JUN 1 9 2018

FINAL ENGINEERING REPORT PUBLIC SERVICE COMMISSION

CLIFTY CREEK WATER SYSTEM IMPROVEMENTS:

CONTRACT 1 - BIG CLIFTY AREA WATER TRANSMISSION MAIN & IMPROVEMENTS

CONTRACT 2 – DENHAM KNOB (SOMERSET) 500,000 GALLON GROUND WATER STORAGE TANK REHABILITATION

For The

WESTERN PULASKI COUNTY WATER DISTRICT

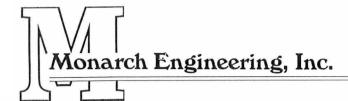
Project financed by:

U.S.D.A. RURAL DEVELOPMENT

March 28, 2018







March 28, 2018

Mr. Don Calder, Chairman Western Pulaski County Water District 2128 West Highway 80 Somerset, KY 42503

Re: Clifty Creek Water System Improvements

Dear Mr. Calder:

On March 28, 22018, bids were received by the Water District for the Clift Creek Water System Improvements. There were two contracts considered, one being the Water Transmission Main and the second, the renovation of the Denham Knob Water Storage Tank. Ten bids were submitted for the Water Transmission Main with the lowest bid from Clay Pipeline, Inc. located in Manchester, KY in the amount of \$1,647,343.00 and four bids submitted for the Denham Knob Tank with the lowest bid from Huffman Tank & Tower, Inc. located in Albany, KY in the amount of \$157,300.00. A summarized bid tabulation of all bids received is attached.

Due to the need of the water transmission main and the renovation of the Denham Knob water tank, the competitive results of the bids received and that sufficient funds are available for this project, we recommend that you consider pursuing a contract award to the two above mentioned contractors in the amount of their bid. This recommendation is contingent upon approval from the Kentucky Public Service Commission and also the Kentucky Infrastructure Authority. A final budget showing all projects costs is attached.

Should you need additional information, please advise.

Sincerely,

Deron S. Byrne, P.E.

Principal/Project Engineer

/dsb

Enclosures

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT

CONTRACT 1: BIG CLIFTY CREEK AREA

WATER TRANSMISSION MAIN & IMPROVEMENTS

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			70 Fox Hollow Road		G & W Construction 6730 Flemingsburg Morehead, KY 4035	Road
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	12-Inch HDPE DR 7 Directional Bore	425 LF	\$196.00	\$83,300.00	\$223.95	\$95,178.75
2	10-Inch HDPE DR 9 Directional Bore	300 LF	177.50	53,250.00	138.40	41,520.00
3	8-Inch Ductile Iron CL350 Water Line	5,400 LF	36.00	194,400.00	28.98	156,492.00
4	8-Inch PVC SDR-21 Water Line	40,000 LF	16.20	648,000.00	14.79	591,600.00
5	Bore & Case for 8-Inch Water Line	590 LF	127.00	74,930.00	196.62	116,005.80
6	Free Bore for 8-Inch Water Line	300 LF	50.00	15,000.00	56.62	16,986.00
7	8-Inch Gate Valve	10 EA	2,017.50	20,175.00	1,317.31	13,173.10
8	6-Inch Gate Valve	1 EA	1,670.00	1,670.00	920.35	920.35
9	3-Way Flush Hydrant Assembly	8 EA	3,835.25	30,682.00	3,435.26	27,482.08
10	Temporary Blowoff Assembly	1 EA	2,235.00	2,235.00	1,635.38	1,635.38
11	Connection	4 EA	2,544.50	10,178.00	4,544.40	18,177.60
12	400 GPM Booster Pump Station (Piney Grove)	1 LS	237,642.50	237,642.50	274,502.29	274,502.29
13	800 GPM Booster Pump Station (Office 80 KY)	1 LS	254,726.50	254,726.50	299,854.48	299,854.48
14	Denham Knob Tank Valve Vault Replace	1 LS	16,684.00	16,684.00	16,684.29	16,684.29
15	Exploration	90 HR	50.00	4,500.00	300.00	27,000.00
	TOTAL BASE BID			\$1,647,373.00		\$1,697,212.12

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00A.M. LOCAL TIME, TUESDAY, MARCH 27, 2018 AT THE WESTERN PULASKI COUNTY WATER DISTRICT.

