

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

THE APPLICATION OF THE CUMBERLAND COUNTY )  
WATER DISTRICT, A WATER DISTRICT )  
ORGANIZED PURSUANT TO CHAPTER 74 OF THE )  
KENTUCKY REVISED STATUTES, IN CUMBERLAND )  
COUNTY, KENTUCKY, FOR (1) A CERTIFICATE )  
OF PUBLIC CONVENIENCE AND NECESSITY )  
(CONSTRUCTION CERTIFICATE) AUTHORIZING AND )  
PERMITTING SAID WATER DISTRICT TO CONSTRUCT )  
WATER DISTRIBUTION SYSTEM EXTENSIONS )  
AND IMPROVEMENTS, CONSISTING OF THE PROJECT )  
HEREINAFTER IDENTIFIED AND (2) THE )  
APPROVAL OF THE PROPOSED PLAN OF )  
FINANCING FOR SAID PROJECT )

RECEIVED

MAY 28 2008

PUBLIC SERVICE  
COMMISSION

CASE NO. 2008-187

PETITION

Index to Exhibit Addendum

1. Petition of Cumberland County Water District ("District") for Certificate of Public Convenience and Necessity (Construction Certificate) pursuant to KRS 278.020.
2. Certification of Chairman of District regarding compliance with Public Service Commission requirements.
3. Proof of State Grants totaling \$700,000.
4. Preliminary Engineering Report of Monarch Engineering, Inc., Lawrenceburg, Kentucky.
5. Revised Final Engineering Report of Monarch Engineering, Inc., Lawrenceburg, Kentucky.

**Prepared by Henry M. Reed III, Reed & Johnson, Bond Counsel to District**  
**2218 Frankfort Avenue, Louisville, Kentucky 40206**  
**Phone: 502-899-3880, Fax: 502-899-3882**  
**e-mail: hankreed@bellsouth.net**



COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF THE CUMBERLAND COUNTY )  
 WATER DISTRICT, A WATER DISTRICT )  
 ORGANIZED PURSUANT TO CHAPTER 74 OF THE )  
 KENTUCKY REVISED STATUTES, IN CUMBERLAND )  
 COUNTY, KENTUCKY, FOR (1) A CERTIFICATE )  
 OF PUBLIC CONVENIENCE AND NECESSITY )  
 (CONSTRUCTION CERTIFICATE) AUTHORIZING AND )  
 PERMITTING SAID WATER DISTRICT TO CONSTRUCT ) CASE NO. \_\_\_\_\_  
 WATER DISTRIBUTION SYSTEM EXTENSIONS )  
 AND IMPROVEMENTS, CONSISTING OF THE PROJECT )  
 HEREINAFTER IDENTIFIED AND (2) THE )  
 APPROVAL OF THE PROPOSED PLAN OF )  
 FINANCING FOR SAID PROJECT )

P E T I T I O N

Pursuant to KRS 278.020(1), this Petition of the Cumberland County Water District of Cumberland County, Kentucky ("District") respectfully states:

1. That the District is a water district of Cumberland County, Kentucky created pursuant to the provisions of KRS 65.810 et seq. and existing under and by virtue of Chapter 74 of the Kentucky Revised Statutes for the purpose of operating, maintaining and managing a water distribution system ("System") as same presently exists and as same is proposed to be improved and expanded as identified herein ("Project").
2. That the address of said District is "Cumberland County Water District, 133 Lower River Street, Burkesville, Kentucky 42717."
3. That the District was formed pursuant to the statutes cited, ordinances of the County of Cumberland, Kentucky, and an Order of the Public Service Commission entered on February 24, 1995 (Case No. 94-437) approving the merger of the former Marrowbone Water District and the former South Cumberland Water District, for the purpose of operating, managing, and maintaining the System.

4. That the boundaries of the District include substantially all of the County of Cumberland, Kentucky, except for those areas presently served (or to be served) by the City of Burkesville, Kentucky ("City").

5. That the District seeks a Certificate of Public Convenience and Necessity approving the construction of the Project and the approval of the plan of financing said Project by the District.

6. The Project shall be considered a two phase project with this initial phase consisting of water line extensions, with a second phase planned for system improvements such as water tank renovation and distribution system upgrades as more fully identified in the Preliminary Engineering Report and related data submitted by Monarch Engineering, Inc., Engineers for the District, submitted in support of this Petition. This petition seeks approval ONLY for the Phase I portion of the Project for which construction bids have been received.

7. Subject to the approval of the Commission, the District proposes to finance Phase I of the Project solely from the proceeds of a Grant from the Commonwealth of Kentucky (2006 Kentucky General Assembly Grant) in the amount of \$700,000. The District is not now seeking an increase in its rates and charges for water service.

8. That the District purchases a portion of its water supply for distribution through part of its System from the City of Burkesville, Kentucky.

9. That it is not necessary that the District seek increases in the schedule of water rates and charges previously approved by the Commission presently being charged.

10. That the District has observed the appropriate legal procedure in employing Monarch Engineering, Inc., Lawrenceburg, Kentucky as engineers ("Engineers") to prepare the plans and specifications for the construction of the Project. The plans and specifications as to said Project have been approved by the Natural Resources and Environmental Protection Cabinet.

11. That the approval of the Public Service Commission is required in order to enable the District to proceed to accept construction bids for Phase I of the Project and proceed with the construction of the Project in order to provide for the water needs of the residents of the District.

12. That there are attached to this Petition those Exhibits indicated in the Exhibit Addendum to this Petition which the Petitioner believes the Commission will find necessary in ruling on the requests set forth in this Petition pursuant to KRS 278.020.

13. That prior to any hearing in this matter, the District will furnish to the Commission any further documentation pertaining to said Project, to the extent that same are requested and are available.

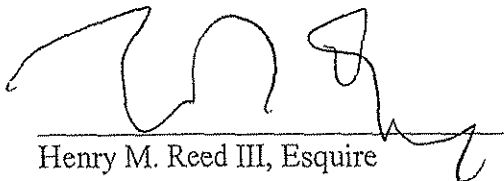
WHEREFORE, Petitioner prays that the Public Service Commission of Kentucky grant to the Petitioners the following:

- A. A Certificate of Public Convenience and Necessity (Construction Certificate), permitting the Petitioner District to construct Phase I of the Project as described in the Engineer's Reports filed herewith as an Exhibit needed to provide additional water service to said District.
- B. An Order approving the financing arrangements made by the District through the utilization of a Grant from the Commonwealth of Kentucky in the amount of \$700,000 (2006 Kentucky General Assembly Grant) to finance the completion of Phase I of the Project.

Dated at Burkesville, Kentucky this 22<sup>nd</sup> day of May, 2008.

CUMBERLAND COUNTY WATER DISTRICT

By Stephen L. Cass  
Chairman, Board of Water Commissioners



Henry M. Reed III, Esquire  
Reed & Johnson  
Bond Counsel  
2218 Frankfort Avenue  
Louisville, Kentucky 40206-2408

STATE OF KENTUCKY            )  
  )  
COUNTY OF CUMBERLAND    )

The undersigned, Stephen L. Capps, being first duly sworn, deposes and states: That he is the Chairman of the Board of Water Commissioners of the Cumberland County Water District of Cumberland County, Kentucky, Petitioner in the above Petition; that he has read the foregoing Petition and has noted the contents thereof; that the same is true of his own knowledge, except as to matters which are therein states on information or belief, and that as to those matters, he believes same to be true.

IN TESTIMONY WHEREOF, witness the signature of the undersigned on the 22<sup>nd</sup> day of May, 2008.

Stephen L. Capps  
Chairman, Cumberland County Water District

Acknowledged before me by Stephen L. Capps, Chairman of the Board of Water Commissioners of the Cumberland County Water District, on this 22<sup>nd</sup> day of May, 2008.

My Commission expires 8/21/2011.

Elizabeth Cornwall  
Notary Public, at large  
Kentucky

(Seal of Notary)



**CERTIFICATION OF DISTRICT CHAIRMAN REGARDING COMPLIANCE  
WITH PUBLIC SERVICE COMMISSION REQUIREMENTS**

The undersigned certifies that he is the duly authorized and acting Chairman of the Cumberland County Water District (the "District") which intends to file with the Public Service Commission of Kentucky ("PSC") a Petition seeking a Certificate of Public Convenience and Necessity (Construction Certificate) in connection with the construction of additions, extensions, and improvements to the District's water distribution system, consisting of water line extensions (the "Project").

The undersigned has executed this Certificate in reliance upon information and advice of Monarch Engineering, Inc., Lawrenceburg, Kentucky (the "Engineers") which firm has been retained by the District to provide engineering services in connection with the Project.

The undersigned states that the proposed plans and specifications for the Project have been designed to meet the minimum construction and operating requirements established in 807 KAR 5:066, Section 4(3) and (4), Section 5(1), Sections 6 and 7, Section 8(1) through (3), Section 9(1) and Section 10.

The undersigned states that all other State approvals or permits have been obtained.

The undersigned further certifies that the Project is to be financed solely through the application of a \$700,000 Grant from the Commonwealth of Kentucky (2006 Kentucky General Assembly Grant).

Based upon the information supplied by the Engineers, it is estimated that construction of the Project will commence on or about June 15, 2008 and end on or about September 15, 2008.

Based upon the advice of the Engineers, the undersigned believes that no increase in water rates will be required by the District, as existing rates are estimated to be sufficient to meet the expenses incident to the operation and maintenance of the District's water distribution system and pay and retire all of the District's outstanding Water Revenue Bonds.

Dated this 22<sup>nd</sup> day of May, 2008.

**CUMBERLAND COUNTY WATER DISTRICT**



Stephen L. Capps  
Chairman





# **CUMBERLAND COUNTY WATER DISTRICT**

**OFFICE: 133 Lower River Street, Burkesville, KY 42717-9622**

**PHONE 270/864-3133 FAX 270/864-3865 EMAIL [ccwdoffice@alltel.net](mailto:ccwdoffice@alltel.net)**

**WATER TREATMENT PLANT: 210 Leslie Road, Burkesville, KY 42717**

March 22, 2007

Ms. Amy Hellard  
Kentucky Infrastructure Authority  
1024 Capital Center Drive, Suite 340  
Farnkfort, KY 40601

Re: Grant ID# 268N-2007  
Cumberland County

Dear Ms. Hellard:

Please find attached the following documents for the above referenced grant.

Grant Assistance Agreement

Estimated Project Budget

Water Project Profile

Schedule of Rates

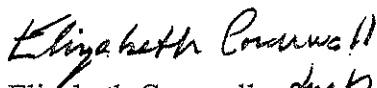
Electronic Deposit Form

Exhibit 2 Resolution

Certificate

Should you need additional information, please advise.

Sincerely,

  
Elizabeth Cornwall *EC*  
Project Administrator

KENTUCKY INFRASTRUCTURE AUTHORITY

2006 GENERAL ASSEMBLY  
HOUSE BILL 380

GRANT ASSISTANCE AGREEMENT

WRIS NUMBER: WX21057010

GRANT ID #: 268N-2007

GRANT AMOUNT: \$600,000

GRANTEE: Cumberland County Water District

DATE OF AGREEMENT: \_\_\_\_\_

# **CUMBERLAND COUNTY WATER DISTRICT**

**OFFICE: 133 Lower River Street, Burkesville, KY 42717-9622**

**PHONE 270/864-3133 FAX 270/864-3865 EMAIL [ccwdoffice@alltel.net](mailto:ccwdoffice@alltel.net)**

**WATER TREATMENT PLANT: 210 Leslie Road, Burkesville, KY 42717**

March 22, 2007

Ms. Amy Hellard  
Kentucky Infrastructure Authority  
1024 Capital Center Drive, Suite 340  
Farnkfort, KY 40601

Re: Grant ID# 528CD-2007  
Cumberland County

Dear Ms. Hellard:

Please find attached the following documents for the above referenced grant.

Grant Assistance Agreement

Estimated Project Budget

Water Project Profile

Schedule of Rates

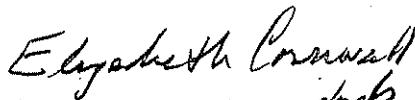
Electronic Deposit Form

Exhibit 2 Resolution

Certificate

Should you need additional information, please advise.

