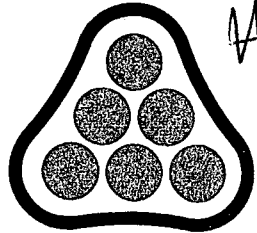


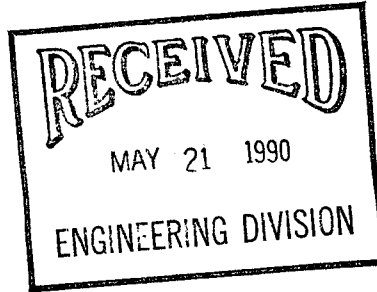
DIRECTORS

- C. O. KNOP, P.E.
- W. H. KELTNER, P.E.
- R. D. PLETCHER, P.E.
- D. E. MALTBIE, P.E.
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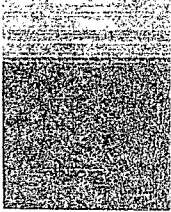
*J. E. D. Don*  
*Hockey*  
*EVI*



May 18, 1990



**P**ROFESSIONAL  
**E**NGINEERING  
**C**ONSULTANTS  
PROFESSIONAL ASSOCIATION



Mr. Jerry Blain  
 City of Wichita Sewer Maintenance  
 City Hall  
 455 N. Main  
 Wichita, KS 67202

Attention: Mr. Steve Palmer

Reference: Reflection Ridge 6th Addition Sewer Service  
 PEC File No. 36-89469-2273

Dear Mr. Blain:

In accordance with Mr. Steve Palmer's request regarding the above project, we have revised the gravity sanitary sewer layout to front loaded service as shown on the attached drawing. We have also increased the pump station and standby power cost estimate to \$75,000 as recommended by Mr. Palmer. The project cost estimate for total front load sewer service is \$521,300.

The previous cost estimates submitted to you for a vacuum sewer system was \$424,500. The cost estimate for the gravity alternate submitted was for a combination of front and rear load sewers which was estimated at \$543,700.

Our client is anxious to proceed with this development and would like to receive your comments about the possible use of a vacuum sewer system. Your earliest response is sincerely appreciated.

Very truly yours,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

Michael D. Schomaker, P.E.  
 Project Manager

MDS:ep1

xc: Mike Lindebak  
 Reg Boothe  
 Marvin Schellenberg

303 S. TOPEKA  
 WICHITA, KANSAS 67202  
 (316) 262-2691  
 FAX (316) 262-3003

Reflection Ridge 6th Addition  
Alternate Sewer Layout  
May 18, 1990

C. Gravity System - Front Load

1.	8-inch Pipe (PVC), 8005 L.F. @ \$18.00/L.F.	\$144,090
2.	Dewatering, 8005 L.F. @ \$7.00/L.F.	56,035
3.	4-foot diameter Manhole, 59 Each @ \$2,000/Ea.	118,000
4.	4-inch Riser Pipe, 455 L.F. @ \$7.00/L.F.	3,185
5.	Standby power and Pump Station	75,000
6.	4-inch Force Main, 1200 L.F. @ \$9.00/L.F.	<u>10,800</u>
		\$407,110
	Contingencies (10%)	40,790
	Design (8%)	32,600
	Inspection (10%)	<u>40,800</u>
		\$521,300