

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

**FIFTH AMENDMENT TO AGREEMENT FOR
PROFESSIONAL ENGINEERING SERVICES**

THIS FIFTH AMENDMENT, is made and entered into by and between Fort Bend County (hereinafter “County”), a body corporate and politic under the laws of the State of Texas, and Zarinkelk Engineering Services, Inc., (hereinafter “Contractor”), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services on February 24, 2015, (hereinafter “Agreement”) pursuant to SOQ 14-025, as amended by documents dated August 2, 2016 (hereinafter “Amendment”), December 18, 2018 (hereinafter “Second Amendment”), August 27, 2019 (hereinafter “Third Amendment”), and January 5, 2021 (hereinafter “Fourth Amendment”); and

WHEREAS, the parties desire to further amend the Agreement for additional services to be provided and increase the total Maximum Compensation for the completion of such additional services.

NOW, THEREFORE, the parties do mutually agree as follows:

1. County shall pay Contractor an additional thirty-two thousand one hundred eighty dollars and 00/100 (\$32,180.00) to perform the additional services as described in Contractor’s proposal dated August 2, 2021 attached hereto as Exhibit “A” and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for Services rendered is hereby increased to an amount not to exceed one million three hundred sixty-nine thousand one hundred fourteen dollars and 50/100 (\$1,369,114.50), authorized as follows:
 - \$740,000.00 under the Agreement;
 - \$10,750.00 under the Amendment;
 - \$5,682.50 under the Second Amendment;
 - \$331,543.00 under the Third Amendment;
 - \$248,959.00 under the Fourth Amendment; and
 - \$32,180.00 under this Fifth Amendment.

3. In no case shall the amount paid by County for all Services under the Agreement and any subsequent amendment exceed the Maximum Compensation without an agreement executed by the parties.
4. BY ACCEPTANCE OF AGREEMENT, CONTRACTOR ACKNOWLEDGES THAT THE COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

Except as provided herein, all terms and conditions of the Agreement and the subsequent amendments shall remain unchanged.

FORT BEND COUNTY

ZARINKELK ENGINEERING SERVICES, INC

 KP George, County Judge


 Authorized Agent – Signature

 Date

Giti Zarinkelk
 Authorized Agent – Printed Name

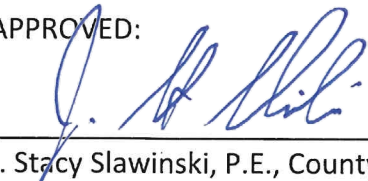
ATTEST:

 President
 Title

 Laura Richard, County Clerk

 August 27, 2021
 Date

APPROVED:



 J. Stacy Slawinski, P.E., County Engineer

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$_____ to accomplish and pay the obligation of Fort Bend County under this contract.

 Robert Ed Sturdivant, County Auditor

EXHIBIT A



617 Caroline Street
Houston, Texas 77002
Phone 832-242-2426
Fax 832-242-2445

August 2, 2021

Stacy Slawinski, P.E.
County Engineer
301 Jackson St., 4th Floor
Richmond, TX 77469

Attn: David Balmos, P.E., Program Manager

Project: Chimney Rock - Project 13203

RE: Project 13203 Chimney Rock Road; Additional Authorization

Dear Mr. Slawinski:

This proposal is responding to a late request from the Gulf Coast Water Authority for the County to raise the bridge over the American Canal and additional 3 feet and the County's request for additional services during construction. The attached emails authorize survey services to reset control for construction and to revise the signal design at FM 2234 as requested by TXDOT. Our proposed fee including sub consultant fees and management fees is \$32,180.00. Following is the fee breakdown:

	<u>Fee</u>
American Canal bridge	\$9,870.00
Structural Design	\$5,800.00
Reestablish Survey Control	\$3,160.00
Signal Redesign at FM 2234	\$11,310.00
Sub Consultant Coordination	<u>\$2,040.00</u>
Total	\$32,180.00

Please call me at 832-242-2426 if you have any questions. We look forward to working with RPS Group and Fort Bend County on this project.

Sincerely,

A handwritten signature in blue ink that reads "Giti Zarinkelk".

Giti Zarinkelk, P.E.