Sincerely,



Elizabeth Cornwall  
Project Administrator

KENTUCKY INFRASTRUCTURE AUTHORITY

2006 GENERAL ASSEMBLY  
HOUSE BILL 380

GRANT ASSISTANCE AGREEMENT

WRIS NUMBER: WX21057010

GRANT ID #: 528CD-2007

GRANT AMOUNT: \$100,000

GRANTEE: Cumberland County Water District

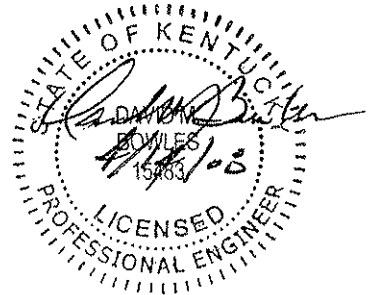
DATE OF AGREEMENT: \_\_\_\_\_



**PRELIMINARY ENGINEERING REPORT  
FOR THE  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY**

**COUNTY WIDE WATER SYSTEM EXTENSIONS &  
IMPROVEMENTS**

**MARCH 2005**



**PRELIMINARY ENGINEERING REPORT  
FOR THE  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY**

**COUNTY WIDE WATER SYSTEM EXTENSIONS &  
IMPROVEMENTS**

I. GENERAL

This Preliminary Engineering Report is intended to analyze the proposed water distribution system extensions and improvements that are being planned by the Cumberland County Water District to serve 23 first time customers with potable drinking water and to upgrade or replace undersized water lines in six areas of Cumberland County. The new customers to be served are all residential. In addition, this project proposes upgrade four water storage tanks; install a new 300,000 gallon elevated water storage tank, and five new master meters and appurtenances.

The Cumberland County Water District provides water service to nearly 2,200 residential and nonresidential customers throughout Cumberland County. The District owns and operates a water treatment plant which is located near the Leslie community.

Included in this report are maps of the proposed service area showing the intended routes of the water lines, and the location of major appurtenances. In addition, project cost estimates are included which outline all costs associated with the water plant and water line improvements that are planned. Rural Development "Kentucky Guide 7" will be submitted at a later date and the information that will be contained in the guide will analyze the capability of the Water District to execute this project by evaluating the financial status of the District along with a review of the operation of the District.

II. PROJECT PLANNING AREA

The Cumberland County Water District owns and operates a water distribution system that serves all of Cumberland County with the exception of the City of Burkesville. Formed by the merger of the old South Cumberland Water District which served the southern portion of Cumberland County along with the old Marrowbone Water District which served the northern portion, parts of the water system have been in operation for over 40 years. The project proposes to install a new 300,000 gallon elevated water storage tank to be constructed along an existing 100,000 gallon tank at the Kentucky Highway 449 location. Renovation in the form of painting the interior and exterior surfaces of the remaining four storage tanks is planned. These tanks are referred to and



located at Marrowbone, Allens Creek, Highway 1880, and Highway 61. Along with the tank improvements, six areas are slated to be upgraded with larger water lines to replace the undersized existing 2-inch lines. Those areas are Leatherwood Road, Highway 100 Connector, Highway 449 Transmission Main that will connect to the new water tank, Dutch Creek, Pitman Creek, and Mud Camp Community. In addition, 23 new customers will be receiving water for the first time and they reside in the Dug Hollow Road, Williams Creek, West Fork Road, and Howard Spears Road communities. The final portion of work planned is the installation of five master meters to be strategically placed to assist the District in the maintaining water loss at an acceptable level. These areas are outlined on the attached maps.

Topography of the area near the Cumberland River is typically river bottom with a steep ridge that overlooks these river areas. The land use in these areas is mainly agricultural with some light timber harvesting in the steeper sloped areas. Within the proposed water line extension and improvement areas there are no commercial or industrial businesses expected.

The residents in the communities that have never been served by a public water system mostly rely on creeks, or community springs, which are known to be contaminated. There are no cisterns and thus there is no possibility that these residences can transport their water by commercial water haulers. People in these areas carry water to their homes by means of barrels, buckets, jugs, old milk cartons, or other containers. They often make daily trips to the nearest water source, none of which are monitored by an approved health agency. It is not anticipated that a significant growth pattern will emerge as a result of the implementation of a domestic water supply but rather that the standard of living for those residents will be greatly improved.

### III. EXISTING FACILITIES

The water treatment plant which is owned and operated by the Cumberland County Water District serves nearly 2,200 residential and nonresidential customers that reside throughout Cumberland County. The formation of the Cumberland County Water District is the result of a merger between the Marrowbone Water District and the South Cumberland Water District. The Cumberland River which lies generally east to west along center of the county served as the general boundary between the two water districts. The service area of the Marrowbone Water District was in the northern portion of the county and the South Cumberland Water District served the southern area of Cumberland County. The merger was completed in 1996 and as a part of the project that linked the two Districts together was a transmission water line that extended through the Jackson Hollow. Also included was an expansion at the water treatment plant which is located in the Marrowbone service area. The Water Districts were formed in 1960s and at that time the Marrowbone system constructed a water treatment plant to provide them water for their service area. The South Cumberland system opted to purchase all of its water for resale from the City of Burkesville.

As a result of the merger, the water treatment plant located near the Leslie community continues to provide water to all of the old Marrowbone system which is located north of the Cumberland River, and also to a portion of the old South Cumberland system. In addition, the old South Cumberland area continues to be supplied by the City of Burkesville. As a result of the merger of the two water districts, a new water purchase contract was negotiated between the City of Burkesville and the new Cumberland County Water District. The contract specified a maximum daily amount that could be purchased by the Water District.

The Water District operates the water system through a Board of Commissioners which consists of the chairman and four commissioners which are appointed by the Cumberland County Fiscal Court.

Information regarding the current rate structure, annual operation and maintenance data and a tabulation of the users for an annual period by monthly usage categories and revenue, will be analyzed in the Summary Addendum which will be included in the Kentucky Guide 7 (to be submitted at a later date).

#### IV. NEED FOR THE PROJECT

This project is intended to eliminate a serious health hazard in the communities in which it will serve by providing first time potable water service to those residents that reside within those communities. As mentioned earlier, the use of unsafe and potentially contaminated water for drinking and other vital human needs is prevalent. It is well known and confirmed by the local health agency that ground water, springs, and surface water from creeks and streams is unfit for human consumption.

This project is also intended to resolve deficiencies in the distribution system that have resulted in lower than expected supply pressures. An evaluation revealed that six areas of the water distribution system were being supplied with 2-inch water lines which were serving as transmission mains. In these areas and during peak demand, water pressures are extremely low and in some cases negative pressures could result which could lead to contamination by allowing ground water to enter into the system. It is not anticipated that a significant growth pattern will emerge as a result of a water line replacement but rather that the quantity and quality of the water supply will be greatly improved. By replacing the 2-inch water lines with 8-inch, 6-inch, 4-inch, and 3-inch water lines, the Water District will be able to supply a sufficient amount of water to meet the demands of their customers and reduce the risk of a potential health threat.

In order for the Water District to maintain the proper level of operation a new 300,000 gallon elevated water tank is to be constructed alongside an existing 100,000 gallon tank at the Highway 449 location. This existing tank is one of the first tanks built in the system and is strategically located such that a large portion of the water system depends

on water that is supplied from this tank. The existing tank indicates evidence that major repairs are eminent but with the development of a new tank at this site the expensive renovation could be avoided.

The four water storage tanks that are owned and operated by the Water District have begun to show signs of deterioration of the interior and exterior surfaces. The surface coatings have begun to show signs of weathering and require painting of the interior and the exterior.

Finally, in a continuing effort to address the water loss that the District experiences the project intends to install five master meters located at strategic points throughout the water system. These master meters will be used to obtain knowledge as to which portions of the water system are in satisfactory physical shape and which need further attention.

## V. ALTERNATIVES CONSIDERED

Based on the fact that there are no other major potable water suppliers that are situated to serve the four areas in need of new water lines, the Cumberland County Water District is the only logical entity that is in position to provide water service. The Water District is regulated by the Kentucky Division of Water and also the Kentucky Public Service Commission, The City of Burkesville supplies water to the District and they along with the Water District are the only major public water suppliers in Cumberland County. Therefore, based on these factors, the proposed method of service is the only alternative that exists to adequately serve these residences that reside within the Dug Hollow Road, Williams Creek, West Fork Road, and Howard Spears Road communities.

In regard to the 2-inch water line replacements, which have resulted in low water pressures and potential health threats, the only alternative is to replace the these undersized lines with the proposed 8-inch, 6-inch, 4-inch, and 3-inch water lines.

## VI. PROPOSED PROJECT

The proposed project consists of the installation of 52,000 LF of 3-inch water line to serve approximately 23 new customers. The project also includes the installation of 67,000 LF of 8-inch, 6-inch, 4-inch, and 3-inch water lines to upgrade existing service lines as well as the renovation of four existing water storage tanks, one new 300,000 gallon water storage tank, and the installation of five new master meters and appurtenances. An itemized cost estimate is included in this report and it outlines all of the individual construction items along with their associated estimated unit costs. A summary cost estimate summarizes all of the project costs and outlines the funding scheme for the project which is also included in this report.

This project proposes to serve new and existing customers with a sufficient and safe water supply in the areas in need of new water lines as well as those in need of water line replacement as shown on the attached maps. The current water system will continue to serve the Water District without over extending the capacity of the water supply and distribution system. The proposed water lines and water line replacements are planned to be installed adjacent to the public rights of ways and all residences interested in obtaining water service will be served by the new water lines.

The project cost has been estimated to be \$1,634,000 and the total project cost will be \$1,887,000. The Water District is proposing to finance the project through the upcoming proposed Kentucky State House Bill 395 which outlines an amount of \$1,177,000 for water system improvements to the District's system along with funds from the U.S.D.A.'s Rural Development program in the form of a grant in the amount of \$335,000 and also as a loan in the same amount of \$335, 000.

## VII. CONCLUSIONS AND RECOMMENDATIONS

Based on the desperate need for the residents in the communities to have a potable water supply it is recommended that the Cumberland County Water District pursue the financial assistance as outlined above in order that this unhealthy situation can be corrected. The Cumberland County Water District is the only major supplier of potable water within this rural area of Cumberland County and their system is situated such that these extensions and line replacements as proposed could be made without affecting service to their existing customers.

Consequently, once the extensions and improvements are completed, the availability of a quality water supply shall be increased, water purchases from the City of Burkesville will be in compliance with the Water Purchase Contract, and the replacement of the existing undersized services to the Leatherwood Road, Highway 100 Connector, Highway 449 Transmission Main that will connect to the new water tank, Dutch Creek, Pitman Creek, and Mud Camp areas shall provide a sufficient and safe water source for the area residents.



PRELIMINARY COST ESTIMATE  
COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS  
ITEMIZED SUMMARY  
CUMBERLAND COUNTY WATER DISTRICT  
DECEMBER 2004

ITEM	NEW USERS	COST
Leatherwood Road Replacement		\$95,000.00
Highway 100 Connector		72,000.00
Highway 449 Transmission Main		177,000.00
Dutch Creek Replacement		74,000.00
Pitman Creek Replacement		83,000.00
Mudcamp Replacement		80,000.00
Dug Hollow Road	5	\$26,000.00
Williams Creek	4	66,000.00
West Fork Road	9	158,000.00
Howard Spears Road	5	59,000.00
Highway 449 Water Storage Tank		\$388,000.00
Master Meters		48,000.00
Storage Tank Renovation		308,000.00
Total Construction & Contingency		\$1,634,000.00

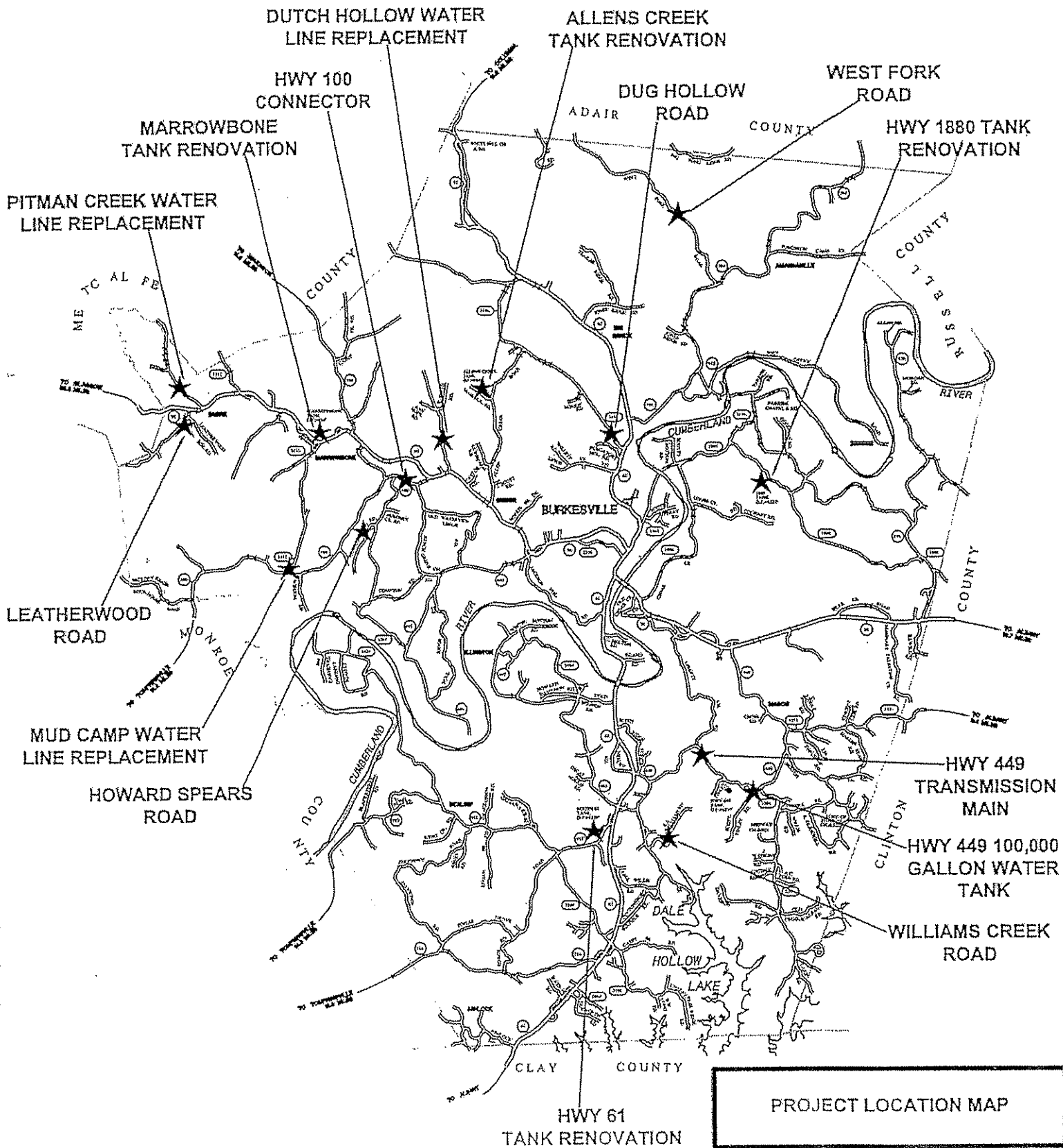
PRELIMINARY COST ESTIMATE  
COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY  
DECEMBER 2004

