



ENGINEERING SERVICES

To: Mayor and Town Council

From: Hulon T. Webb Jr., P.E., Director of Engineering Services

**Through: Mario Canizares, Town Manager
Chuck Ewings, Assistant Town Manager**

**Re: Professional Engineering Services Agreement – Lee Engineering
Traffic Signal: Frontier Parkway at Dallas North Tollway**

Town Council Meeting – October 24, 2023

Strategic Visioning Priority: 3. Commercial Corridors are ready for Development

Agenda Item:

Consider and act upon authorizing the Town Manager to execute a Professional Engineering Services Agreement between Lee Engineering, LLC, and the Town of Prosper, Texas, related to the design and modification of a Traffic Signal at Dallas North Tollway and Frontier Parkway.

Description of Agenda Item:

The North Texas Tollway Authority (NTTA) will begin construction of the main lanes of the Dallas North Tollway from US 380 north through Frontier Parkway in March/April of 2024. The proposed NTTA improvements will require the design of the ultimate traffic signal configuration at Dallas North Tollway (DNT) and Frontier Parkway and the temporary relocation and modification of the existing span wire signals.

The services related to this agreement are for the design of the ultimate traffic signal at the intersection DNT and Frontier Parkway and modifications to the existing signals. The traffic signal design improvements include mast arm pole assemblies and foundations, vehicle detection, pull boxes, underground conduits and cables, mast arm-mounted signs, and pedestrian signals designed for APS (Audible Pedestrian Signals) readiness. In addition, Lee Engineering will also design modifications needed for the existing signals to be relocated for the construction of the DNT main lanes and associated U-turn lanes.

The Town is currently working with the City of Celina on the design of Frontier Parkway west of the DNT intersection to match the ultimate expansion of the intersection under the main lanes of the DNT being constructed with the tollway project. It is the intent of both municipalities to pursue funding for the Frontier Parkway pavement improvements west of the DNT intersection in order to complete construction in conjunction with the tollway project.

Budget Impact:

The design cost for the ultimate traffic signals at the intersection of DNT and Frontier Parkway is \$60,500, and the cost for the relocation of the existing signals is \$21,000, for a total of \$81,500. The project budget for design, in the amount of \$65,000, is budgeted in Account No. 750-5410-00-2317-TR. The remaining \$16,500 will be allocated to this project from unallocated project savings.

Legal Obligations and Review:

Terrence Welch of Brown & Hofmeister, L.L.P., has approved the attached documents as to form and legality.

Attached Documents:

1. Professional Engineering Services Agreement
2. Location Map

Town Staff Recommendation:

Town staff recommends that the Town Council authorize the Town Manager to execute a Professional Engineering Services Agreement between Lee Engineering, LLC, and the Town of Prosper, Texas, related to the design and modification of a Traffic Signal at Dallas North Tollway and Frontier Parkway.

Proposed Motion:

I move to authorize the Town Manager to execute a Professional Engineering Services Agreement between Lee Engineering, LLC, and the Town of Prosper, Texas, related to the design and modification of a Traffic Signal at Dallas North Tollway and Frontier Parkway.