Chimney Rock Road from FM2234 to Rosa Parks Elementary School
Fort Bend Mobility Bond 2013; Project Number 13203

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
ITEM A (SUB CONSULTANT SERVICES)										
FM 2234 SIGNAL REDESIGN										
SIGNAL REDESIGN										\$ 11,310.00
TOTAL ITEM A										\$ 11,310.00
ITEM B (SUB CONSULTANT SERVICES)										
REESTABLISH SURVEY CONTROL										
REESTABLISH SURVEY CONTROL										\$ 3,160.00
TOTAL ITEM B										\$ 3,160.00
ITEM C (SUB CONSULTANT SERVICES)										
BRIDGE DESIGN PLANS										
BRIDGE DESIGN PLANS										\$ 5,800.00
TOTAL ITEM C										\$ 5,800.00
ITEM D (BASIC SERVICES PHASE II)										
TYPICAL SECTIONS & CROSS SECTIONS										
TYPICAL SECTIONS & CROSS SECTIONS			1		2		4			
PROJECT MANUAL & BID FORM			1		2		4	1	2	
QUANTITIES & ESTIMATES				1		4				
PLAN AND PROFILES			1	4		1	24			
RETAINING WALLS				2		1	12			
SUB CONSULTANT COORDINATION				4					1	
HOURS SUB-TOTALS	0	8	14	0	30	2	40	1	3	98
LABOR RATE PER HOUR	\$85.00	\$70.00	\$60.00	\$50.00	\$35.00	\$40.00	\$33.00	\$60.00	\$20.00	
DIRECT LABOR COSTS	\$0.00	\$560.00	\$840.00	\$0.00	\$1,050.00	\$80.00	\$1,320.00	\$60.00	\$60.00	\$ 3,970.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	\$ 27.00
TOTAL LABOR COSTS	\$0.00	\$1,680.00	\$2,520.00	\$0.00	\$3,150.00	\$240.00	\$3,960.00	\$180.00	\$180.00	\$ 11,910.00
TOTAL ITEM D										\$ 11,910.00
PROJECT TOTALS										
SUB CONSULTANTS										\$ 20,270.00
FINAL DESIGN										\$ 11,910.00
TOTAL ALL SERVICES										\$ 32,180.00



GC Engineering, Inc.

2505 Park Avenue, Pearland, Texas 77581
Phone: (281) 412-7008, Fax: (281) 412-4623
www.gc-engineering.com

February 26, 2021

Mr. Michael J. Bagstad, P. E.
Zarinkelk Engineering Services, Inc.
617 Caroline Street
Houston, Texas 77002

**Re: Amendment 2-Proposal for Professional Engineering Services
Design of Bridge Structures for Proposed Chimney Rock Road over American
Canal and Mustang Bayou, Fort Bend County, Texas
GCE Project No: C-0789**

Dear Mr. Bagstad:

Based on the discussions with Zarinkelk Engineering Services, Inc. (Client), GC Engineering, Inc (GCE) is pleased to submit this Amendment 2 for the above referenced project representing the additional work requested by the Client.

Revisions to Construction Plan Sheets:

The proposed two bridge structures on proposed Chimney Rock Road over American Canal will be elevated to provide 7.5-foot minimum vertical clearance from the American Canal flowline to the lowest bridge girder, as shown in the attached markup plans. GCE's scope of work shall include the following:

- Review Roadway plan and profile provided by the Client.
- Update Bridge proposed grade line (PGL).
- Update Bridge design calculations including the following:
 - Update Drill Shaft depth according to the project's Geotechnical report prepared by Geotest Engineering Inc, dated November 06, 2017.
 - Update Top of Cap elevations according to the revised Bridge PGL.
- Update riprap limits under bridge structure.
- Update quantities, and Engineer's construction cost estimation.
- Update construction plans including the following:
 - Bridge Layout (two sheets).
 - Summary of Bridge Quantities & Bearing Seat Elevations (two sheets).
- Submit signed and sealed revised plan sheets and Engineer's construction cost estimate.
- Address one set of review comments.

PROJECT COST

The work described in the above will be performed at an estimated lump sum fixed cost of **\$5,800.00**.



Assumptions

The scope of services presented herein is based on the following assumptions:

1. The Client will provide revised roadway plan and profile including the proposed limits of concrete riprap and retaining wall around the bridge structure. GCE will reference the roadway plan drawing to the Bridge Layout.
2. The updated roadway profile shall maintain the same grades at bridge approaches, and within bridge limits.
3. The roadway horizontal and vertical alignment and geometry shall remain the same at the bridge approaches and bridge limits except raising the vertical profile by a constant distance.