PROJECT COSTS

DEVELOPMENT	\$1,483,500.00
CONTINGENCY	150,500.00
ENGINEERING	123,000.00
INSPECTION	65,000.00
LEGAL	20,000.00
INTEREST	20,000.00
ADDITIONAL ENGINEERING	25,000.00
	<hr/> <hr/>
TOTAL PROJECT COSTS	\$1,887,000.00


PROJECT FINANCING

TOBACCO SETTLEMENT FUND	\$1,177,000.00
USDA GRANT	355,000.00
USDA LOAN	355,000.00
	<hr/> <hr/>
TOTAL PROJECT FINANCING	\$1,887,000.00



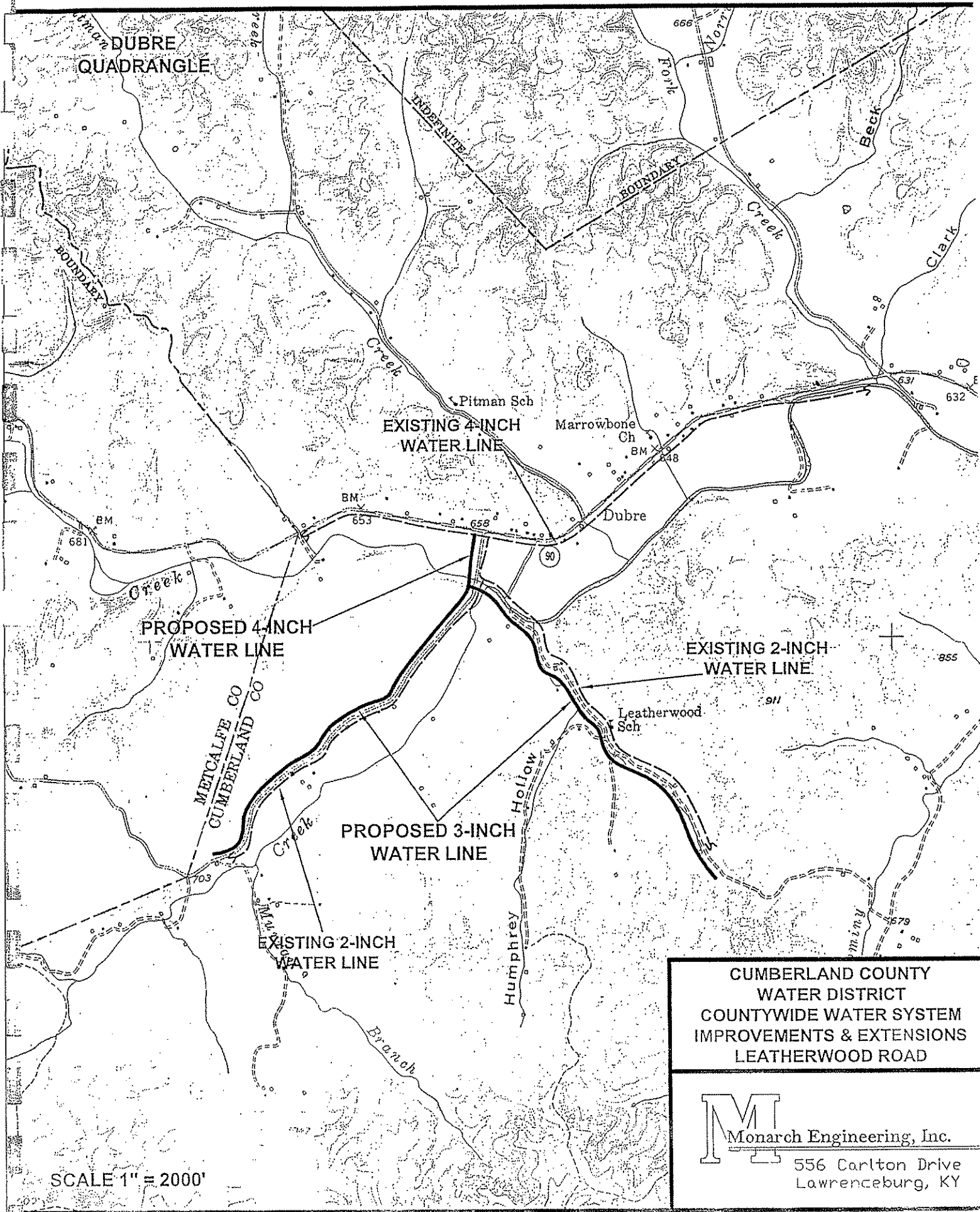
**PROJECT LOCATION MAP**

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**Monarch Engineering, Inc.**  
 556 Carlton Drive  
 Lawrenceburg, KY



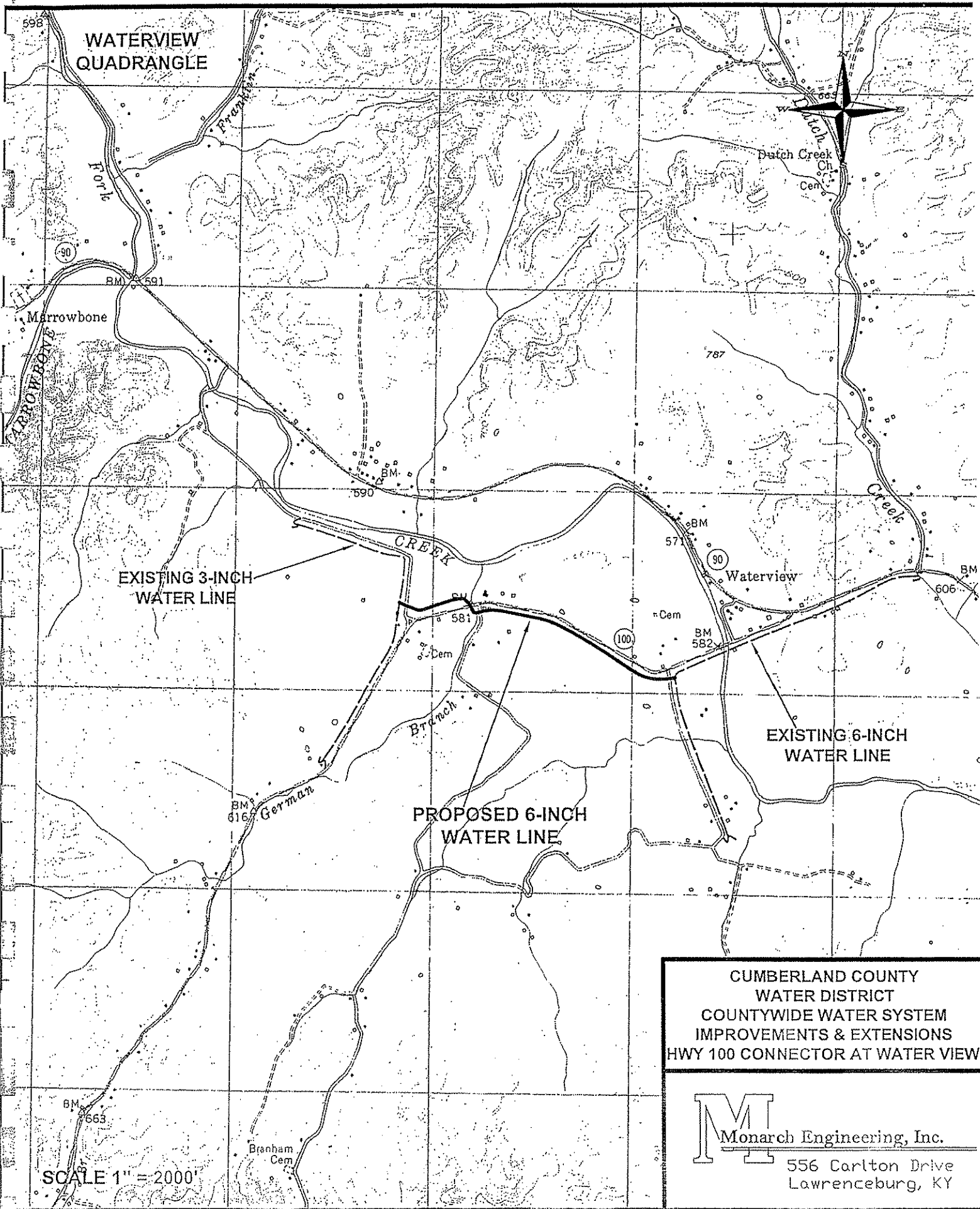


SCALE 1" = 2000'

**CUMBERLAND COUNTY  
 WATER DISTRICT  
 COUNTYWIDE WATER SYSTEM  
 IMPROVEMENTS & EXTENSIONS  
 LEATHERWOOD ROAD**

**M** Monarch Engineering, Inc.  
 556 Carlton Drive  
 Lawrenceburg, KY

WATERVIEW  
QUADRANGLE

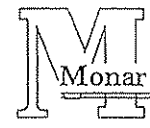


EXISTING 3-INCH  
WATER LINE

EXISTING 6-INCH  
WATER LINE

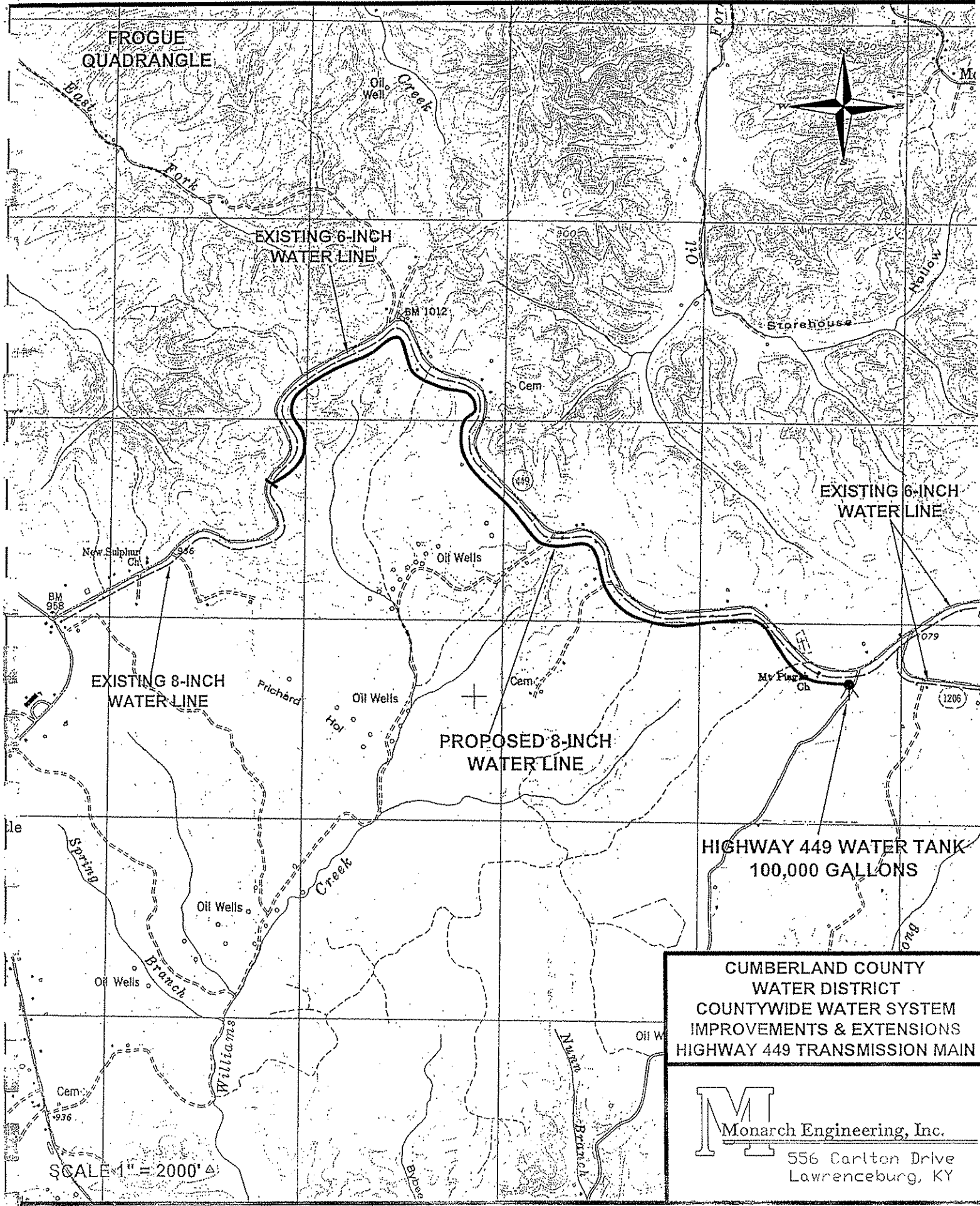
PROPOSED 6-INCH  
WATER LINE

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
HWY 100 CONNECTOR AT WATER VIEW

