

June 26, 2024

REVISED PROPOSAL

Eric Oscarson
Director of Public Works
City of Burleson, Texas
725 SE John Jones Drive
Burleson, Texas 76028-4296

Re: ITS GIS Web Application - Supporting the City of Burleson's
ITS (Intelligent Traffic System)
LJA Proposal No. 23-18009

Dear Mr. Oscarson:

LJA Engineering, Inc. (LJA) is pleased to submit this proposal to assist in the traffic operations for the City of Burleson, specifically providing a web-based GIS application to support the city's Intelligent Traffic System (ITS) initiative. Based on previous discussions we propose the following Scope of Services and estimated corresponding fees in accordance with the anticipated Professional Services Agreement from the City of Burleson.

LJA has estimated a Time and Material fee of \$150,000.00.

Scope of Services

LJA will provide the City of Burleson a web-based GIS application supporting the implementation of the city's Intelligent Traffic System (ITS), this deliverable is further defined as the "ITS GIS Web Application".

LJA has provided five categories of development.

1) Asset Group or Data Provider

An asset group or data provider is specified as a single source of information whether it be derived from a physical asset (traffic signals / controllers, traffic cameras or dynamic message signs) or provided by a second party such as regional transit authorities, Google traffic or Waze.

Below, LJA has identified the typical information required in our development process when working against an asset or specific data provider. These initial findings identify how the source data is collected, presented, and made available to LJA for LJA to develop against and include in the ITS GIS Web Application.

LJA will work with the asset or data provider's service / support team to establish the capabilities in collecting and providing such data.

LJA anticipates \$5,000 per asset group or data provider to establish data practices and availability. In our costs we have budgeted six unique asset types or data providers.

Asset Group

- Equipment
 - Product Make / Model
 - Provider Contact
 - Service or Account Representative
 - Product capabilities
 - Resulting data format
- Data
 - Format options
 - Delivery options
 - Update schedule / frequency
 - Availability and constraints

Data Provider

- Subscription or account requirements
 - If required LJA will work with the City of Burleson to set up and establish these accounts
- Format options
- Update schedule / frequency
- Allowable uses / restrictions
- Available support services

2) Event Creation and Management

An event is specified as a specific occurrence impacting traffic and / or travel conditions. These events can be derived or created based on data collected through the asset or data providers (identified above) or created by city staff using tools developed within the ITS GIS Web Application.

Event types typically include Traffic Accidents, Traffic Hazards, Road Construction, Lane Closures, and Special Events (traffic control).

Event Created based on Asset or Data Provider

Based on the findings from above item #1 “Asset Group or Data Provider”, LJA will work closely with city staff to identify the reliability of creating events based on the data sourced from both the “physical assets” and the “data providers”.

Working with the city, LJA will develop tools within the ITS GIS Web Application to create and manage event data. Tool functionality will include viewing the source data, validating occurrences, and publishing event information with expiration parameters.

Staff Event Management Tools

LJA will develop GIS tools, within the ITS GIS Web Application, for city staff to create and manage city sourced event information and staff input.

Each event type will include tools for staff to create and manage the full event cycle including dates (start, finish, expiration), descriptions and notification procedures. These management tools will be made available within the ITS GIS Web Application under city staff permissions.

LJA anticipates \$40,000 to identify, develop and deploy event procedures. In our costs we have budgeted up to seven unique event types.

3) Notifications (Public and Staff)

A notification is specified as the occurrence of providing information to a defined individual or group of users. Notifications enable the public to be better informed of current and future traffic events.

Working with the city, LJA will verify existing and anticipated citizen notification practices such as emails, texts or push notifications. LJA will build the notification process around existing practices and readily available city procedures.

LJA will build within the ITS GIS Web Application a notification environment for citizens and residents to “sign up” for notifications. Based the information derived from the “events”, notification opportunities will be made available to the user such as event type, time domains, and location specific notifications.

LJA anticipates \$30,000 to identify, develop and deploy notification procedures.

4) Application Development

Application Development effort encompasses the full development and deployment of the application build including user experience, displayed data, user tools, user defined roles and available access and permissions within the ITS GIS Web Application based on user accounts and profiles.

Application Development - Data Items

- Street / Road Network
- Aerial and Non-Aerial Base
- Mapping of Physical Assets
 - Displaying data collected by physical asset
 - Video or still photos from traffic cameras
 - Dynamic Message Signs - Message
- Mapping of supplemental data
 - Google Traffic
 - Waze
 - Other traffic sources
- Mapping of Event Data
 - Traffic accidents
 - Special events
 - Existing closures
 - Traffic Hazards

Application Development - Users and Permissions

- Public Account Controls
 - Create and manage
 - name and contact information
 - notification requests
 - Allowable application interaction
- City Staff Account Controls
 - Editing permissions
 - Account permissions
 - Event creation
 - Notification controls

Application Development – Events and Notifications (Public)

- Public Accounts – Selection process for Notification
 - Event Type
 - Days of week, time of day
 - Notification Process

Application Development – Events and Notifications (City Staff)

- Event and Notification Management
 - Event /Type
 - Days of week, time of day
 - Notification Process

LJA anticipates \$40,000 of Application Development effort.

5) Deployment Infrastructure

LJA understands the city requires the ITS GIS Web Application to reside within the City of Burleson's IT infrastructure. LJA will work closely with city IT staff to determine the appropriate procedures for deploying the application within the city's IT environment. LJA does anticipate the need to utilize off-site resources. If off-site resources are ultimately necessary, based on current IT capabilities, LJA will provide documentation for reasoning and deployment processes.

LJA anticipates \$10,000 of Deployment effort.

Compensation

LJA will bill the City of Burleson on a Time and Material (T&M) basis.

LJA estimates a Time and Material fee of \$150,000.00 to provide the above services.

If applicable to the work performed, for Texas state and local tax purposes, the GIS Services provided by LJA shall be considered to be taxable data processing services as defined under applicable law, Texas Administrative Code Rule §3.330. Texas state and applicable local sales tax will be charged on 80% of the monthly bill for the GIS services; 20% of the total amount charged for data processing services is exempted from tax.

LJA appreciates the opportunity to submit this GIS proposal and looks forward to extending our working relationship. Your signature below will be sufficient authorization to commence work. If you have any questions, please call me at 713.953.5032.

Sincerely,



George Culver
Director of GIS

GC/em

ACCEPTED BY CITY OF BURLESON

By: _____

Name: _____

Title: _____

Date: _____