

STATE OF TEXAS           §  
  §  
COUNTY OF FORT BEND   §

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

**THIS SECOND 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 June 12, 2018 under the 2017 Mobility Bond Program pursuant to SOQ 14-025, and as amended on or about October 21, 2020, collectively referred to as the “Agreement” and incorporated fully by reference for all purposes; and

WHEREAS, the parties desire to amend the Agreement to allow Contractor to provide additional Services under the Agreement, and to increase the Maximum Compensation amount.

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

1. This Amendment is effective as of January 1, 2023, and shall terminate on December 31, 2028, unless sooner terminated in accordance with the Agreement. The Parties acknowledge and agree that services were and will be supported by good and valuable consideration during the Term of this Agreement, the sufficiency of which is acknowledged by the Parties.
2. County shall pay Contractor an additional amount not to exceed One Hundred Twenty-Nine Thousand Three Hundred Fifty Five and 00/100 Dollars (\$129,355.00) to perform the additional Services, as described in Contractor’s proposal dated November 27, 2023, attached hereto as Exhibit “A-2” and incorporated herein for all purposes.
3. The Maximum Compensation payable to Contractor for all Services rendered is hereby increased to an amount not to exceed One Million Six Hundred Sixty-One Thousand Two Hundred Forty Nine and 00/100 Dollars (\$1,661,249.00), authorized as follows:
  - § 1,106,283.00 under the Agreement;
  - § 425,611.00 under the First Amendment; and
  - § 129,355.00 under this Second Amendment.

4. In no case shall the amount paid by County for all Services under the Agreement, the First Amendment, and this Second Amendment exceed the Maximum Compensation without an agreement executed by the parties.
5. 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.
6. Certain State Law Requirements for Contracts. The contents of this Section are required by Texas law and are included by County regardless of content For purposes of Sections 2252.152, 2271.002, and 2274.002, Texas Government Code, as amended, Contractor hereby verifies that Contractor and any parent company, wholly owned subsidiary, majority-owned subsidiary, and affiliate:
  - A. Unless affirmatively declared by the United States government to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization, is not identified on a list prepared and maintained by the Texas Comptroller of Public Accounts under Section 806.051, 807.051, or 2252.153 of the Texas Government Code.
  - B. If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not boycott Israel and is authorized to agree in such contracts not to boycott Israel during the term of such contracts. "Boycott Israel" has the meaning provided in § 808.001 of the Texas Government Code.
  - C. If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not boycott energy companies and is authorized to agree in such contracts not to boycott energy companies during the term of such contracts. "Boycott energy company" has the meaning provided in §809.001 of the Texas Government Code.
  - D. If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and is authorized to agree in such contracts not to discriminate against a firearm entity or firearm trade association during the term of such contracts. "Discriminate against a firearm entity or firearm trade association" has the meaning provided in §2274.001(3) of

the Texas Government Code. “Firearm entity” and “firearm trade association” have the meanings provided in §2274.001(6) and (7) of the Texas Government Code.

7. Recitals. The recitals set forth above are incorporated herein by reference and made a part of the Agreement.
8. Except as provided herein, the parties agree that all terms and conditions of the Agreement shall remain unchanged.

(Execution Page Follows)

(Remainder of Page Intentionally Left Blank)

IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts to be effective on the date signed by the final party.

**FORT BEND COUNTY**

**ZARINKELK ENGINEERING SERVICES, INC.**

\_\_\_\_\_  
KP George, County Judge

*Giti Zarinkelk*

\_\_\_\_\_  
Authorized Agent – Signature

\_\_\_\_\_  
Date

Giti Zarinkelk

\_\_\_\_\_  
Authorized Agent – Printed Name

ATTEST:

\_\_\_\_\_  
President

\_\_\_\_\_  
Title

\_\_\_\_\_  
Laura Richard, County Clerk

\_\_\_\_\_  
March 11, 2024

\_\_\_\_\_  
Date

APPROVED:

*J. Stacy Slawinski*

\_\_\_\_\_  
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

I:\AGREEMENTS\2024 Agreements\Engineering\Zarinkelk Engineering (18-Eng-500035-A2)\Amend 2 - Pro Eng Svcs.docx  
(DRP 2.16.24/LSL rev 3.7.24)

# EXHIBIT A-2



617 Caroline St.  
Houston, Texas 77002  
Phone 832-242-2426  
Fax 832-242-2445  
www.zarinkelk.com

November 27, 2023

County Auditor  
Fort Bend County – Precinct 3  
301 Jackson  
Richmond, TX 77469

Attn: Mark Dessens, P.E., Program Manager

Project: **Fulshear-Gaston Road from FM723 to FM 359**

The County has requested plan changes to accommodate planned development occurring along the roadway. These changes will require the following changes to be made to the plans:

- Add two driveways per developers plans approximate station 23+50.
- Revise drainage area maps to reflect developers plans on north side.
- Sidewalks and temporary swales Kitty Hawk West to Kitty Hawk East
- Delete east driveway station 48+00
- Add ramps and crosswalk to cross Fulshear Gaston.
- Add sidewalk from Elementary School Site to Reese Lake Drive.
- Add TCE's on the north side to accommodate sidewalk and swale.
- Change type of inlets on the north side.
- Check and revise as necessary storm inlet leads and storm sewer.
- Modify left turn lanes into driveways 4, 5 and 6 on sheet 41.
- Add note on sheet to contractor concerning fire station.
- Extend concrete to station 73+50. Adjust SW3P, demolition, traffic control, signage and striping and cross section sheets accordingly. Add/subtract detail sheets as needed.  
Update the index and sheet numbers.
- Add a driveway at station 73+00.
- Adjust asphalt transition to allow construction tie in to concrete on the next phase. Make transition 3 lanes.
- Ensure radii on transition a minimum of 1,000 feet.
- Add note in Summary of Work Scope to relocate school signs.
- Add drop in trunk line at outfall to accommodate development to the north. Lower the line by 2' to sta 24+39.



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- Add drainage access easements for the culverts coming from the airport. Add ditch interceptors to tie into proposed box.
- Add driveway to church property.
- Additional survey to include updated topo, ROW and survey control, extend topo to Sprint Pond, 10 abstract reports, 9 drainage easement parcel exhibits with metes and bounds, 4 ROW parcel acquisitions with metes and bounds, set corners in the field, and recover and verify existing control for Phase I and Phase II.

The proposed fee for these changes is \$129,355.00. Enclosed is our level of effort for the above referenced project.

We appreciate the opportunity to work on this project. Please contact me if you have any questions.

Sincerely,

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

Giti Zarinkelk, P.E.

Encl: Level of Effort  
Survey proposal

Fulshear-Gaston Road from FM 723 to FM 359  
Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/Technician	CADD Operator	QA/QC Review	Clerical	Total Labor Hours & Costs
<b>DESIGN CHANGES</b>										
Revising the plan and profiles (12 sheets)		24	80			120				224
Coordinate for proposed storm drain connections		8								8
Revise Driveway Summary Sheet		4	6			12				18
Revise Drainage Area Maps and Drainage Calculations Sheet			16			16				36
Revise Stationing on Typ. Sections			2			4				6
Add additional ROW & TopoSheet for Extension Past Reese Lake Dr.			4			8				12
Revise ICP, Stripping and SW3P Plans for Revised Transition at 73+50		1	10			16				27
Necessary Detail Adjustments		0	2			8				10
HOURS SUB-TOTALS	0	37	120	0	0	184	0	0	0	341
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$0.00	\$3,145.00	\$7,800.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00	\$ 20,145.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$0.00	\$9,435.00	\$23,400.00	\$0.00	\$0.00	\$27,600.00	\$0.00	\$0.00	\$0.00	\$ 60,435.00
<b>TOTAL ITEM</b>										<b>\$ 60,435.00</b>
<b>SUB CONSULTANT SERVICES</b>										
SURVEY										\$ 64,000.00
<b>TOTAL ITEM</b>										<b>\$ 64,000.00</b>
<b>PROJECT MANAGEMENT</b>										
OVERSIGHT HOURS SUB-TOTALS	0	8	18		0	0	0	0		26
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	\$1,080.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 1,640.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$0.00	\$1,680.00	\$3,240.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 4,920.00
<b>TOTAL ITEM</b>										<b>\$ 4,920.00</b>
<b>PROJECT TOTALS</b>										
ENGINEERING										\$ 60,435.00
SUB CONSULTANTS										\$ 64,000.00
PROJECT MANAGEMENT										\$ 4,920.00
<b>TOTAL ALL SERVICES</b>										<b>\$ 129,355.00</b>



# Amani Engineering, Inc.

• Engineers • Surveyors • Construction Managers

November 27, 2023  
Michael J. Bagstad, P. E.  
Zarinkelk Engineering Services, Inc.  
617 Caroline St.  
Houston, Texas 77002

Re: Fee Proposal for Surveying Services – Fulshear-Gaston Road from FM 723 to FM 359 – Fort Bend County 2017 Mobility Projects, Parcel Acquisition related Surveying Services-Revision 2.

