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FEB 1 0 1997

CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

ENDINCERING DEPT.

February 4, 1997

- 10700 Richmond AvenueNorth Dallas County Water Supply Corporation
Post Office Box 819010
City of Farmers Branch, Texas 75381-9010Suite 275Attention: Mr. Jerry Murawski
 - Subject: North Dallas County Water Supply Corporation Phase I - Sanitary Interceptor Sewer Final Report

Gentlemen:

Phone: (713) 780 7168 Submitted herewith is the Final Report for the subject project:

I. PROJECT REVIEW

Fax: (713) 780 7193

Houston, Texas 77042

A. <u>Status</u>

1. Construction

The construction of the project is complete including the one year warranty Post video of the inside of the sewer for its entire length. Substantial completion was September 21, 1996. The Post videos were submitted for final review on December 10, 1996.

2. Post Video Review

A review of the Post video tapes is as follows:

- a. The grade and alignment of the sewer is excellent with no offsets or dips.
- b. The tee-lock liner is also in excellent condition with <u>every</u> joint in the sewer and manholes sealed. There are absolutely no leaks.
- c. The flow varies in depth from ± 1 inch below the 270 degree tee-lock liner to ± 3 inches above the edge of the liner. The flow is smooth and uniform. The video was taken during a dry period with no rain before or during the video taping.

One copy of the 4 video tapes will be sent under separate cover.



- 3. <u>Restoration</u> All restoration has been completed.
- 4. <u>Record Drawings</u> One copy of sealed Mylars and electronic CAD dis

One copy of sealed Mylars and electronic CAD discs of the record drawings were submitted June 10, 1996.

5. Pictures

Construction pictures have been bound in two books. These books will also be sent under separate cover.

II. FINAL CONSTRUCTION

1.	Original Bid Price =	\$ 1]	1,046,890.00
2.	<u>Change Orders</u> Net total of 3 Change Orders is a deduction of =	\$	89,709.72
3.	Final Construction Cost =	\$ 1(),642,336.01

The contract is a Unit Price Contract. The final cost is the net amount of the Change Order reduction and the payment for actual pay items measured in place on a unit price basis.

4. The Final Construction Cost is \$404,553.99 under the original Bid Price.

III. ODOR CONTROL

A. General

Shortly after the Phase II sewers from Farmers Branch and Addison were connected into the tunnel, odors associated with hydrogen sulfide gas were detected around the tunnel vent pipe vents. Generally these odors are only detected during warm weather. There is minimal to no odor during the late fall and winter months.

B. Corrective Action

In order to determine the cause and potential magnitude of the odors several steps have been taken.

1. Air Quality Analysis:

Armstrong Environmental, Inc. has been contracted by CTE to provide air and gas sampling of the six vents associated with the 60 inch tunnel.



CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

2. <u>Chemical Analysis of Sewage:</u>

ERMI Environmental Laboratories has been contracted by CTE to provide a chemical analysis of the sewage over a 24 hour period at 4 locations, including one each of sewage being discharged by the Addison and Farmers Branch Phase II sewers immediately up stream of the terminal tunnel shaft.

The results of these air and water samples will be available during February 1997. Several odor control systems, which will treat the hydrogen sulfide in the liquid state rather than treating the generation of hydrogen sulfide gas that is released from solution, will be analyzed. A separate report will be prepared after the laboratory tests have been completed, and a recommended system including operating and chemical costs will be submitted.

3. Interim Solution Installed

In order to remove the gaseous odors at the vents Unisorb Corporation has modified the existing vents so that carbon pellets can be placed in the vents, which filter the odor (gas) as it passes through the vent. The carbon pellets have been installed and the odors have been removed. The cost of the pellets are \$525 for the four vents where odors were detected. The carbon will probably not be required to be removed during the winter. There is no history of longevity of the pellets in the summer but Unisorb estimates \pm 3 month changes in the summer.

IV. SUMMARY AND CONCLUSION

A. Final Payment

Based on Final Payment Request No. 26, it is recommended that the Contractor be paid in full in the amount of \$181,919.27.

- B. Final Inspection of Interceptor Sewer Tunnel and Open Cut
 - Final acceptance of the sewer is recommended. There are no visible defects along the entire length of the sewer. There are also <u>no</u> leaks. The line and grade are straight with no offsets. Consoer Townsend Envirodyne appreciates the trust placed in our firm to provide Engineering Design and Construction Services to successfully complete this project. We wish to thank the engineering staffs of both the City of Farmers Branch and the City of Addison and the North Dallas County Water Supply Corporation Board for their excellent cooperation and assistance.

Yours truly, CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

Wilbur Van Riper Project Manager



January 29, 1997

TO: Charles Cox, Director of Finance

FROM: Jerome Murawski, Jr., City Engineer

SUBJECT: NDCWSC Contract Administration

The attached detail of tasks reflect City of Farmers Branch Engineering staff time for the NDCWSC Interceptor Sewer. The project manager agreement was executed April 15, 1993 and Engineering staff time is for the months of October, November, and December, 1996.

<u>Phase I</u> :	
Project Engineer	8 hours
Engineering Inspector	12 hours
<u>Phase II</u> :	
Project Engineer	7 hours
Engineering Inspector	78 hours

Please invoice the Cities per agreement including any time for financial administration and public relations and administrative services.

JVM:nm attachments

cc: John Baumgartner, P.E. Town of Addison

B:\SISTIME.OND\NDCWSC

GARY OSHEL PROJECT ENGINEER

<u>PHASE I</u>

October 24, 1996 - 2 hours Review proposal for odor control with Consoer Townsend & Associates

October 28, 1996 - 1 hour Process purchasing order for odor control

November 7, 1996 - 2 hours Review agreements for air testing and sampling

November 21, 1996 - 2 hours Coordinate installation of odor control

December 26, 1996 - 1 hour Process payment for odor control

8 hours total for Phase I

PHASE II

November 19, 1996 - 2 hours Look at replacement trees for restoration

December 5, 1996 - 2 hours Meeting with Providence Towers re: restoration

Nov. 1996 - Dec. 1996 - 3 hours Various communications with property managers, contractor re: tree replacement

7 hours total for Phase II

Barry Maternowski Engineering Inspector

<u>Phase I</u> November 22, 1996 - 8 hours Installing odor control @ vent stacks

December 23, 1996 - 4 hours Air sampling conducted

<u>Phase II</u>

October 1, 1996 - 2 hours Inspection

October 2, 1996 - 2 hours Inspection

October 3, 1996 - 2 hours Inspection

October 4, 1996 - 2 hours Inspection

October 9, 1996 - 1 hour Inspection

October 10, 1996 - 1 hour Inspection

October 11, 1996 - 2 hours Inspection

October 14, 1996 - 1 hour Inspection

October 15, 1996 - 3 hours Inspection

October 17, 1996 - 2 hours Inspection

October 18, 1996 - 2 hours Inspection

October 21, 1996 - 1 hour Inspection

October 22, 1996 - 2 hours Inspection October 23, 1996 - 2 hours Inspection October 24, 1996 - 2 hours Inspection October 25, 1996 - 2 hours Inspection October 28, 1996 - 2 hours Inspection October 29, 1996 - 2 hours Inspection November 1, 1996 - 1 hour Inspection November 4, 1996 - 1 hour Inspection November 5, 1996 - 1 hour Inspection November 6, 1996 - 2 hours Inspection November 7, 1996 - 3 hours Inspection

November 11, 1996 - 1 hour Inspection

November 12, 1996 - 2 hours Inspection November 13, 1996 - 2 hours Inspection November 14, 1996 - 2 hours Inspection November 15, 1996 - 1 hour Inspection November 20, 1996 - 2 hours Inspection December 2, 1996 - 2 hours Inspection December 3, 1996 - 2 hours Inspection December 5, 1996 - 2 hours Inspection December 6, 1996 - 2 hours Inspection December 9, 1996 - 2 hours Inspection December 10, 1996 - 2 hours Inspection December 11, 1996 - 1 hour Inspection December 12, 1996 - 2 hours Inspection December 13, 1996 - 2 hours Inspection December 16, 1996 - 2 hours Inspection

December 17, 1996 - 1 hour Inspection

December 18, 1996 - 1 hour Inspection

December 19, 1996 - 1 hour Inspection

- December 20, 1996 1 hour Inspection
- December 23, 1996 1 hour Inspection
- December 24, 1996 1 hour Inspection
- December 26, 1996 1 hour Inspection
- December 27, 1996 1 hour Inspection

12 hours total for Phase I 78 hours total for Phase II NORTH DALLAS COUNTY WATER SUPPLY CORPORATION BALANCE SHEET ALL FUNDS DECEMBER 31, 1996

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OPERATING CAPITAL FUND FUND FUND		\$0 \$83,797 \$83,797 \$83,797 83,782 83,782 64,507	<u>\$0</u> <u>\$232.086</u> <u>\$232.086</u>		\$0 \$0 \$0 \$0 2,280 2,280 147,973 147,973	\$0 \$150,253 \$150,253	\$0 \$43,632 \$43,632 \$43,632 \$0 38,201 38,201	\$0 \$81,833 \$81,833	\$0 \$232,086 \$232,086
	ASSETS	Cash Accounts Receivable - Addison Accounts Receivable - Farmers Branch	Total Assets	TOTAL LIABILITIES AND FUND BALANCE	Accounts Payable Liability to Quebecor * Retainage Payable		Fund Balance - Addison Fund Balance - Farmers Branch	Total Fund Balance	Total Liabilities and Fund Balance

Developer Contribution Outstanding

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NORTH DALLAS COUNTY WATER SUPPLY CORPORATION STATEMENT OF REVENUES AND EXPENDITURES BUDGET AND ACTUAL FOR THE MONTH ENDING DECEMBER 31, 1996 OPERATING FUND (20) (0<u>8</u>) YEAR TO DATE LIFE TO DATE 244 12,709 82,684 Ş 664 \$1,129,389 3,200 1,046,705 \$1,129,389 C \$8,922 44,961 \$1,128,725 8,737 3,911 ACTUAL 0 80 20 0 Ş \$754 \$754 0 \circ \$ ACTUAL 80 \$0 8 \$0 00 000000 \circ 0 \$0 8 8 DECEMBER ACTUAL 1996 3,000 1,000 1,200 1,200 700 11,000 \bigcirc 8 \$ C \$1,600 \$11.000 \$11,000 \$11,000 ADOPTED BUDGET 96-97 80 3,000 3,200 4,000 16,500 \$16,500 1,000 600 \circ \$16,500 \$16,500 \$4,700 8 AMENDED BUDGET 95-96 Transfer from Capital Projects Fund Interest income and miscellaneous Transfer to Capital Projects Fund Charges to participant cities **BEGINNING FUND BALANCE** TOTAL EXPENDITURES Total General Overhead ENDING FUND BALANCE **OVER EXPENDITURES EXCESS OF REVENUES Project Administration** TOTAL REVENUES **EXPENDITURES**: Miscellaneous Bank Fees Audit Fees Insurance **REVENUES:** Supplies Legal

DEC96FIN.WK1

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION STATEMENT OF REVENUES AND EXPENDITURES BUDGET AND ACTUAL FOR THE MONTH ENDING DECEMBER 31, 1996 CAPITAL PROJECTS FUND

68,363 30,722 LIFE TO DATE 27,213 1,046,705 \$15,252,449 15,170,616 ¢ \$15,170,616 \$81,833 <u>\$81,833</u> 13,072,060 \$14,178,531 \$1,999,471 ACTUAL 38,300 \$0 32,000 7.000 \$18,150,000 ¢ \$18,150,000 \$ \$17,096,295 1,046,705 \$2,500,000 15,579,700 18,150,000 PROJECT BUDGET YEAR TO DATE \$5,658 1,216 \$6,874 \$1,216 \$5,658 00 5,658 0 \$5,658 \$118.371 C O \$117,155 ACTUAL \$5,658 \$6,065 \$5,658 407 \$5,658 00 5,658 0 \$407 \$407 0 DECEMBER ACTUAL 1996 3 3.000 5,000 30,000 O \$27,000 C \$30,000 Ċ \$30,000 Ş \sim \$25,000 ADOPTED BUDGET 96-97 8,000 40,500 \$ 3,700 0 \$4,325,000 AMENDED \$4,317,000 C \$4,325,000 3,712,800 8 \$568,000 4,325,000 BUDGET 95-96 Engineering, Design & Inspection Transfer from Operating Fund Charges to participant cities Transfer to Operating Fund **BEGINNING FUND BALANCE** TOTAL EXPENDITURES Land/R.O.W. Acquisition ENDING FUND BALANCE **Contract Administration** OVER EXPENDITURES **EXCESS OF REVENUES** TOTAL REVENUES Total Development Interest Income **EXPENDITURES:** Construction **REVENUES:**

DEC96FIN.WK1

Capital Projects Fund Description	11-30-96	DR	<u> </u>	12-31-96
Cash	110,705.63	22,707.50	49,615.23	83,797.90
Accounts Receivable	0.00			0.00
Due from Farmers Branch	64,507.21			64,507.21
Due from Addison	100,424.40		16,642.73	83,781.67
Due from Other Funds	0.00		,	0.00
Construction in Progress	0.00			0.00
Accounts Payable	0.00			0.00
Quebecor Liability	(2,280.36)			(2,280,36)
Retainage Payable	(191,929.85)	43,957.23		(147,972.62)
Due to Other Funds	0.00			0.00
Investment in GFA	0.00			0.00
Fund Balance - FB	(37,654.93)			(37,654.93)
Fund Balance - Addison	(42,962.95)			(42,962.95)
Charges to Farmers Branch	0.00		2,444.82	(2,444.82)
Charges to Addison	0.00		3,213.18	(3,213,18)
Interest Income-FB	(364.12)		183.05	(547.17)
Interest Income-Addison	(445.03)		223.72	(668.75)
Eng, Design, Inspect-FB	0.00	2,444.82		2,444.82
Eng, Design, Inspect-Addison	0.00	3,213.18		3,213.18
Construction-FB	0.00			0.00
Construction-Addison	0.00			0,00
Contract Administration - FB	0.00			0.00
Contract Administration - Addison	0.00			0.00
Land/ROW-FB	0.00			0.00
Land/ROW-Addison	0.00			0.00
Operating Transfers In-FB	0.00			0.00
Operating Transfers In-Addison	0.00			0,00
Operating Transfers Out-FB	0.00			0.00
Operating Transfers Out-Addison	0.00			0.00
Total	0.00	72,322.73	72,322.73	0.00

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OPERATING FUND		
To Record December Cash Disbursemer	nts	
Project Admin - Farmers Branch		
Project Admin - Addison		
Legal - Farmers Branch		
Legal - Addison		
Audit - Farmers Branch Audit - Addison		
Bank - Farmers Branch		
Bank - Addison		
Misc - Farmers Branch		
Misc - Addison		
Accounts Payable Cash	0.00	0.00
Casil		0.00
To Record December Cash Receipts		
Cash	0.00	
Accounts Receivable - Farmers Branch		0.00
Accounts Receivable - Addison		0.00
TOTAL OPERATING	0.00	0.00

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CAPITAL PROJECTS FUND			
To Record December Cash Disburser	ments		
Design - Farmers Branch Design - Addison Construction - Farmers Branch Construction - Addison Project Mgt - FB Project Mgt - Addison Land/ROW - Farmers Branch Land/ROW - Addison Quebecor Liability	2,444.82 3,213.18		
Retainage Payable Cash	43,957.23	49,615.23	
To Record December Cash Receipts			
Cash	22,707.50		
Interest Income-Farmers Branch Interest Income-Addison	annang y Grif (Griffer	183.05 223.72	
Contributions - Farmers Branch Contributions - Addison Accts Receivable - Addison		2,444.82 3,213,18 16,642,73	
TOTAL CIP	72,322.73	72,322.73	
TOTAL ALL FUNDS	72,322.73	72,322.73	

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BANK RECONCILIATION DECEMBER 31, 1996	
Book Balance November 30, 1996	110,705.65
December Receipts Disbursements	22,707.50 (49,615.23)
Book Balance December 31, 1996	83,797.92
Bank Statement Balance December 31, 1996	89,455.92
Outstanding Deposits	0.00
Outstanding Checks (1171)	(5,658.00)
Book Balance December 31, 1996	83,797.92

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REC'D SEP 3 0 1996



CC Ron Whitehead SYI 10.1.96 SRB

September 27, 1996

Mr. Wilbur Van Riper, P.E. Project Manager Consoer, Townsend Environdyne Engineers, Inc. 10700 Richmond Avenue, Suite 275 Houston, Texas 77042

Subject: North Dallas County Water Supply Corporation Sanitary Interceptor Sewer Phase I Odor Control at Tunnel Air Vents

Dear Mr. Van Riper:

Please proceed with the odor control measures as proposed by Unisorb Corp. (See Attached)

This work is to be accomplished under your contract with the NDCWSC. The corporation will reimburse CTE Engineers upon invoicing after the work is completed.

