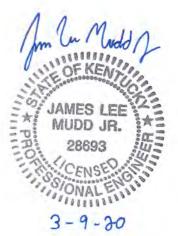
FINAL ENGINEERING REPORT

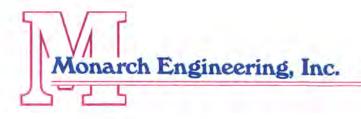
SOUTH LAUREL WATER SYSTEM IMPROVEMENTS

LAUREL COUNTY WATER DISTRICT NO. 2 LAUREL COUNTY, KENTUCKY

MARCH 2020

march Engineering, Inc.





February 3, 2020

Mr. Roy Wayne Jenkins, Chairman Laurel County Water District No. 2 P.O. Box 2598 London, KY 40743

Re: South Laurel Water System Improvements Bid Opening Results and Recommendations

Dear Mr. Jenkins:

On January 31, 2020, bids were received by the Laurel County Water District No. 2 for the construction of various water system improvements, known collectively as the South Laurel Water System Improvements. The project includes the construction of various interconnections throughout the southern portion of the water system as required to abandon the remaining section of the 14-inch water main along the CSX Railroad. A new 500,000-gallon water storage tank in the Hopewell community is also included as part of the project. The project is separated into two (2) construction contracts as follows:

- Contract No. 1: Water Mains
- Contract No. 2: Hopewell Water Storage Tank

Considering Contract No. 1, four (4) bids were received, with the lowest being submitted by Akins Excavating Co., Inc. of Corbin, Kentucky for \$758,805.00. Considering Contract No. 2, two (2) bids were received, with the lowest being submitted by Phoenix Fabricators & Erectors, LLC of Avon, IN for \$1,412,666.00. A summarized tabulation of all bids received for each contract is attached for your reference.

As indicated in the attached Final Project Budget, summing the low bid from each construction contract results in a total construction cost of \$2,171,471, and a total project cost, including contingency, of \$2,700,000.00. Given that the current amount of available project funding is \$2,350,000.00, the resulting budget shortfall is \$350,000.00. However, based on the competitive nature of the bids received, and the necessity of the proposed improvements, we strongly recommend that the District consider acquiring the additional funds needed to proceed with the development of the project in full.

February 3, 2020 Page Two

U.S.D.A. Rural Development has indicated that they can likely provide the additional \$350,000.00 in needed project financing. However, a final determination relative to the nature of the financing will not be made until a formal request is submitted. It is recommended that the District seek an additional \$275,000 low-interest loan and a \$75,000 grant. This equates to a loan/grant ratio that is consistent with the original funding package. However, depending on the availability of grant funds, the full \$350,000 could be in the form of a loan.

Once an additional funding commitment is obtained, we recommend that the District proceed with contract awards to both Akins Excavating Co., Inc. and Phoenix Fabricators & Erectors, LLC for their full bid amounts.

Please be advised that acquiring the additional financing could be a fairly lengthy process and should begin immediately. A delay in action on the part of the District could result in an inability to award the contracts before the bids expire. Therefore, we recommend that you take action now to minimize the delay and ensure the realization of this much needed project.

All recommendations detailed herein are contingent upon approval from USDA Rural Development and the Kentucky Public Service Commission.

Should you have any questions or require any additional information, please advise.

Sincerely,

Jun In Mudd /

Lee Mudd, P.E. Project Engineer

/jlm Attachments

Cc: Clay McKnight Area Specialist, USDA Rural Development

> Anthony Hollinsworth Program Director, USDA Rural Development

Julie Anderson State Engineer, USDA Rural Development

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

BID TABULATIONS LAUREL COUNTY WATER DISTRICT NO. 2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS CONTRACT NO. 1 LAUREL COUNTY, KENTUCKY BID DATE: JANUARY 31, 2020 @ 11:00 A.M. LOCAL TIME

