



Bid Data

on Current Municipal Public Works

August 1997

Streets and Drainage



Water Works



Wastewater



Gas



Sanitary Landfills

ARCHIVES

Public Works - Contracts

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Bid Data

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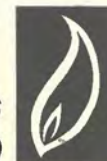
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Public Works -- Contracts

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Bid Data

Introduction

This publication is made possible by the contributions of information from consulting engineers, public works officials, purchasing officers, and others. It's intended as a reference for city officials, public works engineers, purchasing agents, consulting engineers, and architects who need cost information on Tennessee public works construction projects. This information is taken from current bid tabulations furnished by city engineers and consulting engineers for projects bid and awarded within the past 36 months.

Bid Data on Current Municipal Public Works furnishes unit prices, quantities of work, and a basic description of the kinds of work performed. The source of the information is noted in the heading, along with the name of the low-bidding contractor. This year's publication gives unit prices received in 1994, 1995, and 1996.

Every effort is made to duplicate the information furnished on the bid tabulations. All items listed are considered furnished and installed by the contractor. Alternate bid items are frequently lower than the base bid; however, the low bid is assumed to be the base bid unless otherwise noted. It wasn't always possible, based on the information received, to determine who was awarded the contract.

The information is presented in five categories: streets and drainage, water works, wastewater, gas, and sanitary landfills. Projects with more than one major division of work usually fall under the subject area representing the largest dollar value. Projects related to community development, urban renewal, and industrial parks typically contain several categories of work and the data is included under the division with the highest dollar value of work.

This publication should be used only as a guide. Allowances for variations in geographic location, quality, quantity, and other factors must be taken into consideration.

Ed Archer
MTAS Public Works and
Engineering Consultant

Acknowledgment: Special thanks to Brenda Moss, Institute for Public Service Administrative Secretary, for her diligence in the preparation of this publication.



Streets & Drainage



STREETS & DRAINAGE

Chattanooga -- DRAINAGE AND QUALITY ABATEMENT -- Date Received: 11/14/96 -- Source: Chattanooga Department of Public Works
Low Bidder: Mayse Construction Co.

Quantity	Unit	Description	Low	Second	Third
100	CY	Common Excavation (removal and disposal)	\$10.00	\$10.00	\$27.50
25	CY	Rock Excavation (removal and disposal)	100	200	110
50	CY	Trench Rock Excavation (removal and disposal)	100	\$125.00	\$.165.00
50	CY	Borrow Excavation	10.5	12	20
200	CY	Topsoil	15	22	38.5
25	CY	Special Mix (dry mix) 1/3 topsoil-1/3 river sand and 1/3 sphagnum moss	70	35	60
		Concrete			
20	CY	Concrete, Class A (complete in place)	400	400	500
20	CY	Concrete, Class B (complete in place)	275	125	400
100	SY	Concrete Paved Ditch, 4" thick with 6 x 6 x 12/12 W.M (complete in place)	35	33	33
500	LBS	Reinforcing Steel Bars	1.75	1.8	2
		PVC Sanitary Sewer and Service Lines (complete in place, including trench excavation, bedding, and stone backfill to top of trench)			
		6" PVC Pipe			
100	LF	0-6'-0" deep	30	19	15
50	LF	6'-1" to 12'-0" deep	35	28	20

Quantity	Unit	Description	Low	Second	Third
		8" PVC pipe			
50	LF	0-6'-0" deep	31	22	25
50	LF	6'-1" to 12'-0" deep	36	30	30
40		PVC Perforated Pipe (complete in place, including 3/4" clean washed stone backfill and bedding, filter fabric, fittings, and cleanout)	165	80	150
100	LF	6" PVC Perforated Pipe	35	34	10
100	LF	8" PVC Perforated Pipe	36	36	12
10		Manholes (complete in place, including frame and cover)	4345	2000	3600
10	EA	4'-0" diameter 6'-0" dp.	1500	1520	1375
5	VF	4'-0" diameter excess depth	90	115	100
10	EA	5'-0" diameter 6'-0" depth	1700	2100	1650
5	VF	5'-0" diameter excess depth	150	145	135
2	EA	6'-0" diameter 6'-0" depth	1800	2200	3000
5	VF	6'-0" diameter excess depth	150	210	200
		Mineral Aggregate			
100	TONS	33-P Bedding and Backfill	12.5	12.9	17
100	TONS	3/4" Washed Crushed Stone Chips	10.5	12.9	14
100	TONS	1/4" Washed Crushed Stone Chips	10.5	12.9	14
50	TONS	Riprap, 6" to 12" (complete in place)	25	21	25

Quantity	Unit	Description	Low	Second	Third
250	SY	Rock/Mortar Ditch/Slopes, Class A concrete (complete in place including 0.4 Ton/S.Y. 6" to 12" riprap with 0.2 C.Y./S.Y.)	30	27	37
100		Concrete Pavement Removal	7.5	25	15
50	SY	0 to 6" thick	5	12	10
50	SY	6.1" to 12" thick	7.5	14	13
800		Concrete Driveways and Sidewalks	15	36	27
50	SY	4" Sidewalk (complete in place, including removal of existing sidewalk and stone base for new sidewalk)	32	33	45
100	SY	6" Driveways (complete in place, including removal of existing driveway and stone base for new driveway)	34	35	50
300		Concrete Curb and Gutter (including removal of existing curb and stone)	18	12	21
100	LF	Curb and Gutter, Type A	14	15	19
200	LF	Curb and Gutter, Type B	15	14.5	18.5
100	LF	Extruded Concrete Mountable Curb	5	5	5
3000	LF	Extruded Asphalt Curb	5	3.5	5
25		Trees and Stump (removal and disposal)	750	300	300
5	EA	Tree, 4" to 12" diameter	300	275	200
5	EA	Tree, 12.1" to 24" diameter	750	650	500
3	EA	Tree, 24.1 " to 36" diameter	900	875	1000
3	EA	Tree, 36.1" to 60" diameter	1500	1500	2000

Quantity	Unit	Description	Low	Second	Third
100	GAL	Prime Coat	0.75	1.5	3
100	GAL	Tack Coat	0.75	1.5	3
100	TONS	Asphalt Concrete Binder Course, Type C	75	60	80
100	TONS	Asphalt Concrete Binder Course, Type E	75	62	85
50	TONS	Asphalt Cold Mix	35	40	100
100		Bituminous Coated Corrugated Metal Pipe or pipe-arch equivalent of round pipe (complete in place, including trench excavation/bedding, backfill, and stone backfill to top of trench)	52.5	30	37.5
		Pipe, 12" diameter			
50	LF	0 to 6'0" deep	34.1	33	38
50	LF	6.1' to 8' deep	36.1	41	40
50	VF/LF	Excess depth over 8'-0"	6.25	5	5
100		Pipe, 15" diameter	55.2	34	41
50	LF	0 to 6.0' deep	35.5	36	41
50	LF	6.1' to 8' deep	37.5	43	45
50	VF/LF	Excess depth over 8'	6.75	5	5
100		Pipe, 18" diameter	55.2	34	41
50	LF	0 to 6.0' deep	39.91	38	43
50	LF	6.1' to 8' deep	41.91	44	46
50	VF/LF	Excess depth over 8'	7.5	5.5	5

Quantity	Unit	Description	Low	Second	Third
100		Pipe, 24" diameter	55.2	34	41
50	LF	0 to 6.0' deep	49.5	47	45
50	LF	6.1' to 8' deep	52.5	54	48
50	VF/LF	Excess depth over 8'	8.75	6	6
100		Pipe, 30" diameter	55.2	34	41
50	LF	0 to 6.0' deep	63.5	52	53
50	LF	6.1' to 8' deep	68.5	60	58
50	VF/LF	Excess depth over 8'	9.95	7	7
100		36" diameter pipe	55.2	34	41
50	LF	0 to 6.0' deep	71.2	57	65
50	LF	6.1' to 8' deep	76.2	63	69
50	VF/LF	Excess depth over 8'	12.2	7	7
100		Pipe, 42" diameter	55.2	34	41
50	LF	0 to 6.0' deep	80.5	78	71
50	LF	6.1' to 8' deep	85.5	87	75
50	VF/LF	Excess depth over 8'	14	9	7
100		Pipe, 48" diameter	55.2	34	41
50	LF	0 to 6.0' deep	95.5	94	80
50	LF	6.1' to 8' deep	105.5	100	86

Quantity	Unit	Description	Low	Second	Third
50	VF/LF	Excess depth over 8'	16	10	8
100		Pipe, 54" diameter	55.2	34	41
50	LF	0 to 6.0' deep	109.7	110	100
50	LF	6.1' to 8' deep	119.7	117	105
50	LF	Excess depth over 8'	18	12	10
2000		Concrete Pipe, Class III (complete in place, including trench excavation, bedding, backfill, and stone backfill to top of trench)	58	44	46.24
		Pipe, 12" diameter			
100	LF	0-6.0' deep	39.7	35	40
50	LF	6.1' to 8' deep	44.2	38	45
50	VF/LF	Excess depth over 8'	7.25	5	6
		Pipe, 15" diameter			
1000	LF	0-6.0' deep	41	42	42
500	LF	6.1' to 8' deep	49.5	57	46
100	VF/LF	Excess depth over 8'	6.35	5	6
		Pipe, 18" diameter			
300	LF	0-6.0' deep	43.25	45	47
100	LF	6.1' to 8' deep	52	59	52
50	VF/LF	Excess depth over 8'	7.5	6	6

Quantity	Unit	Description	Low	Second	Third
		Pipe, 24" diameter pipe			
500	LF	0-6.0' deep	51.5	51	56
150	LF	6.1' to 8' deep	61.9	57	61
50	VF/LF	Excess depth over 8'	9.7	6	9
		Pipe, 30" diameter			
150	LF	0-6.0' deep	66.25	62	78
100	LF	6.1' to 8' deep	78.4	67	82
50	VF/LF	Excess depth over 8'	10.5	18	10
		Pipe, 36" diameter			
750	LF	0-6.0' deep	79.5	77	87
150	LF	6.1' to 8' deep	88.5	85	95
50	VF/LF	Excess depth over 8'	12.2	19	12
		Pipe, 42" diameter			
800	LF	0-6.0' deep	92.5	94	102
100	LF	6.1' to 8' deep	101.5	99	110
50	VF/LF	Excess depth over 8'	12.45	18	13
		Pipe, 48" diameter			
100	LF	0-8.0' deep	112.5	122	125
50	LF	8.1' to 10' deep	122.5	137	132

Quantity	Unit	Description	Low	Second	Third
50	VF/LF	Excess depth over 10'	12.7	20	14
		Pipe, 54" diameter			
400	LF	0-8.0' deep	130.5	144	150
100	LF	8.1' to 10' deep	140.5	152	160
50	VF/LF	Excess depth over 10'	18	20	15
		Pipe, 60" diameter			
100	LF	0-8.0' deep	140.5	169	200
50	LF	8.1' to 10' deep	150.5	180	220
50	VF/LF	Excess depth over 10'	25	23	20
		Reinforced Concrete Elliptical Pipe (complete in place, including trench excavation, bedding, backfill and stone backfill to top of trench)			
		Elliptical Pipe, 14"x 23"			
50	LF	0 to 6.0' deep	55.5	54	47
50	LF	6.1' to 8' deep	60	60	52
50	VF/LF	Excess depth over 8'	9.25	19	6
		Elliptical Pipe, 19"x 30"			
50	LF	0 to 6.0' deep	60	65	56
50	LF	6.1' to 8' deep	65	73	61
50	VF/LF	Excess depth over 8'	9.5	19	9

Quantity	Unit	Description	Low	Second	Third
		Elliptical Pipe, 24"x 28"			
50	LF	0 to 6.0' deep	73	85	98
50	LF	6.1' to 8' deep	78	90	108
50	VF/LF	Excess depth over 8'	11.7	19	10
		Elliptical Pipe, 29"x 45"			
50	LF	0 to 6.0' deep	88	107	110
50	LF	6.1' to 8' deep	96	115	115
50	VF/LF	Excess depth over 8'	12.5	23	12
		Elliptical Pipe, 34"x 53"			
50	LF	0 to 6.0' deep	102	112	120
50	LF	6.1' to 8' deep	110	120	135
50	VF/LF	Excess depth over 8'	14.2	20	14
		Elliptical Pipe, 8"x 60"			
50	LF	0 to 8.0' deep	120	132	170
50	LF	8.1' to 10' deep	130	140	190
50	VF/LF	Excess depth over 10'	14.45	20	15
		Elliptical Pipe, 43"x 68"			
50	LF	0 to 8.0' deep	138	150	250
50	LF	8.1' to 10' deep	145	160	280

Quantity	Unit	Description	Low	Second	Third
50	VF/LF	Excess depth over 10'	20	22	20
		Elliptical Pipe, 48"x 76"			
50	LF	0 to 8.0' deep	153.5	185	280
50	LF	8.1' to 10' deep	163.5	197	295
50	VF/LF	Excess depth over 10'	27	24	30
1500		Precast Concrete Box Culvert (complete in place, including trench excavation, bedding, backfill, and stone backfill to top of trench)	2.5	1.85	2
130	LF	8' x 4' Precast Concrete Box, 10' to 12' deep	425	515	475
1200		Adjusting Manhole Frames and Covers, inlets and catch basins	25	25	20
15	EA	Adjusting Manhole Frames and Cover	270	300	200
10	EA	Adjusting Miscellaneous Drainage Structure	350	370	275
		Catch Basins and Inlets (complete in place, including excavation, backfill, frame, grate and back)			
		Standard 2'x4' Catch Basin			

25	LF	0 to 6' deep	1894.5	2100	1900
10	VF	Excess depth over 6'	100	70	100
		Flat Top Catch Basin, standard 2' x 4'			
5	EA	0' to 6' deep	1700	1800	2000
5	VF	Excess depth over 6'	100	65	100
2	EA	Junction Box, 12' x 12' (complete in place, including excavation, bedding, backfill 3/4", and stone to top of trench)	6850	8000	5000
		Floatable Skimming Baffle (fiberglass and/or galvanized steel to meet city standards, including anchor bolts, joint sealer, etc., and the installation of inlets and manholes).			
Quantity	Unit	Description	Low	Second	Third
10	EA	Floatable Skimming Baffle for pipes 12" to 18"	650	300	550
5	EA	Floatable Skimming Baffle for pipes 24" to 36"	730	530	650
2	EA	Floatable Skimming Baffle for pipes 42" to 54"	1000	900	1000
2000	SY	Seeding and Mulching	1	3.5	2
1000	SY	Sodding	8	7	6
		Standard Curb Inlet (complete in place, including excavation, backfill, manhole frame and cover, etc.)			
		Standard Curb Inlet, 4' diameter			
35	EA	0 to 6'-0" deep	1300	1700	1100
10	VF	Excess of 6'-0" deep	100	55	50
		Standard Curb Inlet, 5' diameter			

25	LF	0 to 6' deep	1894.5	2100	1900
10	VF	Excess depth over 6'	100	70	100
		Flat Top Catch Basin, standard 2' x 4'			
5	EA	0' to 6' deep	1700	1800	2000
5	VF	Excess depth over 6'	100	65	100
2	EA	Junction Box, 12' x 12' (complete in place, including excavation, bedding, backfill 3/4", and stone to top of trench)	6850	8000	5000
		Floatable Skimming Baffle (fiberglass and/or galvanized steel to meet city standards, including anchor bolts, joint sealer, etc., and the installation of inlets and manholes).			
Quantity	Unit	Description	Low	Second	Third
10	EA	0 to 6'-0" deep	1400	1800	1200
10	VF	Excess of 6'-0" deep	115	70	60
		Standard Curb Inlet, 6' diameter			
5	EA	0 to 6'-0" deep	1500	1900	1500
10	VF	Excess of 6'-0" deep	125	75	65
		Standard Curb Inlet, 7' diameter			
2	EA	0 to 6'-0" deep	1600	2100	1500
10	VF	Excess of 6'-0" deep	185	85	80
		Fence relocation			
300	LF	4' High Chain Link	2.5	3	5
100	LF	6' High Chain Link	3	4	6

25	LF	0 to 6' deep	1894.5	2100	1900
10	VF	Excess depth over 6'	100	70	100
		Flat Top Catch Basin, standard 2' x 4'			
5	EA	0' to 6' deep	1700	1800	2000
5	VF	Excess depth over 6'	100	65	100
2	EA	Junction Box, 12' x 12' (complete in place, including excavation, bedding, backfill 3/4", and stone to top of trench)	6850	8000	5000
		Floatable Skimming Baffle (fiberglass and/or galvanized steel to meet city standards, including anchor bolts, joint sealer, etc., and the installation of inlets and manholes).			
Quantity	Unit	Description	Low	Second	Third
100	LF	4' - 8' Board	7	5	12
100	LF	Wood Post and Rail	7	7.5	12
1000	SF	8" Thick Brick Headwall (complete in place, including excavation, concrete footing and backfill)	15.75	15	16
		Guardrail (complete in place)			
200	LF	Straight sections	30	15	20
4	EA	End Sections	400	445	1500
		Adjusting water service lines and moving existing water meters and boxes			
200	LF	Relay/repair water line services	15	27	20
20	EA	Reset Water Meter Boxes	75	90	100
		Slope Protection and Erosion Control			

25	LF	0 to 6' deep	1894.5	2100	1900
10	VF	Excess depth over 6'	100	70	100
		Flat Top Catch Basin, standard 2' x 4'			
5	EA	0' to 6' deep	1700	1800	2000
5	VF	Excess depth over 6'	100	65	100
2	EA	Junction Box, 12' x 12' (complete in place, including excavation, bedding, backfill 3/4", and stone to top of trench)	6850	8000	5000
		Floatable Skimming Baffle (fiberglass and/or galvanized steel to meet city standards, including anchor bolts, joint sealer, etc., and the installation of inlets and manholes).			
Quantity	Unit	Description	Low	Second	Third
1000	LF	Silt Fence (installation and removal)	2.5	4.7	3
250	EA	Straw Bales (installation and removal)			
200	TONS	Riprap Check Dams (installation and repair)	25	12	25
200	LF	Brush Barriers (installation and removal)	8	7	5
15	EA	Project Signs	100	120	100
		Total Bid	\$989,221.00	\$1,046,475.00	\$1,074,475.00

STREETS & DRAINAGE

Chattanooga -- NORTH TERRACE FLOOD CONTROL PROJECT -- Date Received: 5/09/96 -- Source: Chattanooga Department of Public Works -- Low Bidder: Mayse Construction Co.