Sincerely,

Gary M. Oshel, P.E. Project Manager

GMO/nm httmdwselvanrodor.tur Attachment cc: John Baumgartner, Town of Addison



RECEIVED SEP 2 4 1996 ENGINEEMING DEPT.

September 13,1996

Mr. Jerry Murawski, P.E. North Dallas County Water Supply Corporation Post Office Box 819010 City of Farmers Branch, Texas 75381-9010

Re: Odor Control At Tunnel Air Vents

Dear Mr. Murawski:

Unisorb propose to build sections to insert in top and bottom of existing exhaust pipe and load pipe with activated impregnated carbon for odor control. The bottom section is a 8" T with flanges as shown on attached drawing. The top cover would allow the air to escape and keep rain water out of carbon media. All parts would be painted dark green in accordance with paint color specifications furnished by city.

Unisorb would offer complete service with fabrication of parts, delivery, and installation. Parts include the following:

- 1. Tees with flanges, blank & perf x 4
- 2. Tops per drawing x 4
- 3. section 8' iron pipe with flanges x = 1
- 4. AGB 248 carbon 90 lbs. eachx45. 16 guage stainless steel insertx1
- 5. 16 guage stainless steel insert x at base of existing 8" DIP U fitting

Total price for 4 units installed = \$5372

We should be able to be on the job within one week after approval with order.

Unisorb will require City of Farmers Branch equipment and operator assistance in removing and replacing existing 8" vent pipes so that Tees and Cap can be installed. It is estimated that the time required would be one afternoon and the following morning.

If one replacement change of carbon is requested, the additional cost would be \$525 for all four vents. The total cost for the installation plus the replacement change would be \$5372 + \$525 = \$5897. The cost of the carbon pellets are \$1.50/pound. There are 35 pounds/box and approximately 10 boxes will be required for replacement for all four vents.

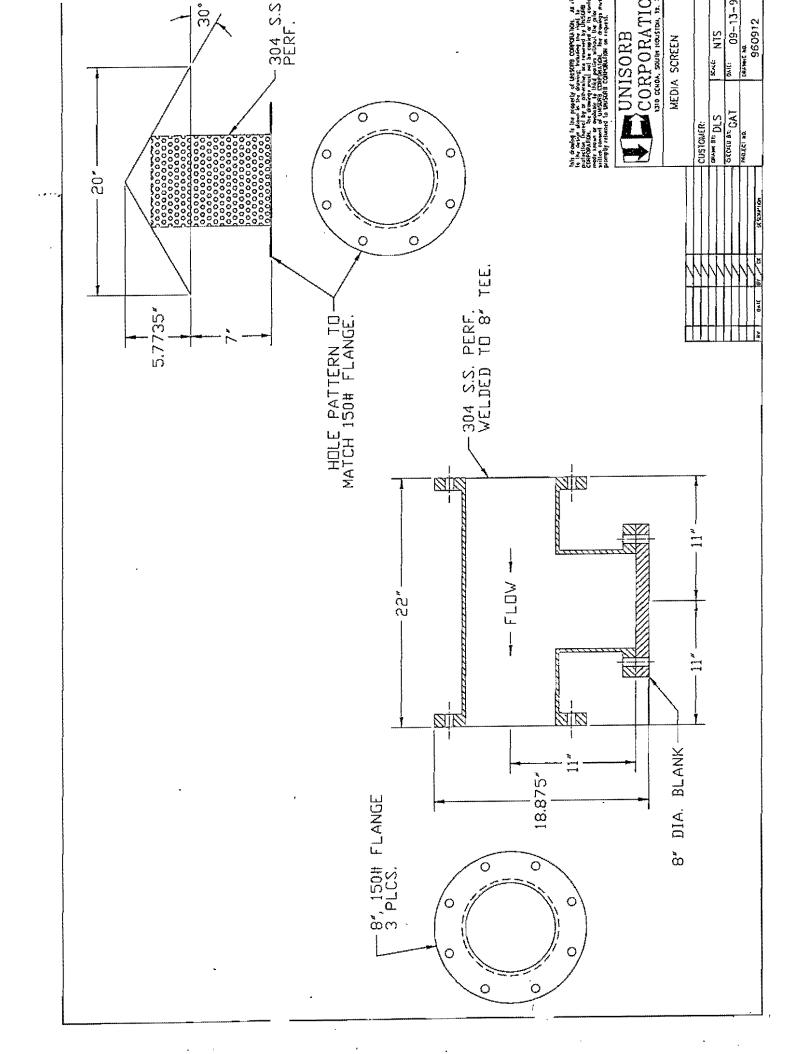


Thanks, for considering Unisorb. We look forward to working with you on this project and any other odor control projects that require our services.

Very truly yours, Unisorb Corporation

Vap?

Joel Taylor, Municipal Manager





MEMORANDUM

October 21, 1996

TO: Charles Cox, Director of Finance

FROM: Jerome Murawski, Jr., City Engineer

SUBJECT: NDCWSC Contract Administration

The attached detail of tasks reflect City of Farmers Branch Engineering staff time for the NDCWSC Interceptor Sewer. The project manager agreement was executed April 15, 1993 and Engineering staff time is for the months of July, August, and September, 1996.

<u>Phase I:</u> Project Engineer Engineering Inspector

18 hours 0 hours

<u>Phase II:</u> Project Engineer Engineering Inspector

18 hours 160 hours

Please invoice the Cities per agreement including any time for financial administration and public relations and administrative services.

JVM:nm attachments

cc: John Baumgartner, P.E. Town of Addison

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GARY OSHEL PROJECT ENGINEER

PHASE I

July 17, 1996 - 2 hours Meeting with Consoer, Townsend & Associates to discuss post video

August 6, 1996 - 1 hour NDCWSC Board meeting

August 7, 1996 - 3 hours Meeting with Consoer, Townsend & Associate and Seven K regarding post video Tunnel- on site during video

August 8, 1996 - 2 hours Post video

August 9, 1996 - 2 hours Post video

- August 16, 1996 6 hours Post video
- September 13, 1996 2 hours Meeting with vendor and TRA regarding sewer odor

17 hours total for Phase I

GARY OSHEL PROJECT ENGINEER

<u>PHASE II</u>

July 1, 1996 - 1 hour Check progress

July 10, 1996 - 2 hours Monthly meeting, check progress

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July 15, 1996 - 1 hour Process pay request

July 17, 1996 - 1 hour Check progress

July 29, 1996 - 1 hour Review NDCWSC budget

August 8, 1996 - 2 hours Process pay request

August 9, 1996 - 1 hour Check progress

August 12, 1996 - 1 hour Check progress

August 14, 1996 - 1 hour Check progress

August 19, 1996 - 1 hour Check progress

August 22, 1996 - 1 hour Check progress

August 29, 1996 - 1 hour Check progress

September 5, 1996 - 1 hour Check progress September 18, 1996 - 1 hour Check progress

September 27, 1996 - 2 hours Check progress

18 hours total for Phase II

Barry Maternowski Engineering Inspector

Phase II

July 1, 1996 - 2 hours Inspection)

- July 2, 1996 2 hours Inspection
- July 3, 1996 2 hours Inspection
- July 8, 1996 4 hours Inspection
- July 9, 1996 3 hours Inspection
- July 10, 1996 3 hours Inspection
- July 11, 1996 3 hours Inspection
- July 12, 1996 3 hours Inspection
- July 13, 1996 5 hours Inspection
- July 15, 1996 3 hours Inspection
- July 16, 1996 3 hours Inspection
- July 17, 1996 3 hours Inspection
- July 18, 1996 3 hours Inspection
- July 19, 1996 3 hours Inspection

- July 22, 1996 3 hours Inspection
- July 23, 1996 3 hours Inspection
- July 24, 1996 1 hour Inspection
- July 25, 1996 1 hour Inspection
- July 26, 1996 2 hours Inspection
- July 29, 1996 3 hours Inspection
- July 30, 1996 3 hours Inspection
- July 31, 1996 2 hours Inspection
- August 1, 1996 4 hours Inspection
- August 2, 1996 1 hour Inspection
- August 5, 1996 1.5 hours Inspection
- August 6, 1996 1 hour Inspection
- August 7, 1996 1.5 hours Inspection
- August 8, 1996 3 hours Inspection

August 9, 1996 - 3 hours Inspection

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- August 12, 1996 3 hours Inspection
- August 13, 1996 4 hours Inspection
- August 14, 1996 4 hours Inspection
- August 15, 1996 4 hours Inspection
- August 16, 1996 4 hours Inspection
- August 19, 1996 4 hours Inspection
- August 20, 1996 3 hours Inspection
- August 21, 1996 4 hours Inspection
- August 22, 1996 4 hours Inspection
- August 23, 1996 4 hours Inspection
- August 26, 1996 3 hours Inspection
- August 27, 1996 2 hours Inspection
- August 28, 1996 1 hour Inspection
- August 29, 1996 2 hours Inspection

- September 4, 1996 2 hours Inspection
- September 5, 1996 2 hours Inspection
- September 6, 1996 2 hours Inspection
- September 9, 1996 1 hour Inspection
- September 10, 1996 2 hours Inspection
- September 11, 1996 3 hours Inspection
- September 12, 1996 3 hours Inspection
- September 13, 1996 2 hours Inspection
- September 16, 1996 2 hours Inspection
- September 17, 1996 2 hours Inspection
- September 18, 1996 2 hours Inspection
- September 19, 1996 2 hours Inspection
- September 20, 1996 1 hour Inspection
- September 24, 1996 4 hours Inspection
- September 25, 1996 1 hour Inspection

September 26, 1996 - 4 hours Inspection

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September 27, 1996 - 2 hours Inspection

September 30, 1996 - 2 hours Inspection

160 hours total for Phase II



MEMORANDUM

January 8, 1996

To: Charles Cox, Director of Finance

From: Jerome V. Murawski, Jr., P.E., City Engineer

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Subject: NDCWSC Contract Adminitration

The attached detail of tasks reflect City of Farmers Branch Engineering staff time for the NDCWSC Interceptor Sewer. The project manager agreement was executed April 15, 1993 and Engineering staff time is for the months of October, November, and December, 1995.

Phase I:	
Project Engineer	38 hours
Engineering Inspection	0 hours
Engineering Technician	5 hours

Phase II:	
Project Engineer	38 hours
Engineering Inspection	256.3 hours
Engineering Technician	9 hours

Please invoice the Cities per agreement including any time for financial administration and public relations and administrative services.

JVM:nm attachments

cc: John Baumgartner, P.E. Town of Addison

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GARY OSHEL PROJECT ENGINEER

PHASE I

October 3, 1995 - 2 hours Prepare Change Order No. 2 for the Board

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October 4, 1995 - 2 hours Process Consoer Townsend and Associates (CTA) pay request; check progress of project

October 5, 1995 - 5 hours View video of tunnel

October 6, 1995 - 3 hours View video of tunnel; meeting with CTA and Phase II contractor to determine if Manhole 2, 6 and 29 can be used on Phase II

October 9, 1995 - 1 hour Check progress of project

October 10, 1995 - 2 hours Review video of tunnel

October 11, 1995 - 2 hours Inspect manholes

October 12, 1995 - 2 hours Prepare board agenda items

October 16, 1995 - 1 hour Check progress of project

October 17, 1995 - 2 hours NDCWSC Board meeting

October 18, 1995 - 1 hour Check progress of project

October 19, 1995 - 1 hour Check progress of project

October 20, 1995 - 1 hour Check progress of project October 23, 1995 - 2 hours Process contractor's pay request

October 24, 1995 - 1 hour Check progress of project

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October 30, 1995 - 1 hour Check progress of project

November 1, 1995 - 1 hour Review Change Order for vent stack relocation

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November 7, 1995 - 1 hour Check progress of project

November 8, 1995 - 1 hour Check progress of project

November 14, 1995 - 3 hours CTA/Seven K monthly meeting; progress CTA's pay request; and Change Order No. 3

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November 15, 1995 - 1 hour Check progress of project

November 16, 1995 - 1 hour Check progress of project

December 12, 1995 - 1 hour Process pay request

Total Hours: 38

GARY OSHEL PROJECT ENGINEER

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<u>PHASE II</u>

October 4, 1995 - 1 hour Check progress of project

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October 5, 1995 - 1 hour Check progress of project

October 6, 1995 - 2 hours Meeting with Brookhaven Community College re: Phase II Work

October 9, 1995 - 1 hour Check progress of project

October 11, 1995 - 2 hours Shimek, Jacob & Finklea (SJF) and John Burns Construction monthly meeting; check progress of project

October 16, 1995 - 1 hour Check progress of project

October 18, 1995 - 1 hour Check progress of project

October 19, 1995 - 1 hour Check progress of project

October 20, 1995 - 1 hour Check progress of project

October 23, 1995 - 2 hours Investigate TU Electric's conflict; review credit for Manhole

October 24, 1995 - 1 hour Check progress of project

October 31, 1995 - 1 hour Check progress of project

November 1, 1995 - 2 hours Monthly meeting with SJF and John Burns November 3, 1995 - 2 hours Meeting with TU Electric re: conflict with underground cable

1

November 6, 1995 - 1 hour Check progress of project

November 7, 1995 - 1 hour Check progress of project

November 8, 1995 - 3 hours NDCWSC Board meeting; meeting on site with contractor and TU Electric

1

November 13, 1995 - 1 hour Check progress of project

November 14, 1995 - 2 hours TU Electric conflict with sewer

November 15, 1995 - 2 hours TU Electric conflict

November 16, 1995 - 1 hour Check progress on project

November 28, 1995 - 1 hour Check progress on project

December 6, 1995 - 2 hours Monthly meeting with SJF and John Burns

December 7, 1995 - 1 hour Check progress on project

December 11, 1995 - 3 hours Process pay requests

December 28, 1995 - 1 hour Review pay request

Total Hours: 38

Chris Harrington Engineering Technician

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Phase I

November 3, 1995 - 2 hours Conversations with resident Mrs. Bulino

November 6, 1995 - 1 hour Conversations with resident Mrs. Bulino

November 8, 1995 - 2 hours Conversations with resident Mrs. Bulino

Total Hours: 5

<u>Phase II</u>

November 2, 1995 - 2 hours TU Electric lines

November 3, 1995 - 3 hours TU Electric lines

November 6, 1995 - 2 hours TU Electric lines

November 7, 1995 - 2 hours TU Electric lines

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Total Hours: 9

Barry Maternowski Engineering Inspector

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Phase II (9/95 through 12/95)

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September 12, 1995 - 1 hour Preconstruction meeting

September 25, 1995 - 3 hours Inspection

September 26, 1995 - 3 hours Inspection

September 27, 1995 - 3 hours Inspection

September 28, 1995 - 3 hours Inspection

September 29, 1995 - 2 hours Inspection

October 2, 1995 - 5 hours Inspection

October 3, 1995 - 1.5 hours Inspection

October 4, 1995 - 1 hour Inspection

October 5, 1995 - 5 hours Inspection

October 6, 1995 - 4 hours Inspection

October 9, 1995 - 4 hours Inspection

October 10, 1995 - 4 hours Inspection

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October 11, 1995 - 4.3 hours Monthly meeting; inspection October 12, 1995 - 4 hours Inspection

 $\sum_{i=1}^{n}$

October 13, 1995 - 3 hours Inspection

October 16, 1995 - 3 hours Inspection

October 17, 1995 - 4 hours Inspection

October 18, 1995 - 4 hours Inspection

October 19, 1995 - 4 hours Inspection

October 20, 1995 - 3 hours Inspection

October 23, 1995 - 5 hours Inspection

October 24, 1995 - 3 hours Inspection

October 25, 1995 - 4 hours Inspection

October 26, 1995 - 5 hours Inspection

October 27, 1995 - 5 hours Inspection

October 30, 1995 - 4 hours Inspection

October 31, 1995 - 4 hours Inspection)

November 1, 1995 - 4 hours Monthly progress meeting; inspection November 2, 1995 - 5 hours Inspection November 3, 1995 - 4 hours Inspection November 6, 1995 - 3 hours Inspection November 7, 1995 - 5 hours Inspection November 8, 1995 - 5 hours Inspection November 9, 1995 - 5.5 hours Inspection November 10, 1995 - 5 hours Inspection November 13, 1995 - 5 hours Inspection November 14, 1995 - 6 hours Inspection November 15, 1995 - 5 hours Inspection November 16, 1995 - 4.5 hours Inspection November 17, 1995 - 5 hours Inspection November 20, 1995 - 5.5 hours Inspection

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November 21, 1995 - 4.5 hours Inspection November 22, 1995 - 5 hours Inspection November 27, 1995 - 2 hours Inspection November 28, 1995 - 5 hours Inspection November 29, 1995 - 5 hours Inspection November 30, 1995 - 5 hours Inspection December 1, 1995 - 5 hours Inspection December 4, 1995 - 5 hours Inspection December 5, 1995 - 3 hours Inspection December 6, 1995 - 6 hours Monthly meeting; inspection December 7, 1995 - 5 hours Inspection December 8, 1995 - 3 hours Inspection December 11, 1995 - 4 hours Inspection December 12, 1995 - 3 hours Inspection December 13, 1995 - 2.5 hours Inspection

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December 14, 1995 - 2 hours Inspection December 15, 1995 - 2 hours Inspection December 18, 1995 - 2 hours Inspection December 19, 1995 - 3 hours Inspection December 20, 1995 - 4 hours Inspection December 21, 1995 - 4 hours Inspection December 22, 1995 - 4 hours Inspection December 27, 1995 - 5 hours Inspection December 28, 1995 - 5 hours Inspection December 29, 1995 - 5 hours Inspection Total Hours: 265.3

)

August 14, 1996

TO: Charles Cox, Director of Finance

FROM: Jerome Murawski, Jr., City Engineer

SUBJECT: NDCWSC Contract Administration

The attached detail of tasks reflect City of Farmers Branch Engineering staff time for the NDCWSC Interceptor Sewer. The project manager agreement was executed April 15, 1993 and Engineering staff time is for the months of April, May, and June, 1996.