| | | | Akins Excavating Company, Inc.* 182 Busy Lane Corbin, KY 40701 | | Clay Pipeline 70 Fox Hollow Road Manchester, KY 40962 | |
|-----------------|---------------------------------------|---------------------------------------|--|--------------|---|-------------|
| ITEM | and the second | da sindi | UNIT | TOTAL | UNIT | TOTAL |
| NO. | DESCRIPTION | QUANTITY | PRICE | COST | PRICE | COST |
| | BASE BID CONTRACT | | | | | |
| 1 | 16-Inch HDPE DR-9 Water Line | 100 LF | \$120.00 | \$12,000.00 | \$181.00 | \$18,100.00 |
| 2 | 16-Inch HDPE DR-9 Water Line | · · · · · · · · · · · · · · · · · · · | | | | |
| , in the second | via Directional Bore | 200 LF | 132.00 | 26,400.00 | 294.00 | 58,800.00 |
| 3 | 12-Inch PVC SDR-17 Water Line | 4,770 LF | 30.00 | . 143,100.00 | 31.80 | 151,686.00 |
| 4 | 12-Inch PVC SDR-21 R.J. Water Line | 185 LF | 44.00 | 8,140.00 | 46.40 | 8,584.00 |
| 5 | 10-Inch PVC SDR-17 Water Line | 100 LF | 25.00 | 2,500.00 | 35.00 | 3,500.00 |
| 6 | 8-Inch PVC SDR-17 Water Line | 1,090 LF | 21.00 | 22,890.00 | 21.00 | 22,890.00 |
| 7 | 8-Inch PVC SDR-17 R.J. Water Line | 300 LF | 32.00 | 9,600.00 | 30.35 | 9,105.00 |
| 8 | 6-Inch PVC SDR-17 Water Line | 2,570 LF | 16.00 | 41,120.00 | 17.00 | 43,690.00 |
| 9 | 6-Inch PVC SDR-17 I.B.R.J. Water Line | 370 LF | 22.00 | 8,140.00 | 23.20 | 8,584.00 |
| 10 | 4-Inch PVC SDR-17 Water Line | 2,685 LF | 12.00 | 32,220.00 | 12.50 | 33,562.50 |
| 11 | 3-Inch PVC SDR-17 Water Line | 1,670 LF | 9.50 | 15,865.00 | 9.65 | 16,115.50 |
| 12 | 2-Inch PVC SDR-17 Water Line | 790 LF | 8.50 | 6,715.00 | 8.75 | 6,912.50 |
| 13 | Bore & Case for 12-Inch Water Line | 100 LF | 195.00 | 19,500.00 | 207.50 | 20,750.00 |
| 14 | Bore & Case for 8-Inch Water Line | 280 LF | 170.00 | 47,600.00 | 157.70 | 44,156.00 |
| 15 | Bore & Case for 6-Inch Water Line | 365 LF | 125.00 | 45,625.00 | 133.80 | 48,837.00 |
| 16 | Bore & Case for 3-Inch Water Line | 50 LF | 120.00 | 6,000.00 | 107.50 | 5,375.00 |
| 17 | Driveway Bore & Case for 12-Inch W.L. | 670 LF | 75.00 | 50,250.00 | 95.90 | 64,253.00 |
| 18 | Driveway Bore & Case for 4-Inch W.L. | 90 LF | 43.00 | 3,870.00 | | 4,734.00 |
| | BASE BID CONTRACT - Continued | | | | | |

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00 A.M. LOCAL TIME, FRIDAY, JANUARY 31, 2020 AT THE LAUREL COUNTY WATER DISTRICT NO. 2. * DENOTES AN ARITHMETIC ERROR WAS MADE ON BASE BID, AMOUNT HAS BEEN CORRECTED TO REFLECT UNIT PRICE SUBMITTED.

BY: m James Lee Mudd. Project No. 1813

-3-2020 8 Date

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839~1373

BID TABULATIONS LAUREL COUNTY WATER DISTRICT NO. 2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS CONTRACT NO. 1 LAUREL COUNTY, KENTUCKY BID DATE: JANUARY 31, 2020 @ 11:00 A.M. LOCAL TIME

