

MODIFICATION #6 SUMMARY

PROJECT TITLE: Big Walnut Augmentation/Rickenbacker Sanitary Interceptor

CIP NO.: 491.1 and 430.1

January 1, 2007 - December 31, 2007

		HR Gray	Lachel	URS	Mod #6 TOTAL	
Part 1	Office DL	\$31,824	\$21,520	\$60,249		
CM	Office OH	\$56,010	\$31,634	\$101,821		
	Office Profit	\$8,783	\$5,315	\$16,207		
	Office Exp	\$668	\$12,356	\$16,000		
	Office Subs	\$30,000	\$0	\$10,000		
	Office Total	\$127,285	\$70,825	\$204,277	\$402,387	Part 1 CM
Part 1	Field DL	\$337,792	\$23,650	\$154,920		
Inspection	Field OH	\$506,688	\$34,293	\$215,339		
	Field Profit	\$84,448	\$5,794	\$37,026		
	Field Exp	\$19,925	\$0	\$33,995		
	Field Subs	\$327,910	\$0	\$0		
	Field Total	\$1,276,763	\$63,737	\$441,280	\$1,781,780	Part 1 Inspection
Part 2	Office DL	\$30,876	\$45,780	\$88,480		
CM	Office OH	\$54,341	\$67,297	\$149,532		
	Office Profit	\$8,522	\$11,308	\$23,801		
	Office Exp	\$668	\$10,367	\$16,000		
	Office Subs	\$60,000	\$0	\$10,000		
	Office Total	\$154,407	\$134,752	\$287,813	\$576,972	Part 2 CM
Part 2	Field DL	\$352,352	\$55,200	\$193,309		
Inspection	Field OH	\$528,528	\$80,040	\$268,700		
	Field Profit	\$88,088	\$13,524	\$46,201		
	Field Exp	\$22,150	\$0	\$33,995		
	Field Subs	\$327,745	\$0	\$0		
	Field Total	\$1,318,863	\$148,764	\$542,205	\$2,009,832	Part 2 Inspection
Part 2B	Office DL	\$8,262	\$0	\$30,345		
CM	Office OH	\$14,541	\$0	\$51,282		
	Office Profit	\$2,280	\$0	\$8,163		
	Office Exp	\$445	\$0	\$2,500		
	Office Subs	\$15,000	\$0	\$15,000		
	Office Total	\$40,528	\$0	\$107,290	\$147,818	Part 2B CM
Part 2B	Field DL	\$51,397	\$0	\$37,332		
Inspection	Field OH	\$77,095	\$0	\$51,891		
	Field Profit	\$12,849	\$0	\$8,922		
	Field Exp	\$5,238	\$0	\$890		
	Field Subs	\$15,000	\$0	\$0		
	Field Total	\$161,579	\$0	\$99,035	\$260,614	Part 2B Inspection
	Subtotals	\$3,079,425	\$418,078	\$1,681,900	\$5,179,403	TOTAL Modification #6

EXHIBIT C: COST SUMMARY
SUMMARY OF ENTIRE PROJECT - BWARI, BWOAS & AQCF - MODIFICATION #6

1. CITY: Department of Public Utilities		2. CIP: 491.1 & 430.1		3. VERSION: <i>Mod. #6</i> <i>from 01/01/07 to 12/31/07</i>	
4. NAME OF CONSULTANT: URS		5. PROJECT TITLE: BWARI, BWOAS & AQCF			
6. ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566		7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8. DIRECT LABOR (specify labor categories):		HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (PR)		\$75.13	90	\$6,762	
Project Manager (PM)		\$69.16	569	\$39,352	
Project Engineer (PE)		\$57.25	990	\$56,678	
Field Engineer (FE)		\$71.09	2340	\$166,351	
Inspector (INSP)		\$45.86	4780	\$219,211	
Design Engineer (DE)		\$45.32	752	\$34,081	
Registered Surveyor (RS)		\$40.54	128	\$5,189	
Cadd Technician/Drafter (D1)		\$31.01	458	\$14,203	
Engineering Technician(ET)		\$28.62	542	\$15,512	
Clerical (CL)		\$23.85	306	\$7,298	
DIRECT LABOR TOTAL:			10955		\$564,635
9. INDIRECT COSTS		Rate	x DL Total	Est. Cost	
Payroll/Admin (Office personnel)		1.69	\$179,073	\$302,634	
Payroll/Admin (Field personnel)		1.39	\$385,562	\$535,931	
INDIRECT COSTS TOTAL:				\$838,565	\$838,565
10. OTHER DIRECT COSTS (ODC)		Rate		Est. Cost	
a. Travel auto/mileage			\$27,840	\$27,840	
b. Equipment, Materials, Supplies		Qty.	Unit Cost	Est. Cost	
Furnished Apartment & Utilities				\$14,400	
Per Diem@\$49/day		260	\$49/day	\$12,740	
Rental Vehicle, Airfare, Misc Travel Costs (Field Personnel)				\$36,400	
				\$0	
Subtotal:				\$63,540	
c. Subcontracts				Est. Cost	
H. R. Gray and Associates				\$3,079,425	
Lachel Felice Associates				\$418,078	
Materials Testing (In HR Gray Estimate)				\$0	
Misc Subs/Experts/Public Education/SCADA Path Study				\$20,000	
Odor & Corrosion Technology Consultants (OCTC)				\$15,000	
Subcontracts Subtotal:				\$3,532,503	
d. Other (specify categories)				Est. Cost	
Lab Testing, equip. rental				\$12,000	
Other Subtotal:				\$12,000	
e. OTHER DIRECT COSTS TOTAL:					\$3,635,883
11. TOTAL COST					\$5,039,083
12. FIXED FEE (including profit) PERCENT AMOUNT:			10%		\$140,320
13. TOTAL PRICE					\$5,179,403
14. CONTINGENCY SERVICES @ 15% OF LINE 13			EXCLUDED FROM TOTALS		\$0
15. MAX REIMBURSEMENT FOR PTI					\$0
16. CONTRACT TOTAL					\$5,179,403

URS Corporation

URS CORPORATION

PROJECT TITLE: Big Walnut Augmentation/Rickenbacker Sanitary Interceptor

CIP NO.: 491.1 and 430.1

Project Duration From/To: 1-Jan-07 31-Dec-07

MAXIMUM HOURLY RATE SCHEDULE

Labor Categories	YEAR	
	2006	2007
Principal (PR)	\$71.55	\$75.13
Project Manager (PM)	\$65.87	\$69.16
Project Engineer (PE)	\$54.52	\$57.25
Field Engineer(FE)	\$67.70	\$71.09
Inspector (INSP)	\$43.68	\$45.86
Design Engineer (DE)	\$43.16	\$45.32
Registered Surveyor (RS)	\$38.61	\$40.54
Cadd Technician/Drafter (D1)	\$29.53	\$31.01
Engineering Technician(ET)	\$27.26	\$28.62
Clerical (CL)	\$22.71	\$23.85

EXHIBIT B
ESTIMATE OF TIME ALLOCATION BY TASK ACTIVITY

PROJECT TITLE: Big Walnut Augmentation/Rickenbacker Sanitary Interceptor (BWARI)
 Part 1 Construction Management Services - January 1, 2007 to December 31, 2007
 FIRM: URS CIP NO.: 491.1

TASK NO.	ACTIVITY	PR	MAN HOURS							TOTAL			
			PM	PE	FE	INSP	DE	RS	D1		ET	CL	
2.1	General												0
2.2	Preliminary Design Report												0
2.3	Field Survey												0
2.4	Geotechnical /Geophysical Work												0
2.5	Drawings												0
2.5.8	Detailed Design Summary Report												0
2.5.9	Specifications												0
2.5.11	Constructability Review												0
2.6	Easements												0
2.7	Supplemental												0
2.8	Bid Documents												0
2.9	OEPA Permit To Install (PTI)												0
2.10	Other Permits, Plans, and Evaluations												0
2.11	Engineering During Const./Shop Dwgs	32	220	330	0	0	204	40	144	212	98	0	1280
2.11	Construction Management Field Services												0
2.11	Resident Project Representation Svr												0
	Total Hours For Mod #6	32	220	330	0	0	204	40	144	212	98	0	1280

Principal (PR)	\$75.13	per hour
Project Manager (PM)	\$69.16	per hour
Project Engineer (PE)	\$57.25	per hour
Field Engineer (FE)	\$71.09	per hour at field overhead rate
Inspector (INSP)	\$45.86	per hour at field overhead rate
Design Engineer (DE)	\$45.32	per hour
Registered Surveyor (RS)	\$40.54	per hour
Cadd Technician/Drafter (D1)	\$31.01	per hour
Engineering Technician(ET)	\$28.62	per hour
Clerical (CL)	\$23.85	per hour

