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

(Evergreen Side Roads– Project No. 20225x pursuant to SOQ 14-025)

THIS SECOND AMENDMENT (“Second Amendment”) is entered into by and between Fort Bend County, Texas (“County”), a political subdivision of the state of Texas, and HR Green, Inc. (“Contractor”), a Texas corporation. County and Contractor are hereinafter collectively referred to as the “Parties” and each individually a “Party.”

WHEREAS, the Parties previously entered into that certain Agreement for Professional Engineering Services on February 7, 2023 (the “Agreement”) for roadway improvements in Magnolia Place along Evergreen Street, California Street, and Post Oak Street under Mobility Bond Project No. 20225x pursuant to SOQ 14-025; and

WHEREAS, the Agreement was subsequently amended on April 9, 2024 (the “First Amendment”); and

WHEREAS, by execution of this Second Amendment, the Parties desire to amend the Agreement to provide for additional services by Contractor, to increase the total Maximum Compensation for the completion of such services, and to otherwise ratify and confirm all the terms and conditions as set forth therein.

NOW, THEREFORE, in consideration of the foregoing, the Parties do mutually agree that the Agreement between the Parties is hereby amended as follows:

1. **Scope of Services.** County shall pay Contractor an additional Five Hundred Seventy Thousand Five Hundred Seventy and 00/100 Dollars (\$570,570.00) for the performance and completion of additional services provided in the Contractor's Proposal dated March 10, 2025, attached hereto as Exhibit "A-2" (the "Services") and incorporated by reference for all intents and purposes.
2. **Limit of Appropriation.** Contractor understands and agrees that the Maximum Compensation payable to Contractor for Services rendered under this Agreement is hereby increased to an amount not to exceed Two Million Seventy-Four Thousand Four Hundred Eighty-Eight and 82/100 Dollars (\$2,074,488.82) authorized as follows:

\$1,242,371.82 under the Agreement; and  
\$261,547.00 under the First Amendment; and  
\$570,570.00 under this Second Amendment.

In no event shall the amount paid by County under this Agreement, as amended, exceed the Maximum Compensation without a County approved change order. Contractor clearly understands and agrees, such understanding and agreement being of the absolute essence of this Agreement, as amended, that County shall have available the total maximum sum of \$2,074,488.82 specifically allocated to fully discharge any and all liabilities County may incur under the Agreement, as amended.

Contractor does further understand and agree, said understanding and agreement also being of the absolute essence of the Agreement, as amended, that the total Maximum Compensation that Contractor may become entitled to and the total maximum sum that County may become liable to pay to Contractor under the Agreement, as amended, shall not under any conditions, circumstances, or interpretations thereof exceed \$2,074,488.82.

3. **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.
4. **Recitals.** The recitals set forth above are incorporated herein by reference and made a part of the Agreement, as amended.
5. **Modifications and Conflict.** Except as modified herein, the Agreement shall remain in full force and effect and has not been otherwise modified or amended. If there is a conflict among documents that make up the Agreement, this Second Amendment shall prevail with regard to the conflict.
6. **Certification.** By his or her signature below, each signatory individual certifies that he or she is the properly authorized person or officer of the applicable Party hereto and has the requisite authority necessary to execute this Second Amendment on behalf of such Party, and each Party hereby certifies to the other that it has obtained the appropriate approvals or authorizations from its governing body as required by law.

**{Execution Page Follows}**

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**FORT BEND COUNTY, TEXAS**

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

\_\_\_\_\_  
Date

ATTEST:

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

**HR GREEN, INC.**

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

\_\_\_\_\_  
Muhammad Ali  
Authorized Agent- Printed Name

\_\_\_\_\_  
Practice Leader  
Title

\_\_\_\_\_  
05/12/2025  
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 the Fort Bend County under this Agreement.