| | | | 182 Busy Lane | | Clay Pipeline 70 Fox Hollow Road Manchester, KY 40962 | |
|------|--------------------------------------|----------|---------------|--------------|---|--------------|
| ITEM | | | UNIT | TOTAL | UNIT | TOTAL |
| NO. | DESCRIPTION | QUANTITY | PRICE | COST | PRICE | COST |
| | BASE BID CONTRACT - Continued | | | | | |
| 19 | Creek Crossing for 4-Inch Water Line | 20 LF | \$70.00 | \$1,400.00 | \$48.80 | \$976.00 |
| 20 | Creek Crossing for 3-Inch Water Line | 20 LF | 70.00 | 1,400.00 | 50.00 | 1,000.00 |
| 21 | Direct Connection | 26 EA | 1,750.00 | 45,500.00 | 1,290.00 | 33,540.00 |
| 22 | Type II Connection | 3 EA | 2,535.00 | 7,605.00 | 1,830.00 | 5,490.00 |
| 23 | 16-Inch Butterfly Valve | 2 EA | 8,645.00 | 17,290.00 | 6,195.00 | 12,390.00 |
| 24 | 12-Inch Gate Valve | 9 EA | 3,360.00 | 30,240.00 | 3,165.00 | 28,485.00 |
| 25 | 10-inch Gate Valve | 1 EA | 2,715.00 | 2,715.00 | 2,783.00 | 2,783.00 |
| 26 | 8-Inch Gate Valve | 9 EA | 2,200.00 | 19,800.00 | 1,929.00 | 17,361.00 |
| 27 | 6-Inch Gate Valve | 5 EA | 1,425.00 | 7,125.00 | 1,360.00 | 6,800.00 |
| 28 | 4-Inch Gate Valve | 11 EA | 1,135.00 | 12,485.00 | 1,186.00 | 13,046.00 |
| 29 | 3-Inch Gate Valve | 2 EA | 1,060.00 | 2,120.00 | 1,081.00 | 2,162.00 |
| 30 | 2-Inch Gate Valve | 2 EA | 895.00 | 1,790.00 | 842.00 | 1,684.00 |
| 31 | 3-Way Flush Hydrant Assembly | 5 EA | 5,850.00 | * 29,250.00 | 5,545.00 | 27,725.00 |
| 32 | Blowoff Assembly | 2 EA | 3,300.00 | 6,600.00 | 2,068.00 | 4,136.00 |
| 33 | Meter Setting (Less Meter) | 9 EA | 1,265.00 | 11,385.00 | 1,070.00 | 9,630.00 |
| 34 | Meter Reconnection | 23 EA | 630.00 | 14,490.00 | 425.00 | 9,775.00 |
| 35 | Service Line Reconnection | 9 EA | 625.00 | 5,625.00 | 610.00 | 5,490.00 |
| 36 | 1-Inch PE Service Tubing | 620 LF | 10.00 | 6,200.00 | 12.65 | 7,843.00 |
| 37 | 3/4-Inch PE Service Tubing | 1,025 LF | 10.00 | 10,250.00 | | 12,812.50 |
| 38 | Exploration | 120 HR | 200.00 | 24,000.00 | 200.00 | 24,000.00 |
| | TOTAL BASE BID | | | \$758,805.00 | | \$796,763.00 |

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

BID TABULATIONS LAUREL COUNTY WATER DISTRICT NO. 2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS **CONTRACT NO. 1** LAUREL COUNTY, KENTUCKY