EXHIBIT C: COST SUMMARY

Part 1 Construction Management Services Portion of Mod #6

1. CITY: Department of Public Utilities		2. CIP: 491.1	3. VERSION: <i>Mod. #6</i> <i>from 01/01/07 to 12/31/07</i>	
4. NAME OF CONSULTANT: URS		5. PROJECT TITLE: Big Walnut Augmentation/Rickenbacker Sanitary Interceptor (BWARI)		
6. ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566		7. TYPE OF CONTRACT Cost Plus Fixed Fee		
8. DIRECT LABOR (specify labor categories):		HOUR RATE	EST. HOURS	EST. COST
Principal (PR)		\$75.13	32	\$2,404
Project Manager (PM)		\$69.16	220	\$15,215
Project Engineer (PE)		\$57.25	330	\$18,893
Field Engineer (FE)		\$71.09	0	\$0
Inspector (INSP)		\$45.86	0	\$0
Design Engineer (DE)		\$45.32	204	\$9,245
Registered Surveyor (RS)		\$40.54	40	\$1,622
Cadd Technician/Drafter (D1)		\$31.01	144	\$4,465
Engineering Technician(ET)		\$28.62	212	\$6,067
Clerical (CL)		\$23.85	98	\$2,337
DIRECT LABOR TOTAL:			1280	\$60,249
9. INDIRECT COSTS		Rate	x DL Total	Est. Cost
Payroll/Admin (Office personnel)		1.69	\$60,249	\$101,821
Payroll/Admin (Field personnel)		1.39	\$0	\$0
INDIRECT COSTS TOTAL:				\$101,821
10. OTHER DIRECT COSTS (ODC)		Rate		Est. Cost
a. Travel /airline/auto/milage(out of town employees)		1	\$10,000.00	\$10,000
b. Equipment, Materials, Supplies		Qty.	Unit Cost	Est. Cost
Postage, printing,plotting				\$0
Supplies				\$0
Permit Fees				\$0
Field Office Maintenance(In HR Gray Estimate)				\$0
Subtotal:				\$0
c. Subcontracts				Est. Cost
H. R. Gray and Associates, Inc. (see HR Gray Estimate)				\$0
Lachel Felice Associates (see Lachel Felice Estimate)				\$0
Material Testing (In HR Gray Estimate)				\$0
Bergmann Associates (Sean Murphy Expert Witness)				\$0
Misc Subs/Experts/Public Education/				\$10,000
Subcontracts Subtotal:				\$10,000
d. Other (specify categories)				Est. Cost
Lab Testing, equip. rental				\$6,000
Other Subtotal:				\$6,000
e. OTHER DIRECT COSTS TOTAL:				\$26,000
11. TOTAL COST				\$188,070
12. FIXED FEE (including profit) PERCENT AMOUNT:			10%	\$16,207
13. TOTAL PRICE				\$204,277
14. CONTINGENCY SERVICES @ 15% OF LINE 13		EXCLUDED FROM TOTALS		\$0
15. MAX REIMBURSEMENT FOR PTI				\$0
16. CONTRACT TOTAL				\$204,277

**EXHIBIT B
ESTIMATE OF TIME ALLOCATION BY TASK ACTIVITY**

**PROJECT TITLE: Big Walnut Augmentation/Rickenbacker Sanitary Interceptor (BWARI)
Part 1 Construction Field Services - January 1, 2007 to December 31, 2007
FIRM: URS**

CIP NO.: 491.1

TASK NO.	ACTIVITY	MAN HOURS											TOTAL	
		PR	PM	PE	FE	INSP	DE	RS	D1	ET	CL			
2.1	General													0
2.2	Preliminary Design Report													0
2.3	Field Survey													0
2.4	Geotechnical /Geophysical Work													0
2.5	Drawings													0
2.5.8	Detailed Design Summary Report													0
2.5.9	Specifications													0
2.5.11	Constructability Review													0
2.6	Easements													0
2.7	Supplemental													0
2.8	Bid Documents													0
2.9	OEPA Permit To Install (PTI)													0
2.10	Other Permits, Plans, and Evaluations													0
2.11	Engineering During Const /Shop Dwgs													0
2.11	Construction Management Field Services	0	0	0	760	2200	0	0	0	0	0	0	0	2960
2.11	Resident Project Representation Svr													0
Total Hours For Mod #6		0	0	0	760	2200	0	0	0	0	0	0	0	2960

Principal (PR)	\$75.13	per hour
Project Manager (PM)	\$69.16	per hour
Project Engineer (PE)	\$57.25	per hour
Field Engineer (FE)	\$71.09	per hour at field overhead rate
Inspector (INSP)	\$45.86	per hour at field overhead rate
Design Engineer (DE)	\$45.32	per hour
Registered Surveyor (RS)	\$40.54	per hour
Cadd Technician/Drafter (D1)	\$31.01	per hour
Engineering Technician(ET)	\$28.62	per hour
Clerical (CL)	\$23.85	per hour

EXHIBIT C: COST SUMMARY

Part 1 Construction Field Services Portion of Mod #6

1.	CITY: Department of Public Utilities	2. CIP: 491.1	3. VERSION: <i>Mod. #6</i> from 01/01/07 to 12/31/07		
4.	NAME OF CONSULTANT: URS	5. PROJECT TITLE: Big Walnut Augmentation/Rickenbacker Sanitary Interceptor (BWARI)			
6.	ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566	7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8.	DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Principal (PR)	\$75.13	0	\$0	
	Project Manager (PM)	\$69.16	0	\$0	
	Project Engineer (PE)	\$57.25	0	\$0	
	Field Engineer (FE)	\$71.09	760	\$54,028	
	Inspector (INSP)	\$45.86	2200	\$100,892	
	Design Engineer (DE)	\$45.32	0	\$0	
	Registered Surveyor (RS)	\$40.54	0	\$0	
	Cadd Technician/Drafter (D1)	\$31.01	0	\$0	
	Engineering Technician(ET)	\$28.62	0	\$0	
	Clerical (CL)	\$23.85	0	\$0	
	DIRECT LABOR TOTAL:		2960		\$154,920
9.	INDIRECT COSTS	Rate	x DL Total	Est. Cost	
	Payroll/Admin (Office personnel)	1.69	\$0	\$0	
	Payroll/Admin (Field personnel)	1.39	\$154,920	\$215,339	
	INDIRECT COSTS TOTAL:			\$215,339	\$215,339
10.	OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
	a. Travel (Miles X Rate per mile) On-site	5000	\$0.445	\$2,225	
	b. Equipment, Materials, Supplies	Qty.	Unit Cost	Est. Cost	
	Furnished Apartment & Utilities			\$7,200	
	Per Diem@\$49/day	130	\$49/day	\$6,370	
	Rental Vehicle, Airfare, Misc Travel Costs to site			\$18,200	
	Field Office Maintenance(In HR Gray Estimate)			\$0	
	Subtotal:			\$31,770	
	c. Subcontracts			Est. Cost	
	H. R. Gray and Associates (see HR Gray Estimate)			\$0	
	Lachel Felice Associates (see Lachel Felice Estimate)			\$0	
	Material Testing (In HR Gray Estimate)			\$0	
	Misc. Subs/Experts/Public Education/			\$0	
	Subcontracts Subtotal:			\$0	
	d. Other (specify categories)			Est. Cost	
	Other Subtotal:			\$0	
	e. OTHER DIRECT COSTS TOTAL:				\$33,995
11.	TOTAL COST				\$404,254
12.	FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$37,026
13.	TOTAL PRICE				\$441,280
14.	CONTINGENCY SERVICES @ 15% OF LINE 13		EXCLUDED FROM TOTALS		\$0
15.	MAX REIMBURSEMENT FOR PTI				\$0
16.	CONTRACT TOTAL				\$441,280

EXHIBIT B
ESTIMATE OF TIME ALLOCATION BY TASK ACTIVITY

PROJECT TITLE: **Big Walnut Outfall Augmentation Sewer (BWOAS)**
 Part 2 Construction Management Services - January 1, 2007 to December 31, 2007
 FIRM: URS

CIP NO.: 430.1

TASK NO.	ACTIVITY	PR	MAN HOURS											TOTAL			
			PM	PE	INSP	FE	DE	RS	D1	ET	CL						
2.1	General																0
2.2	Preliminary Design Report																0
2.3	Field Survey																0
2.4	Geotechnical /Geophysical Work																0
2.5	Drawings																0
2.5.8	Detailed Design Summary Report																0
2.5.9	Specifications																0
2.5.11	Constructability Review																0
2.6	Easements																0
2.7	Supplemental																0
2.8	Bid Documents																0
2.9	OEPA Permit To Install (PTI)																0
2.10	Other Permits, Plans, and Evaluations																0
2.11	Engineering During Const /Shop Dwgs	46	295	480	0	394	40	222	250	152	0	1879					0
2.11	Construction Management Field Services																0
2.11	Resident Project Representation Svr																0
Total Hours For Mod #6		46	295	480	0	394	40	222	250	152	0	1879					0

- | | |
|------------------------------|---|
| Principal (PR) | \$75.13 per hour |
| Project Manager (PM) | \$69.16 per hour |
| Project Engineer (PE) | \$67.25 per hour |
| Field Engineer (FE) | \$71.09 per hour at field overhead rate |
| Inspector (INSP) | \$45.86 per hour at field overhead rate |
| Design Engineer (DE) | \$45.32 per hour |
| Registered Surveyor (RS) | \$40.54 per hour |
| Cadd Technician/Drafter (D1) | \$31.01 per hour |
| Engineering Technician(ET) | \$28.62 per hour |
| Clerical (CL) | \$23.85 per hour |