\_\_\_\_\_  
Robert E. Sturdivant, County Auditor

i:\agreements\2025 agreements\engineering\hr green, inc. (23-eng-100444-a2)\second amendment to agreement -hr green.docx - knm

# **EXHIBIT A-2**

(Scope of Work Follows Behind)



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Houston, TX 77042  
**Main** 713.965.9996 + **Fax** 713.965.0044  
▶ [HRGREEN.COM](http://HRGREEN.COM)

Mr. Gabriel Odreman, PE  
1160 Dairy Ashford, Suite 500  
Houston, TX 77079

March 10, 2025

RE: Request for Additional Funds: 1. Drainage Study for Comprehensive Model of Evergreen Street and its Side Streets, 2. Mustang Bayou Survey and Investigation of Septic Field Locations, 3. Waterline System Design, 4. Prepare Four independent Bid Packages for Construction.

Dear Mr. Odreman:

HR Green respectfully submits this supplemental proposal to request additional funds to finalize the Drainage Study, obtain additional survey along Mustang Bayou for Linden St and Dallas St outfalls, and investigate locations of existing septic fields on properties where ROW is to be acquired.

As discussed in our meeting, while completing the preliminary design of the Evergreen Side Roads, HR Green identified that roadway drainage from these streets will drain to the Evergreen Street to the east and California Street to the west. Currently Gradient Engineering is designing the reconstruction of Evergreen Street and Cobb Fendley is designing the reconstruction of California Street. We conducted coordination meetings with both design teams and developed preliminary design drainage flows from the Evergreen Side Roads to be incorporated in the design of Evergreen Street and California Street.

Due to the complex relationship within the drainage of the three projects, additional coordination and development of combined H&H Models will be required. This will combine the drainage design from Gradient Engineering for Evergreen Street with the Evergreen Side Roads and provide those results to Cobb Fendley for design of the proposed detention pond.

In addition to the effort for drainage modeling, this supplemental proposal includes efforts to address comments from Fort Bend County that were made during the PER meeting for the Evergreen Side Roads project. The two comments were in regard to **identifying septic fields within the project area and altering the proposed drainage on Linden St and W Dallas St to outfall directly to Mustang Bayou**. This includes effort by the surveyor (MBCO) to identify and locate septic fields within properties where ROW is proposed to be acquired, and to obtain survey along Mustang Bayou where HR Green is proposing to outfall the drainage along Linden St and W Dallas St. In addition to the work to be performed by MBCO this proposal includes the work by HR Green to design and develop plan details for the new outfall locations, determine drainage easement needs, and coordinate with the surveyor on obtaining the locations of the septic fields and additional survey along Mustang Bayou.

Furthermore, the County has requested that a waterline design be incorporated into the design of the associated streets as the majority of those street currently do not have a municipal water connection. The proposal also includes preparing three additional independent Bid Packages for the construction of the Evergreen Side Streets (an exhibit is attached for the streets for each Bid Package).

This proposal presents scope of services and proposed fee for additional work completed previously and additional work to be completed.