Phase I:Project Engineer10 hoursEngineering Technician0 hoursEngineering Inspector0 hoursPhase II:Project EngineerProject Engineer31 hoursEngineering Technician0 hoursEngineering Inspector211 hours

Please invoice the Cities per agreement including any time for financial administration and public relations and administrative services.

JVM:nm attachments

cc: John Baumgartner, P.E. Town of Addison

B:\SISTIME.AM/NDCWSC

GARY OSHEL PROJECT ENGINEER

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PHASE I

- April 1, 1996 1 hour Review retainage bond form
- April 2, 1996 1 hours Review retainage bond form with Attorney

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- April 15, 1996 2 hours Process pay request for contractor (Seven K Construction)
- April 22, 1996 3 hour Review and process Consoer, Townsend & Associates's pay request
- May 20, 1996 2 hour Review submittal of photographs
- May 28, 1996 1 hour Check progress of project

10 hours total for Phase I

GARY OSHEL PROJECT ENGINEER

)

PHASE II

- April 2, 1996 1 hour Process pay request for contractor (Burns Constructors)
- April 3, 1996 2 hours Monthly meeting; review pay request
- April 15, 1996 1 hour Check progress of project
- April 16, 1996 1 hour Process Shimek Jacobs and Finklea's pay request

April 29, 1996 - 1 hour Check progress of project

- May 1, 1996 1 hour Monthly meeting
- May 7, 1996 2 hours Process pay request for Burns
- May 9, 1996 1 hour Check progress of project
- May 14, 1996 2 hours Check progress of project; process pay request for Burns
- May 22, 1996 2 hours Meeting with Shimek Jacobs & Finklea, Burns, regarding schedule and utility locates
- May 23, 1996 1 hour Check progress of project
- May 28, 1996 1 hour Check progress of project
- May 31, 1996 1 hour Check progress of project
- June 3, 1996 1 hour Check progress of project

June 5, 1996 - 3 hours Monthly meeting; check progress of project

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June 10, 1996 - 2 hours Discuss conflicts at Inwood/Spring Valley; check progress of project

June 11, 1996 - 2 hours Meeting with Shimek Jacobs & Finklea and Burns Constructors regarding utility conflicts at Inwood/Spring Valley

June 14, 1996 - 2 hours Process pay request; check progress of project

June 18, 1996 - 1 hour Check progress of project

June 20, 1996 - 1 hour Check progress of project

June 26, 1996 - 2 hours Inspect channel lining to determine limits of correction

31 hours total for Phase II

CHRIS HARRINGTON Engineering Technician

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Phase I-0-Phase II-0-

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0 hours on Phase I and Phase II for Chris Harrington

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Barry Maternowski Engineering Inspector

Phase II

April 1, 1996 - 3 hours Inspection of project

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- April 2, 1996 3 hours Inspection of project
- April 3, 1996 3 hours Inspection of project
- April 4, 1996 3 hours Inspection of project
- April 8, 1996 3 hours Inspection of project
- April 9, 1996 3 hours Inspection of project
- April 10, 1996 3 hours Inspection of project
- April 11, 1996 3 hours Inspection of project
- April 12, 1996 3 hours Inspection of project
- April 13, 1996 4.5 hours Inspection of project
- April 15, 1996 3 hours Inspection of project
- April 16, 1996 3 hours Inspection of project
- April 17, 1996 3 hours Inspection of project
- April 18, 1996 3 hours Inspection of project

<u>cont. Phase II</u>

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April 19, 1996 - 2 hours Inspection of project

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- April 22, 1996 2 hours Inspection of project
- April 23, 1996 3 hours Inspection of project
- April 24, 1996 3 hours Inspection of project
- April 25, 1996 3 hours Inspection of project
- April 26, 1996 4 hours Inspection of project
- April 29, 1996 3 hours Inspection of project
- April 30, 1996 4 hours Inspection of project
- May 1, 1996 3 hours Inspection of project
- May 2, 1996 3 hours Inspection of project
- May 3, 1996 3 hours Inspection of project
- May 6, 1996 3 hours Inspection of project
- May 7, 1996 3 hours Inspection of project
- May 8, 1996 3 hours Inspection of project
- May 9, 1996 3 hours Inspection of project

cont. Phase II

May 10, 1996 - 3 hours Inspection of project

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- May 13, 1996 3 hours Inspection of project
- May 14, 1996 3 hours Inspection of project
- May 15, 1996 3 hours Inspection of project
- May 16, 1996 3 hours Inspection of project
- May 17, 1996 3 hours Inspection of project
- May 18, 1996 2 hours Inspection of project
- May 20, 1996 3 hours Inspection of project
- May 21, 1996 3 hours Inspection of project
- May 22, 1996 3 hours Inspection of project
- May 23, 1996 3 hours Inspection of project
- May 24, 1996 2 hours Inspection of project
- May 25, 1996 2 hours Inspection of project
- May 29, 1996 3 hours Inspection of project
- May 30, 1996 3 hours Inspection of project

cont. Phase II

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May 31, 1996 - 3 hours Inspection of project • •

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- June 3, 1996 3 hours Inspection of project
- June 4, 1996 3 hours Inspection of project
- June 5, 1996 3 hours Inspection of project
- June 6, 1996 3 hours Inspection of project
- June 7, 1996 3 hours Inspection of project
- June 8, 1996 15 hours Inspection of project
- June 10, 1996 2 hours Inspection of project
- June 11, 1996 3 hours Inspection of project
- June 12, 1996 3 hours Inspection of project
- June 13, 1996 6.5 hours Inspection of project
- June 14 1996 3 hours Inspection of project
- June 15, 1996 2 hours Inspection of project
- June 17, 1996 3 hours Inspection of project
- June 18, 1996 3 hours Inspection of project

cont. Phase II

June 19, 1996 - 3 hours Inspection of project

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- June 20, 1996 3 hours Inspection of project
- June 21, 1996 2 hours Inspection of project
- June 24, 1996 3 hours Inspection of project
- June 25, 1996 3 hours Inspection of project
- June 26, 1996 2 hours Inspection of project
- June 27, 1996 3 hours Inspection of project
- June 28, 1996 3 hours Inspection of project

211 hours total for Phase II

June 27, 1996

ENGINEERING PLANNING							
MANAGEMENT	North Dallas County Water Supply Corporation						
	P.O. Box 819010						
	City of Farmers Branch, TX 75381-9010						
	Attn: Mr. Gary Oshel, P.E.						
	Re: Sanitary Interceptor Sewer Tunnel, Contract Dated November 16, 1993						
10700 RICHMOND AVENL							
	As you requested, we are sending you one mylar original set, and one electronic file set (AutoCad Release 12) of the record drawings for the above referenced project.						
SUITE 275	This is in lieu of the two mylar original sets requested in the contract.						
	If I can be of further assistance, please contact me.						
	Very truly yours,						
HOUSTON, TX 77042	CONSOER, TOWNSEND & ASSOCIATES, INC.						
	Har yz-						
	for Wilbur Van Riper, P.E.						
FAX 713/780-7193	Program Manager						
	Enclosures						
	cc: Jerry Murawski						
713/780-7168	John Baumgartner						

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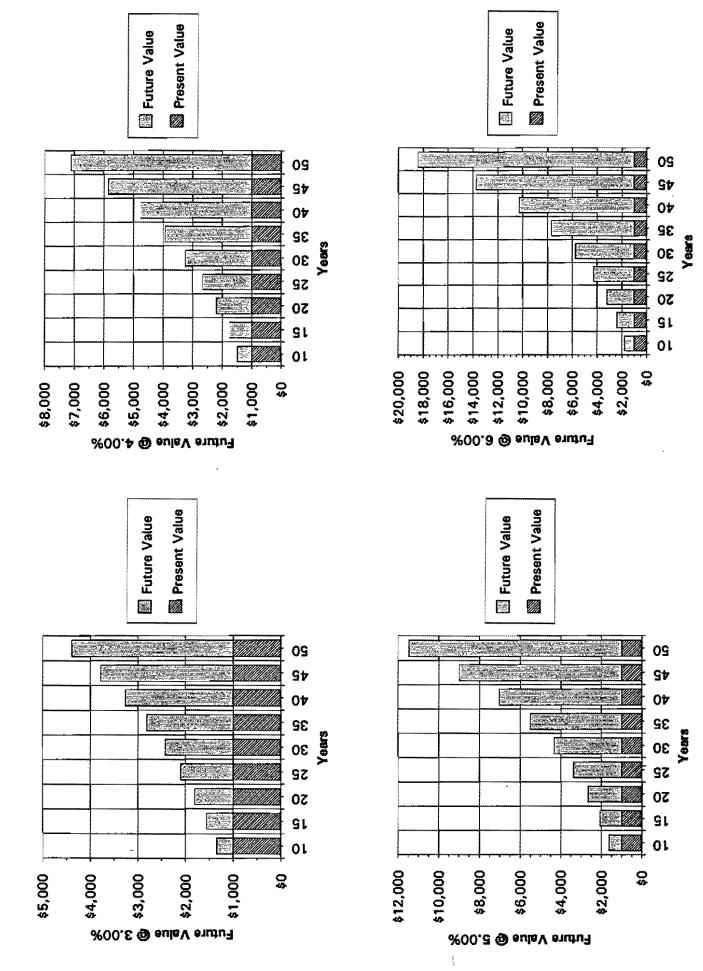


Troy P. Norris Director of Technical Services CONCRETE PRODUCTS DIVISION

Gifford-Hill & Company

2515 McKinney Avenue • Dallas, Texas 75201 P.O. Box 190999 • Dallas, Texas 75219-0999

214/754-5861 Fax: 214/754-5868 Mobile: 214/707-8118 Res: 214/696-1505

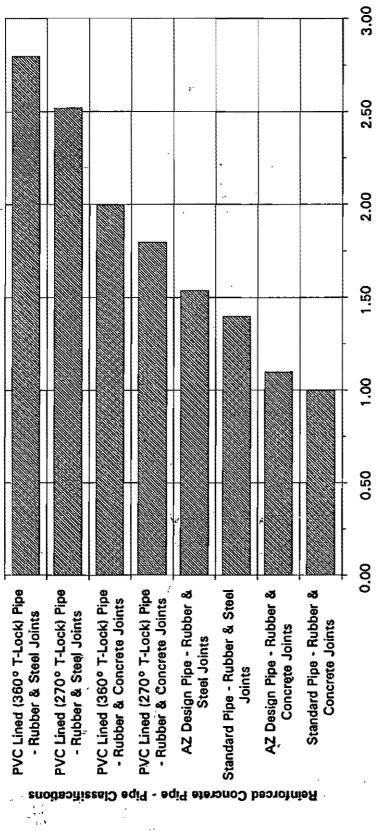


Future Values

FILE NDCWSC

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Present Values



Type Of Reinforced Concrete Pipe	Baseline Costs
Standard Pipe - Rubber & Concrete Joints	1.00
AŻ Design Pipe - Rubber & Concrete Joints	1.10
Standard Pipe - Rubber & Steel Joints	1.40
AZ Design Pipe - Rubber & Steel Joints	1.54
PVC Lined (270° T-Lock) Pipe - Rubber & Concrete Joints	1.80
PVC Lined (360° T-Lock) Pipe - Rubber & Concrete Joints	2.00
PVC Lined (270° T-Lock) Pipe - Rubber & Steel Joints	2.52
PVC Lined (360° T-Lock) Pipe - Rubber & Steel Joints	2.80

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Indexes

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		\$1,000	\$1,000	\$1,000	\$1,000	
j		@3%	@4%	@5%	@6%	
YE	FAR	COMPOL	COMPOUND	COMPOUND	COMPOUND	
× ++++	1	1,030	1,040	1,050	1,060	
		1,061	1,082	1,103	1,124	
	2 3	1,093	1,125	1,158	1,191	
	4	1,126	1,170	1,216	1,262	
		1,159	1,217	1,276	1,338	
	5 6 7	1,194	1,265	1,340	1,419	
	7	1,230	1,316	1,407	1,504	
	8	1,267	1,369	1,477	1,594	
	9	1,305	1,423	1,551	1,689	
100.470 10. 300.07	10	1,344	1,480	1,629	1,791	
	11	1,384	1,539	1,710	1,898	
	12	1,426	1,601	1,796	2,012	
	13	1,469	1,665	1,886	2,133	
	14	1,513	1,732	1,980	2,261	
	15	1,558	1,801	2,079	2,397	
	16	1,605	1,873	2,183	2,540	
	17	1,653	1,948	2,292	2,693	
	18	1,702	2,026	2,407	2,854	
	19	1,754	2,107	2,527	3,026	
	20	1,806	2,191	2,653	3,207	
	21	1,860	2,279	2,786	3,400	
	22	1,916	2,370	2,925	3,604	
	23	1,974	2,465	3,072	3,820	
	24	2,033	2,563	3,225	4,049	
	25	2,094	2,666	3,386	4,292	
	26	2,157	2,772	3,556	4,549	
	27	2,221	2,883	3,733	4,822	
	28	2,288	2,999	3,920	5,112	
	29	2,357	3,119	4,116	5,418	
	30	2,427	3,243	4,322	5,743	
	31	2,500	3,373	4,538	6,088	
	32	2,575	3,508	4,765	6,453	
	33	2,652	3,648	5,003	6,841	
4	34	2,732	3,794	5,253	7,251	
	35	2,814	3,946	5,516	7,686	
	36	2,898	4,104	5,792	8,147	
	37	2,965	4,268	6,081	8,636	
	38	3,075	4,439	6,385	9,154	
	39	3,167	4,616	6,705	9,704	
	40	3,262	4,801	7,040	10,286	
	41	3,360	4,993	7,392	10,903	
÷	42	3,461	5,193	7,762	11,557	** ****
	43	3,565	5,400	8,150	12,250	
	44	3,671	5,617	8,557	12,985	
	45	3,782	5,841	8,985	13,765	
	46	3,895	6,075	9,434	14,590	
	47	4,012	6,318	9,906	15,466	
	48	4,132	6,57 1	10,401	16,394	
	49	4,256	6,833	10,921	17,378	
	50	4,384	7,107	11,467	18,420	
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PUBLIC WORKS DEPARTMENT

Post Office Box 144 Addison, Texas 75001

(214) 450-2871

16801 Westgrove

July 19, 1994

Mr. Gary Oshel, P.E. Assistant City Engineer City of Farmers Branch P.O. Box 819010 Farmers Branch, Texas 75381-9010

Re: NDCWSC Seven K Construction Company - Progress Payment No. 7

Dear Gary:

The Town of Addison concurs with your assessment and recommends payment of Seven K. Construction Company's seventh payment application in the amount of \$273,881.20.

Sincerely

Holm R. Baumgartner, P.E. Director of Public Works

JRB/gmk

cc: Randy Moravec Finance Director



Scont copy to Rowby 7.25 94

PUBLIC WORKS DEPARTMENT

(214) 450-2871

Post Office Box 144 Addison, Texas 75001

16801 Westgrove

L

10 hour days

July 19, 1994

Mr. Gary Oshel, P.E. Assistant City Engineer City of Farmers Branch P.O. Box 819010 Farmers Branch, Texas 75381-9010

Re: NDCWSC Seven K Construction Company - Progress Payment No. 7

Dear Gary:

The Town of Addison concurs with your assessment and recommends payment of Seven K Construction Company's seventh payment application in the amount of \$273,881.20.