BID DATE: JANUARY 31, 2020 @ 11:00 A.M. LOCAL TIME

| | | | United Pipeline, Inc. 150 Hill Road Tompkinsville, KY 42167 | | Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728 | |
|------|---------------------------------------|----------|---|-------------|--|-------------|
| ITEM | | | UNIT | TOTAL | UNIT | TOTAL |
| NO. | DESCRIPTION | QUANTITY | PRICE | COST | PRICE | COST |
| | BASE BID CONTRACT | | | | | |
| 1 | 16-Inch HDPE DR-9 Water Line | 100 LF | \$222.00 | \$22,200.00 | \$140.00 | \$14,000.00 |
| 2 | 16-Inch HDPE DR-9 Water Line | | | | | |
| | via Directional Bore | 200 LF | 374.00 | 74,800.00 | 275.00 | 55,000.00 |
| 3 | 12-Inch PVC SDR-17 Water Line | 4,770 LF | 63.00 | 300,510.00 | 47.00 | 224,190.00 |
| 4 | 12-Inch PVC SDR-21 R.J. Water Line | 185 LF | 67.00 | 12,395.00 | 46.00 | 8,510.00 |
| 5 | 10-Inch PVC SDR-17 Water Line | 100 LF | 50.00 | 5,000.00 | 45.00 | 4,500.00 |
| 6 | 8-Inch PVC SDR-17 Water Line | 1,090 LF | 30.00 | 32,700.00 | 32.00 | 34,880.00 |
| 7 | 8-Inch PVC SDR-17 R.J. Water Line | 300 LF | 36.00 | 10,800.00 | 30.00 | 9,000.00 |
| 8 | 6-Inch PVC SDR-17 Water Line | 2,570 LF | 20.00 | 51,400.00 | 25.00 | 64,250.00 |
| 9 | 6-Inch PVC SDR-17 I.B.R.J. Water Line | 370 LF | 25.00 | 9,250.00 | 25.00 | 9,250.00 |
| 10 | 4-Inch PVC SDR-17 Water Line | 2,685 LF | 16.00 | 42,960.00 | 22.00 | 59,070.00 |
| 11 | 3-Inch PVC SDR-17 Water Line | 1,670 LF | 15.00 | 25,050.00 | 17.00 | 28,390.00 |
| 12 | 2-Inch PVC SDR-17 Water Line | 790 LF | 14.00 | 11,060.00 | 15.00 | 11,850.00 |
| 13 | Bore & Case for 12-Inch Water Line | 100 LF | 293.00 | 29,300.00 | 250.00 | 25,000.00 |
| 14 | Bore & Case for 8-Inch Water Line | 280 LF | 253.00 | 70,840.00 | 255.00 | 71,400.00 |
| 15 | Bore & Case for 6-Inch Water Line | 365 LF | 224.00 | 81,760.00 | 350.00 | 127,750.00 |
| 16 | Bore & Case for 3-Inch Water Line | 50 LF | 184.00 | 9,200.00 | 120.00 | 6,000.00 |
| 17 | Driveway Bore & Case for 12-Inch W.L. | 670 LF | 138.00 | 92,460.00 | 200.00 | 134,000.00 |
| 18 | Driveway Bore & Case for 4-Inch W.L. | 90 LF | 80.00 | 7,200.00 | 60.00 | 5,400.00 |
| | BASE BID CONTRACT - Continued | | | | | |

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

BID TABULATIONS LAUREL COUNTY WATER DISTRICT NO. 2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS CONTRACT NO. 1 LAUREL COUNTY, KENTUCKY BID DATE: JANUARY 31, 2020 @ 11:00 A.M. LOCAL TIME

| | | | United Pipeline, I 150 Hill Road Tompkinsville, K | nc. | Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728 | |
|------|--------------------------------------|----------|---|----------------|--|----------------|
| ITEM | | | UNIT | TOTAL | UNIT | TOTAL |
| NO. | DESCRIPTION | QUANTITY | PRICE | COST | PRICE | COST |
| | BASE BID CONTRACT - Continued | | | | | |
| 19 | Creek Crossing for 4-Inch Water Line | 20 LF | \$40.00 | \$800.00 | \$80.00 | \$1,600.00 |
| 20 | Creek Crossing for 3-Inch Water Line | 20 LF | 35.00 | 700.00 | 80.00 | 1,600.00 |
| 21 | Direct Connection | 26 EA | 1,000.00 | 26,000.00 | 2,100.00 | 54,600.00 |
| 22 | Type II Connection | 3 EA | 1,500.00 | 4,500.00 | 3,200.00 | 9,600.00 |
| 23 | 16-Inch Butterfly Valve | 2 EA | 10,000.00 | 20,000.00 | 7,000.00 | 14,000.00 |
| 24 | 12-Inch Gate Valve | 9 EA | 4,000.00 | 36,000.00 | 2,500.00 | 22,500.00 |
| 25 | 10-Inch Gate Vaive | 1 EA | 3,600.00 | 3,600.00 | 2,800.00 | 2,800.00 |
| 26 | 8-Inch Gate Valve | 9 EA | 2,200.00 | 19,800.00 | 1,600.00 | 14,400.00 |
| 27 | 6-Inch Gate Valve | 5 EA | 1,800.00 | 9,000.00 | 1,200.00 | 6,000.00 |
| 28 | 4-Inch Gate Valve | 11 EA | 1,500.00 | 16,500.00 | 1,000.00 | 11,000.00 |
| 29 | 3-Inch Gate Valve | 2 EA | 1,700.00 | 3,400.00 | 950.00 | 1,900.00 |
| 30 | 2-Inch Gate Valve | 2 EA | 1,400.00 | 2,800.00 | 850.00 | 1,700.00 |
| 31 | 3-Way Flush Hydrant Assembly | 5 EA | 4,600.00 | 23,000.00 | 4,500.00 | 22,500.00 |
| 32 | Blowoff Assembly | 2 EA | 2,700.00 | 5,400.00 | 2,500.00 | 5,000.00 |
| 33 | Meter Setting (Less Meter) | 9 EA | 1,000.00 | 9,000.00 | 1,200.00 | 10,800.00 |
| 34 | Meter Reconnection | 23 EA | 400.00 | 9,200.00 | 600.00 | 13,800.00 |
| 35 | Service Line Reconnection | 9 EA | 200.00 | 1,800.00 | 400.00 | 3,600.00 |
| 36 | 1-Inch PE Service Tubing | 620 LF | 14.00 | 8,680.00 | 18.00 | 11,160.00 |
| 37 | 3/4-Inch PE Service Tubing | 1,025 LF | 10.00 | 10,250.00 | 18.00 | 18,450.00 |
| 38 | Exploration | 120 HR | 55.00 | 6,600.00 | 100.00 | 12,000.00 |
| | TOTAL BASE BID | | | \$1,105,915.00 | | \$1,131,450.00 |