Dear Mr. Bagstad:

Amani Engineering, Inc. is pleased to submit this revised fee proposal for surveying services for the above referenced project. We propose the following scope of work, deliverables, schedule, fee and exclusions for our services.

## I. SCOPE OF WORK – EXTEND SURVEY LIMITS

- Extend the topographic survey from Reese Lake intersection to station 73+50, approximately 350 LF. Update existing right-of-way sheets, topographic survey sheets and survey control.
- Extend the topographic survey from Fulshear-Gaston Road to Sprint Detention Basin at station 43+50, approximately 400 LF.

## II. PARCEL ACQUISITION

- Obtain abstract reports for ten (10) parcels: R45119, R59880, R59874 R515439, R169388, R169240, R59925 and R198946, R300086, R155584.
- Review record documents and verify monumentation in the field.
- Prepare nine (9) drainage easement exhibits and associated metes and bounds descriptions.
- Prepare four (4) right of way parcel acquisition exhibits and associated metes and bounds descriptions conforming with TSPS Category 1A, Condition 2 standards.
- Set corners in the field.

## III. RECOVER CONTROL

- Recover and verify existing control monumentation for Phase I.
- Recover and verify existing control monumentation for Phase II.

## IV. SCHEDULE

Extended topographic survey, survey control, right-of-way and parcel acquisition to be completed twelve (12) weeks from the date of written authorization weather permitting.

## V. FEE

The estimated fee for the above mentioned Scope of Work, including extending topographic survey, survey control map and right-of-way sheets is **\$64,000.00**. Below is a summary of the fee.

UPDATE TOGRAPHIC SURVEY STA. 70+00 TO 73+50	=	\$1,500.00
UPDATE EXISTING RIGHT-OF-WAY & SURVEY CONTROL STA. 70+00 to 73+50	=	\$2,000.00
EXTEND TOPOGRAPHIC SURVEY AT STA. 43+50, 400 LF TO SPRINT DETENION BASIN	=	\$2,500.00
	<b>Update Fee</b>	<b><u>\$ 6,000.00</u></b>
ABSTRACT REPORTS (9<10 ac @\$500 ea., 1>10ac \$1000 ea.)	=	\$5,500.00
PARCEL EXHIBITS & ASSOCIATED METES AND BOUNDS (13@ \$3,000.00 ea)	=	\$39,000.00

Zarinkelk Engineering Services, Inc.

Fee Proposal for Surveying Services – Fulshear-Gaston Road from FM 723 to FM 359 – Fort Bend County

2017 Mobility Projects, Parcel Acquisition & Additional Surveying Services-Revision 2

November 27, 2023

Page 2 of 2

SET CORNERS FOR 13 PARCELS (13@\$500 ea.)	=	\$6,500.00
	<b>Parcel Acquisition Fee</b>	<b><u>\$ 51,000.00</u></b>
RECOVER AND VERIFY CONTROL PHASE I	=	\$3,500.00
RECOVER AND VERIFY CONTROL PHASE II	=	\$3,500.00
	<b>Control Verification Fee</b>	<b><u>\$ 7,000.00</u></b>
	<b>Total Fee</b>	<b><u>\$ 64,000.00</u></b>

**VI. EXCLUSIONS**

- Base profile drawing
- Subsurface utility engineering and locating
- Construction staking
- Updates to topographic survey between station 10+00 to 70+00.
- Updates to topographic survey Phase II.
- Updates to survey control map or right-of-way outside 350 LF limits mentioned above.
- Updated ROW to Category 1B, Condition 2 right-of way .

We appreciate this opportunity to propose on this project and look forward to working on the project. Please call Christina Weaver, RPLS at 713-270-5700 ext. 116 if you have any questions or need additional information concerning this proposal.

Yours sincerely,  
**For Amani Engineering, Inc.**



Mahesh Dutta, P.E., CFM

Executive Vice President

***TBPE Firm Reg. No. F-4528***

***TBPLS Firm Reg. No. 100282-0***

HPK: md:ew: wr

Encl.: 1) EXHIBIT A – Parcel Acquisition Location ,  
2) Exhibit B Offsite Drainage easement locations



BENCHMARK FBC MONUMENT 100, BRONZ DISK  
 100.00' FROM CORNER OF 100'x100' FOOT  
 WEST SIDE OF INTERSECTION PARKWAY (RWB)  
 DR AND DELROSE CROSSING DR ELEV. 122.67  
 (NAVD 88').

NOTES:  
 1 PROPOSED 8 INCH REINFORCED CONCRETE  
 PAVEMENT WITH 6 INCH CURB OVER  
 8 INCH SUBGRADE.

2 PROPOSED ASPHALT TRANSITION PAVEMENT.

3 PROPOSED STORM INLET TYPE C2

4 PROPOSED 6 INCH CONC. CURB

5 PROP CONCRETE MEDIAN NOSE.

6 PROPOSED SWALE @ 0.1%

7 PROPOSED STM INLET MODIFIED TYPE C2  
 WITH RIFRAP TO ROW LIMITS.

8 P-U-C POTENTIAL UTILITY CONFLICT.

9 PROPOSED 5' SIDEWALK.

10 ADJUST EXIST MANHOLE TO PROP GRADE.

11 PROP 79 LF STM LATERAL-24" PIPE.

12 PROP STM SWR MH ON TOP OF EXIST RCB  
 WITH TYPE C INLET.

13 CONTRACTOR SHALL USE CARE TO MAKE  
 OPENING IN ALL OF RCB. OPENING SHALL  
 BE AT LEAST 10' GREATER IN DIAMETER OF  
 THE PROPOSED PIPE. PROPOSED PIPE  
 SHALL BE INSTALLED WITH 18" MIN FILL  
 ENTIRE VOID AROUND PIPE WITH  
 BACKFILLING AROUND PROPOSED PIPE  
 WITH C-SAND.

14 PROP TYPE '7' RAMP

15 PROP TYPE '10' RAMP

16 PROP TYPE '3' RAMP

17 PROP SWALE INTERCEPTOR

18 PROP TYPE '2' RAMP

SCALE: 1"=40'-H

NO. DATE REVISION APPROVED

THESE DOCUMENTS ARE FOR  
 INTERIM REVIEW AND NOT  
 FOR CONSTRUCTION. THE  
 DESIGNER SHALL BE RESPONSIBLE FOR  
 VERIFYING ALL INFORMATION  
 PROVIDED BY THE CLIENT.  
 ZARINKEL ENGINEERING SERVICES, INC.  
 417 CALDWELL ST  
 HOUSTON, TEXAS 77002  
 PHONE: 281.282.2466  
 FAX: 281.282.2465  
 www.zarinkel.com  
 TEXAS REGISTRATION NO. 1666591  
 10/13/2023

FORT BEND COUNTY

Zarinkel  
 Engineering Services, Inc.