Sincerely.

John R. Baumgartner, P.E. Director of Public Works

JRB/gmk cc: Randy Moravec Finance Director

Approximately 21% complete construction Approximately 29% of clapsed time.

contractor now working the 6 days a week to Jetim 6 days a week to Jetim



Mr. John Baumgartner, P.E. City Engineer Town of Addison P.O. Box 144 Addison, Texas 75001

RE: NDCWSC INVOICE FOR CONTRACTOR

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Attached is a copy of Seven K Construction Company's progress payment application No. 7 through June 25, 1994. I have examined their application for payment and find that it is reasonable and should be paid.

Please review the enclosed documentation for approval of payment on behalf of the Town of Addison and respond in writing if you concur. You may fax your response to Engineering Department, 241-6305.

Should you have any questions, please do not hesitate to contact me.

Sincerely,

Gary M. Oshel, P.E. Assistant City Engineer

GMO/en

Attachment: Seven K Construction Company Payment Application No.7

INTERCEP\7K.ADD

CERTIFICATE OF THE CONTRACTOR OR HIS DULY AUTHORIZED REPRESENTATIVE

To the best of my knowlegdge and belief, I certify that all items, units, quantities, and prices of work and material shown on the face of Sheets 1 thru 4 of this Monthly Estimate are correct that all work has been performed and materials supplied in full accordance with the terms and conditions of the corresponding construction contract documents between the undersigned as Contractor and The North Dallas County Water Supply Corporation, as Owner, dated November 16, 1993, and all authorized changes thereto; that the following is a true and correct statement of the contract account up to and including the last day of the period covered by this estimate and that no part of the Total Amount Due has been received:

(a) Total amount earned (From Worksheet) \$	2,294,095.10
(b) Retainage - 5%\$	114,704.76
(c) Total earned less retainage\$	2,179,390.35
(d) Total previously certified (Line c from previous estimate)\$	1,905,509.15
(e) Amount due this estimate\$	273,881.20
(f) Excess cost of field engineering and inspection 17 HOURS @ \$75/HR \$	(1,275.00)
(g) Total Amount Due\$	272,606.20

I further certify that all claims outstanding as of this date against the undersigned as contractor for labor, materials, and expendable equipment employed in the performance of said contract to this date have been paid in accordance with the requirements of said contract.

CONTRACTOR: SEVEN K CONSTRUCTION COMPANY DATE: TITI E: BY: A Oller

CERTIFICATE OF THE OWNER'S CONSULTING ENGINEERS

I certify that I have verified this Monthly Estimate, and that to the best of my knowledge and belief it is a true and correctt statement of work performed and materials supplied under the contract, and that the Contractor's certified statement of his account and the amount due him is correct and just, and that all work and materials included in this Monthly Estimate have been performed in full accordance with the terms and conditions of the corresponding construction documents and authorized changes thereto.

14LY 8.1994 DATE: ENGINEER? CONSOER TOWNSEND & ASSOCIATES Isuando Provo

OWNER'S RECOMMENDATION FOR PAYMENT Approved and Payment Recommended: DATE: 7/13/ NORTH DALLAS COUNTY WATER SUPPLY CORPORATION: OWNER

THE PROJECT MAR

APPLICATION 7 PERIOD 5-26-94 TO 6-25-94

APPLICATION NO. 7 PERIOD FROM 5/26/94 to 6/25/94

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION CITY OF FARMERS BRANCH, TOWN OF ADDISON SANITARY INTERCEPTOR SEWER, PHASE I

BID			WORK	BID		**************************************		WORK	COMPLETED		
ITEM	BID DESCRIPTION		UNIT	UNIT	TOTAL	PREVIOUS	APPLICATION	CURRENT	APPLICATION	то	DATE
	DESCRIPTION			AMOUNT	COST	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
,								QQQ		AURIN	
1B	60" SAN SWR IN OPEN CUT		\$325.00	3480	\$1,131,000.00	2382.60	\$774,345.00	296.40	\$96,330.00	2679.00	\$870,675.00
2B	60' UNDER I.H. 635 FRNTG RD	ĹĿF	\$425.00	71	\$30,175.00						
зB	60" SAN SWR IN TUNNEL		\$365.00	18810	\$6,865,650.00	715.40	\$261,121.00	480.90	\$175,528.50	1196.30	\$436,649.50
48	42" SAN SWR IN OPEN CUT	l LF	\$410.00	15	\$6,150.00						
5 B	36" SAN SWR IN OPEN CUT	l LF	\$280.00	85	\$23,800.00						
6B	36" JK/BOR UNDER FRM BR CRK		\$655.00	167	\$109,385.00						
. 78	30" SAN SWR IN OPEN CUT		\$150.00	78	\$11,700.00						
8	12" DIP DRP ASY MH #29	EA	\$1,600.00	4	\$1,800.00						
9	36" DIP DRP ASY MH #25	EA	\$15,180.00	1	\$15,180.00						
10	MH #1 INTCPT STRCT	EA	\$50,000.00	1	\$50,000.00						
11	MH #4 STRCT	EA	\$26,000.00	1	\$26,000.00						
12	96" DIA. MH BASE	EA	\$5,750.00	9	\$51,750.00	6.00	\$34,500.00	1.00	\$5,750.00	7.00	\$40,250.00
13	72" DIA. MH BASE	EA	\$6,200.00	5	\$31,000.00						
14	72" DIA. MH SIDEWALL	VF	\$280.00	110	\$30,800.00	• *				,	
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SEVEN K CONSTRUCTION COMPANY 144 GREEN BAY ROAD WINNETKA, ILL 60093

PAYMENT APPLICATION 7

APPLICATION NO. 7 PERIOD FROM 5/26/94 to 6/25/94

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION CITY OF FARMERS BRANCH, TOWN OF ADDISON SANITARY INTERCEPTOR SEWER, PHASE I

WORK BID WORK COMPLETED BID ITEM BID PREVIOUS APPLICATION CURRENT APPLICATION то DATE DESCRIPTION UNIT UNIT UNIT TOTAL AMOUNT COST COST AMOUNT QUANTITY QUANTITY AMOUNT AMOUNT QUANTITY 15 48" DIA. MH SIDEWALL VF \$90.00 100 \$9,000.00 63,50 \$5,715.00 16.00 \$1,440.00 79.50 \$7,155.00 48" DIA. MH FRM & CVR EA 16 \$2,500.00 9 \$22,500.00 17 24" DIA, MH FRM & CVR EA \$580.00 5 \$2,900.00 TNL SHF #1 w/MH 12 STR 18 EA \$175,000.00 0.60 0.60 \$105,000.00 1 \$175,000.00 \$105,000.00 19 TNL SHF #2 w/MH 13 STR EA \$200,000.00 1 \$200,000.00 0.60 \$120,000.00 0.60 \$120,000.00 20 TNL SHF #3 w/MH 14 STR EA \$200.000.00 \$200.000.00 0.60 \$120,000.00 1 \$120,000.00 0.60 21 TNL SHF #4 w/MH 15 STR EA \$115,000.00 1 \$115,000.00 0.50 \$57,500.00 0.50 \$57,500.00 22 TNL SHF #5 w/MH 16 STR EA \$120,000.00 0.60 \$72,000.00 0.60 \$72,000.00 1 \$120.000.00 23 TNL SHF #6 w/MH 17 STR EA \$150,000,00 \$150,000.00 1 24 TNL SHF #7 w/MH 18 STR EA 0.00 1 25 TNL SHF #8 w/MH 19 STR EA \$140,000.00 1 \$140.000.00 26 TNL SHF #9 w/MH 20 STR EA \$125,000.00 1 \$125,000.00 27 TNL SHF #10 w/MH 21 STR EA \$125,000.00 1 \$125,000.00 28 TNL SHF #11 w/MH 22 STR EA 0.00 1 29 TNL SHF #12 w/MH 23 STR EA \$200,000.00 1 \$200,000.00 30 TNL SHF #13 w/MH 24 STR I EA 0.00 1

SEVEN K CONSTRUCTION COMPANY 144 GREEN BAY ROAD WINNETKA, ILL 60093 4

SEVEN K CONSTRUCTION COMPANY 144 GREEN BAY ROAD WINNETKA, ILL 60093

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APPLICATION NO. 7 PERIOD FROM 5/26/94 to 6/25/94

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION CITY OF FARMERS BRANCH, TOWN OF ADDISON SANITARY INTERCEPTOR SEWER, PHASE I

BID			WORK	BID		WORK COMPLETED					
ITEM	BID DESCRIPTION	UNIT			TOTAL	PREVIOUS	APPLICATION	CURRENT	APPLICATION	ТО	DATE
	DESCRIPTION		COST	AMOUNT	COST	QUANTITY		QUANTITY	AMOUNT	QUANTITY	AMOUNT
-								******			
31	TNL SHF #14 w/MH 25 STR	EA	\$120,000.00	1	\$120,000.00						
32	MH & 36" RCP STSWR SH7 RMV & RPL	LS	\$25,000.00	1	\$25,000.00		· ·				
33	TMP 8" SN SWR R+R EX SH9	LS	\$6,500.00	1	\$6,500.00						
34	12" D. WM RMV EXST 12" WM	LF	\$65.00	500	\$32,500.00	67.00	\$4,355.00	49.50	\$3,217.50	116.50	\$7,572.50
35	36" D. CL-3 RCP STM SWR	LF	\$95.00	180	\$17,100.00						
36	SFT END TRT 36" RCP ST SWR	LS	\$16,500.00	1	\$16,500.00						
37	TR SFT SYS TUNNEL ACC SFT	LF	\$10.00	4300	\$43,000.00	2424.85	\$24,248.50	312.00	\$3,120.00	2736.85	\$27,368.50
38	POST-CONST PIPE SYS TEST G	LF	\$2.50	22532	\$56,330.00						
39	PPCM HLTH & SAFETY PLAN FRM.	LS	\$30,000.00	1	\$30,000.00						
40	PPCM HANDLING	LS	\$200,000.00	1	\$200,000.00	~					
41	TEMP RELOC ELEC LN-SH #3	LS	\$30,000.00	1	\$30,000.00	0.86	\$25,709.00			0.86	\$25,709.00
42	MOBILIZATION	LS	\$400,000.00		\$400,000.00	1.00	\$400,000.00			1.00	\$400,000.00
43	12" WTR VLV, COMPL IN PLC	EA	\$1,100.00	4	\$4,400.00	1.00	\$1,100.00	2.00	\$2,200.00	3,00	\$3,300.00
44	8" WTR VLV, COMPL IN PLC	EA	\$710.00	1	\$710.00			1.00	\$710.00	1.00	\$710.00
45	CONC PVT RMVL & REPLACE	SY	\$30.00	. 500	. \$15,000.00						· ,

APPLICATION NO. 7 PERIOD FROM 5/26/94 to 6/25/94

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SEVEN K CONSTRUCTION COMPANY 144 GREEN BAY ROAD WINNETKA, ILL 60093

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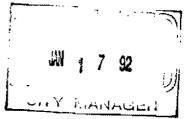
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NORTH DALLAS COUNTY WATER SUPPLY CORPORATION CITY OF FARMERS BRANCH, TOWN OF ADDISON SANITARY INTERCEPTOR SEWER, PHASE I

BID		WORK BID WORK COM				COMPLETED	OMPLETED				
ITEM	BID DESCRIPTION			UNIT	TOTAL	PREVIOUS	APPLICATION	CURRENT	APPLICATION	ТО	DATE
			COST		COST	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
46	ASPHALT PVT RMVL & REPLC	SY	\$20.00	1000	\$20,000.00						
47	CONC CRB & GTR RMV & RPL	LF	\$16.00	500	\$8,000.00						
48	CONC SIDEWALK RMV & RPLC	SF	\$2,50	2000	\$5,000.00						
49	CEMENT STAB. TRNCH BKFL	CY	\$25.00	1000	\$25,000.00						
50	CRSHD STONE TRNCH BKFL	СҮ	\$8.00	1000	\$8,000.00	25.70	\$205.60			25.70	\$205.60
51	4,000 PSI CONC W OR W/O FORMS	СҮ	\$75.00	50	\$3,750.00			I			
52	REBAR	LB	\$0.70	500	\$350.00						
53	18" SAN SWR RMV & RPLNICHLSN RD	LF	\$28.00	170	\$4,760.00						
54	48" DIA. MH BASE-NICHOLSON RD	EA	\$400.00	4	\$1,600.00						
55	48" DIA MH SDWL-NICHOLSON RD	VF	\$50.00	80	\$4,000.00						
56	24" DIA MH FRM+CVR NICHOLSON RD	EA	\$150.00	4	\$600.00						
<u></u>			I = ===================================							 	
-	TOTAL ALTERNATE C	TEMS 1	B THRU 56		\$11,046,890.00		\$2,005,799.10		\$288,296.00		\$2,294,095.10





December 20, 1991

John Bumgartner Acting City Manager Town of Addison P.O. Box 144 Addison, TX 75001

SUBJECT: SANITARY INTERCEPTER TUNNEL

Dear Mr. Bumgartner:

Enclosed is your copy of the agreement between Consoer, Townsend & Associates and the North Dallas County Water Supply Corporation. This agreement is for Engineering Design and Services during construction of the Sanitary Intercepter Tunnel for the City of Farmers Branch and the Town of Addison.

Sincerely,

Jerome V. Murawski, Jr., P.E. City Engineer

JVM/en

Enclosure

C:Addison.SST

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AGREEMENT

THIS AGREEMENT is made by and between **Consoer, Townsend & Associates, Inc.** hereinafter called "UNDERSIGNED", and the NORTH DALLAS COUNTY WATER SUPPLY CORPORATION, hereinafter called "OWNER".

WHEREAS, **OWNER** desires **UNDERSIGNED** to perform Engineering Design and Services During Construction for the Sanitary Intercepter Tunnel serving portions of the City of Farmers Branch and the Town of Addison, as set forth herein and in Scope of Services, marked Exhibit "A" and "B", and attached hereto and incorporated herein; and

WHEREAS, the UNDERSIGNED has agreed to perform such work and services,

NOW, THEREFORE, all parties agree as follows:

SECTION 1 - GENERAL

UNDERSIGNED shall furnish and pay for all labor, tools, materials, equipment, supplies, transportation and management necessary to perform Engineering Design and Services During Construction for the Farmers Branch/Addison Sanitary Interceptor Tunnel as set forth in "Section 2." hereof for the **OWNER** in accordance with the terms, conditions and provisions of the Scope of Services, marked Exhibits "A" and "B" attached hereto and incorporated herein for all purposes. **OWNER** may, at any time, stop any services by the **UNDERSIGNED** upon giving **UNDERSIGNED** written notice. **UNDERSIGNED** shall be bound to **OWNER** by the terms, conditions and responsibilities toward the **OWNER** for **UNDERSIGNED**'s services set forth in this Agreement.

SECTION 2 - SERVICES

a. The Engineering Design Services, when authorized in writing by a Notice to Proceed, shall be performed by the **UNDERSIGNED** in accordance with the **OWNER'S** requirements; as set forth in Exhibit A and summarized as follows:

Prepare construction plans, and specifications including surveying and geotechnical services for a Sanitary Intercepter Tunnel ranging in size from 60 to 72 inches in diameter for a distance of approximately 22,200 lineal feet from the Trinity River Authority intercepter, easterly crossing I-35 generally following an alignment along Valley View Lane and Marsh Lane in the city of Farmers Branch, Texas.

b. The following Services During Construction, when authorized in writing by a Notice to Proceed shall be performed by the undersigned in accordance with the **OWNER'S** requirements; as set forth in Exhibit B and summarized below:

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Provide Construction Management Services for the construction of the Sanitary Interceptor Tunnel referred to in paragraph a. above including Detailed full time observation of construction, including inspection, reporting and recommendations to owner for conformance with plans and specifications, shop drawing review, recommendations for pay estimate approvals, utility and traffic control coordination, daily approval of all Contract pay items, and coordination of all restoration, daily clean up and citizens complaints, and monitor contractors schedules.

- c. UNDERSIGNED shall be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, plans and other services furnished by UNDERSIGNED under this Agreement. UNDERSIGNED shall, without additional compensation, correct or revise any errors or deficiencies in the design, drawings, specifications, plans and other services.
- d. Neither OWNER'S review, approval or acceptance of, nor payment for any of the services required under this Agreement, shall be construed to operate as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement, and UNDERSIGNED shall be and remain liable to OWNER in accordance with applicable law for all damages to OWNER caused by UNDERSIGNED's negligent performance of any of the services furnished under this Agreement.
- e. The rights and remedies of **OWNER** under this Agreement are as provided by law and equity and shall include but shall not be limited to the right to seek specific performance of the terms hereof and to strictly enforce all terms and provisions..