## SCOPE OF SERVICES

### **Project Coordination:**

1. Additional coordination and status meetings with GEC: Project Leads (Olivas and Crump) conducting additional meetings with GEC project team regarding drainage elements with Cobb-Fendley and Gradient.
2. Additional Coordination meetings with Cobb-Fendley: Project Leads (Olivas and Crump) conducting meetings with Cobb-Fendley regarding drainage from Evergreen Side Roads project into the California Street project area. Additional coordination with Cobb-Fendley will be needed to coordinate street and drainage tie-ins at the intersection of Evergreen Side roads and California St.
3. Additional Coordination meetings with Gradient: Project Leads (Olivas and Crump) conducting meetings with Gradient regarding drainage from Evergreen Side Roads project into the Evergreen Street project area. Additional coordination with Gradient will be needed to coordinate street and storm sewer tie-ins at the various intersections of the Evergreen Side Roads with Evergreen Street.
4. Additional Coordination meetings with AIG: Project Leads (Crump and Cunningham) attended meeting with Fort Bend County and the leads of the other adjacent projects within the Fresno area to discuss impacts on the projects due to the proposed regional detention pond along Mustang Bayou. HR Green is coordinating with AIG, the consultant responsible for Evergreen St Segment 2, to determine the impacts to drainage on theirs and the projects to the West of Mustang Bayou.
5. Attend PER meeting for California Street at FBC: Project Leads (Olivas and Crump) attended the PER meeting for the California Street reconstruction project managed by Cobb Fendley at the FBC Engineering office.
6. Update Project Schedule: Schedule for the Evergreen Side Roads project will need to be revised for the additional drainage work outlined in the "Prepare Drainage Study" segment of this proposal.
7. Coordinate with CenterPoint on Street Light: Provide them exhibits for various streets as needed for them to develop the street lighting plans.
8. Additional coordination meetings with MBCO for survey. (Check boundary files): Additional meetings between HR Green and MBCO to address issues with boundary work and property overlaps in the survey.
9. Additional Coordination Meetings with Fort Bend County and Tetra Tech: Meeting with Tetra Tech and Fort Bend County to address issues MBCO is finding with overlapping property boundary information in the survey. Additional coordination and status meetings with Tetrattech will be needed with the additional work to change the outfalls in the Post Oak Blvd area of the project and if it is determined septic systems exist within the proposed ROW. Includes teams meetings, email correspondence, and reporting.

### **Mustang Bayou Drainage Easement**

10. Coordinate with Surveyor to Establish Right of Way for Drainage Easement: HR Green will coordinate with the surveyor (MBCO) to establish ROW and Drainage Easement needs to outfall the Linden St and W Dallas St areas directly to Mustang Bayou. HR Green will also be coordinating with the surveyor as they obtain the information for septic systems within the project area.
11. Develop preliminary ROW Exhibit: HR Green will develop a ROW Exhibit showing where Drainage Easements are proposed to be acquired,



12. Prepare additional Quantities and Construction Cost Estimate: The addition of outfall structures from Linden St and W Dallas St to Mustang Bayou will require additional effort to develop the quantity takeoffs and construction cost estimate for the new outfalls.
13. Develop Outfall Plan and Profile Sheets (Plan & Profile) (3 sheets): Plan and profile sheets will be developed for the new outfall structures at Linden St and Dallas St.
14. Develop Proposed Typical Section: Develop proposed typical section for outfall structure showing location and width of proposed drainage easement, pipe or drainage channel geometry, and grading of existing ground within the proposed drainage easement.
15. Establish Preliminary Cross Sections and Earthwork: Develop cross sections along proposed drainage outfalls and create quantity takeoffs for earthwork along the proposed drainage pipe or channel.
16. Field Visits/Data Collection for Base Map Preparation (Check/Verify Topo Survey): HR Green will perform field visits in order to check and verify topo and additional work performed by surveyor as outlined in the proposal.
17. Develop Project Alignment for Dallas and Linden Outfalls to Mustang Bayou: Determine location of proposed outfalls for W Dallas and Linden St and develop horizontal alignments for both outfall structures or drainage channels.
18. Develop Proposed Profile Grade Line for Dallas and Linden Outfalls to Mustang Bayou: Design vertical profiles for the two proposed outfalls structures or drainage channels to Dallas and Linden St.
19. Identify and Add or Develop Necessary Standard Details: Determine which standard details, such as standards for pipe/box culverts and end treatments to include in the plans.
20. Develop sheets for SW3P at the W Dallas and Linden St Outfalls: Determine the required erosion control measures needed for the proposed Outfalls to Mustang Bayou and develop needed SW3P layouts and details.
21. Identify any Potential Conflicts with Existing Facilities and Utilities: Identify what public and private utilities existing in the area of the proposed outfalls along W Dallas and Linden St and determine if conflicts exist with the proposed structures.
22. Update Utility Conflict Matrix: Update the utility conflict matrix with any utilities and utilities found to be in conflict with the proposed drainage structures.
23. Perform QAQC for PER Phase: Additional QAQC will need to be performed for the additional work and designs for the addition of the proposed outfall drainage structures.
24. Update Preliminary Engineering Report (PER): Update PER based on changes to drainage outfalls along W Dallas St and Linden St and the septic information obtained by the surveyor.
25. Field visit to talk with property owners to obtain right-of-entry: A field visit will be made to talk with property owners about the additional survey along Mustang Bayou. This will need to be done in order to expedite the survey as sending letters will take two weeks to obtain ROE.