Quantity	Unit	Descriptions	Low	Second	Third
29650	CY	Common Excavation (removal and disposal)	\$5.50	\$5.00	\$10.20
50	CY	Rock Excavation	50	55	20
100	CY	Trench Rock Excavation (removal and disposal)	75	100	20
100	CY	Borrow Excavation	10	100	8
100	CY	Topsoil	15	30	30
1070	CY	Special Mix (dry) - 1/3 topsoil, 1/3 river sand, 1/3 sphagnum moss	36	48	48
25	CY	Retaining Walls, Class A concrete (complete in place, including reinforcing steel bars, etc.)	475	510	475
450	CY	Retaining Walls, Class B concrete (complete in place, including reinforcing steel bars, etc.)	350	354	370
		PVC Sanitary Sewers and Service Lines (complete in place, to include trench excavation, bedding, and stone backfill to top of trench)			
185	LF	1" PVC (for electrical conduit)	2	25	6
		8" PVC Pipe			
150	LF	0-6' -0" deep	25	22.75	29
50	LF	6'-1" to 12'-0" deep	30	38.65	36

Quantity	Unit	Descriptions	Low	Second	Third
		12" PVC Pipe			
25	LF	0-6'-0" deep	30	26.5	32
25	LF	6'-1" to 12'-0" deep	35	42.8	45
		PVC Perforated Pipe, (complete in place, to include 3/4" clean washed stone backfill and bedding, filter fabric, fittings, and cleanout)			
960	LF	8" PVC Perforated Pipe	18.15	23	30
50	LF	10" PVC Perforated Pipe	19.5	28	35
		Manholes (complete in place, including frame and cover)			
6	EA	4' diameter, 0 to 8'-0" deep	900	1600	1400
2	EA	4' diameter, 8'-1" to 12'-0" deep	1200	1750	1700
2	EA	5' diameter, 0 to 12'-0" deep	1500	2000	2500
50	LF	Ductile Iron and Fittings (complete in place, to include reinforce concrete piers, etc.)	100	92.5	100
		Mineral Aggregate			
50	TONS	3/4" Clean Washed Stone	12.5	12	23
50	TONS	Riprap, 6" to 12" (complete in place)	25	30	18
60	TONS	3" Crushed Stone Construction Entrance (complete in place)	15	12	15
		Concrete (removal and disposal)			
50	SY	0 to 6" thick	5	10	15
50	SY	6.1" top 12" thick	7.5	20	20

Quantity	Unit	Descriptions	Low	Second	Third
		Concrete Driveways and Sidewalks (complete in place, to include the removal of stone base for new sidewalk)			
100	SY	4" Thick Concrete	25	33	38
100	SY	6" Thick Concrete	29	40	44
		Concrete Curb and Gutter (to include removal of existing curb and stone base for new curb)			
50	LF	Curb and Gutter, Type A	14	15	28
150	LF	Curb and Gutter, Type B	14	14	23
100	LF	Extruded Asphaltic Curb	4	4.2	8
1	LS	Tree and Stump (removal and disposal within the project limits)	20000	44000	80000
100	GAL	Tack Coat	1	2.7	2
300	TONS	Asphaltic Concrete Binder Course for trench paving, Type C	75	68	70
100	TONS	Asphaltic Concrete Binder Course for street paving, Type C	75	82.2	55
200	TONS	Asphaltic Concrete Surface Course for trench paving, Type E	75	80.94	80
100	TONS	Asphaltic Concrete Surface Course for street paving, Type E	75	86.1	60
50	TONS	Asphaltic Cold Mix	35	48	80
		Reinforced Concrete Pipe, Class III (complete in place, to include trench excavation, bedding, stone backfill and stone backfill to top of trench)			
		Pipe, 12" diameter			
40	LF	0 to 8' -0" deep	38.8	32	40

Quantity	Unit	Descriptions	Low	Second	Third
		Pipe, 15" diameter			
200	LF	0 to 8'-0" deep	42.65	51	45
100	LF	8'-1" to 12'-0" deep	48.85	74	55
		Pipe, 18" diameter			
80	LF	0 to 8'-0" deep	44.65	56	50
10	LF	8'-1" to 12'-0" deep	50.85	80	70
		Pipe, 24" diameter			
200	LF	0 to 8'-0" deep	58	66	60
65	LF	8'-1" to 12'-0" deep	66.4	87	90
		Pipe, 36" diameter			
200	LF	0 to 8'-0" deep	87.75	90	85
50	LF	8'-1" to 12'-0" deep	97	132	115
10	EA	Adjust Manhole Frames and Covers	275	300	300
5	EA	Adjust Miscellaneous Drainage Structures	275	300	300
3	EA	Catch Basins and Inlets (complete in place, including excavation, backfill, frame, grate, and back)	1500	1440	1900
2500	SY	Seeding and Mulching	1	0.25	1.5
1000	SY	Sodding	8	10	5
		Fence Relocation			

Quantity	Unit	Descriptions	Low	Second	Third
1200	LF	4' High Chain Link	2.5	3.75	7
300	LF	4.1' to 6' High Chain Link	3	5.3	9
250	LF	4' to 6' Board Fence	7	13.2	14
100	LF	Wood Post and Rail	7	5.82	15
100	LF	Guardrail (complete in place)	20	15	16
4	EA	End Sections	400	450	700
		Adjusting Water Services Lines (complete in place)			
50	LF	3/4" to 1-1/2" Service Lines	15	10	7
5	EA	Relocating Water Meter Boxes	75	175	110
		Slope Protection and Erosion Control (complete in place)			
800	LF	Silt Fence (installations and removal)	2.5	3	2
200	EA	Straw Bales (installation and removal)	4.5	6	8
50	TONS	Riprap Check Dams (installation and removal)	25	15	32
100	LF	Brush Barriers (installation and removal)	8	5	10
4	EA	Project Signs	100	500	350
2	EA	House Demolition and Disposal (to include all permits, dumping fees, etc.)	3000	3000	4000
		Total Bid	\$610,177.50	\$683,852.50	\$868,700.00

STREETS & DRAINAGE

Chattanooga -- BITUMINOUS PAVEMENT RESURFACING -- Date Received: 1/30/96--Source: Chattanooga Department of Public Works
Low Bidder: Vulcan Materials

Quantity	Unit	Description	Low	Second	Third
20800	GAL	Tack Coat	\$0.60	\$0.55	
17700	TONS	Recycled Asphaltic Pavement, binder, Type C	26.22	27.47	
31300	TONS	Recycled Surface, Course E	28.56	28.73	
280	EA	Resetting Manhole Frames and Covers with manhole risers	75	80	
200	EA	Resetting Manholes Frames and Covers with concrete/masonry	170	175	
10	EA	Adjusting Inlets and Catch Basins	200	175	
40	VI	Excess Manhole Adjustments	30	20	
		Total Bid	\$1,428,702.00	\$1,456,858.00	

STREETS & DRAINAGE

Chattanooga -- DRAINAGE AND QUALITY ABATEMENT -- Date Received: 5/09/96 -- Source: Chattanooga Department of Public Works
Low Bidder: Mayse Construction Co.

Quantity	Unit	Description	Low	Second	Third
100	CY	Common Excavation (removal and disposal)	10	18	22
25	CY	Rock Excavation (removal and disposal)	100	75	115
50	CY	Trench Rock Excavation (removal and disposal)	100	120	175
50	CY	Borrow Excavation	10.5	20	20
200	CY	Topsoil	15	25	30
25	CY	Special Mix (dry mix) 1/3 topsoil-1/3 river sandy and 1/3 sphagnum moss	70	45	60
10	CY	Concrete, Class A (complete in place)	425	400	450
200	SY	Paved Ditch, Class A concrete	31	27	35
25	CY	Concrete, Class B (complete in place)	100	200	240
500	LBS	Reinforcing Steel Bars	1.2	1	1.1
		Manholes (complete in place, including frame and cover)			
10	EA	4'-0" diameter 6'-0" depth	1000	1400	1500
10	VF	4'-0" diameter excess depth	90	125	100
5	EA	5'-0" diameter 6'-0" depth	1250	1520	1600
5	VF	5'-0" diameter excess depth	150	140	120
5	EA	6'-0" diameter 6'-0" depth	1500	2000	1800

Quantity	Unit	Description	Low	Second	Third
5	VF	6'-0" diameter excess depth	150	200	200
		Mineral Aggregate			
200	TONS	33-P Bedding/Backfill	12.5	17	15
100	TONS	3/4" Washed Crushed Stone Chips	10.5	14	15
100	TONS	1/4" Washed Crushed Stone Chips	10.5	14	15
100	TONS	Riprap 6" to 12" (complete in place)	25	27	30
500	SY	Rock/Mortar Ditch/Slopes, Class A concrete (complete in place, including 0.4 Ton/S.Y. 6" to 12" riprap with 0.2 C.Y./S.Y.)	25	32	30
		Concrete Pavement Removal			
50	SY	0 to 6" thick	5	20	8
50	SY	6.1" to 12" thick	7.5	35	10
		Concrete Driveways and Sidewalks			
100	SY	4" Sidewalk (complete in place to include removal of existing sidewalk and stone base for new sidewalk)	25	32	27
100	SY	6" Driveways (complete in place to include removal of existing driveway and stone base for new driveway)	29	36	30
		Concrete Curb and Gutter (to include removal of existing curb and stone)			
200	LF	Curb and Gutter, Type A	14	22	18
50	LF	Curb and Gutter, Type B	15	21.5	18
50	LF	Extruded Concrete Mountable Curb	4.5	12	6

Quantity	Unit	Description	Low	Second	Third
500	LF	Extruded Asphalt Curb	5	5	6
		Tree and Stump (removal and disposal)			
10	EA	Tree, 4" to 12" diameter	300	275	300
5	EA	Tree, 12.1" to 24" diameter	750	500	600
3	EA	Tree, 24.1" to 36" diameter	900	800	1000
3	EA	Tree, 36.1" to 60" diameter	1500	1500	1800
100	GAL	Prime Coat	0.75	2	2.5
100	GAL	Tack Coat	0.75	2	2.5
100	TONS	Asphaltic Concrete Binder Course ,Type C	75	60	85
100	TONS	Asphaltic Concrete Binder Course, Type E	75	65	85
100	TONS	Asphaltic Cold Mix	35	90	50
		Bituminous Coated Corrugated Metal Pipe or pipe-arch equivalent of round pipe (complete in place, to include trench excavation/bedding, backfill, and stone backfill to top of trench)			
		Pipe, 12" diameter			
50	LF	0 to 6.0' deep	38.6	35	37
50	LF	6.1' to 8' deep	40.6	45	44
50	VF/LF	Excess depth over 8'	6.25	7	10
		Pipe, 15" diameter			
50	LF	0 to 6.0' deep	40	42	42

Quantity	Unit	Description	Low	Second	Third
50	LF	6.1' to 8' deep	42	52	47
50	VF/LF	Excess depth over 8'	6.75	8	10
		Pipe, 18" diameter			
50	LF	0 to 6.0' deep	44.41	46	44
30	LF	6.1' to 8' deep	46.41	55	50
30	VF/LF	Excess depth over 8'	7.5	8	10
		Pipe, 24" diameter			
50	LF	0 to 6.0' deep	54	56	54
50	LF	6.1' to 8' deep	57	72	60
50	VF/LF	Excess depth over 8'	8.75	10	13
		Pipe, 30" diameter			
50	LF	0 to 6.0' deep	68	75	71
50	LF	6.1" to 8' deep	73	90	75
50	VF/LF	Excess depth over 8'	9.95	15	13
		Pipe, 36" diameter			
50	LF	0 to 6.0' deep	75.7	84	75
75	LF	6.1" to 8' deep	80.7	110	82
75	VF/LF	Excess depth over 8'	12.2	16	13
		Pipe, 42" diameter			

Quantity	Unit	Description	Low	Second	Third
50	LF	0 to 6.0' deep	85	100	87
50	LF	6.1" to 8' deep	90	120	92
50	VF/LF	Excess depth over 8'	14	21	16
		Pipe, 48" diameter			
50	LF	0 to 8.0' deep	100	130	99
100	VF/LF	Excess depth over 8'	16	30	19
		Pipe, 54" diameter			
50	LF	0 to 8.0' deep	114.2	150	134
25	VF/LF	Excess depth over 8'	18	35	21
		Concrete Pipe, Class III (complete in place, to include trench excavation, bedding, backfill, and stone backfill to top of trench)			
		Pipe, 12" diameter			
100	LF	0 to 6' deep	44.3	38	43
50	LF	6.1' to 8' deep	48.7	46	47
50	VF/LF	Excess depth over 8'	7.25	8	6
		Pipe, 15" diameter			
400	LF	0 to 6' deep	46.4	45	46
50	LF	6.1' to 8' deep	54	53	66
50	VF/LF	Excess depth over 8'	6.35	8	10

Quantity	Unit	Description	Low	Second	Third
		Pipe, 18" diameter			
400	LF	0 to 6' deep	48.6	50	50
50	LF	6.1' to 8' deep	56.5	58	70
50	VF/LF	Excess depth over 8'	7.5	8	11
		Pipe, 24" diameter			
100	LF	0 to 6' deep	58	60	61
50	LF	6.1' to 8' deep	66.4	70	86
50	VF/LF	Excess depth over 8'	9.7	10	13
		Pipe, 30" diameter			
100	LF	0 to 6' deep	73.95	85	82
50	LF	6.1' to 8' deep	82.8	100	105
50	VF/LF	Excess depth over 8'	9.45	15	14
		Pipe, 36" diameter			
50	LF	0 to 6' deep	88.05	90	90
25	LF	6.1' to 8' deep	97.35	110	111
50	VF/LF	Excess depth over 8'	12.2	16	18
		Pipe, 42" diameter			
100	LF	0 to 6' deep	102.2	110	120
25	LF	6.1' to 8' deep	112.15	125	136

Quantity	Unit	Description	Low	Second	Third
50	VF/LF	Excess depth over 8'	12.43	21	25
		Pipe, 48" diameter			
100	LF	0 to 8' deep	124.25	150	128
25	LF	8.1' to 10' deep	134.55	165	155
50	VF/LF	Excess depth over 10'	12.7	25	30
		Pipe, 54" diameter			
50	LF	0 to 8' deep	143.05	165	178
25	LF	8.1' to 10' deep	153.8	190	194
50	VF/LF	Excess depth over 10'	18	35	32
30	EA	Adjust Manhole Frames and Cover	215	250	260
15	VF	Adjust Miscellaneous Drainage Structure	200	350	360
		Catch Basins and Inlets (complete in place, including excavation, backfill, frame, grate, and back)			
		Catch Basin, standard 2' x 4'			
20	EA	0 to 6' deep	1500	2000	1800
10	VF	Excess depth over 6'	100	125	215
		Flat Top Catch Basin, standard 2' x 4'			
5	EA	0 to 6' deep	1300	1800	1800
5	VF	Excess depth over 6'	100	225	260

Quantity	Unit	Description	Low	Second	Third
2500	SY	Seeding and Mulching	1	2	1
1000	SY	Sodding	8	4	12
		Standard Curb Inlet, 4' diameter			
15	EA	0 to 6' deep	1300	1700	1850
10	VF	Excess depth over 6'	100	150	265
		Standard Curb Inlet, 5' diameter			
5	EA	0 to 6' deep	1400	1850	1950
10	VF	Excess depth over 6'	115	200	265
		Standard Curb Inlet, 6' diameter			
2	EA	0 to 6' deep	1500	2250	2050
10	VF	Excess depth over 6'	125	300	285
		Standard Curb Inlet, 7' diameter			
2	EA	0 to 6' deep	1600	2500	2650
10	VF	Excess depth over 6'	185	325	320
		Fence Relocation			
200	LF	4' High Chain Link	2.5	6	10
100	LF	6' High Chain Link	3	8	15
100	LF	3'-4' Board	5	5	12
100	LF	Wood Post and Rail	5	11	10

Quantity	Unit	Description	Low	Second	Third
1500	SF	8" Thick Brick Headwall (complete in place, including excavation, concrete footing, and backfill)	15.75	25	25
		Guardrail (complete in place)			
200	LF	Straight Sections	20	14	27
4	EA	End Sections	400	400	475
200	LF	Sanitary Sewer Services, relay and repair	30	25	27
200	LF	Water Line Service, relay and repair	15	30	22
25	EA	Reset Water Meter Boxes	75	75	180
800	LF	Silt Fence (installation and removal)	2.5	3	4
250	EA	Straw Bales (installation and removal)	4	6	7
200	TONS	Reprap Check Dams (installation and removal)	25	25	30
200	LF	Brush Barriers (installation and removal)	8	6	6
10	EA	Project Signs	100	400	250
		Total Bid	\$447,890.55	\$549,490.00	\$563,375.00

STREETS & DRAINAGE

**Chattanooga -- WIDENING OF MOUNTAIN CREEK ROAD -- Date Received: 7/23/96 -- Source: Chattanooga Department of Public Works
Low Bidder: Talley Construction Co.**

Quantity	Unit	Description	Low	Second	Third
5450	CY	Common and Borrow Excavation	10	10.14	6.75
535	CY	Undercut (removal and disposal of unsuitable material)	10	9	8
535	CY	Backfill for undercut	10	9	8
1	LS	Clearing and Grubbing	70000	56671	57493.5
100	CY	Rock Excavation	100	50	100
1	EA	Junction Box, 10' diameter	7500	12416.42	12200
1	EA	Junction Box (complete in place)	7500	6650.11	7500
1000	LF	Rock Wall, varies from 3' to 4' in height (complete in place, includes excavation, backfill, foundation, reinforcing steel, and stone base)	60	41.86	60
1	LS	Box Culvert with Wingwalls 12'x3'x50'(complete in place, including excavation, reinforcing steel, backfill, all material and labor, etc.)	52500	39078	45000
3360	SF	Concrete Drive Replacement, Class A, 6" thick	2.75	3.3	3.4
4	EA	Manholes, 4" diameter 0-6.0' deep (complete in place, including frame, cover, and paving rings)	1500	1675.89	1400
1765	TONS	Asphaltic Binder, Class B	38	30.76	29
1065	TONS	Asphaltic Surface	41	33.48	31
25	TONS	Asphalt Drive Replacement	50	99.24	100

Quantity	Unit	Description	Low	Second	Third
6500	TONS	Mineral Aggregate Base for road	11	10.5	12
250	TONS	Gravel Drive Replacement 33-P Bedding/Backfill	15	14	12
8840	LF	Extruded Concrete Curbs	2	3.03	3.1
5135	GAL	Prime Coat	1	0.88	0.9
1285	GAL	Tack Coat	1	0.69	0.7
1	LS	Removal of existing rock wall and foundation	2500	1080	7000
228	LF	Bituminous Coated Corrugated Metal Pipe Arch, 72" x 48" BCCMPA-12 gage (complete in place, including trench excavation, stone bedding and backfill to top of trench)	92	97.35	150
		Reinforced Concrete Pipe, Class IV (complete in place, including trench excavation, stone bedding and backfill to top of trench)			
102	LF	Pipe, 24" diameter, 0' - 6.0' deep	48	59.04	55
242	LF	Pipe, 18" diameter, 0' - 6.0' deep	36	48.77	45
1642	LF	Pipe, 15" diameter, 0' - 6.0' deep	30	42.01	42
1	EA	Drop Inlet, 4' x 4', 0'-6.0' deep	2500	3260.02	2100
1	EA	Catch Basin, 2' x 8' with CI grate and back, 0'-6.0' deep	2500	3610.81	3500
19650	SY	Seeding and Mulch	0.9	0.4	1
450	SY	Sodding (spot)	7.15	4.51	7
3275	CY	Topsoil	7.5	15	24
15	EA	Standard Curb Inlets	1500	1716.12	1280
200	LF	Fence Relocation	10	192.71	7

Quantity	Unit	Description	Low	Second	Third
18	CY	Riprap	100	21	32
20	EA	Inlet Protection	250	150	80
10000	LF	Silt Fence (installation and removal)	3	2.5	1.5
4	EA	Check Dams, riprap and/or straw bales (installation and removal)	500	100	150
275	CY	Construction Entrance (temporary)	20	17	32
2690	SY	Polyjute Open Weave Geotex	2	1.68	1
180	SY	300ST Woven Geotextile	2	4	1
20	EA	Traffic Signs Miscellaneous, construction (installed and maintained)	150	136.68	175
2	EA	Barricades with flashers, Type III (in place and maintained)	500	472.32	200
1	LS	Testing Allowance	5000	5000	5000
		Total Bid	\$719,624.00	\$728,349.55	\$747,800.00

STREETS & DRAINAGE

Kingsport -- KINGSPORT REGIONAL CONFERENCE/CIVIC CENTER & HOTEL -- Date Received: 4/21/95--Source: Vaughn & Melton
Low Bidder: Thomas Construction Co

Quantity	Unit	Description	Low	Second	Third
		Box Culverts and Stream Relocation:			
1	EA	Sediment Trap (install and remove)	\$1,500.00	\$1,500.00	\$5,500.00
1	EA	Coffer Dam (install and remove)	1330	1000	500
1200	LF	Silt Fence	2.08	2	3
2.1	ACRE	Clearing and Grubbing	5780	1500	1200
1021	CY	Common Excavation	5	6	6
509	CY	Borrow Material	5	10	6
57	LF	Box Culvert , 6' x 4' x 57'	384	325	479
2	EA	Catch Basins	1410	1500	900
100	TONS	Backfill, No. 57 stone	13.61	12	15
99	LF	Box Culvert , 6' x 4' x 99'	317	325	479
100	TONS	Mineral Aggregate, No. 1 stone	11.93	14	15
470	SY	Geotextile Fabric	2.06	1.75	2
475	TONS	Rubble Stone Riprap (ditch)	16.82	20	23
18	TONS	Rubble Stone Riprap (meanders)	20.36	20	26
2.1	ACRE	Seed, Fertilizer, Lime, and Mulch	1140	1100	1250

