



Agenda Item Summary Sheet

Date: 2/3/26

Item #: 2

Item Title: East Dogwood Road project

Item Summary:

The project includes improvements to a portion of East Dogwood Trail that has diminished. The town engineer's design is based in part on his analysis of a geotechnical engineering report done for the project by Terracon. That report presents recommendations related to subsurface soil conditions, groundwater conditions, site preparation and earthwork and pavement design and construction.

The calculated sections for the proposed pavement areas are presented in the table below. The table is formed based on vehicle counts provided by the town. These pavement sections are recommended based on the results of Terracon's analysis in conjunction with their experience with similar soil conditions and projects as well as the minimum single lift thicknesses specific to each mix type as required by NCDOT.

Asphalt Pavement Section

Section	Hot Mix Asphalt			Aggregate Base Course ²	Subgrade
	Surface (S-9.5B or S-9.5C) ¹	Intermediate (I-19.0C) ¹	Base (B-25.0C) ¹		
Heavy Duty	1.5	2.5	3	8	Firm and Stable

1. Per NCDOT, the minimum single lift thicknesses for asphalt mix types S-9.5B, S-9.5C, I-19.0C, and B-25.0C are 1-inch, 1.5 inches, 2.5 inches, and 3 inches, respectively.
2. NCDOT ABC materials compacted to a dry density of at least 95% of the Modified Proctor maximum dry density (ASTM D 1557).

The bid period began on December 2, 2025, and concluded with a bid opening on January 9, 2026. A mandatory pre-bid conference was held at Town Hall at 10:00 am on Tuesday, December 16, 2025.

A minimum of three bids are required for contracts in the formal bid range. Three bids using unit pricing were received. Barnhill Contracting Company was the lowest bidder and bid under the engineer's estimated range

Bid Tabulation Sheet - A portion of East Dogwood Trail Reconstruction Project

1/9/2026

Contractor	Envelope #1			Envelope #2			Engineer's Estimate Range
	Proof of Contractors License	5% Bid Deposit	MB & WB Efforts	Lump Sum	Unit Price Sheet Completion	Acknowledgment of Addendums	
Barnhill Contracting Company	x	x	x	\$ 793,400.00	x	x	\$ 823,326.00 \$ 946,824.00
Fred Smith Company	x	x	x	\$ 891,234.00	x	x	
Whitehurst Sand Company	x	x	x	\$ 978,250.00	x	x	

Prepared by: Anlauf Engineering, PLLC



In the last several years the Town has attempted to accomplish as much work as possible with the annual allocation budgeted for street projects. However, there are streets in town such as East Dogwood Trail that require a more intensive approach which limits the availability of funds for other projects. Using the same unit pricing bid for the project, town staff were able to identify a cost savings of \$87,089.90 while adding a 1.5" asphalt overlay of an adjacent street (Bayberry Trail) while still accomplishing the intent of the East Dogwood project. This would include overlaying the eastern most portion of the East Dogwood Trail project with a 1.5" of asphalt overlay rather than by the same rebuild required for the worst sections of the road.

The current fiscal year budget includes \$1M for street/stormwater projects. To date, \$31,125 has been spent on engineering. If approved, the contract price would be transferred to a new line item specifically for the amended project. \$290,565 would remain for additional street/stormwater projects in the current fiscal year.

Staff Recommendation and Requested Action: Town staff recommend a motion to issue a Notice of Award to Barnhill Construction and to authorize the town manager to enter a contract in an amount of \$706,310.20