DΥ

David Bowles

3/28 D

Project No. 1302

Page 1 of 5

Lawrenceburg, KY 40342

Phone (502) 839-1310

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BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT

CONTRACT 1: BIG CLIFTY CREEK AREA

WATER TRANSMISSION MAIN & IMPROVEMENTS

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

	•		Weddle Enterprises 25 Shane's Lane Somerset, KY 42501		Stotts Construction P.O. Box 1689 Columbia, KY 42728	
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	12-Inch HDPE DR 7 Directional Bore	425 LF	\$293.20	\$124,610.00	\$200.00	\$85,000.00
2	10-Inch HDPE DR 9 Directional Bore	300 LF	112.75	33,825.00	153.00	45,900.00
3	8-Inch Ductile Iron CL350 Water Line	5,400 LF	43.56	235,224.00	23.50	126,900.00
4	8-Inch PVC SDR-21 Water Line	40,000 LF	14.30	572,000.00	13.70	548,000.00
5	Bore & Case for 8-Inch Water Line	590 LF	157.80	93,102.00	186.00	109,740.00
6	Free Bore for 8-Inch Water Line	300 LF	36.00	10,800.00	100.00	30,000.00
7	8-Inch Gate Valve	10 EA	1,355.00	13,550.00	1,500.00	15,000.00
8	6-Inch Gate Valve	1 EA	1,035.00	1,035.00	1,100.00	1,100.00
9	3-Way Flush Hydrant Assembly	8 EA	3,568.00	28,544.00	4,200.00	33,600.00
10	Temporary Blowoff Assembly	1 EA	1,833.00	1,833.00	1,850.00	1,850.00
11	Connection	4 EA	1,527.00	6,108.00	5,000.00	20,000.00
12	400 GPM Booster Pump Station (Piney Grove)	1 LS	264,294.00	264,294.00	350,000.00	350,000.00
13	800 GPM Booster Pump Station (Office 80 KY)	1 LS	272,906.00	272,906.00	330,000.00	330,000.00
14	Denham Knob Tank Valve Vault Replace	1 LS	26,050.00	26,050.00	40,000.00	40,000.00
15	Exploration	90 HR	350.00	31,500.00	50.00	4,500.00
	TOTAL BASE BID			\$1,715,381.00		\$1,741,590.00

Page 2 of 5

Lawrenceburg, KY 40342

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BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT

CONTRACT 1: BIG CLIFTY CREEK AREA

WATER TRANSMISSION MAIN & IMPROVEMENTS

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			Flo-Line Contracting	g, LLC	Cumberland Pipelin	e, LLC
			189 Sunstar Blvd.		4129 Highway 379	
			Monticello, KY 4263	3	Russell Springs, KY	42642
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	12-Inch HDPE DR 7 Directional Bore	425 LF	\$230.00	\$97,750.00	\$224.60	\$95,455.00
2	10-Inch HDPE DR 9 Directional Bore	300 LF	150.00	45,000.00	186.50	55,950.00
3	8-Inch Ductile Iron CL350 Water Line	5,400 LF	29.50	159,300.00	25.00	135,000.00
4	8-Inch PVC SDR-21 Water Line	40,000 LF	16.60	664,000.00	16.00	640,000.00
5	Bore & Case for 8-Inch Water Line	590 LF	140.00	82,600.00	206.35	121,746.50
6	Free Bore for 8-Inch Water Line	300 LF	90.00	27,000.00	20.00	6,000.00
7	8-Inch Gate Valve	10 EA	1,250.00	12,500.00	1,069.00	10,690.00
8	6-Inch Gate Valve	1 EA	900.00	900.00	710.00	710.00
9	3-Way Flush Hydrant Assembly	8 EA	3,800.00	30,400.00	3,454.00	27,632.00
10	Temporary Blowoff Assembly	1 EA	1,800.00	1,800.00	1,595.00	1,595.00
11	Connection	4 EA	3,200.00	12,800.00	2,165.00	8,660.00
12	400 GPM Booster Pump Station (Piney Grove)	1 LS	305,000.00	305,000.00	318,305.00	318,305.00
13	800 GPM Booster Pump Station (Office 80 KY)	1 LS	320,000.00	320,000.00	339,300.00	339,300.00
14	Denham Knob Tank Valve Vault Replace	1 LS	28,000.00	28,000.00	28,336.00	28,336.00
15	Exploration	90 HR	30.00	2,700.00	75.00	6,750.00
	TOTAL BASE BID			\$1,789,750.00		\$1,796,129.50

