

P.O. Box 334
~~433 Main Street~~
Paris, Kentucky 40362

Dorothy Jo Mastin
Attorney at Law

Office: 859-987-9995

July 8, 2010

Mr. Jeff Derouen, Executive Director
Public Service Commission
211 Sower Blvd.
Frankfort, KY 40602

ATT: Teresa Webber

Dear Mr. Derouen:

2010-00289

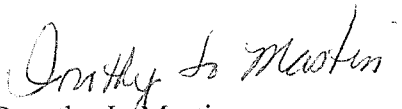
I have spoken with the engineer who is in charge of this project (Mark Askin of Strand and Associates) and he is sending you an original and three copies of the supporting documentation prepared to support our Application of Convenience and Necessity which was previously submitted to your office. I am also enclosing one copy of this documentation with this letter which I received from Mr. Askin on Tuesday.

I am directing this to Ms. Webber's attention since she advised me on how to proceed further in pursuit of your organizations approval of our application.

Since the Board of Directors of Harrison County Water is anxious to proceed as quickly as possible with this project, I am asking for PSC approval as quickly as this matter can be expedited.

Thank you for your assistance. If there are questions, please telephone me at 859-987-2145 or fax me at 859-987-2147 or e-mail me at Luciuslaw @ AOL.com.

Sincerely,


Dorothy Jo Mastin
Legal Counsel-Harrison County Water

djm

cc-E. Scruggs-RD-Mark Askin-Strand



Transmittal Letter

Waterfront Plaza
Suite 710
325 West Main Street
Louisville, KY 40202
Phone: 502-583-7020
Fax: 502-583-7026

Office Locations

Madison, WI
Joliet, IL
Lexington, KY
Louisville, KY
Mobile, AL
Columbus, IN
Columbus, OH
Indianapolis, IN
Milwaukee, WI
Cincinnati, OH
Phoenix, AZ

www.strand.com

To:	Dorothy Jo Mastin		
	P.O. Box 334		
	Paris, KY 40361		
From:	Mark C. Askin		
Date:	July 2, 2010	Project No.:	5224.236
Attention:	Dorothy Jo Mastin		
Re:	HCWA Phase 10		

- WE ARE SENDING YOU:
- | | | |
|---|---------------------------------------|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Enclosed | <input type="checkbox"/> Under Separate Cover |
| <input type="checkbox"/> Specifications | <input type="checkbox"/> Change Order | <input type="checkbox"/> Copy of Letter |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Drawings | <input type="checkbox"/> Samples |

Copies	Date	No.	Description
1	07/02/10	1	Copy of PER, FER, RD Concurrence, RD Letter of conditions, and Bid Tabs.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|--|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit ____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return ____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Other _____ | |

Remarks: Dorothy Jo,

See the enclosed as discussed.

Thanks

Signed:
Mark Askin

Copy to: Danny Northcutt, HCWA
File



**United States Department of Agriculture
Rural Development
Kentucky State Office**

June 24, 2010

SUBJECT: Harrison County Water Association
Phase 10 Water Improvements
Contract Award Concurrence

TO: Area Office
Williamsburg, Kentucky

Based on the bids received and the recommendation of the consulting engineer, Rural Development concurs in the award of subject contract to the low bidder, Southern Backhoe, Inc., in the amount of \$1,606,588.00.

If you have any questions, please contact Julie Anderson, State Engineer, at (859) 224-7348.

THOMAS G. FERN
State Director
Rural Development

cc: Strand Engineers
Louisville, Kentucky

771 Corporate Drive • Suite 200 • Lexington, KY 40503
Phone: (859) 224-7300 • Fax: (859) 224-7425 • TDD: (859) 224-7422 • Web: <http://www.rurdev.usda.gov/ky>

Committed to the future of rural communities.

"USDA is an equal opportunity provider, employer and lender."
To file a complaint of discrimination write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD).



United States Department of Agriculture
Rural Development
Kentucky State Office

July 17, 2008

William R. Toadvine, President
Harrison County Water Association, Inc.
P.O. Box 215
Cynthiana, Kentucky 41031

Dear Mr. Toadvine:

This letter establishes conditions which must be understood and agreed to by you before further consideration may be given to the application. The loan and grant will be administered on behalf of the Rural Utilities Service (RUS) by the State and Area office staff of USDA Rural Development. Any changes in project cost, source of funds, scope of services or any other significant changes in the project or applicant must be reported to and approved by USDA Rural Development, by written amendment to this letter. Any changes not approved by Rural Development shall be cause for discontinuing processing of the application. It should also be understood that Rural Development is under no obligation to provide additional funds to meet an overrun in construction costs.

This letter is not to be considered as loan and grant approval or as a representation as to the availability of funds. The docket may be completed on the basis of a RUS loan not to exceed \$885,000; a RUS grant not to exceed \$295,000; and a Kentucky HB 206 grant in the amount of \$820,000.

If Rural Development makes the loan, the interest rate will be the lower of the rate in effect at the time of loan approval or the rate in effect at the time of loan closing, unless the applicant otherwise chooses. The loan will be considered approved on the date a signed copy of Form RD 1940-1, "Request for Obligation of Funds," is mailed to you.

Please complete and return the attached Form RD 1942-46, "Letter of Intent to Meet Conditions," if you desire that further consideration be given to your application.

The "Letter of Intent to Meet Conditions" must be executed within three weeks from the date of this letter or it becomes invalid unless a time extension is granted by Rural Development.

If the conditions set forth in this letter are not met within 240 days from the date hereof, Rural Development reserves the right to discontinue the processing of the application.

In signing Form RD 1942-46, "Letter of Intent to Meet Conditions," you are agreeing to complete the following as expeditiously as possible:

771 Corporate Drive • Suite 200 • Lexington, KY 40503
Phone: (859) 224-7336 • Fax: (859) 224-7444 • TDD: (859) 224-7422 • Web: <http://www.rurdev.usda.gov/ky>

Committed to the future of rural communities.

"USDA is an equal opportunity provider, employer and lender."
To file a complaint of discrimination write USDA, Director, Office of Civil Rights,
1400 Independence Avenue, SW, Washington, DC 20250-9410
or call (800) 795-3272 (voice) or (202) 720-6382 (TDD)

Harrison County Water Association

Page 2

1. Number of Users and Their Contribution:

There shall be 5,444 water users, of which 5,342 are existing users and 102 are new users. The Area Director will review and authenticate the number of users prior to advertising for construction bids.

2. Grant Agreement:

Attached is a copy of RUS Bulletin 1780-12, "Water and Waste System Grant Agreement," for your review. You will be required to execute a completed form at the time of grant closing.

3. Drug-Free Work Place:

Prior to grant closing, the Association will be required to execute Form AD-1049, "Certification Regarding Drug-Free Workplace Requirements (Grants) Alternative I - For Grantees Other Than Individuals."

4. Repayment Period:

The loan will be scheduled for repayment over a period not to exceed 40 years from the date of the Promissory Note. Principal payment will not be deferred for a period in excess of two years from the date of the Promissory Note. The Association may be required to adopt a supplemental payment agreement providing for monthly payments of principal and interest so long as the Promissory Note is held or insured by RUS. Monthly payments will be approximate amortized installments.

5. Recommended Repayment Method:

Payments on this loan shall be made using the Preauthorized Debit (PAD) payment method. This procedure eliminates the need for paper checks and ensures timely receipt of RD loan payments. To initiate PAD payments, Form SF 5510, "Authorization Agreement for Preauthorized Payments," should be signed by the Association to authorize the electronic withdrawal of funds from your designated bank account on the exact installment payment due date. The Area Director will furnish the necessary forms and further guidance on the PAD procedure.

6. Reserve Accounts:

Reserves must be properly budgeted to maintain the financial viability of any operation. Reserves are important to fund unanticipated emergency maintenance, pay for repairs, and assist with debt service should the need arise.

The Association will be required to deposit \$365 per month into a "Funded Depreciation Reserve Account" until the account reaches \$43,800. The deposits are to be resumed any time the account falls below the \$43,800.

The required monthly deposits to the Reserve Account and required Reserve Account levels are in addition to the requirements of the Association's prior loan resolutions.

Harrison County Water Association

Page 3

The monthly deposits to the Reserve Account are required to commence with the first month of the first full fiscal year after the facility becomes operational.

The Association also needs to fund an account for short-lived assets by depositing a sum of \$1,500 monthly to the account. The funds in the short-lived asset account may be used by the Association as needed to replace or add short-lived assets in the Association's water system.

7. Security Requirements:

The loan will be secured by a real estate mortgage, a financing statement, security agreement, and a pledge of gross water revenue in the Loan Resolution and Financing Statement.

8. Land Rights and Real Property:

The Association will be required to furnish satisfactory title, easements, etc., necessary to install, maintain and operate the facility to serve the intended users. The pipelines will be on private rights-of-way where feasible. Easements and options are to be secured prior to advertising for construction bids.

9. Organization:

The Association will be legally organized under applicable KRS, which will permit them to perform this service, borrow and repay money.

10. Business Operations:

The Association will be required to operate the system under a well-established set of resolutions, rules and regulations. A budget must be established annually and adopted by the Association after review by Rural Development. At no later than loan pre-closing, the Association will be required to furnish a prior approved management plan to include, as a minimum, provisions for management, maintenance, meter reading, miscellaneous services, billing, collecting, delayed payment penalties, disconnect/reconnect fees, bookkeeping, making and delivering required reports and audits.

11. Accounts, Records and Audits:

The Association will be required to maintain adequate records and accounts and submit annual budgets and year-end reports (annual audits) in accordance with subsection 1780.47 of RUS Instruction 1780.

The enclosed audit booklet will be used as a guide for preparation of audits. The Association shall be required to submit a copy of its audit agreement for review and concurrence by Rural Development prior to pre-closing the loan.

12. Accomplish Audits for Years in Which Federal Financial Assistance is Received:

The Association will accomplish audits in accordance with OMB Circular A-133, during the years in which federal funds are received. The Association will provide copies of the audits to the Area Office and the appropriate Federal cognizant agency as designated by OMB Circular A-133.

13. Insurance and Bonding:

The following insurance and bonding will be required:

- A. Adequate Liability and Property Damage Insurance including vehicular coverage, if applicable, must be obtained and maintained by the Association. The Association should obtain amounts of coverage as recommended by its attorney, consulting engineer and/or insurance provider.
- B. Worker's Compensation - The Association will carry worker's compensation insurance for employees in accordance with applicable state laws.
- C. Fidelity Bond - The Association will provide Fidelity Bond Coverage for all persons who have access to funds. Coverage may be provided either for all individual positions or persons, or through "blanket" coverage providing protection for all appropriate employees and/or officials. The amount of coverage required for all RUS loans is \$294,000.
- D. Real Property Insurance - The Association will obtain and maintain adequate fire and extended coverage on all structures including major items of equipment or machinery located in the structures. The amounts of coverage should be based on recommendations obtained by the Association from its attorney, consulting engineer and/or insurance provider. Subsurface lift stations do not have to be covered except for the value of electrical and pumping equipment therein.
- E. Flood Insurance - The Association will obtain and maintain adequate coverage on any facilities located in special flood and mudslide prone areas.

14. Planning and Performing Development:

- A. The engineer should not be authorized to commence work on final plans and specifications until a determination has been made that the project can be planned and constructed within the estimated cost shown in paragraph "24" of this letter. The engineer may then proceed to develop final plans and specifications to be completed no later than 210 days from this date, and prepare bid documents. The Area Director is prepared to furnish the necessary guide to follow so as to keep the project plans and documents within our guidelines and requirements. The project should not be advertised for construction bids until all easements and enforceable options have been obtained, and total funds are committed or available for the project.
- B. The following documents will be submitted to Rural Development for review and must be concurred in by Rural Development prior to advertisement for construction bids:
 - 1. Final plans, specifications and bid documents.
 - 2. Applicant's letter on efforts to encourage small business and minority - owned business participation.
 - 3. Legal Service Agreements.
 - 4. Engineering Agreements.

Revision in these documents will be subject to Rural Development concurrence. Any agreements, contracts, etc. not reviewed and approved by Rural Development will not be eligible for payment from project funds or revenues from facilities financed by this Agency.

15. Civil Rights & Equal Opportunity:

You should be aware of and will be required to comply with other federal statute requirements including but not limited to:

A. Section 504 of the Rehabilitation Act of 1973:

Under Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), no handicapped individual in the United States shall, solely by reason of their handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Rural Development financial assistance.

B. Civil Rights Act of 1964:

All borrowers are subject to, and facilities must be operated in accordance with, Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and Subpart E of Part 1901 of this Title, particularly as it relates to conducting and reporting of compliance reviews. Instruments of conveyance for loans and/or grants subject to the Act must contain the covenant required by paragraph 1901.202(e) of this Title.

C. The Americans with Disabilities Act (ADA) of 1990:

This Act (42 U.S.C. 12101 et seq.) prohibits discrimination on the basis of disability in employment, state and local government services, public transportation, public accommodations, facilities, and telecommunications. Title II of the Act applies to facilities operated by state and local public entities that provide services, programs, and activities. Title III of the Act applies to facilities owned, leased, or operated by private entities that accommodate the public.

D. Age Discrimination Act of 1975:

This Act (42 U.S.C. 6101 et seq.) provides that no person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

Rural Development financial programs must be extended without regard to race, color, religion, sex, national origin, marital status, age, or physical or mental handicap.

16. Closing Instructions:

The Office of General Counsel, our Regional Attorney, will be required to write closing instructions in connection with this loan. Conditions listed therein must be met by the Association.

17. Compliance with Special Laws and Regulations:

The Association will be required to conform to any and all state and local laws and regulations affecting this type project.

18. System Operator:

The Association is reminded that the system operator must have an Operator's Certificate issued by the State.

19. Prior to Pre-Closing the Loan, the Association Will Be Required to Adopt:

- A. Form RD 1942-8, "Resolution of Members or Stockholders."
- B. Form RUS Bulletin 1780-28, "Loan Resolution Security Agreement."
- C. Form RD 400-1, "Equal Opportunity Agreement."
- D. Form RD 400-4, "Assurance Agreement."
- E. Form AD-1047, "Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transaction."
- F. Form RD 1910-11, "Applicant Certification Federal Collection Policies for Consumer or Commercial Debts."
- G. RD Instruction 1940-Q, Exhibit A-1, "Certification for Contracts, Grants and Loans."
- H. RUS Bulletin 1780-22, "Eligibility Certification."

20. Refinancing and Graduation Requirements:

The Association is reminded that if at any time it shall appear to the Government that the Association is able to refinance the amount of the RUS indebtedness then outstanding, in whole or in part, by obtaining a loan from commercial sources at reasonable rates and terms, upon the request of the Government, the Association will apply for and accept such loan in sufficient amount to repay the Government.

21. Commercial Interim Financing:

The Association will be required to use commercial interim financing for the project during construction for the RUS loan portion of the financing, if available at reasonable rates and terms.

Before the loan is closed, the Association will be required to provide Rural Development with statements from the contractor, engineer and attorneys that they have been paid to date in accordance with their contract or other agreements and, in the case of the contractor, that he has paid his suppliers and sub-contractors.

22. Disbursement of Project Funds:

A construction account for the purpose of disbursement of project funds (RUS) will be established by the Association prior to start of construction. The position of officials entrusted with the receipt and disbursement of RUS project funds will be covered by a "Fidelity Bond," with USDA Rural Development as Co-Obligee, in the amount of construction funds on hand at any one time during the construction phase.

For each "construction account" as established, if the amount of RUS loan and grant funds plus any applicant contributions or funds from other sources to be deposited into the account are expected to exceed \$100,000 at any time, the financial institution will secure the amount in excess of \$100,000 by pledging collateral with the Federal Reserve Bank in an amount not less than the excess in accordance with 7 CFR, 1902.7(a).

During construction, the Association shall disburse project funds in a manner consistent with subsection 1780.76 (e) of RUS Instruction 1780. Form RD 1924-18, "Partial Payment Estimate," or similar form approved by Rural Development, shall be used for the purpose of documenting periodic construction estimates, and shall be submitted to Rural Development for review and acceptance. Prior to disbursement of funds by the Association, the Board of Directors shall review and approve each payment estimate. All bills and vouchers must be approved by Rural Development prior to payment by the Association.

Form RD 440-11, "Estimate of Funds Needed for 30-Day Period Commencing _____," will be prepared by the Association and submitted to Rural Development in order that a periodic advance of federal cash may be requested.

Borrowers receiving federal loan and/or grant funds by EFT will have funds directly deposited to a specified account at a financial institution with funds being available to the recipient on the date of payment. The borrower should complete Form SF-3881, "Electronic Funds Transfer Payment Enrollment Form," for each account where funds will be electronically received. The completed form(s) must be received by Rural Development at least thirty (30) days prior to the first advance of funds.

Monthly audits of the Association's construction account records shall be made by Rural Development.

23. Disbursement of Grant Funds:

The RUS funds will be advanced as they are needed in the amount(s) necessary to cover the RUS proportionate share of obligations due and payable by the Association. Grant funds, upon receipt, must be deposited in an interest bearing account in accordance with 7 CFR part 3019 (as applicable). Interest earned on grant funds in excess of \$250 (as applicable) per year will be submitted to RUS at least quarterly.

24. Cost of Facility:

Breakdown of Costs:

Development	\$ 1,553,840
Land and Rights	10,000
Legal and Administrative	10,000
Engineering	270,600
Contingencies	<u>155,560</u>
TOTAL	\$ 2,000,000

Financing:

RUS Loan	\$ 885,000
RUS Grant	295,000
KY HB 206 grant	<u>820,000</u>
TOTAL	\$ 2,000,000

25. Commitment of Other Project Funds:

This Letter of Conditions is issued contingent upon a firm commitment being in effect prior to advertising for construction bids for the KY HB 206 grant in the amount of \$820,000.

26. Use of Remaining Project Funds:

After providing for all authorized costs, any remaining project funds will be considered to be RUS/State HB 206 grant funds and refunded in proportion to participation in the project. If the amount of unused project funds exceeds the grants, that part would be RUS loan funds.

27. Proposed Operating Budget:

You will be required to submit to Rural Development a copy of your proposed annual operating budget that supports the proposed loan repayment prior to this agency giving you written authorization to proceed with the bidding phase. The operating budget should be based on a typical year cash flow, subject to completion of this project in the first full year of operation. Form RD 442-7, Operating Budget, or similar form may be utilized for this purpose.

28. Rates and Charges:

Rates and charges for facilities and services rendered by the Association must be at least adequate to meet cost of maintaining, repairing and operating the water system and meeting required principal and interest payments and the required deposits to debt service and/or depreciation reserve.

Water rates will be at least:

5/8" x 3/4" meter:

First	2,000	gallons @ \$	15.15 - Minimum Bill.
Next	1,000	gallons @ \$	5.45 - per 1,000 gallons.
Next	2,000	gallons @ \$	5.29 - per 1,000 gallons.
Next	45,000	gallons @ \$	4.79 - per 1,000 gallons.
All Over	50,000	gallons @ \$	3.95 - per 1,000 gallons.

1" meter:

First	5,000	gallons @ \$	31.18 - Minimum Bill.
Next	45,000	gallons @ \$	4.79 - per 1,000 gallons.
All Over	50,000	gallons @ \$	3.95 - per 1,000 gallons.

2" meter:

First	15,000	gallons @ \$	79.08 - Minimum Bill.
Next	35,000	gallons @ \$	4.79 - per 1,000 gallons.
All Over	50,000	gallons @ \$	3.95 - per 1,000 gallons.

Bulk Loading Station:

All gallons @ \$6.00 per 1,000 gallons.

29. Water Purchase Contract:

The Association will submit a Water Purchase Contract for approval by Rural Development before advertising for construction bids. If the contract is not on Form RD 442-30, "Water Purchase Contract," the contract will require approval by our Regional Attorney. The contract must meet the requirements of subsection 1780.62 of RUS Instruction 1780.

30. Compliance with the Bioterrorism Act:

Prior to pre-closing the loan, the Association will provide a certification they have completed a Vulnerability Assessment (VA) and prepared an emergency response plan (ERP) as required by the Safe Drinking Water Act (SDWA).

31. Floodplain Construction:

The Association will be required to pass and adopt a Resolution or amend its By-Laws whereby the Association will deny any water service to any future customer wishing to build on or develop property located within a designated floodplain. If a customer or developer requests service for construction in a designated floodplain, the customer or developer must provide evidence and a justification for approval by the Association and Rural Development officials that there are no other alternatives to construction or development within the designated floodplain. The community must be a participant in the National Flood Insurance Program

(NFIP) and the customer or developer must obtain the required permits prior to the tap on restrictions being waived.

32. Mitigation Measures:

- A. The project shall be in compliance with all requirements noted in the Governor's Office for Local Development letter dated October 27, 2007, from Ms. Lee Nalley, KY State Clearinghouse.
- B. The line design and construction shall be accomplished in a way that will leave flood plains and farmland without effect after construction is complete. The Army Corps of Engineers Nationwide Permit No. 12 applies to all floodplain and wetland utility line construction.
- C. Any excavation by Contractor that uncovers a historical or archaeological artifact shall be immediately reported to Owner and a representative of Agency. Construction shall be temporarily halted pending the notification process and further directions issued by Agency after consultation with the State Historic Preservation Officer (SHPO).
- D. The design and construction shall be in compliance with all local, state and federal environmental statutes, regulations and executive orders applicable to the project.
- E. Best Management Practices shall be incorporated into the project design, construction, and maintenance.
- F. The applicant must provide this Agency with a letter of clearance from the State Historical Preservation Officer prior to the bidding of the project.

33. Final Approval Conditions:

Final approval of this assistance will depend on your willingness, with the assistance of all your co-workers, to meet the conditions of this letter in an orderly and systematic manner. Then too, final approval will depend on funds being available.

If you desire to proceed with your application, the Area Director will allot a reasonable portion of time to provide guidance in application processing.

Sincerely,


KENNETH SLONE
State Director

Enclosures

cc: Area Director - Shelbyville, Kentucky
Bluegrass ADD - Lexington, Kentucky
Local Counsel
Strand Associates - Louisville, Kentucky
PSC - ATTN: Dennis Jones - Frankfort, Kentucky

PRELIMINARY ENGINEERING REPORT

for

**CONTRACT 30 – WATER SYSTEM EXPANSIONS
& IMPROVEMENTS, PHASE 10 PROJECT**

for the

**HARRISON COUNTY WATER ASSOCIATION
HARRISON COUNTY, KENTUCKY**

April 2008

**STRAND ASSOCIATES, INC.
325 West Main Street, Suite 710
Louisville, Kentucky 40202
(502) 583-7020**

TABLE OF CONTENTS

<u>Section</u>	<u>Description</u>	<u>Page No.</u>
1.	Purpose of Report	2
2.	General Background Data	2
3.	Existing System	2
4.	Scope of Project	3
5.	Estimated Water Usage	3
6.	Design Criteria:	
	a. Hydraulic Considerations	4
	b. Construction Considerations	4
7.	Financial:	
	a. Construction and Project Costs	4
	b. Project Budget	5
	c. Rate Analysis	5
8.	Summary and Conclusions	6

APPENDIX

Exhibit 1 – Project Location Maps

Exhibit 2 – Summary Addendum to Preliminary Engineering Report

1. **Purpose of Report**

This report describes the scope of the proposed project and presents the general background data used in its planning and development. Design criteria and financial data are presented and discussed.

2. **General Background Data**

In November 2006, Strand Associates, Inc. was authorized by the Harrison County Water Association (HCWA) to investigate the feasibility of constructing approximately 27-miles of 4" and 8" water mains, a water storage tank, a pump station, and related appurtenances throughout Harrison County, Kentucky. This project will improve pressure and supply to approximately 500 underserved users and provide a reliable source of potable water to 102 unserved users. Citizens have expressed considerable interest to the HCWA concerning the need for improved pressure and supply of potable water in areas presently being underserved and for a reliable source of potable water service in unserved areas.

The Kentucky State Clearinghouse comments were received on December 3, 2007 and no conflicts with the State's goals, plans, or objectives were noted. The proposed water system expansions and improvements were reviewed by the Bluegrass Area Development District (BGADD) and appear to be consistent with the BGADD Comprehensive Plan. The HCWA is applying for a USDA Rural Utilities Service (RUS) Water and Waste Loan and Grant to cover \$1,180,000 of the \$2,000,000 project cost. The remaining \$820,000 is to be covered by a Kentucky Infrastructure Authority (KIA) Grant. If the KIA Grant is not received, HCWA will revise the application so that the USDA RUS Water and Waste Loan and Grant will cover a larger amount of the project. Exhibit 1 of the appendix shows the locations of the proposed expansions and improvements.

3. **Existing Systems**

HCWA was first formed as the Harrison County Water District in the early 1960's. In December of 1965, the District entered into a twenty-year water purchase agreement with the City of Cynthiana. This water purchase agreement was amended in November 1968, allowing for a twenty-year extension of services without notice. The agreement was further amended in June 1969, extending the contract life to sixty years beginning March 1, 1969 and transferred rights from the Harrison County Water District to the HCWA. An amendment effective October 21, 1987, was negotiated by Cynthiana in order to improve its water supply system. This amendment increased the water purchase rates and extended the contract life for a period of sixty years. The most recent amendment effective May 26, 1999, was negotiated by Cynthiana in order to further improve its water supply system and included another increase in water purchase rates.

Since its beginning in the middle 1960's, the HCWA has developed into one of the largest and most efficiently operated rural water suppliers in the State. During the 1970's, the HCWA undertook three major expansion projects that resulted in 120-miles of water mains being constructed. In addition to the water mains, the projects included the construction of five standpipe storage tanks, five booster pump stations, and a telemetry control system. Throughout the following twenty-five years, the HCWA continued to undertake projects that would further extend its service area to those without a reliable source of potable water service. Following are descriptions of those projects:

- Phase 4 (1984/85) – Added 37-miles of water main; Project funded by Rural Development (RD, formerly FmHA)
- Phase 5 (1988/89) – Added 24-miles of water main; Project funded by RD

- Phase 6 (1992/93) – Added 42-miles of water main, two new pump stations, one pump station upgrade, a 107,000 gallon storage tank, and a telemetry control system upgrade; Project funded by HUD-CDBG, RD, and HCWA
- Phase 7 (1993/94) – Added 24 miles of water main, a 112,000 gallon storage tank, an altitude valve, and a radio telemetry control system; Project funded by RD
- Phase 8 (1996/97) – Added a 110,000 gallon storage tank and one pump station; Project funded by HUD-CDBG and RD
- Phase 9 (2001/02) – Added approximately 50-miles of water main, a 192,000 gallon standpipe, two booster pump stations, 250 gpm and 150 gpm each, and a radio telemetry control system.

With minor extensions of existing lines and the development of several subdivisions, the HCWA presently operates and maintains more than 385-miles of 2" through 10" water distribution mains.

4. **Scope of Project**

The HCWA Water System Expansions and Improvements, Phase 10 Project (Contract 30) consists of constructing approximately 27-miles of 4" and 8" water mains, a water storage tank, a pump station, and related appurtenances throughout Harrison County, Kentucky in order to improve pressure and supply to approximately 500 underserved users and provide a reliable source of potable water to 102 unserved users.

5. **Estimated Water Usage**

Presently, the HCWA serves 5,471 customers of which 97.6% are residential. The average annual water usage by 5,342 existing residential customers as determined by billings for the 12-month period between January 2007 and December 2007 was 316,091,000 gallons (162 gpcpd). Average monthly demand per residential customer (5/8" x 3/4" meters) calculates to 4,928 gallons.

The average annual water usage by 129 existing commercial customers as determined by billings for the same 12-month period was 16,857,000 gallons (358 gpcpd). Average monthly demand per commercial customer calculates to 10,889 gallons.

HCWA currently has water purchase contracts with the City of Cynthiana (no set limit), the Kentucky-American Water Company (3,000,000 gallons per month limit), the Nicholas County Water District (500,000 gallons per month limit), the City of Paris (500,000 gallons per month limit), and the City of Millersburg (600,000 gallons per month limit).