FULSHEAR-GASTON ROAD  
 PLAN & PROFILE

BEGIN PROJECT TO STA 15+00

SHEET 1 OF 14

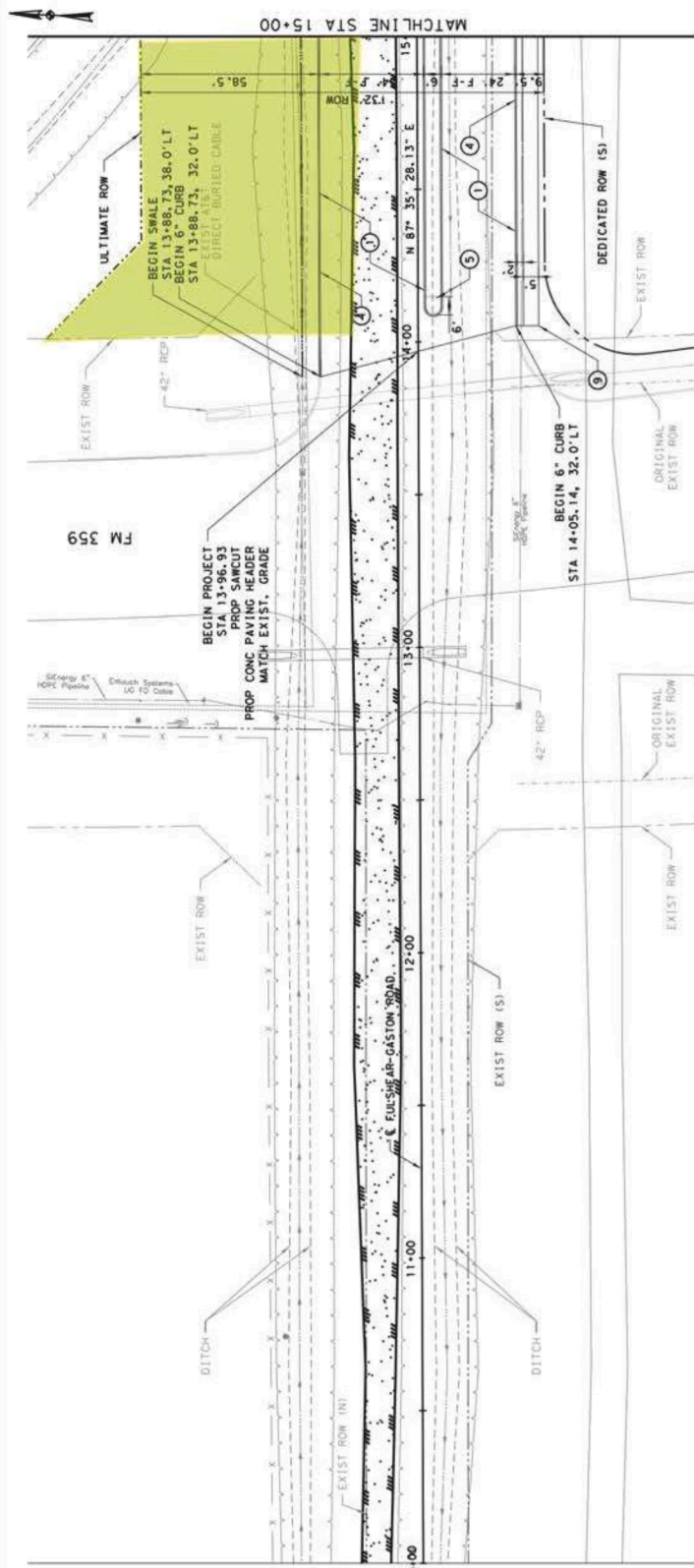
DRAWN: JC HORIZ. SCALE: 1"=40'

DESIGNED: JC VERT. SCALE:

CHECKED: PK DATE: 10/13/2023

APPROVED: GZ SHEET NO.: 29

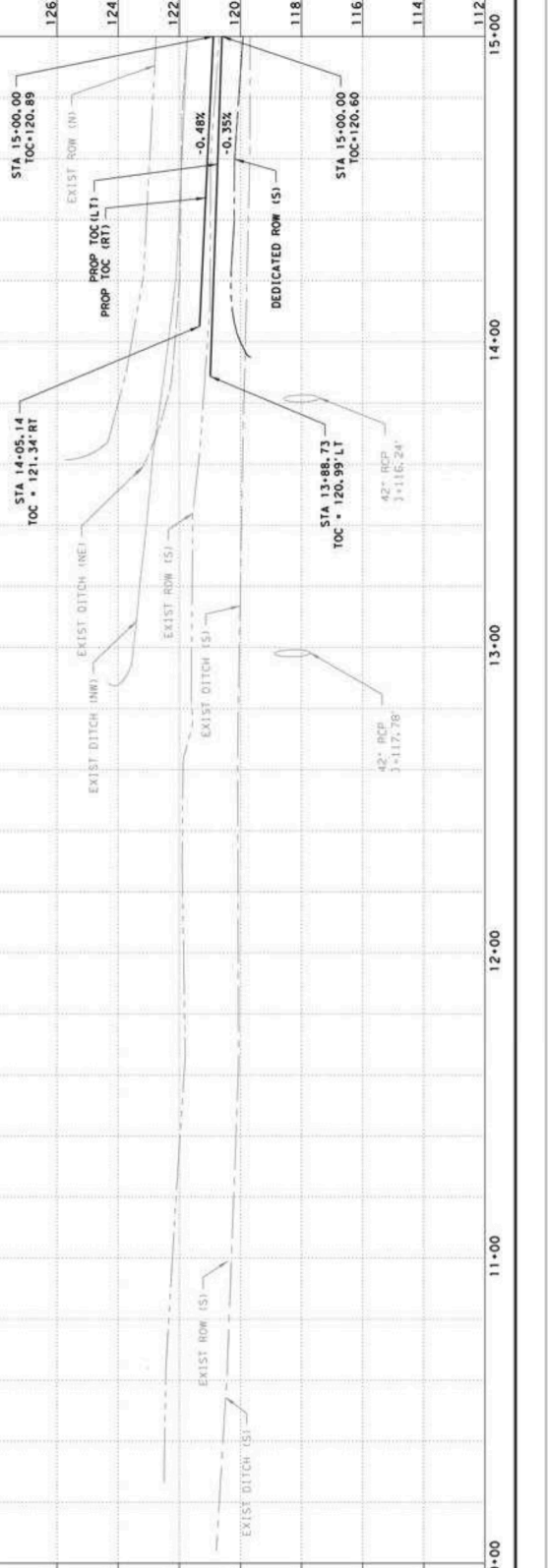
CONTRACT: SECTION



F-F = ROAD DIMENSIONS ARE FACE TO FACE

POLYPROPYLENE PIPE AS AN ALTERNATIVE TO RCP

(4) TO BE REMOVED (8) REMAIN IN PLACE



DATE: 10/13/2023  
 FILE: Z:\cvt\Fort Bend County\proj\cvt\Fort Bend Fulshear-Gaston\CD\Phase 2\9 C-001.dgn  
 James Colbert  
 10/13/2023

BENCHMARK: FBC MONUMENT 100, BRONZ DISK  
 11.00 FT HIGH FROM CORNER OF 100'x100' FT  
 WESTSIDE OF INTERSECTION PARKWAY, 122.67  
 DR AND DELROSE CROSSING DR ELEV. 122.67  
 (NAVD 88').