#### **Develop three additional Bid Packages**

26. Prepare additional title sheets
27. Prepare additional index of sheets
28. Prepare three additional construction cost estimates for each Package
29. Prepare three additional Bid Manual Documents
30. Attend three additional Pre-Bid Meetings
31. Attend three additional Pre-Construction Meetings and substantial completion meetings



- 32. Assist with additional RFI's and Submittal Reviews
- 33. Assist with additional Record Drawings
- 34. Assist with additional Construction Closeout

**Prepare Drainage Study**

**Completed Previously:**

- 8.1 Project Coordination/Meetings with Cobb Fendley (Areas Draining West - California Street): Included Teams Meetings, email correspondence, and reporting.
- 8.2 Project Coordination/Meetings with Gradient (Areas Draining East - Evergreen Street): Included Teams Meetings, email correspondence, and reporting.
- 8.3 Site Survey Reviews: Included multiple reviews and time spent. Review final MBCO survey, verify existing drainage infrastructure, and revise model and design per updates.
- 8.4 Flow Calculations for Cobb Fendley and Gradient Projects: Developed flow calculations for Cobb Fendley and Gradient using current survey data and proposed design. Additional effort to delineate drainage areas, calculate existing and proposed flows for 3, 5, 10, and 100-yr storm events to match Cobb Fendley and Gradient methodologies, and calculate mitigation volumes from our proposed improvements to be incorporated into the Cobb Fendley and Gradient projects.

**To Be Completed (Combine HR Green and Gradient Models):**

- 8.5 Project Coordination/Meetings with Cobb Fendley: Assumes four (4) 30-minute Teams Meetings to coordinate the hydrographs with Cobb Fendley.
- 8.6 Project Coordination/Meetings with Gradient: Assumes eight (8) 30-minute Teams Meetings to coordinate the design and modeling with Gradient.
- 8.7 Project Coordination/Meetings with AIG/Huitt-Zollars: Assumes four (4) 30-minute Teams Meetings to coordinate the design and modeling with AIG and Huitt-Zollars regarding the regional detention basin near Mustang Bayou and FM 521.
- 8.8 Coordinate Proposed Hydrographs with Cobb Fendley: Model HR Green and Gradient's drainage areas draining the west (to Cobb Fendley's proposed detention pond), optimize results, and submit the hydrographs to Cobb Fendley. Cobb Fendley will model our hydrographs and send revised tailwater elevation to HR Green. This will be considered as one iteration. Two (2) iterations between HR Green and Cobb Fendley are assumed.
- 8.9 Review Gradient Drainage Studies: Obtain the Gradient's Drainage Study and review for assumptions, methodologies, project benefits, recommended solution, and preliminary design.
- 8.10 Combine HR Green and Gradient H&H Models: Finalize the combination of the HR Green and Gradient models for areas draining to the east, including HR Green's project areas draining to Evergreen Street, Gradient's detention basin, and Gradient's trunk line storm sewer and ditches. Tasks include converting the model from PCSWMM to XPSWMM, identifying and addressing instabilities, revising hydraulic elements such as links and nodes to represent more realistic existing and proposed conditions using consistent and best modeling management practices, updating driveway/culvert modeling methodology, incorporate missing entrance and exit losses throughout the model, and correcting inflow and outflow imbalances.
- 8.11 H&H Modeling, Results Analysis, QA/QC, and Agency Coordination: Model the existing and proposed conditions of the combined model for the 5-year and 100-year storm events to show no impacts. Build and model regional detention basin on north side of Evergreen Street, approximately 1,000-ft west of Mustang Bayou. Connect into proposed storm sewer and/or ditches. Analyze the results of the