This project will be served by potable water purchased from the City of Cynthiana, which has a raw water intake, high-service pump station, and a raw water transmission main that enables it to pump water from the main fork of the Licking River. The City of Cynthiana operates a water treatment plant rated for a 24-hour capacity of 6 million gallons per day (MGD).

The current average demand is 1,143,000 gallons of water per day for all users. With the addition of 102 new users, the anticipated average demand will increase to approximately 1,183,800 gallons per day. This water usage increase is based on 400 gallons per capita per day (gpcpd), which is well above the current residential average of 162 gpcpd. Based on this assumption, HCWA will still be provided ample capacity to service its existing and future users.

6. **Design Criteria**

a. Hydraulic Considerations

Hydraulic calculations are based on the Hazen-Williams formula with a "C" value of 140 for PVC mains and 130 for ductile iron mains. The economy of polyvinyl chloride (PVC) pipe has caused it to be the predominant material for rural water system pipelines. The relatively high flow coefficient of C = 140 is a common value for PVC water systems and is, therefore, used in the design of this system. The same is true for C = 130 for ductile iron systems.

Line sizes are designed to maintain a minimum of 30 pounds per square inch (psi) at the service meter during peak flows.

Fire protection capacity is not designed into the system. Hydrants are normally for blow-off purposes. Service meters, valves and other appurtenances are designed for basic rural-domestic water supply service only.

b. Construction Considerations

The pipelines will be constructed on private easement and some state and county rights-of-way. The storage tank will be constructed on a fee simple purchase from a private property owner, while the pump station will be constructed on a private easement. Harrison County is underlain by limestone rock formations. Based on previous construction projects and the HCWA's construction experience, the determination was made that rock removal would not present unusual problems at the proposed construction sites. Rock layers near the ground surface are weathered and fragmented.

7. **Financial**

a. Construction and Project Costs

Construction and project cost estimates are presented in Table 1. The estimated construction cost for the proposed project is \$2,000,000.00, which is based on an estimate prepared by Strand Associates, Inc.

Table 1 – Total Project Cost Estimate

<u>Construction Cost Estimate</u>	
Line 1 – Pughs Ferry Road	\$164,736
Line 2 – Snake Lick Road	211,200
Line 3 – KY 1054	145,728
Line 4 – Durbintown Road	38,016
Line 5 – Byrd's (Rocky) Ford Road	50,688
Line 6 – Wagner Lane	21,120
Line 7 – Beagle Lane	21,120
Line 8 – Hughes Road	88,704
Line 9 – Springtown-Webber Road	33,792
Line 10 – Martin Road	92,928
Line 11 – Spirito Lane	25,344
Line 12 – Dixon Road	38,016
Line 13 – Junction Pike	50,688
Line 14 – Dryden Road	50,688
Line 15 – Arrowhead Lake Road	50,688
Line 16 – KY 36	95,040
Line 17 – Moore Road	25,344
New Elevated Water Storage Tank	250,000
New Pump Station	100,000

Total Construction	\$1,553,840
Contingencies	155,560
Administrative and Legal	10,000
Land and Easements	10,000
Engineering Fees ¹	192,200
Project Inspection Fees	<u>78,400</u>
TOTAL PROJECT COST ESTIMATE	\$2,000,000

¹ Engineering Fees:	Preliminary Services	\$20,000
	Basic Services	127,200
	Additional Services	<u>45,000</u>
		\$192,200

b. Project Budget

A summary of the proposed project funding is as follows:

RUS Loan	\$885,000
RUS Grant	295,000
KIA Grant	<u>820,000</u>
TOTAL ESTIMATED PROJECT FUNDING	\$2,000,000

c. Rate Analysis

A rate analysis with the existing and proposed operation and maintenance costs and debt service requirements are attached in the Summary Addendum in Exhibit 2 of the appendix. This analysis includes a statement regarding the income necessary to meet the estimated obligation for both the existing and proposed systems.

This rate analysis also makes a comparison of the current and future operating budgets with and without depreciation included. According to this, the HCWA is showing a profit prior to including depreciation, but a loss after depreciation. The HCWA understands that depreciation is a real expense that must be accounted for and covered by their annual income.

Furthermore, the HCWA has received a notice from the City of Cynthiana that a change in their rates is forthcoming and once this rate change is proposed, the HCWA will reevaluate and determine how their existing rate schedule and depreciation will be affected. Based on this reevaluation, a rate change may be requested by the HCWA for approval of the Public Service Commission to cover the rate increase by the City of Cynthiana and existing depreciation.

8. **Summary and Conclusions**

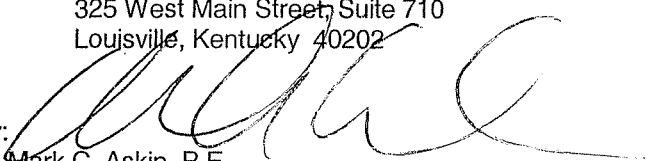
The HCWA Water System Expansions and Improvements, Phase 10 Project (Contract 30) consists of constructing approximately 27-miles of 4" and 8" water mains, a water storage tank, a pump station, and related appurtenances throughout Harrison County, Kentucky in order to improve pressure and supply to approximately 500 underserved users and provide a reliable source of potable water to 102 unserved users.

Funding for this project will be covered completely by a KIA Grant and a USDA RUS Water and Waste Loan and Grant.

Signed:

Strand Associates, Inc.
325 West Main Street, Suite 710
Louisville, Kentucky 40202

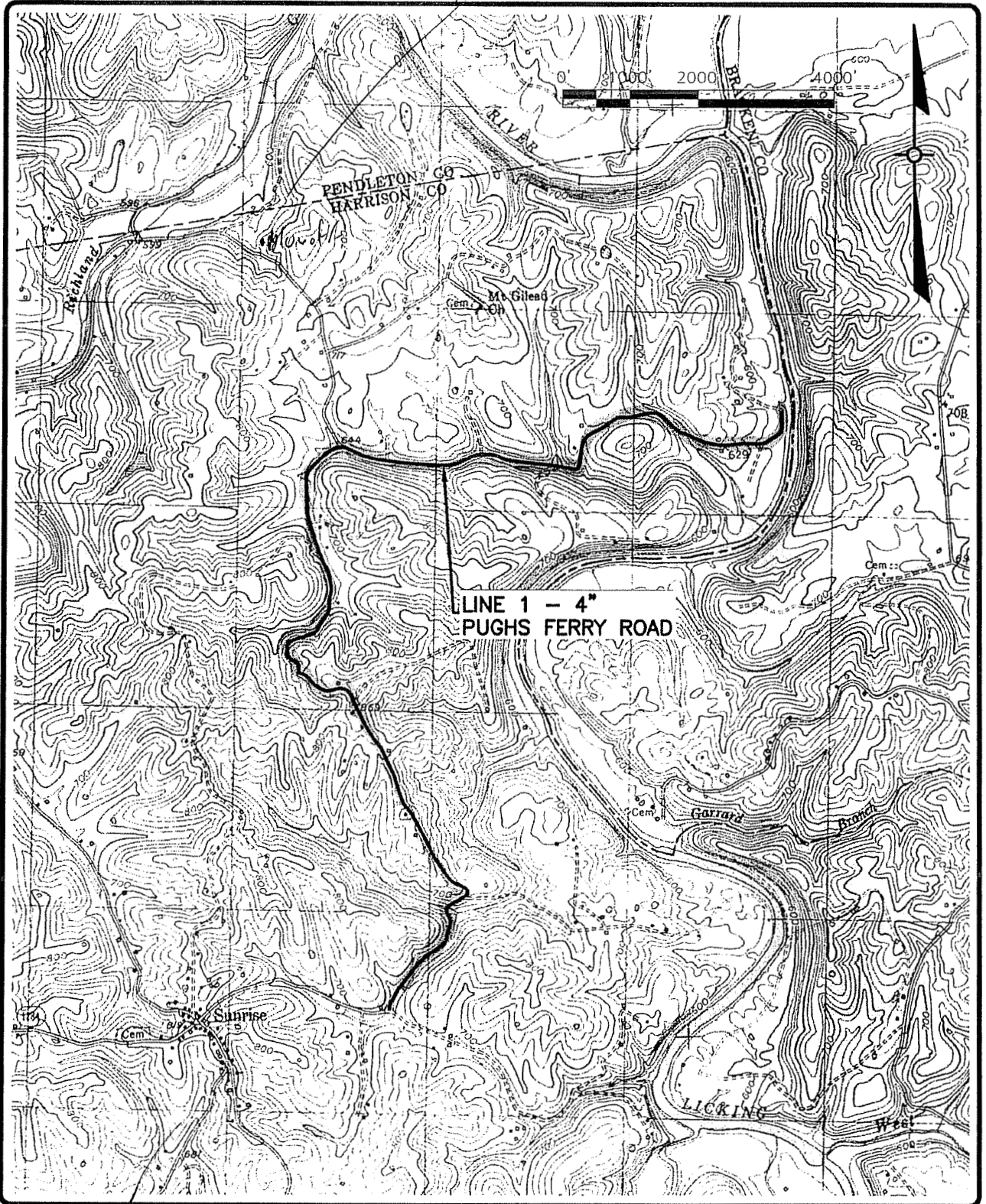
By:


Mark C. Askin, P.E.

APPENDIX

Appendix, Exhibit 1 – Project Location Maps

0.14 ue1
1/2 blowoff



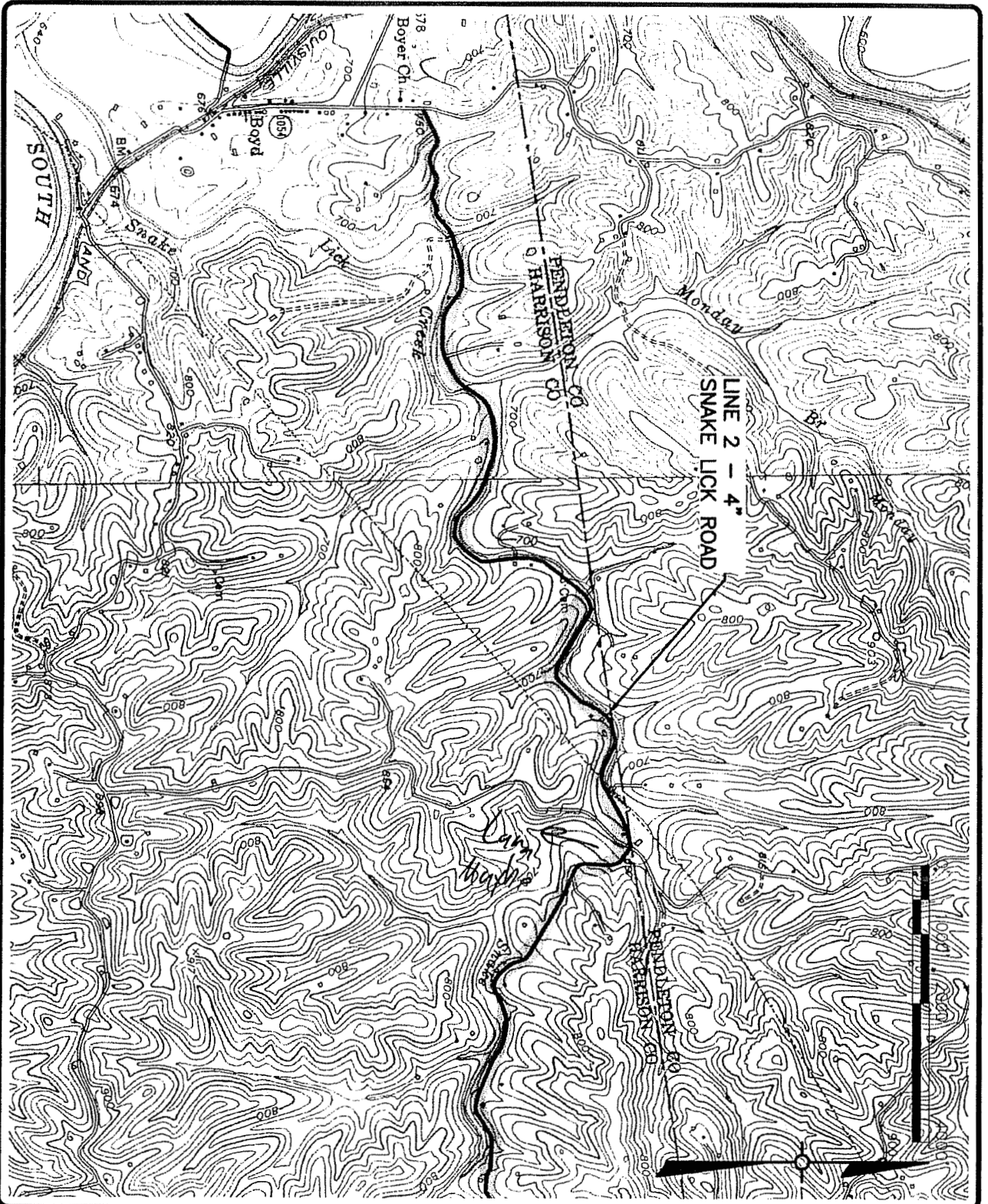
File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:15am

LINE 1
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY

STRAND
ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 1

File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:18am



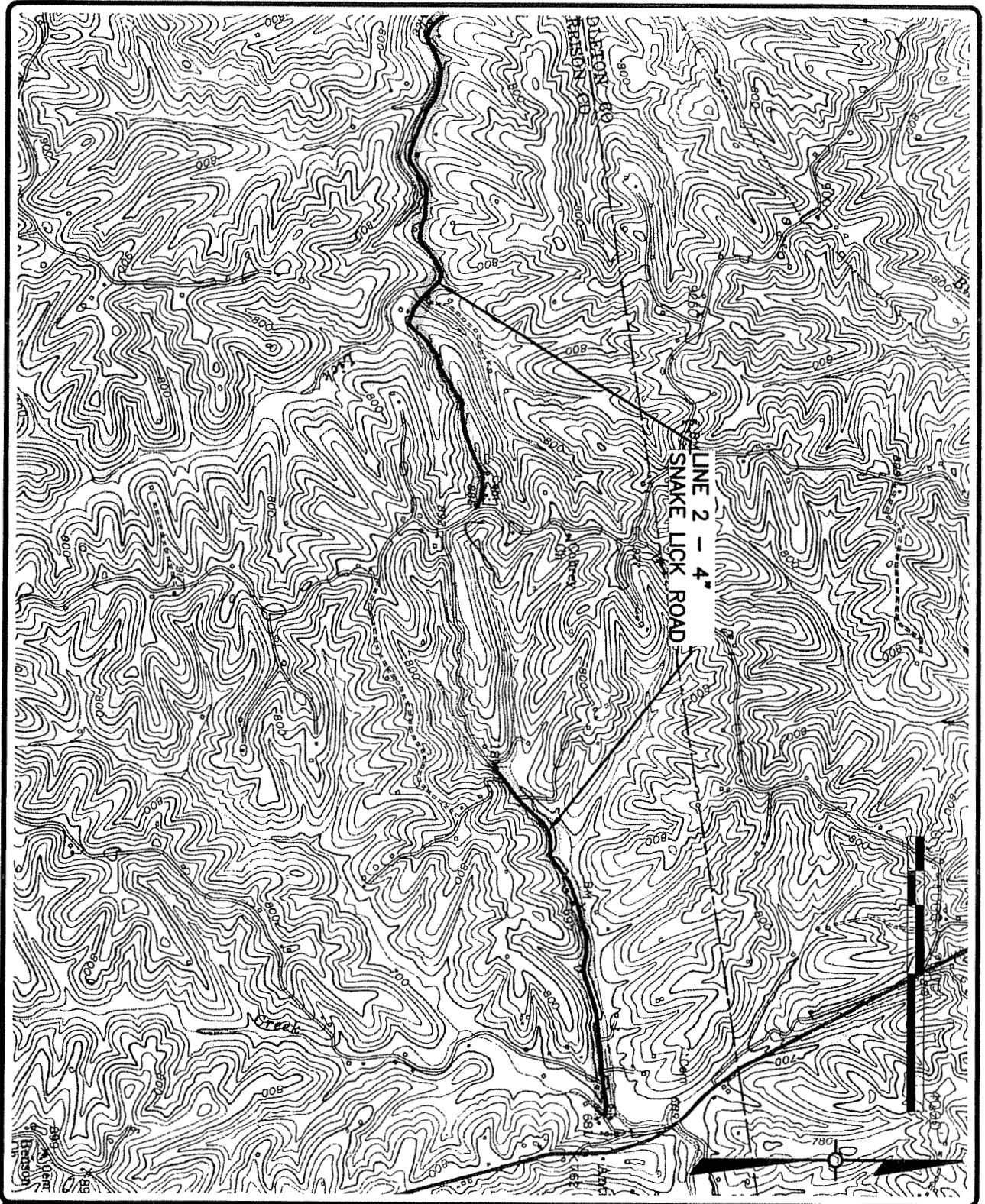
LINE 2
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY



BSTRAND
ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 2

File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:19am



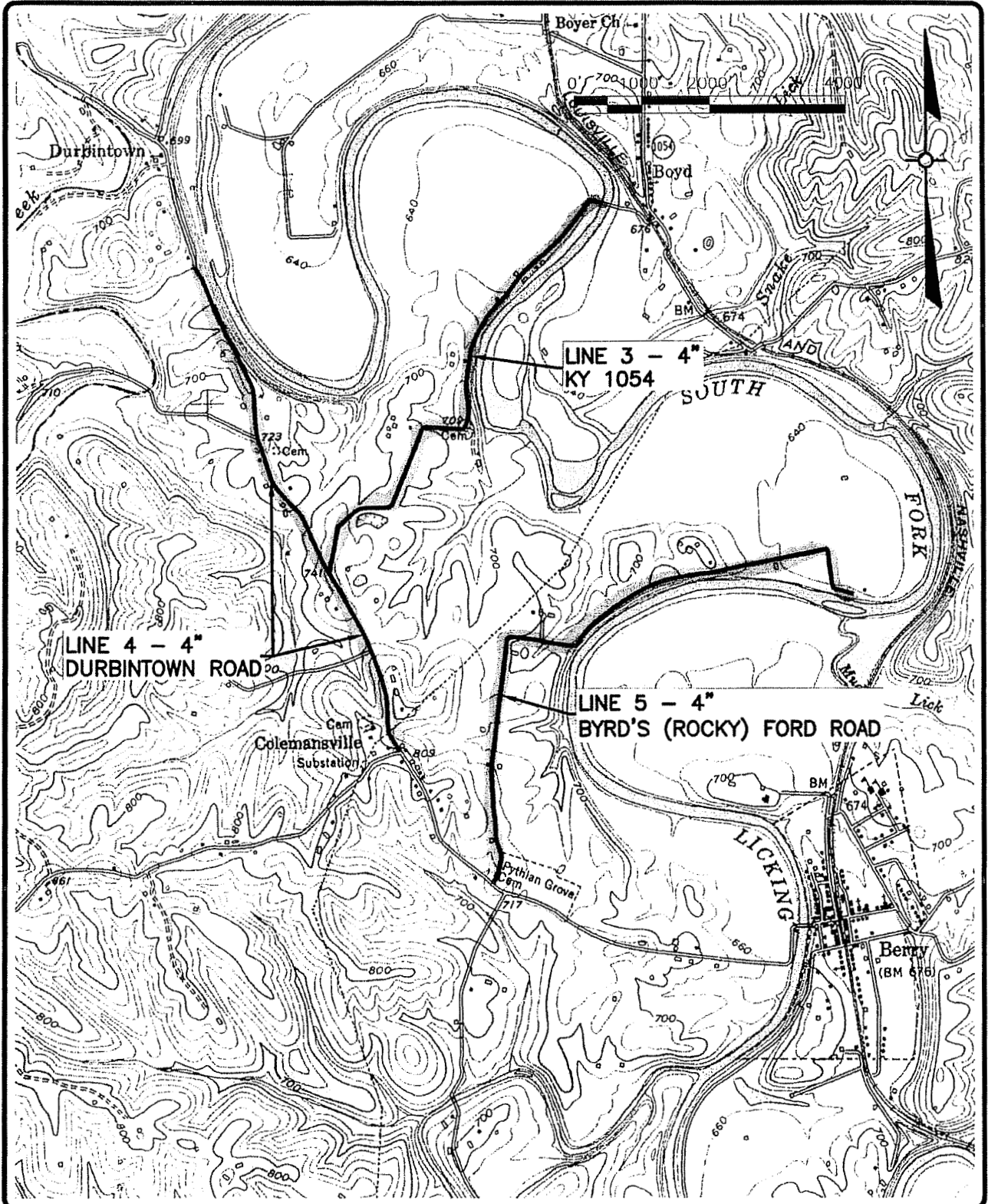
LINE 2
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY



STRAND
ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 3

File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:20am

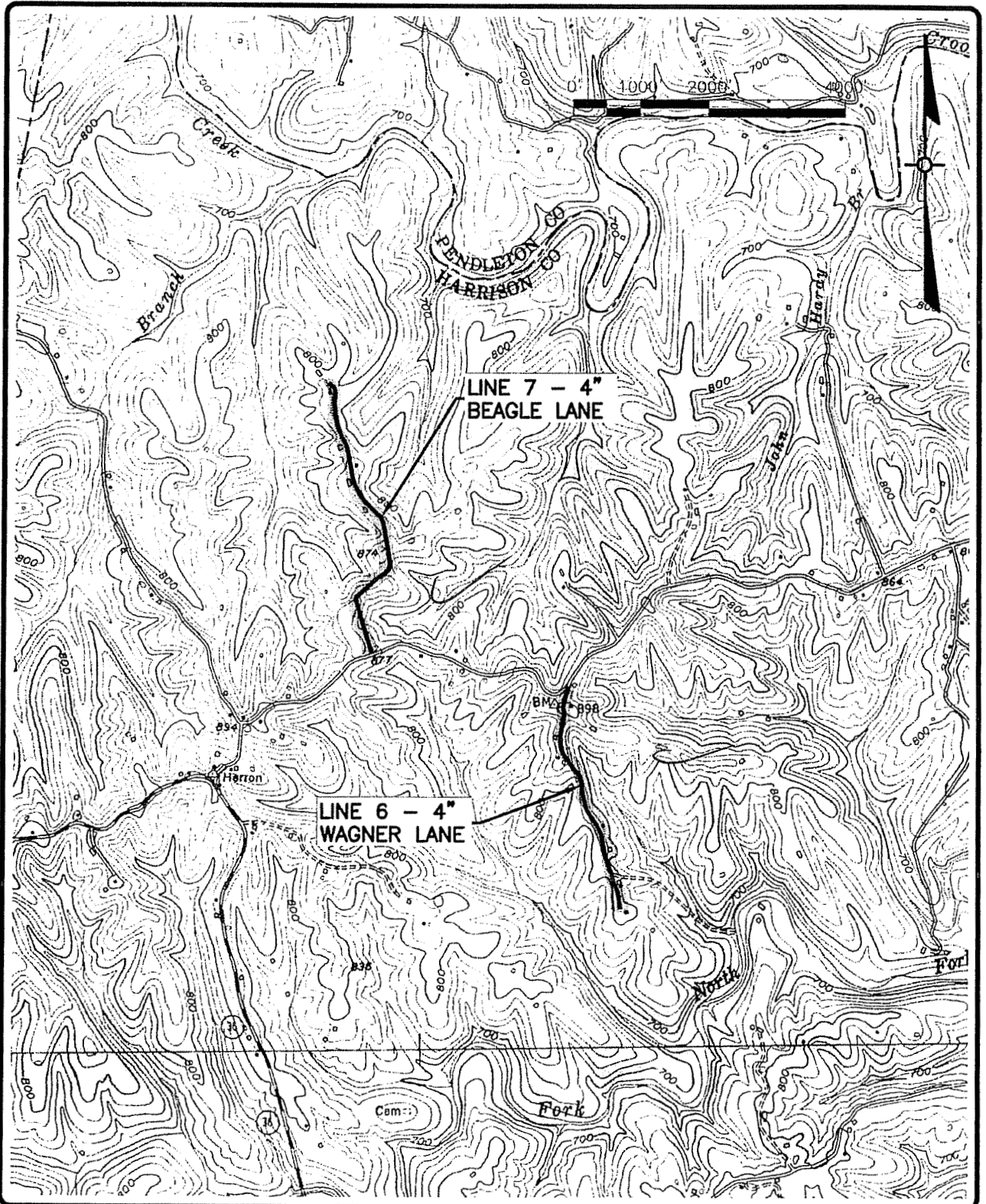


**LINES 3-5
TOPO MAPPING**
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY

STRAND
ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 4

File: S:\05\201---250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:21am

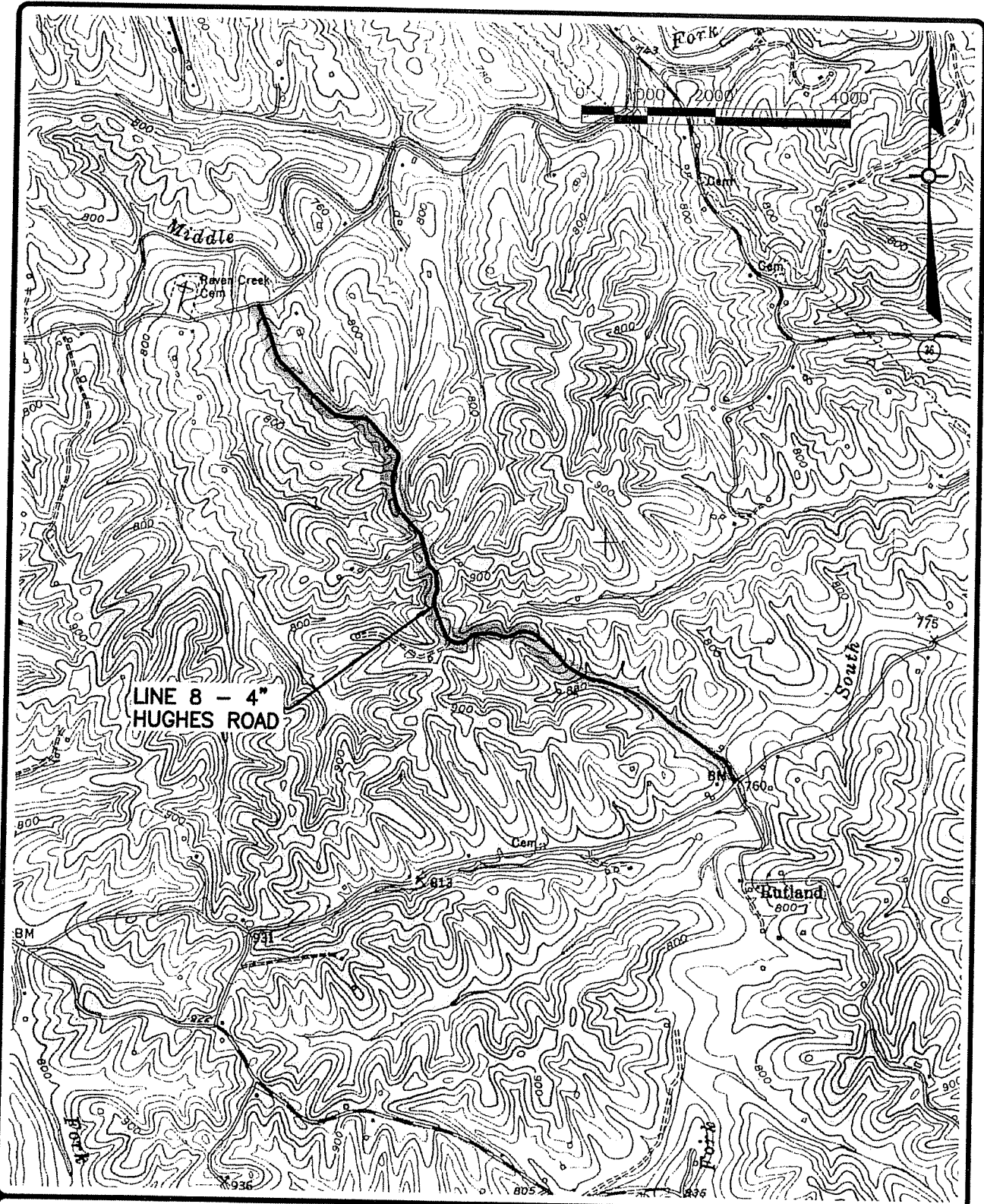


**LINES 6-7
TOPO MAPPING**
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY


STRAND
ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 5

File: S:\05\201\---250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:22am



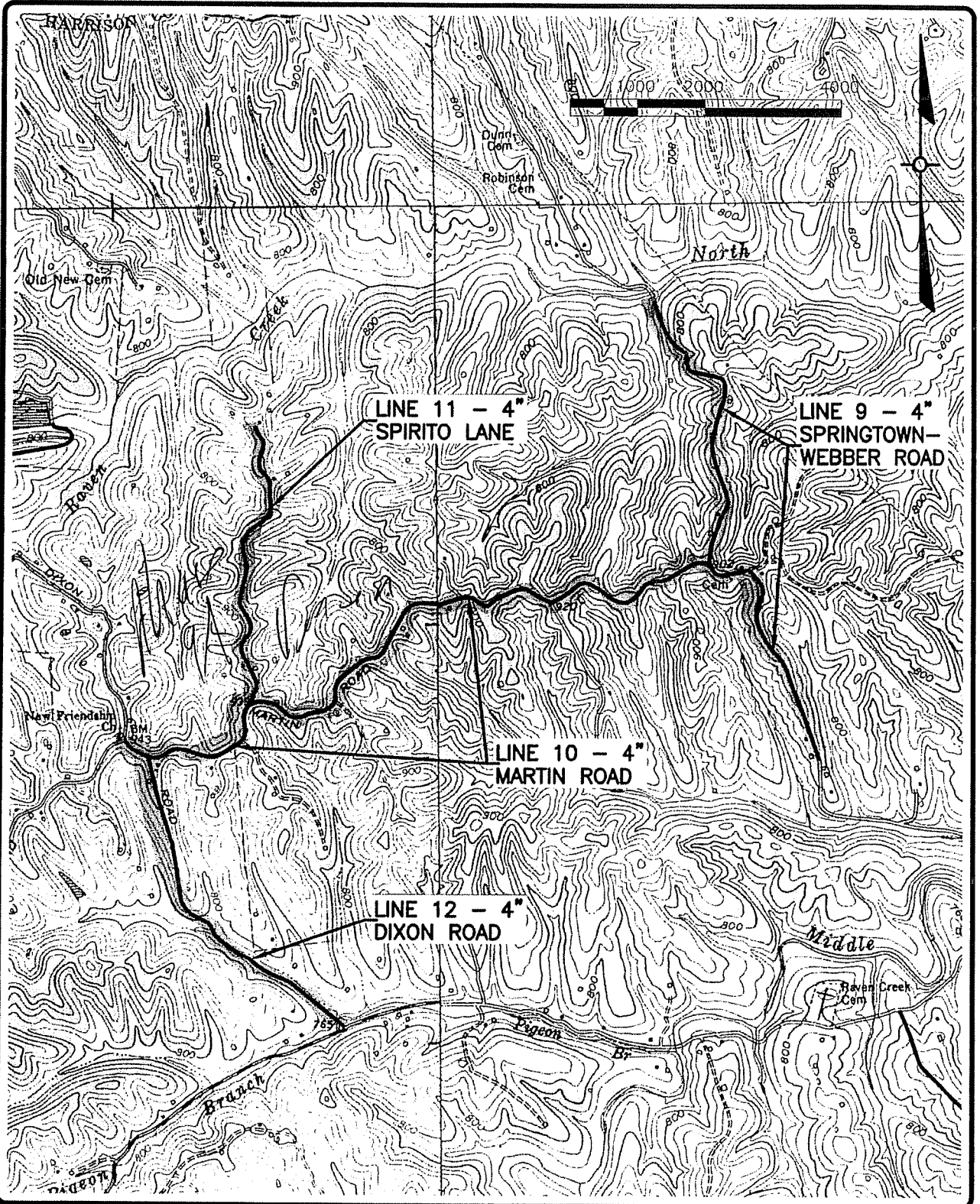
**LINE 8
TOPO MAPPING**
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY



