	0.00	\$0.00
33	FULL WIDTH & DEPTH REMOVAL & INSTALL	37,300.00	S Y	\$22.00	\$820,600.00	33,303.00	\$732,666.00	\$732,666.00	33,303.00	\$732,666.00	33,303.00	\$732,666.00	0.00	\$0.00	0.00	\$0.00
34	ASPHALT DRIVEWAY, REM & REPL	1,450.00	S Y	\$18.50	\$26,725.00	2,188.00	\$40,478.00	\$40,478.00	2,188.00	\$40,478.00	2,188.00	\$40,478.00	0.00	\$0.00	0.00	\$0.00
35	CONCRETE DRIVEWAY, REM & REPL	2,510.00	S Y	\$52.00	\$130,520.00	1,131.00	\$58,812.00	\$58,812.00	1,131.00	\$58,812.00	1,131.00	\$58,812.00	0.00	\$0.00	0.00	\$0.00
36	STONE DRIVEWAY, REM & REPL	190.00	S Y	\$18.00	\$3,420.00	133.00	\$2,394.00	\$2,394.00	133.00	\$2,394.00	133.00	\$2,394.00	0.00	\$0.00	0.00	\$0.00
37	REFLECTIVE CRACK CONTROL TREAT	22,600.00	S Y	\$0.69	\$15,594.00	22,079.00	\$15,234.51	\$15,234.51	22,079.00	\$15,234.51	22,079.00	\$15,234.51	0.00	\$0.00	0.00	\$0.00
38	1-1/2" GRIND AND OVERLAY	21,530.00	S Y	\$3.70	\$79,650.00	28,294.00	\$104,687.80	\$104,687.80	28,294.00	\$104,687.80	28,294.00	\$104,687.80	0.00	\$0.00	0.00	\$0.00
39	CURB & GUTTER REMOVE & REPLACE	25,200.00	L F	\$14.00	\$352,800.00	19,844.00	\$277,816.00	\$277,816.00	19,844.00	\$277,816.00	19,844.00	\$277,816.00	0.00	\$0.00	0.00	\$0.00
40	SIDEWALK, REM & REPL	580.00	S F	\$4.50	\$2,610.00	3,380.00	\$15,210.00	\$15,210.00	3,380.00	\$15,210.00	3,380.00	\$15,210.00	0.00	\$0.00	0.00	\$0.00
41	TOPSOIL & SEEDING	17,400.00	S Y	\$2.55	\$44,370.00	9,589.00	\$24,451.95	\$24,451.95	9,589.00	\$24,451.95	9,589.00	\$24,451.95	0.00	\$0.00	0.00	\$0.00
42	TOPSOIL & SODDING	11,200.00	S Y	\$4.15	\$46,480.00	8,886.00	\$36,876.90	\$36,876.90	8,886.00	\$36,876.90	8,886.00	\$36,876.90	0.00	\$0.00	0.00	\$0.00
43	6AN & STORM MANHOLE, REM & REPL	2.00	EA	\$2,020.00	\$4,040.00	1.00	\$2,020.00	\$2,020.00	1.00	\$2,020.00	1.00	\$2,020.00	0.00	\$0.00	0.00	\$0.00
44	CATCH BASIN, REM & REPL	2.00	EA	\$1,640.00	\$3,280.00	3.00	\$4,920.00	\$4,920.00	3.00	\$4,920.00	3.00	\$4,920.00	0.00	\$0.00	0.00	\$0.00
45	CURB INLET, REM & REPL	50.00	EA	\$810.00	\$40,500.00	14.00	\$11,340.00	\$11,340.00	14.00	\$11,340.00	14.00	\$11,340.00	0.00	\$0.00	0.00	\$0.00
46	NOT USED	0.00		\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
47	RELOCATE CHAIN LINK FENCE	85.00	L F	\$30.00	\$2,550.00	85.00	\$2,550.00	\$2,550.00	85.00	\$2,550.00	85.00	\$2,550.00	0.00	\$0.00	0.00	\$0.00
48	CORROSION MONITORING & TEST SYSTEM	1.00	LS	\$86,000.00	\$86,000.00	1.00	\$86,000.00	\$86,000.00	1.00	\$86,000.00	1.00	\$86,000.00	0.00	\$0.00	0.00	\$0.00
49	TRENCH WATER CONTROL	1.00	LS	\$12,000.00	\$12,000.00	1.00	\$12,000.00	\$12,000.00	1.00	\$12,000.00	1.00	\$12,000.00	0.00	\$0.00	0.00	\$0.00
50	TRAFFIC CONT. PROTECTION & SIGNALS	1.00	LS	\$80,000.00	\$80,000.00	1.00	\$80,000.00	\$80,000.00	1.00	\$80,000.00	1.00	\$80,000.00	0.00	\$0.00	0.00	\$0.00
51	DETECTOR LOOP REPLACEMENT	825.00	L F	\$20.00	\$16,500.00	818.00	\$16,360.00	\$16,360.00	818.00	\$16,360.00	818.00	\$16,360.00	0.00	\$0.00	0.00	\$0.00
52	NOT USED	0.00		\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
53	NOT USED	0.00		\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
54	NOT USED	0.00		\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
55	NOT USED	0.00		\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
56	MAINT EXIST TRAFFIC SIGNAL	2.00	EA	\$9,340.00	\$18,680.00	1.00	\$9,340.00	\$9,340.00	1.00	\$9,340.00	1.00	\$9,340.00	0.00	\$0.00	0.00	\$0.00
57	TEMP TRAFFIC SIGNAL INSTALLATION	1.00	EA	\$45,400.00	\$45,400.00	0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00