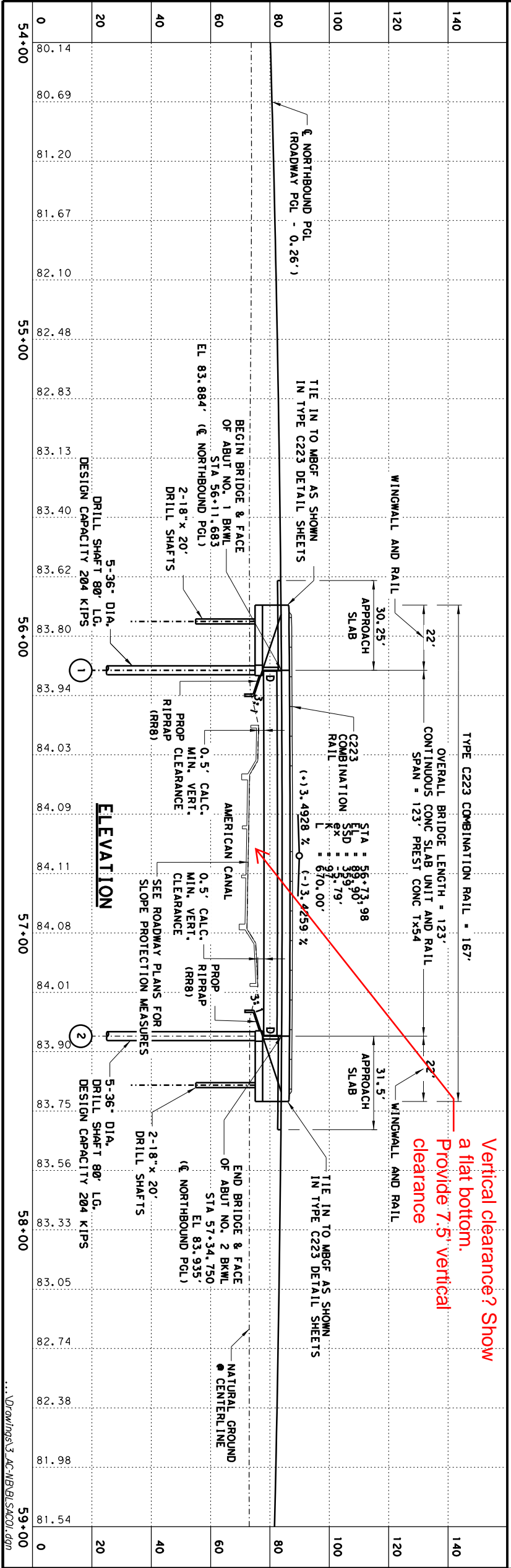
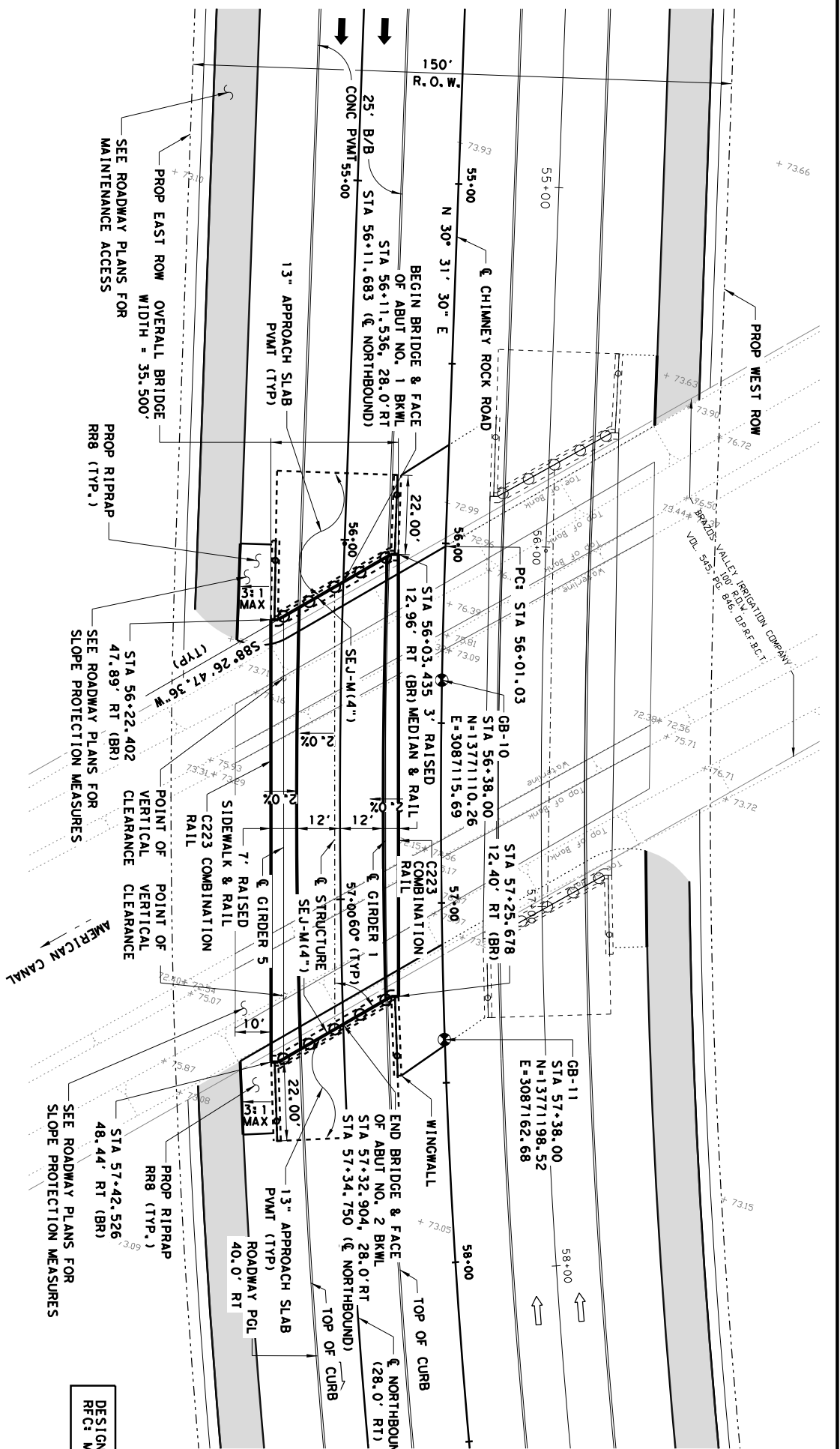
We appreciate the opportunity to be of service to you and look forward to working on this important project. If you have any questions or need more information, please contact me at (281) 412-7008 Ext. 123.