STRAND
ASSOCIATES, INC.[®]
ENGINEERS

TOPO FIG. 6

File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:22am



**LINES 9-12
TOPO MAPPING**
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY

BSTRAND ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 7

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
11.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	3	EA	\$ 2,800.00	\$ 8,400.00	\$ 2,600.00	\$ 7,800.00	\$ 2,500.00	\$ 7,500.00	\$ 2,700.00	\$ 8,100.00
12.	Cleanup and restoration INCL furnishing, material, and labor.	9,460	LF	\$ 0.50	\$ 4,730.00	\$ 0.47	\$ 4,446.20	\$ 0.50	\$ 4,730.00	\$ 0.80	\$ 7,568.00
13.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	40	LF	\$ 5.00	\$ 200.00	\$ 6.70	\$ 268.00	\$ 8.00	\$ 320.00	\$ 3.00	\$ 120.00
14.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation, INCL unclassified excavation.	1	EA	\$ 1,500.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
15.	Stream crossing with directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe diameter should be sized so that it can carry a separate PE portable water pipe w/an inside DIA of 4 IN. PE directional drill casing pipe and 4 IN inside diameter, PE water main, furnishing, trenching, laying and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	75	LF	\$ 80.00	\$ 6,000.00	\$ 145.00	\$ 10,875.00	\$ 225.00	\$ 16,875.00	\$ 90.00	\$ 6,750.00
16.	Stream crossing with PVC SDR 35 cover pipe and concrete cap, INCL furnishing, material, and labor.	90	LF	\$ 70.00	\$ 6,300.00	\$ 66.00	\$ 5,940.00	\$ 70.00	\$ 6,300.00	\$ 40.00	\$ 3,600.00
17.	Special creek crossing meter box according to details, INCL valve, meter, meter box, and furnishing, material, and labor.	2	EA	\$ 950.00	\$ 1,900.00	\$ 1,130.00	\$ 2,260.00	\$ 2,100.00	\$ 4,200.00	\$ 600.00	\$ 1,200.00
18.	Creek crossing with 8-IN steel cover, furnishing and installing, trenching under creek on Line "A" at Sta. 22+00, INCL unclassified boring and/or jacking and bore pits (water pipe not INCL). CONTRACTOR shall not disturb existing creek bed and bore casing shall be 36 IN under creek bed. CONTRACTOR shall be responsible for clearing area for bore pits adjacent to creek area in unit price Bid.	50	LF	\$ 100.00	\$ 5,000.00	\$ 75.00	\$ 3,750.00	\$ 150.00	\$ 7,500.00	\$ 97.00	\$ 4,850.00
TOTAL LINE "A" AND LINE "A-1" (PUGHS FERRY ROAD)					\$ 100,980.00		\$ 103,181.20		\$ 122,218.00		\$ 125,090.00
LINE "B" (HAVILANDSVILLE ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	8,860	LF	\$ 6.50	\$ 57,990.00	\$ 6.25	\$ 55,375.00	\$ 6.80	\$ 60,248.00	\$ 8.85	\$ 78,411.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
2.	4-IN DIP, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,560	LF	\$ 18.00	\$ 46,080.00	\$ 13.70	\$ 35,072.00	\$ 20.00	\$ 51,200.00	\$ 22.00	\$ 56,320.00
3.	8-IN steel cover pipe, furnishing, installing, trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
4.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	25	LF	\$ 40.00	\$ 1,000.00	\$ 41.00	\$ 1,025.00	\$ 50.00	\$ 1,250.00	\$ 50.00	\$ 1,250.00
5.	4IN C.I. AWWA N.R.S. gate valve and box, CIP.	3	EA	\$ 550.00	\$ 1,650.00	\$ 725.00	\$ 2,175.00	\$ 600.00	\$ 1,800.00	\$ 579.00	\$ 1,737.00
6.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, as per detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
7.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, as according to detail.	5	EA	\$ 600.00	\$ 3,000.00	\$ 1,020.00	\$ 5,100.00	\$ 1,250.00	\$ 6,250.00	\$ 1,265.00	\$ 6,325.00
8.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to items 6 and 7.	45	LF	\$ 4.00	\$ 180.00	\$ 4.00	\$ 180.00	\$ 5.00	\$ 225.00	\$ 6.00	\$ 270.00
9.	Automatic air release valve assembly and box. CIP, as per detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	11,560	LF	\$ 0.50	\$ 5,780.00	\$ 0.47	\$ 5,433.20	\$ 0.50	\$ 5,780.00	\$ 0.80	\$ 9,248.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	115	LF	\$ 5.00	\$ 575.00	\$ 6.70	\$ 770.50	\$ 8.00	\$ 920.00	\$ 3.00	\$ 345.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
13.	Stream crossing with directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe diameter should be sized so that it can carry a separate PE portable water pipe with an inside diameter of 4-IN. PE Directional Drill casing pipe and 4-IN inside DIA PE water main, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	140	LF	\$ 70.00	\$ 9,800.00	\$ 145.00	\$ 20,300.00	\$ 225.00	\$ 31,500.00	\$ 97.00	\$ 13,580.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
14.	Special creek crossing meter box according to details INCL valve, meter, meter box, and furnishing, material, and labor.	2	EA	\$ 950.00	\$ 1,900.00	\$ 1,130.00	\$ 2,260.00	\$ 2,100.00	\$ 4,200.00	\$ 1,062.00	\$ 2,124.00
TOTAL LINE "B" (HAVILANDSVILLE ROAD)					\$ 133,655.00		\$ 135,780.70		\$ 172,723.00		\$ 178,088.00
LINE "C" (SNAKE LICK ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	5,180	LF	\$ 6.50	\$ 33,670.00	\$ 6.25	\$ 32,375.00	\$ 6.80	\$ 35,224.00	\$ 8.85	\$ 45,843.00
2.	8-IN steel cover pipe, furnishing and installing, trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	60	LF	\$ 90.00	\$ 5,400.00	\$ 75.00	\$ 4,500.00	\$ 85.00	\$ 5,100.00	\$ 97.00	\$ 5,820.00
3.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	3	EA	\$ 450.00	\$ 1,350.00	\$ 815.00	\$ 2,445.00	\$ 900.00	\$ 2,700.00	\$ 700.00	\$ 2,100.00
4.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
5.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 3 and 4.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
6.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
7.	Cleanup and restoration INCL furnishing, material, and labor.	5,180	LF	\$ 0.50	\$ 2,590.00	\$ 0.47	\$ 2,434.60	\$ 0.50	\$ 2,590.00	\$ 0.80	\$ 4,144.00
8.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00
9.	Stream crossing with crushed stone INCL furnishing, material, and labor.	80	LF	\$ 20.00	\$ 1,600.00	\$ 36.00	\$ 2,880.00	\$ 50.00	\$ 4,000.00	\$ 40.00	\$ 3,200.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation, INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL LINE "C" (SNAKE LICK ROAD)					\$ 49,665.00		\$ 50,837.10		\$ 56,564.00		\$ 67,385.00
LINE "D" (SNAKE LICK ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	18,450	LF	\$ 6.50	\$ 119,925.00	\$ 6.25	\$ 115,312.50	\$ 6.80	\$ 125,460.00	\$ 7.85	\$ 144,832.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,200	LF	\$ 6.00	\$ 19,200.00	\$ 5.70	\$ 18,240.00	\$ 6.30	\$ 20,160.00	\$ 8.30	\$ 26,560.00
3.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	170	LF	\$ 90.00	\$ 15,300.00	\$ 75.00	\$ 12,750.00	\$ 85.00	\$ 14,450.00	\$ 97.00	\$ 16,490.00
4.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 50.00	\$ 1,000.00
5.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	8	EA	\$ 550.00	\$ 4,400.00	\$ 725.00	\$ 5,800.00	\$ 600.00	\$ 4,800.00	\$ 579.00	\$ 4,632.00
6.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	11	EA	\$ 450.00	\$ 4,950.00	\$ 815.00	\$ 8,965.00	\$ 900.00	\$ 9,900.00	\$ 700.00	\$ 7,700.00
7.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	6	EA	\$ 600.00	\$ 3,600.00	\$ 1,020.00	\$ 6,120.00	\$ 1,250.00	\$ 7,500.00	\$ 1,265.00	\$ 7,590.00
8.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 5 and 6.	50	LF	\$ 4.00	\$ 200.00	\$ 4.00	\$ 200.00	\$ 5.00	\$ 250.00	\$ 6.00	\$ 300.00
9.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
10.	4 IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
11.	Cleanup and restoration INCL furnishing, material, and labor.	21,650	LF	\$ 0.50	\$ 10,825.00	\$ 0.47	\$ 10,175.50	\$ 0.50	\$ 10,825.00	\$ 0.80	\$ 17,320.00
12.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	275	LF	\$ 5.00	\$ 1,375.00	\$ 6.70	\$ 1,842.50	\$ 8.00	\$ 2,200.00	\$ 3.00	\$ 825.00
13.	Stream crossing with crushed stone INCL furnishing, material, and labor.	315	LF	\$ 20.00	\$ 6,300.00	\$ 36.00	\$ 11,340.00	\$ 50.00	\$ 15,750.00	\$ 40.00	\$ 12,600.00
14.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
15.	Stream crossing with Directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe diameter should be sized so that it can carry a separate PE portable water pipe with an inside diameter of 4-IN. PE Directional Drill casing pipe and 4-IN inside DIA PE Water main, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	300	LF	\$ 80.00	\$ 24,000.00	\$ 145.00	\$ 43,500.00	\$ 225.00	\$ 67,500.00	\$ 97.00	\$ 29,100.00
16.	Stream crossing with PVC SDR 35 cover pipe and concrete cap INCL furnishing, material, and labor.	210	LF	\$ 70.00	\$ 14,700.00	\$ 66.00	\$ 13,860.00	\$ 70.00	\$ 14,700.00	\$ 40.00	\$ 8,400.00
17.	Special creek crossing meter box according to details INCL valve, meter, meter box, and furnishing, material, and labor.	4	EA	\$ 950.00	\$ 3,800.00	\$ 1,130.00	\$ 4,520.00	\$ 2,100.00	\$ 8,400.00	\$ 600.00	\$ 2,400.00
TOTAL: LINE "D" (SNAKE LICK ROAD)					\$ 233,775.00		\$ 258,625.50		\$ 308,595.00		\$ 285,217.50
LINE "E" (LANG ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	800	LF	\$ 6.50	\$ 5,200.00	\$ 6.25	\$ 5,000.00	\$ 6.80	\$ 5,440.00	\$ 8.85	\$ 7,080.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	480	LF	\$ 6.00	\$ 2,880.00	\$ 5.70	\$ 2,736.00	\$ 6.30	\$ 3,024.00	\$ 8.30	\$ 3,984.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	7,310	LF	\$ 5.80	\$ 42,398.00	\$ 5.20	\$ 38,012.00	\$ 6.00	\$ 43,860.00	\$ 7.85	\$ 57,383.50
4.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
5.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
6.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	5	EA	\$ 450.00	\$ 2,250.00	\$ 815.00	\$ 4,075.00	\$ 900.00	\$ 4,500.00	\$ 700.00	\$ 3,500.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Item 6.	10	LF	\$ 4.00	\$ 40.00	\$ 4.00	\$ 40.00	\$ 5.00	\$ 50.00	\$ 6.00	\$ 60.00
8.	Automatic air release valve assembly and box, CIP, as per detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
9.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, as per detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	8,590	LF	\$ 0.50	\$ 4,295.00	\$ 0.47	\$ 4,037.30	\$ 0.50	\$ 4,295.00	\$ 0.80	\$ 6,872.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	175	LF	\$ 5.00	\$ 875.00	\$ 6.70	\$ 1,172.50	\$ 8.00	\$ 1,400.00	\$ 3.00	\$ 525.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "E" (LANG ROAD)					\$ 64,238.00		\$ 62,522.80		\$ 70,469.00		\$ 86,830.50
LINE "F" (ROCKY FORD ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,870	LF	\$ 5.80	\$ 39,846.00	\$ 5.20	\$ 35,724.00	\$ 6.00	\$ 41,220.00	\$ 7.85	\$ 53,929.50
2.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
4.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
5.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
6.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Item 5.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
7.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
8.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	6,870	LF	\$ 0.50	\$ 3,435.00	\$ 0.47	\$ 3,228.90	\$ 0.50	\$ 3,435.00	\$ 0.80	\$ 5,496.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "F" (ROCKY FORD ROAD)					\$ 51,511.00		\$ 50,037.90		\$ 56,905.00		\$ 70,457.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
LINE "G" (DURBINTOWN ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	5,120	LF	\$ 5.80	\$ 29,696.00	\$ 5.20	\$ 26,624.00	\$ 6.00	\$ 30,720.00	\$ 7.85	\$ 40,192.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	50	LF	\$ 80.00	\$ 4,000.00	\$ 75.00	\$ 3,750.00	\$ 85.00	\$ 4,250.00	\$ 97.00	\$ 4,850.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 900.00	\$ 1,800.00	\$ 700.00	\$ 1,400.00
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,250.00	\$ 2,500.00	\$ 1,265.00	\$ 2,530.00
7.	4-IN blowoff hydrant for all size water mains, INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,120	LF	\$ 0.50	\$ 2,560.00	\$ 0.47	\$ 2,406.40	\$ 0.50	\$ 2,560.00	\$ 0.80	\$ 4,096.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "G" (DURBINTOWN ROAD)					\$ 44,631.00		\$ 43,822.90		\$ 49,630.00		\$ 59,919.00
LINE "H" (KY 1054)											
1.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,640	LF	\$ 6.00	\$ 9,840.00	\$ 5.70	\$ 9,348.00	\$ 6.30	\$ 10,332.00	\$ 8.30	\$ 13,612.00
2.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	4,240	LF	\$ 5.80	\$ 24,592.00	\$ 5.20	\$ 22,048.00	\$ 6.00	\$ 25,440.00	\$ 7.85	\$ 33,284.00
3.	4 IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
4.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
5.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Item 4.	10	LF	\$ 4.00	\$ 40.00	\$ 4.00	\$ 40.00	\$ 5.00	\$ 50.00	\$ 6.00	\$ 60.00
6.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,880	LF	\$ 0.50	\$ 2,940.00	\$ 0.47	\$ 2,763.60	\$ 0.50	\$ 2,940.00	\$ 0.80	\$ 4,704.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	175	LF	\$ 5.00	\$ 875.00	\$ 6.70	\$ 1,172.50	\$ 8.00	\$ 1,400.00	\$ 3.00	\$ 525.00
10.	Stream crossing with crushed stone INCL furnishing, material, and labor.		LF	\$ 20.00	\$ -	\$ 36.00	\$ -	\$ 50.00	\$ -	\$ 40.00	\$ -
11.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "H" (KY 1054)					\$ 45,637.00		\$ 45,262.10		\$ 50,662.00		\$ 61,611.00
LINE "I" (WAGNER LANE)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,670	LF	\$ 5.80	\$ 15,486.00	\$ 5.20	\$ 13,884.00	\$ 6.00	\$ 16,020.00	\$ 7.85	\$ 20,959.50
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
3.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
4.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
5.	Cleanup and restoration INCL furnishing, material, and labor.	2,670	LF	\$ 0.50	\$ 1,335.00	\$ 0.47	\$ 1,254.90	\$ 0.50	\$ 1,335.00	\$ 0.80	\$ 2,136.00
6.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
7.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "I" (WAGNER LANE)					\$ 25,696.00		\$ 25,751.40		\$ 29,105.00		\$ 33,698.50
LINE "J" (STRINGTOWN-WEBBER ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,000	LF	\$ 5.80	\$ 34,800.00	\$ 5.20	\$ 31,200.00	\$ 6.00	\$ 36,000.00	\$ 7.85	\$ 47,100.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state maintained roads INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	25	LF	\$ 40.00	\$ 1,000.00	\$ 41.00	\$ 1,025.00	\$ 50.00	\$ 1,250.00	\$ 40.00	\$ 1,000.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	3	EA	\$ 450.00	\$ 1,350.00	\$ 815.00	\$ 2,445.00	\$ 900.00	\$ 2,700.00	\$ 700.00	\$ 2,100.00
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 600.00	\$ 2,400.00	\$ 1,020.00	\$ 4,080.00	\$ 1,250.00	\$ 5,000.00	\$ 1,265.00	\$ 5,060.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 5 and 6.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
8.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
9.	4 IN blowoff hydrant for all size water mains, INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
10.	Cleanup and restoration, INCL furnishing, material, and labor.	6,000	LF	\$ 0.50	\$ 3,000.00	\$ 0.47	\$ 2,820.00	\$ 0.50	\$ 3,000.00	\$ 0.80	\$ 4,800.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	25	LF	\$ 5.00	\$ 125.00	\$ 6.70	\$ 167.50	\$ 8.00	\$ 200.00	\$ 3.00	\$ 75.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "J" (STRINGTOWN-WEBBER ROAD)					\$ 50,955.00		\$ 50,697.50		\$ 57,700.00		\$ 69,791.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
LINE "K" (MARTIN ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	10,060	LF	\$ 5.80	\$ 58,348.00	\$ 5.20	\$ 52,312.00	\$ 6.00	\$ 60,360.00	\$ 7.85	\$ 78,971.00
2.	8-IN steel cover pipe, furnishing and installing, trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	130	LF	\$ 90.00	\$ 11,700.00	\$ 75.00	\$ 9,750.00	\$ 85.00	\$ 11,050.00	\$ 97.00	\$ 12,610.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	5	EA	\$ 550.00	\$ 2,750.00	\$ 725.00	\$ 3,625.00	\$ 600.00	\$ 3,000.00	\$ 579.00	\$ 2,895.00
5.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	6	EA	\$ 450.00	\$ 2,700.00	\$ 815.00	\$ 4,890.00	\$ 700.00	\$ 4,200.00	\$ 700.00	\$ 4,200.00
6.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	4	EA	\$ 600.00	\$ 2,400.00	\$ 1,020.00	\$ 4,080.00	\$ 1,100.00	\$ 4,400.00	\$ 1,265.00	\$ 5,060.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 5 and 6.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
8.	Automatic air release valve assembly and box, CIP, as per detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	10,060	LF	\$ 0.50	\$ 5,030.00	\$ 0.47	\$ 4,728.20	\$ 0.50	\$ 5,030.00	\$ 0.80	\$ 8,048.00
10.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	200	LF	\$ 5.00	\$ 1,000.00	\$ 6.70	\$ 1,340.00	\$ 8.00	\$ 1,600.00	\$ 3.00	\$ 600.00
11.	Tie-in to existing water mains, INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "K" (MARTIN ROAD)					\$ 86,408.00		\$ 84,205.20		\$ 93,940.00		\$ 116,072.00
LINE "L" (SPIRITO LANE)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,560	LF	\$ 5.80	\$ 20,648.00	\$ 5.20	\$ 18,512.00	\$ 6.00	\$ 21,360.00	\$ 7.85	\$ 27,946.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	40	LF	\$ 90.00	\$ 3,600.00	\$ 75.00	\$ 3,000.00	\$ 85.00	\$ 3,400.00	\$ 97.00	\$ 3,880.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
4.	Customer services same side of road as from main with meter setter, CIP, according to detail INCL meter.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 700.00	\$ 2,800.00	\$ 700.00	\$ 2,800.00
5.	Customer services opposite side of road as main with meter setter, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,100.00	\$ 2,200.00	\$ 1,265.00	\$ 2,530.00
6.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	3,560	LF	\$ 0.50	\$ 1,780.00	\$ 0.47	\$ 1,673.20	\$ 0.50	\$ 1,780.00	\$ 0.80	\$ 2,848.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00
10.	Stream crossing with crushed stone INCL furnishing, material, and labor.		LF	\$ 20.00	\$ -	\$ 36.00	\$ -	\$ 50.00	\$ -	\$ 40.00	\$ -
11.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "L" (MARTIN ROAD)					\$ 34,353.00		\$ 34,892.70		\$ 38,440.00		\$ 46,276.00
LINE "M" (HUGHES LANE)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,340	LF	\$ 6.50	\$ 15,210.00	\$ 6.25	\$ 14,625.00	\$ 6.80	\$ 15,912.00	\$ 8.85	\$ 20,709.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,660	LF	\$ 6.00	\$ 9,960.00	\$ 5.70	\$ 9,462.00	\$ 6.30	\$ 10,458.00	\$ 8.30	\$ 13,778.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling. INCL all associated tees, reducers, and bends (unclassified excavation).	7,630	LF	\$ 5.80	\$ 44,254.00	\$ 5.20	\$ 39,676.00	\$ 6.00	\$ 45,780.00	\$ 7.85	\$ 59,895.50
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	3	EA	\$ 550.00	\$ 1,650.00	\$ 725.00	\$ 2,175.00	\$ 600.00	\$ 1,800.00	\$ 579.00	\$ 1,737.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 900.00	\$ 1,800.00	\$ 700.00	\$ 1,400.00
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,250.00	\$ 2,500.00	\$ 1,265.00	\$ 2,530.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
7.	Customer services same side of road as from main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 700.00	\$ 700.00	\$ 700.00	\$ 700.00
8.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,100.00	\$ 1,100.00	\$ 1,265.00	\$ 1,265.00
9.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 5, 6, 7, and 8.	30	LF	\$ 4.00	\$ 120.00	\$ 4.00	\$ 120.00	\$ 5.00	\$ 150.00	\$ 6.00	\$ 180.00
10.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 400.00	\$ 400.00
11.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
12.	Cleanup and restoration INCL furnishing, material, and labor.	11,630	LF	\$ 0.50	\$ 5,815.00	\$ 0.47	\$ 5,466.10	\$ 0.50	\$ 5,815.00	\$ 0.80	\$ 9,304.00
13.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	50	LF	\$ 5.00	\$ 250.00	\$ 6.70	\$ 335.00	\$ 8.00	\$ 400.00	\$ 3.00	\$ 150.00
14.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "M" (HUGHES LANE)					\$ 84,809.00		\$ 82,544.10		\$ 92,115.00		\$ 116,716.50
LINE "N" (JUNCTION PIKE)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,550	LF	\$ 5.80	\$ 14,790.00	\$ 5.20	\$ 13,260.00	\$ 6.00	\$ 15,300.00	\$ 7.85	\$ 20,017.50
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	60	LF	\$ 90.00	\$ 5,400.00	\$ 75.00	\$ 4,500.00	\$ 85.00	\$ 5,100.00	\$ 97.00	\$ 5,820.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 600.00	\$ 2,400.00	\$ 1,020.00	\$ 4,080.00	\$ 1,250.00	\$ 5,000.00	\$ 1,265.00	\$ 5,060.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 7 and 8.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
8.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
9.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	2,550	LF	\$ 0.50	\$ 1,275.00	\$ 0.47	\$ 1,198.50	\$ 0.50	\$ 1,275.00	\$ 0.80	\$ 2,040.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	150	LF	\$ 5.00	\$ 750.00	\$ 6.70	\$ 1,005.00	\$ 8.00	\$ 1,200.00	\$ 3.00	\$ 450.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "N" (JUNCTION PIKE)					\$ 32,245.00		\$ 34,108.50		\$ 38,875.00		\$ 43,154.50
LINE "O" (MOORE/RUDDLES FORT ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,360	LF	\$ 5.80	\$ 19,488.00	\$ 5.20	\$ 17,472.00	\$ 6.00	\$ 20,160.00	\$ 7.85	\$ 26,376.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	50	LF	\$ 90.00	\$ 4,500.00	\$ 75.00	\$ 3,750.00	\$ 85.00	\$ 4,250.00	\$ 97.00	\$ 4,850.00
3.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 700.00	\$ 1,400.00	\$ 700.00	\$ 1,400.00
4.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,100.00	\$ 2,200.00	\$ 1,265.00	\$ 2,530.00
5.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
6.	Cleanup and restoration INCL furnishing, material, and labor.	3,360	LF	\$ 0.50	\$ 1,680.00	\$ 0.47	\$ 1,579.20	\$ 0.50	\$ 1,680.00	\$ 0.80	\$ 2,688.00
7.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	50	LF	\$ 5.00	\$ 250.00	\$ 6.70	\$ 335.00	\$ 8.00	\$ 400.00	\$ 3.00	\$ 150.00
8.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "O" (MOORE/RUDDLES FORT ROAD)					\$ 32,018.00		\$ 31,406.20		\$ 35,090.00		\$ 42,662.00
LINE "P" (DRYDEN ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	5,630	LF	\$ 5.80	\$ 32,654.00	\$ 5.20	\$ 29,276.00	\$ 6.00	\$ 33,780.00	\$ 7.85	\$ 44,195.50
2.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
4.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	3	EA	\$ 450.00	\$ 1,350.00	\$ 815.00	\$ 2,445.00	\$ 700.00	\$ 2,100.00	\$ 700.00	\$ 2,100.00
5.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,100.00	\$ 1,100.00	\$ 1,265.00	\$ 1,265.00
6.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 5 and 6.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,630	LF	\$ 0.50	\$ 2,815.00	\$ 0.47	\$ 2,646.10	\$ 0.50	\$ 2,815.00	\$ 0.80	\$ 4,504.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	100	LF	\$ 5.00	\$ 500.00	\$ 6.70	\$ 670.00	\$ 8.00	\$ 800.00	\$ 3.00	\$ 300.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "P" (DRYDEN ROAD)					\$ 43,349.00		\$ 42,282.10		\$ 47,295.00		\$ 58,531.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
U.S. 27 NORTH BOOSTER PUMPING STATION											
1.	Pumping station INCL furnishing, trenching, laying, building, foundation, telemetry system, electrical, VFDs, all taps into existing mains, line work, and backfilling, including all associated tees, reducers, and bends (unclassified excavation).	1	EA	\$ 130,000.00	\$ 130,000.00	\$ 137,000.00	\$ 137,000.00	\$ 145,000.00	\$ 145,000.00	\$ 166,000.00	\$ 166,000.00
CARL STEVENS ROAD BOOSTER PUMPING STATION											
1.	Pumping station INCL furnishing, trenching, laying, building, foundation, telemetry system, electrical, VFDs, all taps into existing mains, line work, and backfilling, including all associated tees, reducers, and bends. This includes the 2 IN water main relocation on the site as shown on drawings (unclassified excavation).	1	EA	\$ 130,000.00	\$ 130,000.00	\$ 129,542.10	\$ 129,542.10	\$ 134,000.00	\$ 134,000.00	\$ 127,000.00	\$ 127,000.00
COLEMANSVILLE TANK PRESSURE ZONE-REPLACE EXISTING METERS											
1.	Reconfigure existing customer services in existing meter box with new tandem meter setter and new individual pressure reducing valve, CIP w/ the existing meter according to detail in the Colemansville Tank pressure zone as indicated for any meter above 100 psi or directed by OWNER. See pressure map in appendix.	50	EA	\$ 300.00	\$ 15,000.00	\$ 975.00	\$ 48,750.00	\$ 1,000.00	\$ 50,000.00	\$ 430.00	\$ 21,500.00
KELAT TANK PRESSURE ZONE-REPLACE EXISTING METERS											
1.	Reconfigure existing customer services in existing meter box with new tandem meter setter and new individual pressure reducing valve, CIP w/existing meter according to detail in the Kelat Tank pressure zone as indicated for any meter above 100 psi or directed by OWNER. See pressure map in appendix.	50	EA	\$ 300.00	\$ 15,000.00	\$ 975.00	\$ 48,750.00	\$ 1,000.00	\$ 50,000.00	\$ 430.00	\$ 21,500.00
ENGINEER'S COMPUTED TOTAL					\$ 1,403,925.00		\$ 1,500,000.00		\$ 1,699,326.00		\$ 1,797,500.50
CONTRACTOR'S COMPUTED TOTAL					\$ 1,403,925.00		\$ 1,500,000.00		\$ 1,699,326.00		\$ 1,797,500.50