NOTES:

- PROPOSED 8 INCH REINFORCED CONCRETE PAVEMENT WITH 6 INCH CURB OVER 8 INCH SUBGRADE.
- PROPOSED ASPHALT TRANSITION PAVEMENT.
- PROPOSED STORM INLET TYPE C2
- PROPOSED 6 INCH CONC. CURB
- PROP CONCRETE MEDIAN NOSE.
- PROPOSED SMALE # 0.12
- PROPOSED STM INLET MODIFIED TYPE C2 WITH RIFRAP TO ROW LIMITS.
- P-U-C POTENTIAL UTILITY CONFLICT.
- PROPOSED 5' SIDEWALK.
- ADJUST EXIST MANHOLE TO PROP GRADE.
- PROP 79 LF STM LATERAL-24" PIPE.
- PROP STM SMR MH ON TOP OF EXIST RCB WITH TYPE C INLET.
- CONTRACTOR SHALL USE CARE TO MAKE OPENING IN ALL OF RCB. OPENING SHALL BE GREATER IN OUTSIDE DIAMETER OF THE PROPOSED PIPE. PROPOSED PIPE TO BE INSTALLED WITH 12" MIN. FILL THE INSIDE FACE OF RCB WALL. ENTIRE VOID AROUND PIPE WITH BACKFILL. BACKFILL TO BE PROPOSED RCB WITH C-SAND.
- PROP TYPE '7' RAMP
- PROP TYPE '10' RAMP
- PROP TYPE '13' RAMP
- PROP SMALE INTERCEPTOR
- PROP TYPE '2' RAMP

SCALE: 1" = 40'-H

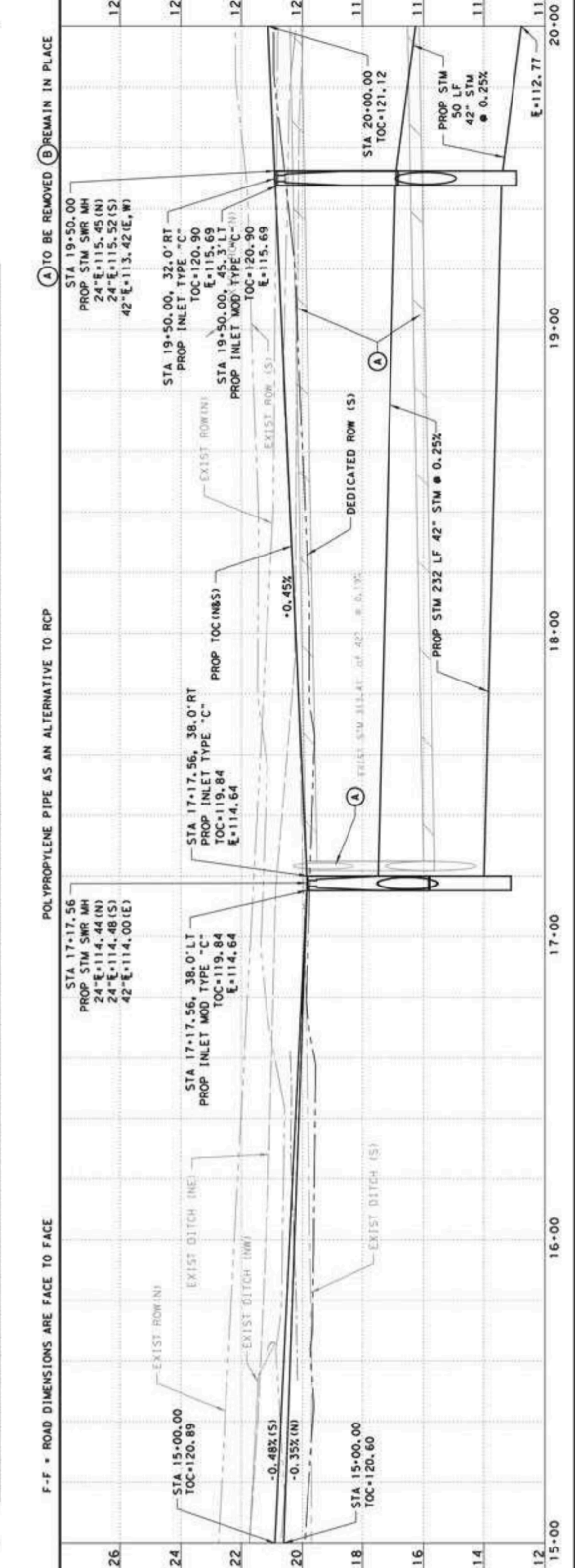
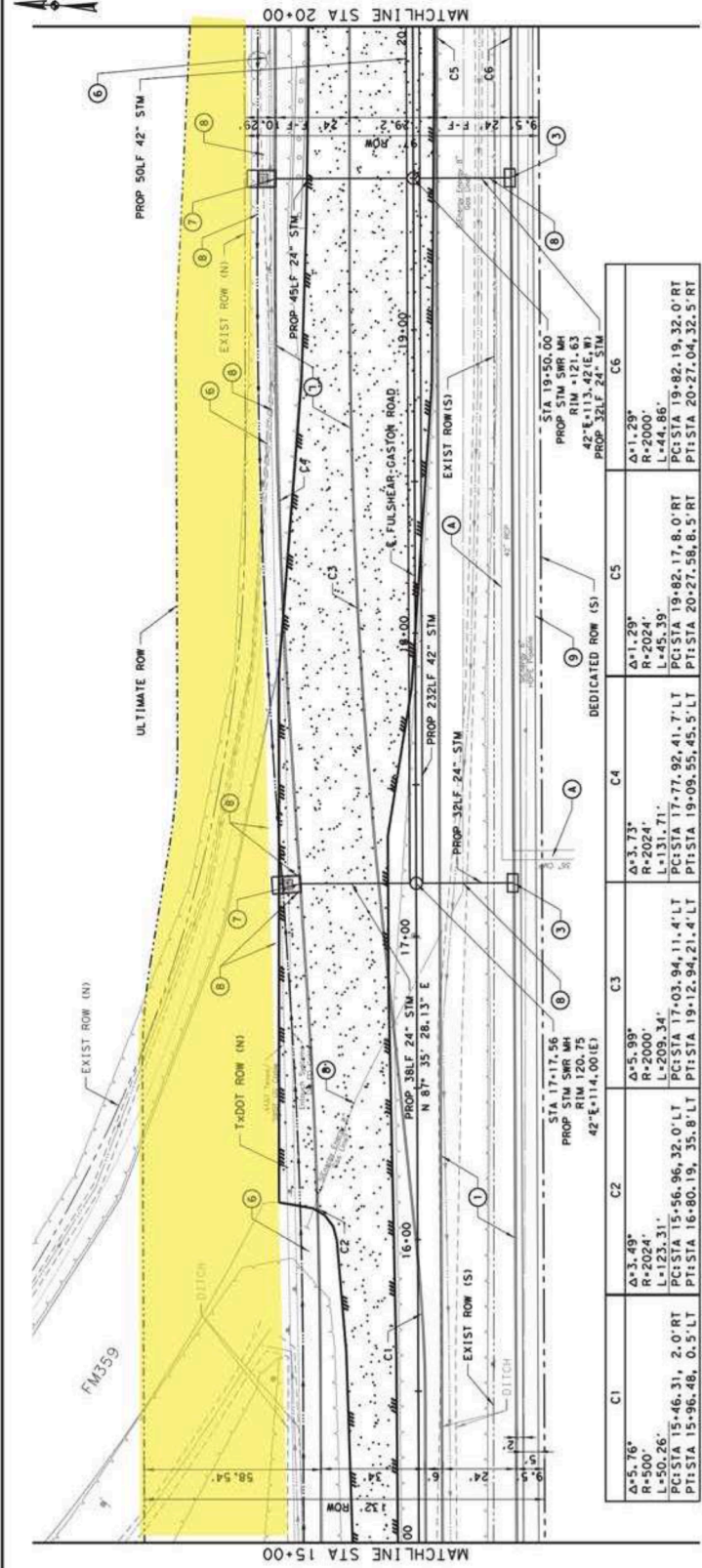
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NO. DATE REVISION APPROVED

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT FOR CONSTRUCTION. THE DESIGNER ASSUMES NO RESPONSIBILITY FOR FLOODING OR BEING SUBJECT TO FLOODING. ZARINKEL ENGINEERING SERVICES, INC. REGISTERED PROFESSIONAL ENGINEER (E.L. RICE MOORE), P.E. TEXAS REGISTRATION NO. 1666591 10/13/2023

**FORT BEND COUNTY**  
**Zarinkel**  
 Engineering Services, Inc.  
**FULSHEAR-GASTON ROAD**  
**PLAN & PROFILE**

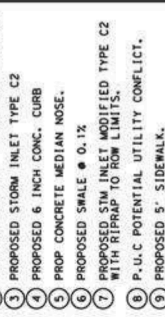
STA 15-00 TO STA 20-00  
 SHEET 2 OF 14  
 DRAWN: JC  
 VERT SCALE: 1"=40'  
 DESIGNED: JC  
 DATE: 10/13/2023  
 CHECKED: PK  
 APPROVED: GZ  
 SHEET NO: 30  
 CONTRACT: SECTION



BENCHMARK: FBC MONUMENT 100, BRONZ DISK  
 100.00' HIGH, 100.00' DIAMETER, 100.00' FT  
 WEST SIDE OF INTERSECTION PARHAM ROAD  
 DR AND DELOROSE CROSSING DR ELEV. 122.67  
 (NAVD 88').