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

BID TABULATIONS LAUREL COUNTY WATER DISTRICT NO. 2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS CONTRACT NO. 2 - HOPEWELL WATER STORAGE TANK LAUREL COUNTY, KENTUCKY BID DATE: JANUARY 31, 2020 @ 11:00 A.M. LOCAL TIME

| | | | Phoenix Fabricators, LLC 182 South County Rd. 900 East Avon, IN 46123 | | Caldwell Tanks, Inc. 4000 Tower Road Louisville, KY 40219 | |
|------|---|----------|---|--|---|----------------|
| ITEM | | | UNIT | TOTAL | UNIT | TOTAL |
| NO. | DESCRIPTION | QUANTITY | PRICE | COST | PRICE | COST |
| | BASE BID CONTRACT | 1 | 1 | | | |
| 1 | Site Protection (Temporary Site Fencing) | 1 LS | \$3,500.00 | \$3,500.00 | \$15,000.00 | \$15,000.00 |
| 2 | Erosion & Sedimentation Controls | 1 LS | 7,500.00 | 7,500.00 | 8,500.00 | 8,500.00 |
| 3 | Site Preparation, Grading & Excavation | 1 LS | 42,300.00 | 42,300.00 | 55,000.00 | 55,000.00 |
| 4 | 500,000 Gallon Steel Multi-Column | - | | and the second s | | |
| | Elevated Water Storage Tank | (| | | | |
| | 4A) Foundation | 1 LS | 92,500.00 | 92,500.00 | 160,000.00 | 160,000.00 |
| 1.1 | 4B) Welded Steel Reservoir & Support Structure | 1 LS | 767,866.00 | 767,866.00 | 700,000.00 | 700,000.00 |
| 2 | 4C) Appurtenances & Accessories | 1 LS | 500.00 | 500.00 | 146,700.00 | 146,700.00 |
| 1 | 4D) Electrical Lighting | 1 LS | 67,000.00 | 67,000.00 | 35,000.00 | 35,000.00 |
| | 4E) Coatings & Disinfection | 1 LS | 140,000.00 | 140,000.00 | 189,500.00 | 189,500.00 |
| 5 | Yard Piping & Appurtenances | 1 LS | 133,700.00 | 133,700.00 | 95,300.00 | 95,300.00 |
| 6 | Miscellaneous Site Improvements | | | | | 1.00 |
| | (Access Road, Site Drainage, Lined Ditches, etc.) | 1 LS | 60,000.00 | 60,000.00 | 65,000.00 | 65,000.00 |
| 7 | Oak Ridge Tank Control Valve Vault Addition | 1 LS | 76,000.00 | 76,000.00 | 105,000.00 | 105,000.00 |
| 8 | Final Site Restoration & Cleanup | 1 LS | 21,800.00 | 21,800.00 | 20,000.00 | 20,000.00 |
| | TOTAL BASE BID | | · | \$1,412,666.00 | | \$1,595,000.00 |

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00 A.M. LOCAL TIME, FRIDAY, JANUARY 31, 2020 AT THE LAUREL COUNTY WATER DISTRICT NO. 2.