Page 3 of 5

Lawrenceburg, KY 40342

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BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT

CONTRACT 1: BIG CLIFTY CREEK AREA

WATER TRANSMISSION MAIN & IMPROVEMENTS

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			Ford Contracting, Ir 375 Southway Drive Lancaster, KY 4044		Frederick & May Co P.O. Box 337 West Liberty, KY 41	
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	12-Inch HDPE DR 7 Directional Bore	425 LF	\$275.00	\$116,875.00	\$180.00	\$76,500.00
2	10-Inch HDPE DR 9 Directional Bore	300 LF	250.00	75,000.00	160.00	48,000.00
3	8-Inch Ductile Iron CL350 Water Line	5,400 LF	40.00	216,000.00	45.00	243,000.00
4	8-Inch PVC SDR-21 Water Line	40,000 LF	18.75	750,000.00	20.50	820,000.00
5	Bore & Case for 8-Inch Water Line	590 LF	260.00	153,400.00	200.00	118,000.00
6	Free Bore for 8-Inch Water Line	300 LF	100.00	30,000.00	35.00	10,500.00
7	8-Inch Gate Valve	10 EA	1,400.00	14,000.00	1,200.00	12,000.00
8	6-Inch Gate Valve	1 EA	1,000.00	1,000.00	850.00	850.00
9	3-Way Flush Hydrant Assembly	8 EA	4,000.00	32,000.00	4,700.00	37,600.00
10	Temporary Blowoff Assembly	1 EA	2,000.00	2,000.00	3,500.00	3,500.00
11	Connection	4 EA	2,700.00	10,800.00	3,500.00	14,000.00
12	400 GPM Booster Pump Station (Piney Grove)	1 LS	260,000.00	260,000.00	268,000.00	268,000.00
13	800 GPM Booster Pump Station (Office 80 KY)	1 LS	274,000.00	274,000.00	288,000.00	288,000.00
14	Denham Knob Tank Valve Vault Replace	1 LS	20,425.00	20,425.00	25,000.00	25,000.00
15	Exploration	90 HR	250.00	22,500.00	250.00	22,500.00
	TOTAL BASE BID			\$1,978,000.00	-	\$1,987,450.00

Page 4 of 5

BID TABULATIONS

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

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WESTERN PULASKI COUNTY WATER DISTRICT