NOTES:  
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 BACKFILL. EXISTING PROPOSED RCB  
 WITH C-SAND.

14 PROP TYPE '7' RAMP  
 15 PROP TYPE '10' RAMP  
 16 PROP TYPE '13' RAMP  
 17 PROP SMALL INTERCEPTOR  
 18 PROP TYPE '2' RAMP



NO.	DATE	REVISION	APPROVED

THESE DOCUMENTS ARE FOR  
 INTERIM REVIEW AND NOT  
 FOR CONSTRUCTION. THE  
 RESPONSIBLE ENGINEER  
 ZARINKEL ENGINEERING SERVICES, INC.  
 (E. L. RICE MOORE), P. E.  
 TEXAS REGISTRATION NO. 1666591  
 10/13/2023

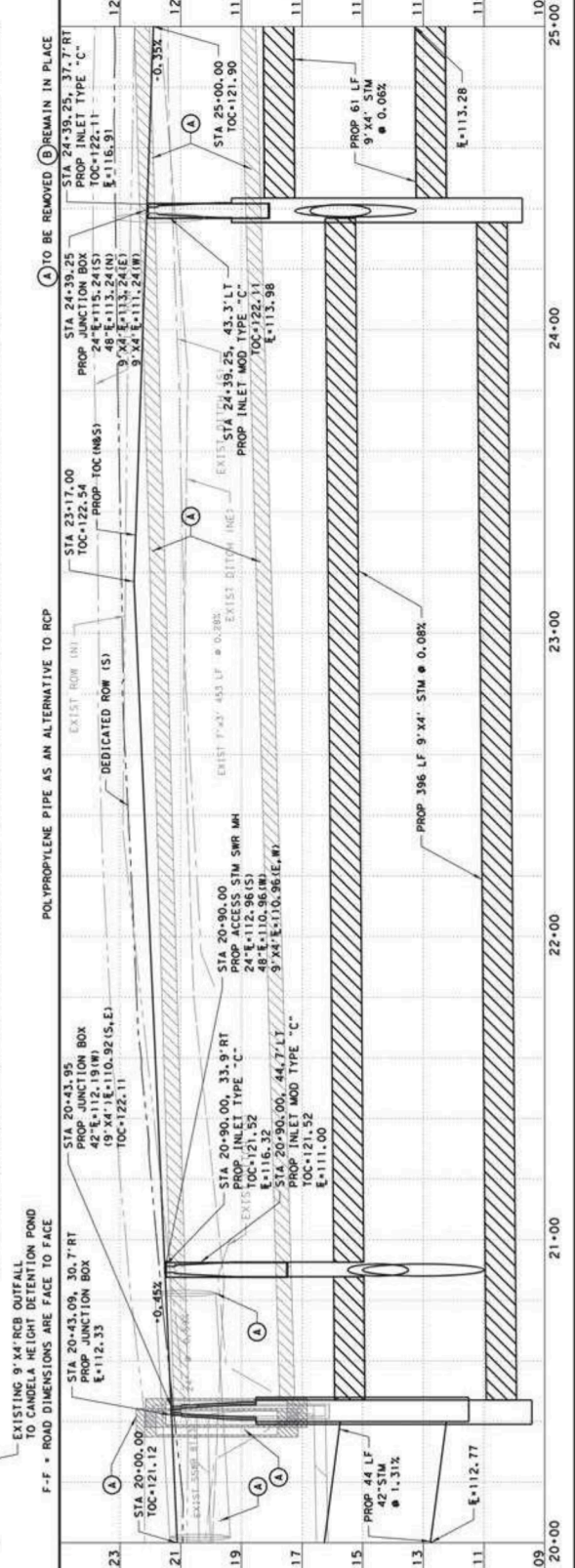
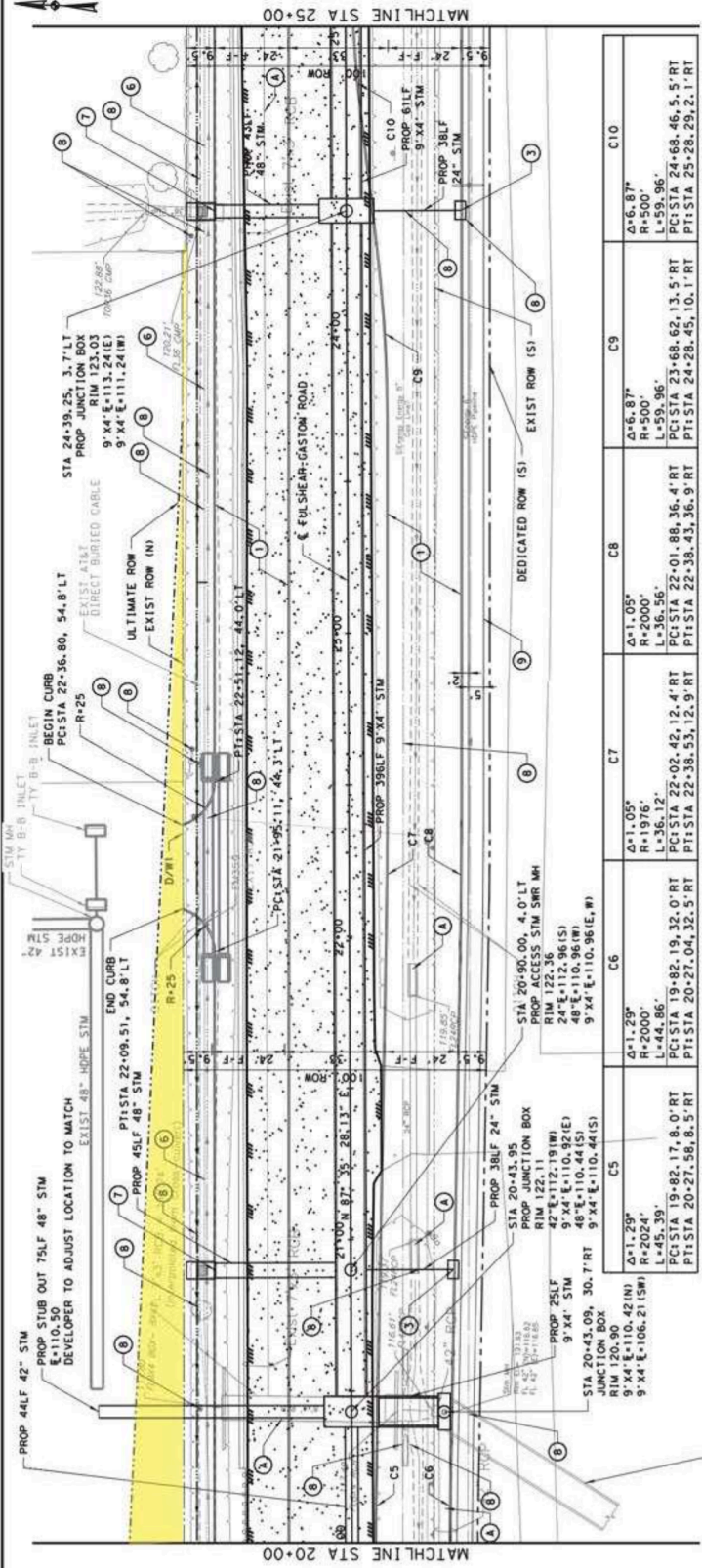
**FORT BEND COUNTY**  
**Zarinkel**  
 Engineering Services, Inc.  
**FULSHEAR-GASTON ROAD**  
**PLAN & PROFILE**