Quantity	Unit	Description	Low	Second	Third
9685	SY	Netting	0.18	0.9	2.25
		Total for Box Culverts and Stream Relocation	\$97,220.48	97275	\$137,573.25
		On-site Water Lines:			
3310	LF	8" Ductile Iron Pipe	17.61	18.9	23.85
840	LF	6" Ductile Iron Pipe	14.74	19.57	20.35
2	EA	8" Gate Valves	640	851	700
2	EA	6" Gate Valves	470	566	475
5100	LBS	Ductile Iron Fittings	3.5	1	1.65
480	TONS	Stone for Backfill under Pavement	11.37	12	15
4	EA	Fire Hydrants	2516	2000	1500
1	LS	Metering and Valve Pit with fittings, door, valves, assemblies, conduit, and drains	17024	17599	14560
		Total for On-site Water Lines	\$123,286.30	\$118,290.80	\$134,562.50
		On-site Sewer Lines:			
658	LF	12" PVC Pipe	31.64	47	25.85
746	LF	10" PVC Pipe	37.37	49	24.3
1240	LF	8" PVC Pipe	30.97	31.25	23
140	LF	6" PVC Pipe	26.74	23	21.85
20	LF	4" PVC Pipe	24.31	23	21
2	EA	Manholes (0-6')	1273	1375	1250

Quantity	Unit	Description	Low	Second	Third
5	EA	Manholes (6.1-8')	1476	1775	1700
5	EA	Manholes (8.1-10')	1736	2068	2000
1	EA	Manholes (10.1-12')	1931	2290	2300
1	EA	Manholes (12-14')	2220	2706	2700
1	EA	Wye 8" x 4"	35	100	75
550	TONS	Stone for Backfill under Pavement	10.72	12	15
		Total for On-Site Sewer Lines	\$120,017.74	\$143,571.00	\$101,461.10
		Total Bid	\$340,524.52	\$359,136.80	\$373,596.85

STREETS & DRAINAGE**Memphis -- WEAVER ROAD - RAINES ROAD TO FIELDS ROAD -- Date Received: 2/9/96 -- Source: Division of Engineering****Low Bidder: Acaff/Scott**

Quantity	Unit	Description	Low	Second	Third
1	LS	Clearing, Grubbing, and Removal of Structures and Obstructions	107500	138620	260975
34000	CY	Excavation (unclassified)	2	3.5	3
28250	CY	Embankment (select)	2	1	5.4
285160	LB	Portland Cement for undercut backfill or subgrade stabilization	0.098	0.085	0.1
100	MG	Water	6	10	15
2000	LF	Erosion Control (silt fence and/or hay bales)	5	4.75	3.25
1	LS	Temporary Rock Silt Screen used in channels	1500	5600	8600
1590	SY	Aggregate Base for Cement Stabilization, 6" thickness	2.8	3.25	3.5
35210	SY	Aggregate Base for Cement Stabilization, 12" thickness	4.1	4.6	4.8
2851600	LB	Portland Cement for Cement Stabilized Aggregate Base	0.069	0.07	0.07
600	TONS	Asphaltic Concrete Base (black base), varying thickness	38	36.75	38.15
37940	SY	Asphaltic Concrete Surface, mix No. 1, 1" thickness	1.9	1.84	1.9
3170	SY	Asphaltic Concrete Surface, mix No. 1, 1.5" thickness	2.9	2.78	2.9
37940	SY	Asphaltic Concrete Binder, mix No. 3, 2" thickness	3.25	3.15	3.3
460	SY	Portland Cement Concrete Pavement, 10" thickness, 5000 PSI concrete	38.7	39	42.5
53885	SF	Concrete Sidewalk, 4" thickness	2	2.1	3.1

Quantity	Unit	Description	Low	Second	Third
4710	SF	Concrete Driveway, 6" thickness	2.8	2.65	4.25
1620	SF	Concrete Driveway, 8" thickness	3.55	3.8	5
1600	SF	Concrete Driveway, 10" thickness, Class P concrete	4.3	4.3	6.25
6	EA	Concrete Curb Ramp (existing conditions)	500	425	600
8	CY	Concrete Retaining Walls (gravity type)	250	260	700
145	CY	Reinforced Concrete Retaining Walls (cantilever type)	320	365	540
9900	LF	6-30 Concrete Curb and Gutter	10.65	9.9	13
1240	LF	9-30 Concrete Curb and Gutter	12.5	11.2	15
375	LF	Unlined Channel (sodded v-bottom special ditch)	10	8	6
1116	LF	Storm Drain Pipe, 15" reinforced concrete pipe, Class III, 0-6' depth	24.55	26.5	26.25
120	LF	Storm Drain Pipe, 15" reinforced concrete pipe, Class III, 6-8' depth	25.7	28.5	27.2
2124	LF	Storm Drain Pipe, 18" reinforced concrete pipe, Class III, 0-6' depth	27.4	29.35	30
174	LF	Storm Drain Pipe, 18" reinforced concrete pipe, Class III, 6-8' depth	28.55	31.35	31.5
66	LF	Storm Drain Pipe, 18" reinforced concrete pipe, Class III, 8-10' depth	30	33.5	32.5
354	LF	Storm Drain Pipe, 24" reinforced concrete pipe, Class III, 0-6' depth	38.6	42.4	41.9
78	LF	Storm Drain Pipe, 24" reinforced concrete pipe, Class III, 6-8' depth	40.05	44.9	43
30	LF	Storm Drain Pipe, 30" reinforced concrete pipe, Class III, 0-6' depth	50.25	59.3	55
276	LF	Storm Drain Pipe, 30" reinforced concrete pipe, Class III, 6-8' depth	51.7	61.3	57
108	LF	Storm Drain Pipe, 36" reinforced concrete pipe, Class III, 0-6' depth	66.95	75.74	73.7

Quantity	Unit	Description	Low	Second	Third
60	LF	Storm Drain Pipe, 36" reinforced concrete pipe, Class III, 6-8' depth	68.35	78	76
60	LF	Storm Drain Pipe, 36" reinforced concrete pipe, Class III, 8-10' depth	70.25	81	80
72	LF	Storm Drain Pipe, 48" reinforced concrete pipe, Class III, 0-6' depth	97.05	107.4	106
6	LF	Storm Drain Pipe, 48" reinforced concrete pipe, Class III, 6-8' depth	98.9	109.4	112
12	LF	Storm Drain Pipe, 48" reinforced concrete pipe, Class III, 8-10' depth	101.4	112.4	120
90	LF	Removal of existing 8" pipe	10	4	5
120	LF	Removal of existing 12" pipe	10	4	6
110	LF	Removal of existing 15" pipe	10	5	8
420	LF	Removal of existing 18" pipe	10	8	9
180	LF	Removal of existing 24" Pipe	10	10	10
90	LF	Removal of existing 36" pipe	10	10	15
5	EA	Manhole, 4' diameter standard depth (0-6') less rim and cover	922	1125	1150
7	EA	Manhole, 5' diameter standard depth (0-6') less rim and cover	1292	1250	1400
2	EA	Manhole, 6' diameter standard depth (0-6') less rim and cover	1595	1540	2200
7	VF	Manhole, 4' diameter extra depth	109	175	90
9	VF	Manhole, 5' diameter extra depth	134	190	120
10	VF	Manhole, 6' diameter extra depth	160	245	200

Quantity	Unit	Description	Low	Second	Third
31	EA	6-72 Inlet, less frame and grate	905	1300	1200
2	EA	3' x 3' Inlet, less rim and cover	872	1200	1200
1	EA	Inlet, No.10, less frame and grate	670	1100	900
7	EA	Inlet, No. S-10, less frame and grate	811	1100	950
28	VF	Inlet, extra depth 6-72	145	250	160
5	VF	Inlet, extra depth No. S-10	97	180	90
16	EA	Manhole, No. 7, rim and cover	171	190	225
31	EA	Tapered 6-72 Frame and Grate	543	475	500
8	EA	Frame and Grate, No. 10	214	208	225
1	EA	Headwall with Wingwalls, 18" Pipe, Type D	850	850	1250
1	EA	Headwall with Wingwalls, 24" Pipe, Type D	1150	1050	15.00.00
2	EA	Headwall with Wingwalls, 36" Pipe, Type D	1500	1700	1800
1	EA	Headwall with Wingwalls, 48" Pipe, Type D	1800	2950	2200
17	EA	Structure Removal	500	500	300
3500	TONS	Stone Riprap, Grade C, varying thicknesses	27	25.9	27.5
5	EA	Service Connection, house (removal and replacement)	300	350	400
85	LF	Reinforced Concrete for Sewer Line Encasement	99.55	135	50
16	SF	Flat Sheet Aluminum Signs, 0.08"	24	24.2	24.5

Quantity	Unit	Description	Low	Second	Third
4	EA	12' Steel Stanchions, unit weight -3 lb/ft	60	57.2	60
1200	LF	Solid Barrier Line (4") hot thermoplastic	0.65	0.66	0.7
10800	LF	Broken Lane Line (4") (hot thermoplastic)	0.45	0.44	0.5
1200	LF	Double Solid Barrier Line (4") (hot thermoplastic)	1.1	1.1	1.2
7450	LF	Double Broken/Solid Barrier Line (4") (hot thermoplastic)	1	0.99	1
230	LF	Crosswalk (hot thermoplastic)	6.5	6.6	6.7
70	LF	Stop Line (hot thermoplastic)	16.3	16.5	17
2600	SF	Channelization	3.25	3.3	3.3
6	EA	Turn Arrow (hot thermoplastic)	136	137.5	150
6	EA	Double Turn Arrow (hot thermoplastic)	260	264	280
6	EA	Word Pavement Marking, "ONLY" (hot thermoplastic)	147	148.5	160
1	LS	Traffic Control Devices for construction work zones	95000	33000	108100
433	LF	Chain Link Fence, 4' height	6	5.24	8
29000	SY	Sodding with new sod	2.8	2.65	2.45
110	TONS	CR-610 Limestone	17.75	18	22
8620	TONS	Pit Run Travel for general use in place	8	7.94	8.85
48	CY	Concrete for general use, Class A	141	100	120
18	EA	Standard Manhole Adjustment	375	650	450

Quantity	Unit	Description	Low	Second	Third
2	EA	Manhole Adjustment with Adapter Rings	150	125	150
46	EA	Water Service Line adjusted to new grade	100	125	250
270	LF	Metal Beam Barrier Rail	56.3	55.3	57
25	CY	Concrete for Grouting Riprap in place, 3000 PSI concrete	141	150	160
1	LS	Remove and reset steel signboard at station 117+80	1000	1500	2000
1	LS	Remove and reset light pole and street light at station 118+50	1500	500	800
1	LS	Remove and reset brick and wrought iron fence at station 141+50	5000	8200	15500
1	LS	Connect PVC drain lines to proposed inlet at station 118+54	500	1000	200
275	LF	Relocate MLGW security fence and gate at substation	20	12.87	15
1	LS	Removal of structures (existing bridge No. 79-4196-2.46) (TDOT)	19000	18375	18900
130	CY	Dry Excavation Bridges (TDOT)	6.65	6.41	6.55
420	TONS	Granular Backfill Bridges (TDOT)	21.2	20.48	21
167	CY	Concrete Bridge Deck, Class D (F'c = 4,000 PSI) (TDOT)	359	346.5	354
33615	LB	Epoxy Coated Reinforcing Steel (TDOT)	0.68	0.66	0.68
94	CY	Concrete Bridges, Class P (F'c = 5,000 PSI) (TDOT)	386	372.75	381
15120	LB	Steel Bar Reinforcement Bridge (TDOT)	0.48	0.46	0.5
407	SY	Pavement at Bridge Ends (TDOT)	174	168	171.2
362	SY	Applied Texture Finish New Structures (TDOT)	5.45	5.25	5.35
100	LF	Precast Concrete Test Pile, size 1 (TDOT)	54.35	52.5	54

Quantity	Unit	Description	Low	Second	Third
1020	LF	Precast Concrete Piling, size 1 (TDOT)	22.85	22.05	22.6
180	LF	Precast Concrete Piles, size 1 (cut-offs) (TDOT)	17.95	17.33	17.75
635	LF	Precast Concrete Box Beam (30" x 36")	114	110.25	113
195	LF	Concrete Parapet with structural tubing (TDOT)	102	98.7	101
202	LF	Corrugated Metal Pipe, 18 GA, 6" diameter, with porous backfill (TDOT)	27	26.25	27
40	LF	Corrugated Metal Pipe, 18 GA, with underdrain (TDOT)	16.3	15.75	16
1	LS	Sheet piling temporary walls (TDOT)	15500	16700	15000
		Total Bid	\$2,249,766.03	\$2,270,367.24	\$2,743.602.00

STREETS & DRAINAGE

Memphis -- RESURFACING OF VARIOUS STREETS -- Date Received: 6/30/95 -- Source: Division of Engineering
Low Bidder: Apac-Tenn, Inc.

Quantity	Unit	Description	Low	Second	Third
646000	SY	1-1/2" Asphaltic Concrete Surface Overlay, hot mix, No. E-411, Grade E limestone aggregate (TDOT)	2.25	2.22	
203686	SY	1" Asphaltic Concrete Surface Overlay, hot mix, No. E-411, Grade E limestone aggregate (TDOT)	1.6	1.62	
223286	SY	Cold Plane existing surface	0.75	0.83	
10000	TONS	+ OR - Tons of Cold Plane existing surface material delivered to city yard	2	10	
5000	TONS	Asphaltic Concrete Bushing Course, mix No. 2	29	27.77	
5500	TONS	Conditioning of existing surface replace with mix No. 2	43	31.49	
1	LS	Furnish and install sewer and drain adaptor ring as needed	20000	38750	
6200	LF	Solid Barrier Line (4") plastic	0.44	0.44	
3300	LF	Solid Barrier Line (4") 3M	1.9	1.91	
59000	LF	Broken Lane Line (4") plastic	0.34	0.34	
34190	LF	Solid Barrier Line (4") 3M	1	1.01	
83715	LF	Double Solid Barrier Line (4") plastic	0.8	0.8	
24516	LF	Double Solid Barrier Line (4") 3M	3.75	3.77	
7525	LF	Double Broken/Solid Barrier Line (4") plastic	0.8	0.8	

Quantity	Unit	Description	Low	Second	Third
12636	LF	Double Broken/Solid Barrier Line (4") 3M	2.9	2.92	
4500	LF	Crosswalk (6") plastic	5	5.03	
2280	LF	Crosswalk (6") 3M	6	6.04	
1250	LF	Stop Line (24") plastic	10	10.06	
505	LF	Stop Line (24") 3M	12	12.07	
56280	LF	4" Shoulder Line	0.25	0.25	
9200	SF	Channelization Paint	1.5	1.51	
9	EA	Pavement Marking, railroad crossing	400	402.4	
56	EA	Plastic Turn Arrow	110	110.66	
55	EA	Turn Arrow 3M	150	150.9	
38	EA	Plastic Word Pavement Marking, "ONLY"	120	120.72	
24	EA	Word Pavement Marking, "ONLY" 3M	190	191.14	
1	LS	Traffic Control Services	15000	3500	
		Total Bid	\$2,757,921	\$2,779,982.37	

STREETS & DRAINAGE

**Rhea County -- BRAYTON MOUNTAIN ROAD RESURFACING -- Date Received: 7/12/95 -- Source: Professional Engineering Services, Inc.
Low Bidder: Vulcan Materials**

Quantity	Unity	Description	Low	Second	Third
7.52	M.TN	Tack Coat Bituminous Material	\$142.86	\$225.00	\$227.00
4709	M.TN	Mineral Aggregate	15.53	20	25.97
347	M.TN	Asphalt Cement	161.89	175	200
1	LS	Traffic Control including labor	1568.75	4000	2500
6310	Meter	Pavement Marking, center lines/edge lines	0.73	0.2	0.95
1	LS	Mobilization	1700	3000	2500
		Total Bid	\$138,255.96	\$164,859.00	\$204,394.27

STREETS & DRAINAGE

Shelby County -- HOUSTON LEVEE ROAD PHASE 5 -- Date Received: 1/17/96 -- Source: Shelby County Engineers Office
Low Bidder: White Construction, Inc.

Quantity	Unit	Description	Low	Second	Third
1	LS	Construction Stakes, lines and grades	\$25,000.00	\$24,875.00	\$45,000.00
1	LS	Clearing and Grubbing	65800	45235	62500
1	LS	Removal of Structures and Obstructions	19665	2000	1500
35	LF	Removal of 15" Pipe	8	6	10
74	LF	Removal of 18" Pipe	10	6	12
46	LF	Removal of 30" Pipe	14	8	15
1409	SY	Removal of Asphalt Pavement	0.5	2.5	2
50	LF	Removal of 6-30 Curb	4	4	5
15502	CY	Road and Drainage Excavation (unclassified)	2.5	3.25	1.8
1500	CY	Undercutting	4.25	4.5	3
10	MG	Water	10	8	6
435	CY	Channel Excavation (unclassified)	5.5	3.5	5
40308	CY	Embankment	4.92	5.25	6.1
787	CY	Bedding Material, pipe, Class B	12.3	12	11.45
7	CY	Foundation Fill Material (flowable mortar)	75	85	198
3970	LF	Temporary Berm	0.2	0.2	0.25

Quantity	Unit	Description	Low	Second	Third
454	CY	Sediment Removal	4.5	2	8
1300	BALE	Baled Hay or Straw Erosion checks	5	5.5	5
45	TONS	Dumped Rock	25	22	28
1681	LF	Temporary Silt Fence	1.75	2.5	2
630	TONS	Mineral Aggregate, Type A base, Grade D	14.5	12	16
436	TONS	Granular Backfill for Structures	15.2	14	14.85
6486	TONS	Bituminous Plant Mix Base (BPMB-HM) Grade B	29.89	29.61	31.35
14235	TONS	Mineral Aggregate (A-CBC)	8.25	7.63	7.8
996	TONS	Portland Cement (A-CBC)	84.8	97	94.5
28242	SY	Processing (A-CBC)	1.54	1.25	1.62
3	TONS	Bituminous Material for Tack Coat (TC) (diluted)	174.9	173.25	183
2287	TONS	Mineral Aggregate for A.C. Surface, Grade D (ACS)	22.74	22.52	23.85
146	TONS	Asphalt Cement for A.C. Surface, Grade D (ACS)	180.2	178.5	189
161	CY	Concrete Box Bridges, 4000 PSI roadway, Class A	299	407	316
17020	LBS	Steel Bar Reinforcement, box bridges, roadway	0.42	0.58	0.5
507	LF	15" Concrete Pipe Culvert, Class III (installed complete)	25	25	25.45
461	LF	18" Concrete Pipe Culvert, Class III (installed complete)	28.8	27.85	28.35
400	LF	21" Concrete Pipe Culvert, Class III (installed complete)	33.1	34	32.65
450	LF	24" Concrete Pipe Culvert, Class III (installed complete)	39.6	39	40.25

Quantity	Unit	Description	Low	Second	Third
306	LF	30" Concrete Pipe Culvert, Class III (installed complete)	51.3	52.3	52.1
221	LF	36" Concrete Pipe Culvert, Class III	68	69.1	69.15
154	LF	48" Concrete Pipe Culvert, Class III (installed complete)	97.7	99.8	100.6
8	LF	18" Corrugated Metal Pipe Culvert (coated and installed complete) 14 G	24.95	25	23.95
595	LF	24" Corrugated Metal Pipe Culvert (coated and installed complete) 14	28	27.3	29.35
100	LF	36" Temporary Erosion Control Pipe	35	30.1	31.5
250	LF	18" Slotted Drain Pipe	50	58.8	60.3
80	LF	24" Slotted Drain Pipe	54.8	65.12	65.75
1	EA	Manholes, Type III, 5' diameter, depth 4'-6' (including rim and cover)	1400	1430	1425
3	EA	Manholes, Type III, 5' diameter, depth 6'-8' (including rim and cover)	1600	1850	1700
1	EA	Manholes, Type III, 6' diameter, depth 8'-12' (including rim and cover)	2700	3050	2500
1	EA	Manholes, Type III, 7' diameter, depth 8'-12' (including rim and cover)	4000	3500	2900
4	EA	Inlet, Type 6-72 M, 0-4' depth (including frame and grate)	1500	1625	1400
8	EA	Inlet, Type 6-72 Twin Type M, 4'-6' depth (including frame and grate)	3250	3150	2800
13	CY	Concrete Pipe Endwalls, Class A	500	485	288
1548	LBS	Pipe Endwalls, steel bar reinforcing	1	1	0.7
132	LBS	Pipe Endwalls, structural steel	4	4.5	3
200	SF	8" Concrete Driveway	4.25	3.8	4
3005	LF	Concrete Curb, 4" mountable, Type B	9.6	8.25	7.45

