



COLLIN COUNTY

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Date: July 13, 2026

To: Commissioners Court

From: Clarence Daugherty, PE, Director of Engineering

Subject: Request for Direction Regarding a Stand-Alone Construction Project Associated with the TxDOT FM 2551 Widening Project

Over the past two decades, FM 2551 from FM 2514 to FM 2170, has been a collaborative project involving TxDOT, Collin County, and the cities of Parker, Allen and Lucas. Since approval of the schematic and environmental document in 2006, the project has progressed through design, which was funded by the County, and is now under construction by TxDOT.

During the utility relocation phase, concerns were raised by residents of the City of Lucas regarding historical flooding along Rock Ridge Road. Residents indicated that overtopping of an existing detention pond located within the City of Allen has contributed to flooding conditions affecting adjacent properties and portions of Rock Ridge Road. While this drainage concern predates the FM 2551 project, residents expressed concerns that roadway improvements could potentially increase stormwater runoff to the area, further exacerbating the existing drainage issues.

The FM 2551 project was designed in accordance with TxDOT standards and drainage requirements which included TxDOT review of all drainage related submittals. However, after receiving the concerns from downstream property owners, the County engaged our design engineer to do a more detailed analysis of the drainage contributing to the pond. Due to the complexity of the drainage patterns within the FM 2551 watershed, a more detailed hydraulic analysis of the FM 2551 and Main Street area was required. That analysis identified an estimated increase of approximately 20 cubic feet per second (cfs) being conveyed to the City of Allen detention pond as a result of the project. While the project is not the cause of the existing downstream drainage issues, the additional flow could potentially worsen existing conditions.

Although TxDOT has expressed a willingness to address the incremental increase in runoff associated with the project, several challenges have limited the feasibility of incorporating mitigation directly into the roadway project. These challenges include utility and proposed sidewalk conflicts, construction schedule and cost impacts. In addition, the detention pond requiring modification is located outside the approved right of way limits of the TxDOT project.

The City of Allen has indicated a willingness to allow improvements to the existing pond. The County's design consultant has prepared a concept to increase the pond's storage capacity through dredging, which would offset the additional runoff attributed to the FM 2551 project.

Staff is requesting Commissioners Court consideration to pursue a stand-alone construction project to implement these pond improvements. The proposed work would be limited to mitigating the incremental runoff associated with the FM 2551 project and would not resolve the broader, long-standing drainage issues experienced within the area.

The estimated construction cost is \$1,000,000 and bond funds are available.

Action Recommended: It is recommended that the Commissioners Court consider pursuing a stand-alone construction project to implement pond improvements to mitigate incremental runoff associated with the FM 2551 project.