EXHIBIT C: COST SUMMARY

Part 2 Construction Management Services Portion of Mod #6

1.	CITY: Department of Public Utilities	2. CIP: 430.1	3. VERSION: <i>Mod. #6</i> <i>from 01/01/07 to 12/31/07</i>		
4.	NAME OF CONSULTANT: <i>URS</i>	5. PROJECT TITLE: <i>Big Walnut Outfall Augmentation</i> <i>Sewer (BWOAS)</i>			
6.	ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566	7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8.	DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Principal (PR)	\$75.13	46	\$3,456	
	Project Manager (PM)	\$69.16	295	\$20,402	
	Project Engineer (PE)	\$57.25	480	\$27,480	
	Field Engineer (FE)	\$71.09	0	\$0	
	Inspector (INSP)	\$45.86	0	\$0	
	Design Engineer (DE)	\$45.32	394	\$17,856	
	Registered Surveyor (RS)	\$40.54	40	\$1,622	
	Cadd Technician/Drafter (D1)	\$31.01	222	\$6,884	
	Engineering Technician(ET)	\$28.62	250	\$7,155	
	Clerical (CL)	\$23.85	152	\$3,625	
	DIRECT LABOR TOTAL:		1879		\$88,480
9.	INDIRECT COSTS	Rate	x DL Total	Est. Cost	
	Payroll/Admin (Office personnel)	1.69	\$88,480	\$149,532	
	Payroll/Admin (Field personnel)	1.39	\$0	\$0	
	INDIRECT COSTS TOTAL:			\$149,532	\$149,532
10.	OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
	a. Travel /airline/auto/milage(out of town employees)	1	\$10,000.00	\$10,000	
	b. Equipment, Materials, Supplies	Qty.	Unit Cost	Est. Cost	
	Postage, printing,plotting			\$0	
	Supplies			\$0	
	Permit Fees			\$0	
	Field Office Maintenance(In HR Gray estimate)			\$0	
	Subtotal:				\$0
	c. Subcontracts			Est. Cost	
	H. R. Gray and Associates (see HR Gray Estimate)			\$0	
	Lachel Felice Associates (see Lachel Felice Estimate)			\$0	
	Material Testing (In HR Gray estimate)			\$0	
	Soils/Geotechnical (BBC&M)			\$0	
	Misc Subs/Experts/Public Education/SCADA Path Study			\$10,000	
	Odor & Corrosion Technology Consultants (OCTC)			\$0	
	Subcontracts Subtotal:				\$10,000
	d. Other (specify categories)			Est. Cost	
	Lab Testing, equip. rental			\$6,000	
	Other Subtotal:				\$6,000
	e. OTHER DIRECT COSTS TOTAL:				\$26,000
11.	TOTAL COST				\$264,012
12.	FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$23,801
13.	TOTAL PRICE				\$287,813
14.	CONTINGENCY SERVICES @ 15% OF LINE 13		EXCLUDED FROM TOTALS		\$0
15.	MAX REIMBURSEMENT FOR PTI				\$0
16.	CONTRACT TOTAL				\$287,813

EXHIBIT B
ESTIMATE OF TIME ALLOCATION BY TASK ACTIVITY

PROJECT TITLE: Big Walnut Outfall Augmentation Sewer (BWOAS)
Part 2 Construction Field Services - January 1, 2007 to December 31, 2007
FIRM: URS

CIP NO. 430.1

TASK NO.	ACTIVITY	MAN HOURS											TOTAL			
		PR	PM	PE	FE	INSP	DE	RS	D1	ET	CL					
2.1	General															0
2.2	Preliminary Design Report															0
2.3	Field Survey															0
2.4	Geotechnical /Geophysical Work															0
2.5	Drawings															0
2.5.8	Detailed Design Summary Report															0
2.5.9	Specifications															0
2.5.11	Constructability Review															0
2.6	Easements															0
2.7	Supplemental															0
2.8	Bid Documents															0
2.9	OEPA Permit To Install (PTI)															0
2.10	Other Permits, Plans, and Evaluations															0
2.11	Engineering During Const /Shop Dwgs															0
2.11	Construction Management Field Services	0	0	0	1300	2200	0	0	0	0	0	0	0	0	0	3500
2.11	Resident Project Representation Svr.															0
Total Hours For Mod #6		0	0	0	1300	2200	0	0	0	0	0	0	0	0	0	3500

Principal (PR)	\$75.13	per hour
Project Manager (PM)	\$69.16	per hour
Project Engineer (PE)	\$57.25	per hour
Field Engineer (FE)	\$71.09	per hour at field overhead rate
Inspector (INSP)	\$45.86	per hour at field overhead rate
Design Engineer (DE)	\$45.32	per hour
Registered Surveyor (RS)	\$40.54	per hour
Cadd Technician/Drafter (D1)	\$31.01	per hour
Engineering Technician(ET)	\$28.62	per hour
Clerical (CL)	\$23.85	per hour

EXHIBIT C: COST SUMMARY

Part 2 Construction Field Services Portion of Mod #6

1. CITY: Department of Public Utilities		2. CIP: 430.1	3. VERSION: Mod. #6 from 01/01/07 to 12/31/07		
4. NAME OF CONSULTANT: URS		5. PROJECT TITLE: Big Walnut Outfall Augmentation Sewer (BWOAS)			
6. ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566		7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8.	DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Principal (PR)	\$75.13	0	\$0	
	Project Manager (PM)	\$69.16	0	\$0	
	Project Engineer (PE)	\$57.25	0	\$0	
	Field Engineer (FE)	\$71.09	1300	\$92,417	
	Inspector (INSP)	\$45.86	2200	\$100,892	
	Design Engineer (DE)	\$45.32	0	\$0	
	Registered Surveyor (RS)	\$40.54	0	\$0	
	Cadd Technician/Drafter (D1)	\$31.01	0	\$0	
	Engineering Technician(ET)	\$28.62	0	\$0	
	Clerical (CL)	\$23.85	0	\$0	
	DIRECT LABOR TOTAL:		3500		\$193,309
9.	INDIRECT COSTS	Rate	x DL Total	Est. Cost	
	Payroll/Admin (Office personnel)	1.69	\$0	\$0	
	Payroll/Admin (Field personnel)	1.39	\$193,309	\$268,700	
	INDIRECT COSTS TOTAL:			\$268,700	\$268,700
10.	OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
	a. Travel (Miles X Rate per mile) On-site	5000	\$0.445	\$2,225	
	b. Equipment, Materials, Supplies	Qty.	Unit Cost	Est. Cost	
	Furnished Apartment & Utilities			\$7,200	
	Per Diem@\$49/day	130	\$49/day	\$6,370	
	Rental Vehicle, Airfare, Misc Travel Costs to site			\$18,200	
	Field Office Maintenance(In HR Gray estimate)			\$0	
	Subtotal:			\$31,770	
	c. Subcontracts			Est. Cost	
	H. R. Gray and Associates (see HR Gray Estimate)			\$0	
	Lachel Felice Associates (see Lachel Felice Estimate)			\$0	
	Material Testing (In HR Gray estimate)			\$0	
				\$0	
	Misc Subs/Experts/Public Education/			\$0	
				\$0	
	Subcontracts Subtotal:			\$0	
	d. Other (specify categories)			Est. Cost	
				\$0	
	Other Subtotal:			\$0	
	e. OTHER DIRECT COSTS TOTAL:				\$33,995
11.	TOTAL COST				\$496,004
12.	FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$46,201
13.	TOTAL PRICE				\$542,205
14.	CONTINGENCY SERVICES @ 15% OF LINE 13		EXCLUDED FROM TOTALS		\$0
15.	MAX REIMBURSEMENT FOR PTI				\$0
16.	CONTRACT TOTAL				\$542,205

PROJECT TITLE: Air Quality Control Facility (AQCF)

Part 2B Construction Management Services - January 1, 2007 to December 31, 2007

CIP NO. 430.1

FIRM: URS

TASK NO.	ACTIVITY	MAN HOURS											TOTAL			
		PR	PM	PE	FE	INSP	DE	RS	D1	ET	CL					
2.1	General														0	
2.2	Preliminary Design Report															0
2.3	Field Survey															0
2.4	Geotechnical /Geophysical Work															0
2.5	Drawings															0
2.5.8	Detailed Design Summary Report															0
2.5.9	Specifications															0
2.5.11	Constructability Review															0
2.6	Easements															0
2.7	Supplemental															0
2.8	Bid Documents															0
2.9	OEPA Permit To Install (PTI)															0
2.10	Other Permits, Plans, and Evaluations															0
2.11	Engineering During Const./Shop Dwgs	12	54	180	0	0	154	48	92	80	56				676	
2.11	Construction Management Field Services															0
2.11	Resident Project Representation Svr															0
	Total Hours For Mod #6	12	54	180	0	0	154	48	92	80	56				676	

Principal (PR)	\$75.13	per hour
Project Manager (PM)	\$69.16	per hour
Project Engineer (PE)	\$57.25	per hour
Field Engineer (FE)	\$71.09	per hour
Inspector (INSP)	\$45.86	per hour
Design Engineer (DE)	\$45.32	per hour
Registered Surveyor (RS)	\$40.54	per hour
Cadd Technician/Drafter (D1)	\$31.01	per hour
Engineering Technician(ET)	\$28.62	per hour
Clerical (CL)	\$23.85	per hour