Page 5 of 5

CONTRACT 1: BIG CLIFTY CREEK AREA

WATER TRANSMISSION MAIN & IMPROVEMENTS

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			K. Carrender Const	ruction Co., Inc.	Norris Bros. Excava	
			200 Ringgold Road Somerset, KY 42503	3	1007 Rodgers Road Crossville, TN 38572	
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	12-Inch HDPE DR 7 Directional Bore	425 LF	\$350.00	\$148,750.00	\$195.00	\$82,875.00
2	10-Inch HDPE DR 9 Directional Bore	300 LF	160.00	48,000.00	180.00	54,000.00
3	8-Inch Ductile Iron CL350 Water Line	5,400 LF	56.45	304,830.00	45.00	243,000.00
4	8-Inch PVC SDR-21 Water Line	40,000 LF	17.25	690,000.00	29.50	1,180,000.00
5	Bore & Case for 8-Inch Water Line	590 LF	255.00	150,450.00	180.00	106,200.00
6	Free Bore for 8-Inch Water Line	300 LF	140.00	42,000.00	80.00	24,000.00
7	8-Inch Gate Valve	10 EA	1,580.00	15,800.00	1,100.00	11,000.00
8	6-Inch Gate Valve	1 EA	1,065.00	1,065.00	850.00	850.00
9	3-Way Flush Hydrant Assembly	8 EA	4,450.00	35,600.00	3,400.00	27,200.00
10	Temporary Blowoff Assembly	1 EA	1,810.00	1,810.00	2,800.00	2,800.00
11	Connection	4 EA	3,700.00	14,800.00	2,500.00	10,000.00
12	400 GPM Booster Pump Station (Piney Grove)	1 LS	382,700.00	382,700.00	396,000.00	396,000.00
13	800 GPM Booster Pump Station (Office 80 KY)	1 LS	402,200.00	402,200.00	520,000.00	520,000.00
14	Denham Knob Tank Valve Vault Replace	1 LS	32,000.00	32,000.00	29,000.00	29,000.00
15	Exploration	90 HR	100.00	9,000.00	10.00	900.00
	TOTAL BASE BID			\$2,279,005.00		\$2,687,825.00

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

BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT CONTRACT 2: BIG CLIFTY CREEK AREA

DENHAM KNOB (SOMERSET) 500,000 GALLON

GROUND WATER STORAGE TANK REHABILITATION

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			210 Burkesville Road 1		Horizon Brothers Painting 1053 Kendra Lane Howell, MI 48843	
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	Miscellaneous Repairs & Modifications	1 LS	\$10,000.00	\$10,000.00	\$17,350.00	\$17,350.00
	1A Caulk interior roof lapped seams & crevice					
	along the top of the shell (Est. 420 L.F.).		2,700.00		5,000.00	
	1B Grind flush all sharp edges, weld spatter,					
	burrs, etc. (Estimated 2 hours).		200.00		100.00	
	1C Fill sharp edged pits (1/8" deep) with a					
	solventless epoxy (Estimated 25 S.F.).		500.00		1,500.00	
	1D Weld sharp edged pits (deeper than 1/8")		500.00		250.00	
	1E Install 60" tall handrails 10 ft. to each side					
	of the caged shell ladder.		2,000.00		4,000.00	
	1F Install a 42" tall handrail with a mid-rail					
	from the roof access hatch to the roof vent.		2,200.00		4,000.00	
	1G Seal the steel tank to concrete foundation					
	with DOW Corning CWS caulk.		1,000.00		1,000.00	
	1H Install new stainless steel bolts, washers,					
	and brass nuts at both shell manways.		500.00		1,000.00	
	11 Remove davit from the southwest manway.		200.00		500.00	
	TOTAL BASE BID Continued					

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00A.M. LOCAL TIME, TUESDAY, MARCH 27, 2018 AT THE WESTERN PULASKI COUNTY WATER DISTRICT.

BY:

15483

15465

Date

Page 2 of 3

556 Carlton Drive

Lawrenceburg, KY 40342

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BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT

CONTRACT 2: BIG CLIFTY CREEK AREA

DENHAM KNOB (SOMERSET) 500,000 GALLON GROUND WATER STORAGE TANK REHABILITATION

BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			Huffman Tank &Tow 210 Burkesville Roa Albany, KY 42602		Horizon Brothers Pa 1053 Kendra Lane Howell, MI 48843	ainting
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT Continued					
2	Complete Removal & Reapplication					
	Exterior Coating System	1 LS	\$72,300.00	\$72,300.00	\$75,900.00	\$75,900.00
3	Complete Removal & Reapplication					
	of Interior Coating System	1 LS	70,000.00	70,000.00	63,100.00	63,100.00
4	Application of Basic Lettering/Logo	1 LS	3,000.00	3,000.00	2,000.00	2,000.00
5	Cleaning/Disinfection/Sampling	1 LS	1,000.00	1,000.00	1,000.00	1,000.00
6	Site Clean-up & Restoration	1 LS	1,000.00	1,000.00	1,000.00	1,000.00
	TOTAL BASE BID			\$157,300.00		\$160,350.00

