



**HIDALGO COUNTY  
COMMISSIONER PRECINCT No. 2:**

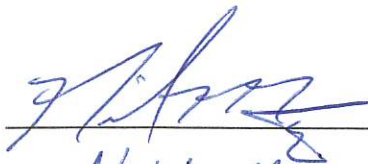
BY: \_\_\_\_\_

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on \_\_\_\_\_ as indicated below and effective as of \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**THE ENGINEER:**  
B2Z ENGINEERING, LLC

**THE OWNER:**  
HIDALGO COUNTY

  
\_\_\_\_\_

By: Nicholas Muñoz  
Print Name

\_\_\_\_\_

By: Richard F. Cortez, County Judge

**ATTEST:**

\_\_\_\_\_  
By: Arturo Guajardo Jr., County Clerk

EXHIBIT "A"  
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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**PROJECT DESCRIPTION**

The services designated herein as "Services provided by the ENGINEER" shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: Hidalgo County

PROJECT/DESCRIPTION: WA #1 – Rancho Blanco Rd  
(Traffic Warrant Analysis &  
TxDOT Access Permit Coordination)  
On-Call Contract #C-20-100-03-10

LENGTH: N/A

HIGHWAY: Rancho Blanco Road

LIMITS: At Intersection with Jackson Road

**PROJECT CLASSIFICATION**

(Place an "X" in only one Project Classification)

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Drainage Upgrade
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean B2Z Engineering.

COUNTY shall mean Hidalgo County.

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# EXHIBIT "A"

## SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

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### SECTION 2 – PRELIMINARY DESIGN VALUES (Function Code 102)

#### **Preliminary Design Values**

*The ENGINEER will work with the Owner to establish basic design concepts, project controls and general scope of Projects.*

- Prepare & Coordinate TxDOT Access Permit  
The Engineer will prepare and submit the access permit to TxDOT for the connection of Rancho Blanco Road to Jackson Road. The Engineer will coordinate the Permit approval through TxDOT review and execution.

#### **Meetings, Coordination & Support for Project Development**

*The ENGINEER shall provide coordination services and shall assist in meetings and workshops with TxDOT, Hidalgo County, Hidalgo County Drainage District No. 1 and Hidalgo County Irrigation Districts, and all other affected parties. The ENGINEER shall serve as representative for the Owner in coordination items. The ENGINEER shall coordinate with the Owner's staff on all Project related items.*

### SECTION 9 - SIGNING, MARKINGS AND SIGNALIZATION (Function Code 162)

#### **5. Traffic Signals**

- Traffic Signal Warrant Analysis (TSWA) Coordination
  - a. The Engineer will coordinate with the LPA as necessary to ensure the successful submittal of the TSWA.
- Traffic Data Collection
  - b. The Engineer will provide 24-hour ADT traffic data for the TSWA.
- Traffic Signal Warrant Analysis
  - c. The Engineer will prepare the TSWA in accordance with local/state regulations and include the following:
    - i. Site Visit(s) & Photographs
    - ii. Development of Traffic Exhibits
    - iii. Analyzing MUTCD Traffic Signal Warrants
    - iv. Conclusions, Recommendations, and Final Report

### SECTION 14 - ADDITIONAL RESPONSIBILITIES

#### **Meetings**

Meetings will be held with the FHWA, State Officials, local governments, property owners, utility owners, railroad companies, other consulting firms, etc., as needed or required by the COUNTY. The ENGINEER shall coordinate through the COUNTY for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

#### **Specifications, Special Provisions, Special Specifications**

Use the State's standard specifications or previously approved special provisions and/or special specifications. If a special provision and/or special specification is developed for this project, it shall be in the State's format and incorporate references to approved State test procedures.

#### **Project Manager/Engineer Communication**

The ENGINEER shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the COUNTY's Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the COUNTY.

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**EXHIBIT "A"**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER**

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Engineering documents produced for the department's engineering projects shall be signed, sealed and dated or CADD sealed in accordance with Administrative Order No. 5-89 and Administrative Circular No. 26-91.

**Design Responsibilities**

The ENGINEER is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The ENGINEER's responsibility for all questions arising from design errors and/or omissions will be determined by the COUNTY and all decisions shall be final and binding. This would include, but not necessarily be limited to:

1. All design errors and/or omissions resulting in additional design work to correct the errors and/or omissions.
2. Preparation of design documents and detail drawings necessary for a field change due to design errors and/or omissions.
3. Revision of original tracings to the extent required for a field change due to design errors and/or omissions.

The ENGINEER shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of the work by the COUNTY will not relieve the ENGINEER of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

**Document and Information Exchange**

Data, Plan Sheets, General Notes and/or Specifications provided to the COUNTY shall be furnished on 8GB USB flash drives. Each 8 GB flash drive shall have a file titled Table of Contents. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

General Notes and specifications shall be provided in MS Office 2007 format. Plan sheets shall be provided in Microstation DGN or GEOPAK GPK format. PDF copies of plan sheets shall also be provided.

Two copies of the documentation shall be provided to the COUNTY.