at field overhead rate
 at field overhead rate

EXHIBIT C: COST SUMMARY

Part 2B Construction Management Services Portion of Mod #6

1.	CITY: Department of Public Utilities	2. CIP: 430.1	3. VERSION: <i>Mod. #6</i> <i>from 01/01/07 to 12/31/07</i>		
4.	NAME OF CONSULTANT: URS	5. PROJECT TITLE: Air Quality Control Facility (AQCF)- Part 2B			
6.	ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566	7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8.	DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Principal (PR)	\$75.13	12	\$902	
	Project Manager (PM)	\$69.16	54	\$3,735	
	Project Engineer (PE)	\$57.25	180	\$10,305	
	Field Engineer (FE)	\$71.09	0	\$0	
	Inspector (INSP)	\$45.86	0	\$0	
	Design Engineer (DE)	\$45.32	154	\$6,979	
	Registered Surveyor (RS)	\$40.54	48	\$1,946	
	Cadd Technician/Drafter (D1)	\$31.01	92	\$2,853	
	Engineering Technician(ET)	\$28.62	80	\$2,290	
	Clerical (CL)	\$23.85	56	\$1,336	
	DIRECT LABOR TOTAL:		676		\$30,345
9.	INDIRECT COSTS	Rate	x DL Total	Est. Cost	
	Payroll/Admin (Office personnel)	1.69	\$30,345	\$51,282	
	Payroll/Admin (Field personnel)	1.39	\$0	\$0	
	INDIRECT COSTS TOTAL:			\$51,282	\$51,282
10.	OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
	a. Travel /airline/auto/milage(out of town employees)	1	\$2,500	\$2,500	
	b. Equipment, Materials, Supplies	Qty.	Unit Cost	Est. Cost	
	Postage, printing,plotting			\$0	
	Supplies			\$0	
	Permit Fees			\$0	
	Field Office Maintenance(In HR Gray estimate)			\$0	
	Subtotal:			\$0	
	c. Subcontracts			Est. Cost	
	H. R. Gray and Associates (see HR Gray Estimate)			\$0	
	Lachel Felice Associates (see Lachel Felice Estimate)			\$0	
	Material Testing (In HR Gray estimate)			\$0	
	Soils/Geotechnical (BBC&M)			\$0	
	Misc Subs/Experts/Public Education/SCADA Path Study			\$0	
	Odor & Corrosion Technology Consultants (OCTC)			\$15,000	
	Subcontracts Subtotal:			\$15,000	
	d. Other (specify categories)			Est. Cost	
	Lab Testing on water/equip. rental			\$0	
	Other Subtotal:			\$0	
	e. OTHER DIRECT COSTS TOTAL:				\$17,500
11.	TOTAL COST				\$99,127
12.	FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$8,163
13.	TOTAL PRICE				\$107,290
14.	CONTINGENCY SERVICES @ 15% OF LINE 13		EXCLUDED FROM TOTALS		\$0
15.	MAX REIMBURSEMENT FOR PTI				\$0
16.	CONTRACT TOTAL				\$107,290

EXHIBIT B
ESTIMATE OF TIME ALLOCATION BY TASK ACTIVITY

PROJECT TITLE: Air Quality Control Facility (AQCF)

Part 2B Construction Field Services - January 1, 2007 to December 31, 2007

FIRM: URS

CIP NO. 430.1

TASK NO.	ACTIVITY	MAN HOURS											TOTAL	
		PR	PM	PE	FE	INSP	DE	RS	D1	ET	CL			
2.1	General													0
2.2	Preliminary Design Report													0
2.3	Field Survey													0
2.4	Geotechnical / Geophysical Work													0
2.5	Drawings													0
2.5.8	Detailed Design Summary Report													0
2.5.9	Specifications													0
2.5.11	Constructability Review													0
2.6	Easements													0
2.7	Supplemental													0
2.8	Bid Documents													0
2.9	OEPA Permit To Install (PTI)													0
2.10	Other Permits, Plans, and Evaluations													0
2.11	Engineering During Const /Shop Dwggs													0
2.11	Construction Management Field Services	0	0	0	280	380	0	0	0	0	0	0	0	660
2.11	Resident Project Representation Svr													0
	Total Hours For Mod #6	0	0	0	280	380	0	0	0	0	0	0	0	660

Principal (PR)	\$75.13	per hour
Project Manager (PM)	\$69.16	per hour
Project Engineer (PE)	\$57.25	per hour
Field Engineer (FE)	\$71.09	per hour at field overhead rate
Inspector (INSP)	\$45.86	per hour at field overhead rate
Design Engineer (DE)	\$45.32	per hour
Registered Surveyor (RS)	\$40.54	per hour
Cadd Technician/Drafter (D1)	\$31.01	per hour
Engineering Technician(ET)	\$28.62	per hour
Clerical (CL)	\$23.85	per hour

EXHIBIT C: COST SUMMARY

Part 2B Construction Field Services Portion of Mod #6

1. CITY: Department of Public Utilities	2. CIP: 430.1	3. VERSION: <i>Mod. #6</i> <i>from 01/01/07 to 12/31/07</i>		
4. NAME OF CONSULTANT: URS	5. PROJECT TITLE: Air Quality Control Facility (AQCF)-Part 2B			
6. ADDRESS: 277 West Nationwide Boulevard Columbus, Ohio 44125-2566	7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (PR)	\$75.13	0	\$0	
Project Manager (PM)	\$69.16	0	\$0	
Project Engineer (PE)	\$57.25	0	\$0	
Field Engineer (FE)	\$71.09	280	\$19,905	
Inspector (INSP)	\$45.86	380	\$17,427	
Design Engineer (DE)	\$45.32	0	\$0	
Registered Surveyor (RS)	\$40.54	0	\$0	
Cadd Technician/Drafter (D1)	\$31.01	0	\$0	
Engineering Technician(ET)	\$28.62	0	\$0	
Clerical (CL)	\$23.85	0	\$0	
DIRECT LABOR TOTAL:		660		\$37,332
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll/Admin (Office personnel)	1.69	\$0	\$0	
Payroll/Admin (Field personnel)	1.39	\$37,332	\$51,891	
INDIRECT COSTS TOTAL:			\$51,891	\$51,891
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per mile) On-site	2000	\$0.445	\$890	
b. Equipment, Materials, Supplies	Qty.	Unit Cost	Est. Cost	
Furnished Apartment & Utilities			\$0	
Per Diem@\$49/day	0	\$49/day	\$0	
Rental Vehicle, Airfare, Misc Travel Costs to site			\$0	
Field Office Maintenance(In HR Gray estimate)			\$0	
Subtotal:			\$0	
c. Subcontracts			Est. Cost	
H. R. Gray and Associates (see HR Gray Estimate)			\$0	
Lachel Felice Associates (see Lachel Felice Estimate)			\$0	
Material Testing (In HR Gray estimate)			\$0	
Misc Subs/Experts/Public Education/			\$0	
Subcontracts Subtotal:			\$0	
d. Other (specify categories)			Est. Cost	
Other Subtotal:			\$0	
e. OTHER DIRECT COSTS TOTAL:				\$890
11. TOTAL COST				\$90,113
12. FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$8,922
13. TOTAL PRICE				\$99,035
14. CONTINGENCY SERVICES @ 15% OF LINE 13			EXCLUDED FROM TOTALS	\$0
15. MAX REIMBURSEMENT FOR PTI				\$0
16. CONTRACT TOTAL				\$99,035

H.R. Gray & Associates

HRG - CM Services During Construction - January 1, 2007 to December 31, 2007

BWARI - PART 1	BWOAS - PART 2	BWOAS - PART 2B	TOTAL Part 1, 2 & 2B
HRGA - Part 2 & BWOAS - AQCF (2B)	BWOAS - AQCF PART 2	BWOAS - AQCF PART 2B	TOTAL Part 1, 2 & 2B
\$ 1,404,049	\$ 1,473,269	\$ 202,107	\$ 3,079,425
45.6%	47.8%	6.6%	100.0%

Home Office Cost			
HRGA Office Labor	\$ 31,824	\$ 30,876	\$ 8,262
Overhead 1.76	\$ 56,010	\$ 54,341	\$ 14,541
Other Direct Costs	\$ -	\$ -	\$ -
Local Mileage	\$ 668	\$ 668	\$ 445
Equip., Materials & Supplies	\$ -	\$ -	\$ -
Subcontracts	\$ -	\$ -	\$ -
Synder Engineering	\$ 7,500	\$ 20,000	\$ -
Ronald Heuer	\$ 7,500	\$ 20,000	\$ 5,000
GTSA	\$ 15,000	\$ 20,000	\$ 10,000
Other	\$ -	\$ -	\$ -
Fee (10%)	\$ 8,783	\$ 8,522	\$ 2,280
Total Office Cost	\$ 127,285	\$ 154,407	\$ 40,528
	4.1%	5.0%	1.3%

Home Field Cost			
HRGA Field Labor	\$ 337,792	\$ 352,352	\$ 51,397
Overhead 1.50	\$ 506,688	\$ 528,528	\$ 77,095
Other Direct Costs	\$ -	\$ -	\$ -
Local Mileage	\$ 8,900	\$ 13,350	\$ 1,558
Equip., Materials & Supplies	\$ 7,525	\$ 5,300	\$ 3,680
Subcontracts	\$ -	\$ -	\$ -
CTL - MBE (Material Testing)	\$ 25,000	\$ 30,000	\$ 15,000
Microman (Computer System Support)	\$ 21,310	\$ 16,145	\$ -
Dynotec - MBE (Tunnel Inspector - 1 ea)	\$ 281,600	\$ 281,600	\$ -
KS Murchison - WBE (Clerical Support - 1 ea)	\$ -	\$ -	\$ -
Dynotec Tunnel Inspectors - Reimbursable Expenses	\$ 3,500	\$ 3,500	\$ -
Fee (10%)	\$ 84,448	\$ 88,088	\$ 12,849
Total Field Cost	\$ 1,276,763	\$ 1,348,863	\$ 161,579
	41.5%	42.3%	5.2%

Construction Cost	\$ 90,779,625	\$ 78,660,000	\$ 4,000,000
	52%	45%	2%
CM Services as Percent of Construction	1.55%	1.87%	5.05%
			1.78%
			\$ 173,439,625
			100%

HRG - CM Services During Construction - MBE/WBE Participation January 1, 2007 to December 31, 2007