Quantity	Unit	Description	Low	Second	Third
1125	LF	Concrete Curb, 6" non-mountable, Type B	9.33	8.25	7.9
4865	LF	Concrete Combined Curb and Gutter, Type 6-30	12.1	10.75	9.5
34	LF	Concrete Combined Curb and Gutter, Type 6-18	11	10.5	8.15
1	EA	Energy Attenuation Device (Hi-Dro Cell) 45 MPH	29300	27375	27650
1729	LF	Stock Fence	3	3.3	4.6
1	EA	15' Gate Stock Fence	1000	330	280
632	TONS	Machined Riprap, Class B	27.5	28	30.15
6504	SY	Filter Cloth	1.2	3.84	5.65
10190	SY	Geogrid Reinforcement	3.5	5.82	8.95
1	LS	Traffic Control	6222	20390	15300
1400	LF	Interconnected Portable Barrier Rail	16.8	16	50
95	EA	Flexible Drums (channelizing)	48.83	30	50
20	EA	Warning Lights, Type A	128.57	40	131.65
30	EA	Warning Lights, Type C	137	80	141.15
386	SF	Construction Signs	7.6	10	7.8
70	SF	Vertical Panels	13.56	25	13.9
110	LF	Temporary Barricades, Type III	13.02	20	13.35
5320	LF	Removable Pavement Marking Line	2.35	4	1.55
988	LBS	"U" Section Steel Post for Sign Supports	2.94	2.75	2.8

Quantity	Unit	Description	Low	Second	Third
2	EA	Project Signs	941.78	800	890
81.25	SF	Flat Sheet Aluminum Signs (0.080" thick)	16.76	15.66	15.85
100.21	SF	Flat Sheet Aluminum Signs (0.100" thick)	17.96	16.78	16.95
26	LF	Metal Barricades, Type III	45.2	42.24	42.65
181	EA	Raised Pavement Markers, Type 1, yellow	14.12	13.2	13.35
276	LF	Plastic Pavement Marking, crosswalk	9.78	9.13	9.25
202	SY	Plastic Pavement Marking, channelization striping	34.73	32.45	32.75
263	LF	Plastic Pavement Marking, stop line	12.96	12.1	12.25
19	EA	Plastic Pavement Marking, turn lane arrow	123.61	115.5	116
452	LF	Plastic Pavement Marking, 8" dotted line	1.77	1.65	1.65
8	EA	Plastic Word Pavement Marking, "ONLY"	147.16	137.5	139
3	EA	Plastic Word Pavement Marking, "RXR"	565.07	528	533
1	EA	Painted Word Pavement Marking, "MERGE"	147.16	137.5	195
1	EA	Plastic Pavement Marking, straight /turn arrow	206.02	192.5	139
1206	LF	Painted Pavement Marking, transverse shoulder	6.6	6.16	6.25
3	EA	Plastic Pavement Marking, straight arrow	117.72	110	111
1	EA	Plastic Pavement Marking, exit only arrow	170.7	159.5	161
8.23	LM	Painted Pavement Marking, 4" line	1177.23	1100	1125
150	SY	Painted Pavement Marking, channelization striping	17.66	16.5	16.65

Quantity	Unit	Description	Low	Second	Third
135	LF	Painted Pavement Marking, stop line	7.06	6.6	6.65
5	EA	Painted Pavement Marking, turn lane arrow	88.3	82.5	83
2	EA	Painted Word Pavement Marking, "RXR"	329.62	308	311
3	EA	Painted Word Pavement Marking, "ONLY"	94.18	88	89
130	LF	Painted Pavement Marking, dotted line	1.18	1.1	1.15
1	LS	Traffic Signal	124974	128495.4	122.950.00
1	EA	Remove and Relocate Existing Traffic Signal Equipment	15794	14294.5	14450
9	UNITS	Seeding with mulch (water included)	35	75	22
323	UNITS	Temporary Seeding with mulch (water included)	28.5	31.35	22
17563	SY	Sodding with new sod (water included)	2.2	2.59	2.75
1	LS	Water Main	96000	98428	80200
		Total Bids	\$1,760,222.84	\$1,817,137.56	\$1,921,075.11

STREETS & DRAINAGE

Shelby County -- 1995-1996 PLACEMENT OF NEW SIDEWALK AND HANDICAP RAMPS -- Date Received: 10/30/95 -- Source: Shelby County Engineers Office -- Low Bidder: Alcon Building Corp.

Quantity	Unit	Description	Low	Second	Third
750	SF	Timber Retaining Wall, cross tie, 8" thick	\$4.00	\$10.00	\$30.00
113420	SF	Concrete Sidewalk, 4'x 4"	2.35	2.35	4.03
47165	SF	Concrete Sidewalk, 5' x 4"	2.3	2.3	4.03
108	EA	Concrete Driveway with handicap ramp	100	150	612.56
500	SF	Pebble Finish Sidewalk, varied widths, 4" thick	2.35	3.5	6.03
500	SF	Concrete Steps	4	10	60.36
23500	SY	New Sod (in place)	2.35	3	2.53
200	LF	Sidewalk Drain	10	35	52.5
		Total Bids	\$449,216.50	\$482,966.50	\$838,964.03

STREETS & DRAINAGE

Shelby County -- 1995-1996 ASPHALT SURFACING -- Date Received: 10/20/95 -- Source: Shelby County Engineers Office
Low Bidder: Lehman-Roberts Co.

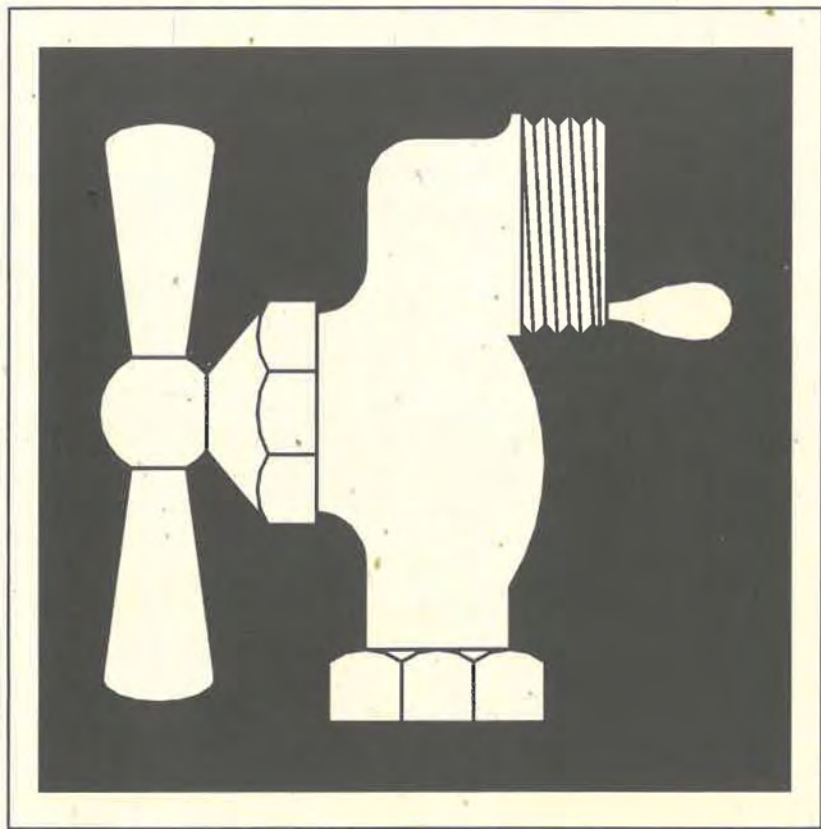
Quantity	Unit	Description	Low	Second	Third
4600	TONS	Bituminous Plant Mix Base (Hot Mix) Grade B	\$32.67	\$38.00	\$38.00
38611	TONS	Mineral Aggregate (ACS) Grade D SP	22.77	21.75	27
2465	TONS	Asphalt Cement (ACS) Grade D SP	163.94	170	175
350	EA	Manhole Riser	48	48	55
		Total Bids	\$1,450,366.57	\$1,450,439.25	\$1,667,922.00

STREETS & DRAINAGE

Shelby County -- 1995-1996 PAINTED PAVEMENT MARKING PROGRAM -- Date Received: 10/30/95 -- Source: Shelby County Engineers Office -- Low Bidder: Traf-Mark, Inc.

Quantity	Unit	Description	Low	Second	Third
100	LM	New Asphalt Overlay Pavement Marking, line	425		
100	LM	Restriping of Existing Line	300		
		Total Bids	\$72,500.00		

Water Works



WATER WORKS

**Brighton -- WATER SYSTEM IMPROVEMENTS -- 1995 CDBG -- Date Received: 12/1/95 -- Source: King Engineering Consultants, Inc.
Low Bidder: Argo Construction Co.**

Quantity	Unit	Description	Low	Second	Third
17812	LF	8" PVC Water Main (SDR-21)	5.85	6.16	5.86
175	LF	6" PVC Water Main	4.48	6.96	5.5
10	LF	4" PVC Water Main	4.25	21.03	5
180	LF	8" D.I.P. Water Main	14.3	33	18
156	LF	8" Uncased Bore for insertion of 8" water main (bore cost only)	45	35	45
1	EA	6" x 6" Stainless Steel Tapping Tee and Valve	1200	855.69	1500
3	EA	6" Wet Connection	130	300	1500
1	EA	4" Wet Connection	125	280	1300
3	EA	8" Gate Valve and Box	508	492.58	650
4	EA	6" Gate Valve and Box	350	381.65	500
10	EA	Concrete Pad around Valve Box	63.5	25	50
18177	LF	Tracer Wire	0.1	0.12	0.1
2000	LB	Ductile Iron Fittings	1.3	2.67	1.45
1	LS	Master Meter, pressure reducing valve, and concrete vault	12300	14716.59	21560
20	TONS	Roadway Repair, 33C crushed limestone	21.55	18	20
2	TONS	Paving Replacement, hot mix asphalt	190.5	66	100

Quantity	Unit	Description	Low	Second	Third
5	TONS	Foundation Sand	14	14	14
1	LS	Seeding, mulching and watering	4065	150	2000
30	TONS	Riprap	20.95	23	30
1	LS	Labor for installation of three fire hydrants, three 8" x 6" tees, three 6" gate valves and boxes, and associated 18' of 6" PVC water main	952.5	1650	2000
1	LS	Labor for installation of blocking and washed gravel for three fire hydrants	380	75	300
1	LS	Altitude Valve	10580	11188.94	16500
5	EA	Connect house services to new 8" main	31.75	150	200
50	LF	3/4" Service Tubing for service connection	1	3	10
5	EA	8" x 3/4" Saddle and Corporation	65	87.25	70
1	LS	Kill Old 2" Main	250	200	300
		Total Bid	\$154,884.15	\$165,930.27	\$178,198.52

WATER WORKS

Clarksville -- TANK PAINTING 0.2MG PEACHERS MILL -- Date Received: 5/29/96 -- Source: Office of the City Engineer.
Low Bidder: Mid-South Maintenance

Quantity	Unit	Description	Low	Second	Third
1	LS	Interior Blasting, cleaning and painting	\$26,550.00	\$30,195.00	\$35,400.00
1	LS	Exterior Blasting, cleaning and painting	72150	104585	110140
150	SI	Pit Welding	7	5.35	4
100	SI	Seam Welding	7	5.6	4
150	SI	Pit Filling using Epoxy Putty	0.75	3.9	0.4
1	LS	Installation of Interior Ladder Safety Climb Device	1500	2055	800
1	LS	Maintenance	1500	4530	2200
		Total Bid	\$103,563.00	\$143,312.50	\$149,600.00

WATER WORKS

**Cleveland -- WATERVILLE SPRINGS - WATER LINE INSTALLATION -- Date Received: 8/21/96 -- Source: Consolidated Technologies, Inc.
Low Bidder: Mayse Construction**

Quantity	Unit	Description	Low	Second	Third
640	LF	Crushed Rock Backfill, Type 33p compacted (in trench for water lines in roadway shoulders, streets, and driveways from top of initial backfill of finished grade.)	\$9.50	\$9.00	
3600	LF	Final Grading and Cleanup (not including grassing and mulch)	1	1	
3000	LF	Seeding and Mulch (complete in place, including topsoil, seed, fertilizer, limestone, mulch, and water.)	1	1	
50	LF	Pavement Replacement, Type 2 asphalt	15	15	
90	LF	Pavement Replacement, Type 4 or Type 9	12	20	
120	LF	Highway Crossing (complete installation by boring and jacking method, including 30-inch steel casing pipe, excavation, concrete, etc., excluding carrier pipe.)	190	135	
2	LS	Cut and connect to existing 12" water line (complete installation of all fittings, piping, labor, excavation, 12" - 90 degree bend, 12" x 14" reducer, 14" repair coupling, concrete thrust blocking, etc., including cutting of line.)	2500	2500	
5000	LB	Ductile Iron Fittings (complete installation of all fittings, including restrained joints and concrete thrust blocks.)	3	0	
7200	LF	14" Ductile Iron Piping, Class 250, push-on O-ring gasket joints (installed in trench, including excavation, pipe, installation, bedding, backfill, labor, restoration, etc.)	21.5	35	

Quantity	Unit	Description	Low	Second	Third
120	LF	14" Ductile Iron Piping, Class 250 (installed in casing pipe for highway crossing)	30	30	
1	EA	14" Date Valve	2100	2650	
2	EA	6" Gate Valve	375	570	
4	EA	1" Air Release Valve (including valve, box, tapping saddle, and accessories)	500	600	
		Total Bid	\$220,560.00	\$297,900.00	

WATER WORKS

Decatur -- PROPOSED WATER LINES -- Date Received: 4/20/95 -- Source: Cook & Spencer Consultants, Inc
Low Bidder: Angel Construction

Quantity	Unit	Description	Low	Second	Third
50	CY	Rock Excavation	\$50.00	\$1.00	\$0.00
50	CY	Crushed Stone Bedding	15	1	20
160	CY	Crushed Stone for Driveway Replacement	15	20	20
20	CY	Concrete for Thrust Block and Concrete Encasement, Class B	100	100	160
90	EA	5/8" x 3/4" Water Meters, complete with all accessories	250	280	280
1800	LF	3/4" Polyethylene Service Lines (200 PSI) Vanguard (including excavation, backfill, boring under roadways, etc.)	2.25	2.25	4
7500	LF	3/4" Polyethylene Service Lines (200 PSI) Vanguard ,66 LMI connections (including backfill, fittings, and connections to house plumbing.)	2.5	2.5	3
48	LF	6" Diameter Ductile Iron Pipe, Class 51	15	12	12
3500	LF	Fittings, Pipe, Class 51	2	2.3	2
100	LF	Light Duty Asphaltic Concrete Pavement, Type I	12.5	10	8
200	LF	Heavy Duty Asphaltic Concrete Pavement (roadways), Type I	12.5	12	12
12	EA	6" Gate Valves (M.J.) 250 PSI service	350	375	350
2	EA	4" Gate Valves (M.J.) 250 PSI service	325	325	310
2	EA	2" Gate Valves (M.J.) 250 PSI service	200	295	225

Quantity	Unit	Description	Low	Second	Third
2	EA	8" x 6" Tapping Valves and Sleeves	1100	1200	1200
2	EA	Air Release Valves	375	425	550
6	EA	Blow-Off Valves Assemblies	500	500	425
36	LF	12" Casing Pipe with 3/8" Walls, jacked or bored	75	75	90
5700	LF	2" PVC, Class 200 Pipe	2.66	2.3	2.4
1300	LF	4" PVC, Class 200 Pipe	3.4	3.2	3.2
41400	LF	6" PVC, Class 200 Pipe	4.62	4.9	4.9
4	EA	Fire Hydrants Assemblies (including hydrants 6" gate valves, tees, pipe, excavation, backfill, gravel, labor, equipment, and all other items for a complete assembly from the water main to hydrant.)	1500	1400	1600
1000	LF	Straw Bale Barriers or Silt Fences	2	1	1.4
		Total Bid	\$297,170.00	\$306,746.00	\$316,136.00

WATER WORKS

**Dunlap -- CENTRAL WATER STORAGE TANK -- Date Received: 4/02/96 -- Source: Consolidated Technologies, Inc.
Low Bidder: The Crom Corp.**

Quantity	Unit	Description	Low	Second	Third
		SCHEDULE I - BASE BID			
1	LS	Mobilization (not to exceed 5 percent of total contract amount)	\$4,725	\$22,000	
1	LS	750,000 Gallon Prestressed Concrete Storage Tank, (complete in place with all site preparation except access roads, cleaning, grubbing, foundation, sidewalk, 15 feet of crushed stone border, crushed stone for parking area, required appurtenances, seeding, mulching, erosion control silt fencing, final cleanup, inlet/outlet pipe, etc.,for 50.5-foot-high by 50-foot-diameter tank.)	260145	364411	
1	LS	Chain Link Fence (complete installation, including clearing as required, fence, gate, posts, required appurtenances, excavation, seeding, and mulching, etc.)	8316	7320	
1	LS	Remote Telemetry Unit (including wiring, lightning protection system, radio transmitter, receiver, any required piping modification, spare parts, etc.)	15950	13000	
1	LS	Altitude Valve Control (including 2 solenoid valves, valve positioned, limit switches to indicate valve position, pressure transducer on altitude valve inlet, all sensor piping, electrical connections, etc. for complete system)	10340	24300	
1	LS	Piping Modification (including wet tap to existing line, tee, gate valve, 60 feet of 10" ductile iron pipe, excavation, cleanup, 110 feet of 8" drain pipe with headwall and riprap, etc.)	8580	25200	
1	LS	Piping Replacement (complete in place with 2 dry or wet taps, tees, gate valves, 450 feet of 8" ductile iron pipe, excavation, concrete thrust blocks, concrete anchors, clean up, etc.)	14190	32700	
1	LS	Access Road (complete in place with all cleaning and grubbing, erosion control silt fencing, excavation, 20' wide earth subbase, 6" thick by 18' wide crushed stone road, bar gate, drainage culvert, riprap, etc. for complete installation)	32285	82300	

Quantity	Unit	Description	Low	Second	Third
		Total Base Bid	\$354,531.00	\$571,231.00	
		SCHEDULE II - DEDUCTIVE ALTERNATE ITEMS			
1	LS	Piping Replacement	14190	19200	
1	LS	Access Road - substitute 6" thick by 12' wide crushed stone road on 20' wide subbase	2000	11000	
1	LS	Chain Link Fencing	8316	7320	
1	LS	Altitude Valve Control	10340	24300	
1	LS	Remote Telemetry Unit	15950	13000	
1	LS	600,000 Gallon Prestressed Concrete Storage Tank ,50.5' high by 45' in diameter (price to delete 750,000 gallon tank and construct 600,000 gallon tank)	19281	19000	
		SCHEDULE III - ADDITIVE ALTERNATE ITEM			
1	LS	1,000,000 Gallon Prestressed Concrete Tank , 50.5' high by 58' in diameter (price to delete 750,000 gallon tank and construct 1,000,000 gallon tank.)	\$39,426.00	\$59,000.00	

WATER WORKS

Greene County -- WATER LINE EXTENSION - WAL-MART DISTRICT CENTER -- Date Received: 8/24/95 -- Source: Vaughn & Melton
Low Bidder: Merkel Construction Co.