DuPage Water Commission

MEMORANDUM

TO: Chairman & Members of Engineering Committee

FROM: General Manager

DATE: December 2, 2002

SUBJECT: Issues Related to Water Service to Batavia, Geneva and North Aurora

Subsequent to the November 14th Commission meeting, Alvord, Burdick & Howson determined the diameters and lengths of the watermains necessary to supply water to Batavia, Geneva and North Aurora under full and half water supply conditions. The half water supply condition assumes these municipalities will mix the deep well water with Lake Michigan water to comply with the radium level standard. If these municipalities choose to take sufficient water to reduce the radium levels it will be necessary for them to construct improvements to their water systems to bring the water from the deep wells to a central mixing facility.

The following are the conditions used in sizing the water mains:

1. Does not take into account the Commission's distribution system's ability to transport sufficient water to the point of take off of the distribution system. To determine if any system improvements are necessary to transport water to the point of take off it will be necessary to conduct a hydraulic study as outlined in the October 31, 2002 memorandum.
2. The mains were sized using the current C-Factor of 92.

The attached drawings show the proposed location and sizes of the watermains to provide full or half water services. The following tables show the sizes, lengths and costs of the watermains to provide full or half water service. The costs were determined based upon the costs for installing the 48" watermains as part of Contracts TW-1 and TW-2.

Cost of Watermains for Full Water Service

Diameter	Length	Cost per foot	Cost
48"	34,848	\$358.04	\$12,477,101
36"	6,336	\$268.53	\$1,701,423
24"	32,208	\$179.02	\$5,765,933
		Total	\$19,944,457

Cost of Watermains for Half Water Service

Diameter	Length	Cost per foot	Cost
36"	34,848	\$268.53	\$9,357,826
24"	6,336	\$179.02	\$1,134,282
20"	32,208	\$149.18	\$4,804,944
		Total	\$15,297,052

The size of the watermains could be reduced with the installation of a pumping station in the general area of Geneva and Prince Crossing Roads. To determine if it is economical to install the pump station rather than the larger diameter watermains, a hydraulic/economic study needs to be performed.

The following table shows the percentage of the total water usage based upon the 2020 average day demand. The percentage could be used in allocating costs for the watermains.

Municipality	2020 Average Day Demand	Percentage of Total
Batavia	5.0	42.0%
Geneva	4.3	36.1%
North Aurora	2.6	21.8%
Total	11.9	100.0%



ASSUMPTIONS:
 Q = 2020 MAX. DAY PRESENT
 DWC CUSTOMERS ONLY
 "C" VALUE = 92

ALVORD, BURDICK & HOWSON, L.L.C.



NOVEMBER 27, 2002