Utilization/Participation Breakdown	BWARI - PART 1	BWOAS - PART 2	BWOAS - AQCF PART 2B	TOTAL Part 1, 2 & 2B
1 Sub-Total - HRGA	\$ 1,042,639	\$ 1,082,024	\$ 172,107	\$ 2,296,770
	74.3%	73.4%	85.2%	74.6%
2 MBE/WBE Subcontractors				
MBE - CTL Testing	\$ 25,000	\$ 30,000	\$ 15,000	\$ 70,000
MBE - Dynotec	\$ 285,100	\$ 285,100	\$ -	\$ 570,200
2 Sub-Total - MBE/WBE	\$ 310,100	\$ 315,100	\$ 15,000	\$ 640,200
	22.1%	21.4%	7.4%	20.3%
3 Non MBE/WBE Subcontractors				
Microman (Computer Equipment)	\$ 21,310	\$ 16,145	\$ -	\$ 37,455
Snyder Engineering	\$ 7,500	\$ 20,000	\$ -	\$ 27,500
Ron Heuer	\$ 7,500	\$ 20,000	\$ 5,000	\$ 32,500
GTSA - Tim Scianamblo	\$ 15,000	\$ 20,000	\$ 10,000	\$ 45,000
3 Sub-Total - OTHER SUBS (non MBE/WBE)	\$ 51,310	\$ 76,145	\$ 15,000	\$ 142,455
	3.7%	5.2%	7.4%	4.6%
4 HRGA TOTAL CONTRACT	\$ 1,404,049	\$ 1,473,269	\$ 202,107	\$ 3,079,425
	100.0%	100.0%	100.0%	100.0%
Construction Cost	\$ 90,779,625	\$ 78,660,000	\$ 4,000,000	\$ 173,439,625
CM Services as Percent of Construction	1.55%	1.87%	5.05%	1.78%

Big Walnut Augmentation Rickenbacker Interceptor Sewer (Part 1), CIP 491.1

Big Walnut Outfall Augmentation Sewer (Part 2), CIP 430.1

Big Walnut Outfall Augmentation Sewer - AQCF (Part 2B), CIP 430.1

H. R. Gray Rate Schedule

	Annual Inflation Rate = 4%		104%	
	Year	2007	2008	Max Rate
1 Principal (PR) -		\$76.00	\$79.04	\$79.04
2 Project Coordinator/Sr. Const Mgr. (PC/SCM) -		\$65.00	\$67.60	\$67.60
3 Construction Manager (CM) -		\$59.50	\$61.88	\$61.88
4 Construction Scheduler (CS) -		\$40.00	\$41.60	\$41.60
5 Field Project Engineer (FPE)		\$40.00	\$41.60	\$41.60
6 Construction Inspector (CI) -		\$28.00	\$29.12	\$29.12
7 Administrative Assistant - Office (AAO) -		\$33.00	\$34.32	\$34.32
8 Administrative Assistant - Field (AAF) -		\$26.00	\$27.04	\$27.04
9 Engineering Intern / Coop (EI) -		\$16.00	\$16.64	\$16.64

EXHIBIT E
COST SUMMARY - HRG Construction Management "Office" Services for BWARI, Part 1

1. CITY: Department of Public Utilities		2. CIP: 491.1	3. VERSION: 9 Duration (mon):	BWARI 12
4. NAME OF CONSULTANT: H.R. Gray, Inc		5. PROJECT TITLE: BWARI - CM During Construction (12 months) - Part 1		
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Jan-07		Cost + Fixed Fee 31-Dec-07
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$79.04	180	\$14,227	
Sr. Construction Manager (SCM)	\$67.60	240	\$16,224	
Administrative Assistant - Office (AAO) -	\$34.32	40	\$1,373	
Direct Labor Total:			460	\$31,824
Direct Field Labor:				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$67.60	0	\$0	
Construction Manager (CM) -	\$61.88	0	\$0	
Field Project Engineer (FPE)	\$41.60	0	\$0	
Construction Inspector (CI) -	\$29.12	0	\$0	
Administrative Assistant - Field (AAF) -	\$27.04	0	\$0	
Engineering Intern / Coop (EI) -	\$16.64	0	\$0	
Direct Field Labor:			0	\$0
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$31,824	\$56,010	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$0	\$0	
INDIRECT COSTS SUBTOTAL:				\$56,010
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	1,500	\$0,445	\$668	
b. Equipment, Materials, Supplies				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$0	
Field Office Equipment & Supplies			\$0	
Utilities (Water)			\$0	
Courier Service (Dynamix - MBE)			\$0	
b. Subtotal:			\$0	
c. Subcontracts:				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$0	
Microman (Computer System Supply & Support)			\$0	
Dynotec - MBE (Tunnel Inspector - 1 ea - 12 months)	\$128.00	0	\$0	
KS Murchison - WBE (Clerical Support - 1 ea - 12 months)	\$55.00	0	\$0	
Synder Engineering, PE (TBM Consultant)			\$7,500	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$7,500	
GTSA (Scheduling Consultant)			\$15,000	
c. Subtotal:			\$30,000	
d. Other (specify categories):				
			Est. Cost	
d. Subtotal:			\$0	
SUBTOTAL #10 (a, b, c & d):				\$30,668
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				\$118,502
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$8,783
13. TOTAL PRICE				\$127,286
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				\$127,286
16. Construction Cost (@ Bid Opening) =	\$90,779,625	CM Percent of Construction =		0.14%

EXHIBIT E
COST SUMMARY - HRGA Construction Management "Field" Services for BWARI, Part 1

1. CITY: Department of Public Utilities		2. CIP: 491.1	3. VERSION: 9 Duration (mon): 12		BWARI
4. NAME OF CONSULTANT: H.R. Gray, Inc		5. PROJECT TITLE: BWARI - CM During Construction (12 months) - Part 1			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Jan-07		Cost + Fixed Fee 31-Dec-07	
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals	
	Max Rate				
Principal (PR) -	\$79.04	0	\$0		
Sr. Construction Manager (SCM)	\$67.60	0	\$0		
Administrative Assistant - Office (AAO) -	\$34.32	0	\$0		
Direct Labor Total:			0	\$0	
Direct Field Labor:					
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$67.60	1,200	\$81,120		
Construction Manager (CM) -	\$61.88	1,200	\$74,256		
Field Project Engineer (FPE) -	\$41.60	1,200	\$49,920		
Construction Inspector (CI) -	\$29.12	2,900	\$84,448		
Administrative Assistant - Field (AAF) -	\$27.04	1,100	\$29,744		
Engineering Intern / Coop (EI) -	\$16.64	1,100	\$18,304		
Direct Field Labor:			8,700	\$337,792	
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost		
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$0	\$0		
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$337,792	\$506,688		
INDIRECT COSTS SUBTOTAL:				\$506,688	
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost		
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	20,000	\$0.445	\$8,900		
b. Equipment, Materials, Supplies					
Lodging & Travel Exp - Out-of-Town			\$0		
Telephone Exp & Communications Equip			\$1,350		
Field Office Equipment & Supplies			\$5,800		
Utilities (Water)			\$375		
Courier Service (Dynamix - MBE)			\$0		
b. Subtotal:			\$7,525		
c. Subcontracts:					
	Rate	Hours	Est. Cost		
CTL Material Testing Laboratory - MBE (Material Testing)			\$25,000		
Microman (Computer System Supply & Support)			\$21,310		
Dynotec - MBE (Tunnel Inspector - 1 ea - 12 months)	\$128.00	2,200	\$281,600		
KS Murchison - WBE (Clerical Support)	\$55.00	0	\$0		
Synder Engineering, PE (TBM Consultant)			\$0		
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0		
GTSA (Scheduling Consultant)			\$0		
c. Subtotal:			\$327,910		
d. Other (specify categories):					
Tunnel Inspector for Dynotec - Reimb Expenses (MBE)			\$3,500		
d. Subtotal:			\$3,500		
SUBTOTAL #10 (a, b, c & d):				\$347,835	
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				\$1,192,315	
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$84,448	
13. TOTAL PRICE				\$1,276,763	
14. OTHER SERVICES, As Requested				\$0	
15. TOTAL CONTRACT MODIFICATION for CM Services				\$1,276,763	
16. Construction Cost (@ Bid Opening) =	\$90,779,625	CM Percent of Construction =		1.41%	

EXHIBIT E
COST SUMMARY - HRG Construction Management "Office" Services for BWOAS, Part 2

1. CITY: Department of Public Utilities		2. CIP: 430.1	3. VERSION: 9 Duration (mon): 12		BWOAS
4. NAME OF CONSULTANT: H.R. Gray, Inc		5. PROJECT TITLE: BWOAS - CM During Construction (12 months) - Part 2			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Jan-07		Cost + Fixed Fee 31-Dec-07	
8. DIRECT LABOR (specify labor categories):		HOUR RATE	EST. HOURS	EST. COST	Totals
		Max Rate			
Principal (PR) -		\$79.04	168	\$13,279	
Sr. Construction Manager - (SCM) -		\$67.60	240	\$16,224	
Administrative Assistant - Office (AAO) -		\$34.32	40	\$1,373	
Direct Labor Total:			448		\$30,876
Direct Field Labor:					
Project Coordinator/Sr. Const Mgr. (PC/SCM) -		\$67.60	0	\$0	
Construction Manager (CM) -		\$61.88	0	\$0	
Field Project Engineer (FPE) -		\$41.60	0	\$0	
Construction Inspector (CI) -		\$29.12	0	\$0	
Administrative Assistant - Field (AAF) -		\$27.04	0	\$0	
Engineering Intern / Coop (EI) -		\$16.64	0	\$0	
Direct Field Labor:			0		\$0
9. INDIRECT COSTS		Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor		1.76	\$30,876	\$54,341	
Payroll (0.95) + Admin (0.55) Field Labor		1.50	\$0	\$0	
INDIRECT COSTS SUBTOTAL:					\$54,341
10. OTHER DIRECT COSTS (ODC)		Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)		1,500	\$0.445	\$668	
b. Equipment, Materials, Supplies					
Lodging & Travel Exp - Out-of-Town				\$0	
Telephone Exp & Communications Equip				\$0	
Field Office Equipment & Supplies				\$0	
Utilities (Water)				\$0	
Courier Service (Dynamix - MBE)				\$0	
b. Subtotal:				\$0	
c. Subcontracts:		Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)					
Microman (Computer System Supply & Support)				\$0	
Dynotec - MBE (Tunnel Inspector - 1 ea - 12 months)		\$128.00	0	\$0	
KS Murchison - WBE (Clerical Support - 1 ea - 12 months)		\$55.00	0	\$0	
Synder Engineering, PE (TBM Consultant)				\$20,000	
Ronald Heuer, PE, PhD (Geotech Consultant)				\$20,000	
GTSA (Scheduling Consultant)				\$20,000	
c. Subtotal:				\$60,000	
d. Other (specify categories):				Est. Cost	
d. Subtotal:				\$0	
SUBTOTAL #10 (a, b, c & d):					\$60,668
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)					\$145,884
12. FIXED FEE (No markup on Other Direct Costs - ODC)			10%		\$8,522
13. TOTAL PRICE					\$154,406
14. OTHER SERVICES, As Requested					\$0
15. TOTAL CONTRACT MODIFICATION for CM Services					\$154,406
16. Construction Cost (@ Bid Opening) =		\$78,660,000	CM Percent of Construction =		0.20%