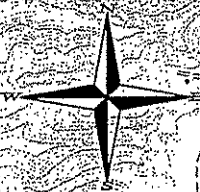


Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'



FROGUE  
QUADRANGLE



EXISTING 6-INCH  
WATER LINE

BM 1012

EXISTING 6-INCH  
WATER LINE

EXISTING 8-INCH  
WATER LINE

PROPOSED 8-INCH  
WATER LINE

HIGHWAY 449 WATER TANK  
100,000 GALLONS

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
HIGHWAY 449 TRANSMISSION MAIN

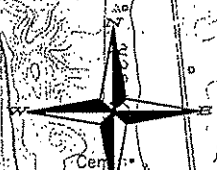


Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'

WATERVIEW  
QUADRANGLE



Dutch Creek  
Cem.

EXISTING 2-INCH  
WATER LINE

PROPOSED 3-INCH<sup>67</sup>  
WATER LINE

EXISTING 8-INCH  
WATER LINE

Waterview

Cem.

BM 571

BM 606

569

BM 581

100

BM 582

619

BM 568

MARROWBONE

Grider

Beech Grove  
Sch

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
DUTCH CREEK WATER LINE REPLACEMENT



Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'

AMANDAVILLE  
QUADRANGLE



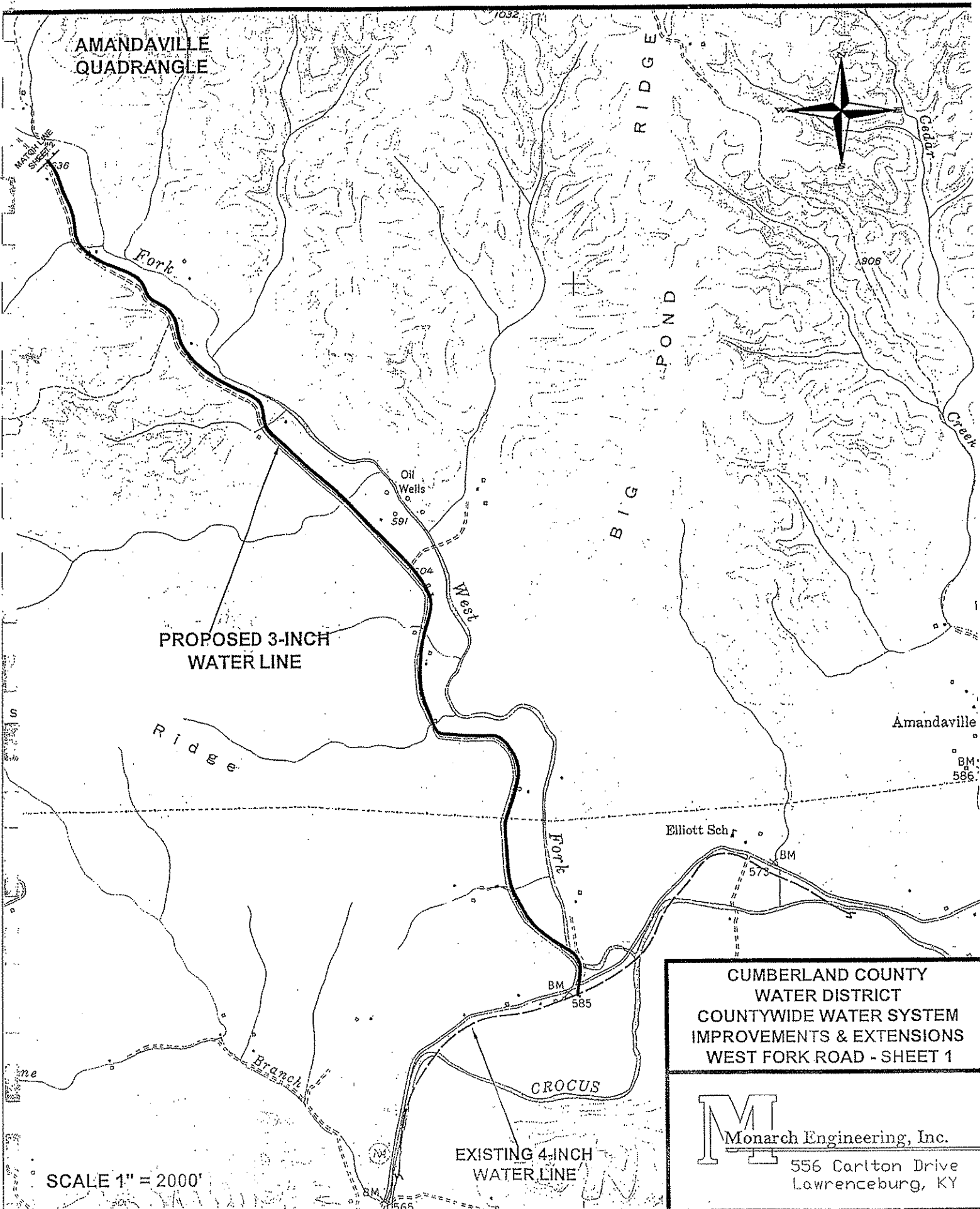
PROPOSED 3-INCH  
WATER LINE

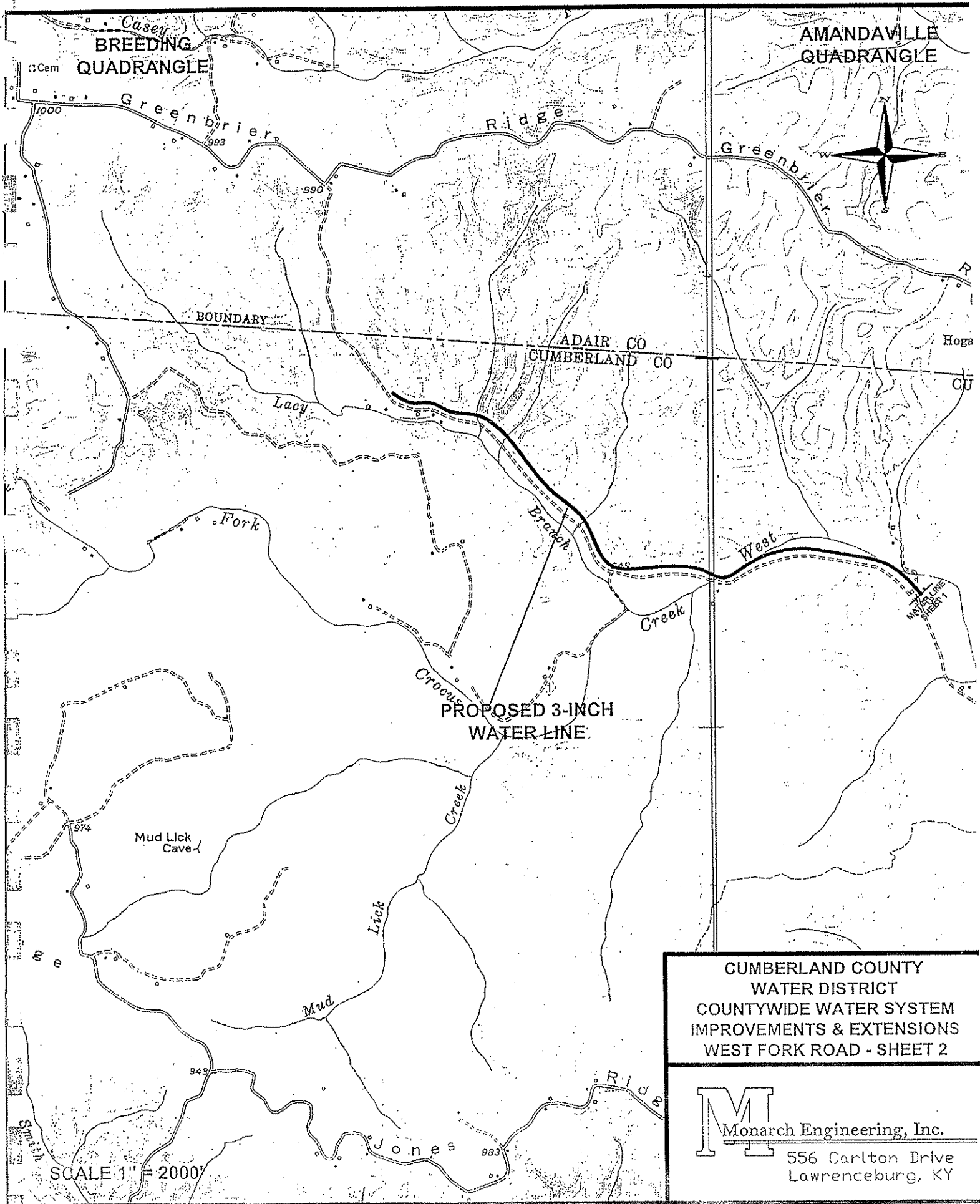
EXISTING 4-INCH  
WATER LINE

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
WEST FORK ROAD - SHEET 1

**M**  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

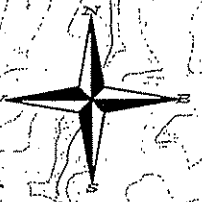
SCALE 1" = 2000'





BREEDING QUADRANGLE

AMANDAVILLE QUADRANGLE



BOUNDARY

ADAIR CO  
CUMBERLAND CO

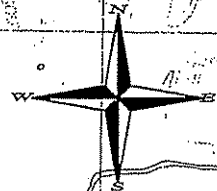
PROPOSED 3-INCH  
WATER LINE

SCALE 1" = 2000'