				Southern Backhoe, inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
ALTERNATIVE BID: LINE "Q" (PUGHS FERRY ROAD)											
1.	4-IN PVC Class 200 pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,650	LF	\$ 6.50	\$ 43,225.00	\$ 6.25	\$ 41,562.50	\$ 6.80	\$ 45,220.00	\$ 10.85	\$ 72,152.50
2.	4-IN DIP pipe, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	885	LF	\$ 18.00	\$ 15,930.00	\$ 13.70	\$ 12,124.50	\$ 20.00	\$ 17,700.00	\$ 24.00	\$ 21,240.00
3.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	60	LF	\$ 90.00	\$ 5,400.00	\$ 75.00	\$ 4,500.00	\$ 85.00	\$ 5,100.00	\$ 97.00	\$ 5,820.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main w/tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 900.00	\$ 900.00	\$ 700.00	\$ 700.00
6.	Customer services opposite side of road as main w/tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
7.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
8.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	6,650	LF	\$ 0.50	\$ 3,325.00	\$ 0.65	\$ 4,322.50	\$ 0.50	\$ 3,325.00	\$ 0.80	\$ 5,320.00
10.	Stream crossing with directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe DIA should be sized so that it can carry a separate PE portable water pipe with an inside DIA of 4 IN. PE directional drill casing pipe and 4-IN inside DIA PE water main, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	75	LF	\$ 80.00	\$ 6,000.00	\$ 145.00	\$ 10,875.00	\$ 225.00	\$ 16,875.00	\$ 97.00	\$ 7,275.00
11.	Stream crossing with PVC SDR 35 cover pipe and concrete cap INCL furnishing, material, and labor.	35	LF	\$ 80.00	\$ 2,800.00	\$ 66.00	\$ 2,310.00	\$ 70.00	\$ 2,450.00	\$ 40.00	\$ 1,400.00
12.	Special creek crossing meter box per details INCL valve, meter, meter box, and furnishing, material, and labor.	1	EA	\$ 950.00	\$ 950.00	\$ 1,130.00	\$ 1,130.00	\$ 2,100.00	\$ 2,100.00	\$ 600.00	\$ 600.00
TOTAL: ALTERNATIVE BID: LINE "Q" (PUGHS FERRY ROAD)					\$ 82,980.00		\$ 83,289.50		\$ 99,320.00		\$ 120,430.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
ALTERNATIVE BID: LINE "R" (DIXON ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,340	LF	\$ 6.50	\$ 15,210.00	\$ 6.25	\$ 14,625.00	\$ 6.80	\$ 15,912.00	\$ 10.85	\$ 25,389.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	880	LF	\$ 6.00	\$ 5,280.00	\$ 5.70	\$ 5,016.00	\$ 6.30	\$ 5,544.00	\$ 10.30	\$ 9,064.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,930	LF	\$ 5.80	\$ 11,194.00	\$ 5.20	\$ 10,036.00	\$ 6.00	\$ 11,580.00	\$ 9.85	\$ 19,010.50
4.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	80	LF	\$ 90.00	\$ 7,200.00	\$ 75.00	\$ 6,000.00	\$ 85.00	\$ 6,800.00	\$ 97.00	\$ 7,760.00
5.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 50.00	\$ 1,000.00
6.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
7.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, as according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 900.00	\$ 900.00	\$ 700.00	\$ 700.00
8.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, as according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	5,150	LF	\$ 0.50	\$ 2,575.00	\$ 0.65	\$ 3,347.50	\$ 0.50	\$ 2,575.00	\$ 0.80	\$ 4,120.00
10.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	25	LF	\$ 5.00	\$ 125.00	\$ 6.70	\$ 167.50	\$ 8.00	\$ 200.00	\$ 3.00	\$ 75.00
11.	Stream crossing with crushed stone INCL furnishing, material, and labor.	0	LF	\$ 20.00	\$ -	\$ 36.00	\$ -	\$ 50.00	\$ -	\$ 40.00	\$ -
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
13.	Stream crossing with PVC SDR 35 cover pipe and concrete cap INCL furnishing, material, and labor.	50	LF	\$ 70.00	\$ 3,500.00	\$ 66.00	\$ 3,300.00	\$ 70.00	\$ 3,500.00	\$ 40.00	\$ 2,000.00
TOTAL: ALTERNATIVE BID: LINE "R" (DIXON ROAD)					\$ 48,684.00		\$ 47,872.00		\$ 52,361.00	\$ -	\$ 72,930.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
ALTERNATIVE BID: LINE "S" (ARROWHEAD LAKE ROAD)											
1.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	640	LF	\$ 6.00	\$ 3,840.00	\$ 5.70	\$ 3,648.00	\$ 7.50	\$ 4,800.00	\$ 10.30	\$ 6,592.00
2.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	4,680	LF	\$ 5.80	\$ 27,144.00	\$ 5.20	\$ 24,336.00	\$ 7.25	\$ 33,930.00	\$ 9.85	\$ 46,098.00
3.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified OPEN CUT (water pipe not included).	20	LF	\$ 90.00	\$ 1,800.00	\$ 75.00	\$ 1,500.00	\$ 85.00	\$ 1,700.00	\$ 97.00	\$ 1,940.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 700.00	\$ 700.00	\$ 700.00	\$ 700.00
6.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 1,265.00	\$ 1,265.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,320	LF	\$ 0.50	\$ 2,660.00	\$ 0.65	\$ 3,458.00	\$ 0.50	\$ 2,660.00	\$ 0.80	\$ 4,256.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	25	LF	\$ 5.00	\$ 125.00	\$ 6.70	\$ 167.50	\$ 8.00	\$ 200.00	\$ 3.00	\$ 75.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 956.00	\$ 956.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: ALTERNATIVE BID: LINE "S" (ARROWHEAD LAKE ROAD)					\$ 41,519.00		\$ 39,510.50		\$ 50,890.00		\$ 66,752.00
ALTERNATIVE BID: LINE "T" (ARROWHEAD LAKE ROAD)											
1.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,220	LF	\$ 7.00	\$ 15,540.00	\$ 5.70	\$ 12,654.00	\$ 7.50	\$ 16,650.00	\$ 10.30	\$ 22,866.00
2.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,060	LF	\$ 6.00	\$ 6,360.00	\$ 5.20	\$ 5,512.00	\$ 7.25	\$ 7,685.00	\$ 9.85	\$ 10,441.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
4.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	7	EA	\$ 450.00	\$ 3,150.00	\$ 815.00	\$ 5,705.00	\$ 900.00	\$ 6,300.00	\$ 700.00	\$ 4,900.00
5.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
6.	Cleanup and restoration INCL furnishing, material, and labor.	3,280	LF	\$ 1.00	\$ 3,280.00	\$ 0.65	\$ 2,132.00	\$ 0.50	\$ 1,640.00	\$ 0.80	\$ 2,624.00
TOTAL: ALTERNATIVE BID: LINE "T" (ARROWHEAD LAKE ROAD					\$ 29,480.00		\$ 29,328.00		\$ 35,375.00		\$ 44,110.00
ENGINEER'S COMPUTED TOTAL (ALTERNATIVE BID)					\$ 202,663.00		\$ 200,000.00		\$ 237,946.00		\$ 304,223.00
CONTRACTOR'S COMPUTED TOTAL (ALTERNATIVE BID)					\$ 202,663.00		\$ 200,000.00		\$ 237,946.00		\$ 304,223.00

* CONTRACTOR'S COMPUTED TOTAL

Reviewed by

APPENDIX D
2010 MONTHLY WATER RATES

FOR HARRISON, BOURBON, NICHOLES

AND SCOTT COUNTIES

P.S.C. Ky. No. 7

Original Sheet No. 27

HARRISON COUNTY WATER ASSOCIATION, INC.

Cancelling P.S.C. Ky. No. _____

Sheet No. _____

CLASSIFICATION OF SERVICE

PHASE FIVE
MONTHLY RATES FOR SERVICE RENDERED
AFTER APRIL 27, 2004

MONTHLY USAGE	RATE
Connection Fees:	
5/8 x 3/4 Inch	\$ 500.00
1 Inch	\$ 500.00
1 1/2 Inch	\$1,100.00
2 Inch	\$1,210.00

Connections greater than 2 inch will be made at the actual cost of installation.

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

APR 27 2000

PURSUANT TO 807 KAR 5011,
SECTION 9(1)
BY Stephan D. Bell
SECRETARY OF THE COMMISSION

DATE OF ISSUE 4 27 2000 DATE EFFECTIVE 4 27 2000
Month Day Year Month Day Year

ISSUED BY William R. Anderson President P. O. Box 215, Cynthiana, KY 41031
Name of Officer Title Address

Issued by authority of an Order of the Public Service Commission of
Kentucky in Case No. 2000-139 dated May 15, 2000

APPENDIX B

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 2009-00457 DATED DEC. 16 2009

The following rates and charges are prescribed for the customers in the area served by Harrison County Water Association. All other rates and charges not specifically mentioned herein shall remain the same as those in effect under authority of the Commission prior to the effective date of this Order.

Monthly Water Rates

5/8" x 3/4" Meter

First 2,000 Gallons	\$18.31 Minimum Bill
Next 1,000 Gallons	6.03 Per 1,000 Gallons
Next 2,000 Gallons	5.37 Per 1,000 Gallons
Next 45,000 Gallons	5.37 Per 1,000 Gallons
Over 50,000 Gallons	4.53 Per 1,000 Gallons

3/4" Meter

First 3,000 Gallons	\$22.34 Minimum Bill
Next 2,000 Gallons	5.87 Per 1,000 Gallons
Next 45,000 Gallons	5.37 Per 1,000 Gallons
Over 50,000 Gallons	4.53 Per 1,000 Gallons

1" Meter

First 5,000 Gallons	\$34.08 Minimum Bill
Next 45,000 Gallons	5.37 Per 1,000 Gallons
Over 50,000 Gallons	4.53 Per 1,000 Gallons

1 1/2" Meter

First 10,000 Gallons	\$50.93 Minimum Bill
Next 40,000 Gallons	5.37 Per 1,000 Gallons
Over 50,000 Gallons	4.53 Per 1,000 Gallons

2" Meter

First 15,000 Gallons	\$87.78 Minimum Bill
Next 35,000 Gallons	5.37 Per 1,000 Gallons
Over 50,000 Gallons	4.53 Per 1,000 Gallons

Bulk Loading Station Water Rates

\$6.58 per 1,000 Gallons

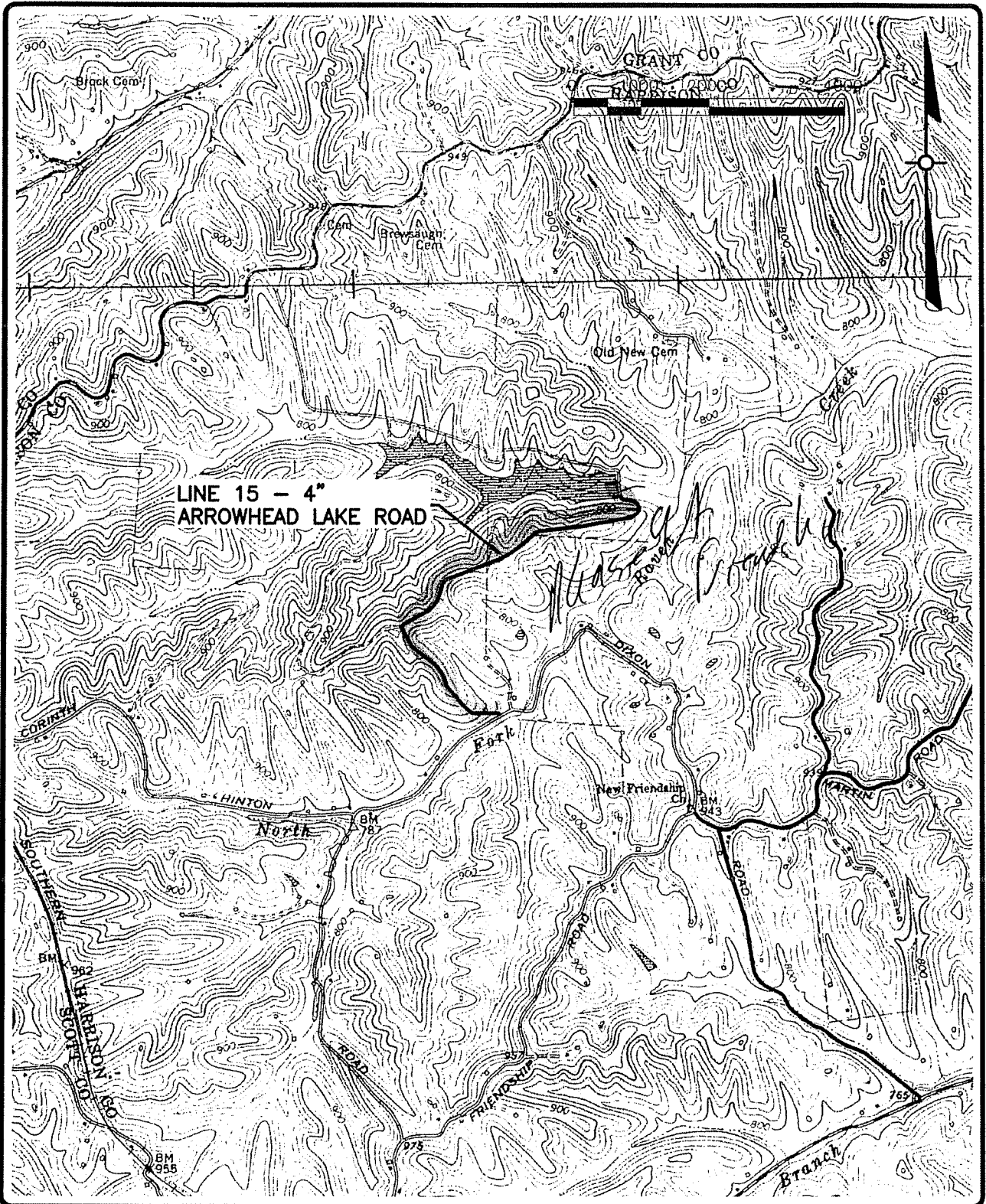
**APPENDIX E
FINANCIAL BREAKDOWN**

HARRISON COUNTY WATER ASSOCIATION FINANCIAL REPORT
(Based on 2009 Review)

Provided by Ray, Foley, Hensley & Company, PLLC

Source of Supply	\$798,360
Maintenance, Expense, and Treatment	\$175,836
Other Expenses	\$52,868
Administrative and General Expenses	\$583,078
Total Expenses	\$1,610,142
Principal and Interest	\$249,693
10% Coverage	\$24,969
Depreciation	\$409,927
Total Expenses Including Depreciation	\$2,294,731

File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:25am

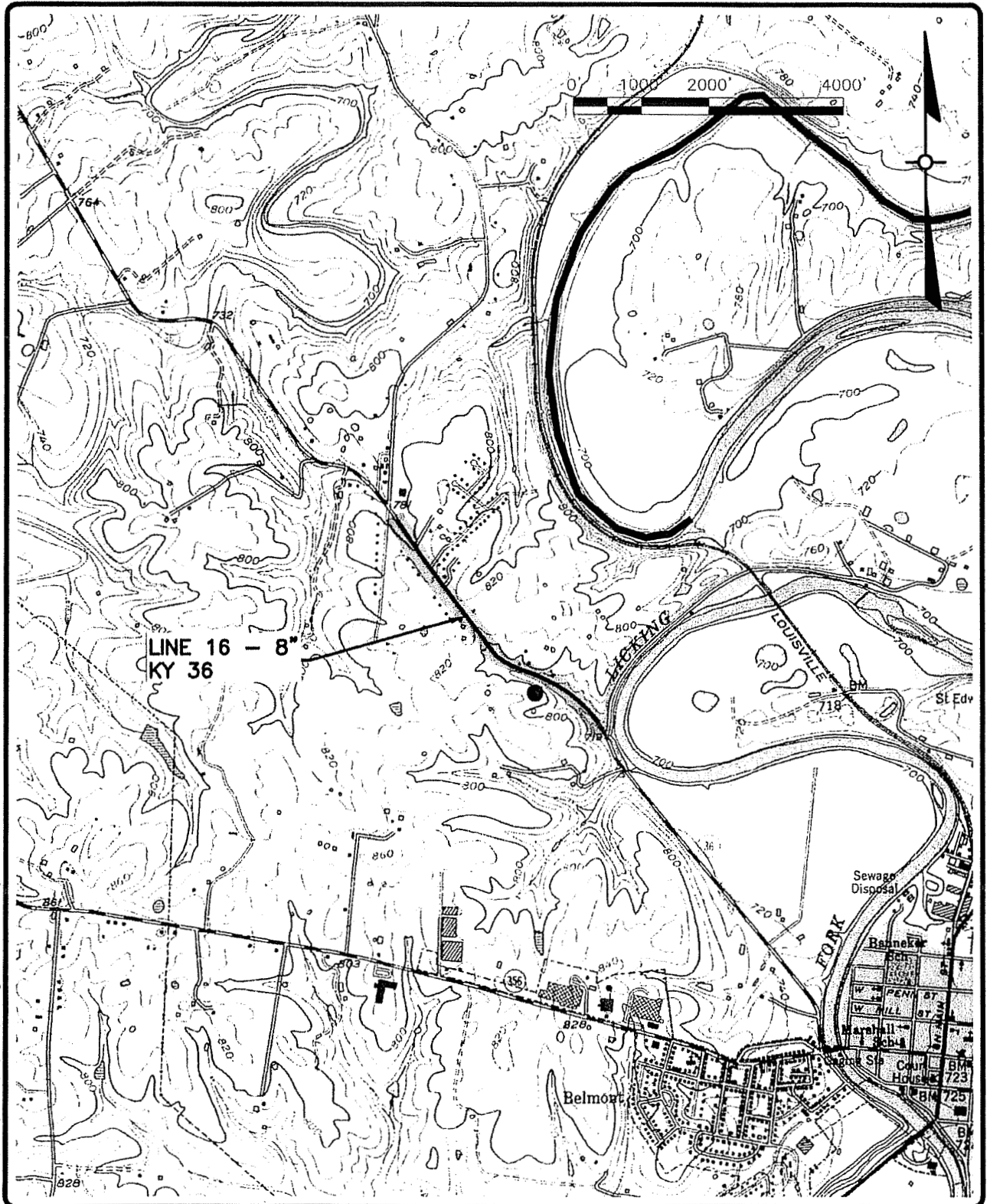


LINE 15
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY



TOPO FIG. 10

File: S:\05\201--250\224\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:26am

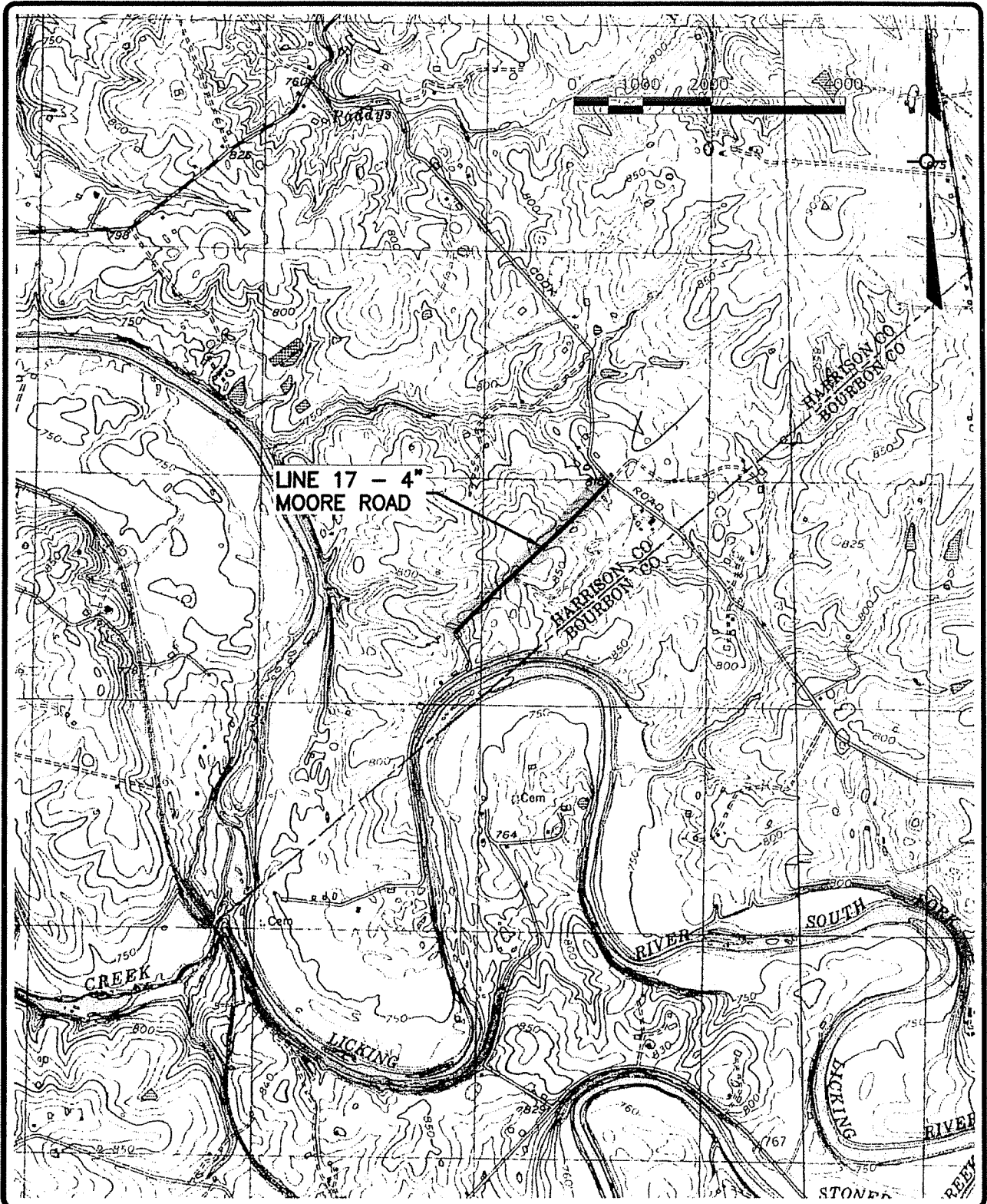


LINE 16
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY



TOPO FIG. 11

File: S:\05\201---250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:27am

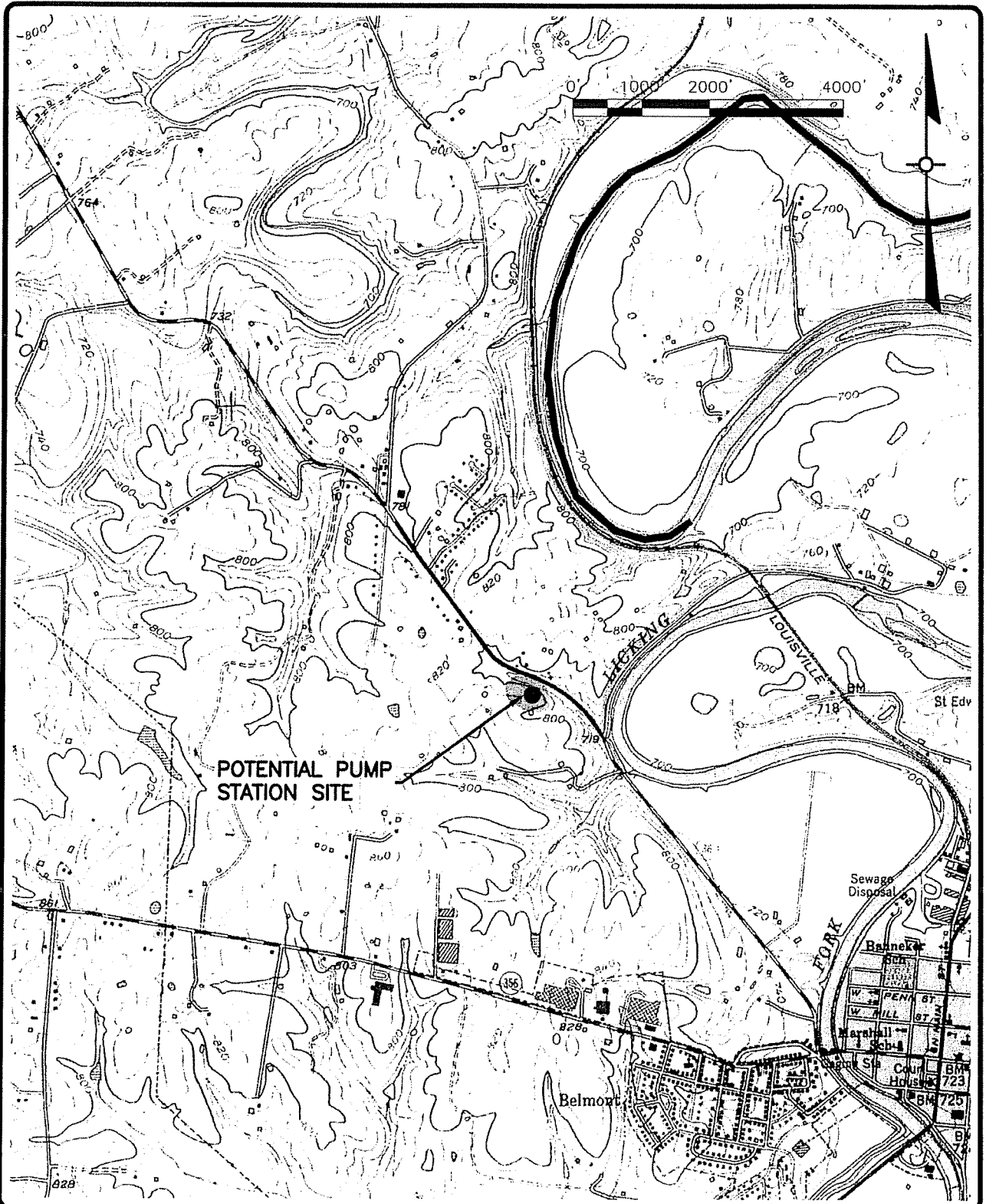


LINE 17
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY



TOPO FIG. 12

File: S:\05\201---250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 -- 11:28am

