



Memorandum

To: Bridell Miers, PE

From: Lexcen Grosshuesch, PE

Date: January 29, 2024

Subject: Collin County Outer Loop Segment 3 (FM 2478 to US 75), Supplemental Scope and Fee for additional design services – RFI 001 Survey Control

Ms. Miers,

Please find our proposed supplemental fee for the additional work to respond to RFI 001 – Survey Control. The RFI states control points CCOL 3A, CCOL 3B, and CP 102 were not able to be located in the field by RPMx Construction. Additionally, RPMx requested control points established near the west end of each bridge. The scope includes the following:

- Establish Horizontal and Vertical Control Monuments
- CAD work for updated/new Survey Control Data plan sheets

The fee for the additional scope is **\$24,326.00**.

We look forward to continuing our work on this project. If we can assist in any other way to process this supplement or add to the original contract, we are glad to help.

Sincerely,

Lexcen Grosshuesch, PE
Project Manager

Attachments: Exhibit A – Scope of Services
Exhibit B – Fee Summary

EXHIBIT "A"
SCOPE OF SERVICE
Collin County Outer Loop Segment 3C
Access Road Construction Services
Custer Road (FM 2478) to U.S. 75

SCOPE OF SERVICES AND RESPONSIBILITIES

Purpose

The Scope of Work to be performed by BGE, Inc., here and after referred to as the ENGINEER, under this contract will consist of establishing Horizontal and Vertical Control Monuments for the Collin County Outer Loop Access Road along Segment 3C from Custer Road (FM 2478) to U.S. 75, here and after referred to as the PROJECT, for Collin County, here and after referred to as the OWNER.

SURVEY

A. Survey

- a. The ENGINEER will establish Horizontal and Vertical Control Monuments, consisting of a 5/8" capped iron rod set in concrete, or an existing monolithic concrete structure. The monuments shall be set outside the future construction limits, when possible. Horizontal and Vertical values will be provided for each monument in Grid and Surface horizontal coordinates. The Surface Adjustment Factor utilized for coordinate transformation shall also be supplied to the OWNER. GPS RTK will be utilized to establish the horizontal coordinates vertical values. This work shall meet or exceed the accuracies for Secondary Control Points (Level 3) in the TxDOT Survey Manual, March 2023.
- b. Horizontal coordinate values shall be based on the North American Datum of 1983 (NAD83), Texas Coordinate System of 1983 (State Plane Coordinates), applicable to the zone or zones in which the work is performed, with values in U.S. Survey Feet, will be used as the basis for all horizontal coordinates derived, unless otherwise directed by the OWNER.
- c. Vertical datum will be based on the North American Vertical Datum 88 (NAVD88) with elevations in U.S. Survey Feet and will be used as the basis for vertical control, unless otherwise directed by the OWNER.

Deliverables:

1. Control Monument Data Sheets
2. Updated SURVEY CONTROL DATA plan sheets

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Exhibit B – Fee Summary
Method of Payment: Lump Sum

Colin County Outer Loop Segment 3C

Prime Provider: BGE, Inc.

Project 2020-049

Project Limits: FM 2478 (Custer Rd) to US 75

FEE ESTIMATE - SUMMARY	
Function Code	Labor Cost
SURVEY	\$ 24,326.00
Lump Sum Total	\$ 24,326.00