

Neely Road / Lake Kozisek Dam - Order of Magnitude Opinion of Cost

Kozisek Dam is a Safe Dams Program Category I structure adjacent to and possibly partially within Fayette County Right-of-Way for Neely Road. The project includes evaluation, design, permitting, and construction of necessary improvements and changes to Neely Road to ensure it safely passes design flows and to remove any County liability/ownership that may be associated with Kozisek Dam.

This is an Order of Magnitude Opinion of Cost and based solely on a visual inspection of the dam. No survey measurements, geotechnical evaluations, hydrologic or hydraulic analyses, material testing or other calculations were made in support of the Opinion of Cost other than the assumptions identified below.

A third-party Engineer was hired to develop the Opinion of Cost for the other two Dam projects included in the SPLOST list. The estimate for the Neely Road / Lake Kozisek Dam work was developed by County staff because of the greater uncertainty associated with the scope of this project. Several options are available for bringing this structure into compliance and the County's degree of involvement may change depending upon the final option selected.

The Kozisek Lake Dam is approximately 1,004 feet long, 26 feet in height and has a crest width of 12 feet. The drainage area to the dam is 430 acres (+/-).

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Description	Quantity	Units	Unit Price	Cost
Professional Services				
Surveying for Design				\$8,000
Geotechnical Exploration				\$5,000
Design and Preparation of Construction Documents				\$30,000
Preconstruction Notification (PCN) to USACOE				\$3,000
State Waters Buffer Encroachment Variance Application				\$1,000
Construction Administration Services ¹				\$7,000
Geotechnical Construction Monitoring ¹				\$10,000
1. Assumes two month construction monitoring				
Subtotal				\$64,000
Construction Activities				
Mobilization	1	LS	\$10,000	\$10,000
Traffic Control	1	LS	\$7,500	\$7,500
Erosion Control / Pollution Prevention	1	LS	\$8,000	\$8,000
Clearing & Grubbing	0.8	AC	\$5,000	\$4,000
Control of Water	1	LS	\$2,000	\$2,000
Concrete cross-drains under Neely Road	80	LF	\$315	\$25,200
Concrete Headwalls	2	EA	\$2,500	\$5,000
Earthwork	588	CY	\$15	\$8,820
Grassing	3872	SY	\$3	\$9,680
Rip Rap	250	TN	\$80	\$20,000
Paving	830	SY	\$60	\$49,800
Subtotal				\$150,000
General Conditions (7%)				\$10,500
Overhead & Profit (7%)				\$10,500
(Overhead & Profit reduced from 15% since County expected to perform substantial amount of work in right-of-way)				
Contingency (10%)				\$15,000
Subtotal				\$36,000
Total Project Cost				\$250,000

Assumptions:

1. Clearing limits based on 60-ft road right-of-way, less existing asphalt.
2. Cross-drain costs based on twin 6' x 6' box culverts. Actual size to be determined.
3. Earthwork assumes average depth of 2 feet, with 4:1 side slopes.
4. "Paving" include demolition, base preparation, GAB, hauling and asphalt placement, etc.