Quantity	Unit	Description	Low	Second	Third
3422	LF	8" PVC Pipe	\$8.22	\$8.25	\$8.88
20	LF	8" Ductile Iron Stream Crossing	45	50	100
1073	LF	6" Ductile Iron Pipe	8.53	19	40
44913	LF	12" PVC Pipe	17.22	17.4	18.2
4012	LF	16" Ductile Iron Pipe	21.66	26.5	38
108	LF	12" Ductile Iron Stream crossing	60	65	150
180	LF	12" Ductile Iron Flex-Lok Pipe Stream Crossing	150	175	295
1	EA	3" Gate Valve and Box	250	300	300
1	EA	4" Gate Valve and Box	300	325	490
3	EA	6" Gate Valve and Box	400	350	562
2	EA	8" Gate Valve and Box	450	500	650
32	EA	12" Gate Valve and Box	800	975	1050
1	EA	16" Gate Valve and Box	3000	3475	3600
5	EA	Air Release Valve and Box	350	475	800
367	LF	24" Casing Pipe Open Cut	45	80	72
430	LF	24" Casing Pipe Bore	98.6	200	150

Quantity	Unit	Description	Low	Second	Third
590	LF	24" Casing Pipe Bore, I-81, 11-E, four-lane and railroad	223.18	300	220
70	LF	16" Casing Pipe Bore	70	130	269
550	SY	Asphalt Surface Replacement	15	21	15
375	TONS	Gravel Surface Replacement	10	13	20
33	SY	Concrete Surface Replacement	15	25	30
20	CY	Miscellaneous Concrete	60	100	150
10	YDS	Temporary Pavement	75	20	10
8	EA	Fire Hydrants	1200	1850	1500
3	EA	16" Butterfly Valve and Box	1300	2000	2000
25	LF	30" Casing Pipe/Open Cut	60	115	110
50	LF	30" Casing Pipe/Railroad	150	325	269
50	LF	30" Casing Pipe Bore	150	325	269
18	LF	16" Ductile Iron Stream Crossing	70	275	250
		Total Bid	\$1,206,157.51	\$1,397,702.70	\$1,470,999.96

WATER WORKS

Jackson -- WATER SYSTEM IMPROVEMENTS - MIFFLIN ROAD -- Date Received: 5/14/96 -- Source: J. R. Wauford & Co. Consulting Engineers -- Low Bidder: Counce Construction

Quantity	Unit	Description	Low	Second	Third
3757	LF	12" Water Line, Class 50 ductile iron pipe, push-on joint (complete in place, including all excavation, bedding and backfilling)	\$27.85	\$37.06	\$63.00
198	LF	12" Water Line, ductile iron pipe, ball joint for river crossing (complete in place, including all excavation, bedding and backfilling)	351.05	261.13	325
16	EA	Additional cost (in excess of cost of 12" class 50 ductile iron pipe water line) for furnishing restrained type joints in lieu of standard push-on type joints for thrust restraint on 12" ductile iron pipe water line, complete in place	1091.86	190	180
1300	LBS	Ductile iron mechanical joint fittings not included in lump sum price for connections to existing water lines and fire hydrant installations (complete in place, including ductile iron retainer glands, or approved alternate restrained joints)	5.06	3.32	4
1	LS	Connection of 12" water line to existing 8" water line at approximately station 0+00 (complete in place, including all fittings, connecting pipe, valves and appurtenances)	4074.98	4413	6500
1	LS	Connection of 12" water line to existing 6" water line at approximately Station 39+55, (complete in place, including all fittings, connecting pipe, valves and appurtenances)	2957.08	4013	6250
1	EA	Fire Hydrant (complete in place, including all fittings, 6" connecting pipe, valve and box, connection to main line, and all excavation, bedding and backfill)	2463.4	2413	2600
90	CY	Undercutting and Crushed Stone Backfill (TDOT No.7) for trench	38.88	29.13	50
85	CY	Crushed Stone (TDOT No.7) for pipe bedding and backfill under paved areas	26.35	26.13	50
6	CY	Concrete for Thrust Block and Anchors, Class C	212.86	150	300

Quantity	Unit	Description	Low	Second	Third
10	SY	Replacement Concrete for streets, driveways, and sidewalks, Class A, 6" depth, including reinforcing steel	96.22	230	30
5	CY	Replacement Concrete for replacement of curbs, gutters, and paved ditches, Class A	96.22	300	300
25	CY	Crushed Stone for traffic bound base course and for replacement of untreated surface on roadways and unpaved driveways, Class A, (TDOT)	24.38	29.13	25
95	SY	Asphaltic Concrete Pavement for pavement replacement, Grading E, 3" depth, (TDOT)	36.41	22.13	20
20	CY	Riprap, Class A-1, 18" depth (TDOT) (complete in place)	36.91	29.13	50
4300	LF	Temporary Silt Fence with hay or straw bales (complete in place)	3.29	3.91	6
1	LS	Floating Silt Control Boom (complete in place)	3275	1300	6000
2	EA	Reconnection of existing service line to the proposed water line when both are on the same side of the road (complete in place, including tapping new water line; furnishing and installing corporation stops, tapping saddles, couplings; and all related appurtenances)	195.76	230.51	350
2	EA	Relocation of existing water meter (complete in place, including new yoke or coppersettlers, and connection to existing and proposed service lines)	176.4	250	250
20	LF	3/4" Copper Service Connection Pipe, Type K, (complete in place, including all incidentals)	3.46	17.5	10
1	LS	Disposal of Grubbed Materials within the limits of the ARAP	3000	9300	20000
		Total Bid	\$242,185.15	\$250,813.13	\$393,546.00

WATER WORKS

Livingston -- WATER SYSTEM IMPROVEMENTS -- Date Received: 4/23/96 -- Source: J. R. Wauford & Co. Consulting Engineers, Inc.
Low Bidder: Brown Steel Contr., Inc.

Quantity	Unit	Description	Low	Second	Third
1	LS	Furnish, erect and paint 100,000 gallons elevated water storage tank, and other appurtenances (complete in place)	\$259,600.00	\$321,090.00	
5	CY	Concrete for footings in tank foundation, Class A, (complete, <u>not</u> including reinforcing steel or excavation)	150	150	
5	CY	Concrete for piers or walls, Class A, (complete, <u>not</u> including reinforcing steel or excavation)	210	210	
10	CY	Excavation in earth or rock for tank foundation 0 to 5 feet deep	50	50	
10	CY	Excavation in earth or rock for tank foundation below 5 feet deep	150	150	
10	LF	6" Ductile Iron Pipe, Class 350 (complete in place, including all fittings, excavation, bedding and backfill)	22	22	
20	VF	Extra Rock Drilling 0'-8' deep	100	100	
1000	LBS	Reinforcing Steel for tank foundation, piers, or walls, etc. (complete in place)	0.6	0.6	
10	LF	4" Ductile Iron Pipe, Class 350 (complete in place, including all fittings, excavation, bedding and backfill)	19	19	
5	CY	Concrete for cradles, anchors, and encasements, Class C	80	80	
		Total Bid	\$266,810.00	\$328,300.00	

WATER WORKS

**Sharon -- PAINTING OF 100,000 GALLON ELEVATED TANK -- Date Received: 11/2/95 -- Source: King Engineering Consultants, Inc.
Low Bidder: Jackson Ind. Coatings**

Quantity	Unit	Description	Low	Second	Third
1	LS	Painting of existing 100,000-gallon elevated tank	\$37,000.00	\$52,400.00	
1	LS	Minor repairs to existing 100,000-gallon elevated tank (excluding pit welding, pit caulking, seam welding and seam caulking)	1000	3000	
200	SI	Pit Welding	1	0.5	
200	SF	Pit Caulking	2	4	
100	LF	Seam Welding	10	7	
200	LF	Seam Caulking	2	6	
1	LS	Filling and disinfection 100,000-gallon elevated tank	1000	600	
1	LS	Install Target Indicator and Float	1500	900	
		Total Base Bid	\$42,500.00	\$59,700.00	

WATER WORKS

West Overton Utility District -- 1995 WATER SYSTEM IMPROVEMENTS -- Date Received: 4/30/96 -- Source: Barge Waggoner Sumner and Cannon, Inc. -- Low Bidder: Contract A - Belevins Ditching and Contract B - Laurel Const. Co.

Quantity	Unit	Description	Low	Second	Third
		CONTRACT A			
3680	LF	8" PVC Pipe SDR 21 CL200	6.5	6.75	6.78
29850	LF	6" PVC Pipe SDR 21 CL200	4.75	5.5	5.44
40	LF	4" PVC Pipe SDR 21 CL200	4.5	4.75	4.83
10	LF	2" PVC Pipe SDR 21 CL200	3	4	3.28
4540	LF	8" PVC Pipe SDR 17 CL 250	7.5	7	7.9
80	LF	8" DIP CL 200	15	15	16
24	EA	6" Gate Valves with boxes	340	325	550
4	EA	4" Gate Valves with boxes	300	300	390
6	EA	8" Gate Valves with boxes	625	500	575
2	EA	2" Gate Valves with boxes	250	250	265
2	EA	4x4 TS and V	1000	900	895
2000	LBS	Fittings	2	1.5	3.2
1	EA	4-1/2" Fire Hydrants	1450	1500	1650
2	EA	Blowoffs - 4-1/2" Fire Hydrant	1250	1250	1375
12	EA	New Service Assembly Compl.	275	250	510

Quantity	Unit	Description	Low	Second	Third
50	EA	Reconnect Existing Services Compl.	150	100	375
400	LF	3/4" Polyethylene Tubing	2	5	3
270	LF	Concrete Protection	25	8	23.15
720	LF	Pavement Repair, Type B	5	7	11
1	LS	Booster Station	64945	89000	42986.63
1	LS	Bore and Jack -- W. Paron Rd. with 12" casing pipe and 8" PVC carrier pipe (complete)	3600	2500	18405.23
1	LS	Bore and Jack -- Hwy. 111 with 12" casing pipe and 6" PVC carrier pipe (complete)	4500	9500	18168.3
1	LS	Bore and Jack -- St. Route 293 with 12" casing pipe and 6" PVC carrier pipe (complete)	3150	2200	4239.27
1	LS	Bore and Jack -- St. Route 293 with 12' casing pipe and 6" PVC carrier pipe (complete)	2700	2000	3633.66
1	LS	Bore and Jack -- Hwy 111 with 12" casing pipe and 6" PVC carrier pipe (complete)	12600	9000	16957.08
		Total Contract A	\$338,172.50	\$374,925.00	\$400,667.07
		CONTRACT B			
1	LS	Turkey Mountain - new 300,000-gallon standpipe, foundation, grading, fencing, piping and valves (complete)	147000	177250	176000
1	LS	Golden Pond - new 300,000-gallon standpipe, foundation, grading, fencing, piping and valves (complete)	183000	180250	196500
		Total Contract B	\$330,000.00	\$357,500.00	\$372,500.00

Quantity	Unit	Description	Low	Second	Third
		Add Alternate			
1	LS	Alternative Bid One: add for furnishing and installing an altitude valve - Altitude Valve (complete)	12000	11500	13000
		Total Bid Contract B +Alternate	\$342,000.00	\$369,000.00	\$385,500.00

WATER WORKS

Sparta -- INDUSTRIAL PARK WATER AND SEWER EXTENSIONS -- Date Received: 7/31/96 -- Source: GRW Engineers, Inc.
Low Bidder: J & H Construction Co.

Quantity	Unit	Description	Low	Second	Third
		Bid Schedule A			
2250	LF	12" Water Line, Class 200 PVC (SDR 21)	\$16.00	\$15.50	\$19.00
2	EA	Connection to Existing Water Line, including 12" x 12" tapping sleeve and valve, and valve box	2100	5000	4000
1305	LF	8" PVC Gravity Sewer (SDR 35)	21	16.5	25
6	EA	Standard Manhole, 0-6' deep	1000	2500	1200
1	EA	Extra for Manhole Drop Assembly	1400	1000	1500
14	VF	Manhole Barrel Extension	90	300	300
5	CY	Concrete for Cradles, Anchors and Encasements	100	200	60
10	TONS	Granular Material for Special Pipe Bedding	10	20	15
30	LF	Bituminous Concrete Pavement Replacements	15	50	15
30	LF	Aggregate Surface Pavement Replacement	10	40	15
1	EA	Connection to Existing Manhole	500	2500	700
		Total Bid Schedule A	\$78,115.00	\$93,007.50	\$98,325.00
		Bid Schedule B			
1720	LF	8" Water Line, Class 200 PVC (SDR 21)	12	9.5	20

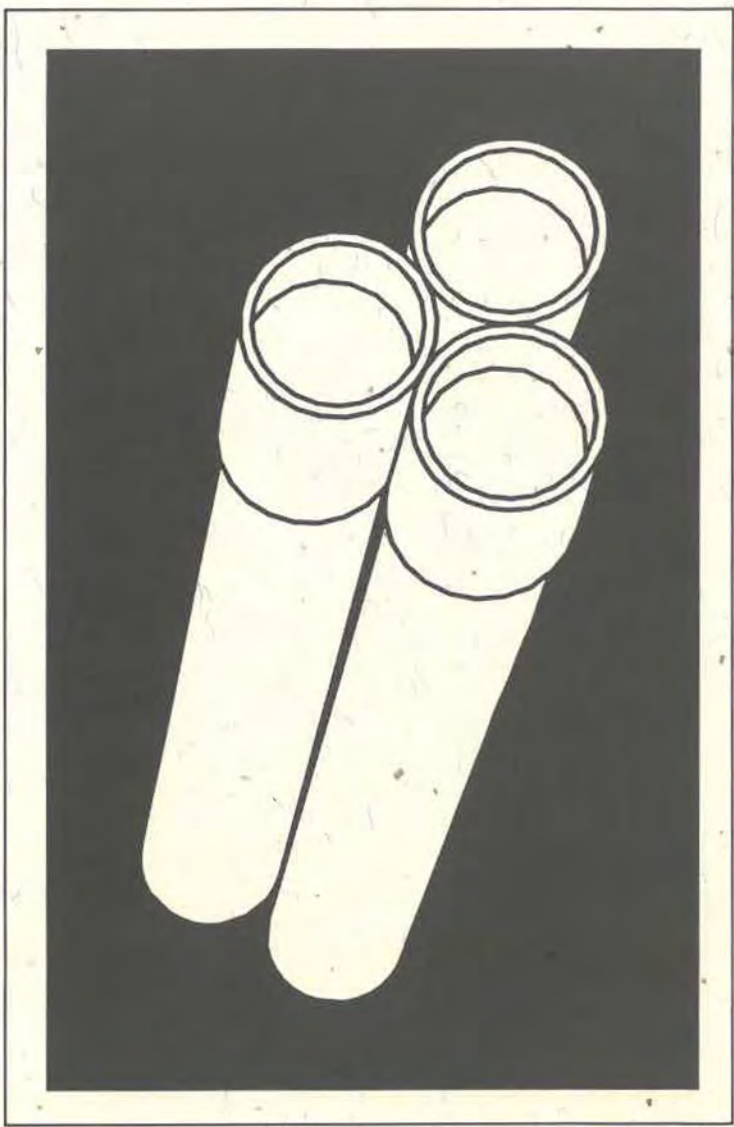
Quantity	Unit	Description	Low	Second	Third
20	LF	6" Water Line, Class 200 PVC (SDR 21)	11	8	5
60	LF	8" Water Line (installed by boring or jacking under paved areas)	60	75	75
2	EA	8" Gate Valve (including valve box)	600	600	300
2	EA	Fire Hydrant Assembly (including 6" gate valve, valve box, and fittings)	1400	1750	1600
600	LF	3/4" Water Service Piping, Class 200 Polyethylene	5	6	2
5	CY	Concrete for Cradles, Anchors, and Encasements	100	200	60
10	TONS	Granular Material for Special Pipe Bedding	10	20	15
60	LF	Bituminous Concrete Pavement Replacement	15	50	15
120	LF	Aggregate Surface Pavement Replacement	10	40	15
		Total Bid Schedule B	\$34,160.00	\$38,300.00	\$47,150.00
		Total Bid	\$112,275.00	\$131,307.50	\$145,475.00

WATER WORKS

Union City--MUNICIPAL WATER SUPPLY WELL--Date Received: 12/5/95--Source: J. R. Wauford and Co. Consulting Engineers
Low Bidder: Layne-Central

Quantity	Unit	Description	Low	Second	Third
1	LS	For furnishing all material and equipment and performing all labor necessary for mobilization and set-up of drilling test hole drilling equipment (complete, including all incidentals)	\$6,000.00		
900	VF	Test Hole Drilling (including electric and gamma ray logs, all incidentals)	17		
800	LF	Steel Outer Casing Pipe, 20" minimum diameter with 0.375" minimum wall thickness (complete in place)	40		
1	LS	For furnishing all material and equipment and performing all labor necessary for the installation and development of one gravel wall municipal water supply well, including all drilling, inner casing pipe, well screen, one vertical turbine well pump and motor, piping, site work; electrical work; and all appurtenances; complete in place and all testing required. (Steel outer casing pipe and test hole drilling are not included in this item.)	215350		
1000	VF	For furnishing all material and equipment and performing all labor necessary for the closure of existing wells (#1 and 2)	14		
		Total Bid	\$282,650.00		

Wastewater



WASTEWATER

Chattanooga -- HIGHLAND PARK SANITARY SEWER REPLACEMENT -- Date Received: 10/10/96 -- Source: Downs Engineering, Inc.
Low Bidder: Mayse Construction Co.