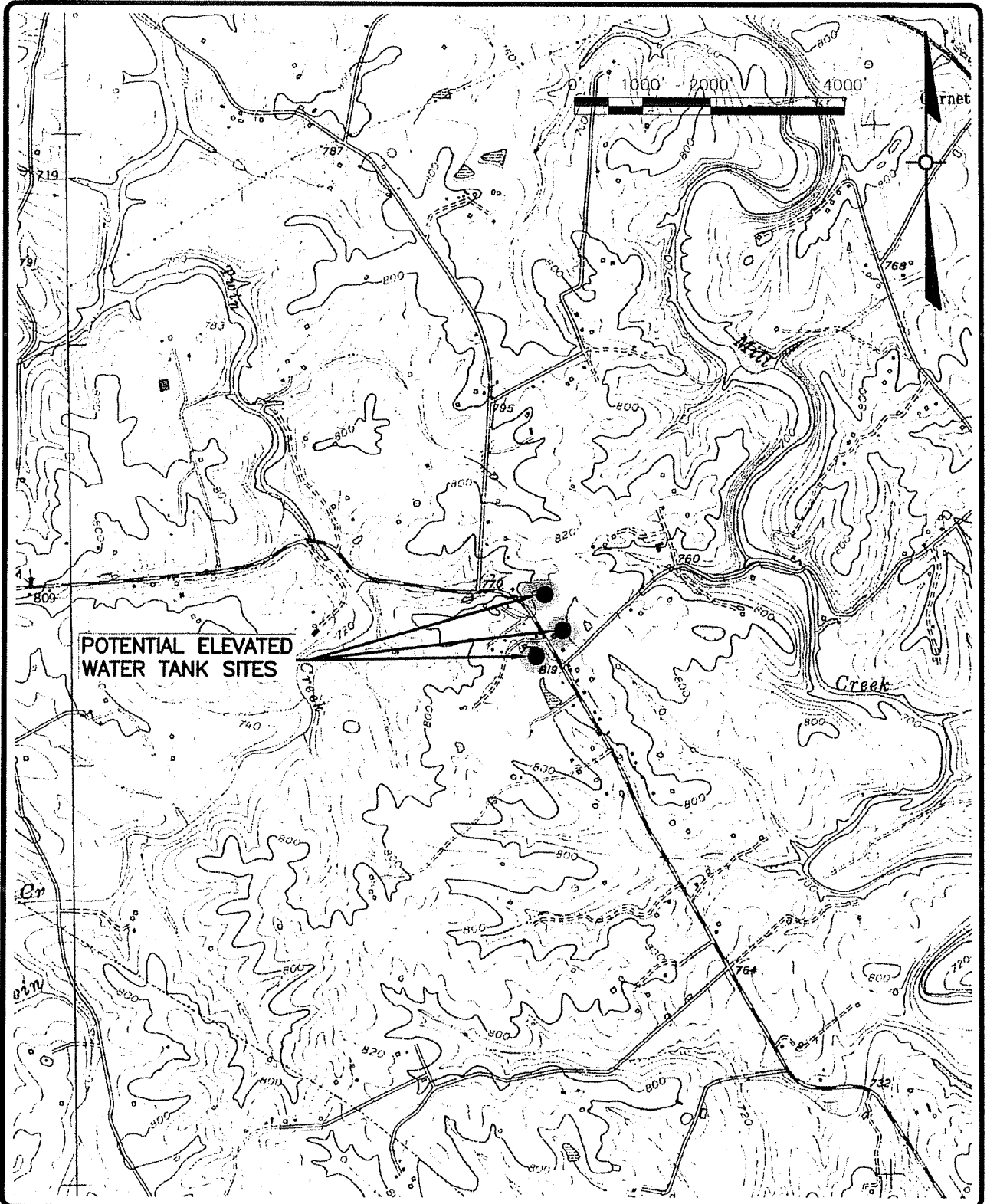


**POTENTIAL PUMP STATION SITE
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY**



TOPO FIG. 13

File: S:\05\201\---250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:28am



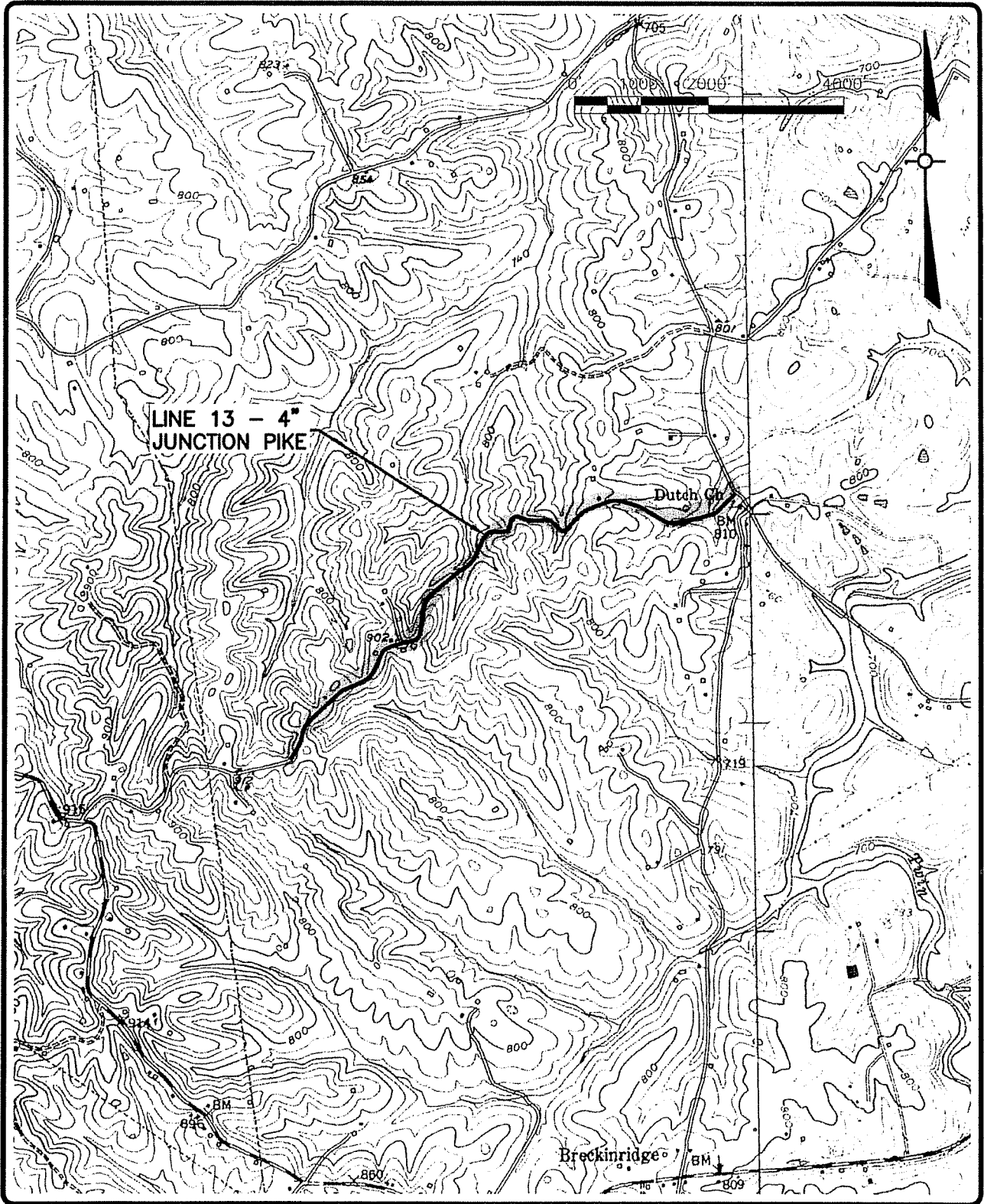
**POTENTIAL ELEVATED WATER TANK SITES
TOPO MAPPING**

**WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY**



TOPO FIG. 14

File: S:\05\201--250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:23am

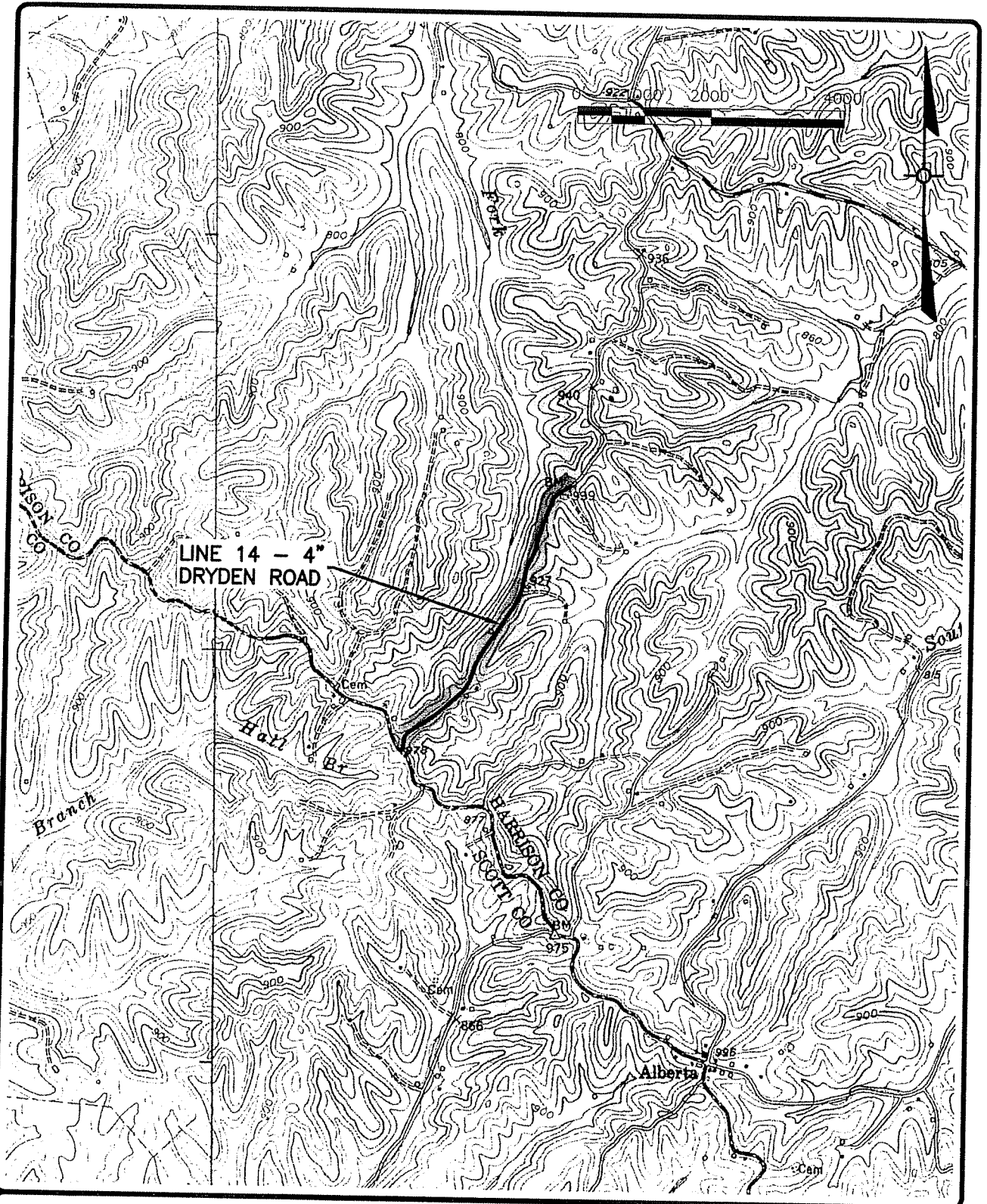


**LINE 13
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY**



TOPO FIG. 8

File: S:\05\201---250\224\234\Acad\TopoMaps.dwg Time: Apr 09, 2008 - 11:24am



LINE 14
TOPO MAPPING
WATER SYSTEM IMPROVEMENTS - PHASE 10
PRELIMINARY ENGINEERING
HARRISON COUNTY WATER ASSOCIATION
CYNTHIANA, KENTUCKY

STRAND
ASSOCIATES, INC.
ENGINEERS

TOPO FIG. 9

Appendix, Exhibit 2 – Summary Addendum to Preliminary Engineering Report

SUMMARY ADDENDUM
TO
PRELIMINARY ENGINEERING REPORT

DATED April 2008

FOR

Harrison County Water Association – Water System Expansions & Improvements,
Phase 10 Project (Contract 30)
(Name of Project)

APPLICANT CONTACT PERSON William R. Toadvine

APPLICANT PHONE NUMBER (859) 234-4284

APPLICANT TAX IDENTIFICATION NUMBER (TIN) 61-0904390

ITEMS IN BOLD ITALIC PRINT ARE APPLICABLE TO SEWER SYSTEMS.

In order to avoid unnecessary delays in application processing, the applicant and its consulting engineer should prepare a summary of the preliminary report in accordance with this Guide.

Please complete the applicable sections of the Summary Addendum. ***Please note, if water and sewer revenue will both be taken as security for the loan, all user information and characteristics of both utility systems will be needed even though the project will benefit only one utility.***

Feasibility reviews and grant determinations may be processed more accurately and more rapidly if the Summary Addendum is submitted simultaneously with the preliminary engineering report, or as soon thereafter as possible.

I. GENERAL

- A. Proposed Project: Provide a brief description of the proposed project. In addition to this summary, the applicant/engineer should submit a project map of the service area.

The Harrison County Water Association (HCWA) Water System Expansions & Improvements, Phase 10 Project (Contract 30) consists of constructing approximately 27-miles of 4" and 8" water mains, a water storage tank, a pump station, and related appurtenances throughout Harrison County, Kentucky. This project will improve pressure and supply to approximately 500 underserved users and proved a reliable source of potable water to 102 unserved users.

Exhibit 1 to the appendix of the Preliminary Engineering Report shows the locations of the proposed expansions and improvements.

II. FACILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM

- A. *Sewage Treatment: N/A*

1. *Type* _____

2. *Method of Sludge Disposal* _____

3. *Cost per 1,000 gallons if sewage is contracted:*

4. *Date Constructed* _____

B. *Treatment Capacity of Sewage Treatment Plant* N/A

C. *Type of Sewage Collector System (Describe)* N/A

D. *Number and Capacity of Sewage Lift Stations* N/A

E. *Sewage Collection System: N/A*

Lineal Feet of Collector Lines, by Size 6" _____ 8" _____

10" _____ 12" _____ *Larger* _____

Date(s) Constructed _____

- F. *Conditions of Existing System: Briefly describe the conditions and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.*

N/A

III. FACILITY CHARACTERISTICS OF EXISTING WATER SYSTEM

1. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

The HCWA purchases treated water from the City of Cynthiana, the Kentucky American Water Company (KAWC), the Nicholas County Water District (NCWD), the City of Paris, and the City of Millersburg. The HCWA currently purchases an average of 1.151 MGD from all suppliers with a peak usage of 1.162 MGD, which occurred on August 1, 2007.

The City of Cynthiana has a raw water intake, a high-service pump station, and a raw water transmission main that enables it to pump water from the main fork of the Licking River. The City of Cynthiana also operates a water treatment plant rated for a 24-hour capacity of 6 MGD. HCWA currently purchases an average of 0.967 MGD from Cynthiana and has approximately 40-years left on its water purchase agreement. The agreement with Cynthiana has no set limit on the volume of potable water that may be purchased by HCWA each month.

The KAWC has a raw water intake at the Kentucky River and two treatment plants with a capacity of 40 MGD and 25 MGD located at the Kentucky River and at Jacobson Park in Lexington, respectively. HCWA currently purchases an average of 0.088 MGD from KAWC and has approximately 33-years left on its water purchase agreement. The agreement with KAWC limits the volume of potable water that may be purchased by HCWA to 3,000,000 gallons per month.

The HCWA currently purchases an average of 0.057 MGD, 0.009 MGD, and 0.030 MGD from NCWD, Paris, and Millersburg, respectively. The agreements with NCWD and Paris limit the volume of potable water that may be purchased by HCWA to 500,000 gallons per month, while the agreement with Millersburg permits sales up to 600,000 gallons per month.

If the applicant purchases water:

Seller(s):

1. The City of Cynthiana
2. Kentucky – American Water Company
3. Nicholas County Water District
4. The City of Paris
5. The City of Millersburg

Price/1,000 gallons:

1. \$1.85 per 1,000 gallons rate for the City of Cynthiana
2. \$2.88 per 1,000 gallons rate for the Kentucky-American Water Co.
3. \$2.10 per 1,000 gallons rate for the Nicholas County Water District
4. \$2.25 per 1,000 gallons rate for the City of Paris
5. \$2.25 per 1,000 gallons rate for the City of Millersburg

Present Estimated Market Value of Existing System: \$12,044,711*

*Note: Market value as of 12/31/07 per financial audit report by Ray, Foley, Hensley & Company, PLLC

2. Water Storage:

Type:	Ground Storage Tank	<u> </u>	Elevated Tank	<u> </u>
	Standpipe	<u> </u>	Other	<u> </u>
		<u> </u>		<u> </u>
Number of Storage Structures		<u> </u>		<u> </u>
		<u> </u>		<u> </u>
Total Storage Volume Capacity		<u> </u>		<u> </u>
		<u> </u>		<u> </u>
Date Storage Tank(s) Constructed		<u> </u>		<u> </u>
		<u> </u>		<u> </u>

3. Water Distribution System:

Pipe Material	PVC, Ductile Iron, & AC (Transite)			
Lineal Feet of Pipe:	2" Diameter	<u> </u>	3"	<u> </u>
	4"	<u> </u>	6"	<u> </u>
	8"	<u> </u>	10"	<u> </u>

Dates(s) Water Lines Constructed 1969 to present.

Number and Capacity of Pump Station(s) 3 – 250 gpm Booster Pumping Stations,
 2 – 150 gpm Booster Pumping Stations, 1 – 125 gpm Booster Pumping Station,
 2 – 85 gpm Booster Pumping Stations, and 1 – 75 gpm Booster Pumping Station.

4. Condition of Existing Water System:

Briefly describe the condition and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

The existing system is in fairly good condition and is well maintained. Future maintenance could include water tank and pump station upgrades and a repainting of structures.

5. Percentage of Water Loss Existing System: 20.5% during the 12-month period from January 1, 2007 through December 31, 2007. The percent loss for December 2007 was 10.10%, which was after the defective water mains were replaced.

IV. EXISTING LONG-TERM INDEBTEDNESS

I. List of Bonds and Notes:

Date of Issue	Bond/Note Holder	Principal Balance	Payment Date	Bond Type Water/Sewer*	Amount on Deposit in Reserve Account
19 79 Issue	FmHA	\$ 671,653	See Note	100 %	%
19 95 Issue	FmHA	\$ 528,604	See Note	100 %	%
20 01 Issue	FmHA	\$ 629,218	See Note	100 %	%

Note: The principal payments are due at various times during the year. The principal balances shown above are as of 12/31/07 per financial audit report by Ray, Foley, Hensley & Company, PLLC.

* If a combined issue, show attributable portion to each system.

II. Principal and Interest Payments: (Begin with Next Fiscal Year Payment)

Date of Issue	Bond/Note Holder	Principal Payment	Interest Payment	Principal Payment	Interest Payment	Principal Payment	Interest Payment
		Payment Year 2009		Payment Year 2010		Payment Year 2011	
19 79 Issue	FmHA						
19 95 Issue	FmHA						
20 01 Issue	FmHA						
All Issue		\$ 109,574	\$ 85,305	\$ 115,102	\$ 79,777	\$ 120,908	\$ 73,971

V. EXISTING SHORT-TERM INDEBTEDNESS

A. List of All Short Term Debts: (Do Not Show Any Debt Listed in Paragraph IV Above)

<u>Lender or Lessor</u>	<u>Date of Issue (Month & Year)</u>	<u>Principal Balance</u>	<u>Purpose (Water and/ or Sewer)</u>	<u>Payment Date</u>	<u>Principal & Interest Payment (P & I)</u>	<u>Date to Be Paid In Full</u>
USDA	N/A	\$ 814,408	Water	See Note		N/A

Note: The principal payments are due at various times during the year. The principal balances shown above are as of 12/31/07 per financial audit report by Ray, Foley, Hensley & Company, PLLC.

VI. LAND AND RIGHTS - EXISTING SYSTEM(S)

Number of Treatment Plant Sites:	Water	<u>0</u>	<i>Sewer</i>	<i>N/A</i>
Number of Storage Tank Sites:	Water	<u>10</u>	<i>Sewer</i>	<i>N/A</i>
Number of Pump Stations:	Water	<u>9</u>	<i>Sewer</i>	<i>N/A</i>
Total Acreage:	Water	<u>Unknown</u>	<i>Sewer</i>	<i>N/A</i>
Purchase Price:	Water	<u>Unknown</u>	<i>Sewer</i>	<i>N/A</i>

VII. NUMBER OF EXISTING USERS

	Water (as of 12/31/2007)	<i>Sewer</i>
Residential (In Town)		<i>N/A</i>
Residential (Out of Town)	5,342	<i>N/A</i>
Non-Residential (In Town)		<i>N/A</i>
Non-Residential (Out of Town)	132	<i>N/A</i>
Total	5,474	<i>N/A</i>

Number of Total Potential Users Living in the Service Area unknown

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This Classification should include those meters serving individual residences.

VIII. CURRENT WATER AND SEWER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION

<u>Meter Size</u>	<u>Water Connection Fee</u>	<u>Sewer Connection Fee</u>
<u>5/8" x 3/4"</u>	<u>\$ 600</u>	<u>\$ N/A</u>
<u>3/4" - Inch</u>	<u>\$ N/A</u>	<u>\$ N/A</u>
<u>1" - Inch</u>	<u>\$ 800</u>	<u>\$ N/A</u>
<u>1" - 1/2 Inch</u>	<u>\$ 1,100</u>	<u>\$ N/A</u>
<u>2" - Inch</u>	<u>\$ 1,210</u>	<u>\$ N/A</u>
<u>3" - Inch</u>	<u>\$ N/A</u>	<u>\$ N/A</u>
<u>4" - Inch</u>	<u>\$ N/A</u>	<u>\$ N/A</u>
<u>6" - Inch</u>	<u>\$ N/A</u>	<u>\$ N/A</u>

IX. SEWER RATES - EXISTING SYSTEM

Percentage of Water Bill N/A % *Minimum Charge* N/A
Other: (If Charge Not Based on Water Bill) N/A

X. WATER RATES - EXISTING SYSTEM (See Attached Sheets 7A & 7B)

XI. ANALYSIS OF ACTUAL SEWER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD N/A

XII. ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD (See Attached Sheet 7C)

XIII. FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM N/A

- A. *Sewage Treatment* N/A
 - 1. Type* N/A
 - 2. Method of Sludge Disposal* N/A
 - 3. Cost per 1,000 gallons if sewage is contracted:*
 \$ N/A
 - 4. Date Constructed* N/A

FOR HARRISON, BOURBON, NICHOLAS
AND SCOTT COUNTIES

P.S.C. Ky. No. 7

Original Sheet No. 25

HARRISON COUNTY WATER ASSOCIATION, INC. Cancelling P.S.C. Ky. No. _____

Sheet No. _____

CLASSIFICATION OF SERVICE

PHASE FIVE
MONTHLY RATES FOR SERVICE RENDERED
AFTER APRIL 27, 2004

MONTHLY USAGE	RATE
<u>5/8 X 3/4 Inch Meter</u>	
(I) First 2,000 gallons	\$ 15.15 Minimum Bill
(I) Next 1,000 gallons	\$ 5.45 Per 1,000 gallons
(I) Next 2,000 gallons	\$ 5.29 Per 1,000 gallons
(I) Next 45,000 gallons	\$ 4.79 Per 1,000 gallons
(I) Over 50,000 gallons	\$ 3.95 Per 1,000 gallons
<u>3/4 Inch Meter</u>	
(I) First 3,000 gallons	\$ 20.60 Minimum Bill
(I) Next 2,000 gallons	\$ 5.29 Per 1,000 gallons
(I) Next 45,000 gallons	\$ 4.79 Per 1,000 gallons
(I) Over 50,000 gallons	\$ 3.95 Per 1,000 gallons
<u>1 Inch Meter</u>	
(I) First 5,000 gallons	\$ 31.18 Minimum Bill
(I) Next 45,000 gallons	\$ 4.79 Per 1,000 gallons
(I) Over 50,000 gallons	\$ 3.95 Per 1,000 gallons

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

APR 27 2000

PURSUANT TO 807 KAR 5.011,
SECTION 9(1)

BY: Stephan B. Bell
SECRETARY OF THE COMMISSION

DATE OF ISSUE 4 27 2000
Month Day Year

DATE EFFECTIVE 4
Month Day

ISSUED BY William R. Jordan President P. O. Box 215, Cynthiana, KY 41031
Name of Officer Title Address

Issued by authority of an Order of the Public Service Commission of
Kentucky in Case No. 2000-139 dated May 15, 2000.

X. WATER RATES-EXISTING SYSTEM

7A

FOR HARRISON, BOURBON, NICHOLAS

AND SCOTT COUNTIES

P.S.C. Ky. No. 7

Original Sheet No. 26

HARRISON COUNTY WATER ASSOCIATION, INC.

Cancelling P.S.C. Ky. No. _____

Sheet No. _____

CLASSIFICATION OF SERVICE

**PHASE FIVE
MONTHLY RATES FOR SERVICE RENDERED
AFTER APRIL 27, 2004**

MONTHLY USAGE

RATE

1 1/2 Inch Meter

(I) First 10,000 gallons	\$ 55.13 Minimum Bill
(I) Next 40,000 gallons	\$ 4.79 Per 1,000 gallons
(I) Over 50,000 gallons	\$ 3.95 Per 1,000 gallons

2 Inch Meter

(I) First 15,000 gallons	\$ 79.08 Minimum Bill
(I) Next 35,000 gallons	\$ 4.79 Per 1,000 gallons
(I) Over 50,000 gallons	\$ 3.95 Per 1,000 gallons

*Fire Hydrant - Connection Fee \$350.00

*Available only in locations approved by Consulting Engineers for the Association

(I) Bulk Loading Station Water Rates \$ 6.00 Per 1,000 gallons

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
APR 27 2000
PURSUANT TO 807 KAR 5011,
SECTION 9(1)
By Stephan D. Bell
SECRETARY OF THE COMMISSION

DATE OF ISSUE	<u>4</u> <u>27</u> <u>2000</u>	DATE EFFECTIVE	<u>4</u> <u>27</u> <u>2000</u>
	Month Day Year		Month Day Year

ISSUED BY <u>William R. Jordan</u>	President	P. O. Box 215, Cynthiana, KY 41031
Name of Officer	Title	Address

Issued by authority of an Order of the Public Service Commission of Kentucky in Case No. 2000-139 dated May 15, 2000.