STA 20+00 TO STA 25+00

SHEET 3 OF 14

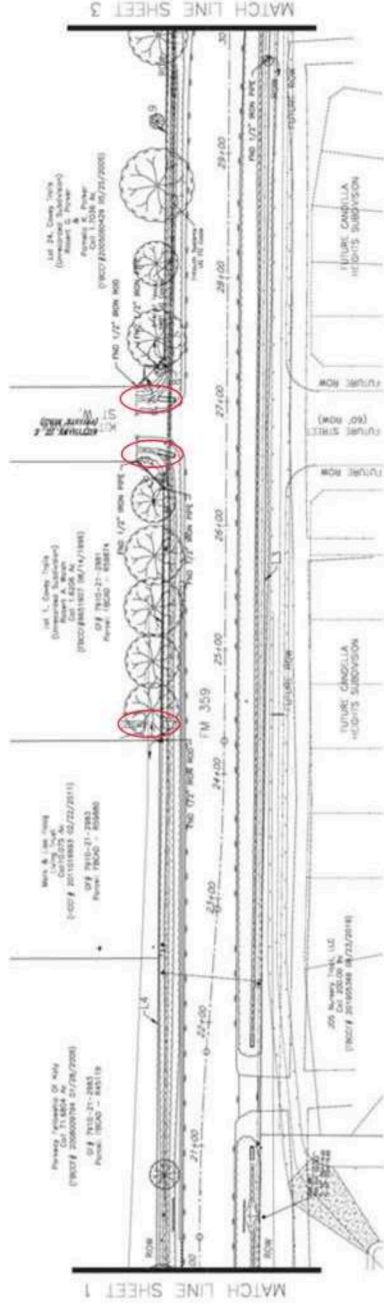
DRAWN: JC  
 DESIGNED: JC  
 CHECKED: PK  
 APPROVED: OZ

CONTRACT: SECTION



Drainage Easement Locations

R.L. KUENZEL SURVEY  
A-274



J. JOSTER SURVEY, A-26

Line #	Length	Direction
1.3	1701.24'	N87°52'06.66"E
1.4	585.56'	N87°44'50.35"E
1.5	203.05'	N87°53'53.64"E
1.6	30.46'	N42°24'09.11"E
1.7	23.35'	S46°56'38.80"E
1.8	8.36'	S51°09'53.36"E
1.9	755.40'	N87°48'57.69"E

Curve #	Length	Radius	Delta	Chord Bearing	Chord Distance
C2	748.37'	480.90'	89°09'47"	S47°15'32"E	748.37'

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
Figure (Color) (red)	A	Iron Rebar	⊕
Figure Marker	B	Iron Rebar Head	⊕
Site Line Sign	C	Rebar	⊕
Site Marker	D	Survey Point	⊕
Site View	E	Survey Station	⊕
Site Light Pole	F	Telephone Cable Sign	⊕
Site Pole (44')	G	Telephone Pole	⊕
Street Light	H	Site Sign	⊕
Street Sign	I	Iron Sign	⊕
Service Pole (60' - 65')	J	Iron Pole	⊕
Power Pole	K	City of Houston Marker	⊕
Power Pole w/Sign	L	City of Houston Marker	⊕
Power Pole w/Conduit	M	City of Houston Marker	⊕
City Marker	N	City of Houston Marker	⊕
Utility Pole	O	City of Houston Marker	⊕
Decorative Pole	P	City of Houston Marker	⊕
Decorative Pole	Q	City of Houston Marker	⊕
Decorative Pole	R	City of Houston Marker	⊕
Decorative Pole	S	City of Houston Marker	⊕
Decorative Pole	T	City of Houston Marker	⊕
Decorative Pole	U	City of Houston Marker	⊕
Decorative Pole	V	City of Houston Marker	⊕
Decorative Pole	W	City of Houston Marker	⊕
Decorative Pole	X	City of Houston Marker	⊕
Decorative Pole	Y	City of Houston Marker	⊕
Decorative Pole	Z	City of Houston Marker	⊕
Decorative Pole	AA	City of Houston Marker	⊕
Decorative Pole	AB	City of Houston Marker	⊕
Decorative Pole	AC	City of Houston Marker	⊕
Decorative Pole	AD	City of Houston Marker	⊕
Decorative Pole	AE	City of Houston Marker	⊕
Decorative Pole	AF	City of Houston Marker	⊕
Decorative Pole	AG	City of Houston Marker	⊕
Decorative Pole	AH	City of Houston Marker	⊕
Decorative Pole	AI	City of Houston Marker	⊕
Decorative Pole	AJ	City of Houston Marker	⊕
Decorative Pole	AK	City of Houston Marker	⊕
Decorative Pole	AL	City of Houston Marker	⊕
Decorative Pole	AM	City of Houston Marker	⊕
Decorative Pole	AN	City of Houston Marker	⊕
Decorative Pole	AO	City of Houston Marker	⊕
Decorative Pole	AP	City of Houston Marker	⊕
Decorative Pole	AQ	City of Houston Marker	⊕
Decorative Pole	AR	City of Houston Marker	⊕
Decorative Pole	AS	City of Houston Marker	⊕
Decorative Pole	AT	City of Houston Marker	⊕
Decorative Pole	AU	City of Houston Marker	⊕
Decorative Pole	AV	City of Houston Marker	⊕
Decorative Pole	AW	City of Houston Marker	⊕
Decorative Pole	AX	City of Houston Marker	⊕
Decorative Pole	AY	City of Houston Marker	⊕
Decorative Pole	AZ	City of Houston Marker	⊕
Decorative Pole	BA	City of Houston Marker	⊕
Decorative Pole	BB	City of Houston Marker	⊕
Decorative Pole	BC	City of Houston Marker	⊕
Decorative Pole	BD	City of Houston Marker	⊕
Decorative Pole	BE	City of Houston Marker	⊕
Decorative Pole	BF	City of Houston Marker	⊕
Decorative Pole	BG	City of Houston Marker	⊕
Decorative Pole	BH	City of Houston Marker	⊕
Decorative Pole	BI	City of Houston Marker	⊕
Decorative Pole	BJ	City of Houston Marker	⊕
Decorative Pole	BK	City of Houston Marker	⊕
Decorative Pole	BL	City of Houston Marker	⊕
Decorative Pole	BM	City of Houston Marker	⊕
Decorative Pole	BN	City of Houston Marker	⊕
Decorative Pole	BO	City of Houston Marker	⊕
Decorative Pole	BP	City of Houston Marker	⊕
Decorative Pole	BQ	City of Houston Marker	⊕
Decorative Pole	BR	City of Houston Marker	⊕
Decorative Pole	BS	City of Houston Marker	⊕
Decorative Pole	BT	City of Houston Marker	⊕
Decorative Pole	BU	City of Houston Marker	⊕
Decorative Pole	BV	City of Houston Marker	⊕
Decorative Pole	BW	City of Houston Marker	⊕
Decorative Pole	BX	City of Houston Marker	⊕
Decorative Pole	BY	City of Houston Marker	⊕
Decorative Pole	BZ	City of Houston Marker	⊕
Decorative Pole	CA	City of Houston Marker	⊕
Decorative Pole	CB	City of Houston Marker	⊕
Decorative Pole	CC	City of Houston Marker	⊕
Decorative Pole	CD	City of Houston Marker	⊕
Decorative Pole	CE	City of Houston Marker	⊕
Decorative Pole	CF	City of Houston Marker	⊕
Decorative Pole	CG	City of Houston Marker	⊕
Decorative Pole	CH	City of Houston Marker	⊕
Decorative Pole	CI	City of Houston Marker	⊕
Decorative Pole	CJ	City of Houston Marker	⊕
Decorative Pole	CK	City of Houston Marker	⊕
Decorative Pole	CL	City of Houston Marker	⊕
Decorative Pole	CM	City of Houston Marker	⊕
Decorative Pole	CN	City of Houston Marker	⊕
Decorative Pole	CO	City of Houston Marker	⊕
Decorative Pole	CP	City of Houston Marker	⊕
Decorative Pole	CQ	City of Houston Marker	⊕
Decorative Pole	CR	City of Houston Marker	⊕
Decorative Pole	CS	City of Houston Marker	⊕
Decorative Pole	CT	City of Houston Marker	⊕
Decorative Pole	CU	City of Houston Marker	⊕
Decorative Pole	CV	City of Houston Marker	⊕
Decorative Pole	CW	City of Houston Marker	⊕
Decorative Pole	CX	City of Houston Marker	⊕
Decorative Pole	CY	City of Houston Marker	⊕
Decorative Pole	CA	City of Houston Marker	⊕