Sincerely,
GC ENGINEERING, INC.



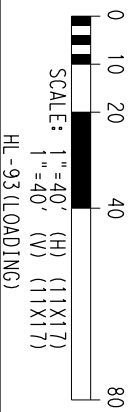
Bharath Devineni, P.E.
Project Manager





- GENERAL NOTES:**
- DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION (2017) AND CURRENT INTERIMS FOR HL93 LOADING.
 - BEAM END CONDITIONS:
 D - DENOTES DOWEL AT EXTERIOR BEAMS.
 BLANK - DENOTES NO DOWEL.
 - DENOTES SOIL BORING LOCATION. FOR BORING LOG INFORMATION, SEE "BORING LOG" SHEETS.
 - LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION. SEE BRIDGE TYPICAL SECTION SHEET FOR DETAILS OF BRIDGE SECTION.
 - SEE BENT DETAIL SHEETS FOR COLUMN HEIGHTS.
 - STATIONS AND ELEVATIONS SHOWN SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY AND/OR CORRECT ALL GRADES, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF ANY BRIDGE ELEMENT. MODIFICATIONS OR FIELD ADJUSTMENTS ARE TO BE APPROVED BY THE ENGINEER.
 - STATIONS AND OFFSETS ARE FROM CHIMNEY ROCK ROAD CENTERLINE UNLESS SHOWN OTHERWISE.
 - ALL DIMENSIONS ARE FROM CENTER LINE OF STRUCTURE UNLESS OTHERWISE SPECIFIED.
 - REFER TO ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY AND DITCH DETAILS.
 - BRIDGE PCL = ROADWAY PCL - 0.26'. THE PROFILE INFORMATION SHOWN IN THIS SHEET IS BASED OFF & NORTHBOUND AT MIDDLE OF TRAVEL LANES (28' RT').

