



P.O. Box 1164, Richmond, Kentucky 40476
236 Boggs Lane, Suite 4

"Surveys you can count on."

Abacus Engineering &
Land Surveying, Inc.
c/o: Dwayne Wheatley, PE, LS
236 Boggs Lane, Suite 4
Richmond, KY 40475

February 18, 2020

Mayor Mike Jones
P.O. Box 129
Drakesboro, KY 42337

RE: Drakesboro Gas Line Rehabilitation

Mayor Jones:

Recently Abacus Engineering & Land Surveying, Inc. (hereinafter Abacus) conducted a review of the Drakesboro Gas Distribution System. Abacus has since identified the areas of most concern and can now make a recommendation for Phase I remediation on the portion of said gas main. The gas main along Kentucky Highway 431 (John Prine Avenue) has been found to present the largest threat to the safety of the City of Drakesboro and its citizens. Therefore, we recommend Phase I replacement be considered as beginning immediately south of Gregory's Recycling and proceed northward along Highway 431, crossing Kentucky Highway 176 (Mose Rager Boulevard), and continuing northward to the intersection of Highway 431 and Cornette Street.

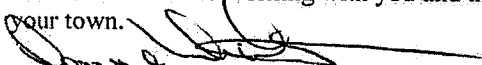
Phase I will entail replacement of approximately 5,000 lineal feet of steel gas line with four-inch (4") diameter polyethylene gas line. Of the total distance, 4,700 lineal feet will be replaced between the end points described above. The remaining 300 lineal feet of line will be placed westward along Highway 176 (Mose Rager Boulevard) beginning at the intersection of Highway 431 with Highway 176. This will end the gas line replacement and place the tie-in just prior to the United States Post Office.

We have estimated that the work involved for said remediation will involve, but not be limited to, the following materials/actions: a quantity of four, four-inch tie-ins with valves, 600 lineal feet of horizontal directional drilling to cross roadways, a quantity of six two-inch tie-ins with 250 lineal feet of line, and finally twenty service tie-ins split evenly between the long side and short side of the main line. Once the project begins in earnest, we may find that more work is required so all these estimates and the pricing shown below should be considered as preliminary and subject to change at any time during the completion of this project.

Preliminary Cost Estimate

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
1	4" DIA. POLYETHYLENE	5000	LINEAL FEET	\$47.72	\$238,596.46
2	4" DIA. TIE-IN	4	EACH	\$5,388.84	\$21,555.36
3	4" DIA. VALVE	4	EACH	\$643.60	\$2,574.40
4	4" DIA. HORZ. DIR. DRILL	600	LINEAL FEET	\$61.07	\$36,642.95
5	2" DIA. MAIN	250	LINEAL FEET	\$23.75	\$5,938.40
6	2" TDW TIE-IN	6	EACH	\$3,923.13	\$23,538.75
7	SERVICE LINE (LONG-SIDE)	27	EACH	\$2,408.00	\$65,016.00
8	SERVICE LINE (SHORT-SIDE)	19	EACH	\$1,350.80	\$25,665.20
9	CIVIL ENGINEERING DESIGN	1	EACH	\$35,000	\$35,000
10	KY DEPT OF TRANS. PERMITTING	1	EACH	\$10,000	\$10,000
11	CONSTRUCTION STAKE-OUT	1	EACH	\$15,000	\$15,000
12	CONSTRUCTION INSPECTION	1	EACH	\$30,000	\$30,000
				GRAND TOTAL	\$509,527.52

We look forward to working with you and the City of Drakesboro to bring this project to fruition and bring a sense of safety back to your town.


Sincerely, Dwayne Wheatley.