NOTES:  
1. ALL SURVEY DATA, BENCHMARKS AND INFORMATION ARE SHOWN ON SURVEY CONTROL MAP SHEETS.  
2. THIS IS APPARENT RIGHT OF WAY. THIS IS NOT A BOUNDARY SURVEY.  
3. HORIZONTAL AND VERTICAL CURVE DATA REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD83 (2011) EPOCH 2010.  
4. BENCHMARK: 100, BRONZE DISK IN CONCRETE, LOCATED AT THE INTERSECTION OF FM 359 AND DUNN CROSSING DR. ELEVATION: 112.87 (MVG-85)

GRAPHIC SCALE  
0 50 100  
FEET (1 IN FEET) = 40'  
HALF INCH = 1" = 100'

AMANI ENGINEERING, INC.  
3001 SOUTH WEST FREWAY  
SUITE 600  
DALLAS, TEXAS 75274  
TEL: (214) 270-5700  
FAX: (214) 270-5700  
WWW.AMANIENGINEERING.COM  
DATE: 08/22/2022

DESIGNED BY: UP  
CHECKED BY: MU  
SURVEYED BY: AMANI  
FB NO.

FORT BEND COUNTY  
ENGINEERING DEPARTMENT

FULSHEAR-GASTON RD.  
FROM FM 723 TO FM 359

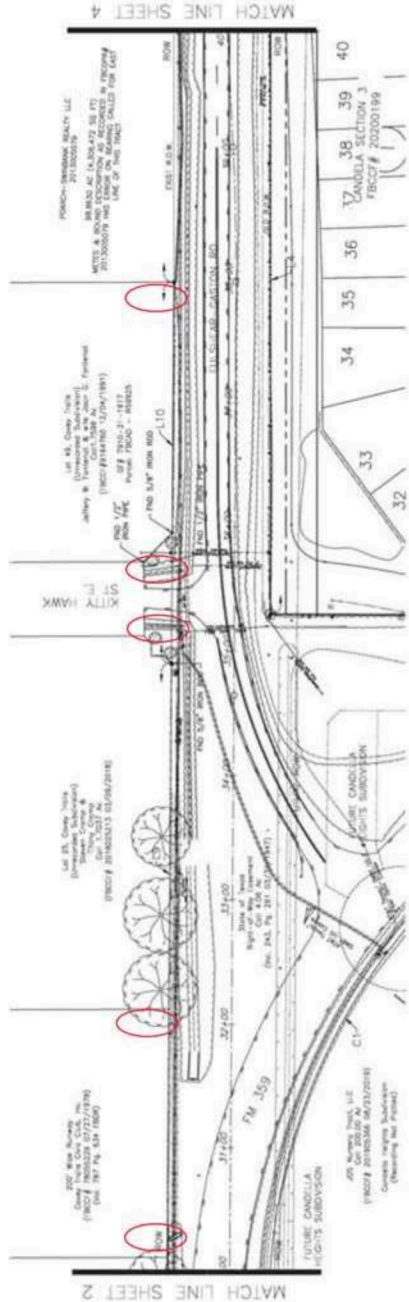
R.O.W. MAP  
SHEET 2 OF 6

PROJECT NO.:  
FORT BEND COUNTY PM  
DATE:  
08-02-22

SHEET NO.:  
14

Drainage Easement Locations

R.L. KUWENDALL SURVEY  
A-274



J. FOSTER SURVEY, A-26

Line #	Length	Direction
L9	755.40'	S87°48'57.69"E
L10	307.06'	S87°45'04.82"E
L11	1993.71'	S87°23'55.89"E
L12	3347.09'	S87°24'26.07"E

Curve #	Length	Radius	Delta	Chord Bearing	Chord Distance
C2	748.37'	480.90'	89°09'47"	S47°15'32"E	748.37'

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
Figure Closing Nail	▲	Iron Spigot Nail	▲
Figure Marker	■	Iron Spigot Nail	▲
Iron Line Sign	□	Rebar	■
Iron Marker	●	Ironware Nail	▲
Iron Wire	○	Small Nail	▲
Iron Light Pole	⊙	Telephone Corner Sign	▲
Iron Pole 100'	⊙	Telephone Pedestal Box	▲
Iron Pole 150'	⊙	5/8" Bar	■
Iron Pole 200'	⊙	Iron Bar	■
Iron Pole 250'	⊙	Iron Post	■
Iron Pole 300'	⊙	City of Houston Marker	▲
Iron Pole 350'	⊙	Power Pole w/Sign	▲
Iron Pole 400'	⊙	Power Pole w/Sign	▲
Iron Pole 450'	⊙	Power Pole w/Sign	▲
Iron Pole 500'	⊙	Power Pole w/Sign	▲
Iron Pole 550'	⊙	Power Pole w/Sign	▲
Iron Pole 600'	⊙	Power Pole w/Sign	▲
Iron Pole 650'	⊙	Power Pole w/Sign	▲
Iron Pole 700'	⊙	Power Pole w/Sign	▲
Iron Pole 750'	⊙	Power Pole w/Sign	▲
Iron Pole 800'	⊙	Power Pole w/Sign	▲
Iron Pole 850'	⊙	Power Pole w/Sign	▲
Iron Pole 900'	⊙	Power Pole w/Sign	▲
Iron Pole 950'	⊙	Power Pole w/Sign	▲
Iron Pole 1000'	⊙	Power Pole w/Sign	▲

GRAPHIC SCALE  
( IN FEET )

NOTE: ALL SURVEY REVISIONS, SURVEY AND INSTRUMENTATION ARE SHOWN ON SURVEY CONTROL MAP SHEETS.

THIS IS APPARENT RIGHT OF WAY. THIS IS NOT A BOUNDARY SURVEY.

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THIS IS APPARENT RIGHT OF WAY. THIS IS NOT A BOUNDARY SURVEY.

BENCHMARK: 100. BRIDGE DECK IN CONCRETE, LOCATED AT THE INTERSECTION OF FM 359 AND FM 359. ELEVATION: 112.87 (NAD83).

PAVING DRIVE DR. AND G.L.W.S. CROSSING DR.

ELEVATION: 112.87 (NAD83)

AMANI ENGINEERING, INC.  
1000 SOUTH WEST RAILWAY  
SUITE 600  
DALLAS, TEXAS 75204  
TEL: (214) 270-5700  
TBE: (214) 270-5700

DESIGNED BY: AMANI  
CHECKED BY: MU

INTERIM REVIEW ONLY  
DO NOT REPRODUCE OR REUSE  
FOR OTHER PROJECTS OR PURPOSES  
WITHOUT THE WRITTEN CONSENT OF AMANI ENGINEERING, INC.