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
WEST FORK ROAD - SHEET 2

**M**  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

WATERVIEW  
QUADRANGLE



EXISTING 3-INCH  
WATER LINE

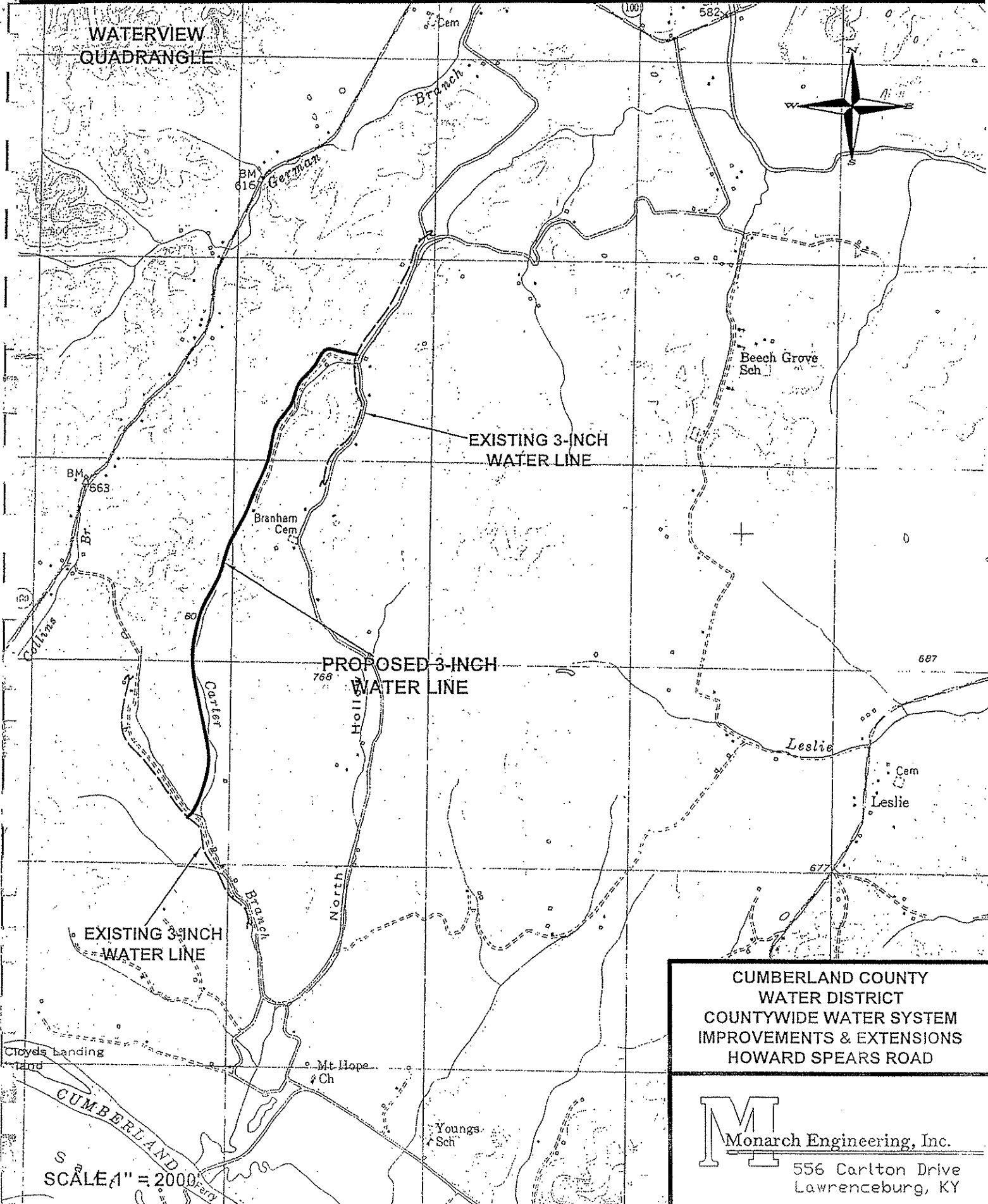
PROPOSED 3-INCH  
WATER LINE

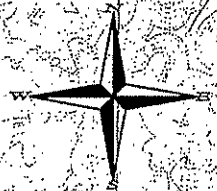
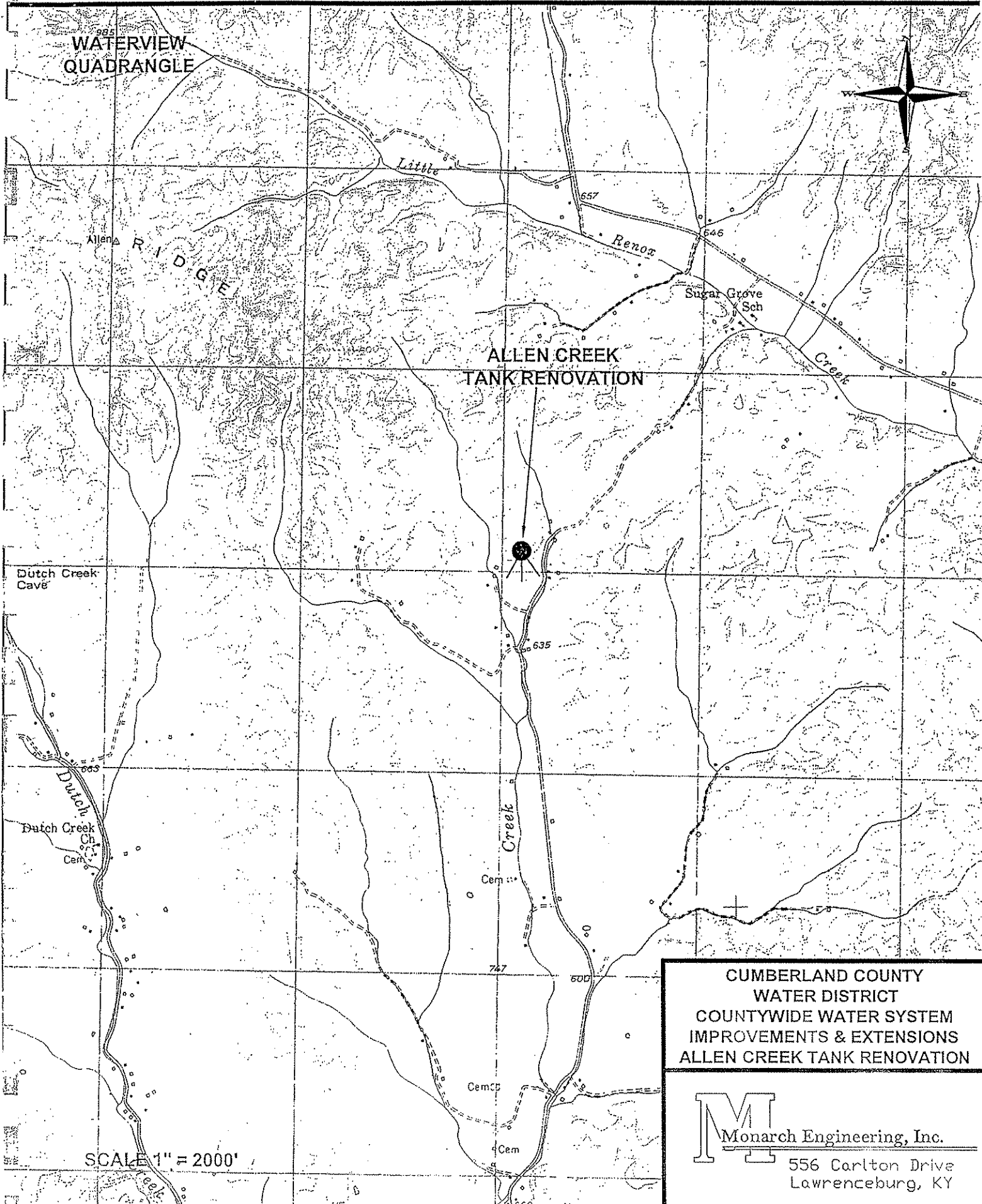
EXISTING 3-INCH  
WATER LINE

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
HOWARD SPEARS ROAD

**M**  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'





WATERVIEW  
QUADRANGLE

Allen  
R I D G E

ALLEN CREEK  
TANK RENOVATION

Sugar Grove  
Sch

Dutch Creek  
Cave

Dutch Creek  
Ch  
Cem

Cem

Cem

Cem

SCALE 1" = 2000'

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
ALLEN CREEK TANK RENOVATION



Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY



DUBRE  
QUADRANGLE

WATERVIEW  
QUADRANGLE



MARROWBONE  
TANK RENOVATION

Marrowbone

Marrowbone

Marrowbone

Creek

Hollow

Harmon

Branch

Creek

MARROWBONE

Butler

Turner

732

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
MARROWBONE TANK RENOVATION



Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'