If required, the ENGINEER shall provide to the COUNTY, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the COUNTY's computer system.

CD Tape Required (YES or NO): YES

**Proposal Time**

The time indicated in the proposal and the contract shall include time necessary for reviews, approval, etc.

**Office Location**

The ENGINEER will perform the services to be provided under this agreement out of their office or offices listed below:

<u>Service</u>	<u>Office Location</u>
All Services	Mission Office

The work effort will be managed out of the \_\_\_\_\_ Mission \_\_\_\_\_  
(City)

office located at 900 S Stewart Road, Ste 4 \_\_\_\_\_,  
(Address)

Mission \_\_\_\_\_, Texas \_\_\_\_\_.  
(City) (State)

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**EXHIBIT "B"**  
**FEE PROPOSAL**  
**Hidalgo County Precinct #2**  
**On-Call Contract #C-20-100-03-10**  
**Work Authorization No. 1**

<i>Hidalgo County Precinct #2</i> <i>WA #1 ~ Rancho Blanco Rd</i>			MANHOURS				Total Line Item Cost
			Project Manager	Senior Engineer	Engineering Technician	Admin/Clerical	
<b>TASKS</b>							
1	Management & Coordination of SUBs for Warrant Analysis	6	7	4	7	24	\$3,726.59
2	Warrant Analysis at Intesection of Rancho Blanco Rd & Jackson Rd	See Detailed Proposal from Legacy Engineering Group					\$18,000.00
3	TxDOT Permit Coordination and Processing	10	16	4	16	46	\$7,218.10
		<b>16</b>	<b>23</b>	<b>8</b>	<b>23</b>	<b>70</b>	
<b>Labor Hours</b>			<b>16</b>	<b>23</b>	<b>8</b>	<b>23</b>	<b>70</b>
Hourly Base Rates			\$ 68.00	\$ 62.00	\$ 24.00	\$ 20.00	
Contract Rate FY2020			\$ 235.07	\$ 214.33	\$ 82.97	\$ 69.14	
<b>Total Labor Costs</b>			<b>\$ 3,761.12</b>	<b>\$ 4,929.59</b>	<b>\$ 663.76</b>	<b>\$ 1,590.22</b>	<b>\$28,944.69</b>

Direct Expenses

B2Z Engineering Total Cost

**\$ 28,944.69**



March 2, 2020

Nicholus Muñoz, RPC  
Vice President  
B2Z Engineering, LLC  
900 S. Stewart Rd. Suite 4  
Mission, TX 78572

Sub: FM 2061 & Rancho Blanco Rd Intersection  
Proposal for Traffic Signal Warrant Analysis & Design

Dear Mr. Muñoz:

Legacy Engineering Group, PLLC (LEG) appreciates the opportunity to submit this proposal to provide Professional Engineering Services to B2Z Engineering (the Client) on the subject project. Our anticipated Scope of Services included:

- |   |                    |
|---|--------------------|
| <b>I. TRAFFIC SIGNAL WARRANT ANALYSIS (TSWA) COORDINATION</b>   | <b>\$1,000.00</b>  |
| LEG will coordinate with the Client as necessary to ensure the successful submittal of the TSWA.  |                    |
| <b>II. TRAFFIC DATA COLLECTION</b>  | <b>\$1,500.00</b>  |
| LEG will provide 24-hour ADT traffic data for the TSWA.   |                    |
| <b>III. TRAFFIC SIGNAL WARRANT ANALYSIS</b>   | <b>\$3,000.00</b>  |
| A TSWA will be prepared in accordance with local/regional regulations and include the following:  |                    |
| <ul style="list-style-type: none"><li>✓ <i>Site Visit(s) &amp; Photographs</i></li><li>✓ <i>Development of Traffic Exhibits</i></li><li>✓ <i>Analyzing Nine MUTCD Traffic Signal Warrants</i></li><li>✓ <i>Conclusions, Recommendations, and Final Report</i></li></ul>   |                    |
| <b>IV. TRAFFIC SIGNAL DESIGN &amp; COORDINATION</b>   | <b>\$12,500.00</b> |
| A traffic signal design will be prepared in accordance with local/regional regulations. The anticipated scope of services will include the following:   |                    |
| <ul style="list-style-type: none"><li>✓ <i>Contract Administration &amp; Invoicing</i></li><li>✓ <i>Project Management and Coordination</i></li><li>✓ <i>Submittal Preparations (Draft / Final)</i></li><li>✓ <i>Prepare Existing Layout of Study Area (Survey to be Provided by Client)</i></li><li>✓ <i>Prepare Proposed Traffic Signal Layouts in Accordance with MUTCD</i></li><li>✓ <i>Develop Conductor Schedule, Electrical Details, and Summary of Quantities</i></li><li>✓ <i>Compile Applicable Traffic Signal Standards</i></li><li>✓ <i>Prepare General Cost Estimate</i></li><li>✓ <i>QA/QC for Draft/Final Submittals</i></li></ul> |                    |

**TOTAL: \$18,000.00**