Lawrenceburg, KY 40342

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BID TABULATIONS

WESTERN PULASKI COUNTY WATER DISTRICT CONTRACT 2: BIG CLIFTY CREEK AREA DENHAM KNOB (SOMERSET) 500,000 GALLON

GROUND WATER STORAGE TANK REHABILITATION BID DATE: MARCH 27, 2018 @ 11:00 A.M. LOCAL TIME

PULASKI COUNTY, KENTUCKY

			C & S Quality Service 1042 Forest Hill Lawrenceburg, KY 4		Superior Industrial Ma P.O. Box 940 Harrisburg, NC 28075	
ITEM			UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION	QUANTITY	PRICE	COST	PRICE	COST
	BASE BID CONTRACT					
1	Miscellaneous Repairs & Modifications	1 LS	\$10,675.00	\$10,675.00	\$23,680.00	\$23,680.00
	1A Caulk interior roof lapped seams & crevice					
	along the top of the shell (Est. 420 L.F.).		500.00		3,800.00	
	1B Grind flush all sharp edges, weld spatter,					
	burrs, etc. (Estimated 2 hours).		100.00		250.00	
	1C Fill sharp edged pits (1/8" deep) with a					
	solventless epoxy (Estimated 25 S.F.).		475.00		980.00	
	1D Weld sharp edged pits (deeper than 1/8")		2,000.00		1,750.00	
	1E Install 60" tall handrails 10 ft. to each side					
	of the caged shell ladder.		3,000.00		3,900.00	
	1F Install a 42" tall handrail with a mid-rail					
	from the roof access hatch to the roof vent.		3,000.00		7,500.00	
	1G Seal the steel tank to concrete foundation					
	with DOW Corning CWS caulk.		500.00	and the second s	1,800.00	
	1H Install new stainless steel bolts, washers,					
	and brass nuts at both shell manways.		1,000.00		2,900.00	
	1/ Remove davit from the southwest manway.		100.00		800.00	
2	Complete Removal & Reapplication					
	Exterior Coating System	1 LS	100,225.00	100,225.00	251,610.00	251,610.00
3	Complete Removal & Reapplication					
	of Interior Coating System	1 LS	88,350.00	88,350.00	205,863.00	205,863.00
4	Application of Basic Lettering/Logo	1 LS	1,500.00	1,500.00	8,000.00	8,000.00
5	Cleaning/Disinfection/Sampling	1 LS	1,500.00	1,500.00	1,500.00	1,500.00
6	Site Clean-up & Restoration	1 LS	1,500.00	1,500.00	1,500.00	1,500.00
	TOTAL BASE BID			\$203,750.00		\$492,153.00

FINAL BUDGET BIG CLIFTY WATER SYSTEM IMPROVEMENTS - PHASE 1 WESTERN PULASKI WATER DISTRICT MARCH 2018

PROJECT COSTS

CONTRACT 1: BIG CLIFTY WATER TRANSMISSION MAIN	\$1,647,373.00
CONTRACT 2: DENHAM KNOB TANK REHABILITATION	157,300.00
CONTRACT 3: FISHING CREEK BRIDGE WL REPLACEMENT (IN DESIGN - TO BE BID)	649,500.00
SUBTOTAL	\$2,454,173.00
CONTINGENCY	245,666.52
ENGINEERING DESIGN	182,873.14
ENGINEERING INSPECTION	106,287.34
LEGAL & ADMINISTRATION	30,000.00
INTEREST	40,000.00
ENVIRONMENTAL ASSESSMENT	10,000.00
PRELIMINARY ENGINEERING REPORT	10,000.00
TOTAL PROJECT COSTS	\$3,079,000.00
PROJECT FINANCING	
USDA RURAL DEVELOPMENT LOAN	\$2,225,000.00
USDA RURAL DEVELOPMENT GRANT	854,000.00
TOTAL PROJECT FINANCING	\$3,079,000.00