X. WATER RATES - EXISTING SYSTEM

7B

XII. ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD
For Period January 2007 to Decemeber 2007

<u>Sales Category</u>	<u>Users</u>	<u>Avg. Daily Usage</u> <u>Per User</u>	<u>Avg. Monthly</u> <u>Usage (All Users)</u>	<u>Annual Usage</u>	<u>Annual Income*</u>
Residential	5,342	162.11	26,340,917	316,091,000	\$1,942,563.00
Commercial	129	358.01	1,404,750	16,857,000	\$103,599.00
Bulk Loading Stations	3	1,799.09	164,167	1,970,000	\$12,105.00

Totals: 5,474 27,909,833 334,918,000 \$2,058,267.00

* Note - Annual Income for existing users as provided in 'Kentucky Public Service Commission Report - 2007'

B. *Treatment Capacity of Sewage Treatment Plant* N/A

C. *Type of Sewage Collector System (Describe)* N/A

D. *Number and Capacity of Sewage Lift Stations* N/A

E. *Sewage Collection System:*

<i>Lineal Feet of Collector Lines, by Size</i>		<u>6" N/A</u>	<u>8" N/A</u>
<u>10" N/A</u>	<u>12" N/A</u>	<u>Larger N/A</u>	

XIV. LAND AND RIGHTS - PROPOSED SEWER SYSTEM

Number of Treatment Plant Sites N/A

Number of Pump Sites N/A

Number of Other Sites N/A

Total Acreage N/A *Acres*

Purchase Price \$ N/A

XV. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

- A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

The City of Cynthiana has a raw water intake, a high-service pump station, and a raw water transmission main that enables it to pump water from the main fork of the Licking River. The City of Cynthiana also operates a water treatment plant rated for a 24-hour capacity of 6 MGD. HCWA currently purchases an average of 0.967 MGD from Cynthiana and has approximately 40-years left on its water purchase agreement. The agreement with Cynthiana has no set limit on the volume of potable water that may be purchased by HCWA each month. The existing water purchase agreement with Cynthiana should be sufficient for the proposed project.

- B. Water Storage:

Type:	Ground Storage Tank _____	Elevated Tank _____
	Standpipe _____ 1	Other _____
Number of Storage Structures	1	
Total Storage Volume Capacity	100,000 gallons	

- C. Water Distribution System:

Pipe Material	PVC, Ductile Iron			
Lineal Feet of Pipe:	3" Diameter	0	4"	138,600'
	6"	0	8"	7,920'
	10"	0	12"	0
Number and Capacity of Pump Station(s)	1 – 200 gpm Booster Pump Station			

XVI. LAND AND RIGHTS- PROPOSED WATER SYSTEM

Number of Treatment Plant Sites	0
Number of Pump Sites	1
Number of Other Sites	1
Total Acreage	N/A
Purchase Price	N/A

XVII. NUMBER OF NEW SEWER USERS N/A

<i>Residential (In Town) *</i>	N/A
<i>Residential (Out of Town) *</i>	N/A
<i>Non-Residential (In Town)</i>	N/A
<i>Non-Residential (Out of Town)</i>	N/A
<i>Total</i>	N/A
<i>Number to Total Potential Users Living in the Service Area</i>	N/A

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.

XVIII. PROPOSED SEWER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION N/A

<u>Meter Size</u>	<u>Connection Fee</u>
<u>5/8" x 3/4"</u>	N/A
<u>1 - Inch</u>	N/A
<u>1 - 1/2 Inch</u>	N/A
<u>2 - Inch</u>	N/A
<u>3 - Inch</u>	N/A
<u>4 - Inch</u>	N/A
<u>5 - Inch</u>	N/A

XIX. NUMBER OF NEW WATER USERS

Residential (In Town)	0
Residential (Out of Town)	102
Non-Residential (In Town)	0
Non-Residential (Out of Town)	0
Total	102
Number to Total Potential Users Living in the Service Area	<i>unknown</i>

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.

XX. PROPOSED WATER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION:

<u>Meter Size</u>	<u>Water Connection Fee</u>	<u>Sewer Connection Fee</u>
<u>5/8" x 3/4"</u>	\$ <u>600</u>	\$ <u>N/A</u>
<u>3/4" - Inch</u>	\$ <u>N/A</u>	\$ <u>N/A</u>
<u>1" - Inch</u>	\$ <u>800</u>	\$ <u>N/A</u>
<u>1" - 1/2 Inch</u>	\$ <u>1,100</u>	\$ <u>N/A</u>
<u>2" - Inch</u>	\$ <u>1,210</u>	\$ <u>N/A</u>
<u>3" - Inch</u>	\$ <u>N/A</u>	\$ <u>N/A</u>
<u>4" - Inch</u>	\$ <u>N/A</u>	\$ <u>N/A</u>
<u>6" - Inch</u>	\$ <u>N/A</u>	\$ <u>N/A</u>

XXI. SEWER RATES - PROPOSED N/A

A. Proposed Rate Schedule with RD Grant:

Percentage of Water Bill _____ % \$ _____
 Other: (If Charge Not Based on Water Bill) _____

B. Proposed Rate Schedule: (Without RD Grant)

<i>First</i>	_____	<i>Gallons @</i>	\$ _____	<i>Minimum.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>All Over</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>

The above proposed rate, without RD grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RD grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

C. Recommended Rate Schedule with RD Grant:

Percentage of Water Bill _____ % \$ _____
 Other: (If Charge Not Based on Water Bill) _____

D. Recommended Rate Schedule: (With RD Grant)

<i>First</i>	_____	<i>Gallons @</i>	\$ _____	<i>Minimum.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>Next</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>
<i>All Over</i>	_____	<i>Gallons @</i>	\$ _____	<i>per 1,000 Gallons.</i>

XXII. WATER RATES- PROPOSED (No Rate Change, See Section X. Water Rates – Existing System, Pages 7a & 7b)

A. Proposed Rate Schedule without RD Grant: **\$1,180,000 RD Loan**

B. Proposed Rate Schedule with RD Grant: **\$885,000 RD Loan**

The above proposed rate, without an RD Grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RD Grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

XXIII. FORECAST OF SEWER USAGE – INCOME – EXISTING SYSTEM – EXISTING USERS (12 MONTH PERIOD FROM 1/1/07 THROUGH 12/31/07) N/A

XXIV. FORECAST OF SEWER USAGE – INCOME – NEW USERS – EXTENSION ONLY (12 MONTH PERIOD FROM 1/1/07 THROUGH 12/31/07) N/A

XXV. FORECAST OF WATER USAGE – INCOME – EXISTING SYSTEM – EXISTING USERS (12 MONTH PERIOD FROM 1/1/10 THROUGH 12/31/10) SEE ATTACHED SHEETS 13A, 13B, & 13C

XXVI. FORECAST OF WATER USAGE – INCOME – NEW IMPROVEMENTS (12 MONTH PERIOD FROM 1/1/10 THROUGH 12/31/10) SEE ATTACHED SHEETS 13D, 13E, & 13F

XXV. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS
For Period January 2010 to Decemeber 2010

<u>Sales Category</u>	<u>Users</u>	<u>Avg. Daily Usage Per User</u>	<u>Avg. Monthly Usage (All Users)</u>	<u>Annual Usage</u>	<u>Annual Income*</u>
Residential	5,342	162.11	26,340,917	316,091,000	\$1,942,563.00
Commercial	129	358.01	1,404,750	16,857,000	\$103,599.00
Bulk Loading Stations	3	1,799.09	164,167	1,970,000	\$12,105.00
Totals:	5,474		27,909,833	334,918,000	\$2,058,267.00

* Note - Annual Income for existing users as provided in 'Kentucky Public Service Commission Report - 2007'

XXV. CURRENT OPERATING BUDGET - (WATER - EXISTING)
 (As of last full operating year.)

Year Ending 12/31/2007

A. Operating Income:

Water Sales	<u>\$2,058,267</u>
Late Charges	<u>\$38,017</u>
Other Service	<u>\$8,201</u>
Other Revenue	<u>\$9,916</u>

Less Allowances and Deductions \$0

Total Operating Income **\$2,114,401**

B. Operation and Maintenance Expenses:
 (Based on Uniform System of Accounts prescribed by
 National Association of Regulatory Utility Commissioners)

Source of Supply Expense	<u>(\$794,109)</u>
Pumping Expense	<u>(\$91,554)</u>
Water Treatment Expense	<u>\$0</u>
Transmission and Distribution Expense	<u>(\$59,625)</u>
Customer Accounts Expense	<u>(\$61,569)</u>
Administrative and General Expense	<u>(\$562,642)</u>

Total Operating Expenses **(\$1,569,499)**

Net Operating Income **\$544,902**

C. Non-Operating Income:

Interest Income	<u>\$136,176</u>
Interest Expense	<u>(\$148,536)</u>

Total Non-Operating Income **(\$12,360)**

D. Net Income **\$532,542**

E. Debt Repayment:

RD Interest	<u>(\$90,566)</u>
RD Principal	<u>(\$104,313)</u>
Non-RD Interest	<u>\$0</u>
Non-RD Principal	<u>\$0</u>

Total Debt Repayment **(\$194,879)**

F. Balance Available for Coverage
 and Depreciation **\$337,663**

G. Required Coverage @ 10% **(\$19,488)**

H. Surplus (Deficit) **\$318,175**

I. Depreciation (\$497,156)

J. Surplus (Deficit) with Depreciation **(\$178,981)**

XXV. FUTURE OPERATING BUDGET - (WATER - EXISTING)
 (1st Full Year Of Operation)

Year Ending 12/31/2010

A. Operating Income:

Water Sales	<u>\$2,058,267</u>
Late Charges	<u>\$0</u>
Other Service	<u>\$0</u>
Other Revenue	<u>\$0</u>
Less Allowances and Deductions	<u>\$0</u>
Total Operating Income	<u>\$2,058,267</u>

B. Operation and Maintenance Expenses:
 (Based on Uniform System of Accounts prescribed by
 National Association of Regulatory Utility Commissioners)

Source of Supply Expense	<u>(\$794,109)</u>
Pumping Expense	<u>(\$100,044)</u>
Water Treatment Expense	<u>\$0</u>
Transmission and Distribution Expense	<u>(\$65,154)</u>
Customer Accounts Expense	<u>(\$67,278)</u>
Administrative and General Expense	<u>(\$614,814)</u>
Total Operating Expenses	<u>(\$1,641,399)</u>
Net Operating Income	<u>\$416,868</u>

C. Non-Operating Income:

Interest Income	<u>\$0</u>
Interest Expense	<u>(\$162,309)</u>
Total Non-Operating Income	<u>(\$162,309)</u>

D. Net Income **\$254,559**

E. Debt Repayment:

RD Interest	<u>(\$79,777)</u>
RD Principal	<u>(\$115,102)</u>
Non-RD Interest	<u>\$0</u>
Non-RD Principal	<u>\$0</u>
Total Debt Repayment	<u>(\$194,879)</u>

F. Balance Available for Coverage
 and Depreciation **\$59,680**

G. Required Coverage @ 10% **(\$19,488)**

H. Surplus (Deficit) **\$40,192**

I. Depreciation **(\$543,256)**

J. Surplus (Deficit) with Depreciation **(\$503,064)**

XXVI. FORECAST OF WATER USAGE - INCOME - NEW IMPROVEMENTS
For Period January 2010 to Decemeber 2010

<u>Sales Category</u>	<u>Users</u>	<u>Avg. Daily Usage Per User</u>	<u>Avg. Monthly Usage (All Users)</u>	<u>Annual Usage</u>	<u>Annual Income*</u>
Residential - New	102	162.11	502,953	6,035,433	\$37,711.44
Residential	5,342	162.11	26,340,917	316,091,000	\$1,942,563.00
Commercial	129	358.01	1,404,750	16,857,000	\$103,599.00
Bulk Loading Stations	3	1,799.09	164,167	1,970,000	\$12,105.00

Totals: 5,576 28,412,786 340,953,433 \$2,095,978.44

* Note - Annual Income for new users determined using current rate schedule for 5/8" x 3/4" Meters
Annual Income for existing users as provided in 'Kentucky Public Service Commission Report - 2007'

XXV. FUTURE OPERATING BUDGET - (WATER - IMPROVEMENTS)
 (1st Full Year Of Operation)

Year Ending 12/31/2010

A. Operating Income: **No Rate Increase**
Grants; KIA \$820,000, RD \$0
Loans: RD \$1,180,000 @ 5%

Water Sales	<u>\$37,711</u>
Late Charges	<u>\$0</u>
Other Service	<u>\$0</u>
Other Revenue	<u>\$0</u>
Less Allowances and Deductions	<u>\$0</u>
Total Operating Income	<u>\$37,711</u>

B. Operation and Maintenance Expenses:
 (Based on Uniform System of Accounts prescribed by
 National Association of Regulatory Utility Commissioners)

Source of Supply Expense	<u>(\$10,000)</u>
Pumping Expense	<u>(\$5,000)</u>
Water Treatment Expense	<u>\$0</u>
Transmission and Distribution Expense	<u>(\$2,500)</u>
Customer Accounts Expense	<u>(\$2,500)</u>
Administrative and General Expense	<u>(\$2,500)</u>
Total Operating Expenses	<u>(\$22,500)</u>
Net Operating Income	<u>\$15,211</u>

C. Non-Operating Income:

Interest Income	<u>\$0</u>
Interest Expense	<u>\$0</u>
Total Non-Operating Income	<u>\$0</u>

D. Net Income **\$15,211**

E. Debt Repayment:

RD Interest	<u>(\$58,758)</u>
RD Principal	<u>(\$10,667)</u>
Non-RD Interest	<u>\$0</u>
Non-RD Principal	<u>\$0</u>
Total Debt Repayment	<u>(\$69,425)</u>

F. Balance Available for Coverage
 and Depreciation **(\$54,213)**

G. Required Coverage @ 10% **(\$6,942)**

H. Surplus (Deficit) **(\$61,155)**

XXV. FUTURE OPERATING BUDGET - (WATER - IMPROVEMENTS)
 (1st Full Year Of Operation)

Year Ending 12/31/2010

A. Operating Income: No Rate Increase		
	Grants; KIA \$820,000, RD \$295,000	
	Loans: RD \$885,000 @ 5%	
Water Sales		<u>\$37,711</u>
Late Charges		<u>\$0</u>
Other Service		<u>\$0</u>
Other Revenue		<u>\$0</u>
	Less Allowances and Deductions	<u>\$0</u>
Total Operating Income		<u>\$37,711</u>
B. Operation and Maintenance Expenses:		
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)		
Source of Supply Expense		<u>(\$10,000)</u>
Pumping Expense		<u>(\$5,000)</u>
Water Treatment Expense		<u>\$0</u>
Transmission and Distribution Expense		<u>(\$2,500)</u>
Customer Accounts Expense		<u>(\$2,500)</u>
Administrative and General Expense		<u>(\$2,500)</u>
Total Operating Expenses		<u>(\$22,500)</u>
Net Operating Income		<u>\$15,211</u>
C. Non-Operating Income:		
Interest Income		<u>\$0</u>
Interest Expense		<u>\$0</u>
Total Non-Operating Income		<u>\$0</u>
D. Net Income		<u>\$15,211</u>
E. Debt Repayment:		
RD Interest		<u>(\$44,068)</u>
RD Principal		<u>(\$8,000)</u>
Non-RD Interest		<u>\$0</u>
Non-RD Principal		<u>\$0</u>
Total Debt Repayment		<u>(\$52,069)</u>
F. Balance Available for Coverage and Depreciation		<u>(\$36,857)</u>
G. Required Coverage @ 10%		<u>(\$5,207)</u>
H. Surplus (Deficit)		<u>(\$42,064)</u>

XXXVII. ESTIMATED PROJECT COST – SEWER

N/A

	<u>Collection</u>	<u>Treatment</u>	<u>Total</u>
<i>Development</i>	_____	_____	_____
<i>Land and Rights</i>	_____	_____	_____
<i>Land and Rights</i>	_____	_____	_____
<i>Legal</i>	_____	_____	_____
<i>Engineering</i>	_____	_____	_____
<i>Interest</i>	_____	_____	_____
<i>Contingencies</i>	_____	_____	_____
<i>Initial Operating and Maintenance</i>	_____	_____	_____
<i>Other</i>	_____	_____	_____
TOTAL	_____	_____	_____

XXXVIII. PROPOSED PROJECT FUNDING – SEWER

N/A

	<u>Collection</u>	<u>Treatment</u>	<u>Total</u>
<i>Applicant - User Contribution Fees</i>	_____	_____	_____
<i>Other - Applicant Contribution</i>	_____	_____	_____
<i>RD Loan</i>	_____	_____	_____
<i>RD Grant</i>	_____	_____	_____
<i>ARC Grant (If applicable)</i>	_____	_____	_____
<i>CDBG (If applicable)</i>	_____	_____	_____
<i>Other (Specify)</i>	_____	_____	_____
<i>Other (Specify)</i>	_____	_____	_____

XXXIX. ESTIMATED PROJECT COST - WATER

Development	\$	1,553,840
Land and Rights		10,000
Legal and Administrative		10,000
Engineering		270,600
Interest		0
Contingencies		155,560
Initial Operating and Maintenance		0
Other		0
TOTAL	\$	2,000,000

XXXX. PROPOSED PROJECT FUNDING - WATER

Applicant - User Contribution Fees	\$	0
Other - Applicant Contribution		0
RD Loan		885,000
RD Grant		295,000
ARC Grant (If applicable)		0
CDBG (If applicable)		0
HB 406		820,000
SB 409		0
Other		0
TOTAL	\$	2,000,000

Report

**Phase 10A, 10B,
and 10C
Water System
Improvements
Final Engineering
Report**

**Harrison County
Water Association,
KY**

May 2010

Report for Harrison County Water Association, Kentucky

Phase 10A, 10B, and 10C Water System
Improvements Final Engineering Report

STATE OF KENTUCKY
MARK C.
ASKIN
21237
LICENSED
PROFESSIONAL ENGINEER

*MSR
7/9/10*

Mark C. Askin
5-27-2010

Prepared by:

STRAND ASSOCIATES, INC.®
325 W. Main Street, Suite 710
Louisville, KY 40202
www.strand.com

May 2010



TABLE OF CONTENTS

Page No.
or Following

PHASE 10A, 10B, AND 10C WATER SYSTEM IMPROVEMENTS FINAL ENGINEERING REPORT

Purpose	1
General Background	1
Existing Systems	1
Scope of Project	2
Estimated Water Usage	2
Design Criteria	3
Financial	4
Summary and Conclusions	6

TABLES

Table 1	Estimated Project Cost.....	4
Table 2	Total Estimated Project Funding	4
Table 3	Estimated Annual Operation and Maintenance Costs.....	4
Table 4	Breakdown of Required Revenue.....	5
Table 5	Estimated Annual Required Income for Fiscal Year 2011.....	5
Table 6	Rate Schedule for 5/8-Inch by 3/4-Inch Meter	5
Table 7	Estimated Annual Income for Fiscal Year 2011	6

APPENDICES

APPENDIX A–EXISTING AND FORECASTED WATER USAGE
APPENDIX B–HARRISON COUNTY WATER ASSOCIATION’S USAGE BREAKDOWN
APPENDIX C–BID TABULATION
APPENDIX D–2010 MONTHLY WATER RATES
APPENDIX E–FINANCIAL BREAKDOWN

PURPOSE

This report updates the preliminary engineering report dated April 2008 for the proposed Harrison County Water Association Phase 10A, 10B, and 10C Water Systems Improvement Project for the Harrison County Water Association in Cynthiana, Kentucky, based on bids received May 12, 2010, from final drawings and specifications.

GENERAL BACKGROUND

In November 2006, Strand Associates, Inc.[®] was authorized by the Harrison County Water Association (HCWA) to investigate the feasibility of constructing approximately 27 miles of 4-inch water main, a water storage tank, a pump station, and related appurtenances throughout Harrison County, Kentucky. The project has since evolved into 22 miles of 4-inch water main, two booster pump stations, and related appurtenances throughout Harrison County, Kentucky. An additional 4 miles of 4-inch water main and related appurtenances throughout Harrison County, Kentucky are included as an alternate bid. These improvements will improve pressure and supply to approximately 500 underserved users and provide a reliable source of potable water to 102 unserved users. Citizens have expressed their concerns to the HCWA regarding the need for improved pressure and supply of potable water in areas presently being underserved and for a reliable source of potable water service in unserved areas.

The Kentucky State Clearinghouse comments were received on December 3, 2007, and no conflicts with the State's goals, plans, or objectives were noted. The proposed water system expansions and improvements were reviewed by the Bluegrass Area Development District (BGADD) and appear to be consistent with the BGADD Comprehensive Plan. The HCWA received a United States Department of Agriculture (USDA) Rural Utilities Service (RUS) Water and Waste Loan (\$885,000) and Grant (\$295,000) to cover \$1,180,000 of the \$2,059,213 project cost. The remaining \$879,213 is to be covered by Kentucky Infrastructure Authority (KIA) Grants totaling \$879,213.

EXISTING SYSTEMS

HCWA was first formed as the Harrison County Water District in the early 1960s. In December of 1965, the District entered into a 20-year water purchase agreement with the City of Cynthiana. This water purchase agreement was amended in November 1968, allowing for a 20-year extension of services without notice. The agreement was further amended in June 1969, extending the contract life to 60 years beginning March 1, 1969, and transferred rights from the Harrison County Water District to the HCWA. An amendment effective October 21, 1987, was negotiated by Cynthiana to improve its water supply system. This amendment increased the water purchase rates and extended the contract life for a period of 60 years. The most recent amendment effective May 26, 1999, was negotiated by Cynthiana to further improve its water supply system and included another increase in water purchase rates.

Since its beginning in the middle 1960s, the HCWA has developed into one of the largest and most efficiently operated rural water suppliers in the State. During the 1970s, the HCWA undertook three major expansion projects that resulted in the construction of 120 miles of water mains. In addition to the water mains, the projects included the construction of five standpipe storage tanks, five booster pump stations, and a telemetry control system.

Throughout the following 25 years, the HCWA continued to undertake projects that would further extend its service area to those without a reliable source of potable water service. Following are descriptions of those projects:

1. Phase 4 (1984/1985): Added 37 miles of water main; project funded by Rural Development (RD, formerly FmHA).
2. Phase 5 (1988/1989): Added 24 miles of water main; project funded by RD.
3. Phase 6 (1992/1993): Added 42 miles of water main, two new pumping stations, one pumping station upgrade, a 107,000-gallon storage tank, and a telemetry control system upgrade; project funded by HUD-CDBG, RD, and HCWA.
4. Phase 7 (1993/1994): Added 24 miles of water main, a 112,000-gallon storage tank, an altitude valve, and a radio telemetry control system; project funded by RD.
5. Phase 8 (1996/1997): Added a 110,000-gallon storage tank and one pumping station; project funded by HUD-CDBG and RD.
6. Phase 9 (2001/2002): Added approximately 50 miles of water main, a 192,000-gallon standpipe, two booster pumping stations, 250 gpm and 150 gpm each, and a radio telemetry control system.

With minor extensions of existing lines and the development of several subdivisions, the HCWA presently operates and maintains more than 385 miles of 2-inch through 10-inch water distribution mains.

SCOPE OF PROJECT

The HCWA Phase 10A, 10B, and 10C Water System Improvements Project (Contract 1-2010) consists of constructing approximately 22 miles of 4-inch water main, two booster pump stations, and related appurtenances throughout Harrison County, Kentucky. An additional 4 miles of 4-inch water main and related appurtenances throughout Harrison County, Kentucky is included as an alternate bid. This project will improve pressure and supply to approximately 500 underserved users and provide a reliable source of potable water to 102 unserved users.

ESTIMATED WATER USAGE

Presently, the HCWA serves 5,537 customers of which 97 percent are residential. The annual water usage by 4,991 existing residential customers as determined by billings for the 12-month period between January 2009 and December 2009 was 277,131,844 gallons [154 gallons per capita per day (gpcpd)]. Average monthly demand per residential customer (5/8-inch by 3/4-meters) was 4,628 gallons.

The annual water usage by 156 existing commercial customers as determined by billings for the same 12-month period was 15,831,217 gallons (278 gpcpd). Average monthly demand per commercial customer was 8,457 gallons.

The HCWA currently has water purchase contracts with the City of Cynthiana (no set limit), the Kentucky-American Water Company (3,000,000 gallons per month limit), the Nicholas County Water District (500,000 gallons per month limit), the City of Paris (500,000 gallons per month limit), and the City of Millersburg (600,000 gallons per month limit).

This project will be served by potable water purchased from the City of Cynthiana, which has a raw water intake, high service pumping station, and a raw water transmission main that enables it to pump water from the main fork of the Licking River. The City of Cynthiana operates a water treatment plant rated for a 24-hour capacity of 6 million gallons per day (mgd).

The current average demand is 875,000 gallons of water per day for all users. With the addition of 102 new users, the anticipated average demand will increase to approximately 915,800 gallons per day. This water usage increase is based on 400 gpcpd, which is well above the current residential average of 154 gpcpd. Based on this assumption, HCWA will still be provided ample capacity to serve its existing and future users.

See Appendix A for Existing and Forecasted Water Usage and Appendix B for HCWA's usage breakdown.

DESIGN CRITERIA

A. Hydraulic Considerations

Hydraulic calculations are based on the Hazen-Williams formula with a "C" value of 140 for of polyvinyl chloride (PVC) mains and 130 for ductile iron mains. The economy of PVC pipe has caused it to be the predominant material for rural water system pipelines. The relatively high flow coefficient of $C = 140$ is a common value for PVC water systems and is, therefore, used in the design of this system. The same is true for $C = 130$ for ductile iron systems.

Line sizes are designed to maintain a minimum of 30 pounds per square inch (psi) at the service meter during peak flows.

Fire protection capacity is not designed into the system. Hydrants are normally for blowoff purposes. Service meters, valves, and other appurtenances are designed for basic rural-domestic water supply service only.

B. Construction Considerations

The pipelines will be constructed on private easement and some state and county rights-of-way and the pump station will be constructed on a private easement. Harrison County is underlain by limestone rock formations. Based on previous construction projects and the HCWA's construction experience, the determination was made that rock removal would not present unusual problems at the proposed construction sites. Rock layers near the ground surface are weathered and fragmented.

FINANCIAL

A. Construction and Project Costs

Construction and project cost estimates based on the bids dated May 12, 2010, for the HCWA Phase 10A, 10B, and 10C Water System Improvements Project are presented in Table 1. Bid tabulations are included in Appendix C. Based on the construction costs, the breakdown of the estimated total project cost of \$2,059,213 is shown in Table 1.

Description	Costs
Total Base Bid	\$1,403,925
Total Alternative Bids	202,663
Total Construction (Base Bid and Alternate Bids)	1,606,588
Engineering Fees ¹	192,200
Project Inspection Fees	78,400
Administrative and Legal	10,000
Land and Easements	2,500
Interest During Construction	13,343
Contingencies	105,592
Bluegrass Area Development District and Kentucky Infrastructure Agency Fees	22,550
Archeological Fees	\$28,040
TOTAL	\$2,059,213

¹Preliminary Services: \$20,000; Basic Services: \$127,200; and Additional Services: \$45,000.

Table 1 Estimated Project Cost

B. Project Budget

This project will use a combination of loans and grants for funding. Table 2 provides a summary of the source and amount of each grant/loan.