combined model and determine project benefits such as water level reductions for the Evergreen Street and the Side Streets drainage projects. When reviewing the existing topography and typical sections provided by Gradient, there are proposed roadside ditches in the design that are not modeled. The roadside ditches are necessary because the depth limitations result in the proposed road elevation being higher than the north (and sometimes south) ROW elevation. To address this, we will determine the proposed storm sewer, pavement, and roadside ditch configurations. Quality assurance/quality control (QA/QC) checks for each storm event in existing and proposed conditions will be performed and H&H model comments from Fort Bend County will be addressed. It is assumed there will be three (3) iterations of model review and revisions.

- 8.12 H&H Report Revisions: HR Green originally scoped one H&H Report to cover all three areas of the Side Streets Project, the Dallas and Linden Streets area, the Evergreen Side Streets area, and the California Side Streets area. We were subsequently asked to separate the report into two reports. The first would cover the Dallas and Linden Streets area, and the second would cover the Evergreen Side Streets and California Side Streets areas. Only the first report for Dallas and Linden Streets has been submitted.

Gradient also submitted a report covering Evergreen Street Segment 1 from California Street to Mustang Bayou which will be reviewed by HR Green (Task 8.9).

HR Green was then asked to submit all Side Streets drainage analyses into one report as originally scoped. Upon review of the Gradient models, it is our recommendation to include their area into the report as well. The revised report will be a comprehensive study of Dallas and Linden Streets area, the Evergreen Side Streets area, the California Side Streets area, and Evergreen Street Segment 1. The report will include analysis of the proposed storm sewer, pavement, roadside ditch, and detention modeling listed in Tasks 8.10-8.11.

This task does not include updates to the California Street Drainage Analysis performed by Cobb Fendley.

- 8.13 Dallas Street and Linden Street Conveyance and Outfall Revisions: Develop design and conveyance calculations for Dallas Street and Linden Street with existing incomplete ROW data. An additional alternative to outfall directly to Mustang Bayou from Dallas Street and Linden Street is being considered to improve conveyance.

Dallas Street is currently proposing roadside ditch improvements and will be converted to a curb and gutter drainage system. The change to the street design will require additional calculations to improve the drainage system along the street. We currently do not have a model of this area and will be required to develop one to model the proposed conditions storm sewer pipes for sizing and no adverse impact.

Linden Street is currently proposing to outfall west to Post Oak Blvd, and with the addition of a storm sewer outfall to the east to Mustang Bayou, the conveyance will require additional calculations to improve the drainage system along the street. We currently do not have a model of this area and will be required to develop one to model the proposed conditions storm sewer pipes for sizing and no adverse impact. Coordination with Huitt-Zollars and Fort Bend County's regional detention basin model at Mustang Bayou and FM 521 may be used to prove no adverse impacts.

- 8.14 Mustang Bayou Modeling: HR Green recently received a HEC-RAS 1D/2D model from the County that modeled a regional detention basin downstream of our project. The model shows that there are water surface elevation reductions in Mustang Bayou at Evergreen Street, giving us the ability to release more developed flow from the project area into the Bayou. We will add proposed flows from

the Evergreen and Evergreen Side Streets projects to the Mustang Bayou model to determine how much the improvements raise the water surface elevation. If there is still available capacity, we will reduce the detention provided on the project until we show no impact to the water surface elevations on Mustang Bayou at Evergreen Street.