Blair

Davis

White

Hollow

Creek

Fork

Franklin

Franklin  
Cem

Ford

Ford

BM  
516

Cem  
90

BM  
531

BM  
591

BM  
598

BM

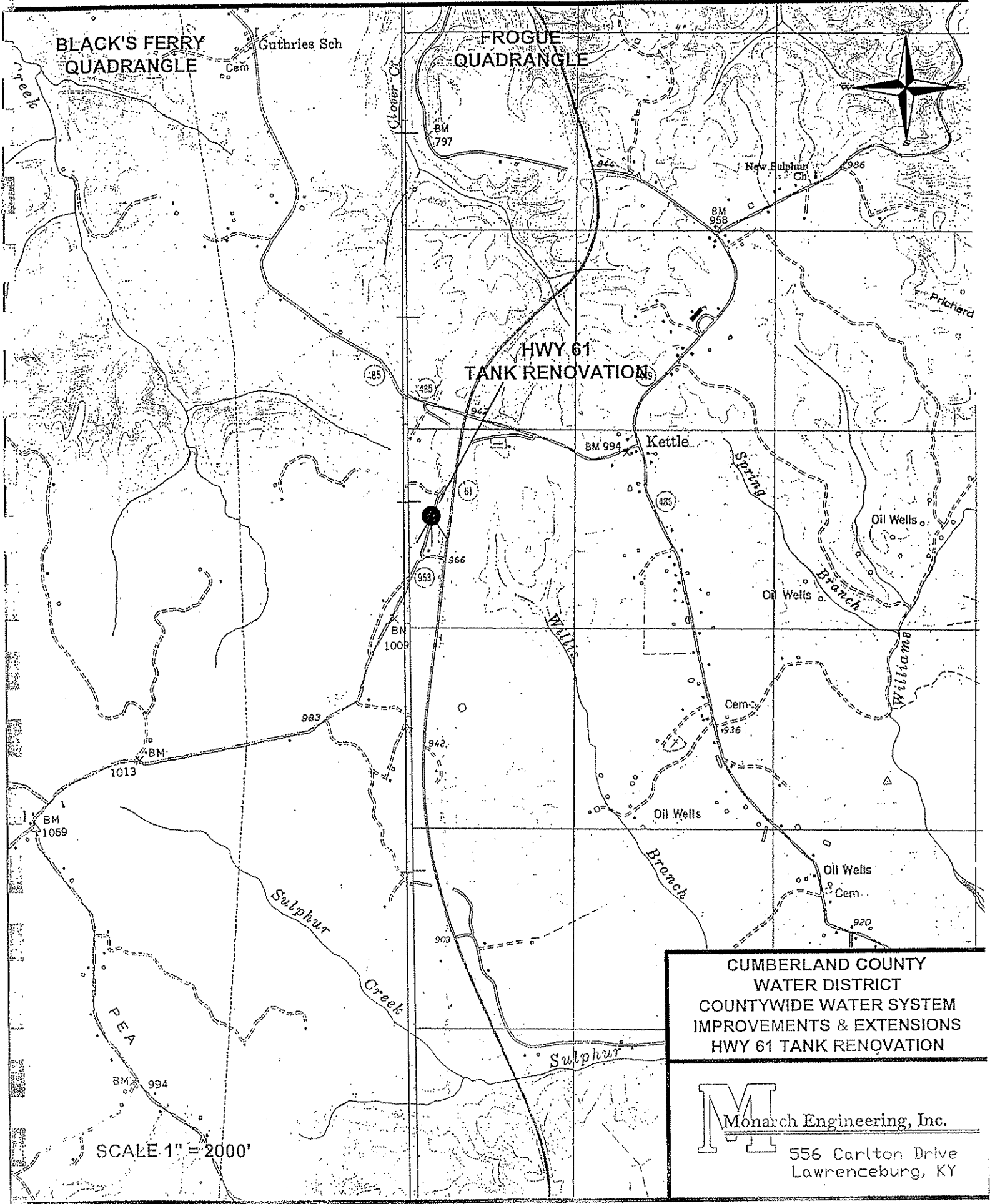
647

90

90

607

732



BLACK'S FERRY  
QUADRANGLE

FROGUE  
QUADRANGLE

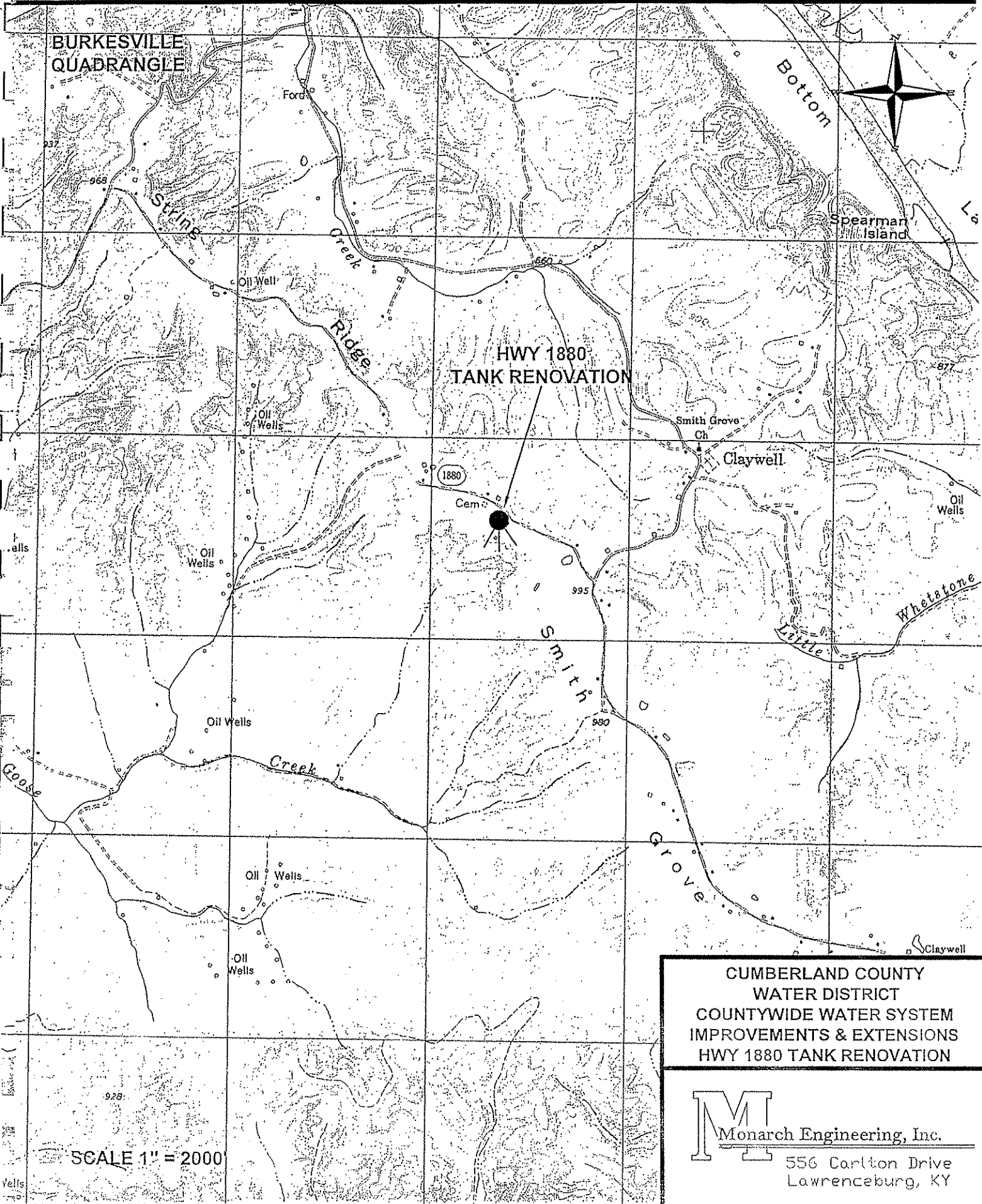
HWY 61  
TANK RENOVATION

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
HWY 61 TANK RENOVATION

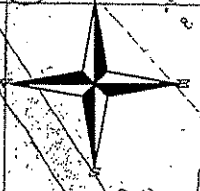
**M**  
Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'



BURKESVILLE  
QUADRANGLE

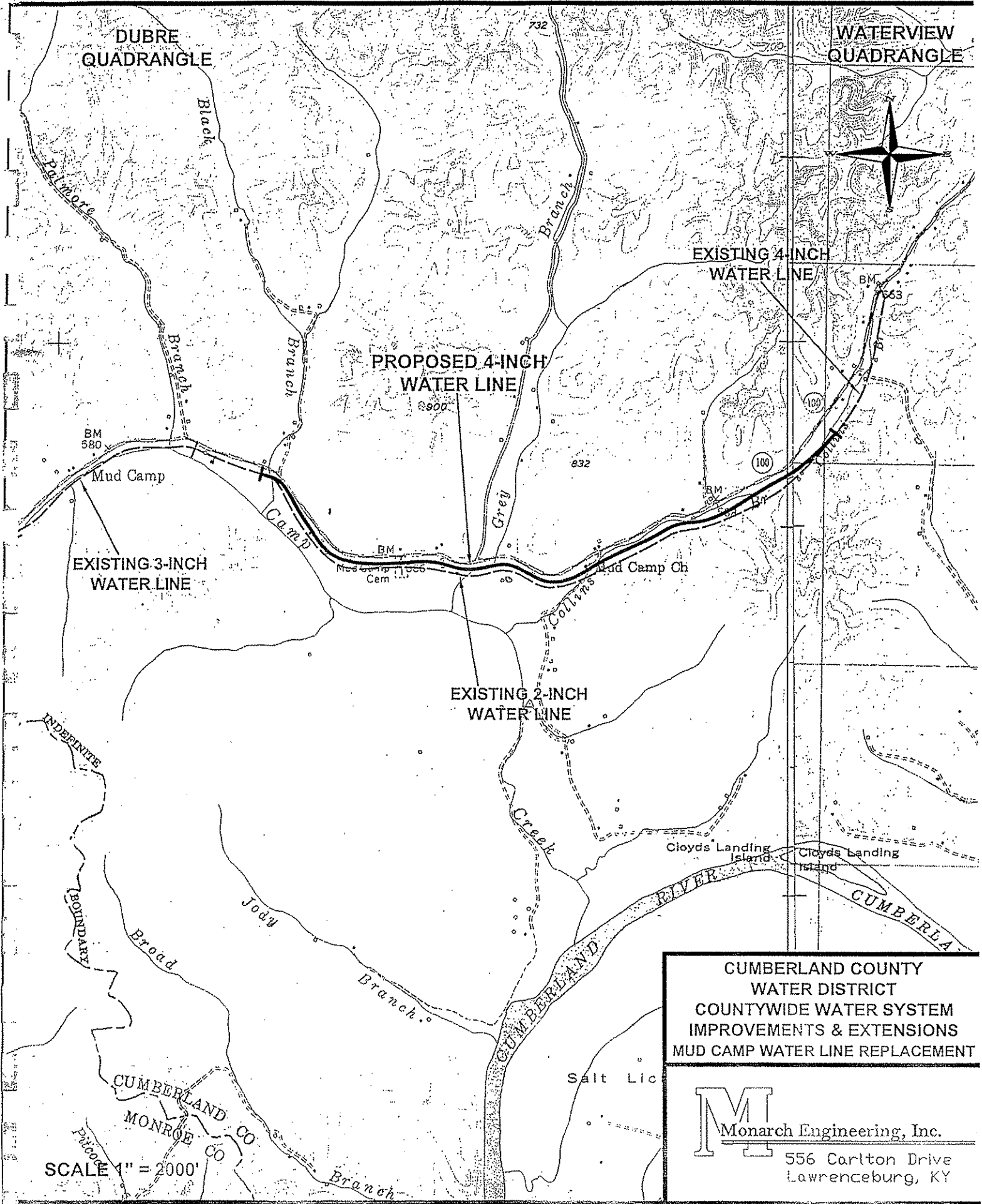


HWY 1880  
TANK RENOVATION

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
HWY 1880 TANK RENOVATION

**M**  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'

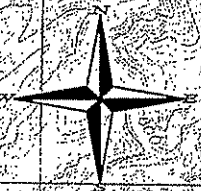


CUMBERLAND COUNTY  
 WATER DISTRICT  
 COUNTYWIDE WATER SYSTEM  
 IMPROVEMENTS & EXTENSIONS  
 MUD CAMP WATER LINE REPLACEMENT

**M** Monarch Engineering, Inc.  
 556 Carlton Drive  
 Lawrenceburg, KY

SCALE 1" = 2000'

WATERVIEW  
QUADRANGLE



EXISTING 6-INCH  
WATER LINE

PROPOSED 3-INCH  
WATER LINE

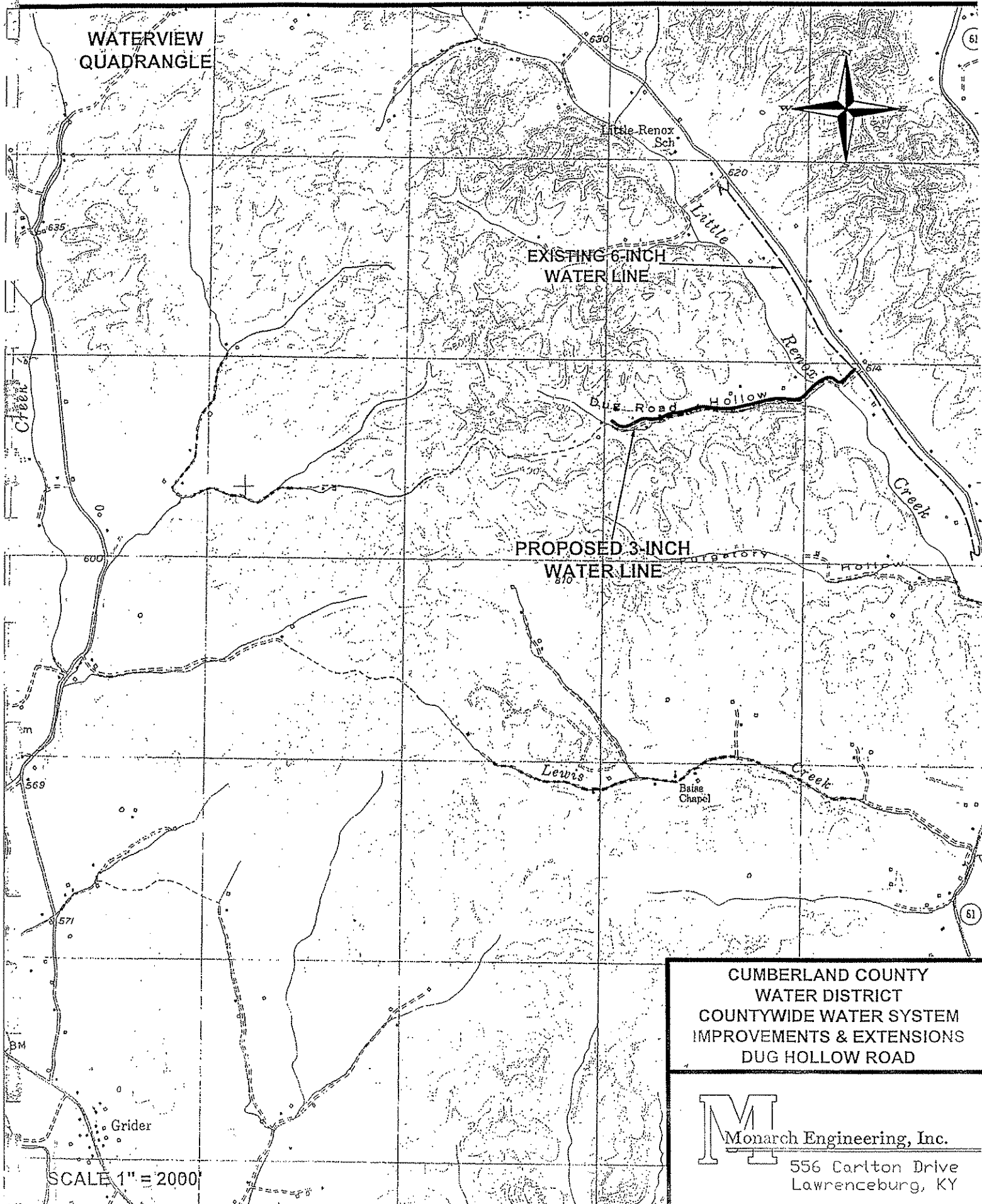
CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
DUG HOLLOW ROAD



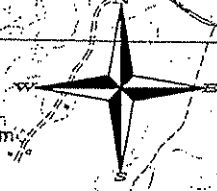
Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'