SECTION 3 PAYMENT

- a. OWNER shall pay UNDERSIGNED for all Engineering Design services authorized in writing and properly performed by UNDERSIGNED on the basis herein described, subject to additions or deletions for changes or extras agreed upon in writing.
- Partial payment for Engineering Design Services will be as stipulated in Exhibits "C" and "D" attached hereto and incorporated herein. Invoices shall be submitted monthly.

- c. Upon completion of Design Services and prior to notice to proceed with Services During Construction, the OWNER will negotiate with the UNDERSIGNED the billing rates and fee schedules for Services During Construction. OWNER shall pay undersigned for all Services During Construction authorized in writing and properly performed by UNDERSIGNED on the basis herein described, subject to additions or deletions for changes or extras agreed upon in writing.
- d. Partial payment for Services During Construction, will be stipulated in Exhibits E and F which will be negotiated and upon execution thereof attached to this agreement and incorporated herein. Invoices shall be submitted monthly.
- e. Upon complete performance of this Agreement by **UNDERSIGNED** and final approval and acceptance of **UNDERSIGNED's** service by **OWNER**, **OWNER** will make final payment to **UNDERSIGNED** of the balance due under this Agreement within thirty (30) days of the following month after final payment for Design and Services During Construction services has been billed by **UNDERSIGNED**.
- f. OWNER may deduct from any amounts due or to become due to UNDERSIGNED any sum or sums owing by undersigned to OWNER. In the event of any breach by UNDERSIGNED of any provision or obligation of this Agreement, or in the event of the assertion by other parties of any claim or lien against OWNER, or the OWNER'S premises, arising out of UNDERSIGNED's performance of this Agreement, OWNER shall have the right to retain out of any payments due or to become due to UNDERSIGNED an amount sufficient to completely protect the OWNER from any and all loss, damage or expense therefrom, until the breach, claim or lien has been satisfactorily remedied or adjusted by the UNDERSIGNED.

SECTION 4 - TIME FOR PERFORMANCE

a. UNDERSIGNED shall perform all services as provided for under this Agreement in a proper, efficient and professional manner in accordance with the OWNER's requirements. As time is of the essence in this Agreement, Services for Design Services excluding bidding and recommendation of award shall be completed within 340 calendar days, from the date of written notice to proceed from Owner to UNDERSIGNED, exclusive of OWNER and other governmental review time. Review submittals to OWNER during progress of the Design shall be at 50 percent, 90 percent and 100 percent completion stages at 225, 300 and 340 calendar days respectively from notice to proceed exclusive of OWNER and other governmental review time. b. In the event **UNDERSIGNED's** performance of this Agreement is delayed or interfered with by acts of the **OWNER** or others, **UNDERSIGNED** may request an extension of time for the performance of same as hereinafter provided, but shall not be entitled to any increase in fee or price, or to damages or additional compensation as a consequence of such delays, not to exceed one year.

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c. No allowance of any extension of time, for any cause whatever, shall be claimed or made to the UNDERSIGNED, unless UNDERSIGNED shall have made written request upon OWNER for such extension within forty-eight (48) hours after the cause for such extension occurred, and unless OWNER and UNDERSIGNED have agreed in writing upon the allowance of additional time to be made.

SECTION 5 - DOCUMENTS

- a. All instruments of service (including plans, specifications, drawings, reports, designs, computations, computer programs, estimates, surveys other data or work items, etc.) prepared under this Agreement shall be submitted for approval of the **OWNER**. All instruments of service shall be professionally sealed as may be required by law or by **OWNER**.
- Such instruments of service, together with necessary supporting documents, shall b. be delivered to OWNER, and OWNER shall have unlimited rights, for the benefit of OWNER, in all instruments of service, including the right to use same on any other work of OWNER without additional cost to OWNER. If, in the event OWNER uses such instruments of service on any work of OWNER other than that specified in the Scope of Services, attached as Exhibits "A" and "B", provided **UNDERSIGNED** completes this Agreement, under those circumstances **OWNER** hereby agrees to protect, defend, indemnify and hold harmless the UNDERSIGNED, their officers, agents, servants and employees (hereinafter individually and collectively referred to as "Indemnities"), from and against suits, actions, claims, losses, liability or damage of any character, and from and against costs and expenses, including, in part, attorney fees incidental to the defense of such suits, actions, claims, losses, damages or liability on account of injury, disease, sickness, including death, to any person or damage to property including, in part, the loss of use resulting therefrom, arising from any inaccuracy, such use of such instruments of service with respect to such other work except where **UNDERSIGNED** participates in such other work.
- c. **UNDERSIGNED** agrees to and does hereby grant to **OWNER** a royalty-free license to all such instruments of service which **UNDERSIGNED** may cover by copyright and to all designs as to which **UNDERSIGNED** may assert any rights or establish any claim under the design patent or copyright laws. **UNDERSIGNED**, after completion of the project, agrees to furnish the originals of all such instruments of service to the **OWNER**.

SECTION 6 - TERMINATION

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- a. **OWNER** may suspend or terminate this Agreement for cause or without cause at any time by giving written notice to the **UNDERSIGNED**. In the event suspension or termination is without cause, payment to **UNDERSIGNED**, in accordance with the terms of this Agreement, will be made on the basis of services reasonably determined by **OWNER** to be satisfactorily performed to date of suspension or termination. Such payment will be due upon delivery of all instruments of service to **OWNER**.
- b. Should the OWNER require a modification of this contract with UNDERSIGNED, and in the event OWNER and UNDERSIGNED fail to agree upon a modification to this Agreement, OWNER or UNDERSIGNED shall have the option of terminating this Agreement and the UNDERSIGNED's services hereunder at no additional cost other than the payment to UNDERSIGNED, in accordance with the terms of this Agreement, for the services reasonably determined by OWNER to be properly performed by the UNDERSIGNED prior to such termination date.

SECTION 7 - INSURANCE

- a. **UNDERSIGNED** shall carry and maintain during the term of this contract and any renewal term(s) such liability and other insurance coverages in the minimum amounts as set forth below with insurance companies authorized to do such business in the State of Texas:
 - (1) Worker's Compensation, including occupational diseases, providing for the payment of statutory benefits required by law.
 - (2) Employer's liability insurance with a minimum limit of \$100,000 per occurrence each accident/\$100,000 by disease per - occurrence/\$100,000 by disease aggregate.
 - (3) Comprehensive general liability coverage with the limits as follows: Bodily injury and property damage liability with a minimum combined single limit of \$500,000 per - occurrence and \$1,000,000 general aggregate. Such coverage shall include contractual liability and product liability (including completed operations) in the amount of \$500,000 products/completed operations aggregate.
 - (4) Comprehensive automobile liability insurance with a minimum combined single limit of \$500,000 per occurrence for bodily injury and property damage including owned, non-owned and hired car coverage.
 - (5) Professional liability insurance at minimum limits of \$2,000,000 per claim.
- b. **UNDERSIGNED** agrees to have **OWNER** designated as an additional insured party under insurance policies described in Subsections 3 and 4.

c. UNDERSIGNED shall provide OWNER with certificates of insurance evidencing the above coverages. Provision shall be made in each certificate that any change in coverage (including cancellation) shall not be made without thirty (30) days prior written notice to OWNER.

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SECTION 8 - INDEMNIFICATION FOR INJURY AND PERFORMANCE

UNDERSIGNED further specifically obligates itself to **OWNER** in the following respects, to-wit:

The UNDERSIGNED hereby agrees to protect, defend, indemnify and hold harmless the OWNER, their officers, agents, servants and employees (hereinafter individually and collectively referred to as "Indemnities"), from and against suits, actions, claims, losses, liability or damage of any character, and from and against costs and expenses, including, in part, attorney fees incidental to the defense of such suits, actions, claims, losses, damages or liability on account of injury, disease, sickness, including death, to any person or damage to property arising from any act, error, omission or neglect of the UNDERSIGNED, its officers, employees, servants, agents or subcontractors, or anyone else under the UNDERSIGNED's direction and control, and arising out of, occurring in connection with, resulting from or caused by the performance or failure of performance of any work or services called for by this Agreement, or from conditions created by the performance or non-performance of said work or services. In the event one or more of the Indemnities is determined by a court of law to be jointly or derivatively negligent or liable for such damage or injury, the UNDERSIGNED shall be obligated to indemnify OWNER as provided herein on a proportionate basis in accordance with the final judgement, after all appeals are exhausted, determining such joint or derivative negligence or liability.

The **UNDERSIGNED** is not responsible for the actions of the **OWNER's** contractor to perform the construction of the improvements covered under this Agreement. Acceptance and approval of the final plans by the **OWNER** shall not constitute nor be deemed a release of this responsibility and liability of **UNDERSIGNED**, its employees, associates, agents and Engineers for the accuracy or competency of their designs, working drawings and specifications, or other documents and work; nor shall such approval be deemed to be an assumption of such responsibility by the **OWNER** for any defect in the designs, working drawings and specifications, or other documents prepared by **UNDERSIGNED**, its employees, contractor, agents and Engineers.

SECTION 9 - INDEMNIFICATION FOR UNEMPLOYMENT COMPENSATION

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UNDERSIGNED agrees that it is an independent contractor and not an agent of the OWNER, and that UNDERSIGNED is subject, as an employer, to all applicable Unemployment Compensation Statutes, so as to relieve OWNER of any responsibility or liability from treating UNDERSIGNED's employees as employees of OWNER for the purpose of keeping records, making reports or payments of Unemployment Compensation taxes or contributions. UNDERSIGNED further agrees to indemnify and hold OWNER harmless and reimburse it for any expenses or liability incurred under said Statutes in connection with employees of UNDERSIGNED.

SECTION 10 - INDEMNIFICATION FOR PERFORMANCE

UNDERSIGNED shall defend and indemnify **OWNER** against and hold **OWNER** and the premises harmless from any and all claims, suits or liens based upon or alleged to be based upon the non-payment of labor, tools, materials, equipment, supplies, transportation and management costs incurred by **UNDERSIGNED** in performing this Agreement.

SECTION 11 - ASSIGNMENT

UNDERSIGNED shall not assign or sublet this Agreement, or any part thereof, without the written consent of **OWNER**.

SECTION 12 - APPLICABLE LAWS

UNDERSIGNED shall comply with all Federal, State, County and Municipal laws, ordinances, regulations, safety orders, resolutions and building codes relating or applicable to services to be performed under this Agreement.

This Agreement is entered into subject to the Charter and Ordinances of the CITY OF FARMERS BRANCH and the laws of the State of Texas.

SECTION 13 - DEFAULT OF UNDERSIGNED

IN THE EVENT **UNDERSIGNED** fails to comply or becomes disabled and unable to comply with the provisions of this Agreement as to the quality or character of the service or time of performance, and the failure is not corrected within ten (10) days after written notice by **OWNER** to **UNDERSIGNED**, **OWNER** may, at its sole discretion without prejudice to any other right or remedy:

Terminate this Agreement and be relieved of the payment of any further a. consideration to UNDERSIGNED except for all work determined by OWNER to be satisfactorily completed prior to termination. Payment for work satisfactorily completed shall be for actual costs, including reasonable salaries and travel expenses of UNDERSIGNED to and from meetings called by OWNER, at which the UNDERSIGNED is required to attend, but shall not include any loss of profit of UNDERSIGNED. In the event, of such termination, OWNER may proceed to complete the services in any manner deemed proper by OWNER, either by the use of its own forces or by resubletting to others. In either event, the UNDERSIGNED shall be liable for all costs in excess of the total contract price under this Agreement incurred to complete the services herein provided for and the costs so incurred may be deducted and paid by the OWNER out of such monies as may be due or that may thereafter become due to UNDERSIGNED under and by virtue of this Agreement.

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b. **OWNER** may, without terminating this Agreement or taking over the services, furnish the necessary materials, equipment, supplies and/or help necessary to remedy the situation, at the expense of the **UNDERSIGNED**.

SECTION 14 - ADJUSTMENTS IN SERVICES

No claims for extra services, additional services or changes in the services will be made by **UNDERSIGNED** without a written agreement with **OWNER** prior to the performance of such services.

SECTION 15 - EXECUTION BECOMES EFFECTIVE

This Agreement will be effective upon execution of the contract by and between **UNDERSIGNED** and **OWNER**.

SECTION 16 - AGREEMENT AMENDMENTS

This Agreement together with Exhibit A, Exhibit B, Exhibit C and Exhibit D attached hereto contains the entire understanding of the parties with respect to the subject matter thereof and there are no oral understandings, statements or stipulations bearing upon the meaning or effect of this Agreement which have not been incorporated herein.

Exhibit E and Exhibit F, summary of cost and Billing rates for Services During Construction, will be included as Amendments to the Contract upon negotiation of the cost of these services upon completion of Design Services and when executed and attached hereto. This Agreement may only be modified, amended, supplemented or waived by a written instrument execute by the parties except as may be otherwise provided therein.

SECTION 17 - WRITTEN NOTICES

All notices, demands and communications hereunder shall be in writing and may be serviced or delivered personally upon the party for whom intended, or mailed to the party for whom intended at the address set forth on the signature page of this Agreement. The address of a party may be changed by notice given pursuant to this Section.

SECTION 18 - GENDER AND NUMBER

The use of any gender in this Agreement shall be applicable to all genders, and the use of singular number shall include the plural and conversely.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on this the $\frac{deth}{day}$ day of $\frac{day}{day}$, 19 $\frac{d}{d2}$.

OWNER:

North Dallas County Water Supply Corporation

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By: Richard L. Escalante

President

By:

Jóhn F. Burke Secretary

Witness:

Witness:

Approved as to Form:

UNDERSIGNED:

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Consoer, Townsend & Associates

By: J. Smith, P.E.

Vice President

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SCOPE OF SERVICES FOR ENGINEERING DESIGN

This is an Exhibit to and incorporated into the Agreement (the "Agreement") entered into by and between the **NORTH DALLAS COUNTY WATER SUPPLY CORPORATION**, a Texas Water Supply Corporation, created by the City of Farmers Branch and the town of Addison hereinafter referred to as "**OWNER**", and **CONSOER TOWNSEND & ASSOCIATES**, **INC.**, hereinafter referred to as "Engineer", on $\underline{\bigcirc}_{\mu}$, $\underline{\bigcirc}_{\mu}$, 19<u>7</u>, and sets forth certain terms, conditions and provisions of the Agreement. Final design includes Special Services which are included in Exhibit "A" as Section B-1 thru B-4.

A. <u>FINAL DESIGN</u>

- Upon notice to proceed meeting with owner to review Preliminary Report and establish a schedule for review and monthly progress meetings.
- Establish the route and parameters of the detailed topographic survey and complete surveys using Datum and Bench Marks established in Preliminary Report. The detailed scope of the topographic surveys is set forth in Special Services.
- Conduct field land surveys necessary to prepare plats and legal descriptions of all permanent and temporary easements along the route of the proposed interceptor. The detailed scope of the land surveys is set forth in Special Services.
- 4. Prepare final design geotechnical report supplementing the soil report completed during the preliminary design phase. Also pumping tests and an Environmental water quality assessment will be completed in connection with the Geotechnical Report. The detailed scope of final geotechnical report is set forth in Special Services.
- 5. Plans will be prepared on 24-inch by 36-inch plan and profile, sheets of a scale of 1"
 = 20' in plan view and 1" = 5' in the profile vertical scale. Plans will be prepared using CADD method.

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- Plans will include a cover sheet, a location sheet, traffic control sheets, plan and profile sheets, detail sheets, construction notes and legend sheets and standard detail sheets. All sheets will be designed and sealed by a engineer registered in the state of Texas.
- Prepare contract documents including notice to bidders, proposal, special instructions to bidders, contract conditions, special provisions, and project specifications using the CSI standard specifications, and "OWNER" of Farmers Branch Standard Documents.
- 8. Prepare the documents required to obtain approval of all governmental authorities having jurisdiction over the design and/or operation of the Project and all public and private utilities including license agreements to cross railroad property and pipeline transmission companies affected by the Project. Submit plans or agreements for signatures of representatives of such governmental authorities and public utilities; and "OWNER" officials.
- 9. Design the Project in compliance with the requirements of all applicable local, state and federal laws, codes and regulations, make all revisions to the plans, specifications and other contract documents necessary to provide clarifications or to correct discrepancies. The plans and specifications shall conform to all applicable federal and state regulations.
- 10. Deliver to the "OWNER" five copies of preliminary plans at the 50% completion stage for their review and at the 90% and 100% completion stages of Final Design a detailed cost estimate and five (5) copies of all the reports, recommendations, analyses, specifications, plans and drawings (including working drawings) or as may be modified by Exhibit "A", Scope of Services.