Funding Source	Amount
Rural Utilities Service Loan	\$885,000
Rural Utilities Service Grant	295,000
Kentucky Infrastructure Agency Grant	59,213
Kentucky Infrastructure Agency Grant	820,000
Total	\$2,059,213

Table 2 Total Estimated Project Funding

C. Operation and Maintenance Costs

Table 3 presents the estimated annual operation and maintenance (O&M) costs.

	Actual Existing System (Year 2009)	Projected Existing System (Year 2011)	Projected Contract 30 New Users (Year 2011)
Purchased Water	\$798,360	\$846,980	\$12,700
Pumping Expenses	64,568	68,500	1,100
Transmission and Distribution Expenses	111,268	118,044	1,900
Customer Account Expenses	52,868	56,088	900
Administrative and General Expenses	583,078	618,587	10,000
Total Estimated Costs	\$1,610,142	\$1,708,200	\$26,600

Table 3 Estimated Annual Operation and Maintenance Costs

The 2009 expenses were taken from the HCWA's financial statements for 2009. The projected 2011 expenses for the existing system reflect a 3 percent annual cost increase. The estimated expenses for the HCWA Phase 10A, 10B, and 10C Water System Improvements Project are included in the last column.

D. Debt Service

The amount of money required from outside sources to finance the project cost of \$2,059,213 includes a RUS loan (\$885,000) and grant (\$295,000) for \$1,180,000 and KIA grant for \$879,213. To retire \$885,000 at 3.625 percent would require equal annual debt service payments of \$42,249 over a 40-year period. See Table 4 for a breakdown of the required revenue using a straight 10 percent debt service coverage.

Description	Cost
Existing Principal and Interest	\$92,423
Contract 1-2010 Principal and Interest	42,249
Total Principal and Interest	\$134,672
10% Coverage on Existing Debt Service	\$9,243
10% Coverage on Contract 30 Debt Service	4,225
Total 10% Principal and Interest	\$13,468

Table 4 Breakdown of Required Revenue

E. Required Income

The total income required to meet estimated obligations for the existing and proposed systems is presented in Table 5.

	Existing System	Contract 1-2010 Project
Operation and Maintenance Costs	\$1,708,200	\$26,600
Principal and Interest	170,133	42,249
10% Coverage	17,014	4,225
Depreciation	\$338,668	
Subtotal	\$2,234,015	\$73,074
Less Interest Income	73,615	0
Subtotal	\$2,160,400	\$73,074
Estimated Income Required	\$2,233,474	

Table 5 Estimated Annual Required Income for Fiscal Year 2011

F. Rate Analysis

The projected average monthly water usage outlined in this report will be used to predict the annual revenue from the existing and Contract 1-2010 system.

Table 6 lists HCWA's rate schedule for a 5/8-inch by 3/4-inch meter starting in January 2010. See Appendix D for HCWA's 2010 Monthly Water Rates.

First 2,000 gallons	\$16.31 Minimum Bill
Next 1,000 gallons	\$6.03 per 1,000 gallons
Next 2,000 gallons	\$5.87 per 1,000 gallons
Next 45,000 gallons	\$5.37 per 1,000 gallons
Over 50,000 gallons	\$4.53 per 1,000 gallons

Table 6 Rate Schedule for 5/8-Inch by 3/4-Inch Meter

The expected annual income for fiscal year 2011, as presented in Table 7, is based on the above rate schedule, the average monthly usages in this report, and the present number of customers (5,537).

Description	Costs
Projected Existing System	
5,381 Residential x \$31.90/mo. x 12 months	\$2,059,847
156 Commercial x \$43.87/mo. x 12 months	82,125
Bulk Loading Station and Miscellaneous Income	50,143
Subtotal	\$2,192,115
Contract 1-2010 Project will add 102 New Users	
102 Residential x \$31.90/mo. x 12 months	39,046
Total Estimated Income (per 2010 rate schedule)	\$2,231,161

Table 7 Estimated Annual Income for Fiscal Year 2011

With the proposed income of \$2,231,161 and estimated annual income required (including debt service coverage at 10 percent and depreciation) of \$2,233,474, the HCWA's income will be within 1 percent of the estimated income required. Income and costs will be monitored closely to avoid a future deficit in the budget. Additionally, the HCWA is optimistic that new users will continue to sign up for services, which will assist in increasing its income. The projected potable water O&M costs for 2011 based on a 3 percent annual increase and excluding depreciation is \$1,734,800, which is fully recoverable with the 2010 rate schedule.

The HCWA's financial breakdown is included in Appendix E.

SUMMARY AND CONCLUSIONS

The HCWA Phase 10A, 10B, and 10C Water System Improvements Project consists of constructing approximately 22 miles of 4-inch water main, two booster pumping stations, and related appurtenances throughout Harrison County, Kentucky. An additional 4 miles of 4-inch water main and related appurtenances throughout Harrison County, Kentucky is included as an alternate bid. This project will improve pressure and supply to approximately 500 underserved users and provide a reliable source of potable water to 102 unserved users.

The recommended financing for the portion of the proposed HCWA Phase 10A, 10B, and 10C Water System Improvements Project not covered by RUS or KIA grants is covered with a RUS loan in the amount of \$885,000. The loan of \$885,000 for 40 years in conjunction with these other sources makes this improvement project feasible. No rate increase is anticipated to repay existing and proposed loans as a result of this project.

APPENDIX A
EXISTING AND FORECASTED WATER USAGE

ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD
For Period January 2009 to December 2009

<u>Sales Category</u>	<u>Users</u>	<u>Avg. Daily Usage</u>	<u>Avg. Monthly Usage</u>	<u>Annual Usage</u>	<u>Annual Income*</u>
		<u>Per User</u>	<u>(All Users)</u>		
Residential	5,381	154.27	25,249,381	302,992,577	\$1,780,102.18
Commercial	156	283.26	1,319,268	15,831,217	\$90,377.95
Bulk Loading Stations & Misc. Income	-	-	-	-	\$50,143.00

Totals: 5,537 26,568,650 318,823,794 \$1,920,623.13

* Note - Annual Income for existing users as provided in 'Usage Breakdown by Units Report 1/01/2009 to 12/31/2009'

APPENDIX B
HARRISON COUNTY WATER ASSOCIATION'S USAGE BREAKDOWN

HARRISON CO WATER ASSN INC
 USAGE BREAKDOWN BY UNITS REPORT FOR 01/01/2009 TO 12/31/2009
 INCOME CENTER: WATER
 STATUS: Active

BREAK	USAGE	AMOUNT	CNT	BREAK	USAGE	AMOUNT	CNT
CUSTOMER TYPE - RESIDENTIAL WATER							
<= 2000	15,356,632	\$230,519.19	15091	<= 4000	61,239,837	\$420,700.44	20452
<= 6000	61,756,000	\$385,682.68	12660	<= 8000	37,063,249	\$216,684.22	5405
<= 10000	20,984,809	\$117,681.40	2371	<= 12000	13,732,689	\$74,945.64	1260
<= 14000	9,177,210	\$49,108.76	711	<= 16000	6,745,509	\$35,593.58	451
<= 18000	4,629,380	\$24,154.01	272	<= 20000	4,156,920	\$21,510.84	219
<= 22000	3,738,539	\$19,194.60	178	<= 24000	2,919,410	\$14,902.19	127
<= 26000	2,217,090	\$11,356.38	89	<= 28000	1,808,470	\$9,146.99	67
<= 30000	1,996,000	\$10,059.76	69	<= 32000	1,292,160	\$6,522.82	42
<= 34000	1,448,080	\$7,320.69	44	<= 36000	1,088,190	\$5,471.55	51
<= 38000	996,580	\$4,968.86	27	<= 40000	1,323,490	\$6,585.33	74
<= 42000	1,148,780	\$5,705.10	28	<= 44000	564,200	\$2,842.27	13
<= 46000	1,036,860	\$5,175.65	23	<= 48000	467,200	\$2,358.75	10
<= 50000	565,700	\$2,892.26	12	<= 52000	817,990	\$4,073.03	16
<= 54000	422,250	\$2,061.72	8	<= 56000	385,780	\$1,868.44	7
<= 58000	458,920	\$2,206.58	8	<= 60000	629,460	\$2,534.44	9
<= 62000	242,540	\$1,154.96	4	<= 64000	440,010	\$2,082.65	7
<= 66000	650,500	\$3,147.03	10	<= 68000	336,290	\$1,574.50	5
<= 70000	207,270	\$1,057.39	3	<= 72000	427,250	\$1,983.01	6
<= 74000	874,270	\$4,044.14	12	<= 76000	224,450	\$1,034.27	3
<= 78000	463,930	\$2,127.91	6	<= 80000	157,290	\$719.75	2
<= 82000	566,380	\$2,818.73	7	<= 84000	249,380	\$1,254.27	3
<= 86000	96,710	\$391.73	1	<= 90000	266,140	\$1,198.95	3
<= 92000	90,700	\$444.20	1	<= 94000	185,240	\$830.16	2
<= 96000	378,400	\$1,838.77	4	<= 98000	291,230	\$1,448.48	3
<= 100000	296,810	\$1,320.10	3	<= 102000	201,810	\$1,053.84	2
<= 104000	412,390	\$2,150.72	4	<= 106000	422,320	\$1,965.10	4
<= 110000	217,260	\$956.63	2	<= 112000	111,600	\$490.05	1
<= 114000	337,230	\$1,479.75	3	<= 116000	231,020	\$1,010.99	2
<= 128000	127,010	\$550.92	1	<= 130000	128,770	\$557.87	1
<= 136000	134,980	\$582.40	1	<= 142000	281,430	\$1,210.11	2
<= 144000	143,000	\$614.08	1	<= 148000	440,380	\$2,138.91	3
<= 150000	149,370	\$639.24	1	<= 152000	151,210	\$616.51	1
<= 154000	304,160	\$1,299.89	2	<= 158000	156,100	\$665.83	1
<= 160000	477,590	\$2,034.17	3	<= 174000	692,940	\$2,934.04	4
<= 170000	701,210	\$2,966.71	4	<= 182000	180,290	\$761.58	1
<= 186000	185,880	\$783.46	1	<= 190000	188,650	\$794.40	1
<= 194000	386,090	\$1,623.47	2	<= 210000	209,000	\$874.78	1
<= 214000	213,690	\$893.31	1	<= 220000	438,160	\$1,829.19	2
<= 226000	225,590	\$940.31	1	<= 246000	246,000	\$1,020.93	1
<= 256000	257,560	\$1,066.59	1	<= 270000	269,460	\$1,113.60	1
<= 286000	284,220	\$1,171.90	1	<= 288000	287,950	\$1,186.63	1
<= 304000	303,480	\$1,247.98	1	<= 354000	352,650	\$1,442.20	1
<= 362000	360,630	\$1,473.72	1	<= 400000	399,800	\$1,628.44	1
TOTAL	277,131,844		59881				
CREDIT/ZERO	0		0				

CUSTOMER TYPE - COMMERCIAL WATER							
<= 2000	636,377	\$14,738.81	957	<= 4000	693,690	\$4,976.94	233
<= 6000	859,860	\$5,503.92	175	<= 8000	641,930	\$3,818.07	92
<= 10000	695,330	\$3,932.46	79	<= 12000	631,810	\$3,445.70	58
<= 14000	528,680	\$2,828.82	41	<= 16000	539,170	\$2,843.39	36
<= 18000	412,860	\$2,151.14	24	<= 20000	380,610	\$1,967.73	20
<= 22000	358,170	\$1,838.55	17	<= 24000	434,610	\$2,219.15	19
<= 26000	297,550	\$1,512.02	12	<= 26000	271,730	\$1,373.88	10
<= 30000	292,590	\$1,473.82	10	<= 32000	215,260	\$1,081.71	7
<= 34000	162,810	\$815.05	5	<= 36000	244,030	\$1,219.51	7
<= 38000	183,130	\$913.34	5	<= 40000	117,900	\$586.43	3
<= 42000	83,450	\$414.19	2	<= 44000	85,390	\$423.47	2
<= 46000	135,060	\$663.63	3	<= 48000	93,060	\$469.70	2
<= 50000	49,470	\$244.19	1	<= 52000	51,630	\$263.17	1
<= 54000	53,800	\$261.74	1	<= 56000	111,000	\$536.91	2

HARRISON CO WATER ASSN INC
 USAGE BREAKDOWN BY UNITS REPORT FOR 01/01/2009 TO 12/31/2009
 INCOME CENTER: WATER
 STATUS: Active

CUSTOMER TYPE - COMMERCIAL WATER

BREAK	USAGE	AMOUNT	CNT	BREAK	USAGE	AMOUNT	CNT
<= 58000	170,600	\$821.56	3	<= 60000	118,620	\$567.01	2
<= 62000	121,980	\$580.28	2	<= 64000	62,940	\$297.84	1
<= 68000	67,170	\$314.55	1	<= 70000	69,790	\$324.90	1
<= 74000	73,840	\$340.90	1	<= 88000	86,880	\$392.41	1
<= 102000	101,870	\$451.62	1	<= 116000	114,700	\$502.30	1
<= 130000	128,280	\$555.94	1	<= 142000	141,200	\$606.97	1
<= 146000	290,200	\$1,244.75	2	<= 152000	150,500	\$643.71	1
<= 158000	314,800	\$1,341.92	2	<= 160000	159,800	\$680.44	1
<= 170000	169,600	\$719.15	1	<= 172000	341,490	\$1,447.35	2
<= 176000	175,600	\$742.85	1	<= 184000	182,430	\$769.83	1
<= 202000	201,100	\$843.58	1	<= 252000	250,710	\$1,039.53	1
<= 260000	258,800	\$1,071.49	1	<= 262000	281,950	\$1,083.93	1
<= 268000	533,310	\$2,205.04	2	<= 274000	272,380	\$1,125.13	1
<= 294000	292,490	\$1,204.57	1	<= 306000	304,850	\$1,253.39	1
<= 310000	308,170	\$1,266.50	1	<= 386000	385,900	\$1,573.54	1
<= 458000	456,510	\$1,852.44	1				
TOTAL	15,831,217	1863					
CREDIT/ZERO	0	0					

**APPENDIX C
BID TABULATION**

Bids Received: 10 A.M., local time, May 12, 2010

STRAND ASSOCIATES, INC.
325 West Main Street, Suite 710
Louisville, KY 40202

PHASE 10A, 10B, AND 10C WATER SYSTEM IMPROVEMENTS
CONTRACT 1-2010
HARRISON COUNTY WATER ASSOCIATION, KENTUCKY

BID TABULATION BREAKDOWN

		Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642			
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
Line "A" and Line "A-1" (Pughs Ferry Road)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,500	LF	\$ 6.50	\$ 42,250.00	\$ 6.25	\$ 40,625.00	\$ 6.80	\$ 44,200.00	\$ 8.65	\$ 57,525.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	610	LF	\$ 6.00	\$ 3,660.00	\$ 5.70	\$ 3,477.00	\$ 6.30	\$ 3,843.00	\$ 8.30	\$ 5,063.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,200	LF	\$ 5.80	\$ 12,760.00	\$ 5.20	\$ 11,440.00	\$ 6.00	\$ 13,200.00	\$ 7.85	\$ 17,270.00
4.	8-IN steel cover pipe, furnishing, installing, and trenching and under state-maintained roads, INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
5.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 50.00	\$ 1,000.00
6.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP	4	EA	\$ 550.00	\$ 2,200.00	\$ 725.00	\$ 2,900.00	\$ 600.00	\$ 2,400.00	\$ 579.00	\$ 2,316.00
7.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 900.00	\$ 1,800.00	\$ 700.00	\$ 1,400.00
8.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,250.00	\$ 2,500.00	\$ 1,265.00	\$ 2,530.00
9.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 7 and 8.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
10.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00

Bids Received: 10 A.M., local time, May 12, 2010

STRAND ASSOCIATES, INC.
325 West Main Street, Suite 710
Louisville, KY 40202

PHASE 10A, 10B, AND 10C WATER SYSTEM IMPROVEMENTS
CONTRACT 1-2010
HARRISON COUNTY WATER ASSOCIATION, KENTUCKY
BID TABULATION BREAKDOWN