EXHIBIT E
COST SUMMARY - HRG Construction Management "Field" Services for BWOAS, Part 2

1. CITY: Department of Public Utilities		2. CIP: 430.1	3. VERSION: 9 Duration (mon): 12	
4. NAME OF CONSULTANT: H.R. Gray, Inc		5. PROJECT TITLE: BWOAS - CM During Construction (12 months) - Part 2		
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Jan-07 Cost + Fixed Fee 31-Dec-07		
8. DIRECT LABOR (specify labor categories):		HOUR RATE	EST. HOURS	EST. COST
		Max Rate		Totals
	Principal (PR) -	\$79.04	0	\$0
	Sr. Construction Manager (SCM) -	\$67.60	0	\$0
	Administrative Assistant - Office (AAO) -	\$34.32	0	\$0
Direct Labor Total:			0	\$0
Direct Field Labor:				
	Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$67.60	1,200	\$81,120
	Construction Manager (CM) -	\$61.88	1,200	\$74,256
	Field Project Engineer (FPE) -	\$41.60	1,200	\$49,920
	Construction Inspector (CI) -	\$29.12	3,400	\$99,008
	Administrative Assistant - Field (AAF) -	\$27.04	1,100	\$29,744
	Engineering Intern / Coop (EI) -	\$16.64	1,100	\$18,304
Direct Field Labor:			9,200	\$352,352
9. INDIRECT COSTS		Rate	x DL Total	Est. Cost
	Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$0	\$0
	Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$352,352	\$528,528
INDIRECT COSTS SUBTOTAL:				\$528,528
10. OTHER DIRECT COSTS (ODC)		Rate		Est. Cost
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)		30,000	\$0.445	\$13,350
b. Equipment, Materials, Supplies				
	Lodging & Travel Exp - Out-of-Town			\$0
	Telephone Exp & Communications Equip			\$1,500
	Field Office Equipment & Supplies			\$3,800
	Utilities (Water)			\$0
	Courier Service (Dynamix)			\$0
b. Subtotal:				\$5,300
c. Subcontracts:		Rate	Hours	Est. Cost
	CTL Material Testing Laboratory - MBE (Material Testing)			\$30,000
	Microman (Computer System Supply & Support)			\$16,145
	Dynotec - MBE (Tunnel Inspector - 1 ea - 12 months)	\$128.00	2,200	\$281,600
	KS Murchison - WBE (Clerical Support - 1 ea - 12 months)	\$55.00	0	\$0
	Synder Engineering, PE (TBM Consultant)			
	Ronald Heuer, PE, PhD (Geotech Consultant)			
	GTSA (Scheduling Consultant)			
c. Subtotal:				\$327,745
d. Other (specify categories):				Est. Cost
	Tunnel Inspector for Dynotec - Reimb Expenses (MBE)			\$3,500
d. Subtotal:				\$3,500
SUBTOTAL #10 (a, b, c & d):				\$349,895
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				\$1,230,775
12. FIXED FEE (No markup on Other Direct Costs - ODC)			10%	\$88,088
13. TOTAL PRICE				\$1,318,863
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				\$1,318,863
16. Construction Cost (@ Bid Opening) =		\$78,660,000	CM Percent of Construction =	1.68%

EXHIBIT E
COST SUMMARY - HRG Construction Management "Office" Services for BWOAS - AQCF, Part 2B

1. CITY: Department of Public Utilities		2. CIP: 430.1 AQCF	3. VERSION: 1 Duration (mon):	BWOAS 12
4. NAME OF CONSULTANT: H.R. Gray, Inc		5. PROJECT TITLE: BWOAS - CM During Construction (12 months) Air Quality Control Facility - Part 2B		
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Jan-07 Cost + Fixed Fee 31-Dec-07		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$79.04	36	\$2,845	
Sr. Construction Manager - (SCM) -	\$67.60	72	\$4,867	
Administrative Assistant - Office (AAO) -	\$34.32	16	\$549	
Direct Labor Total:			124	\$8,262
Direct Field Labor:				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$67.60	0	\$0	
Construction Manager (CM) -	\$61.88	0	\$0	
Field Project Engineer (FPE) -	\$41.60	0	\$0	
Construction Inspector (CI) -	\$29.12	0	\$0	
Administrative Assistant - Field (AAF) -	\$27.04	0	\$0	
Engineering Intern / Coop (EI) -	\$16.64	0	\$0	
Direct Field Labor:			0	\$0
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$8,262	\$14,541	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$0	\$0	
INDIRECT COSTS SUBTOTAL:				\$14,541
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	1,000	\$0.445	\$445	
b. Equipment, Materials, Supplies				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$0	
Field Office Equipment & Supplies			\$0	
Utilities (Water)			\$0	
Courier Service (Dynamix - MBE)			\$0	
b. Subtotal:			\$0	
c. Subcontracts:				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)				
Microman (Computer System Supply & Support)			\$0	
Dynotec - MBE (Tunnel Inspector - 1 ea - 12 months)	\$128.00	0	\$0	
KS Murchison - WBE (Clerical Support - 1 ea - 12 months)	\$55.00	0	\$0	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$5,000	
GTSA (Scheduling Consultant)			\$10,000	
c. Subtotal:			\$15,000	
d. Other (specify categories):				
			Est. Cost	
d. Subtotal:			\$0	
SUBTOTAL #10 (a, b, c & d):				\$15,445
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				\$38,247
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$2,280
13. TOTAL PRICE				\$40,528
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				\$40,528
16. Construction Cost (@ Bid Opening) =	\$4,000,000	CM Percent of Construction =		1.01%

EXHIBIT E
COST SUMMARY - HRG Construction Management "Field" Services for BWOAS - AQCF, Part 2B

1. CITY: Department of Public Utilities		2. CIP: 430.1 AQCF	3. VERSION: 1 Duration (mon):	BWOAS 12
4. NAME OF CONSULTANT: H.R. Gray, Inc		5. PROJECT TITLE: BWOAS - CM During Construction (12 Months) Air Quality Control Facility - Part 2B		
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Jan-07 Cost + Fixed Fee 31-Dec-07		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$79.04	0	\$0	
Sr. Construction Manager (SCM) -	\$67.60	0	\$0	
Administrative Assistant - Office (AAO) -	\$34.32	0	\$0	
Direct Labor Total:			0	\$0
Direct Field Labor:				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$67.60	160	\$10,816	
Construction Manager (CM) -	\$61.88	160	\$9,901	
Field Project Engineer (FPE) -	\$41.60	240	\$9,984	
Construction Inspector (CI) -	\$29.12	525	\$15,288	
Administrative Assistant - Field (AAF) -	\$27.04	200	\$5,408	
Engineering Intern / Coop (EI) -	\$16.64	0	\$0	
Direct Field Labor:			1,285	\$51,397
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$0	\$0	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$51,397	\$77,095	
INDIRECT COSTS SUBTOTAL:				\$77,095
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	3,500	\$0.445	\$1,558	
b. Equipment, Materials, Supplies				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$900	
Field Office Equipment & Supplies			\$2,780	
Utilities (Water)			\$0	
Courier Service (Dynamix)			\$0	
b. Subtotal:			\$3,680	
c. Subcontracts:				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$15,000	
Microman (Computer System Supply & Support)			\$0	
Dynotec - MBE (Tunnel Inspector - 1 ea - 12 months)	\$128.00	0	\$0	
KS Murchison - WBE (Clerical Support - 1 ea - 12 months)	\$55.00	0	\$0	
Synder Engineering, PE (TBM Consultant)				
Ronald Heuer, PE, PhD (Geotech Consultant)				
GTSA (Scheduling Consultant)				
c. Subtotal:			\$15,000	
d. Other (specify categories):				
Tunnel Inspector for Dynotec - Reimb Expenses (MBE)			\$0	
d. Subtotal:			\$0	
SUBTOTAL #10 (a, b, c & d):				\$20,238
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				\$148,730
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$12,849
13. TOTAL PRICE				\$161,579
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				\$161,579
16. Construction Cost (@ Bid Opening) =	\$4,000,000	CM Percent of Construction =		4.04%

Lachel & Associates

Exhibit D: BWARI Part 1 - Construction Management

PROJECT TITLE:

Big Walnut Augmentation/Rickenbacker Interceptor

CIP NO.: 491

Part 1 Construction Management Services (Office) - January 1, 2007 to December 31, 2007

FIRM: LACHEL FELICE & Associates, Inc.

