

FAX



LAW
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Date 7/28/97
 Number of pages including cover sheet 2

To: John Lane

From: Jeff Abston

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REMARKS:

- Urgent For your review Please reply by Please comment

Lynn,
 Here is Law's proposal for the two bridges. This is for 14 borings. The cost for the Emory bridge was \$45,108. (12 borings) Let me know if you want me to have them submit a formal proposal including scope. Thank you.

- Original document will follow by mail. No original being sent.

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TABLE I

| Professional Services* | | | | | | |
|--|--------------------|------------|---------|---------|--------------|-----------------|
| Description | Classification No. | Hours | Rate | Burden | Billing Rate | Cost |
| Project Administration | Principal Level II | 3 | \$30.34 | \$52.49 | \$82.97 | \$249 |
| Data Analysis/Report Preparation | Principal Level II | 20 | \$30.34 | \$52.49 | \$82.92 | \$1,658 |
| Data Analysis/Report Preparation - Review | Senior Engineer I | 30 | \$19.14 | \$33.11 | \$52.25 | \$1,568 |
| Data Analysis/Report Preparation | Project Engineer | 60 | \$18.35 | \$31.75 | \$50.10 | \$3,006 |
| Data Analysis/Report Preparation | Word Processor | 15 | \$10.50 | \$18.20 | \$28.66 | \$430 |
| Data Analysis/Report Preparation | Draftperson | 15 | \$10.50 | \$18.20 | \$28.66 | \$430 |
| Subtotal Labor | | | | | | \$7,341 |
| Travel Expenses | | | | | | |
| Description | Units | Rate | Cost | | | |
| Expenses (includes transportation to and from site, per diem in accordance with TVA allowances, etc.) | 1 | \$1,000.00 | \$1,000 | | | |
| Subtotal Travel Expenses | | | | | | \$1,000 |
| Drilling | | | | | | |
| Description | Units | Rate | Cost | | | |
| Mobilization and demobilization of drilling equipment | 2 | \$300.00 | \$600 | | | |
| Mobilization of support truck | 2 | \$75.00 | \$150 | | | |
| Mobilization of barge for drilling | 1 | \$3,650.00 | \$3,650 | | | |
| Auger boring in overburden soil, 3-inch I.D., 0 to 50 feet. | 160 | \$5.50 | \$880 | | | |
| Rock Coring | 80 | \$25.00 | \$2,000 | | | |
| Coring setup charge, per boring | 4 | \$100.00 | \$400 | | | |
| Rock core boxes | 12 | \$12.00 | \$144 | | | |
| Installation of temporary casing through soil, NW casing | 160 | \$3.50 | \$560 | | | |
| Time rate for drill crew and equipment | 20 | \$125.00 | \$2,500 | | | |
| Support truck (per day) | 5 | \$35.00 | \$175 | | | |
| Barge drilling - time rate for crew and equipment | 60 | \$150.00 | \$9,000 | | | |
| Crew daily trip charge, to and from site | 5 | \$75.00 | \$375 | | | |
| Per diem and lodging in accordance with TVA allowances | 10 | \$250.00 | \$2,500 | | | |
| Standard penetration test in conjunction w/boring, N, <50 | 50 | \$17.50 | \$875 | | | |
| Undisturbed sample Shelby tube, 3-inch | 10 | \$40.00 | \$400 | | | |
| Grouting Boreholes | 540 | \$5.50 | \$2,970 | | | |
| Crane to load and unload rig onto barge | 1 | \$2,000.00 | \$2,000 | | | |
| Support truck (for dozer, mobilization) | 1 | \$75.00 | \$75 | | | |
| Dozer or backhoe mobilization | 1 | \$375.00 | \$375 | | | |
| Bulldozer with operator, per hour | 24 | \$80.00 | \$1,920 | | | |
| Subtotal Drilling | | | | | | \$31,549 |
| Laboratory Testing | | | | | | |
| Items | Units | Rate | Cost | | | |
| Natural Moisture Content | 20 | \$8.00 | \$160 | | | |
| Atterberg Limits tests | 8 | \$40.00 | \$320 | | | |
| Unconfined Compression w/stress-strain plot | 6 | \$100.00 | \$600 | | | |
| Unconfined Strength of Rock Core | 6 | \$150.00 | \$900 | | | |
| Consolidation tests | 4 | \$325.00 | \$1,300 | | | |
| Unit Weight & Natural Moisture Content | 6 | \$35.00 | \$210 | | | |
| Subtotal Laboratory Testing | | | | | | \$3,490 |
| Subtotal Proposal (Labor, Expenses, and Field Equipment and Laboratory Testing) | | | | | | \$43,380 |
| Fixed Fee at 6% (Applied to Labor Only) | | | | | | \$440 |
| Total Proposal Estimated Cost | | | | | | \$43,820 |
| *The labor and indirect rates proposed are consistent with the rates present for Law Environmental, Inc. in our existing contract. | | | | | | |