FROGUE  
QUADRANGLE



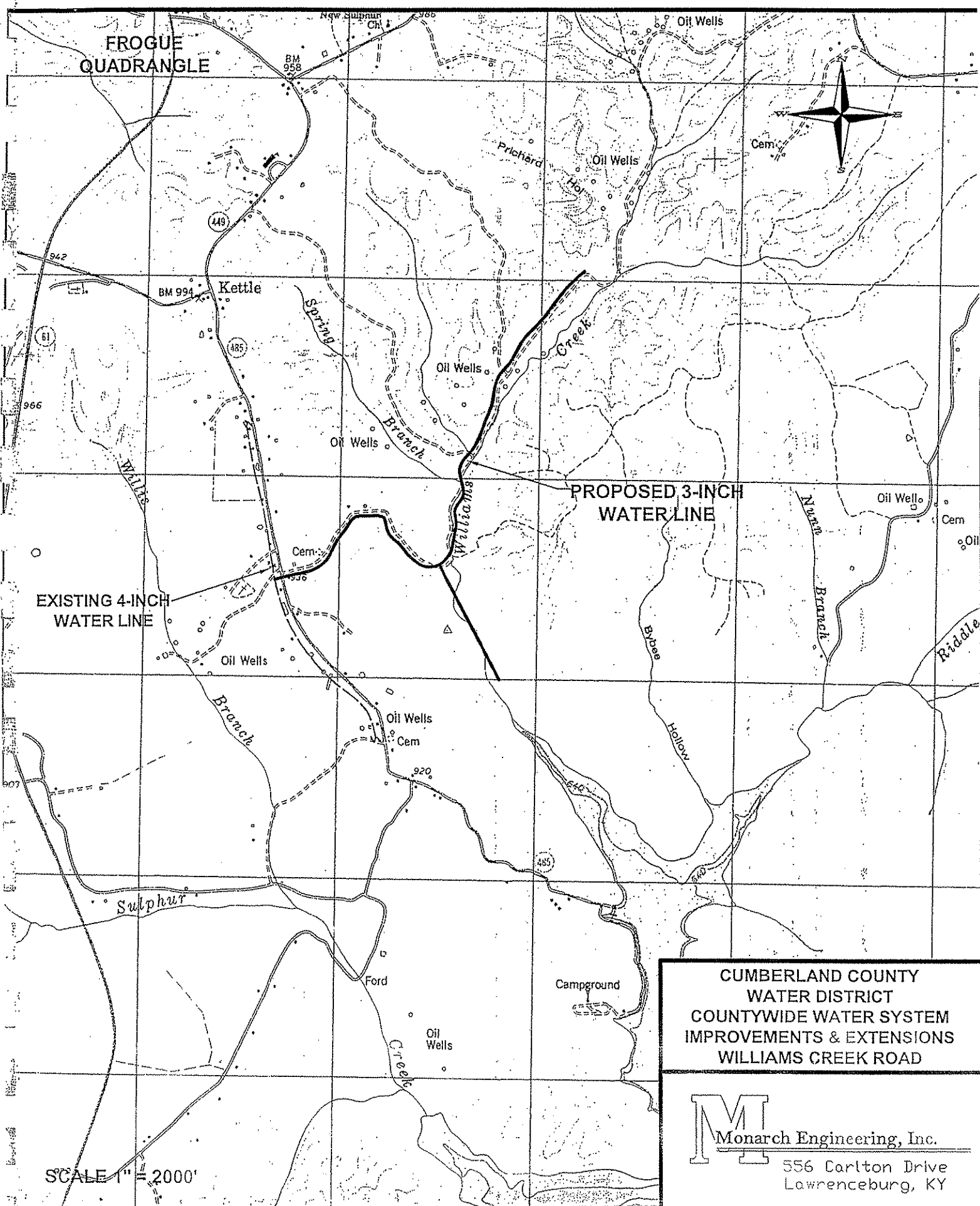
PROPOSED 3-INCH  
WATER LINE

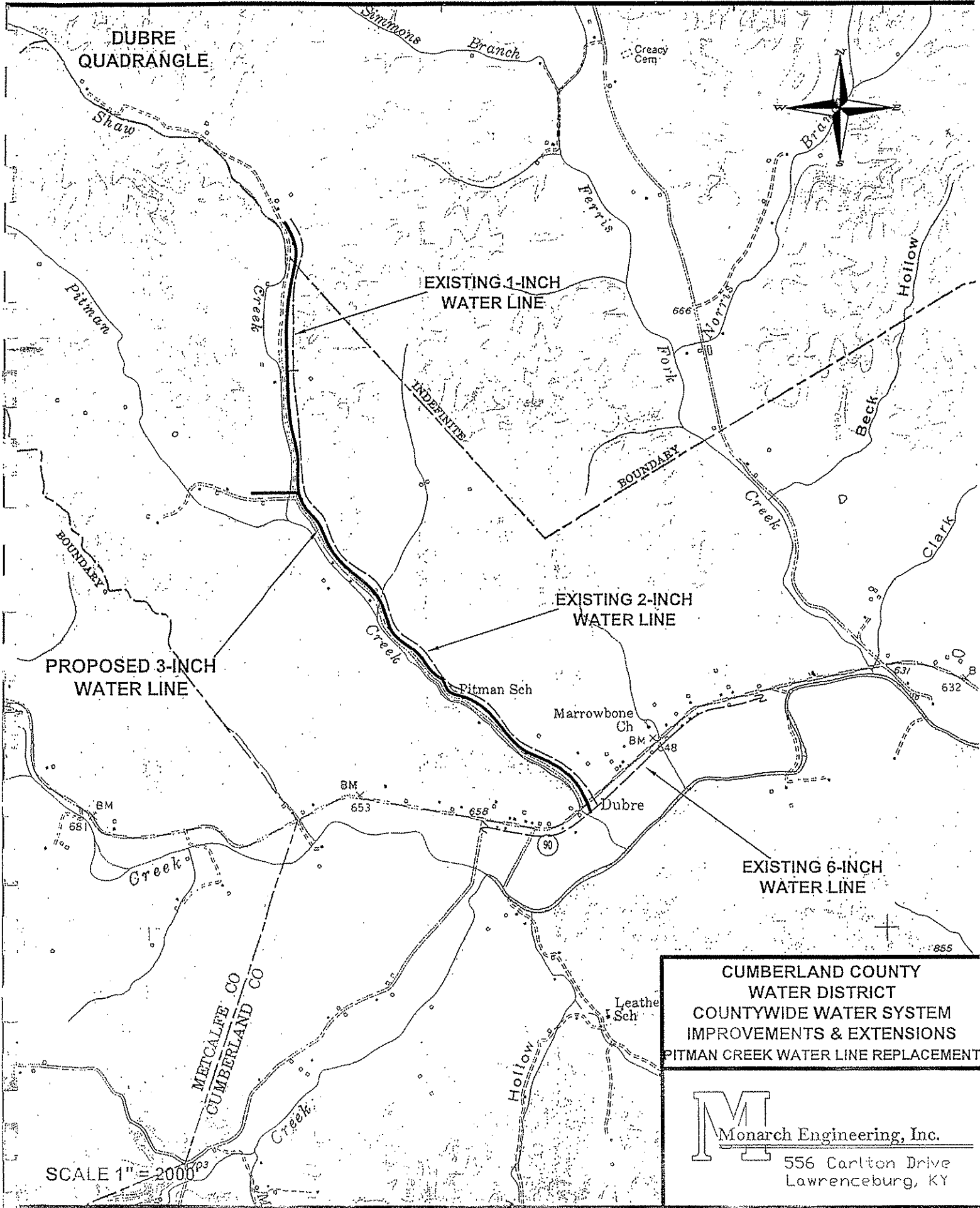
EXISTING 4-INCH  
WATER LINE

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
WILLIAMS CREEK ROAD

**M**  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'





DUBRE  
QUADRANGLE

EXISTING 1-INCH  
WATER LINE

EXISTING 2-INCH  
WATER LINE

PROPOSED 3-INCH  
WATER LINE

EXISTING 6-INCH  
WATER LINE

CUMBERLAND COUNTY  
WATER DISTRICT  
COUNTYWIDE WATER SYSTEM  
IMPROVEMENTS & EXTENSIONS  
PITMAN CREEK WATER LINE REPLACEMENT

**M**  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

SCALE 1" = 2000'





# FINAL ENGINEERING REPORT

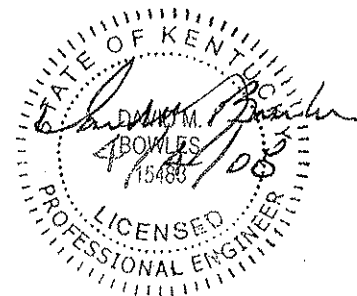
WATER SYSTEM IMPROVEMENTS &  
EXTENSIONS

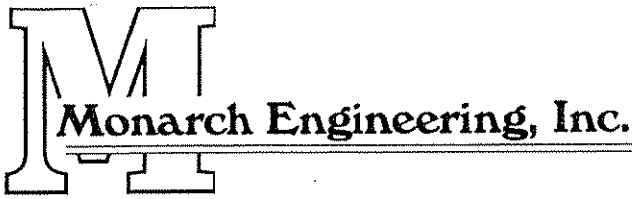
PHASE 1  
COUNTY WIDE WATER LINE EXTENSIONS

CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY

PROJECT 0668

APRIL 2008





April 4 2008

Mr. Steve Capps, Chairman  
Cumberland County Water District  
133 Lower River St.  
Burkesville, KY 42717

Re: Cumberland County Water District  
County Wide Water System Improvements & Extensions

Dear Mr. Capps:

On April 7, 2008 bids were received by the Cumberland County Water District for the first phase of the water system improvements and extension. This phase consists of the extension of water lines located throughout Cumberland County. Seven bids were received and the lowest was by United Pipeline, Inc. in the amount of \$548,660.00. Attached please find a copy of all of the bids received along with a Final Budget. A review of the budget reveals that the total project cost including a ten percent contingency is \$737,511.46 leaving an amount of \$679,388.54 for the phase 2 improvements. The intent is for this project to be considered to be a two phased project with this initial phase for water line extensions and the second phase is planned for system improvements such as water tank renovation and distribution system upgrades.

Based on the competitiveness of the bids, we recommend that you consider using a combination of the grant funds from the Kentucky General Assembly and grant and loan funds from USDA to complete the financing for this phase and consider awarding a contract to United Pipeline Inc. in the amount of \$548,660.00. In addition, we recommend that you now finalize the plan to undertake the system improvements now that the amount of available funds is known. This recommendation is contingent upon approval from the Kentucky Public Service Commission and USDA.

Should you need additional information, please advise.

Sincerely,

A handwritten signature in cursive script, appearing to read 'David M. Bowles'.

David M. Bowles, P.E.

/dmb

**FINAL COST ESTIMATE  
COUNTY WIDE WATER SYSTEM EXTENSIONS  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY  
APRIL 2008**

**PROJECT COSTS**

DEVELOPMENT	\$548,660.00
CONTINGENCY	54,866.00
ENGINEERING DESIGN	54,975.73
CONSTRUCTION INSPECTION	39,009.73
INTEREST	20,000.00
LEGAL & ADMINISTRATION	<u>20,000.00</u>
<b>TOTAL PROJECT COSTS - PHASE 1</b>	<b>\$737,511.46</b>
CONTINGENCY - PHASE 2	<u>679,388.54</u>
<b>TOTAL PROJECT COSTS</b>	<b>\$1,416,900.00</b>

**PROJECT FINANCING**

2006 KENTUCKY GENERAL ASSEMBLY GRANT	\$700,000.00
CUMBERLAND COUNTY WATER DISTRICT	6,900.00
RURAL DEVELOPMENT GRANT	295,000.00
RURAL DEVELOPMENT LOAN	<u>415,000.00</u>
<b>TOTAL PROJECT FINANCING</b>	<b>\$1,416,900.00</b>

**BID TABULATIONS**  
**CUMBERLAND COUNTY WATER DISTRICT**  
**COUNTY-WIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS**  
**CUMBERLAND COUNTY, KENTUCKY**

**BID DATE: APRIL 7, 2008 @ 2:00P.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	United Pipeline, Inc. 48 Hagan St. Tompkinsville, KY 42167		Southern Backhoe, Inc. 808 West Main St. Campbellsville, KY 42718		Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	<b>BASE CONTRACT</b>							
1	8-Inch PVC SDR 21 Water Line	14,700 LF	\$8.00	\$117,600.00	\$8.60	\$126,420.00	\$8.60	\$126,420.00
2	6-Inch PVC SDR 21 Water Line	4,450 LF	6.00	26,700.00	6.50	28,925.00	6.70	29,815.00
3	4-Inch PVC SDR 21 Water Line	24,700 LF	4.50	111,150.00	3.90	96,330.00	5.25	129,675.00
4	3-Inch PVC SDR 21 Water Line	21,100 LF	3.90	82,290.00	3.60	75,960.00	4.80	101,280.00
5	3-Inch PVC SDR 17 Water Line	12,530 LF	4.00	50,120.00	3.77	47,238.10	5.00	62,650.00
6	Bore & Case for 8-Inch WL	80 LF	60.00	4,800.00	85.00	6,800.00	100.00	8,000.00
7	Bore & Case for 6-Inch WL	30 LF	50.00	1,500.00	85.00	2,550.00	80.00	2,400.00
8	Bore & Case for 4-Inch WL	70 LF	50.00	3,500.00	65.00	4,550.00	70.00	4,900.00
9	Bore & Case for 3-Inch WL	200 LF	50.00	10,000.00	60.00	12,000.00	60.00	12,000.00
10	Creek Crossing for 4-Inch WL	310 LF	40.00	12,400.00	75.00	23,250.00	20.00	6,200.00
11	Creek Crossing for 3-Inch WL	170 LF	40.00	6,800.00	70.00	11,900.00	20.00	3,400.00
12	8-Inch Gate Valve	3 EA	800.00	2,400.00	725.00	2,175.00	825.00	2,475.00
13	6-Inch Gate Valve	1 EA	650.00	650.00	500.00	500.00	625.00	625.00
14	4-Inch Gate Valve	1 EA	450.00	450.00	440.00	440.00	540.00	540.00
15	3-Inch Gate Valve	12 EA	350.00	4,200.00	400.00	4,800.00	450.00	5,400.00
16	2-Inch Gate Valve	1 EA	300.00	300.00	300.00	300.00	425.00	425.00
17	Air Release Valve	2 EA	575.00	1,150.00	670.00	1,340.00	850.00	1,700.00
18	Flush Hydrant Assembly	4 EA	2,500.00	10,000.00	2,250.00	9,000.00	2,350.00	9,400.00
19	Blowoff Assembly	10 EA	650.00	6,500.00	650.00	6,500.00	550.00	5,500.00
20	Connection	12 EA	800.00	9,600.00	975.00	11,700.00	1,000.00	12,000.00
21	Meter Setting	25 EA	400.00	10,000.00	525.00	13,125.00	590.00	14,750.00
22	Meter Reconnection	50 EA	100.00	5,000.00	200.00	10,000.00	250.00	12,500.00
23	3/4-Inch Service Tubing	3,700 EA	1.50	5,550.00	3.00	11,100.00	3.20	11,840.00
24	Pressure Reducing Station	2 LS	24,000.00	48,000.00	14,000.00	28,000.00	15,000.00	30,000.00
25	Master Meter	1 LS	18,000.00	18,000.00	19,000.00	19,000.00	15,000.00	15,000.00
	<b>TOTAL BASE BID</b>			\$548,660.00		\$553,903.10		\$608,895.00

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 2:00P.M. LOCAL TIME, MONDAY, APRIL 7, 2008, AT THE CUMBERLAND COUNTY WATER DISTRICT.  
\*DENOTES AN ARITHMETIC ERROR WAS MADE ON BASE BID, AMOUNT HAS BEEN CORRECTED TO REFLECT UNIT PRICE SUBMITTED.