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- 11. Furnish the owner 30 sets of plans and specifications for bidding purposes. Assist the "OWNER" in securing bids for the construction of the Project based upon the construction documents; attend prebid conferences; assist the "OWNER" in evaluating the bid proposals; prepare tabulations of bids received; and furnish the "OWNER" 20 copies of the bid tabulation and a written recommendation for the award of a construction contract for the project.
- 12. Issue all required addenda to revise the plans, specifications and other contract documents in order to (i) provide clarifications; (ii) correct discrepancies; (iii) correct errors and/or omissions; or (iv) reflect changes in design requirements and/or field conditions.

B. SPECIAL SERVICES

1. Surveying

Perform field surveys and provide office support relative to surveying required to obtain horizontal and vertical data along the proposed interceptor sewer line, prepare temporary and permanent easements, and to prepare a working plan layout on CADD. Specific tasks are as follows:

- a. Horizontal Control Establish a baseline as approved by "OWNER" on a location near the centerline of the proposed interceptor sewer. A representative from CT&A will assist Lichliter, Jameson & Associates in identification of the shaft locations (PI's) on the baseline. The baseline will be staked at 100' station intervals. PI's will be referenced with points outside the construction area for re-establishment during construction using Aerial and Field Surveys.
- b. Topography Obtain complete planimetric topography with ties to streets, buildings, trees, utilities, etc. Where sewer is in public R.O.W. the topography will be obtained from right of way to right of way plus an additional 35 feet or the distance necessary to locate the nearest dwelling units which ever is

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smaller. Where sewer is in public or private property the topography will be obtained 75 feet on each side of the centerline of proposed sewer. This topo will be obtained from ROW to ROW or for a width of 150' (75' each side of the baseline) when on new location. Invert elevations of underground utilities will be obtained where accessible. Elevations will be obtained along utilities at locations probed or uncovered by utility companies. All survey data will be digitized on discs for CADD Drafting.

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- c. Profiles and Cross Sections Obtain elevations along the baseline at 100' station intervals. At creek, street, railroad, and highway crossings, obtain additional cross sections as appropriate to represent the surface. At shaft locations, establish a 20' grid for a width of approximately 60' x 80' and obtain elevations on the grid points.
- d. ROW/Easements Research property information (plats, right of way plans, metes & bounds descriptions). Tie property corners, fences, etc. to define the existing street right of way. Prepare a working sketch of existing street right of way and properties which are crossed by the interceptor sewer line. Perform boundary analysis and computations to define the permanent easements as required for the line and temporary easements at shaft locations. Prepare individual plats and metes and bounds descriptions for each easement. Stake the limits of the easements in a semi-permanent manner as required by the "OWNER".

<u>Geotechnical Investigations</u> Perform final geotechnical services to provide soil borings, tests and reports in accordance with the following specific tasks:

a. Test borings will be drilled at approximately 500-feet intervals along the recommended alignment to depths below the proposed sewer invert.

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b. A total of 37 borings to total depths of 25 to 100 feet are proposed as summarized in Table 1. Boring logs and related information from the preliminary geotechnical report will be used to fill in the information base along the alignment.

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- c. Cohesive soils will be sampled with thin-walled tube samplers. Standard penetrations tests will be performed on very sandy or cohesionless soils. The sampling intervals will be at each change in material or a maximum of five feet. The unweathered Eagle Ford Shale will be continuously cored with double-tube core barrels and appropriate bits. All samples will be extruded in the field and packaged to protect them from disturbance and preserve their insitu moisture content.
- d. Field permeability tests by the pressure packer method will be performed at selected locations in the shale bedrock to evaluate in-situ permeability. Smalldiameter (2-inch PVC) groundwater observations wells will be installed at selected locations, primarily in the overburden soils, for long-term groundwater level measurements. Field permeability tests by the bailing and recovery method will be performed in these observation wells to evaluate in-situ permeability.
- e. All borings will be grouted following completion of drilling.
- f. An experienced field geologist will be assigned to each drilling rig to log the borings, perform field tests, assist in access and utility clearances at boring sites, and perform related duties.
- g. Ground surface elevations and locations will be provided for each of the test borings (final and preliminary).
- h. Laboratory tests will be performed on representative samples to establish the pertinent engineering properties of the various soil and rock strata.

For soil samples, the following tests are anticipated:

Natural moisture content

Dry unit weight

Atterberg limits and linear shrinkage

Grain-size analysis

Unconfined compression

Triaxial shear

Direct shear

Absorption swell

For rock core samples, the following tests are anticipated:

Natural moisture content Dry unit weight Unconfined compression Triaxial compression Absorption swell Atterberg limits

These tests will be performed in general accordance with ASTM and IRSM methods. It is also proposed to perform a limited program of special tests to further evaluate the rock durability, hardness, and mineralogy. Addisontional types of tests for both soil and rock samples may be performed depending on conditions encountered.

i. The results of all field and laboratory studies will be compiled into an engineering report with Southwestern Laboratories (SwL) comments and recommendations on various appropriate design parameters.

These will include, as a minimum, the following:

- o Test boring logs and discussion of soil and rock stratigraphy
- o Interpretive subsurface profile along the alignment

- Discussion of geologic and hydrogeologic conditions including groundwater levels
 - Laboratory test results and discussion of engineering properties of soil and rock materials.
 - o Geotechnical engineering comments and recommendations, including
 - dewatering (open cut, shafts, and tunnel)
 - soil bearing and settlement in cut and cover segment
 - pipe bedding and backfill
 - design parameters for excavation support
 - cut and cover excavation slopes
 - estimated ground movements
 - monitoring and instrumentation
- j. Field pumping tests will be performed to provide more in-depth measurements of the in-situ permeability characteristics of the overburden soils, at three locations. At each location, this will require installation of a 4-inch diameter PVC pumping well and two nearby 2-inch diameter PVC observation wells or piezometers. The larger well will be pumped for a period of 12-hours with observations of drawdown levels in the pumping well, and the drawdown wells before, during, and following the pumping period. The pumping flow rate will also be monitored. The test results would then be analyzed to obtain coefficients of permeability, transmissivity, and related geohydrologic information at each of the test sites.
- Preliminary Environmental and Water Quality Assessment will be prepared to assess the potential for environmental liabilities associated with past or current practices along the alignment, and include the following tasks:

(1) Determine Existing Conditions Along Alignment

A site visit will be conducted to observe surficial evidence of environmental impairment. The SwL staff will inspect the alignment and adjacent properties for the presence of the underground storage tanks,

chemical stains, stressed vegetation, land scars, or obvious evidence of improper use or disposal of toxic or hazardous materials. Right of entry will be provided by the "**OWNER**".

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(2) <u>Review History</u>

The history of the alignment will be reviewed by utilizing data such as aerial photographs, inquiries of persons familiar with adjacent sites, and possibly, property chain-of-title. The surface conditions and surrounding land-use will be examined for previous activities that may have affected the environmental conditions.

(3) <u>Regulatory Agency Inquiry</u>

Inquiries will be made to local, state, and federal regulatory agencies to determine whether or not noncompliance citations or violations have been issued in the past. Examples of regulatory agencies include, the Texas Water Commission (TWC), city or county health departments, air quality and water quality departments, and the Environmental Protection Agency (EPA).

(4) Groundwater Sampling and Tests

Based on these findings, sites will be selected for installation of 4-inch diameter groundwater monitor wells at three locations judged to have the highest potential for the presence of hazardous substances. These wells will be installed using appropriate decontamination procedures for the drilling equipment and well materials. Groundwater samples will then be obtained using appropriate sampling methods for water quality analysis. Parameters anticipated for such analyses include general groundwater characterization (pH, total dissolved solids, specific conductance, etc.), total organic carbon, total petroleum hydrocarbons, total volatile hydrocarbons, purgeable aromatics, general pesticides and herbicides, and other substances as may be indicated by the findings of the previous tests.

(5) Data Evaluation and Final Report

All pertinent data and observations will be organized and presented in the final report. The report will include an opinion by SwL with regard to the potential for environmental concerns and liabilities, including the presence of hazardous and toxic substances. Should the results of this study reveal evidence for the potential for environmental concerns, a recommendation will be made for additional investigation activities, which commonly include additional soil borings, monitor wells, soil/waste sampling and laboratory testing, not included within the scope of this preliminary study.

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3. Analytical Laboratory Testing

A minimum of three analytical laboratory tests will be performed on the sanitary sewage which will be conveyed in the new sanitary interceptor tunnel. The test will include the following analysis:

PH, sulfates, sulfides, cyanide, volatile organics, semi-volatile organics, chlorides and methane.

These tests will be conducted for use in analyzing corrosion protection necessary for the tunnel and appurtenances.

4. Flow Monitoring

A maximum of two portable velocity flow monitors will be installed for a maximum six week period to determine dry and wet weather flows tributary to the terminus of the new sanitary interceptor tunnel. 1

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SCOPE OF SERVICES FOR SERVICES DURING CONSTRUCTION

This is an Exhibit to and incorporated into the Agreement (the "Agreement") entered into by and between the **NORTH DALLAS COUNTY WATER SUPPLY CORPORATION**, a Texas Water Supply Corporation, created by the Cities of Farmers Branch and Addison hereinafter referred to as "**OWNER**", and **CONSOER TOWNSEND & ASSOCIATES**, INC., hereinafter referred to as "Engineer", on $\int_{100}^{100} (o_1, 19) d_{12}$ and sets forth certain terms, conditions and provisions of the Agreement.

The Engineer shall provide professional services during construction to assist in obtaining a complete Project in accordance with the purpose and intent of the contract documents. Services During Construction shall include, but not be limited to, the following:

- Participate in pre-construction conferences and assist with the execution of a contract between the "OWNER" and the successful bidder;
- 2. Provide a full time on site resident engineer and assistant field engineers as required to administer construction contracts and prepare monthly progress reports, minutes of meetings, daily diaries, review and monitor contractor's CPM schedule adherence and project progress, and check and recommend approval of contractors pay estimates, and provide daily on site construction inspection for conformance with plans and specifications, including reporting and recommendations to Owner. However, neither Consoer, Townsend & Associates or Jay Dee Contractors are responsible for the means or methods employed by the Contractor in the process of his work, or have the authority to stop the Contractor's work.
- Jay Dee Contractors Inc. will assist Consoer Townsend & Associates during construction Phase Services and will provide at least one full time representative as part of the onsite personnel referred to in Paragraph 2 above.

Both Consoer Townsend and Jay Dee Contractors will assign a project manager to interface between the contractor, the "OWNER" and resident engineers and attend monthly progress meetings and any other meetings as required.

4. Review, prepare, make recommendations, execute, and administer contract changes including field change orders and engineering design changes.

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- 5. Review and recommend approval of contractor's submittals and schedules including shop drawings and coordinate during construction to minimize the impact of traffic disruption or dust conditions to the local populace.
- 6. Arrange for, and coordinate as required, all independent testing or laboratory services necessary for the project and review and administer, as needed, in accordance with the test results.
- Coordinate with contractor, utility companies and Owners Public Works Department to minimize disruption of utilities caused by or required by construction operations.
- Conduct a final inspection and prepare final punch list to be approved by Owner prior to approval of final pay estimate. Conduct a final inspection with Owner after completion of punch list.
- 9. Provide two sets of reproducible record prints of drawings, which shall become the property of the "OWNER" corrected to show significant changes made in the work during the construction of the Project. Such corrections shall be based upon " as-built" prints, drawings, field sketches and other data furnished to the Engineer by the "OWNER" and the contractor, upon change orders issued during construction, and upon on-site observations of the Engineer.

10. No less than 30 days and no more than 45 days before the expiration of the guarantee period established by the construction contract documents, the Engineer, in company with the "OWNER", shall inspect the construction site. Within fourteen days after such inspection the Engineer shall furnish the "OWNER" with a written report enumerating items which require repair or replacement as provided under the guarantee and warranty provisions of the contract documents;

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EXHIBIT "C" PAYMENT AND BILLING RATES

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This is an Exhibit to and incorporated into the Agreement (the "Agreement") entered into by and between the **NORTH DALLAS COUNTY WATER SUPPLY CORPORATION**, a Texas Water Supply Corporation, created by the Cities of Farmers Branch and Addison hereinafter referred to as "**OWNER**", and **CONSOER**, **TOWNSEND & ASSOCIATES**, **INC**., hereinafter referred to as "Engineer", on \underline{Out} , $19\underline{92}$

I. PAYMENT

Payment will be based on base salary of staff members involved in productive work on the project times a multiplier of 3.10 with maximum fees set forth in Exhibit "D".

II. BILLING RATES

Average billing rates for Consoer, Townsend & Associates, Inc. and the subcontractor's Lichliter Jameson for surveying services; Southwestern Laboratories for geotechnical work and Jay Dee Contractors for design services are as follows:

A. CONSOER TOWNSEND

Classification	Average Billing Rate <u>Per Hour</u>
Senior Advisor	\$ 110.00
Project Manager	110.00
Project Engineer	84.00
Sr. Civil Engineer	78.00
Civil Engineer	65.00
Structural Engineer	81.00
CAD Technician	56.00
Technician	50.00

(Exhibit "C" Continued)

B. JAY DEE CONTRACTORS

Classification	Average Billing Rate <u>Per Hour</u>
Sr. Design Engineer	\$ 107.00
Sr. Estimator	60.00
Staff Estimator	45.00

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C. SOUTHWESTERN LABORATORIES (See Following Pages)

D. LICHLITER/JAMESON & ASSOCIATES, INC. (See Following Pages)

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Lichliter Jameson & Associates, Inc.

AVERAGE RATE SCHEDULE

Classification	Base Salary Per Hour	Average Billing Rate <u>Per Hour</u>
Project Manager	\$ 26.50	\$79.50
Engineer	18.30	54.90
Registered Public Surveyor	19.00	57.00
Survey Technician	15.00	45.00
Survey Crew (3 man)		70.00
CADD Operator	15.00	45.00
Clerical	11.50	34.50
CADD Equipment		25.00

) EXHIBIT "C")	
SOUTHWESTERN LABORATORIES	
SCHEDULE OF SERVICES AND MINIMUM FEES	
NORTH TEXAS GEOTECHNICAL ENGINEERING DIVISION JANUARY 1991	
HOURLY FEES FOR PERSONNEL	
ENGINEERS	
Staff Engineer (Grade I and II) Project Engineer (Grade III and IV) Senior Engineer (Grade V and VI) Principal Engineer (Grade VII and VIII) Expert Witness (4 hour minimum)	\$ 60.00 \$ 75.00 \$ 95.00 \$105.00 \$160.00
GEOLOGIST	
Staff Geologist Project Geologist Senior Geologist	\$ 45.00 \$ 55.00 \$ 85.00
DRAFTSMAN	\$ 35.00
TECHNICIANS	
Technician in Training Engineering Technician	\$ 25.00 \$ 35.00
WORD PROCESSING	\$ 30.00
Direct Costs at cost plus 15 percent	
	TORIES

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SCHEDULE OF SERVICES AND MINIMUM FEES

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NORTH TEXAS GEOTECHNICAL ENGINEERING DIVISION FIELD STUDIES JANUARY 1991

MOBILIZATION AND DEMOBILIZATION

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1.	Truck mounted drill rig, water truck and crew(\$175.00 Minimum)	\$ 2.65/mi.
2.	Pickup and 3-man crew (travel to/from site and office when equipment left at location on out-of-town projects)	\$ 1.25/mi.
3.	Subsistence per crew member	\$ 60.00/day
4.	Minimum drilling fee	\$500.00
<u>FIE</u>	ID INVESTIGATION	
5.	Soil samples (Shelby Tube samples in cohesive soils, 2-inch split spoon samples in cohesive soils)	
	a. Intermittent 2 or 3-inch diameter	
	0-50 (sampled at 5'intervals	\$ 9.15/ft
	50-100 (sampled at 5'intervals)	\$ 11.60/ft.
	100-200 (sampled at 10'intervals)	\$ 16.80/ft.
	200-300 (sampled at 20'intervals)	\$ 21.00/ft.
	b. Continuous 2 or 3-inch diameter	
	0-50 feet	\$ 16.80/ft.
	50-100 feet	\$ 21.00/ft.
	c. Larger diametersQuote	d on request
6.	Wash or auger borings without samples	\$ 5.00/ft.
7.	Undisturbed or split-spoon samples in wash or auger borings	\$ 31.50/ea.
8.	Casing of boring through overburden for soil sampling or rock coring—	\$ 5.00/ft.
Pag	e 1 of 2	