Quantity	Unit	Description	Low	Second	Third
1	LS	Video Taping of Sewer Easement	\$550.00	\$2,500.00	\$5,000.00
		Backfill for 8" diameter pipe			
11100	LF	0' to 6.0' deep	7	7	11.51
5800	LF	6.1' to 8.0 deep	9.85	8.5	15.08
400	LF	8.1' to 10.0' deep	12.15	15	24.4
300	LF	10.1' to 12.0' deep	21.15	24	29.58
10	LF	12.1' to 14.0' deep	31	30	38.67
		Backfill for 10" diameter pipe			
1800	LF	0' to 6.0' deep	7.85	9	10.7
1600	LF	6.1' to 8.0 deep	9.6	12	14.73
10	LF	8.1' to 10.0' deep	16	20	24.06
		Backfill for 12" diameter pipe			
250	LF	0' to 6.0' deep	7.5	12.5	10.36
800	LF	6.1' to 8.0 deep	9.45	18	14.39
10	LF	8.1' to 10.0' deep	16	30	23.48
		Backfill for 15"/16" diameter pipe			

Quantity	Unit	Description	Low	Second	Third
150	LF	0' to 6.0' deep	8	15	9.67
1100	LF	6.1' to 8.0 deep	10.15	17	18.83
10	LF	8.1' to 10.0' deep	16	30	22.67
		Backfill for 18" diameter pipe			
10	LF	0' to 6.0' deep	9.25	18	11.86
360	LF	6.1' to 8.0 deep	12.65	20	17.03
10	LF	8.1' to 10.0' deep	21	33	22.21
7850	LF	Backfill for 6" or 4" diameter service line (regardless of depth)	9.1	7	13.35
50	CY	Crushed Rock Bedding Material	15	23	15.54
125	CY	Clay or Flowable Mortar Cutoff Walls (complete in place)	65	125	125
2500	LF	Temporary Silt Fence	1.5	3	2
100	BALES	Baled Straw Checks	5	7	30
1	EA	Temporary Sediment Basin	200	2000	5000
38	EA	Manhole, 4' diameter, 0-6' deep with base	975	1280	1795.71
50	VF	Manhole Riser Section, standard 4' diameter, extra depth over 6'	75	175	128.9
120	EA	Bore and Boot Existing Manhole	150	300	441.38
10	EA	8" Pipe Drop Connection	600	475	1025
15	EA	Cast Iron Manhole Adjusting Rings, to be used with full street width paving	65	125	254

Quantity	Unit	Description	Low	Second	Third
5000	LF	Pavement Replacement,trench width, double bituminous surface treatment section 404 standard, Type 5 (TDOT)	3	6.25	12
100	TONS	Replacement Pavement E-mix, Type 3,trench width, Type 3	75	90	135
19000	LF	Replacement Pavement, Type 1, cement concrete, trench width	12.45	14	19.98
115	CY	Concrete Ditch Replacement, Class A (complete in place)	200	300	240
100	LF	Replace Asphaltic Concrete Curb (complete in place)	5	5	12.5
2400	SF	Replace 6" Thick Non-reinforced Concrete Driveways	3.25	3.75	3.89
1000	SF	Replace 4" Thick Non-reinforced Concrete Driveways and Sidewalks	3	3.25	2.57
3748	LF	Television Inspection, 8" pipe	1.25	2	2
756	LF	Television Inspection, 10" pipe	1.25	2	2
255	LF	Television Inspection, 12" pipe	1.25	2	2
267	LF	Television Inspection, 15" pipe	1.25	2	2
353	LF	Television Inspection, 18" pipe	1.25	2	2
100	LB	Cast-in-Place Concrete Reinforcement	1.5	2	2
40	CY	Concrete, Class A	100	340	465
50	CY	Concrete, Class B	75	200	115
2500	LB	Cast Iron or Ductile Iron Fittings	1.5	2.9	1.5
		Ductile Iron Pipe, 8" diameter			
40	LF	0' to 6.0' deep	27	29	48.56

Quantity	Unit	Description	Low	Second	Third
10	LF	6.1' to 8.0' deep	29	33	50.56
10	LF	8.1' to 10.0' deep	31	35	53.56
10	LF	10.1' to 12.0' deep	34	45	57.56
10	LF	12.1' to 14.0' deep	39	65	62.56
		Ductile Iron Pipe, 10" diameter			
120	LF	0' to 6.0' deep	29	30	52.01
10	LF	6.1' to 8.0' deep	31	35	54.01
10	LF	8.1' to 10.0' deep	34	45	57.01
		Ductile Iron Pipe, 12" diameter			
10	LF	0' to 6.0' deep	31.5	40	57.57
10	LF	6.1' to 8.0' deep	33.5	44	60.58
10	LF	8.1' to 10.0' deep	37.5	50	64.58
		Ductile Iron Pipe, 16" diameter			
10	LF	0' to 6.0' deep	38	65	68.97
40	LF	6.1' to 8.0' deep	40	68	70.97
10	LF	8.1' to 10.0' deep	45	80	73.97
		Ductile Iron Pipe, 18" diameter			
10	LF	0' to 6.0' deep	40.75	75	77.84
10	LF	6.1' to 8.0' deep	42.75	85	79.83

Quantity	Unit	Description	Low	Second	Third
10	LF	8.1' to 10.0' deep	47.75	95	82.83
		PVC Pipe, 8" diameter			
11700	LF	0' to 6.0' deep	19	22.25	37.88
6050	LF	6.1' to 8.0' deep	20	23.9	39.88
750	LF	8.1' to 10.0' deep	23	29	42.88
300	LF	10.1' to 12.0' deep	26.5	33	46.86
10	LF	12.1' to 14.0' deep	31.5	70	57.88
		PVC Pipe, 10" diameter			
2250	LF	0' to 6.0' deep	22.05	26	40.63
1550	LF	6.1' to 8.0' deep	23.05	29	42.63
10	LF	8.1' to 10.0' deep	24.6	35	45.63
		PVC Pipe, 12" diameter			
250	LF	0' to 6.0' deep	26	33	44.08
1450	LF	6.1' to 8.0' deep	26	40	46.08
10	LF	8.1' to 10.0' deep	35	47	49.08
		PVC Pipe, 15" diameter			
100	LF	0' to 6.0' deep	32	40	44.3
1220	LF	6.1' to 8.0' deep	35	47	52.22
10	LF	8.1' to 10.0' deep	40	65	55.22

Quantity	Unit	Description	Low	Second	Third
		PVC Pipe, 18" diameter			
10	LF	0' to 6.0' deep	35	52	61.17
350	LF	6.1' to 8.0' deep	37.5	56	63.17
10	LF	8.1' to 10.0' deep	45	80	66.17
700	LF	6" PVC Service Line	15.25	17.25	14.95
7150	LF	4" PVC Service Line	15	16.5	14.45
50	LF	6" PVC Riser	10	30	17.76
350	LF	4" PVC Riser	10	18	16.51
40	EA	PVC Pipe Tees, 8" x 6"	33.35	25	152
390	EA	PVC Pipe Tees, 8" x 4"	25	22	148
10	EA	PVC Pipe Tees, 10" x 6"	61.5	60	187
50	EA	PVC Pipe Tees, 10" x 4"	51.5	53	183
10	EA	PVC Pipe Tees, 12" x 6"	72	250	197
20	EA	PVC Pipe Tees, 12" x 4"	62	70	198
10	EA	PVC Pipe Tees, 15" x 6"	105	125	247
16	EA	PVC Pipe Tees, 15" x 4"	96	80	233
10	EA	PVC Pipe Tees, 18" x 6"	238	150	362
10	EA	PVC Pipe Tees, 18" x 4"	225	225	353
5	EA	8" Fernco Coupling	16.25	45	135

Quantity	Unit	Description	Low	Second	Third
5	EA	10" Fernco Coupling	21.5	50	140
5	EA	12" Fernco Coupling	25	65	145
5	EA	15" Fernco Coupling	52.5	80	150
5	EA	18" Fernco Coupling	102	100	260
18810	LF	8" PVC Pipe Deflection Test	0.25	0.25	0.25
3810	LF	10" PVC Pipe Deflection Test	0.25	0.25	0.25
1710	LF	12" PVC Pipe Deflection Test	0.25	0.5	0.25
1270	LF	15" PVC Pipe Deflection Test	0.25	0.5	0.25
370	LF	18" PVC Pipe Deflection Test	0.25	0.5	0.25
370		Total Bid	\$1,389,217.50	\$1,698,623.00	\$2,439,197.48

WASTEWATER

Church Hill -- CDBG PROJECT -- Date Received: 7/30/96 -- Source: Vaughn & Melton
 Low Bidder: Hayes Pipe Supply, Inc.

Quantity	Unit	Description	Low	Second	Third
280	LF	12" PVC Gravity Sewer Pipe	\$4.25	\$4.31	\$4.31
5350	LF	8" PVC Gravity Sewer Pipe	1.83	1.88	1.89
22	EA	Standard Manhole Frames and Castings	115.78	140	195.23
44	EA	Wyes, 8" x 4"	9.67	12.27	12.38
1400	LF	4" PVC Service Lines	0.51	0.54	0.54
2	EA	Watertight Frame and Castings	480	195.8	250
200	LF	2" PVC Pipe, SDR-21	0.29	0.29	0.29
1	EA	Grinder Pump with Electrical Conduit, Valves, etc.	No bid	2860	3250
160	LF	12" Ductile Iron Pipe for installation inside casing pipe	20.57	20.9	16.5
		Total Bid	\$18,967.34	\$22,294.28	\$23,362.08

WASTEWATER

Clarksville -- GLENWOOD DRIVE AREA SEWER SEPARATION -- Date Received: 9/05/95 -- Source: City of Clarksville
Low Bidder: Moore Construction

Quantity	Unit	Description	Low	Second	Third
		15" PVC Pipe with stone backfill			
71	LF	0-6'	\$39.00	\$45.00	
413	LF	6'-9'	47	65	
117	LF	9'-12'	68	85	
		15" PVC Pipe with earth backfill			
205	LF	0-6'	37	22	
93	LF	6'-9'	41	34	
305	LF	9'-12'	58	46	
		15" RCP 0'-6'			
113	LF	Stone Backfill	46	34	
49	LF	Earth Backfill	42	26	
1	LS	64' Bore with 16" casing to act as carrier	14000	10000	
8	EA	Manholes 0'-6'	900	1600	
19.4	VF	Extra depth for manholes	78	200	
1	EA	New Construction, Type 22, area drain 0'-6' depth	1400	2000	
3	EA	Existing structure to be rerouted, plugged, and reconstructed as necessary	2100	1500	

Quantity	Unit	Description	Low	Second	Third
72	SF	Concrete Repair, Plaza lot	17	10	
113	LF	Pavement Repairing, Plaza lot	15	30	
1	LS	Erosion Control and Landscaping	16000	39600	
50	CY	Solid Rock Excavation	30	30	
		Total Bid	\$117,312.20	\$145,195.00	

WASTEWATER

Cookeville -- SEWER SYSTEM IMPROVEMENTS -- Date Received: 3/12/96 -- Source: J. R. Wauford & Company
 Low Bidder: J & S Construction Co.

Quantity	Unit	Description	Low	Second	Third
		12" PVC Gravity Sewer Line (complete in place)			
20	LF	0' to 6' cut	\$30.00	\$40.00	\$42.88
217	LF	6' to 8' cut	28	40	43.4
544	LF	8' to 10' cut	30	40	44.99
231	LF	10' to 12' cut	38	40	45.78
448	LF	12' to 14' cut	40	40	47.2
386	LF	14' to 16' cut	44	40	50.61
397	LF	16' to 18' cut	48	40	56.76
20	LF	18' to 20' cut	58	40	64.27
		8" PVC Gravity Sewer Line (complete in place)			
552	LF	0' to 6' cut	24	38	39.48
276	LF	6' to 8' cut	24	38	40.23
281	LF	8' to 10' cut	28	38	42.18
262	LF	10' to 12' cut	28	38	43.04
244	LF	12' to 14' cut	36	38	46.63
128	LF	14' to 16' cut	44	38	53.63

Quantity	Unit	Description	Low	Second	Third
38	LF	16' to 18' cut	48	38	56.84
68	LF	18' to 20' cut	60	38	61.16
346	LF	20' to 22' cut	60	60	76.18
50	LF	8" Pressure Ductile Iron Pipe, Class 350, for gravity sewer line installed in 14" steel casing pipe under U. S. Highway 70 from manhole to manhole (including all excavation and bedding)	16	50	44.6
45	LF	14" Steel Casing Pipe, 0.250" minimum wall thickness bored or tunneled under U. S. Highway 70 (including all incidentals except carrier pipe)	80	80	154.78
393	LF	6" PVC DR 21 or DR 26 Gravity Sewer Service Line to Grade (complete in place, including clean-out)	12	20	11.29
300	LF	6" PVC DR 21 or DR 26 Gravity Sewer Service Line (complete in place)	14	16	12.7
12	EA	Tees, 8" x 6" for service lines (complete in place)	50	70	40.12
6	EA	Tees, 12" x 6" for service lines (complete in place)	100	150	102.65
2281	LF	12" PVC Sewage Force Main, Class 200, DR21 (complete in place, including connection to existing 12" PVC force main)	16.5	18	15.84
440	LF	8" PVC Sewage Force Main, Class 200, DR21 (complete in place, including all fittings and connections to existing 8" PVC force main and 8" CIP force main)	13	14	15.02
70	LF	8" Pressure Ductile Iron Pipe, Class 350, single gasket seal joint, for sewage force main, installed in 18" steel casing pipe under railroad (complete in place)	16	50	35.63
60	LF	18" Steel Casing Pipe, 0.281 minimum wall thickness, bored or tunneled under railroad, (complete in place, including all incidental except the carrier pipe)	100	80	112.48
12	EA	Standard Manholes (complete in place)	1300	1100	1082.96

Quantity	Unit	Description	Low	Second	Third
86	VF	Manhole Barrel Extension	90	85	106.27
3	EA	Drop Manholes (complete in place)	1650	2000	2276.22
1	EA	Connection of new 12" sewer to existing manhole (complete in place, including coring of manhole, new invert, manhole repairs and all incidentals)	1100	800	2162.99
1	EA	Connection of new 8" sewer to existing manhole (complete in place, including coring of manhole, new invert, manhole repairs and all incidentals)	900	800	2087.44
1	EA	2" Sewage Air and Vacuum Release Valve and Concrete Valve Pit (complete in place)	2600	4800	2314.61
20	CY	Concrete, Class C, for cradles, collars, anchors, and encasements	40	100	137.18
100	CY	Undercutting of Trench	1	1	18.82
100	CY	Crushed Stone for backfill of undercutting	10	10	20.05
1200	CY	Crushed Stone for traffic bound surfacing and/or base course and/or backfill where sewer lines are constructed under existing paved surfaces	12	16	20.05
20	CY	Asphaltic Concrete Pavement	60	150	160.27
100	SY	Bituminous Surface Treatment for Pavement Replacement	0	2	10.46
20	SY	Riprap, dumped (complete in place)	0	10	15.61
20	SY	Riprap, hand placed (complete in place)	0	10	22.21
20	SY	Sodding, hand placed and tamped (complete in place)	0	6	15.59
1	LS	Mill Avenue Sewage Pumping Station, wetwell mounted suction lift sewage pumping station (complete in place, including all equipment, electrical work, all site development, access road, potable water line, potable pump connection manhole and fittings, and appurtenances as shown on the plans and specified, base bid Gorman-Rupp Equipment)	170358	184000	183000

Quantity	Unit	Description	Low	Second	Third
		Alternate using Smith and Loveless Equipment	152358	154000	145000
		Alternate using Usemco Equipment with Fairbanks Morse Equipment	150358		142000
		Total Bid	\$448,790.50	\$500,482.00	\$541,831.05

WASTEWATER

Halls -- SEWER SYSTEM REHABILITATION -- Date Received: 6/01/95 -- Source: J. R. Wauford & Company
 Low Bidder: Boatman Construction Co., Inc.

Quantity	Unit	Description	Low	Second	Third
		Sewer Line Cleaning and Television Inspection, Bid Schedule A			
92	Set-Ups	Mobilization of Television Inspection Equipment over or at a manhole segment on roads, streets, and private driveways (including roadway shoulders)	\$25.00	\$400.00	
26	Set-Ups	Mobilization of Television Inspection Equipment over or at a manhole segment off roads or streets	50	400	
48250	LF	"Slow Pull-Through" Television Inspection and Hydraulic Cleaning, 8" sewers (without sealing, complete with log)	1.5	0.5	
2750	LF	"Slow Pull-Through" Television Inspection and Hydraulic Cleaning, 10" sewers, (without sealing, complete with log)	1.75	0.5	
100	LF	"Slow Pull-Through" Television Inspection and Hydraulic Cleaning, 12" sewers, (without sealing, complete with log)	2	1	
5600	LF	"Slow Pull-Through" Television Inspection and Hydraulic Cleaning 15" sewers, (without sealing, complete with log)	2.5	1	
9650	Joints	Sewer Line Joint Testing of 8" sewer line (complete, including bypass pumping)	7.5	6.25	
550	Joints	Sewer Line Joint Testing of 10" sewer line (complete, including bypass pumping)	7.75	6.5	
20	Joints	Sewer Line Joint Testing of 12" sewer line (complete, including bypass pumping)	8	7	
1120	Joints	Sewer Line Joint Testing of 15" sewer line (complete, including bypass pumping)	10	9	
2350	LF	Heavy cleaning of sewer lines using buckets or power cutting tools to remove roots or debris from 8" and 10" sewer lines	2	1	

Quantity	Unit	Description	Low	Second	Third
290	LF	Heavy cleaning of sewer lines using buckets or power cutting tools to remove roots or debris from 12" and 15" sewer lines	3	3	
46	Set-Ups	Extra set-up charge for re-entering a manhole section on streets, roads, or driveways (including roadway shoulders)	25	400	
13	Set-Ups	Extra set-up charge for re-entering a manhole section off streets and roads	50	400	
100	LF	Temporary Access Road (including all grading and gravel, removal of road, scarifying and seeding)	5	1	
		Total Bid Schedule A	\$190,855.00	\$179,427.50	
		Bid Schedule B - Sealing Using Foam Type Grout			
9650	Joints	Sewer Line Joint Sealing using foam grout on 8" pipeline (including testing and the sealing materials)	6	15	
550	Joints	Sewer Line Joint Sealing using foam grout on 10" pipeline (including testing and the sealing materials)	6.25	20	
20	Joints	Sewer Line Joint Sealing using foam grout on 12" pipeline (including testing and the sealing materials)	6.75	30	
1120	Joints	Sewer Line Joint Sealing using foam grout on 15" pipeline (including testing and the sealing materials)	8.5	40	
		Total Bid Schedule B	\$70,992.50	\$201,150.00	
		Bid Schedule C - Sealing Using Gel Type Grout			
9650	Joints	Sewer Line Joint Sealing using gel grout on 8" pipeline (including testing and the sealing materials)	5	7.5	
550	Joints	Sewer Line Joint Sealing using gel grout on 10" pipeline (including testing and the sealing materials)	5.25	10	

Quantity	Unit	Description	Low	Second	Third
20	Joints	Sewer Line Joint Sealing using gel grout on 12" pipeline (including testing and the sealing materials)	5.75	14	
1120	Joints	Sewer Line Joint Sealing using gel grout on 15" pipeline (including testing and the sealing materials)	6.75	20	
1120		Total Bid Schedule C	\$58,812.50	\$100,555.00	
		Total Bid, Sum of Bid Schedules A plus B	\$261,847.50	\$380,577.50	
		Total Bid, Sum of Bid Schedules A plus C	\$249,667.50	\$279,982.50	

WASTEWATER

Hohenwald -- SEWER SYSTEM REHABILITATION -- Date Received: 4/11/96 -- Source: J.R. Wauford & Company
Low Bidder: W. L. Hailey and Co., Inc.

Quantity	Unit	Description	Low	Second	Third
2790	LF	Clean and Televise existing 6" diameter sewer line to determine general condition of the line and the location of obstructions	\$1.51	\$1.80	\$1.50
23980	LF	Clean and Televise existing 8" diameter sewer line to determine general condition of the line and the location of obstructions	1.41	1.8	2.36
350	LF	Clean and Televise existing 10" diameter sewer line to determine general condition of the line and the location of obstructions	2.11	1.8	2.48
		Total Bid	\$38,763.20	\$48,816.00	\$61,645.80

WASTEWATER

Hohenwald -- LOWER MAIN SEWER EXTENSIONS -- Date Received: 9/17/96 -- Source: GRW Engineers, Inc.
 Low Bidder: Glenn L. Woodall Excavation & Grading, Inc.

Quantity	Unit	Description	Low	Second	Third
2710	LF	8" PVC Gravity Sewer SDR35	24.73	19	27
9	EA	Standard Manhole, 0-6' deep	1200	1660	1300
3	EA	Extra for Manhole Drop Assembly	500	1840	1000
26	VF	Manhole Barrel Extensions	118.85	140	75
10	EA	Sewer Service Connections	400	220	500
1950	LF	4" PVC Sewer Force Main SDR21	6	8.75	6.5
1	EA	Sewage Air Release Valve	2500	3475	1500
1	EA	Force Main Connection to Existing Manhole	300	500	500
5	CY	Concrete Saddles, Anchors, and Encasements	100	110	80
250	LF	Bituminous Concrete Pavement	8	7.84	15
50	LF	Aggregate Surface Pavement	15	14.5	15
225	LF	Steel Casing Pipe, 20" diameter, jacked or bored under highway	120	150	100
20	TONS	Granular Material for Special Pipe Bedding	14	30	15
1	LS	Wastewater Pumping Station	45000	48581	500000
		Total Bid	\$176,438.40	\$184,993.50	\$187,195.00

WASTEWATER

Huntingdon -- COTTON LANE INTERCEPTOR -- Date Received: 8/29/95 -- Source: J.R. Wauford & Company Consulting Engineers
 Low Bidder: Rose Construction, Inc.