BY:

m James Lee Mud

2-3-2020

Date

FINAL PROJECT BUDGET LAUREL COUNTY WATER DISTRCT #2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS

JANUARY 2020

PROJECT COSTS

| DEVELOPMENT | |
|--|-------------|
| CONTRACT NO. 1 - 14-INCH RAILROAD WATER LINE ABANDONMENT | \$758,805 |
| CONTRACT NO. 2 - HOPEWELL WATER STORAGE TANK | 1,412,666 |
| TOTAL DEVELOPMENT | 2,171,471 |
| CONTINGENCY | 214,029 |
| ENGINEERING DESIGN | 144,000 |
| CONSTRUCTION INSPECTION | 87,000 |
| PRELIMINARY ENGINEERING REPORT | 10,000 |
| ENVIRONMENTAL ASSESSMENT | 7,500 |
| GEOTECHNICAL INVESTIGATION | 5,000 |
| ADMINISTRATION | 8,000 |
| LEGAL | 18,000 |
| LAND & EASEMENT ACQUISITION | 5,000 |
| INTEREST | 30,000 |
| TOTAL PROJECT COSTS | \$2,700,000 |
| PROJECT FUNDING | |
| USDA RURAL DEVELOPMENT LOAN | \$1,850,000 |
| USDA RURAL DEVELOPMENT GRANT | 500,000 |
| ADDITIONAL USDA RURAL DEVELOPMENT LOAN | 275,000 |
| ADDITIONAL USDA RURAL DEVELOPMENT GRANT | 75,000 |
| TOTAL PROJECT FUNDING | \$2,700,000 |



March 9, 2020

Mr. Roy Wayne Jenkins, Chairman Laurel County Water District No. 2 P.O. Box 2598 London, KY 40743

Re: South Laurel Water System Improvements Bid Opening Results and Recommendations

Dear Mr. Jenkins:

As a follow-up to my original letter dated February 3, 2020 outlining our recommendations relative to the above referenced project, I offer the following. As you may recall, on January 31, 2020, bids were received by the District for the construction of the project known collectively as the South Laurel Water System Improvements. Considering Contract No. 1, four (4) bids were received, with the lowest being submitted by Akins Excavating Co., Inc. of Corbin, Kentucky for \$758,805.00. Considering Contract No. 2, two (2) bids were received, with the lowest being submitted by Phoenix Fabricators & Erectors, LLC of Avon, IN for \$1,412,666.00.

As indicated in the original Final Project Budget, the total "as-bid" project cost is \$2,700,000.00. Given that the original amount of available project funding was \$2,350,000.00, the resulting budget shortfall was \$350,000.00. However, since that time additional funding in that amount has been acquired via additional loan funds from USDA Rural Development.

With adequate funding now in place, we unequivocally recommend that the District proceed with contract awards to both Akins Excavating Co., Inc. and Phoenix Fabricators & Erectors, LLC for their full bid amounts. A revised Final Project Budget based on this recommendation has been attached for your reference. This recommendation is contingent upon approval from USDA Rural Development and the Kentucky Public Service Commission.

Should you have any questions or require any additional information, please advise.

Sincerely,

m lu Mudd J

Lee Mudd, P.E. Project Engineer

/jlm

Cc: Clay McKnight - Area Specialist, USDA Rural Development Julie Anderson - State Engineer, USDA Rural Development

FINAL PROJECT BUDGET LAUREL COUNTY WATER DISTRCT #2 SOUTH LAUREL WATER SYSTEM IMPROVEMENTS

MARCH 2020

PROJECT COSTS

| DEVELOPMENT | |
|--|-------------|
| CONTRACT NO. 1 - 14-INCH RAILROAD WATER LINE ABANDONMENT | \$758,805 |
| CONTRACT NO. 2 - HOPEWELL WATER STORAGE TANK | 1,412,666 |
| TOTAL DEVELOPMENT | 2,171,471 |
| CONTINGENCY | 214,029 |
| ENGINEERING DESIGN | 144,000 |
| CONSTRUCTION INSPECTION | 87,000 |
| PRELIMINARY ENGINEERING REPORT | 10,000 |
| ENVIRONMENTAL ASSESSMENT | 7,500 |
| GEOTECHNICAL INVESTIGATION | 5,000 |
| ADMINISTRATION | 8,000 |
| LEGAL | 18,000 |
| LAND & EASEMENT ACQUISITION | 5,000 |
| INTEREST | 30,000 |
| TOTAL PROJECT COSTS | \$2,700,000 |
| PROJECT FUNDING | |
| USDA RURAL DEVELOPMENT LOAN | \$1,850,000 |
| USDA RURAL DEVELOPMENT GRANT | 500,000 |
| ADDITIONAL USDA RURAL DEVELOPMENT LOAN | 350,000 |
| TOTAL PROJECT FUNDING | \$2,700,000 |