- SOUTHWESTERN LABORATORIES -

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FIELD STUDIES
9. Rock coring (NX-size), continuous coring, plus bit costs
a. Carbide\$14.95
b. Diamond\$21.00
10. Equipment rental plus bit costs
a. Two men, Mobil B-53\$136.50/hr.
b. Three men, Failing 1250 (air), GD1000 (air) Mobil B-57
c. Three men, CME 75 air combination \$160.00/hr.
11. Stand-by of crew and equipment, including move time in excess of 30 minute per boring
a. Three men, drilling equipment \$130.00/hr.
12. Rental equipment necessary to gain access Cost +15%
13. Instrumentation (slope indicators, piezometers, etc.)
a. Installation Rig rental rate
b. Materials (screen, pipe, instruments) Cost +15%
c. Geologist or Engineer at rate listed in Schedule of Hourly fees for personnel
d. Standard 2-inch standpipe observation wells \$ 6.00/ft.
14. Drilling tools, casing and bits lost in hole Cost +15%
15. Pressure testing Rig rental rate
16. Resistivity Surveys-Quoted on request
17. Borehole Grouting
a. Equipment Rig rental rate
b. Materials Cost +15%
18. Rock Core Wooden Boxes Cost +15%
Page 2 of 2

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- SOUTHWESTERN LABORATORIES -

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SCHEDULE OF SERVICES AND MINIMUM FEES

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NORTH TEXAS GEOTECHNICAL ENGINEERING DIVISION LABORATORY TESTING JANUARY 1991

IDENTIFICATION AND CLASSIFICATION TESTS	<u>UN</u>	TT PRICES
 Liquid and Plastic Limits Hydrometer Analyses, including Sieve Sieve Analyses through No. 200 Sieve Percent Passing No. 200 Sieve 	\$ \$ \$ \$	39.50 75.00 26.00 15.50
PHYSICAL TESTS		
 Moisture Content Density and Moisture Content Maximum and Minimum Density Specific Gravity Permeability Fixed Wall Permeability Flex Wall Organic Content 	\$ \$ \$ \$ \$ \$ \$ \$	3.00 15.50 185.00 46.75 75.00 175.00 10.00
STRENGTH AND COMPRESSIBILITY TESTS		
11. Unconfined compression-maximum stress Soil (with Moisture-density) Rock	\$ \$	27.50 27.50
12. Triaxial Shear 2 inch and 3 inch diameter specimens Unconsolidated - undrained Per specimen Multiple Stage	\$ \$	40.00 100.00
Consolidated-Undrained with Pore Pressure Per specimen Multiple Stage (3-points)	\$ \$	140.00 340.00
Stress-Strain curves for above tests Per specimen	\$	30.00
13. Direct Shear - Per specimen Unconsolidated - Undrained Consolidated - Undrained Consolidated - Drained Residual strength determination in conjunction with above tests - Add	\$ \$ \$	45.00 85.00 135.00 115.00

Page 1 of 2

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LABORATORY TESTING

STRENGTH AND COMPRESSIBILITY - Continued	UN	IT PRICE
14. Consolidation	\$	180.00
15. Absorption Swell Test Controlled Pressure Swell	\$ \$	60.00 80.00
16. Preparation of remolded or compacted specimen for items above	\$	20.00
17. Optimum Moisture - Density Relation Standard Modified	\$ \$	135.00 150.00
18. California Bearing Ratio (3 specimens)	\$	415.00
19. Lime Stabilization		
Lime/Atterberg Series Lime/pH Series	\$ \$	160.00 80.00
Optimum Moisture - Density/Lime Stabilized Soil 4-inch Mold 6-inch Mold	\$ \$	150.00 150.00
Optimum Moisture Density with strength tests - three lime contents	\$	450.00
20. Dispersion		
Pinhole Crumb Double Hydrometer	\$ \$ \$	115.00 21.00 115.00
21. Laboratory Resistivity	\$	35.00
Page 2 of 2		

- SOUTHWESTERN LABORATORIES -

ANALYTICAL TESTING SANITARY INTERCEPTOR SEWER FARMERS BRANCH/ADDISON, TEXAS

рН	5.00 ea.
Sulfates	20.00 ea.
Sulfides	25.00 ea.
Cyanide	25.00 ea.
Volatile Organics	225.00 ea.
Semi-Volatile Organics	575.00 ea.
Chlorides	20.00 ea.
Methane	<u> 50.00 ea</u> .

Total

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\$945.00/sample

Above series on five or more samples \$875.00/sample.

Sampling Charge \$45.00/hr. For three sampling times estimate maximum of 8 hours.

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April 17, 1991

EXHIBIT "D"

1

SUMMARY OF COSTS

This is an exhibit to and incorporated into the Agreement (the "Agreement") entered into by and between the **NORTH DALLAS COUNTY WATER SUPPLY CORPORATION**, a Texas Water Supply Corporation, created by the Cities of Farmers Branch and Addison hereinafter referred to as "**OWNER**" and **CONSOER**, **TOWNSEND & ASSOCIATES**, **INC.**, hereinafter referred to as "Engineer", on _________, 1991_____

MAXIMUM FINAL DESIGN BASIC SERVICES COST

		MAXIMUM SPECIAL SERVICES COST SUMMARY		
		TOTAL MAXIMUM FINAL DESIGN BASIC SERVICES	<u>\$631,324</u>	
		Total other direct costs	<u>\$23,340</u>	
	3.	CAD use costs @ \$10.00 per hour @ 1,384 hours =	\$13, 8 40	
	2.	Travel cost @ commercial invoice cost @ 26 round trips	\$4,000	
		 a. 5 sets for 50, 90 & 100 percent review b. 30 sets for bidding purposes c. 20 sets for regulatory & utility agencies d. Total costs 	\$5,500	
	1.	Printing plans specifications @ commercial invoice costs		
В.	OTHE	OTHER DIRECT COSTS:		
Α.	BASIC	C FINAL DESIGN SERVICES \$607,		

A. Surveying \$92,896

В.	Easement legal descriptions and plat preparation	\$49,408
C.	Geotechnical investigations	\$183,500
D.	Sanitary sewage analytical testing	\$3,195
E.	Flow metering	<u>\$4,500</u>
	TOTAL MAXIMUM SPECIAL SERVICES	<u>\$333,499</u>
	TOTAL MAXIMUM COST FINAL DESIGN AND SPECIAL SERVICES COST	<u>\$964,823</u>

EXHIBIT "E" PAYMENT AND BILLING RATES FOR SERVICES DURING CONSTRUCTION

This is an exhibit to and incorporated into the Agreement (the "Agreement") entered into by and between the **NORTH DALLAS COUNTY WATER SUPPLY CORPORATION**, a Texas Water Supply Corporation, created by the Cities of Farmers Branch and Addison hereinafter referred to as "**OWNER**" and **CONSOER**, **TOWNSEND & ASSOCIATES**, **INC.**, hereinafter referred to as "Engineer", on _________, 1991.

I. PAYMENT

Payment will be based on actual salary of staff members involved in productive work on the project based on a salary multiplier to be negotiated with the owner upon the completion of Final Design.

II. BILLING RATES

Billing rates will be based on the personnel assigned to the project upon the completion of Final Design and will also be based upon the salary multiplier negotiated in Paragraph I - Payment - above.

Exhibit "E" is not included in this Agreement and if for information only.

EXHIBIT "F" SUMMARY OF MAXIMUM COST FOR SERVICES DURING CONSTRUCTION

This is an exhibit to and incorporated into the Agreement (the "Agreement") entered into by and between the **NORTH DALLAS COUNTY WATER SUPPLY CORPORATION**, a Texas Water Supply Corporation, created by the Cities of Farmers Branch and Addisonson hereinafter referred to as "**OWNER**" and **CONSOER**, **TOWNSEND & ASSOCIATES**, **INC.**, hereinafter referred to as "Engineer", on $\int_{\mathcal{TM}} \varphi$, 1991.

The Maximum Costs for Services During Construction will be negotiated with the owner upon completion of Final Design.

Exhibit "F" is not included in this Agreement and if for information only.

ATTACHMENT 'B' NORTH DALLAS COUNTY WATER SUPPLY CORPORATION EXTRA WORK COST SUMMARY

Α.	SouthWestern Bell Design A	djustment			
	1. Consoer Townsend & Ass	oclates			
		Base	1	Base Salary	
	Position	<u>Salary</u>	Hours	Multiplier	Cost
	Project Manager	\$39.01	20	3.1	\$2,418.62
	CADD Technician	\$19.58	40	3.1	\$2,427.92
	Total				\$4,846.54
В.	R.O.W. Easements				
	1. Consoer Townsend & Ass	ociates			
		<u>Base</u>	<u>[</u>	<u>Base Salary</u>	
	Position	<u>Salary</u>	<u>Hours</u>	<u>Multiplier</u>	<u>Cost</u>
	CADD Technician	\$18.74	43	3.1	\$2,498.04
	Technician	\$13.71	11	3.1	\$467.51
	CADD Technician	\$19.58	23	3.1	\$1,396.05
	Technician	\$14.33	6	3.1	\$266.54
	Total				\$4,628.14
C.	City of Dallas Requested Eas	ement Adju	stments		
	1. Consoer Townsend & Ass	oclates			
	,	<u>Base</u>	<u> </u>	<u> Base Salary</u> -	
	<u>Position</u>	<u>Salary</u>	Hours	<u>Multiplier</u>	Cost
	CADD Techniclan	\$19.58	4	3.1	\$242.79
	2. Lichliter/Jameson & Asso	ciates			
	Invoice No. 110185				\$661.75
	Total				\$904.54
D.	A-Z Report				
	1. Consoer Townsend & Ass	ociates			
		<u>Base</u>	_	<u> Base Salary</u>	
	Position	<u>Salary</u>	Hours	<u>Multiplier</u>	<u>Cost</u>
	Project Director	\$39.01	6	3.1	\$725.59
	Project Manager	\$39.01	28	3.1	\$3,386.07
	Project Engineer	\$29.63	23	3.1	\$2,112.62
	Technician	\$13.99	8	3.1	\$346.95
	Technician	\$14.33	1	3.1	\$44.42
	SubTotal				\$6,615.65
	2. Jay Dee Contractors, Inc.				
	Invoice No	-			\$0.00
	Total				\$6,615.65
E.	Project Advertisement				
	McGraw-Hill	Involce Nos	<u>i.</u>		Cost
		K1794047			\$1,066.00
		K1804051			\$1,066.00
		144044000			A 4 A A A A A A

K1804051 K1944062

Total

F.

Total Extra Work

\$1,066.00 \$3,198.00

\$20,192.88

nvoice No.:			54790	54888	54977	55115	55223				19 ° 1			
	Contract	Subtotal		ſ								Contract	Add'l Expris	New
	Amount	01/92-12/92	01/93	02/93	03/93	04/93	05/93	06/93	07/93	08/93	Total Billed	Balance	Requested	Balance
			474 000 00			A 40 000 10							A. 6 000 10	
BASIC SVCS	\$607,984.00	\$405,223.96	\$71,602.96	\$27,685.76	\$29,740.35	\$19,952.46	\$30,050.24	\$25,962.93	\$17,897.42	\$15,198.89	\$643,314.97	(\$35,330.97)		(\$18,997.8
CT&A Design:	\$555,996.00	\$388,372.21	\$51,526.83	\$27,685.76	\$29,740.35	\$19 ,9 52.46	\$20,030.83	\$25,962.93	\$17,897.42	\$7 ,593.39	\$588,762.18	(\$32,766.18)	\$16,333.12	(\$16,433.04
L/J Design:	\$15,312.00	\$14,925.75	\$346.00							\$2,605.50	\$17,877.25	(\$2,565.25)		(\$2,565.2
Jay Dee Cristr:	\$36,676.00	\$1,926.00	\$19,730.13				\$10,019.41			\$5,000.00	\$36,675.54	\$0.46		\$0,46
DIRECT COSTS	\$23,340.00	\$20,644.86	\$704.24	\$0.00	\$376.90	\$255.33	\$678.88	\$3,032.33	\$1,187.76	\$421.52	\$27,301.82	(\$3,961.82)	\$3,198.00	(\$763.8
printing:	\$5,500.00	\$1,679.44	\$265.03		\$376.90	\$255.33	\$153.53	\$251,38			\$2,981.61	\$2,518.39		\$2,518.3
travel:	\$4,000.00	\$5,125.42	\$439.21				\$525.35	\$648.95	\$121.76	\$421.52	\$7,282.21	(\$3,282.21)		(\$3,282.21
CADD:	\$13,840.00	\$13,840.00			ļ					:	\$13,840.00	\$0.00		\$0,0
Advertisement:	\$0.00	\$0.00						\$2,132.00	\$1,066.00		\$3,198.00	(\$3,198.00)	\$3,198.00	\$0.00
TOTAL BASIC:	\$631,324.00	\$425,868.82	\$72,307.20	\$27,685.76	\$30,117.25	\$20,207.79	\$30,729.12	\$28,995.26	\$19,085.18	\$15,620.41	\$670,616.79	(\$39,292.79)	\$19,531.12	(\$19,761.67
SPECIAL SVCS														
Surveying:	\$92,896.00	\$92,677.50								\$10,177.00	\$102,854.50	(\$9,958.50)		(\$9,958.5
Esmts, Legal:	\$49,408.00	\$49,408.00						\$661.75		\$1,890.75	\$51,960.50	(\$2,552.50)		(\$1,890.7
TOTAL SRVY:	\$142,304.00	\$142,085.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$661.75	\$0.00	\$12,067.75	\$154,815.00	(\$12,511.00)	\$661.75	(\$11,849.2
Geotechnical:	\$183,500.00	\$142,403.16	40.00			\$1,325.00	00.00	\$770.00	φ 0.0 0	Ψ12,003.10	\$144,498.16	\$39,001.84	0001.10	\$39,001.84
Anlytci Tests:	\$3,195.00	\$0.00				91,020.00		<i>\$710.00</i>			\$0.00	\$3,195.00		\$3,195.0
Flow Metering:	\$4,500.00	\$4,500.00									\$4,500.00	\$0,195.00		\$0,00
I IAN METERNIA	Ψ-,300.00	φ 4 ,300.00										40.00		
TOTAL SPECIAL:	\$333,499.00	\$288,988.66	\$0.00	\$0.00	\$0.00	\$1,325.00	\$0.00	\$1,431.75	\$0.00	\$12,067.75	\$303,813.16	\$29,685.84	\$661.75	\$30,347.5
									······································					
PROJECT TOTAL	\$964,823.00	\$714,857.48	\$72,307.20	\$27,685.76	\$30,117.25	\$21,532.79	\$30,729,12	\$30,427.01	\$19,085.18	\$27,688.16	\$974,429.95	(\$9,606.95)	\$20,192.87	\$10,585.9

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City of Farmers Branch/Town of Addison Joint Venture Sanitary Interceptor Sewer - Phase I

I. Consoer Townsend & Associates

II.

A. Estimated Staffing Costs

	Position	<u>Manhours</u>	Rate	<u>Cost</u>
	Principal Project Manager Resident Engineer Project Engineer Structural Engineer CADD Technician Technician-Office	200 940 4002 500 100 120 400	123.75 123.00 75.00 94.00 115.00 62.00 45.00 Subtotal	\$24,750.00 \$116,325.00 \$300,150.00 \$47,000.00 \$11,500.00 \$7,440.00 <u>\$18,000.00</u> \$525,165.00
В.	Direct Costs Travel - Plane and car rental Printing @ \$125 x 24 =	(158 + 55) >	< 30 = Subtotal	\$6,390.00 <u>\$3,000.00</u> \$9,390.00
			Subtotal CT&A	\$534,555.00
Jay	/ Dee Contractors			
A.	Estimated Staffing Costs			
	Position	Manhours	Rate	Cost
	Manager Assistant Resident Engineer Field Inspector Senior Safety Engineer	768 4002 3480 192	115.00 75.00 35.00 72.00 Subtotal	\$88,320.00 \$300,150.00 \$121,800.00 <u>\$13,824.00</u> \$524,094.00
В.	Direct Costs Travel Expenses (160 + 400	•	ototal Jay Dee	\$13,440.00 \$537,534.00

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III. Project Special Costs

A.	Safety Equipment Combination Gas Tester, 2 @ \$120/ Escape SCBA Units, 4 @ \$50/mont Anemometer, 1 @ \$50/month x 18 Subtr	n x 18 =	\$4,800.00 \$3,600.00 <u>\$900.00</u> \$9,300.00
В.	Photographs 5 photos x 21 days x 20 months @		\$1,260.00
C.	Tunnel Survey Consultant 3 surveys @ 3,000/Survey =		\$9,000.00
D.	 Surveying for Line and Grade and S Line and grade and setting eleval establishing starting elevations Provide elevations on all markers for 12 months Provide elevations at end of warr one year after construction 	tion markers and once a month	\$25,650.00 \$25,700.00 <u>\$5,250.00</u> \$56,600.00
E. F.	2 Vehicles @ \$35/day @21 days x 2 1 Vehicle @ \$35/day @21 days x 20		\$33,810.00 <u>\$14,700.00</u> \$48,510.00
* -	Inspection and Report	Subtotal Warranty	\$11,990.00
	Sut	ototal Special Costs	\$136,660.00
		Total Project Cost	<u>\$1,208,749.00</u>

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION

ANNUAL FINANCIAL REPORT

YEAR ENDED SEPTEMBER 30, 1996

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION

ANNUAL FINANCIAL REPORT YEAR ENDED SEPTEMBER 30, 1996

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CERTIFIED PUBLIC ACCOUNTANTS AND CONSULTANTS

12221 Merit Drive Snite 1700 Dallas, Texas 75251 972,490,1970 F 972,702,8321 **INDEPENDENT AUDITOR'S REPORT**

Board of Directors North Dallas County Water Supply Corporation Farmers Branch, Texas

We have audited the accompanying financial statements of the North Dallas County Water Supply Corporation, as of and for the year ended September 30, 1996, as listed in the table of contents. These financial statements are the responsibility of the Corporation's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the North Dallas County Water Supply Corporation at September 30, 1996, and the results of its operations for the year then ended in conformity with generally accepted accounting principles.