Quantity	Unit	Description	Low	Second	Third
		8" Gravity Sewer Line, SDR 35 PVC Pipe (complete in place)			
4386	LF	0' to 6' cut	25.5	22	17.8
2745	LF	6' to 8' cut	28.5	24	19.8
1304	LF	8' to 10' cut	32.5	25	23.8
837	LF	10' to 12' cut	37.5	29	35.8
877	LF	12' to 14' cut	42.5	36	50.8
799	LF	14' to 16' cut	47.5	44	70.8
651	LF	16' to 18' cut	52.5	55	95.8
608	LF	18' to 20' cut	57.5	68	125.8
433	LF	20' to 22' cut	63.5	94	160.8
279	LF	22' to 24' cut	70.5	120	200.8
47	LF	24' to 26' cut	80.5	150	245.8
565	LF	8" Gravity Sewer Line, Class 50, ductile iron pipe with push-on joints, 0' to 6' cut (complete in place)	32	27	31.23
16	LF	8" Gravity Sewer Line, Class 50, ductile iron pipe with push-on joints, 6' to 8' cut (complete in place)	35	29	35.23

Quantity	Unit	Description	Low	Second	Third
200	LF	8" Restrained Joint, Class 50, ductile iron pipe, installed in casing pipe for bored or tunneled encased crossings (complete in place)	20	40	62.5
200	LF	16" O.D. Steel Casing Pipe, 0.250" wall thickness, installed by boring and jacking or tunneling and all incidentals except the ductile iron carrier pipe (complete in place)	235	100	200.7
2337	LF	4" Sewer Force Main, SDR 21 PVC Pipe (complete in place)	5	7	6.15
8	LF	4" Sewer Force Main, Class 51, ductile iron pipe (complete in place)	30	100	57
255	LBS	Ductile Iron Mechanical Joint Fittings (complete in place)	2.25	4	3
48	EA	Standard Manholes, 4' diameter (complete in place)	1100	1200	1300
190	VF	Standard Manhole Barrel Extension, 4' diameter (complete in place)	120	125	120
1	EA	Additional cost (in excess of cost of standard frame and cover) for furnishing and installing a watertight manhole frame and cover in lieu of the standard manhole frame and cover (complete in place)	350	300	480
70	EA	Sewer Service Connections (complete in place, including 8" x 6" sewer service tee, adapters if required, excavation, backfill, 4" cleanout with riser and plug, and all incidentals)	200	300	110
5120	LF	6" Pipe for Sewer Service Connections, SDR 35 PVC, installed vertically or horizontally, (complete in place)	8.5	10	14.3
90	EA	4" Diameter Cleanout with riser and plug (including all incidentals)	50	125	80
30	EA	Adjustment of Building Sanitary Plumbing for connection to pipe for sewer service connections	300	250	400
250	CY	Undercutting and Crushed Stone Backfill for pipeline trench, No. 7 (TDOT)	16	20	29.5
5	CY	Concrete for kickers, cradles, anchors and encasements, Class C	125	150	120
50	SY	Concrete for streets, driveways, and sidewalks, Class A, 6" depth (including reinforcing steel)	10	50	50

Quantity	Unit	Description	Low	Second	Third
1	CY	Concrete for curbs, gutters, and ditch replacement, Class A	600	400	320
1980	CY	Crushed Stone for traffic bound base course and untreated surface on roadways and for unpaved driveway replacement, Class A, Grading D (TDOT)	20	20	35
150	CY	Asphaltic Concrete Pavement for replacement of pavement damaged on driveways and side streets, 3" depth, Grading E (TDOT)	22	30	25
24	SY	Riprap, 18" depth, Class A-1 (TDOT) (complete in place)	27	40	27
110	LF	Temporary Silt Fence with hay or straw bales (complete in place)	5	5	10
1	LS	Creek Crossing from approximate Station 2+25 to approximate Station 3+10 on Sewer Line C	7000	10200	16000
1	LS	Factory Built, Wetwell Mounted Sewage Pumping Station manufactured by Smith and Loveless, Inc. (complete in place, including the wetwell manhole, all equipment, excavation, electrical work, piping, valves, fittings, enclosures, fencing, site development, controls, and other incidental work)	36900	51300	48000
		Total Bid	\$781,985.75	\$794,612.00	\$992,427.98

WASTEWATER

Huntingdon -- WESTWOOD DRIVE SEWERS -- Date Received: 7/9/96 -- Source: J.R. Wauford & Company Consulting Engineers
 Low Bidder: Hughey Construction Co., Inc.

Quantity	Unit	Description	Low	Second	Third
		8" Gravity Sewer Line, SDR 35 PVC pipe (complete in place)			
2704	LF	0' to 6' cut	17	17.5	19.5
1669	LF	6' to 8' cut	19	19	25.3
339	LF	8' to 10' cut	21	21	28.2
152	LF	10' to 12' cut	25	28	28.2
6	LF	12' to 14' cut	40	30	34.8
3481	LF	4" Sewer Force Main, SDR 21 PVC pipe (complete in place)	6	6.75	5.8
2320	LF	2-1/2" Sewer Force Main, SDR 21 PVC pipe (complete in place)	5	5.5	4.35
350	LF	1-1/4" Sewer Force Main, SDR 21 PVC pipe, PVC fittings (complete in place)	4.5	4	4.35
595	LBS	Ductile Iron Mechanical Joint Fittings (complete in place)	5	3.5	4.35
18	EA	Standard Manholes, 4' diameter (complete in place)	1100	1300	1595
20	VF	Standard Manhole Barrel Extension, 4' diameter (complete in place)	120	125	130.5
1	EA	Additional cost for furnishing and installing a water tight manhole frame and cover in lieu of the standard manhole frame and cover, (complete in place, in excess of cost of standard frame and cover.)	300	400	543.75
25	EA	Gravity Sewer Service Connections (complete in place, including 8" by 6" gravity sewer service tee, adapters if required, excavation, backfill, 4" cleanout with riser and plug, and all incidentals)	160	210	159.5

Quantity	Unit	Description	Low	Second	Third
265	LF	6" Pipe for Gravity Sewer Service Connections, SDR 35 PVC, installed vertically or horizontally (complete in place)	16	12.75	18.85
8	EA	Pressure Sewer Service Connections (complete in place, including the 2-1/2" by 2" tee, reducer, thrust blocking, plug and all incidentals)	200	105	210.25
100	CY	Undercutting and Crushed Stone Backfill for pipeline trench, No. 7 (TDOT)	20	25	21.75
5	CY	Concrete for thrust blocks, cradles, anchors and encasements, Class C	150	125	145
20	SY	Replacement Concrete for streets, driveways, and sidewalks, including reinforcing steel, Class A, 6" depth	50	22	87
1	CY	Replacement Concrete for curbs, gutters, and ditch replacement, Class A	250	600	507.5
220	CY	Crushed Stone for traffic bound base course and untreated surface on roadways and for unpaved driveway replacement, Class A, Grading D (TDOT)	18	22	36.25
650	SY	Asphaltic Concrete Pavement for replacement of pavement damaged on streets, roadways, and driveways, Grading E, 3" depth (TDOT)	20	22	14.5
10	SY	Riprap, Class A-1, 18" depth, (TDOT) (complete in place)	25	24	29
500	LF	Temporary Silt Fence with hay or straw bales (complete in place)	4	7.5	4.35
1	LS	Factory Built, Wetwell Mounted Sewage Pumping Station manufactured by Smith and Loveless, Inc. (complete in place, including the wetwell manhole, all equipment, excavation, electrical work, piping, valves, fittings, enclosures, fencing, site development, controls, and other incidental work.)	44000	41263.02	67860
		Total Bid	\$225,424.00	\$234,652.02	\$278,802.25

WASTEWATER

Lafayette -- FLEETWOOD TIIP SANITARY SEWERS PROJECT -- Date Received: 7/26/96 -- Source: Professional Engineering Services, Inc.
Low Bidder: J & S Construction Co.

Quantity	Unit	Description	Low	Second	Third
1	LS	Mobilization	\$28,000.00	\$23,505.50	\$17,000.00
1	LS	Sewage Pump Station, 200 GPM	143400	100000	130000
1	LS	Sewage Pumping Station Renovation	38600	97000	102000
		Gravity Sewer, 8" PVC SDR 26			
1060	LF	0-6'	29.5	24.5	31
895	LF	6-8'	29.5	27.5	34
659	LF	8-10'	34	34.5	38
60	LF	10-12'	38	49	43.5
50	VF	Over 12'	44	69	57
49	LF	8" Ductile Iron Sewer Line, CL51, 0-6' depth	34	39	38
180	LF	8" PVC SDR 26 Gravity Sewer, bored and cased	120	169	116
300	LF	4" PVC SDR 26 Service Line	16	17	22
200	LF	6" PVC SDR 26 Service Line	18	18	24
15	EA	Standard Manhole with frame and cover	1100	1500	1300
4	EA	Extra for Watertight Manhole	320	200	300
15	VF	Standard Manhole Extension	85	125	150

Quantity	Unit	Description	Low	Second	Third
1	EA	8" Drop Manhole Assembly	3200	2500	2000
1	EA	Sampling Manhole	400	350	450
5	EA	8" PVC SDR 26 Stub Out	90	195	400
2	EA	6" PVC SDR 26 Stub Out	80	175	380
5	EA	PVC Service Tee, 8" x 6"	65	100	350
10	EA	PVC Service Tee, 8" x 4"	60	95	330
3100	LF	6" PVC SDR21 Force Main Sewer	13	13.5	12
93	LF	6" PVC SDR21FM Sew Special Trench	18	13.5	10.25
750	TONS	Crushed Stone Trench Backfill	14	11	14.25
20	CY	Undercutting and Stone for UC	10	11	20
580	CY	Rock Excavation	10	10	
40	CY	Concrete, Class C	90	125	120
620	SY	Asphalt Pavement Replacement	16	19	15
18	SY	Concrete Pavement Replacement	24	30	18
1000	UNIT	Seeding	10	5	6
200	LF	Straw Bale Barrier	3	2	3
1500	LF	Silt Fence	1	1.49	2
1	EA	Project Sign	500	400	500
1	LS	Connection to Existing Sewer	1300	2000	500

Quantity	Unit	Description	Low	Second	Third
1	LS	Bore 6" Force Main through box culvert	2800	2900	2800
		Total Bid	\$439,540.50	\$459,675.00	\$487,208.75

WASTEWATER

Oakland -- MCFADDEN ROAD SANITARY SEWER MAIN IMPROVEMENTS -- Date Received: 5/30/96 -- Source: King Engineering Consultants, Inc. -- Low Bidder: G&H Construction Co.

Quantity	Unit	Description	Low	Second	Third
		8" PVC Sewer Main and Bedding			
247	LF	0'-6' Cut	8.39	15.25	20
460	LF	8'-10' Cut	11	20	27.5
528	LF	8" Ductile Iron Sewer Main	13	26.5	47
25	LF	8" Uncased Bore for ductile iron pipe	42.24	50	80
75	LF	4" PVC Sanitary Service	3.75	11.5	10
6	EA	Standard Manhole	900	1000	900
3	VF	Extra Depth Manhole	50	96	90
1	EA	Special Manhole	1450	1100	1000
1	EA	Wye, 8" x 4"	50	47	200
2	EA	8" Stub-out of Manhole	12.5	130	250
2	EA	4" Stub-out of Manhole	12	100	185
1210	LF	Water Jetting	0.83	1.25	0.5
12	CY	Concrete Pier, 18" diameter	916.3	156	200
10	TONS	Roadway Repair, 33C crushed limestone	14	30	25
1.5	TONS	Paving Replacement, hot mix asphalt	50	95	500

Quantity	Unit	Description	Low	Second	Third
2	CY	Concrete Paving Replacement	80	165	250
1	LS	Seeding, Mulching, and Watering	1680	2500	2500
		Total Bid	\$36,487.48	\$43,623.25	\$59,901.00

WASTEWATER

Smith County -- TIIP OVERSTREET-HUGHES COMPANY -- Date Received: 5/31/96 -- Source: Professional Engineering Services, Inc.
Low Bidder: Eatherly Group

Quantity	Unit	Description	Low	Second	Third
8100	CY	Topsoil Stripping and Replacement	\$4.25	\$5.87	
6300	CY	Earth Excavation	2.85	5.87	
14400	CY	Rock Excavation	2.85	5.87	
1	EA	Project Sign	400	300	
1500	LF	Silt Fence for Erosion Control	1.95	3	
300	LF	Straw Bale for Erosion Control	2	1.5	
326	LF	8" PVC SDR26 Gravity Sewer, 0-6' depth	25	23.6	
152	LF	8" PVC SDR26 Gravity Sewer, 6-8' depth	33	28	
40	LF	8" PVC SDR26 Gravity Sewer, 8-10' depth	49	32.75	
300	LF	6" PVC SDR26 Service Line	18	18	
3	EA	Standard Manhole with frame and cover	1575	1500	
10	CY	Concrete, Class C	100	110	
260	UNIT	Seeding, Fertilizer, and Mulch	29	30	
1	EA	PVC Service Tees, 8" x 6"	100	300	
1	EA	8" PVC SDR26 Sewer Stubout	250	400	
3	EA	6" Sewer Line Cleanout	300	200	

Quantity	Unit	Description	Low	Second	Third
860	LF	8" PVC CL200 Waterline	14.25	10.4	
2	EA	Fire Hydrant	1750	2000	
1	EA	Tapping Sleeve and Valve, 6" x 6" x 6"	1750	1700	
		Total Bid	\$149,891.00	\$222,309.60	



Gas

GAS

Clarksville -- TINY TOWN ROAD -- Date Received: 4/25/95 -- Source: City of Clarksville, Office of City Engineer
Low Bidder: Moore Construction Co.

Quantity	Unit	Description	Low	Second	Third
15000	LF	6" Coated Steel, 0.28 wall, gas pipe and fittings	\$12.97	\$12.65	\$15.50
2	EA	6" Gas Valves with box	1170	1165	1450
100	LF	4" Coated Steel, 0.237 wall, gas pipe and fittings	10.37	10	15
1	EA	4" Gas Valves with box	470	460	750
		Extra for uncased gas bore of:			
1	LS	Tiny Town Road at Needmore	2200	2160	1200
1	LS	Clearwater Drive	1530	1520	1000
1	LS	North Henderson Way	2720	2710	1000
1	LS	Greenspoint Drive	1550	1520	1000
1	LS	Tiny Town at Station 248	2180	2160	1200
1	LS	Bluegrass Downs	1450	1840	1000
1	LS	Barkers Mill Road	1610	1210	1000
2	EA	Install pipe insulators provided by city	70	57.5	50
2	EA	Remove and test welds	25		1000
100	TONS	Crushed stone for undercut backfire of gas or water ditch	11.25	12.5	11.15
		Sub-total for gas work	\$212,952.00	\$248,400.00	\$207,890.00

Quantity	Unit	Description	Low	Second	Third
11000	LF	12" Ductile Iron, Class 50, water pipe and fittings	18.93	21	20.3
9	EA	Fire Hydrant assembly with fittings, 6" pipe, valve and box	1541	1487	1825
12	VF	Fire Hydrant barrel extentions	190	60	352.5
4	EA	12" Gate Valve with box	973	895	985
		12" to 6" Connection including tapping valve, sleeve, box, fittings, pipe and pavement repair at:			
1	LS	Clearwater Drive	1600	2200	2625
1	LS	North Henderson Way	1600	2500	2625
1	LS	Barker's Mill Road	1600	2500	2625
		Extra for cased bore of 12" water at:			
1	LS	Clearwater Drive	3360	2925	3995
1	LS	North Henderson Way	6000	5200	7490
1	LS	Barkers Mill	3200	2100	3465
1	LS	Tiny Town Rd.	4800	5775	5875
100	LF	Asphalt Pavement Repair not otherwise listed	18	7.5	31
100	LF	Concrete Pavement Repair not otherwise listed	24	12.5	38
		sub-total for water work	\$254,631.00	\$273,883.00	\$283,495.00

GAS

Bolivar -- HIGHWAY 64 UTILITIES RELOCATION -- Date Received: 8/24/95 -- Source: GRW Engineers, Inc.
Low Bidder: McMillan Construction Co. Inc.

Quantity	Unit	Description	Low	Second	Third
170	LF	6" Steel Gas Line, 0.188 wall, open cut	\$17.00	\$15.00	\$27.18
1100	LF	4" Polyethylene Gas Line, SDR-11, open cut	4.98	6	8.38
4990	LF	3" Steel Gas Line, 0.188 wall, open cut	10.78	13	15.52
190	LF	12" Steel Casing Pipe, 0.250 wall, open cut	30	35	72
780	LF	6" Steel Casing Pipe, 0.250 wall, open cut	15	25	36.2
2	EA	Connections to existing 6" Steel Gas Line, including valve and box	5000	7000	10010
4	EA	Connections to existing 4" Polyethylene Gas Line, including valve and box	1000	1650	1290
6	EA	Connections to existing 3" Steel Gas Line, including valve and box	3500	4000	6000
		Total Bid	\$114,560.00	\$144,770.00	\$194,379.40

GAS

**Maury City -- 1994 GAS SYSTEM EXPANSION -- Date Received: 2/23/95 -- Source: King Engineering Consultants, Inc.
Low Bidder: Johnson & Johnson, Inc.**

Quantity	Unit	Description	Low	Second	Third
		Steel Distribution Pipework:			
		Bypass cut and plug existing steel gas main for installation of tee or valve			
4	EA	3" Main	\$2,752.22	\$1,249.30	\$5,600.00
2	EA	1" Main	0	413.92	0
3	EA	3/4" Main	0	409.71	0
3	EA	High Pressure Regulator Station	8712	15895.96	12000
1	EA	3" Steel Tapping Tee and Valve	400	916.58	2200
1	EA	2" Steel Tapping Tee and Valve	100	546.47	275
700	LF	4" Underground Steel Gas Main	18.99	10.48	9.64
200	LF	3" Underground Steel Gas Main	18.22	9.27	7.27
8	EA	3" Underground Steel Plug Valve and Box	314.73	696.25	450
1	EA	2" Underground Steel Plug Valve and Box	250.42	571	320
3	EA	Kill Existing 1" Gas Main (fill with water)	50	390	170
		Plastic Distribution Pipework:			
48515	LF	6" Plastic Gas Main, SDR-11	7.87	8.03	8.3
53150	LF	4" Plastic Gas Main, SDR-1	4.63	3.48	3.9

Quantity	Unit	Description	Low	Second	Third
8245	LF	3" Plastic Gas Main, SDR-11	3.35	2.39	3
8935	LF	2" Gas Main, SDR-11	2.3	1.6	2.1
9	EA	6" Plastic Plug Valve and Box	680.47	1530.72	1110
10	EA	4" Plastic Plug Valve and Box	462.47	771.71	500
3	EA	3" Plastic Plug Valve and Box	298.97	594.93	280
1	EA	2" Plastic Plug Valve and Box	156.25	404.42	210
2	EA	1" Plastic Plug Valve and Box	90.85	279.18	125
30	EA	Warning Markers	28.48	39.74	50
120000	LF	Tracer Warning Tape	0	0.08	0.04
2	EA	1" Service Tapping Tee and Valve	35.63	81.89	45
164	EA	3/4" Service Tapping Tee and Valve	38.94	81.19	35
164	EA	3/4" Service Riser and Shut-off Valve and Fitting	39.53	108.63	50
21320	LF	3/4" SDR-11 Service Pipe	1.9	1.25	1.74
142000	LF	Tracer Wire, No. 12	0	0.16	0.09
		Steel and Plastic Distribution System:			
		Uncased Road and Driveway Bore for:			
300	LF	6" Main	14	39	17
650	LF	4' Main	10	23.4	13
100	LF	3" Main	8	19.5	10

Quantity	Unit	Description	Low	Second	Third
100	LF	2" Main	5	15.6	9
210	LF	8" Steel Casing and Bore, Intermediate Plastic Pipe and Vents under highway	38.07	75.21	63.1
250	LF	Uncased Bore for 3/4" Service Pipe	18	11.05	6
		Galvanized Corrugated Steel Pipe			
36	LF	30" diameter	14.81	25.49	42.25
30	LF	24" diameter	11.32	20.44	33.5
24	LF	18" diameter	9.41	16.39	25.3
		Flare End Section for Galvanized Corrugated Pipe			
2	EA	30" diameter	215.82	282.35	430
2	EA	24" diameter	129.17	183.85	260
2	EA	18" diameter	76.25	156	190
60	TONS	Paving Replacement, hot mix asphalt	20	97.5	100
300	TONS	33C Crushed Limestone IP	12.9	14.57	13.7
200	TONS	Riprap	24.35	22.69	23.3
		Formed Concrete Replacement			
20	CY	Class A for Piers and Other Structures Dug and Formed	0	120	150
100	SY	Class C for Driveway and Street Repairs	0	10.92	20
10	AC	Seeding, Mulching, Watering, and Landscaping	300	300	600
15	EA	Concrete Pads Around Valve Boxes	40	39	35

Quantity	Unit	Description	Low	Second	Third
16	EA	Extra charge for installing service pipe to customer after initially authorized service pipes have been installed to 1000 feet beyond the new service location.	50	65	200
		Total Bid	\$840,631.25	\$871,963.91	\$878,051.00

GAS

Pikeville -- GAS SYSTEM IMPROVEMENTS -- Date Received: 11/26/96 -- Source: Stigall Engineering Associates, Inc.