Task No.	ACTIVITY	P	MAN HOURS											TOTAL			
			PM	CGE	SGE	SE	CA	SCE	CL	STE	ET/D	G					
2.1	General																0
2.2	Design Report																0
2.3	Field Survey																0
2.4	Geotechnical/Geophysical Work																0
2.5	Drawings (includes Design)																0
2.5.8	Detailed Design Summary Report																0
2.5.9	Specifications																0
2.5.11	Constructability Review																0
2.6	Easements																0
2.7	Supplemental																0
2.8	Bid Documents																0
2.9	OEPA Permit To Install (PTI)																0
2.10	Other Permits, Plans, and Evaluations	5	15	20		10	20	50									135
2.11	Engineering During Const/Shop Dwgs		15	40	100	20	20	20	15								230
2.11	Construction Management Services																0
2.11	Resident Project Representation Svr																0
	Total Hours	5	30	60	100	30	20	70	30	20	20	30	0	0	0	0	365

Principal (P) \$80.00 per hour
 Project Manager (PM) \$75.00 per hour
 Chief Geotechnical Engineer (CGE) \$75.00 per hour
 Senior Geotechnical Engineer (SGE) - Office \$55.00 per hour
 Structural Engineer (SE) \$44.00 per hour
 Construction Advisor (CA) \$80.00 per hour
 Senior Construction Engineer (SCE) \$60.00 per hour
 Clerical (CL) \$35.00 per hour
 Engineering Technician/Draftsman (ET/D) \$35.00 per hour
 Staff Engineer (STE) - Office \$25.00 per hour
 Geotechnical Eng./Eng. Geologist (G) \$32.00 per hour
 Senior Geotechnical Engineer (SGE) - Field \$55.00 per hour

**APPENDIX
EXHIBIT E: COST SUMMARY**

Part 1 Construction Management Services (Office) - January 1, 2007 to December 31, 2007

1. CITY: Department of Public Utilities		2. CIP: 491	3. VERSION:	
4. NAME OF CONSULTANT: LACHEL FELICE & Associates, Inc.		5. PROJECT TITLE: Big Walnut/Rickenbacker Sanitary Interceptor		
6. ADDRESS: 1667 Cole Blvd., Suite 220 Golden, CO 80401		7. TYPE OF CONTRACT Cost Plus Fixed Fee		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (P)	\$80.00	5	\$400	
Project Manager (PM)	\$75.00	30	\$2,250	
Chief Geotechnical Engineer (CGE)	\$75.00	60	\$4,500	
Senior Geotechnical Engineer (SGE) - Office	\$55.00	100	\$5,500	
Structural Engineer (SE)	\$44.00	30	\$1,320	
Construction Advisor (CA)	\$80.00	20	\$1,600	
Senior Construction Engineer (SCE)	\$60.00	70	\$4,200	
Clerical (CL)	\$35.00	20	\$700	
Staff Engineer (STE) - Office	\$35.00	30	\$1,050	
Engineering Technician/Draftsman (ET/D)	\$25.00	0	\$0	
Geotechnical Eng./Eng. Geologist (G)	\$32.00	0	\$0	
Senior Geotechnical Engineer (SGE) - Field	\$55.00	0	\$0	
DIRECT LABOR TOTAL - FIELD:		0	\$0	\$0
DIRECT LABOR TOTAL - OFFICE:		365	\$21,520	\$21,520
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll/Administrative - Office	1.47	\$21,520	\$31,634	
Payroll/Administrative - Field	1.45	\$0	\$0	
INDIRECT COSTS TOTAL:			\$31,634	\$31,634
10. OTHER DIRECT COSTS (ODC)	Qty.	Rate	Est. Cost	
a. Local Travel (Miles X Rate per Mile)	2,000	\$0.445	\$890	
b. Other Travel		Unit Cost	Est. Cost	
Air Fare		\$600.00	\$2,400	
Rental Car		\$33.00	\$396	
Lodging		\$60.00	\$7,200	
Meals		\$43.00	\$1,290	
Parking, Cab Fare, Miscellaneous		\$15.00	\$180	
Subtotal:			\$11,466	
c. Subcontracts			Est. Cost	
Subcontracts Subtotal:			\$0	
d. Other (specify categories)			Est. Cost	
Other Subtotal:			\$0	
e. OTHER DIRECT COSTS TOTAL:				\$12,356
11. TOTAL COST				\$65,510
12. FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$5,315
13. TOTAL PRICE				\$70,825
14. CONTINGENCY SERVICES @ 12% (Section 3.6)		Not included, as instructed		\$0
15. MAX REIMBURSEMENT FOR PTI				\$0
16. CONTRACT TOTAL				\$70,825

Exhibit D: BWARI Part 1 - Construction Inspection Services

PROJECT TITLE:

Big Walnut Augmentation/Rickenbacker Interceptor
 Part 1 Construction Management Services (Office) - January 1, 2007 to December 31, 2007

CIP NO.: 491

FIRM: LACHEL FELICE & Associates, Inc.

Task No.	ACTIVITY	P	MAN HOURS											TOTAL	
			PM	CGE	SGE	SE	CA	SCE	CL	STE	ET/D	G			
2.1	General														0
2.2	Design Report														0
2.3	Field Survey														0
2.4	Geotechnical/Geophysical Work														0
2.5	Drawings (includes Design)														0
2.5.8	Detailed Design Summary Report														0
2.5.9	Specifications														0
2.5.11	Constructability Review														0
2.6	Easements														0
2.7	Supplemental														0
2.8	Bid Documents														0
2.9	OEPA Permit To Install (PTI)														0
2.10	Other Permits, Plans, and Evaluations														0
2.11	Engineering During Const/Shop Dwg														0
2.11	Construction Management Services														0
2.11	Resident Project Representation Svr				250										625
	Total Hours	0	0	0	250	0	0	0	0	0	0	0	0	300	75
															625

- Principal (P) \$80.00 per hour
- Project Manager (PM) \$75.00 per hour
- Chief Geotechnical Engineer (CGE) \$75.00 per hour
- Senior Geotechnical Engineer (SGE) - Office \$55.00 per hour
- Structural Engineer (SE) \$44.00 per hour
- Construction Advisor (CA) \$80.00 per hour
- Senior Construction Engineer (SCE) \$60.00 per hour
- Clerical (CL) \$35.00 per hour
- Engineering Technician/Draftsman (ET/D) \$35.00 per hour
- Staff Engineer (STE) - Office \$25.00 per hour
- Geotechnical Eng./Eng. Geologist (G) \$32.00 per hour
- Senior Geotechnical Engineer (SGE) - Field \$55.00 per hour

**APPENDIX
EXHIBIT E: COST SUMMARY**

Part 1 Construction Inspection Services (Field) - January 1, 2007 to December 31, 2007

1. CITY:	Department of Public Utilities	2. CIP:	491	3. VERSION:	
4. NAME OF CONSULTANT:	LACHEL FELICE & Associates, Inc.	5. PROJECT TITLE: Big Walnut/Rickenbacker Sanitary Interceptor			
6. ADDRESS:	1667 Cole Blvd., Suite 220 Golden, CO 80401	7. TYPE OF CONTRACT Cost Plus Fixed Fee			
8. DIRECT LABOR (specify labor categories):		HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (P)		\$80.00	0	\$0	
Project Manager (PM)		\$75.00	0	\$0	
Chief Geotechnical Engineer (CGE)		\$75.00	0	\$0	
Senior Geotechnical Engineer (SGE) - Office		\$55.00	0	\$0	
Structural Engineer (SE)		\$44.00	0	\$0	
Construction Advisor (CA)		\$80.00	0	\$0	
Senior Construction Engineer (SCE)		\$60.00	0	\$0	
Clerical (CL)		\$35.00	0	\$0	
Staff Engineer (STE) - Office		\$35.00	0	\$0	
Engineering Technician/Draftsman (ET/D)		\$25.00	300	\$7,500	
Geotechnical Eng./Eng. Geologist (G)		\$32.00	75	\$2,400	
Senior Geotechnical Engineer (SGE) - Field		\$55.00	250	\$13,750	
DIRECT LABOR TOTAL - FIELD:			625	\$23,650	\$23,650
DIRECT LABOR TOTAL - OFFICE:			0	\$0	\$0
9. INDIRECT COSTS		Rate	x DL Total	Est. Cost	
Payroll/Administrative - Office		1.47	\$0	\$0	
Payroll/Administrative - Field		1.45	\$23,650	\$34,293	
INDIRECT COSTS TOTAL:				\$34,293	\$34,293
10. OTHER DIRECT COSTS (ODC)		Qty.	Rate	Est. Cost	
a. Local Travel (Miles X Rate per Mile)			\$0.395	\$0	
b. Other Travel			Unit Cost	Est. Cost	
Air Fare					
Rental Car					
Lodging					
Meals					
Parking, Cab Fare, Miscellaneous					
Subtotal:				\$0	
c. Subcontracts				Est. Cost	
Subcontracts Subtotal:				\$0	
d. Other (specify categories)				Est. Cost	
Other Subtotal:				\$0	
e. OTHER DIRECT COSTS TOTAL:					\$0
11. TOTAL COST					\$57,943
12. FIXED FEE (including profit)	PERCENT AMOUNT:		10%		\$5,794
13. TOTAL PRICE					\$63,737
14. CONTINGENCY SERVICES @ 12% (Section 3.6)			Not included, as instructed		\$0
15. MAX REIMBURSEMENT FOR PTI					\$0
16. CONTRACT TOTAL					\$63,737

Exhibit D: BWOAS (Part 2) - Construction Management

PROJECT TITLE:

Part 1 Construction Management Services (Office) - January 1, 2007 to December 31, 2007
 Big Walnut Outfall Augmentation Sewer
FIRM: LACHEL FELICE & Associates, Inc.