DESIGN SPEED: 45 MPH
 RFC: MAJOR THROUGHFARE



NO.	DATE	REVISION	APPROVED

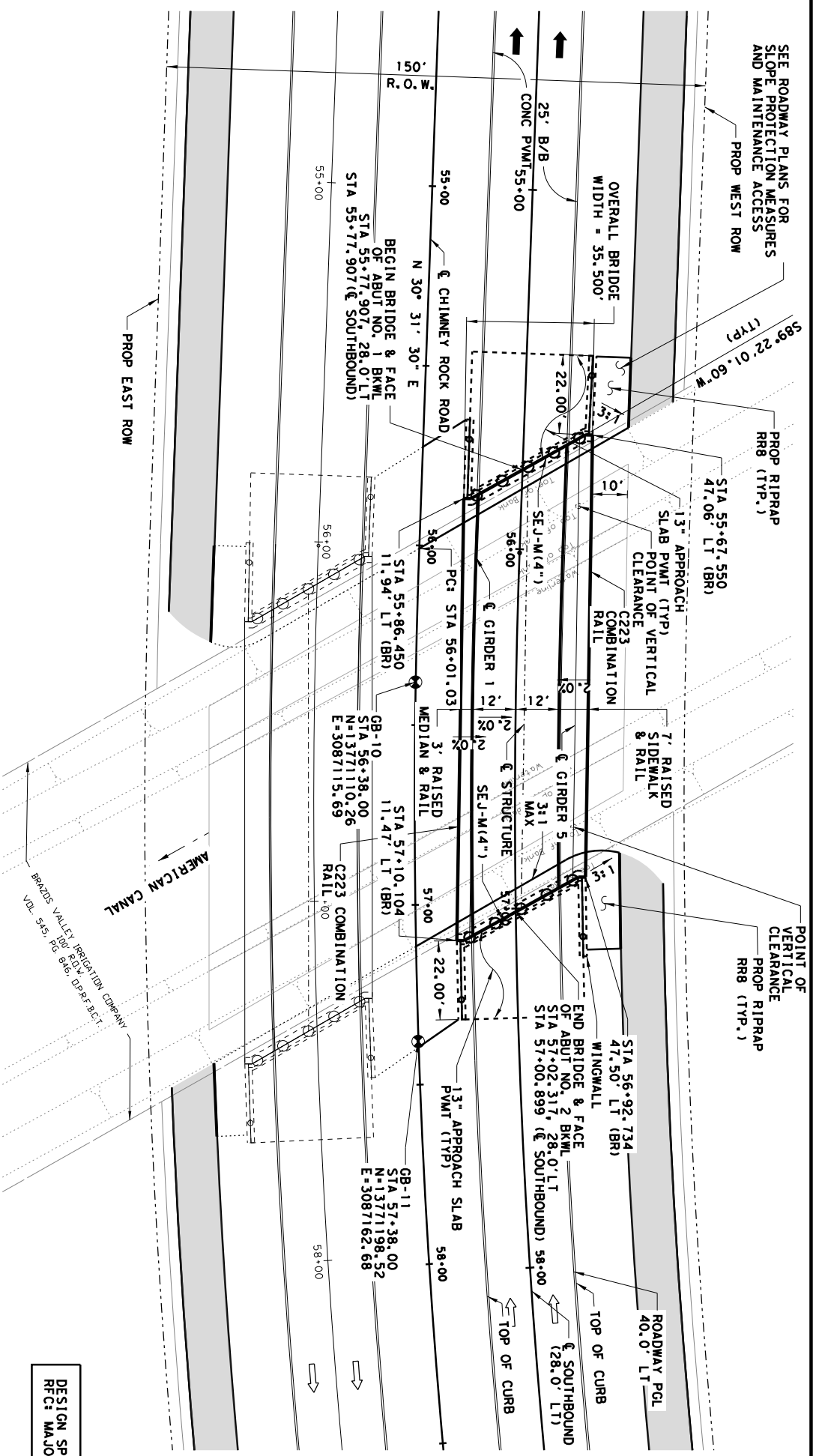


FORT BEND COUNTY
 CHIMNEY ROCK ROAD
 BRIDGE OVER AMERICAN CANAL - NORTHBOUND

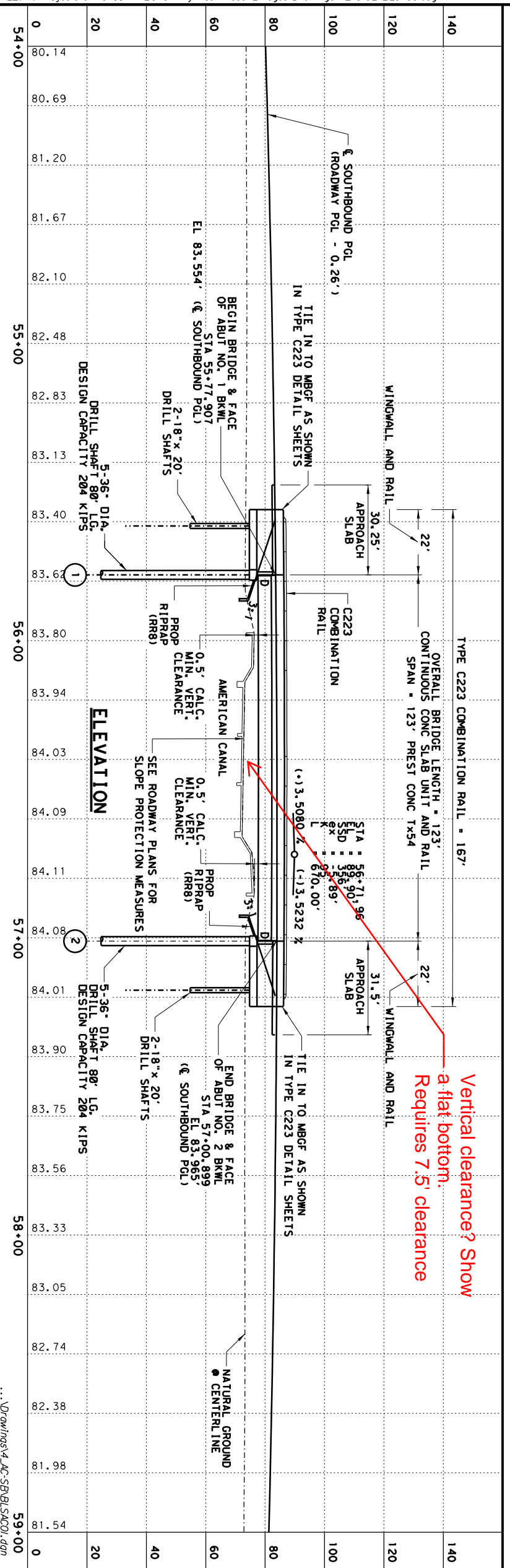
GC ENGINEERING, INC.
 5805 PARK AVENUE, SUITE 100
 FORT WORTH, TEXAS 76116-2823
 TEL: 817.732.1111 FAX: (281) 412-4823
 TBP# FIRM NO. F-7889

BRIDGE LAYOUT

SHEET 191 OF 282
 DRAWN: SQ HORIZ SCALE: 1"=40'
 DESIGNED: BD VERT SCALE: 1"=40'
 CHECKED: AMR DATE: 12/11/2020
 APPROVED: AMR SHEET NO: 1
 CONTRACT: XXX SECTION XXXX



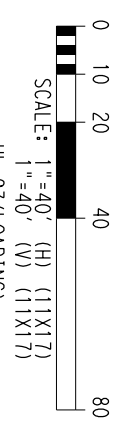
PLAN



Vertical clearance? Show a flat bottom. Requires 7.5' clearance

- GENERAL NOTES:**
- DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION (2017) AND CURRENT INTERIMS FOR HL93 LOADING.
 - BEAM END CONDITIONS: D - DENOTES DOWEL AT EXTERIOR BEAMS. BLANK - DENOTES NO DOWEL.
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 - STATIONS AND OFFSETS ARE FROM CHIMNEY ROCK ROAD CENTERLINE UNLESS SHOWN OTHERWISE.
 - ALL DIMENSIONS ARE FROM CENTER LINE OF STRUCTURE UNLESS OTHERWISE SPECIFIED.
 - REFER TO ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY AND DITCH DETAILS.
 - BRIDGE PGL = ROADWAY PGL - 0.26'. THE PROFILE INFORMATION SHOWN IN THIS SHEET IS BASED OFF & SOUTHBOUND AT MIDDLE OF TRAVEL LANES (28' LT').