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WEAVER AND TIDWELL, L.L.P.

Dallas, Texas November 7, 1996

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FORT WORTH OFFICE

307 West Seventh Street Snite 1500 Fort Worth, Texas 76102

WORLOWICE AFFILIATIONS THROUGH SUMMIT INTERNATIONAL ASSOCIATES, INC.

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION BALANCE SHEET - ALL FUND TYPES AND ACCOUNT GROUPS SEPTEMBER 30, 1996

		Governmental Acc Fund Types Gru Ger		•	Totais Memorandum Only		
ASSETS	General	Capital Projects	Fixed Assets	1996	1995		
Cash	\$	\$ 83,156	\$	\$ 83,156	\$ 125,971		
Accounts receivable: Town of Addison	411	147,783		148,194	636,579		
City of Farmers Branch	337	150,407		150,744	484,613		
Construction in progress		····	15,164,957	15,164,957	12,624,059		
Total Assets	\$	\$_381,346	\$ <u>15,164,957</u>	\$ <u>15,547,051</u>	\$ <u>13,871,222</u>		
LIABILITIES							
Accounts payable	\$ 748	\$ 108,798	\$	\$ 109,546	\$ 652,886		
Retainage payable		191,930		191,930	521,002		
Total liabilities	748	300,728		301,476	1,173,888		
EQUITY AND OTHER CREDITS							
Investment in general fixed assets			15,164,957	15,164,957	12,624,059		
Fund balances		80,618		80,618	73,275		
Total equity and other credits		80,618	15,164,957	15,245,575	12,697,334		
Total Liabilities, Equity and Other Credits	\$748	\$ <u>381,346</u>	\$ <u>15,164,957</u>	\$ <u>15,547,051</u>	\$ <u>13,871,222</u>		

The Notes to Financial Statements are an integral part of this statement.

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NORTH DALLAS COUNTY WATER SUPPLY CORPORATION STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES - ALL GOVERNMENTAL FUND TYPES YEAR ENDED SEPTEMBER 30, 1996

	7 4 -	ernmental Ind Types		otals Indum Only	
	General	Capital Projects	1996	1995	
Revenues:			····		
Charges to participant cities:					
Town of Addison	\$ 6,209	\$ 1,023,596	\$ 1,029,805	\$ 4,246,101	
City of Farmers Branch	5,080	1,517,303	1,522,383	3,252,716	
Interest income and other		7,343	7,343	13,954	
Total revenues	11,289	2,548,242	2,559,531	7,512,771	
Expenditures:					
Current:					
Project administration	3,077		3,077	2,353	
Legal fees	1,078		1,078	25,610	
Miscellaneous	7,134		7,134	3,835	
Capital outlay		2,540,899	2,540,899	7,407,698	
Total expenditures	11,289	2,540,899	2,552,188	7,439,496	
Excess (deficiency) of revenues					
over expenditures		7,343	7,343	73,275	
Other financing sources (uses):					
Operating transfers in		8,062	8,062		
Operating transfers out	(8,062)	·····	(8,062)		
Total other financing sources (uses)	(8,062)	8,062			
Excess (deficiency) of revenues and other					
financing sources over expenditures and					
other financing uses	(8,062)	15,405	7,343	73,275	
Fund balances, beginning of year	8,062	65,213	73,275		
Fund balances, end of year	\$	\$80,618_	\$80,618	\$	

The Notes to Financial Statements are an integral part of this statement.

NORTH DALLAS COUNTY WATER SUPPLY CORPORATION STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES - BUDGET (GAAP BASIS) AND ACTUAL ALL GOVERNMENTAL FUND TYPES YEAR ENDED SEPTEMBER 30, 1996

		General F	und	Capital Projects Fund			
	Budget	Actual	Variance favorable (unfavorable)	Budget	Actual	Variance favorable (unfavorable)	
Revenues:							
Charges to participant cities: Town of Addison	\$ 9,075	\$ 6,209	\$ (2,866)	\$ 2,288,000	\$ 1,023,596	\$ (1,264,404)	
City of Farmers Branch	7,425	5,080	(2,345)	÷ 2,266,000 2,029,000	\$ 1,023,598 1,517,303	511,697)	
Interest and miscellaneous	7,423	0,000	(2,340)	8,000	7,343	(657)	
Interest and miscellaneous	3			6,000		(007)	
Total revenues	16,500	11,289	(5,211)	4,325,000	2,548,242	(1,776,758)	
Expenditures:							
Current							
Project administration	4,700	3,077	1,623				
insurance	1,000		1,000				
Legal fees	3,000	1,078	1,922				
Miscellaneous	7,800	7,134	666				
Capital outlay				4,325,000	2,540,899	1,784,101	
Total expenditures	16,500	11,289	5,211	4,325,000	2,540,899	1,784,101	
Excess (deficiency) of revenues over expenditures	*****				7,343	7,343	
Other Financing Sources (Uses):							
Operating transfers in					8,062	8,062	
Operating transfers out		(8,062)	(8,062)		×		
Total other financing sources (uses)		(8,062)	(8,062)		8,062	8,062	
Excess (deficiency) of revenues and other financing sources over expenditures and							
other financing uses		(8,062)	(8,062)		15,405	15,405	
Fund balances, beginning of year	8,062	8,062		- 65,213	65,213		
Fund balances, end of year	\$8,062	\$	\$(8,062)	\$ 65,213	\$\$	\$	

The Notes to Financial Statements are an integral part of this statement.

Note 1. Summary of Significant Accounting Policies

The financial statements of the North Dallas County Water Supply Corporation are presented in accordance with generally accepted accounting principles applicable to state and local governmental units as set forth by the Governmental Accounting Standards Board. The following is a summary of the more significant accounting and reporting policies and practices.

Organization and Reporting Entity

The North Dallas County Water Supply Corporation ("Corporation") was incorporated on April 29, 1991 as a public instrumentality and non-profit water supply corporation under Article 1434a, Texas Revised Civil Statutes Annotated, as amended. The Corporation was formed with the approval of the Town Council of the Town of Addison, Texas ("Town"), and the City Council of the City of Farmers Branch, Texas ("City"), to provide sanitary sewer interceptor services to the Town and City on a joint basis. The affairs of the Corporation are managed by a six person board of directors that is appointed by the governing bodies of the Town and the City.

The Corporation's financial statements include the accounts of all Corporate activities.

Operations

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The Corporation was formed to design, finance, construct, operate and maintain a joint sanitary sewer interceptor. Costs of development, financing, overhead, operations and maintenance are allocated to the Town and City in accordance with an interlocal sanitary sewer interceptor agreement.

Basis of Presentation

The accounts of the Corporation are organized on the basis of funds and account groups, each of which is considered a separate accounting entity. The operations of each fund are accounted for with a separate set of self-balancing accounts that comprise its assets, liabilities, fund equity, revenues, and expenditures, as appropriate. Government resources are allocated to and accounted for in individual funds based upon the purposes for which they are to be spent and the means by which spending activities are controlled. The various funds are grouped, in the financial statements in this report, into the fund types and account groups listed below:

Governmental Funds

General fund - is the general operating fund of the Corporation. It is used to account for all financial resources except those required to be accounted for in another fund.

<u>Capital projects fund</u> - is used to account for financial resources to be used for the construction of the joint sanitary sewer interceptor project.

Account Group

General fixed assets account group - is utilized to account for fixed assets utilized in governmental fund type operations.

Note 1. Summary of Significant Accounting Policies - continued

Measurement Focus

Measurement focus is the accounting convention which determines which assets and liabilities are included on the balance sheet of a fund type and whether a fund type's operating statement presents "financial flow" or capital maintenance information.

All governmental fund types are accounted for on a spending or "financial flow" measurement focus. This means that only current assets and current liabilities are generally included on their balance sheets. Their reported fund balance is considered a measure of "available spendable resources". Governmental fund operating statements present increases (revenues and other financing sources) and decreases (expenditures and other financing uses) in net current assets. Accordingly, they are said to present a summary of sources and uses of "available spendable resources" during a period. Fixed assets used in governmental fund type operations are accounted for in the General Fixed Assets account group, which is not a "fund". It is concerned only with the measurement of financial position. It is not involved with the measurement of results of operations.

Basis of Accounting

Basis of accounting refers to when revenues and expenditures or expenses are recognized in accounts and reported in the financial statements. Basis of accounting relates to the timing of the measurements made, regardless of the measurement focus applied.

All governmental fund types are accounted for using the modified accrual basis of accounting. Under the modified accrual basis of accounting, revenues are recognized when they become measurable and available as net current assets. Primary revenues of the governmental fund types which have been accrued are charges to participant cities for liabilities of the Corporation which were incurred but not reimbursed by participant cities prior to year end. This amount is considered available due to the close relationship between the Corporation and participant cities. Expenditures are generally recognized under the modified accrual basis of accounting when the related fund liability is incurred.

Budget

At least sixty days prior to the commencement of each fiscal year, the Board of Directors of the Corporation adopts a proposed budget of expected revenues and proposed expenditures for the next ensuing fiscal year. The budget is not effective until approved by the Town and City.

General Fixed Assets

General fixed assets have been acquired or constructed for general governmental purposes from governmental fund types. Assets purchased or constructed in these funds are recorded as expenditures and capitalized at cost in the general fixed asset account group. No depreciation is provided on general fixed assets.

Note 1. Summary of Significant Accounting Policies - continued

Memorandum Only - Total Columns

The total columns presented in the financial statements are captioned "Memorandum Only" to indicate that they are presented only to facilitate financial analysis. Data in these columns do not present financial position or results of operations in conformity with generally accepted accounting principles. Neither are such data comparable to a consolidation. Interfund eliminations have not been made in the aggregation of these data.

Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Note 2. Cash and Investments

Deposits

At September 30, 1996, the carrying amount of the Corporation's cash deposits held at the Corporation's depository bank was \$83,156 and the bank balance was \$84,458. In addition to the \$100,000 of federal deposit insurance, the Corporation's depository bank had pledged in the Corporation's name \$1,049,055 in additional collateral held by the Corporation's agent in the Corporation's name.

Cash deposits held at financial institutions can be categorized according to three levels of risk. These three levels of risk are:

Category 1	Deposits which are insured or collateralized with securities held by the entity or by its agent in the entity's name.
Category 2	Deposits which are collatenalized with securities held by the pledging financial institution's trust department or agent in the entity's name.
Category 3	Deposits which are not collateralized.

Based on these three levels of risk, the Corporation's cash deposits at September 30, 1996 are classified as Category 1.

Investments

The investment policy approved by the Board of Directors of the Corporation authorizes the investment of the Corporation's funds in obligations of the United States or its agencies and instrumentalities, fully collateralized direct repurchase agreements with a defined termination date secured by obligations of the United States or its agencies and instrumentalities, or joint pools of political subdivisions in the State of Texas which invest in instruments allowed by current law. The Corporation had no investments at September 30, 1996.

Note 3. General Fixed Assets

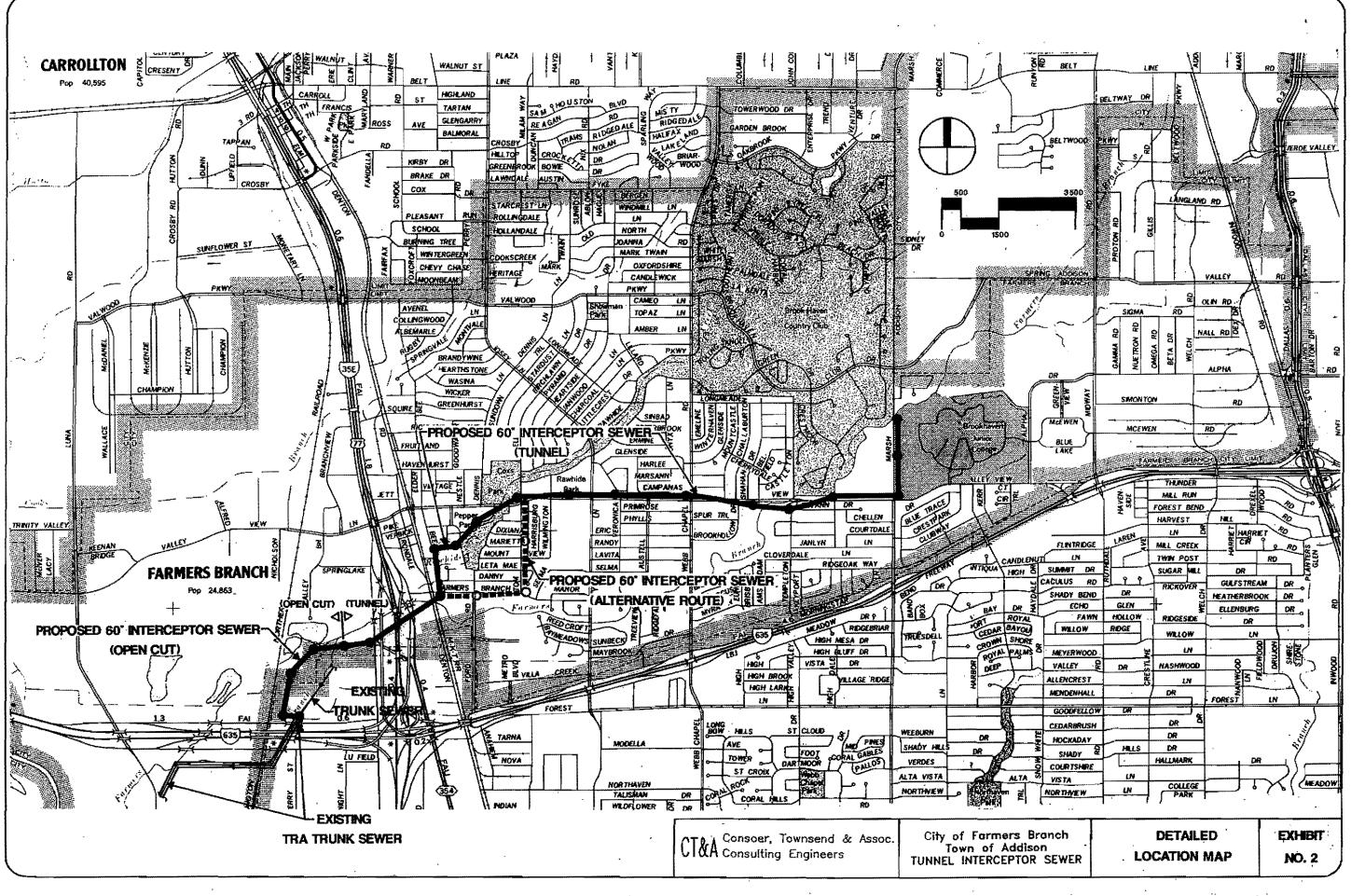
A summary of changes in general fixed assets follows:

	Balance at beginning of year	Additions	Balance at end of year
Construction in progress	<u>\$12.624.059</u>	<u>\$2,540,898</u>	<u>\$15.164.957</u>

Note 4. Commitments

At September 30, 1996, the Corporation is committed under the following outstanding construction contracts in the Capital Projects Fund.

Phase I construction	\$ 61,787
Phase II construction	69,117



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