CIP NO.: 430.1

Task No.	ACTIVITY	P	MAN HOURS										TOTAL			
			PM	CGE	SGE	SE	CA	SCE	CL	STE	ET/D	G				
2.1	General															0
2.2	Design Report															0
2.3	Field Survey															0
2.4	Geotechnical/Geophysical Work															0
2.5	Drawings (includes Design)															0
2.5.8	Detailed Design Summary Report															0
2.5.9	Specifications															0
2.5.11	Constructability Review															0
2.6	Easements															0
2.7	Supplemental															0
2.8	Bid Documents															0
2.9	OEPA Permit To Install (PTI)															0
2.10	Other Permits, Plans, and Evaluations	15	30	40	20	20	70	30								225
2.11	Engineering During Const/Shop Dwgs		30	80	300	75	30	20	30							565
2.11	Construction Management Services															0
2.11	Resident Project Representation Svr															0
	Total Hours	15	60	120	300	95	20	100	60	20	0	0	0	0	0	790

Principal (P) \$80.00 per hour
 Project Manager (PM) \$75.00 per hour
 Chief Geotechnical Engineer (CGE) \$75.00 per hour
 Senior Geotechnical Engineer (SGE) - Office \$55.00 per hour
 Structural Engineer (SE) \$44.00 per hour
 Construction Advisor (CA) \$80.00 per hour
 Senior Construction Engineer (SCE) \$60.00 per hour
 Clerical (CL) \$35.00 per hour
 Engineering Technician/Draftsman (ET/D) \$35.00 per hour
 Staff Engineer (STE) - Office \$25.00 per hour
 Geotechnical Eng./Eng. Geologist (G) \$32.00 per hour
 Senior Geotechnical Engineer (SGE) - Field \$55.00 per hour

**APPENDIX
EXHIBIT E: COST SUMMARY**

Part 2 Construction Management Services (Office) - January 1, 2007 to December 31, 2007

1. CITY: Department of Public Utilities		2. CIP: 430.1	3. VERSION:	
4. NAME OF CONSULTANT: LACHEL FELICE & Associates, Inc.		5. PROJECT TITLE: Big Walnut/Rickenbacker Sanitary Interceptor		
6. ADDRESS: 1667 Cole Blvd., Suite 220 Golden, CO 80401		7. TYPE OF CONTRACT Cost Plus Fixed Fee		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (P)	\$80.00	15	\$1,200	
Project Manager (PM)	\$75.00	60	\$4,500	
Chief Geotechnical Engineer (CGE)	\$75.00	120	\$9,000	
Senior Geotechnical Engineer (SGE) - Office	\$55.00	300	\$16,500	
Structural Engineer (SE)	\$44.00	95	\$4,180	
Construction Advisor (CA)	\$80.00	20	\$1,600	
Senior Construction Engineer (SCE)	\$60.00	100	\$6,000	
Clerical (CL)	\$35.00	20	\$700	
Staff Engineer (STE) - Office	\$35.00	60	\$2,100	
Engineering Technician/Draftsman (ET/D)	\$25.00	0	\$0	
Geotechnical Eng./Eng. Geologist (G)	\$32.00	0	\$0	
Senior Geotechnical Engineer (SGE) - Field	\$55.00	0	\$0	
DIRECT LABOR TOTAL - FIELD:		0	\$0	\$0
DIRECT LABOR TOTAL - OFFICE:		790	\$45,780	\$45,780
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll/Administrative - Office	1.47	\$45,780	\$67,297	
Payroll/Administrative - Field	1.45	\$0	\$0	
INDIRECT COSTS TOTAL:			\$67,297	\$67,297
10. OTHER DIRECT COSTS (ODC)	Qty.	Rate	Est. Cost	
a. Local Travel (Miles X Rate per Mile)	2,000	\$0.445	\$890	
b. Other Travel		Unit Cost	Est. Cost	
Air Fare		\$600.00	\$5,400	
Rental Car		\$33.00	\$891	
Lodging		\$60.00	\$1,620	
Meals		\$43.00	\$1,161	
Parking, Cab Fare, Miscellaneous		\$15.00	\$405	
Subtotal:			\$9,477	
c. Subcontracts			Est. Cost	
Subcontracts Subtotal:			\$0	
d. Other (specify categories)			Est. Cost	
Other Subtotal:			\$0	
e. OTHER DIRECT COSTS TOTAL:				\$10,367
11. TOTAL COST				\$123,444
12. FIXED FEE (including profit)	PERCENT AMOUNT:	10%		
13. TOTAL PRICE				\$111,308
14. CONTINGENCY SERVICES @ 12% (Section 3.6)	Not included, as instructed			\$0
15. MAX REIMBURSEMENT FOR PTI				\$0
16. CONTRACT TOTAL				\$134,752

Exhibit D: BWOAS (Part 2) - Construction Inspection Services

PROJECT TITLE:

Part 1 Construction Management Services (Office) - January 1, 2007 to December 31, 2007
 Big Walnut Outfall Augmentation Sewer

CIP NO.: 430.1

FIRM: LACHEL FELICE & Associates, Inc.

Task No.	ACTIVITY	P	PM	CGE	SGE	SE	CA	SCE	CL	STE	ET/D	G	TOTAL
2.1	General												0
2.2	Design Report												0
2.3	Field Survey												0
2.4	Geotechnical/Geophysical Work												0
2.5	Drawings (includes Design)												0
2.5.8	Detailed Design Summary Report												0
2.5.9	Specifications												0
2.5.11	Constructability Review												0
2.6	Easements												0
2.7	Supplemental												0
2.8	Big Documents												0
2.9	OEPA Permit To Install (PTI)												0
2.10	Other Permits, Plans, and Evaluations												0
2.11	Engineering During Const/Shop Dwgs												0
2.11	Construction Management Services												0
2.11	Resident Project Representation Svr				650							650	1400
	Total Hours		0	0	0	650	0	0	0	0	0	650	1400

Principal (P) \$80.00 per hour
 Project Manager (PM) \$75.00 per hour
 Chief Geotechnical Engineer (CGE) \$75.00 per hour
 Senior Geotechnical Engineer (SGE) - Office \$55.00 per hour
 Structural Engineer (SE) \$44.00 per hour
 Construction Advisor (CA) \$80.00 per hour
 Senior Construction Engineer (SCE) \$60.00 per hour
 Clerical (CL) \$35.00 per hour
 Engineering Technician/Draftsman (ET/D) \$35.00 per hour
 Staff Engineer (STE) - Office \$25.00 per hour
 Geotechnical Eng./Eng. Geologist (G) \$32.00 per hour
 Senior Geotechnical Engineer (SGE) - Field \$55.00 per hour

**APPENDIX
EXHIBIT E: COST SUMMARY**

Part 2 Construction Inspection Services (Field) - January 1, 2007 to December 31, 2007

1. CITY: Department of Public Utilities		2. CIP: 430.1	3. VERSION:	
4. NAME OF CONSULTANT: LACHEL FELICE & Associates, Inc.		5. PROJECT TITLE: Big Walnut/Rickenbacker Sanitary Interceptor		
6. ADDRESS: 1667 Cole Blvd., Suite 220 Golden, CO 80401		7. TYPE OF CONTRACT Cost Plus Fixed Fee		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (P)	\$80.00	0	\$0	
Project Manager (PM)	\$75.00	0	\$0	
Chief Geotechnical Engineer (CGE)	\$75.00	0	\$0	
Senior Geotechnical Engineer (SGE) - Office	\$55.00	0	\$0	
Structural Engineer (SE)	\$44.00	0	\$0	
Construction Advisor (CA)	\$80.00	0	\$0	
Senior Construction Engineer (SCE)	\$60.00	0	\$0	
Clerical (CL)	\$35.00	0	\$0	
Staff Engineer (STE) - Office	\$35.00	0	\$0	
Engineering Technician/Draftsman (ET/D)	\$25.00	650	\$16,250	
Geotechnical Eng./Eng. Geologist (G)	\$32.00	100	\$3,200	
Senior Geotechnical Engineer (SGE) - Field	\$55.00	650	\$35,750	
DIRECT LABOR TOTAL - FIELD:		1400	\$55,200	\$55,200
DIRECT LABOR TOTAL - OFFICE:		0	\$0	\$0
9. INDIRECT COSTS	Rate	x DL Total		
Payroll/Administrative - Office	1.47	\$0	\$0	
Payroll/Administrative - Field	1.45	\$55,200	\$80,040	
INDIRECT COSTS TOTAL:			\$80,040	\$80,040
10. OTHER DIRECT COSTS (ODC)	Qty.	Rate	Est. Cost	
a. Local Travel (Miles X Rate per Mile)		\$0.395	\$0	
b. Other Travel		Unit Cost	Est. Cost	
Air Fare				
Rental Car				
Lodging				
Meals				
Parking, Cab Fare, Miscellaneous				
Subtotal:			\$0	
c. Subcontracts			Est. Cost	
Subcontracts Subtotal:			\$0	
d. Other (specify categories)			Est. Cost	
Other Subtotal:			\$0	
e. OTHER DIRECT COSTS TOTAL:				\$0
11. TOTAL COST				\$135,240
12. FIXED FEE (including profit)	PERCENT AMOUNT:	10%		\$13,524
13. TOTAL PRICE				\$148,764
14. CONTINGENCY SERVICES @ 12% (Section 3.6)		Not included, as instructed		\$0
15. MAX REIMBURSEMENT FOR PTI				\$0
16. CONTRACT TOTAL				\$148,764