DESIGN SPEED: 45 MPH
 RFC3 MAJOR THROUGHFARE



NO.	DATE	REVISION	APPROVED

STATE OF TEXAS
 A. MAHENDRA RODRIGO
 87523
 PROFESSIONAL ENGINEER
 12/11/2020

FORT BEND COUNTY
 CHIMNEY ROCK ROAD

BRIDGE OVER AMERICAN CANAL - SOUTHBOUND

SHEET 203 OF 282

DRAWN: SQ	HORIZ SCALE: 1"=40'
DESIGNED: BD	VERT SCALE: 1"=40'
CHECKED: BD	DATE: 12/11/2020
APPROVED: AMR	SHEET NO:

CONTRACT: XXX SECTION XXXX

TEJAS SURVEYING, INC.

*Firm No. 10031300
1810 First Oaks St., Suite 220
Richmond, TX 77406*

June 22, 2021

Mr. Michael Bagstad, P.E.
Zarinkelk Engineering Services, Inc.
617 Caroline St.
Houston, Texas 77002

Dear Michael;

We hereby propose to provide the following services in accordance with the specifications set forth for an amount of THREE THOUSAND ONE HUNDRED SIXTY AND NO/100 DOLLARS (\$3,160.00):

Refresh the original survey control for the Construction Phase as requested in connection with the Fort Bend County Mobility Project Chimney Rock Road:

1. Locate and flag existing survey control as identified on the attached map.
2. Check the location with current GPS RTK observation. Heights will not be verified, except by GPS observation and comparison to prior GPS observations. Level loops will not be included in the scope of work for "refreshing" monuments.
3. Report any survey control that has been destroyed and cannot be reset in its current location due to completed construction in the area.
4. Report any apparent deviations noted in the height of control monuments.
5. Proposal is contingent up unrestricted access to the control points by 4 wheel off road vehicle with only ordinary operation expenses incurred by the surveyor.

Setting alternate control points with data sheets is not within the scope of work. Additional control points, if needed, can be provided at an additional cost of \$1000 per control point. Deliverables will be an 8-1/2 x 11 control sheet. Elevations will be based on ties to two or more existing control points.

Please allow at least 5 business days for the completion of the work, once written authorization to proceed has been granted, provided vehicular access to the site by 4-wheeler is unrestricted. Payment shall be due and payable upon completion, within 60 days of receipt of invoice for same.

Respectfully submitted:

Accepted by CLIENT:

Randy S. McClendon, RPLS

By:
Title:
Dated: _____



July 8, 2021

Ms. Giti Zarinkelk, PE
President
Zarinkelk Engineering Services, Inc.
617 Caroline Street
Houston, Texas 77002

**Re: Addendum Chimney Rock Road Signal Modifications
Fort Bend County, TX**

Dear Ms. Zarinkelk:

MBCO Engineering, LLC is pleased to provide this addendum proposal to Zarinkelk Engineering Services for traffic engineering services for the above referenced site. MBCO will provide updated engineered plans for a traffic signal at Chimney Rock Road and McHard Road due to the change in TxDOT's design for the intersection. Based on our understanding of the project at this time, we propose the following additional scope of services:

SCOPE OF SERVICES

We will provide updated engineered plans for a traffic signal at the intersection of Chimney Rock Road and McHard Road. The scope will be as follows:

A. Engineering

1. Signal Design

MBCO will update existing conditions based on provided TxDOT signal plans for the intersection which utilize mast arms instead of span wire. MBCO will update construction plans for the traffic signal with mast arms, radar detection, and pedestrian signals. The plans will be updated per the updated TxDOT signal plans and will be per TxDOT Specifications.

FEE SCHEDULE

We propose to provide you the scope of services described above on a lump sum fee basis as follows:

<u>Item</u>	<u>Description</u>	<u>Fee Basis</u>	<u>Fee</u>
A.1	Signal Design		\$11,310
		Lump Sum	\$11,310

Please note that the above fees are based on a smooth project implementation and have assumed no major changes to the scope of services. Fees shown for the hourly basis elements are for budgeting purposes only and invoices will reflect the actual time incurred. Should work



WBE | DBE
SBE | HUB
CERTIFIED

outside the above scope of services be required, a separate proposal will be submitted to the Client for approval prior to our beginning the additional services.

If this proposal meets with your approval, please execute this proposal, and return a copy to me. Your signature below will be sufficient authorization to commence the stated work.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions or require additional information, please do not hesitate to call me at 281.760.1656.

Sincerely,

A handwritten signature in blue ink that reads "Courtney Carr".

Courtney Carr, PE
Project Manager

APPROVED:

By: _____

Name: _____

Title: _____

Date: _____