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
Line "A" and Line "A-1" (Pughs Ferry Road)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,500	LF	\$ 6.50	\$ 42,250.00	\$ 6.25	\$ 40,625.00	\$ 6.80	\$ 44,200.00	\$ 8.85	\$ 57,525.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	610	LF	\$ 6.00	\$ 3,660.00	\$ 5.70	\$ 3,477.00	\$ 6.30	\$ 3,843.00	\$ 8.30	\$ 5,063.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,200	LF	\$ 5.80	\$ 12,760.00	\$ 5.20	\$ 11,440.00	\$ 6.00	\$ 13,200.00	\$ 7.85	\$ 17,270.00
4.	8-IN steel cover pipe, furnishing, installing, and trenching and under state-maintained roads. INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
5.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 50.00	\$ 1,000.00
6.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	4	EA	\$ 550.00	\$ 2,200.00	\$ 725.00	\$ 2,900.00	\$ 600.00	\$ 2,400.00	\$ 579.00	\$ 2,316.00
7.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 900.00	\$ 1,800.00	\$ 700.00	\$ 1,400.00
8.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,250.00	\$ 2,500.00	\$ 1,265.00	\$ 2,530.00
9.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 7 and 8.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
10.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
11.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	3	EA	\$ 2,800.00	\$ 8,400.00	\$ 2,600.00	\$ 7,800.00	\$ 2,500.00	\$ 7,500.00	\$ 2,700.00	\$ 8,100.00
12.	Cleanup and restoration INCL furnishing, material, and labor.	9,460	LF	\$ 0.50	\$ 4,730.00	\$ 0.47	\$ 4,446.20	\$ 0.50	\$ 4,730.00	\$ 0.80	\$ 7,568.00
13.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	40	LF	\$ 5.00	\$ 200.00	\$ 6.70	\$ 268.00	\$ 8.00	\$ 320.00	\$ 3.00	\$ 120.00
14.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation, INCL unclassified excavation.	1	EA	\$ 1,500.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
15.	Stream crossing with directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe diameter should be sized so that it can carry a separate PE portable water pipe w/an inside DIA of 4 IN. PE directional drill casing pipe and 4 IN inside diameter, PE water main, furnishing, trenching, laying and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	75	LF	\$ 80.00	\$ 6,000.00	\$ 145.00	\$ 10,875.00	\$ 225.00	\$ 16,875.00	\$ 90.00	\$ 6,750.00
16.	Stream crossing with PVC SDR 35 cover pipe and concrete cap, INCL furnishing, material, and labor.	90	LF	\$ 70.00	\$ 6,300.00	\$ 66.00	\$ 5,940.00	\$ 70.00	\$ 6,300.00	\$ 40.00	\$ 3,600.00
17.	Special creek crossing meter box according to details, INCL valve, meter, meter box, and furnishing, material, and labor.	2	EA	\$ 950.00	\$ 1,900.00	\$ 1,130.00	\$ 2,260.00	\$ 2,100.00	\$ 4,200.00	\$ 600.00	\$ 1,200.00
18.	Creek crossing with 8-IN steel cover, furnishing and installing, trenching under creek on Line "A" at Sta. 22+00, INCL unclassified boring and/or jacking and bore pits (water pipe not INCL), CONTRACTOR shall not disturb existing creek bed and bore casing shall be 36 IN under creek bed. CONTRACTOR shall be responsible for clearing area for bore pits adjacent to creek area in unit price Bid.	50	LF	\$ 100.00	\$ 5,000.00	\$ 75.00	\$ 3,750.00	\$ 150.00	\$ 7,500.00	\$ 97.00	\$ 4,850.00
TOTAL LINE "A" AND LINE "A-1" (PUGHS FERRY ROAD)					\$ 100,980.00		\$ 103,181.20		\$ 122,218.00		\$ 125,090.00
LINE "B" (HAVILANDSVILLE ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	8,860	LF	\$ 6.50	\$ 57,590.00	\$ 6.25	\$ 55,375.00	\$ 6.80	\$ 60,248.00	\$ 8.85	\$ 78,411.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
2.	4-IN DIP, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,560	LF	\$ 18.00	\$ 46,080.00	\$ 13.70	\$ 35,072.00	\$ 20.00	\$ 51,200.00	\$ 22.00	\$ 56,320.00
3.	8-IN steel cover pipe, furnishing, installing, trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
4.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	25	LF	\$ 40.00	\$ 1,000.00	\$ 41.00	\$ 1,025.00	\$ 50.00	\$ 1,250.00	\$ 50.00	\$ 1,250.00
5.	4IN C.I. AWWA N.R.S. gate valve and box, CIP.	3	EA	\$ 550.00	\$ 1,650.00	\$ 725.00	\$ 2,175.00	\$ 600.00	\$ 1,800.00	\$ 579.00	\$ 1,737.00
6.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, as per detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
7.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, as according to detail.	5	EA	\$ 600.00	\$ 3,000.00	\$ 1,020.00	\$ 5,100.00	\$ 1,250.00	\$ 6,250.00	\$ 1,265.00	\$ 6,325.00
8.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 6 and 7.	45	LF	\$ 4.00	\$ 180.00	\$ 4.00	\$ 180.00	\$ 5.00	\$ 225.00	\$ 6.00	\$ 270.00
9.	Automatic air release valve assembly and box, CIP, as per detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	11,580	LF	\$ 0.50	\$ 5,780.00	\$ 0.47	\$ 5,433.20	\$ 0.50	\$ 5,780.00	\$ 0.80	\$ 9,248.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	115	LF	\$ 5.00	\$ 575.00	\$ 6.70	\$ 770.50	\$ 8.00	\$ 920.00	\$ 3.00	\$ 345.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
13.	Stream crossing with directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe diameter should be sized so that it can carry a separate PE portable water pipe with an inside diameter of 4-IN. PE Directional Drill casing pipe and 4-IN inside DIA PE water main, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	140	LF	\$ 70.00	\$ 9,800.00	\$ 145.00	\$ 20,300.00	\$ 225.00	\$ 31,500.00	\$ 97.00	\$ 13,580.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
14.	Special creek crossing meter box according to details INCL valve, meter, meter box, and furnishing, material, and labor.	2	EA	\$ 950.00	\$ 1,900.00	\$ 1,130.00	\$ 2,260.00	\$ 2,100.00	\$ 4,200.00	\$ 1,062.00	\$ 2,124.00
TOTAL LINE "B" (HAVILANDSVILLE ROAD)					\$ 133,655.00		\$ 135,780.70		\$ 172,723.00		\$ 178,088.00
LINE "C" (SNAKE LICK ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	5,180	LF	\$ 6.50	\$ 33,670.00	\$ 6.25	\$ 32,375.00	\$ 6.80	\$ 35,224.00	\$ 8.85	\$ 45,843.00
2.	8-IN steel cover pipe, furnishing and installing, trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	60	LF	\$ 90.00	\$ 5,400.00	\$ 75.00	\$ 4,500.00	\$ 85.00	\$ 5,100.00	\$ 97.00	\$ 5,820.00
3.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	3	EA	\$ 450.00	\$ 1,350.00	\$ 815.00	\$ 2,445.00	\$ 900.00	\$ 2,700.00	\$ 700.00	\$ 2,100.00
4.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
5.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to items 3 and 4.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
6.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
7.	Cleanup and restoration INCL furnishing, material, and labor.	5,180	LF	\$ 0.50	\$ 2,590.00	\$ 0.47	\$ 2,434.60	\$ 0.50	\$ 2,590.00	\$ 0.80	\$ 4,144.00
8.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00
9.	Stream crossing with crushed stone INCL furnishing, material, and labor.	80	LF	\$ 20.00	\$ 1,600.00	\$ 36.00	\$ 2,880.00	\$ 50.00	\$ 4,000.00	\$ 40.00	\$ 3,200.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation, INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL LINE "C" (SNAKE LICK ROAD)					\$ 49,665.00		\$ 50,837.10		\$ 56,564.00		\$ 67,385.00
LINE "D" (SNAKE LICK ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	18,450	LF	\$ 6.50	\$ 119,925.00	\$ 6.25	\$ 115,312.50	\$ 6.80	\$ 125,460.00	\$ 7.85	\$ 144,832.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,200	LF	\$ 6.00	\$ 19,200.00	\$ 5.70	\$ 18,240.00	\$ 6.30	\$ 20,160.00	\$ 8.30	\$ 26,560.00
3.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	170	LF	\$ 90.00	\$ 15,300.00	\$ 75.00	\$ 12,750.00	\$ 85.00	\$ 14,450.00	\$ 97.00	\$ 16,490.00
4.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 50.00	\$ 1,000.00
5.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	8	EA	\$ 550.00	\$ 4,400.00	\$ 725.00	\$ 5,800.00	\$ 600.00	\$ 4,800.00	\$ 579.00	\$ 4,632.00
6.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	11	EA	\$ 450.00	\$ 4,950.00	\$ 815.00	\$ 8,965.00	\$ 900.00	\$ 9,900.00	\$ 700.00	\$ 7,700.00
7.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	6	EA	\$ 600.00	\$ 3,600.00	\$ 1,020.00	\$ 6,120.00	\$ 1,250.00	\$ 7,500.00	\$ 1,265.00	\$ 7,590.00
8.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to items 5 and 6.	50	LF	\$ 4.00	\$ 200.00	\$ 4.00	\$ 200.00	\$ 5.00	\$ 250.00	\$ 6.00	\$ 300.00
9.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
10.	4 IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
11.	Cleanup and restoration INCL furnishing, material, and labor.	21,650	LF	\$ 0.50	\$ 10,825.00	\$ 0.47	\$ 10,175.50	\$ 0.50	\$ 10,825.00	\$ 0.80	\$ 17,320.00
12.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	275	LF	\$ 5.00	\$ 1,375.00	\$ 6.70	\$ 1,842.50	\$ 8.00	\$ 2,200.00	\$ 3.00	\$ 825.00
13.	Stream crossing with crushed stone INCL furnishing, material, and labor.	315	LF	\$ 20.00	\$ 6,300.00	\$ 36.00	\$ 11,340.00	\$ 50.00	\$ 15,750.00	\$ 40.00	\$ 12,600.00
14.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
15.	Stream crossing with Directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe diameter should be sized so that it can carry a separate PE portable water pipe with an inside diameter of 4-IN. PE Directional Drill casing pipe and 4-IN inside DIA PE Water main, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	300	LF	\$ 80.00	\$ 24,000.00	\$ 145.00	\$ 43,500.00	\$ 225.00	\$ 67,500.00	\$ 97.00	\$ 29,100.00
16.	Stream crossing with PVC SDR 35 cover pipe and concrete cap INCL furnishing, material, and labor.	210	LF	\$ 70.00	\$ 14,700.00	\$ 66.00	\$ 13,860.00	\$ 70.00	\$ 14,700.00	\$ 40.00	\$ 8,400.00
17.	Special creek crossing meter box according to details INCL valve, meter, meter box, and furnishing, material, and labor.	4	EA	\$ 950.00	\$ 3,800.00	\$ 1,130.00	\$ 4,520.00	\$ 2,100.00	\$ 8,400.00	\$ 600.00	\$ 2,400.00
TOTAL: LINE "D" (SNAKE LICK ROAD)					\$ 233,775.00		\$ 258,625.50		\$ 308,595.00		\$ 285,217.50
LINE "E" (LANG ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	800	LF	\$ 6.50	\$ 5,200.00	\$ 6.25	\$ 5,000.00	\$ 6.80	\$ 5,440.00	\$ 8.85	\$ 7,080.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	480	LF	\$ 6.00	\$ 2,880.00	\$ 5.70	\$ 2,736.00	\$ 6.30	\$ 3,024.00	\$ 8.30	\$ 3,984.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	7,310	LF	\$ 5.80	\$ 42,398.00	\$ 5.20	\$ 38,012.00	\$ 6.00	\$ 43,860.00	\$ 7.85	\$ 57,383.50
4.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
5.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
6.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	5	EA	\$ 450.00	\$ 2,250.00	\$ 815.00	\$ 4,075.00	\$ 900.00	\$ 4,500.00	\$ 700.00	\$ 3,500.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to item 6.	10	LF	\$ 4.00	\$ 40.00	\$ 4.00	\$ 40.00	\$ 5.00	\$ 50.00	\$ 6.00	\$ 60.00
8.	Automatic air release valve assembly and box, CIP, as per detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
9.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, as per detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	8,590	LF	\$ 0.50	\$ 4,295.00	\$ 0.47	\$ 4,037.30	\$ 0.50	\$ 4,295.00	\$ 0.80	\$ 6,872.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	175	LF	\$ 5.00	\$ 875.00	\$ 6.70	\$ 1,172.50	\$ 8.00	\$ 1,400.00	\$ 3.00	\$ 525.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "E" (LANG ROAD)					\$ 64,238.00		\$ 62,522.80		\$ 70,469.00		\$ 86,830.50
LINE "F" (ROCKY FORD ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,870	LF	\$ 5.80	\$ 39,846.00	\$ 5.20	\$ 35,724.00	\$ 6.00	\$ 41,220.00	\$ 7.85	\$ 53,929.50
2.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
4.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
5.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
6.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Item 5.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
7.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
8.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	6,870	LF	\$ 0.50	\$ 3,435.00	\$ 0.47	\$ 3,228.90	\$ 0.50	\$ 3,435.00	\$ 0.80	\$ 5,496.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "F" (ROCKY FORD ROAD)					\$ 51,511.00		\$ 50,037.90		\$ 56,905.00		\$ 70,457.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
LINE "G" (DURBINTOWN ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	5,120	LF	\$ 5.80	\$ 29,696.00	\$ 5.20	\$ 26,624.00	\$ 6.00	\$ 30,720.00	\$ 7.85	\$ 40,192.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	50	LF	\$ 80.00	\$ 4,000.00	\$ 75.00	\$ 3,750.00	\$ 85.00	\$ 4,250.00	\$ 97.00	\$ 4,850.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 900.00	\$ 1,800.00	\$ 700.00	\$ 1,400.00
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,250.00	\$ 2,500.00	\$ 1,265.00	\$ 2,530.00
7.	4-IN blowoff hydrant for all size water mains, INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,120	LF	\$ 0.50	\$ 2,560.00	\$ 0.47	\$ 2,406.40	\$ 0.50	\$ 2,560.00	\$ 0.80	\$ 4,096.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "G" (DURBINTOWN ROAD)					\$ 44,631.00		\$ 43,822.90		\$ 49,630.00		\$ 59,919.00
LINE "H" (KY 1054)											
1.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,640	LF	\$ 6.00	\$ 9,840.00	\$ 5.70	\$ 9,348.00	\$ 6.30	\$ 10,332.00	\$ 8.30	\$ 13,612.00
2.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	4,240	LF	\$ 5.80	\$ 24,592.00	\$ 5.20	\$ 22,048.00	\$ 6.00	\$ 25,440.00	\$ 7.85	\$ 33,284.00
3.	4 IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
4.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
5.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Item 4.	10	LF	\$ 4.00	\$ 40.00	\$ 4.00	\$ 40.00	\$ 5.00	\$ 50.00	\$ 6.00	\$ 60.00
6.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,880	LF	\$ 0.50	\$ 2,940.00	\$ 0.47	\$ 2,763.60	\$ 0.50	\$ 2,940.00	\$ 0.80	\$ 4,704.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	175	LF	\$ 5.00	\$ 875.00	\$ 6.70	\$ 1,172.50	\$ 8.00	\$ 1,400.00	\$ 3.00	\$ 525.00
10.	Stream crossing with crushed stone INCL furnishing, material, and labor.		LF	\$ 20.00	\$ -	\$ 36.00	\$ -	\$ 50.00	\$ -	\$ 40.00	\$ -
11.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "H" (KY 1054)					\$ 45,637.00		\$ 45,262.10		\$ 50,662.00		\$ 61,611.00
LINE "I" (WAGNER LANE)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,670	LF	\$ 5.80	\$ 15,486.00	\$ 5.20	\$ 13,884.00	\$ 6.00	\$ 16,020.00	\$ 7.85	\$ 20,959.50
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	30	LF	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 85.00	\$ 2,550.00	\$ 97.00	\$ 2,910.00
3.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00
4.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
5.	Cleanup and restoration INCL furnishing, material, and labor.	2,670	LF	\$ 0.50	\$ 1,335.00	\$ 0.47	\$ 1,254.90	\$ 0.50	\$ 1,335.00	\$ 0.80	\$ 2,136.00
6.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 600.00	\$ 2,400.00	\$ 1,020.00	\$ 4,080.00	\$ 1,250.00	\$ 5,000.00	\$ 1,265.00	\$ 5,060.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 7 and 8.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
8.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
9.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	2,550	LF	\$ 0.50	\$ 1,275.00	\$ 0.47	\$ 1,198.50	\$ 0.50	\$ 1,275.00	\$ 0.80	\$ 2,040.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	150	LF	\$ 5.00	\$ 750.00	\$ 6.70	\$ 1,005.00	\$ 8.00	\$ 1,200.00	\$ 3.00	\$ 450.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "N" (JUNCTION PIKE)					\$ 32,245.00		\$ 34,108.50		\$ 38,875.00		\$ 43,154.50
LINE "O" (MOORE/RUDDLES FORT ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,360	LF	\$ 5.80	\$ 19,488.00	\$ 5.20	\$ 17,472.00	\$ 6.00	\$ 20,160.00	\$ 7.85	\$ 26,376.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	50	LF	\$ 90.00	\$ 4,500.00	\$ 75.00	\$ 3,750.00	\$ 85.00	\$ 4,250.00	\$ 97.00	\$ 4,850.00
3.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 700.00	\$ 1,400.00	\$ 700.00	\$ 1,400.00
4.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,100.00	\$ 2,200.00	\$ 1,265.00	\$ 2,530.00
5.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
LINE "K" (MARTIN ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	10,060	LF	\$ 5.80	\$ 58,348.00	\$ 5.20	\$ 52,312.00	\$ 6.00	\$ 60,360.00	\$ 7.85	\$ 78,971.00
2.	8-IN steel cover pipe, furnishing and installing, trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	130	LF	\$ 90.00	\$ 11,700.00	\$ 75.00	\$ 9,750.00	\$ 85.00	\$ 11,050.00	\$ 97.00	\$ 12,610.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	5	EA	\$ 550.00	\$ 2,750.00	\$ 725.00	\$ 3,625.00	\$ 600.00	\$ 3,000.00	\$ 579.00	\$ 2,895.00
5.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	6	EA	\$ 450.00	\$ 2,700.00	\$ 815.00	\$ 4,890.00	\$ 700.00	\$ 4,200.00	\$ 700.00	\$ 4,200.00
6.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	4	EA	\$ 600.00	\$ 2,400.00	\$ 1,020.00	\$ 4,080.00	\$ 1,100.00	\$ 4,400.00	\$ 1,265.00	\$ 5,060.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to items 5 and 6.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
8.	Automatic air release valve assembly and box, CIP, as per detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	10,060	LF	\$ 0.50	\$ 5,030.00	\$ 0.47	\$ 4,728.20	\$ 0.50	\$ 5,030.00	\$ 0.80	\$ 8,048.00
10.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	200	LF	\$ 5.00	\$ 1,000.00	\$ 6.70	\$ 1,340.00	\$ 8.00	\$ 1,600.00	\$ 3.00	\$ 600.00
11.	Tie-in to existing water mains, INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "K" (MARTIN ROAD)					\$ 86,408.00		\$ 84,205.20		\$ 93,940.00		\$ 116,072.00
LINE "L" (SPIRITO LANE)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,560	LF	\$ 5.80	\$ 20,648.00	\$ 5.20	\$ 18,512.00	\$ 6.00	\$ 21,360.00	\$ 7.85	\$ 27,946.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	40	LF	\$ 90.00	\$ 3,600.00	\$ 75.00	\$ 3,000.00	\$ 85.00	\$ 3,400.00	\$ 97.00	\$ 3,880.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
4.	Customer services same side of road as from main with meter setter, CIP, according to detail INCL meter.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 700.00	\$ 2,800.00	\$ 700.00	\$ 2,800.00
5.	Customer services opposite side of road as main with meter setter, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,100.00	\$ 2,200.00	\$ 1,265.00	\$ 2,530.00
6.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	3,560	LF	\$ 0.50	\$ 1,780.00	\$ 0.47	\$ 1,673.20	\$ 0.50	\$ 1,780.00	\$ 0.80	\$ 2,848.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	75	LF	\$ 5.00	\$ 375.00	\$ 6.70	\$ 502.50	\$ 8.00	\$ 600.00	\$ 3.00	\$ 225.00
10.	Stream crossing with crushed stone INCL furnishing, material, and labor.		LF	\$ 20.00	\$ -	\$ 36.00	\$ -	\$ 50.00	\$ -	\$ 40.00	\$ -
11.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "L" (MARTIN ROAD)					\$ 34,353.00		\$ 34,892.70		\$ 38,440.00		\$ 46,276.00
LINE "M" (HUGHES LANE)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,340	LF	\$ 6.50	\$ 15,210.00	\$ 6.25	\$ 14,625.00	\$ 6.80	\$ 15,912.00	\$ 8.85	\$ 20,709.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,660	LF	\$ 6.00	\$ 9,960.00	\$ 5.70	\$ 9,462.00	\$ 6.30	\$ 10,458.00	\$ 8.30	\$ 13,778.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling. INCL all associated tees, reducers, and bends (unclassified excavation).	7,630	LF	\$ 5.80	\$ 44,254.00	\$ 5.20	\$ 39,676.00	\$ 6.00	\$ 45,780.00	\$ 7.85	\$ 59,895.50
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	3	EA	\$ 550.00	\$ 1,650.00	\$ 725.00	\$ 2,175.00	\$ 600.00	\$ 1,800.00	\$ 579.00	\$ 1,737.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve. CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 900.00	\$ 1,800.00	\$ 700.00	\$ 1,400.00
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve. CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,250.00	\$ 2,500.00	\$ 1,265.00	\$ 2,530.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
7.	Customer services same side of road as from main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 700.00	\$ 700.00	\$ 700.00	\$ 700.00
8.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,100.00	\$ 1,100.00	\$ 1,265.00	\$ 1,265.00
9.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to Items 5, 6, 7, and 8.	30	LF	\$ 4.00	\$ 120.00	\$ 4.00	\$ 120.00	\$ 5.00	\$ 150.00	\$ 6.00	\$ 180.00
10.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 400.00	\$ 400.00
11.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
12.	Cleanup and restoration INCL furnishing, material, and labor.	11,630	LF	\$ 0.50	\$ 5,815.00	\$ 0.47	\$ 5,466.10	\$ 0.50	\$ 5,815.00	\$ 0.80	\$ 9,304.00
13.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	50	LF	\$ 5.00	\$ 250.00	\$ 6.70	\$ 335.00	\$ 8.00	\$ 400.00	\$ 3.00	\$ 150.00
14.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "M" (HUGHES LANE)					\$ 84,809.00		\$ 82,544.10		\$ 92,115.00		\$ 116,716.50
LINE "N" (JUNCTION PIKE)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,550	LF	\$ 5.80	\$ 14,790.00	\$ 5.20	\$ 13,260.00	\$ 6.00	\$ 15,300.00	\$ 7.85	\$ 20,017.50
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	60	LF	\$ 90.00	\$ 5,400.00	\$ 75.00	\$ 4,500.00	\$ 85.00	\$ 5,100.00	\$ 97.00	\$ 5,820.00
3.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
5.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 450.00	\$ 1,800.00	\$ 815.00	\$ 3,260.00	\$ 900.00	\$ 3,600.00	\$ 700.00	\$ 2,800.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
6.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, according to detail.	4	EA	\$ 600.00	\$ 2,400.00	\$ 1,020.00	\$ 4,080.00	\$ 1,250.00	\$ 5,000.00	\$ 1,265.00	\$ 5,060.00
7.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to items 7 and 8.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
8.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
9.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
10.	Cleanup and restoration INCL furnishing, material, and labor.	2,550	LF	\$ 0.50	\$ 1,275.00	\$ 0.47	\$ 1,198.50	\$ 0.50	\$ 1,275.00	\$ 0.80	\$ 2,040.00
11.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	150	LF	\$ 5.00	\$ 750.00	\$ 6.70	\$ 1,005.00	\$ 8.00	\$ 1,200.00	\$ 3.00	\$ 450.00
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "N" (JUNCTION PIKE)					\$ 32,245.00		\$ 34,108.50		\$ 38,875.00		\$ 43,154.50
LINE "O" (MOORE/RUDDLES FORT ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	3,360	LF	\$ 5.80	\$ 19,488.00	\$ 5.20	\$ 17,472.00	\$ 6.00	\$ 20,160.00	\$ 7.85	\$ 26,376.00
2.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	50	LF	\$ 90.00	\$ 4,500.00	\$ 75.00	\$ 3,750.00	\$ 85.00	\$ 4,250.00	\$ 97.00	\$ 4,850.00
3.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	2	EA	\$ 450.00	\$ 900.00	\$ 815.00	\$ 1,630.00	\$ 700.00	\$ 1,400.00	\$ 700.00	\$ 1,400.00
4.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	2	EA	\$ 600.00	\$ 1,200.00	\$ 1,020.00	\$ 2,040.00	\$ 1,100.00	\$ 2,200.00	\$ 1,265.00	\$ 2,530.00
5.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
6.	Cleanup and restoration INCL furnishing, material, and labor.	3,360	LF	\$ 0.50	\$ 1,680.00	\$ 0.47	\$ 1,579.20	\$ 0.50	\$ 1,680.00	\$ 0.80	\$ 2,688.00
7.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	50	LF	\$ 5.00	\$ 250.00	\$ 6.70	\$ 335.00	\$ 8.00	\$ 400.00	\$ 3.00	\$ 150.00
8.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing, and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "O" (MOORE/RUDDLES FORT ROAD)					\$ 32,018.00		\$ 31,406.20		\$ 35,090.00		\$ 42,662.00
LINE "P" (DRYDEN ROAD)											
1.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	5,630	LF	\$ 5.80	\$ 32,654.00	\$ 5.20	\$ 29,276.00	\$ 6.00	\$ 33,780.00	\$ 7.85	\$ 44,195.50
2.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 40.00	\$ 800.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
4.	Customer services same side of road as from main with meter setter and individual meter CIP, according to detail.	3	EA	\$ 450.00	\$ 1,350.00	\$ 815.00	\$ 2,445.00	\$ 700.00	\$ 2,100.00	\$ 700.00	\$ 2,100.00
5.	Customer services opposite side of road as main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,100.00	\$ 1,100.00	\$ 1,265.00	\$ 1,265.00
6.	Additional 3/4-IN service pipe, furnishing, trenching, laying, and backfilling where required in addition to items 5 and 6.	20	LF	\$ 4.00	\$ 80.00	\$ 4.00	\$ 80.00	\$ 5.00	\$ 100.00	\$ 6.00	\$ 120.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,630	LF	\$ 0.50	\$ 2,815.00	\$ 0.47	\$ 2,646.10	\$ 0.50	\$ 2,815.00	\$ 0.80	\$ 4,504.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	100	LF	\$ 5.00	\$ 500.00	\$ 6.70	\$ 670.00	\$ 8.00	\$ 800.00	\$ 3.00	\$ 300.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: LINE "P" (DRYDEN ROAD)					\$ 43,349.00		\$ 42,282.10		\$ 47,295.00		\$ 58,531.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
U.S. 27 NORTH BOOSTER PUMPING STATION											
1.	Pumping station INCL furnishing, trenching, laying, building, foundation, telemetry system, electrical, VFDs, all taps into existing mains, line work, and backfilling, including all associated tees, reducers, and bends (unclassified excavation).	1	EA	\$ 130,000.00	\$ 130,000.00	\$ 137,000.00	\$ 137,000.00	\$ 145,000.00	\$ 145,000.00	\$ 166,000.00	\$ 166,000.00
CARL STEVENS ROAD BOOSTER PUMPING STATION											
1.	Pumping station INCL furnishing, trenching, laying, building, foundation, telemetry system, electrical, VFDs, all taps into existing mains, line work, and backfilling, including all associated tees, reducers, and bends. This includes the 2 IN water main relocation on the site as shown on drawings (unclassified excavation).	1	EA	\$ 130,000.00	\$ 130,000.00	\$ 129,542.10	\$ 129,542.10	\$ 134,000.00	\$ 134,000.00	\$ 127,000.00	\$ 127,000.00
COLEMANSVILLE TANK PRESSURE ZONE-REPLACE EXISTING METERS											
1.	Reconfigure existing customer services in existing meter box with new tandem meter setter and new individual pressure reducing valve, CIP w/ the existing meter according to detail in the Colemansville Tank pressure zone as indicated for any meter above 100 psi or directed by OWNER. See pressure map in appendix.	50	EA	\$ 300.00	\$ 15,000.00	\$ 975.00	\$ 48,750.00	\$ 1,000.00	\$ 50,000.00	\$ 430.00	\$ 21,500.00
KELAT TANK PRESSURE ZONE-REPLACE EXISTING METERS											
1.	Reconfigure existing customer services in existing meter box with new tandem meter setter and new individual pressure reducing valve, CIP w/existing meter according to detail in the Kelat Tank pressure zone as indicated for any meter above 100 psi or directed by OWNER. See pressure map in appendix.	50	EA	\$ 300.00	\$ 15,000.00	\$ 975.00	\$ 48,750.00	\$ 1,000.00	\$ 50,000.00	\$ 430.00	\$ 21,500.00
ENGINEER'S COMPUTED TOTAL					\$ 1,403,925.00		\$ 1,500,000.00		\$ 1,699,326.00		\$ 1,797,500.50
CONTRACTOR'S COMPUTED TOTAL					\$ 1,403,925.00		\$ 1,500,000.00		\$ 1,699,326.00		\$ 1,797,500.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
ALTERNATIVE BID: LINE "Q" (PUGHS FERRY ROAD)											
1.	4-IN PVC Class 200 pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	6,650	LF	\$ 6.50	\$ 43,225.00	\$ 6.25	\$ 41,562.50	\$ 6.80	\$ 45,220.00	\$ 10.85	\$ 72,152.50
2.	4-IN DIP pipe, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	885	LF	\$ 18.00	\$ 15,930.00	\$ 13.70	\$ 12,124.50	\$ 20.00	\$ 17,700.00	\$ 24.00	\$ 21,240.00
3.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	60	LF	\$ 90.00	\$ 5,400.00	\$ 75.00	\$ 4,500.00	\$ 85.00	\$ 5,100.00	\$ 97.00	\$ 5,820.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main w/tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 900.00	\$ 900.00	\$ 700.00	\$ 700.00
6.	Customer services opposite side of road as main w/tandem meter setter and individual pressure reducing valve, CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
7.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 800.00	\$ 800.00
8.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	6,650	LF	\$ 0.50	\$ 3,325.00	\$ 0.65	\$ 4,322.50	\$ 0.50	\$ 3,325.00	\$ 0.80	\$ 5,320.00
10.	Stream crossing with directional drilling w/PE pipe for all size water mains, CIP, as shown on drawings. The PE casing pipe DIA should be sized so that it can carry a separate PE portable water pipe with an inside DIA of 4 IN. PE directional drill casing pipe and 4-IN inside DIA PE water main, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	75	LF	\$ 80.00	\$ 6,000.00	\$ 145.00	\$ 10,875.00	\$ 225.00	\$ 16,875.00	\$ 97.00	\$ 7,275.00
11.	Stream crossing with PVC SDR 35 cover pipe and concrete cap INCL furnishing, material, and labor.	35	LF	\$ 80.00	\$ 2,800.00	\$ 66.00	\$ 2,310.00	\$ 70.00	\$ 2,450.00	\$ 40.00	\$ 1,400.00
12.	Special creek crossing meter box per details INCL valve, meter, meter box, and furnishing, material, and labor.	1	EA	\$ 950.00	\$ 950.00	\$ 1,130.00	\$ 1,130.00	\$ 2,100.00	\$ 2,100.00	\$ 600.00	\$ 600.00
TOTAL: ALTERNATIVE BID: LINE "Q" (PUGHS FERRY ROAD)					\$ 82,980.00		\$ 83,289.50		\$ 99,320.00		\$ 120,430.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
ALTERNATIVE BID: LINE "R" (DIXON ROAD)											
1.	4-IN PVC Class 200 Pipe, AWWA C900 DR 14, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,340	LF	\$ 6.50	\$ 15,210.00	\$ 6.25	\$ 14,625.00	\$ 6.80	\$ 15,912.00	\$ 10.85	\$ 25,389.00
2.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	880	LF	\$ 6.00	\$ 5,280.00	\$ 5.70	\$ 5,016.00	\$ 6.30	\$ 5,544.00	\$ 10.30	\$ 9,064.00
3.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,930	LF	\$ 5.80	\$ 11,194.00	\$ 5.20	\$ 10,036.00	\$ 6.00	\$ 11,580.00	\$ 9.85	\$ 19,010.50
4.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified boring and/or jacking (water pipe not included).	80	LF	\$ 90.00	\$ 7,200.00	\$ 75.00	\$ 6,000.00	\$ 85.00	\$ 6,800.00	\$ 97.00	\$ 7,760.00
5.	4-IN bore under concrete or bituminous county roads and driveways, no cover pipe.	20	LF	\$ 40.00	\$ 800.00	\$ 41.00	\$ 820.00	\$ 50.00	\$ 1,000.00	\$ 50.00	\$ 1,000.00
6.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00
7.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve, CIP, as according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 900.00	\$ 900.00	\$ 700.00	\$ 700.00
8.	Customer services opposite side of road as main with tandem meter setter and individual pressure reducing valve, CIP, as according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 1,020.00	\$ 1,020.00	\$ 1,250.00	\$ 1,250.00	\$ 1,265.00	\$ 1,265.00
9.	Cleanup and restoration INCL furnishing, material, and labor.	5,150	LF	\$ 0.50	\$ 2,575.00	\$ 0.65	\$ 3,347.50	\$ 0.50	\$ 2,575.00	\$ 0.80	\$ 4,120.00
10.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	25	LF	\$ 5.00	\$ 125.00	\$ 6.70	\$ 167.50	\$ 8.00	\$ 200.00	\$ 3.00	\$ 75.00
11.	Stream crossing with crushed stone INCL furnishing, material, and labor.	0	LF	\$ 20.00	\$ -	\$ 36.00	\$ -	\$ 50.00	\$ -	\$ 40.00	\$ -
12.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
13.	Stream crossing with PVC SDR 35 cover pipe and concrete cap INCL furnishing, material, and labor.	50	LF	\$ 70.00	\$ 3,500.00	\$ 66.00	\$ 3,300.00	\$ 70.00	\$ 3,500.00	\$ 40.00	\$ 2,000.00
TOTAL: ALTERNATIVE BID: LINE "R" (DIXON ROAD)					\$ 48,684.00		\$ 47,872.00		\$ 52,361.00	\$ -	\$ 72,930.50

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
ALTERNATIVE BID: LINE "S" (ARROWHEAD LAKE ROAD)											
1.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	640	LF	\$ 6.00	\$ 3,840.00	\$ 5.70	\$ 3,648.00	\$ 7.50	\$ 4,800.00	\$ 10.30	\$ 6,592.00
2.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	4,680	LF	\$ 5.80	\$ 27,144.00	\$ 5.20	\$ 24,336.00	\$ 7.25	\$ 33,930.00	\$ 9.85	\$ 46,098.00
3.	8-IN steel cover pipe, furnishing, installing, and trenching under state-maintained roads INCL unclassified OPEN CUT (water pipe not included).	20	LF	\$ 90.00	\$ 1,800.00	\$ 75.00	\$ 1,500.00	\$ 85.00	\$ 1,700.00	\$ 97.00	\$ 1,940.00
4.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	2	EA	\$ 550.00	\$ 1,100.00	\$ 725.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 579.00	\$ 1,158.00
5.	Customer services same side of road as from main with meter setter and individual meter, CIP, according to detail.	1	EA	\$ 450.00	\$ 450.00	\$ 815.00	\$ 815.00	\$ 700.00	\$ 700.00	\$ 700.00	\$ 700.00
6.	Automatic air release valve assembly and box, CIP, according to detail.	1	EA	\$ 400.00	\$ 400.00	\$ 580.00	\$ 580.00	\$ 700.00	\$ 700.00	\$ 1,265.00	\$ 1,265.00
7.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances, CIP, according to detail.	1	EA	\$ 2,800.00	\$ 2,800.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
8.	Cleanup and restoration INCL furnishing, material, and labor.	5,320	LF	\$ 0.50	\$ 2,660.00	\$ 0.65	\$ 3,458.00	\$ 0.50	\$ 2,660.00	\$ 0.80	\$ 4,256.00
9.	Crushed rock on trench surface at roadway crossings, streets, and driveways.	25	LF	\$ 5.00	\$ 125.00	\$ 6.70	\$ 167.50	\$ 8.00	\$ 200.00	\$ 3.00	\$ 75.00
10.	Tie-in to existing water mains INCL tapping saddle, tapping gate valve, furnishing and installation INCL unclassified excavation.	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 956.00	\$ 956.00	\$ 2,500.00	\$ 2,500.00	\$ 1,968.00	\$ 1,968.00
TOTAL: ALTERNATIVE BID: LINE "S" (ARROWHEAD LAKE ROAD)					\$ 41,519.00		\$ 39,510.50		\$ 50,890.00		\$ 66,752.00
ALTERNATIVE BID: LINE "T" (ARROWHEAD LAKE ROAD)											
1.	4-IN PVC Class 150 Pipe, AWWA C900 DR 18, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	2,220	LF	\$ 7.00	\$ 15,540.00	\$ 5.70	\$ 12,654.00	\$ 7.50	\$ 16,650.00	\$ 10.30	\$ 22,866.00
2.	4-IN PVC Class 200 Pipe, ASTM D2241 SDR 21, furnishing, trenching, laying, and backfilling INCL all associated tees, reducers, and bends (unclassified excavation).	1,060	LF	\$ 6.00	\$ 6,360.00	\$ 5.20	\$ 5,512.00	\$ 7.25	\$ 7,685.00	\$ 9.85	\$ 10,441.00
3.	4-IN C.I. AWWA N.R.S. gate valve and box, CIP.	1	EA	\$ 550.00	\$ 550.00	\$ 725.00	\$ 725.00	\$ 600.00	\$ 600.00	\$ 579.00	\$ 579.00

				Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Hubert Excavating 2590 Bondville Road Salvisa, KY 40372		Tilton Excavating, LLC 685 Tilton Lane Mount Olivet, KY 41064		Cumberland Pipe, LLC P.O. Box 277 Russell Springs, KY 42642	
No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
4.	Customer services same side of road as from main with tandem meter setter and individual pressure reducing valve. CIP, according to detail.	7	EA	\$ 450.00	\$ 3,150.00	\$ 815.00	\$ 5,705.00	\$ 900.00	\$ 6,300.00	\$ 700.00	\$ 4,900.00
5.	4-IN blowoff hydrant for all size water mains INCL gate valve, box, and all appurtenances. CIP, according to detail.	1	EA	\$ 600.00	\$ 600.00	\$ 2,600.00	\$ 2,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00
6.	Cleanup and restoration INCL furnishing, material, and labor.	3,280	LF	\$ 1.00	\$ 3,280.00	\$ 0.65	\$ 2,132.00	\$ 0.50	\$ 1,640.00	\$ 0.80	\$ 2,624.00
TOTAL: ALTERNATIVE BID: LINE "T" (ARROWHEAD LAKE ROAD					\$ 29,480.00		\$ 29,328.00		\$ 35,375.00		\$ 44,110.00
ENGINEER'S COMPUTED TOTAL (ALTERNATIVE BID)					\$ 202,663.00		\$ 200,000.00		\$ 237,946.00		\$ 304,223.00
CONTRACTOR'S COMPUTED TOTAL (ALTERNATIVE BID)					\$ 202,663.00		\$ 200,000.00		\$ 237,946.00		\$ 304,223.00

* CONTRACTOR'S COMPUTED TOTAL

Reviewed by 