WILLIAM H. BEAVER II  
REGISTERED PROFESSIONAL SURVEYOR  
NO. 2014  
EXPIRES: 06/30/2022

FOR T BEND COUNTY  
ENGINEERING DEPARTMENT

FULSHEAR-GASTON RD.  
FROM FM 723 TO FM 359

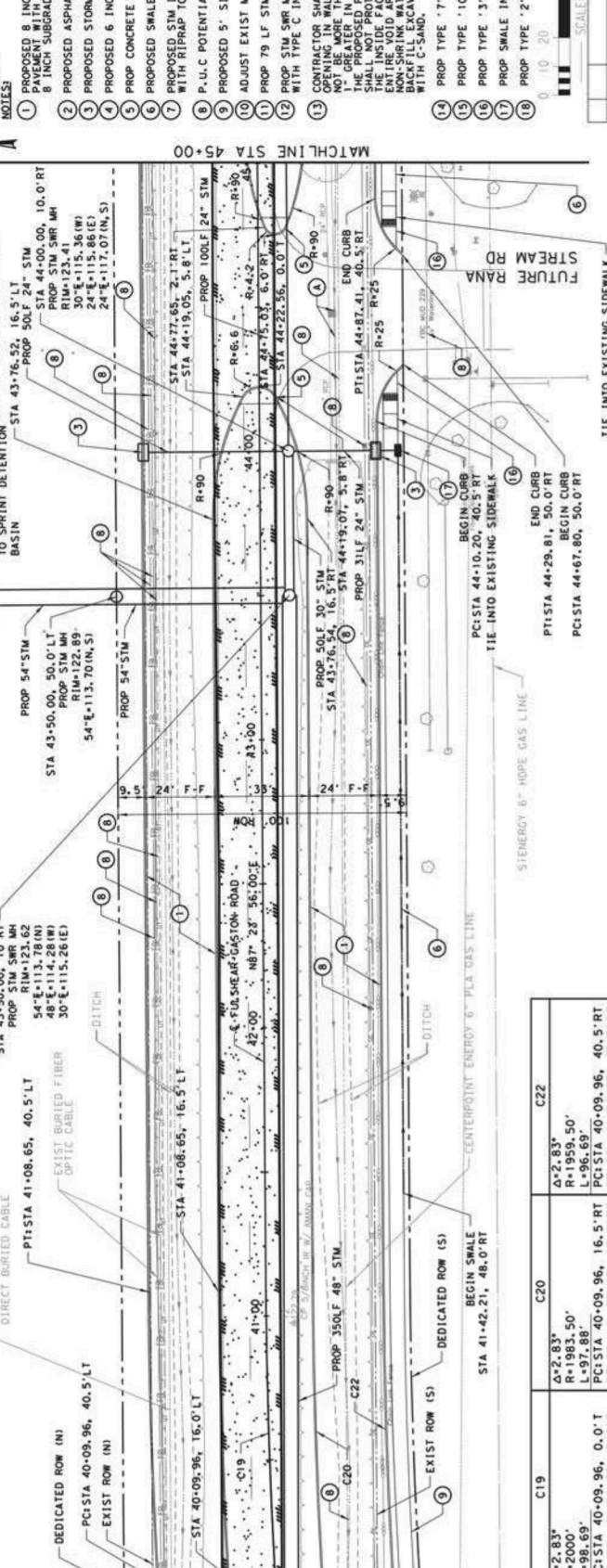
R.O.W. MAP  
SHEET 3 OF 6

PROJECT NO.:  
FORT BEND COUNTY PM  
DATE: 08-02-22

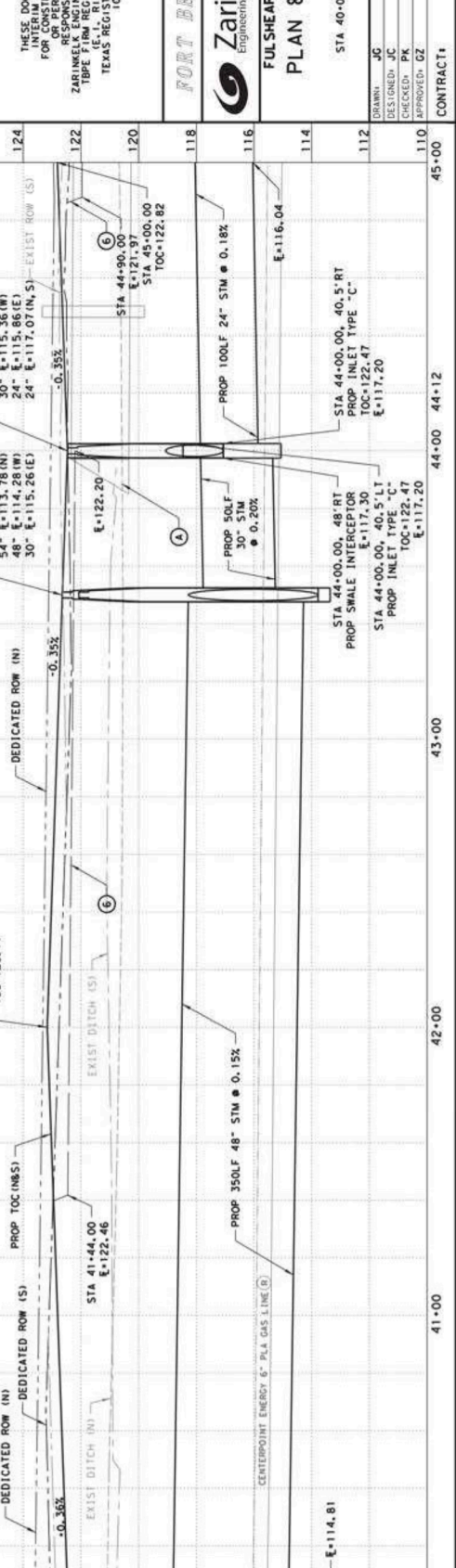
SHEET NO.:  
15



Location of Extended survey



Station	Notes
40+00	Matchline STA 40+00
41+00	Matchline STA 41+00
42+00	Matchline STA 42+00
43+00	Matchline STA 43+00
44+00	Matchline STA 44+00
45+00	Matchline STA 45+00



- 1 PROPOSED 48" REINFORCED CONCRETE MANHOLE WITH 8" INCH CURB OVER 8" INCH SUBGRADE.
- 2 PROPOSED ASPHALT TRANSITION PAVEMENT.
- 3 PROPOSED STORM INLET TYPE C2
- 4 PROPOSED 6" CONC. CURB
- 5 PROPOSED CONCRETE MEDIAN NOSE.
- 6 PROPOSED SWALE @ 0.1%
- 7 PROPOSED STORM INLET MODIFIED TYPE C2 WITH RIFRAP TO ROW LIMITS.
- 8 P-U-C POTENTIAL UTILITY CONFLICT.
- 9 PROPOSED 5' SIDEWALK.
- 10 ADJUST EXIST MANHOLE TO PROP GRADE.
- 11 PROP 79 LF 24" STIM LATERAL-24" PIPE.
- 12 PROP STIM SWR MH ON TOP OF EXIST RCB WITH TYPE C INLET.
- 13 CONTRACTOR SHALL USE CARE TO MAKE SURE ALL OF RCB OPENING SHALL BE GREATER IN OUTSIDE DIAMETER OF THE PROPOSED PIPE. PROPOSED PIPE SHALL BE SET IN THE MIDDLE OF THE ENTIRE VOID AROUND PIPE WITH BACKFILLING AND PROPER GRADING WITH C-SAND.
- 14 PROP TYPE '7' RAMP
- 15 PROP TYPE '10' RAMP
- 16 PROP TYPE '13' RAMP
- 17 PROP SWALE INTERCEPTOR
- 18 PROP TYPE '2' RAMP

NO. DATE REVISION APPROVED

SCALE: H=40'-1" V=4'-1" H

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT FOR CONSTRUCTION. THE DESIGNER'S RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED IS LIMITED TO THE INFORMATION PROVIDED. ZARINKEL ENGINEERING SERVICES, INC. (E.L. RICE MOORE), P.E. TEXAS REGISTRATION NO. 1666591 10/23/2023

**FORT BEND COUNTY**

**Zarinkel**  
Engineering Services, Inc.  
477 CALAHEEN ST  
Houston, Texas 77002  
Phone: 281-282-2465  
Fax: 281-282-2465  
www.zarinkel.com

**FULSHEAR-GASTON ROAD**

**PLAN & PROFILE**

STA 40+00 TO STA 45+00

SHEET 7 OF 14

DRAWN: JC HORIZ. SCALE: 1"=40'

DESIGNED: JC VERT. SCALE: 1"=4'

CHECKED: PK DATE: 10/23/2023

APPROVED: GZ SHEET NO: 35

CONTRACT: SECTION