Low Bidder: Boots Smith Corporation

Quantity	Unit	Description	Low	Second	Third
27000	LF	6" Steel Gas Line, open cut	\$10.44	\$12.95	\$15.00
160	LF	Concrete Encasement	13	14.2	10
200	LF	6" Steel Gas Line, punched under roadway	45	35	20
2	EA	6" Steel Valve	250	2100	1800
2	EA	Connect to existing 3" steel gas line, hot tap	800	3875	1500
11700	LF	2" Polyethylene Gas Line, open cut	2.7	5.3	3.75
100	LF	2" Polyethylene Gas Line, punched under paved area	10	16.45	12
1	EA	Connect to existing 2" steel gas line, hot tap	800	1530	400
4	EA	2" Polyethylene Valve	100	550	460
1	EA	2" Steel Valve	250	800	600
1	EA	Connect to existing 1-1/2" steel gas line, hot tap	500	1500	250
1500	LF	3/4" Polyethylene Service Line, open cut	1.75	2.4	3.25
700	LF	3/4" Steel Service Line, open cut	1.75	5.25	5
15	EA	Polyethylene Service Assembly	100	410	50
8	EA	Steel Service Assembly	150	570	60
1000	LF	Gravel Driveway Replacement	1.5	1.55	5

Quantity	Unit	Description	Low	Second	Third
1	LS	Remove Existing Regulator	250	1835	1000
1	LS	Regulator Station	1000	8050	4500
		Total Bid	\$338,900.00	\$469,977.00	\$485,470.00

GAS

Springfield -- SEMI ANNUAL CONTRACT -- Date Received: 11/7/96 -- Source: Stigall Engineering Associates, Inc.
Low Bidder: Precision Utility Contractors

Quantity	Unit	Description	Low	Second	Third
5000	LF	4" Polyethylene Line, open cut	\$5.25	\$5.00	\$5.95
5000	LF	3" Polyethylene Line, open cut	4.75	4.5	5.25
16000	LF	2" Polyethylene Line, open cut	4.2	3.75	3.95
800	LF	1" Polyethylene Line, open cut	3.55	4	3.55
6000	LF	3/4" Steel Line, open cut	5.4	4	4.1
17000	LF	3/4" Polyethylene Line, open cut	3.4	3.25	3.5
300	LF	Unencased Bore for 4" carrier pipe	20	20	19.2
100	LF	Unencased Bore for 3" carrier pipe	15	20	19.2
300	LF	Unencased Bore for 2" carrier pipe	12	20	14.4
800	LF	Unencased Bore for 3/4" carrier pipe	12	20	14.4
3	EA	4" Polyethylene Valve	550	550	515.2
3	EA	3" Polyethylene Valve	410	450	404.5
10	EA	2" Polyethylene Valve	410	400	329
100	EA	Type A Service	175	280	192
5	EA	Type B Service	340	450	467.7
20	EA	Type C Service	120	230	199.15

Quantity	Unit	Description	Low	Second	Third
5	EA	Type D Service	120	200	170.65
3000	TONS	Gravel Driveway Replacement	7.25	7	11.75
1000	LF	Rock Excavation	7	5	10.5
1000	LF	Insert 1/2" Polyethylene Line through existing pipe	3.5	4	2.55
		Total Bid	\$292,370.00	\$292,800.00	\$310,383.90

Sanitary Landfills



SANITARY LANDFILLS

Chattanooga -- MODIFICATIONS TO SUMMITT LANDFILL -- Date Received: 6/27/95 -- Source: Consolidated Technologies, Inc.
Low Bidder: Construction & Improvement Specialty Co., Inc.

Quantity	Unit	Description	Low	Second	Third
600	LF	Temporary Silt Fence	2.28	2	2
2	EA	Rock Check Dams	2284	400	4700
6260	LF	HDPE Perforated Corrugated Leachate Collection Pipe, 12" diameter, including crushed stone backfill and fittings	32.06	35.22	16.18
3	EA	Liner Penetration for 12" pipe, including boot and accessories	562.5	500	425
13	EA	Clean out Assembly, including 12" HDPE smooth pipe riser, flange, cover, and bolts	302.26	1200	596.12
20	LF	HDPE Gas Collection Pipe, 4" diameter, including fittings and tie-in to existing pipe	66.08	120	51.82
		HDPE Dual Wall Containment Pipe, 18"/24"			
350	LF	0' to 6.0' deep	99.53	113	91
165	LF	6.1' to 8.0' deep	100.67	116	96
20	LF	8.1' to 10.0' deep	102.95	120	101
		New HDPE Dual Containment Manholes, 48"/54" diameter			
2	EA	0' to 6.0' deep	6058	6700	6346.2
1	EA	6.1' to 8.0' deep	6542	7300	7252
1	EA	8.1' to 10.0' deep	7035	7700	7787

Quantity	Unit	Description	Low	Second	Third
68800	CY	Construction of 2.0' compacted clay layer from on-site sources, including clearing, grubbing, and temporary seeding of the borrow area	4.57	3.97	7.78
1	LS	Mobilization of Installation Contractor to Landfill	15073	24400	25000
929000	SF	Geosynthetic Clay Liner	0.17	0.16	0.18
929000	SF	Geomembrane Liner	0.16	0.18	0.17
929000	SF	Nonwoven Geotextile Fabric, 8 ounces	0.06	0.07	8
3800	LF	Perimeter Anchor Trench and Backfill	4.34	3	12
2010	LF	Anchor Trench on Terraces, including welding overlap	3.43	3	12
1861	CY	Furnish and install crushed stone drainage layer material on terraces	24.97	32	40.09
2010	LF	Furnishing and installation of 60 mil HDPE flap on terraces	16.31	15	17.29
157500	SF	Furnishing and installation of 6 mil HDPE plastic cover drainage layer, including anchors	0.103	0.2	0.15
1	LS	Submittal of final field testing documentation and record drawings	1688	35.000.00	27000
22284	CY	Furnishing and installation of 12" crushed stone drainage layer	22.06	25.78	35.17
602000	SF	Furnishing and installation of 6-ounce nonwoven geotextile fabric	0.12	0.15	0.13
1	LS	Demobilization of installation contractor from landfill	11419	24400	1
1	LS	Furnishing and installation of two groundwater monitoring wells (complete in place)	10615	10132	12032
		Total Bid	\$1,690,975.24	\$1,882,838.72	\$2,262,849.83

SANITARY LANDFILLS

Chattanooga -- 36th STREET CLASS IV LANDFILL CLOSURE CONSTRUCTION -- Date Received: 4/04/96 -- Source: City of Chattanooga
Low Bidder: Stein Construction Co., Inc.

Quantity	Unit	Description	Low	Second	Third
1	LS	Site Preparation, involving all clearing and grubbing, slope preparation, cut and fill of on-site material and grading of access roads.	\$187,871.00	\$50,000.00	\$176,726.00
12000	CY	18" Infiltration Layer on outside perimeter side slope with select earth backfill (complete in place, including borrow, haul, placement and compaction)	5.1	10	5.8
1500	CY	Unclassified Backfill with common earth backfill, required from off-site sources (complete in place, including borrow, haul, placement, and compaction.	5.1	8	7
270	TONS	Riprap for rock filter dams, ditch, lining, or check dams	13.5	50	40
28700	CY	12" Protective Vegetation Layer (complete in place, including borrow, haul, placement, compaction and sludge admix)	5.1	8.5	8
500	LF	Silt Fence	4	10	10
360	LF	12" Corrugated Polyethylene Slope Drain	4.9	30	21.2
20	ACRE	Grassing, including bed preparation, seeding, fertilizing, and mulching	1150	1600	1500
		Total Bid	\$433,500.00	\$487,250.00	\$539,858.00

SANITARY LANDFILLS

Dekalb County -- LANDFILL CONTRACT 1 -- Date Received: 9/29/95 -- Source: Professional Engineering Services, Inc.
Low Bidder: J & H Construction

Quantity	Unit	Description	Low	Second	Third
1	LS	Connection of existing Leachate Lines to Pump Station, bypassing existing tanks	\$10,000.00		
1	LS	Leachate Pumping Station, 135 GPM	95000		
1	EA	HDPE Leachate Collection Manhole 4'-0"	5000		
408	LF	6" SDR 17 HDP in 10" SDR17 HDPE Gravity Leachate Line	125		
560	LF	4" SDR17 HDP Leachate Force Main Line	60		
2	EA	4" Gate Valve	3500		
215	CY	4000 PSI Concrete for Leachate Storage Basin	200		
15830	LBS	Reinforcing Steel Bars, 60 KSI	0.65		
570	TONS	Machined Riprap, Class B	15		
60	LF	24" Reinforced Concrete Pipe Culvert, Class III	75		
1	EA	Temporary Sediment Trap as detailed in plans	10000		
		Total Bid	\$277,939.50		

SANITARY LANDFILLS

**Dekalb County -- LANDFILL CONTRACT II -- Date Received: 11/10/95 -- Source: Professional Engineering Services, Inc.
Low Bidder: Phillips & Jordan, Inc.**

Quantity	Unit	Description	Low	Second	Third
1	LS	Mobilization	\$30,000.00		
3000	CY	Placement, compaction and finishing	14		
162068	SF	HDPE 60 Mil Geomembrane LF Liner	0.6		
162068	SF	Geonet Drainage Layer	0.8		
530	LF	Perforated HDPE Leachate Collection Line	29		
2	EA	Leachate Collection Clean-Out	1350		
6000	CY	Placement and finishing of 1" protective soil	5.2		
		Total Bid	\$348,165.20		

SANITARY LANDFILLS

Huntingdon -- GROUND WATER MONITORING SYSTEM IMPROVEMENTS -- Date Received: 3/30/95 -- Source: J. R. Wauford & Co. Consulting Engineers -- Low Bidder: Wilson Well Co. Inc.

Quantity	Unit	Description	Low	Second	Third
1	LS	Mobilization and set-up of drilling equipment for drilling all monitoring wells, complete including demobilization, remobilization after drilling Well No. 2A and all incidentals	\$1,725.00	\$1,000.00	\$7,000.00
150	VF	Drilling of bore hole using hollow-stem auger or direct mud rotary drilling (complete in place)	6.5	20	20
135	LF	Casing Pipe, 2" diameter PVC schedule 40 wall thickness (complete in place)	2.95	2	15
133	VF	Grouting of annular space (complete in place)	3.45	6	15
1	EA	Furnishing and installing the protective cover, well cap, surface seal, well screen, filter pack, and all appurtenances and for development of Well No. 2A (complete in place) Drilling and installing casing pipe and grouting annular space are not included in this item	2265	1200	2500
30	VF	Closure of existing Well No. 2 (complete in place)	14.5	5	500
1	LS	Development of existing Well No. 3	175	1200	1500
		Total Bid	\$6,432.10	\$7,618.00	\$33,020.00

SANITARY LANDFILLS

Jackson-Madison County -- LANDFILL-CELL 7A -- Date Received: 9/1/94 -- Source: TLM Associates
Low Bidder: Clifton Construction Co.

Quantity	Unit	Description	Low	Second	Third
1	LS	Mobilization/demobilization	\$50,000.00	\$50,000.00	\$50,000.00
125000	CY	Unclassified Excavation	1.8	1.45	1.6
26100	CY	Clay Sub-Liner (in place)	2.5	3.85	3
1	LS	Anchor Trenches	7000	5000	10000
1	LS	Dewatering and Maintenance	18000	20000	20000
25000	TONS	Sand Drainage Layer	8.2	8.5	8.5
2500	CY	Protection Soil	1.7	3.85	4
		Geosynthetics			
367320	SF	60 mil HDPE (smooth)	0.41	0.6	0.45
26250	SF	60 mil HDPE (textured)	0.52	0.75	0.6
322760	SF	Geotextile	0.07	0.15	0.1
26250	SF	Geocomposite	0.41	0.65	0.5
		Leachate Collection System			
1	LS	Pipe Penetration Structure	1500	800	2000
5550	LF	Perforated Collection Pipe	15	10	24
150	LF	Solid Collection Pipe	15.5	12	20

Quantity	Unit	Description	Low	Second	Third
20	LF	Clean-Out Pipe	40	60	50
1	LS	Connection to Existing Manhole	1880	1500	2000
		Miscellaneous			
5	ACRE	Seeding and Mulching	1000	1000	1200
1600	LF	Silt Fence	1.4	2	1
200	EA	Hay/Straw Bales	4.5	6	5
		Other			
1	LS	Allowance	\$30,000.00	\$30,000.00	\$30,000.00
		Total Bid	\$900,001.90	\$984,616.00	\$987,045.00

SANITARY LANDFILLS

**Macon County -- TRANSFER STATION -- Date Received: 3/07/96 -- Source: Professional Engineering Services, Inc.
Low Bidder: Hodges Group**

Quantity	Unit	Description	Low	Second	Third
1	LS	Transfer Station - 30 tons per day	\$139,900.00	\$161,900.00	\$164,300.00
		Total Bid	\$139,900.00	\$161,900.00	\$164,300.00

SANITARY LANDFILLS

Rhea County -- LANDFILL CLASS III -- Date Received: 5/29/96 -- Source: Professional Engineering Services, Inc.
Low Bidder: Blalock & Sons

Quantity	Unit	Description	Low	Second	Third
1	LS	Mobilization of forces and equipment	\$15,000.00	\$296,000.00	\$5,000.00
1	LS	Erosion Control Maintenance	7000	20000	5000
400	BALE	Baled Hay or Straw Erosion Checks	5	10	5
2000	LF	Temporary Silt Fence for Erosion Control	2	5.5	1.5
1	LS	Stormwater Trickle Tube and Inlet Piping	8000	15000	15000
200	LF	Stormwater Piping, 36" diameter HDPE SDR21	100	200	111.4
8825	TONS	Machined Riprap, Class A-1	10	12	12.5
1089	UNIT	Seeding, Fertilizer, and Mulch	18	30	33.15
1220	TONS	Machined Riprap, Class C	11	12	15
13	CY	Concrete, Class A, 3000 PSI	500	500	150
1	EA	HDPE Cell Drain	4000	2000	3500
300	LF	Storm Sewer ,12" diameter HDPE SDR26	15	60	37
25	LF	Concrete Pipe, 36" diameter, Class III	100	100	73.25
1	EA	Removal of CMP underdrain and backfilling with crushed stone	1000	500	725
2933	TONS	Mineral Aggregate Road Base, Grading D, Type A	8.2	12	10.45
583	TONS	Asphalt Pavement, Grade C	35	45	41.8

Quantity	Unit	Description	Low	Second	Third
105000	CY	Topsoil Stripping, removal and replacement	1	1.1	2.25
632000	CY	Earth excavation to lines and grade	1.4	1.1	1.5
4	EA	Groundwater Monitoring Wells	3200	4000	3800
280	VF	Groundwater Monitoring Wells, extra vertical feet of drilling	37	40	31.95
2	EA	Methane Gas Sampling Wells	4500	5000	8226
1	EA	12" Gate Valve	1200	1000	1000
		Total Bid	\$1,263,387.60	\$1,479,041.00	\$1,516,966.35

SANITARY LANDFILLS

Smith County -- LANDFILL CONTRACT I -- Date Received: 8/11/95 -- Source: Professional Engineering Services, Inc.
Low Bidder: Pedigo Construction

Quantity	Unit	Description	Low	Second	Third
103590	CY	Earth Excavation	\$1.60	\$1.45	\$1.46
7650	CY	Topsoil Replacement	2	2	1.5
100	BALE	Baled Hay or Straw Erosion Checks	4	5	5
1	LS	Erosion Control Maintenance	3000	5000	14000
1200	LF	Temporary Silt Fence	2	2	3
40	LF	18" CMP	23.81	20	30
120	LF	30" CMP	28.4	40	42
90	LF	CM Arch Pipe 24" x 36"	28.42	50	36
1	LS	Stormwater Outfall Structure	18750	45000	45000
280	TN	Machined Riprap, Class C	15	12	21
115	UNIT	Seeding, Fertilizer and Mulch	40	25	32
		Total Bid	\$221,312.20	\$234,740.50	\$244,856.40

SANITARY LANDFILLS

Smith County -- LANDFILL CONTRACT II -- Date Received: 2/06/96 -- Source: Engineering Services, Inc.
Low Bidder: Bob Crockett Construction Co.

Quantity	Unit	Description	Low	Second	Third
84928	CY	Earth Excavation	\$1.68	\$1.85	\$2.19
19771	CY	Recompacted Clay Liner	2.68	3.54	3.13
9885	CY	Protective Soil Material	2.68	2.64	3.75
2455	TONS	Crushed Aggregate Base Stone	8.5	11	13.25
295885	SF	Geocomposite Drainage Fabric	0.74	0.58	0.93
293301	SF	60 Mil Density Polyethylene	0.51	0.57	0.51
72	LF	6" HDPE Solid Leachate Collection	9.15	25	15.1
995	LF	6" HDPE Perforated Leachate Collection	9.35	29.3	12.72
774	LF	6" HDPE Solid Leachate Pipe	30	34	34.12
1	EA	4'-0" Diameter HDPE Manhole - 0'-6'	4500	6500	5.808.00
2	EA	4'-0" Diameter HDPE Manhole - 6'-8'	4650	6893	6037
2	EA	6" HDPE Wye-Tee Fitting	100	500	82
4	EA	6" HDPE Clean-Out Fitting	250	420	123
2	EA	6" HDPE Fusion Weld Connection	350	1000	819.5
1	LS	Groundwater Monitoring Well No. 3	1750	1900	4375

Quantity	Unit	Description	Low	Second	Third
1	LS	Groundwater Monitoring Well No. 5	2400	1900	4375
1	LS	Groundwater Monitoring Well No. 6	2400	1900	4375
100	LF	Groundwater Monitoring Well, extra drilling	20	50	22.5
1	EA	Methane Sampling Well No. 1	2400	3260	8196
1	EA	Methane Sampling Well No. 2	2400	3260	8196
1	LS	Leachate Storage Lagoon	110000	160000	150000
1	LS	Erosion Control Maintenance	5000	71354	4590
		Total Bid	\$788,795.08	\$949,811.91	\$988,916.09

SANITARY LANDFILLS

**South Fulton -- FINAL CLOSURE SANITARY LANDFILL -- Date Received: 8/6/96 -- Source: J. R. Wauford & Co. Consulting Engineers, Inc.
Low Bidder: H & S Excavating, Inc.**

Quantity	Unit	Description	Low	Second	Third
1	LS ¹	For furnishing all materials and equipment and performing all labor necessary for final closure construction (complete, including all incidentals and all other work under this contract)	\$530,000.00	\$695,000.00	
5	CY	Common Excavation (unclassified)	1.4	2	
5	LF	Temporary Silt Fence with straw bales	2.5	2	
5	CY	Riprap, Class A-1 (TDOT)	25	18	
		Total Bid	\$530,144.50	\$695,110.00	

1.Final Cover System utilizing on-site soil and topsoil with GCL.

MTAS Mission Statement

The Municipal Technical Advisory Service (MTAS) was created in 1949 by the state legislature to enhance the quality of government in Tennessee municipalities. An agency of The University of Tennessee's Institute for Public Service, MTAS works in cooperation with the Tennessee Municipal League and affiliated organizations to assist municipal officials.

By sharing information, responding to client requests, and anticipating the ever-changing municipal government environment, MTAS promotes better local government and helps cities develop and sustain effective management and leadership.

MTAS offers assistance in areas such as accounting and finance, administration and personnel, fire, public works, law, ordinance codification, communications, and wastewater management. MTAS houses a comprehensive library and publishes numerous documents annually.

All MTAS publications are free to Tennessee city, county, state, and federal officials. There is a charge for all private sector requests. This report is \$25.

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