BY:  DATE: 4/8/08

David M. Bowles

MCNIARCH ENGINEERING, INC.  
 556 Carlton Drive  
 Lawrenceburg, KY 40342  
 Phone (502) 839-1310  
 Fax (502) 839-1373

BID TABULATIONS  
 CUMBERLAND COUNTY WATER DISTRICT  
 COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS  
 CUMBERLAND COUNTY, KENTUCKY  
 BID DATE: APRIL 7, 2008 @ 2:00P.M. LOCAL TIME

ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	ALTERNATE NO. 1							
1	3-Inch PVC SDR 21 Water Line	6,350 LF	\$3.90	\$24,765.00	\$3.60	\$22,860.00	\$4.80	\$30,480.00
2	Creek Crossing for 3-Inch WL	270 LF	40.00	10,800.00	70.00	18,900.00	20.00	5,400.00
3	3-Inch Gate Valve	1 EA	350.00	350.00	400.00	400.00	450.00	450.00
4	Blowoff Assembly	1 EA	650.00	650.00	650.00	650.00	550.00	550.00
5	Connection	1 EA	800.00	800.00	975.00	975.00	1,000.00	1,000.00
6	Meter Setting	1 EA	400.00	400.00	525.00	525.00	590.00	590.00
7	Meter Reconnection	11 EA	100.00	1,100.00	200.00	2,200.00	250.00	2,750.00
8	3/4-Inch Service Tubing	600 LF	1.50	900.00	3.00	1,800.00	3.20	1,920.00
	TOTAL ALTERNATE NO. 1			\$39,765.00		\$48,310.00		\$43,140.00

Southern Backhoe, Inc.  
 808 West Main St.  
 Campbellsville, KY 42718

United Pipeline, Inc.\*  
 48 Hagan St.  
 Tompkinsville, KY 42167

Stotts Construction Co., Inc.  
 P.O. Box 1689  
 Columbia, KY 42728

BID TABULATIONS  
 CUMBERLAND COUNTY WATER DISTRICT  
 COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS  
 CUMBERLAND COUNTY, KENTUCKY

BID DATE: APRIL 7, 2008 @ 2:00P.M. LOCAL TIME

ITEM NO.	DESCRIPTION	QUANTITY	D.F. Bailey, Inc. P.O. Box 439 Owingsville, KY 40360		Garrison Construction Co., Inc 6960 Greensburg Rd. Greensburg, KY 42743		Cleary Construction, Inc. 2006 Edmonton Rd. Tompkinsville, KY 42167	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	<b>BASE CONTRACT</b>							
1	8-Inch PVC SDR 21 Water Line	14,700 LF	\$9.90	\$145,530.00	\$11.30	\$166,110.00	\$12.70	\$186,690.00
2	6-Inch PVC SDR 21 Water Line	4,450 LF	7.29	32,440.50	8.80	39,160.00	7.00	31,150.00
3	4-Inch PVC SDR 21 Water Line	24,700 LF	5.26	129,922.00	6.75	166,725.00	6.90	170,430.00
4	3-Inch PVC SDR 21 Water Line	21,100 LF	4.45	93,895.00	5.75	121,325.00	6.20	130,820.00
5	3-Inch PVC SDR 17 Water Line	12,530 LF	4.66	58,389.80	6.00	75,180.00	6.40	80,192.00
6	Bore & Case for 8-Inch WL	80 LF	152.64	12,211.20	105.00	8,400.00	96.00	7,680.00
7	Bore & Case for 6-Inch WL	30 LF	141.18	4,235.40	95.00	2,850.00	81.00	2,430.00
8	Bore & Case for 4-Inch WL	70 LF	129.73	9,081.10	90.00	6,300.00	74.00	5,180.00
9	Bore & Case for 3-Inch WL	200 LF	117.64	23,528.00	70.00	14,000.00	72.00	14,400.00
10	Creek Crossing for 4-Inch WL	310 LF	39.09	12,117.90	50.00	15,500.00	42.00	13,020.00
11	Creek Crossing for 3-Inch WL	170 LF	34.80	5,916.00	50.00	8,500.00	41.00	6,970.00
12	8-Inch Gate Valve	3 EA	865.19	2,595.57	905.00	2,715.00	900.00	2,700.00
13	6-Inch Gate Valve	1 EA	599.63	599.63	635.00	635.00	650.00	650.00
14	4-Inch Gate Valve	1 EA	490.92	490.92	525.00	525.00	500.00	500.00
15	3-Inch Gate Valve	12 EA	444.51	5,334.12	465.00	5,580.00	450.00	5,400.00
16	2-Inch Gate Valve	1 EA	368.26	368.26	395.00	395.00	380.00	380.00
17	Air Release Valve	2 EA	2,010.16	4,020.32	590.00	1,180.00	450.00	900.00
18	Flush Hydrant Assembly	4 EA	2,682.26	10,729.04	2,457.00	9,828.00	2,400.00	9,600.00
19	Blowoff Assembly	10 EA	1,130.40	11,304.00	750.00	7,500.00	700.00	7,000.00
20	Connection	12 EA	1,764.01	21,168.12	1,375.00	16,500.00	1,200.00	14,400.00
21	Meter Setting	25 EA	712.02	17,800.50	687.00	17,175.00	515.00	12,875.00
22	Meter Reconnection	50 EA	451.80	22,590.00	525.00	26,250.00	225.00	11,250.00
23	3/4-Inch Service Tubing	3,700 EA	4.05	14,985.00	3.75	13,875.00	4.00	14,800.00
24	Pressure Reducing Station	2 LS	17,373.53	34,747.06	15,625.00	31,250.00	14,700.00	29,400.00
25	Master Meter	1 LS	19,580.60	19,580.60	19,150.00	19,150.00	18,000.00	18,000.00
	<b>TOTAL BASE BID</b>			\$693,580.04		\$776,608.00		\$776,817.00

MONARCH ENGINEERING, INC.  
 556 Carlton Drive  
 Lawrenceburg, KY 40342  
 Phone (502) 839-1310  
 Fax (502) 839-1373

BID TABULATIONS

CUMBERLAND COUNTY WATER DISTRICT  
 COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS  
 CUMBERLAND COUNTY, KENTUCKY

BID DATE: APRIL 7, 2008 @ 2:00P.M. LOCAL TIME

ITEM NO.	DESCRIPTION	QUANTITY	D.F. Bailey, Inc. P.O. Box 439 Owingsville, KY 40360		Garrison Construction Co., Inc 6960 Greensburg Rd. Greensburg, KY 42743		Cleary Construction, Inc. 2006 Edmonton Rd. Tompkinsville, KY 42167	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
ALTERNATE NO. 1								
1	3-Inch PVC SDR 21 Water Line	6,350 LF	\$4.45	\$28,257.50	\$5.75	\$36,512.50	\$6.20	\$39,370.00
2	Creek Crossing for 3-Inch WL	270 LF	34.80	9,396.00	50.00	13,500.00	41.00	11,070.00
3	3-Inch Gate Valve	1 EA	444.51	444.51	465.00	465.00	450.00	450.00
4	Blowoff Assembly	1 EA	1,130.40	1,130.40	750.00	750.00	700.00	700.00
5	Connection	1 EA	1,764.01	1,764.01	1,375.00	1,375.00	1,200.00	1,200.00
6	Meter Setting	1 EA	712.02	712.02	687.00	687.00	515.00	515.00
7	Meter Reconnection	11 EA	451.80	4,969.80	525.00	5,775.00	225.00	2,475.00
8	3/4-Inch Service Tubing	600 LF	4.05	2,430.00	3.75	2,250.00	4.00	2,400.00
TOTAL ALTERNATE NO. 1				\$49,104.24		\$61,314.50		\$58,180.00

MONARCH ENGINEERING, INC.  
 556 Carlton Drive  
 Lawrenceburg, KY 40342  
 Phone (502) 839-1310  
 Fax (502) 839-1373

**BID TABULATIONS**  
**CUMBERLAND COUNTY WATER DISTRICT**  
**COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS**  
**CUMBERLAND COUNTY, KENTUCKY**  
**BID DATE: APRIL 7, 2008 @ 2:00P.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
<b>BASE CONTRACT</b>				
1	8-Inch PVC SDR 21 Water Line	14,700 LF	\$12.50	\$183,750.00
2	6-Inch PVC SDR 21 Water Line	4,450 LF	9.00	40,050.00
3	4-Inch PVC SDR 21 Water Line	24,700 LF	7.00	172,900.00
4	3-Inch PVC SDR 21 Water Line	21,100 LF	6.50	137,150.00
5	3-Inch PVC SDR 17 Water Line	12,530 LF	6.70	83,951.00
6	Bore & Case for 8-Inch WL	80 LF	100.00	8,000.00
7	Bore & Case for 6-Inch WL	30 LF	80.00	2,400.00
8	Bore & Case for 4-Inch WL	70 LF	65.00	4,550.00
9	Bore & Case for 3-Inch WL	200 LF	55.00	11,000.00
10	Creek Crossing for 4-Inch WL	310 LF	50.00	15,500.00
11	Creek Crossing for 3-Inch WL	170 LF	50.00	8,500.00
12	8-Inch Gate Valve	3 EA	800.00	2,400.00
13	6-Inch Gate Valve	1 EA	550.00	550.00
14	4-Inch Gate Valve	1 EA	450.00	450.00
15	3-Inch Gate Valve	12 EA	400.00	4,800.00
16	2-Inch Gate Valve	1 EA	330.00	330.00
17	Air Release Valve	2 EA	440.00	880.00
18	Flush Hydrant Assembly	4 EA	2,500.00	10,000.00
19	Blowoff Assembly	10 EA	800.00	8,000.00
20	Connection	12 EA	1,300.00	15,600.00
21	Meter Setting	25 EA	520.00	13,000.00
22	Meter Reconnection	50 EA	275.00	13,750.00
23	3/4-Inch Service Tubing	3,700 EA	5.50	20,350.00
24	Pressure Reducing Station	2 LS	17,000.00	34,000.00
25	Master Meter	1 LS	20,000.00	20,000.00
<b>TOTAL BASE BID</b>				<b>\$811,861.00</b>

Twin States Utilities, Inc.  
 P.O. Box 14  
 Mt. Hermon, KY 42157



MCNARCH ENGINEERING, INC.  
 556 Carlton Drive  
 Lawrenceburg, KY 40342  
 Phone (502) 839-1310  
 Fax (502) 839-1373

**BID TABULATIONS**  
**CUMBERLAND COUNTY WATER DISTRICT**  
**COUNTYWIDE WATER SYSTEM EXTENSIONS & IMPROVEMENTS**  
**CUMBERLAND COUNTY, KENTUCKY**  
**BID DATE: APRIL 7, 2008 @ 2:00P.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
	ALTERNATE NO. 1			
1	3-inch PVC SDR 21 Water Line	6,350 LF	\$6.50	\$41,275.00
2	Creek Crossing for 3-inch WL	270 LF	50.00	13,500.00
3	3-Inch Gate Valve	1 EA	400.00	400.00
4	Blowoff Assembly	1 EA	800.00	800.00
5	Connection	1 EA	1,300.00	1,300.00
6	Meter Setting	1 EA	520.00	520.00
7	Meter Reconnection	11 EA	275.00	3,025.00
8	3/4-Inch Service Tubing	600 LF	5.50	3,300.00
	TOTAL ALTERNATE NO. 1			\$64,120.00

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