- 8.15 Model California Detention South Inflows to Evergreen Street Trunkline: Proposed flows from Evergreen Street and Side Streets 1, 8, and 9 are currently directed to the California Street Detention Basin. The additional flows from these areas increased the detention basin's size significantly. We will review the viability of re-directing the South Inflows (Street 1 and the portion of Evergreen Street) to Mustang Bayou. The North Inflows (Streets 8 and 9) will continue to the California Street Detention Basin. We will submit the hydrographs of the reduced flows to Cobb Fendley for them to import and run in their model. We will review the impact of the additional flow to Mustang Bayou and required detention volume to mitigate additional proposed flow. We will consider the depth requirements and constructability of further extending the Evergreen Street trunkline to the west.

**Waterline Design (Additional effort beyond currently approved scope)**

1. Project Meetings: HR Green staff will coordinate and attend one kick off meeting and up to two progress meetings with each bid package specific to the waterline design. HR Green will also assist in developing the meeting minutes as applicable for those meetings.
2. Internal QA/QC: HR Green staff will coordinate and perform an internal QA/QC specific to the waterline design packages.
3. Site Meeting/Field Visit: HR Green staff will coordinate and visit the site (once) to confirm what was included in the survey and as-built information. One site visit is anticipated for the overall project (all bid packages).
4. Data Collection/Review: HR Green staff will coordinate appropriately to obtain available data for review.
5. Development of Design Basis Report/Tech Memo: HR Green staff will coordinate to develop a design basis record or technical memo to document the design and for use in soliciting approval from the reviewing agencies.
6. Specification Development: HR Green staff will coordinate and develop project specification related to the waterline design for use in soliciting bid.
7. OPCC: HR Green staff will update the Engineer's opinion of probable construction cost (OPCC) per submittal per design package to incorporate the waterline design.
8. Agency Coordination and Approvals: HR Green staff will coordinate and attend meetings with the Water District, County, City of Houston, TCEQ and private utility company specifically for the review and approval of the waterline design.
9. Utility Coordination and Approvals: HR Green staff will coordinate with and send submittals to private utility company specifically for the review and approval of the waterline design.
10. Assist with Bid RFIs and Addenda specific to the waterline design.
11. Assist with additional RFI's and Submittal Reviews during construction specific to the waterline design.
12. Assist with additional Record Drawings after completion of construction specific to the waterline design.



Mr. Gabriel Odreman, PE  
Supplemental Proposal for Fresno  
Improvements  
March 7, 2025

**Phase 1: Preliminary Phase Services (Lump Sum Service)**

|                                                                                       |             |
|---------------------------------------------------------------------------------------|-------------|
| Plans Preparation with Drainage Easement to Mustang Bayou<br>and Project Coordination | \$96,930.00 |
|---------------------------------------------------------------------------------------|-------------|

|                        |              |
|------------------------|--------------|
| Prepare Drainage Study | \$107,355.00 |
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| <b>Phase 2: Final Design (Lump Sum Services)</b> | <b>\$40,880.00</b> |
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| <b>Total Services</b> | <b>\$245,165.00</b> |
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**Additional Services**

|                                           |                     |
|-------------------------------------------|---------------------|
| <b>Septic System Investigation (MBCO)</b> | <b>\$109,830.00</b> |
|-------------------------------------------|---------------------|

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|------------------------------------------|--------------------|
| <b>Survey along Mustang Bayou (MBCO)</b> | <b>\$40,180.00</b> |
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|------------------------------------|---------------------|
| <b>Waterline Design (HR Green)</b> | <b>\$175,395.00</b> |
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| <b>Total Additional Services</b> | <b>\$325,405.00</b> |
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|-------------------------------|---------------------|
| <b>Total Engineering Cost</b> | <b>\$570,570.00</b> |
|-------------------------------|---------------------|

HR Green appreciates the opportunity to submit this proposal and we look forward to working with you and your staff on this important project. Please call should you have any questions or comments.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jesus Olivas'.

Jesus Olivas, P.E.  
Project Manager



PHASE 1: PRELIMINARY DESIGN PHASE LEVEL OF EFFORT (LOE) FEE ESTIMATE - DRAINAGE STUDY SUPPLEMENTAL  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY

LUMP SUM  
SERVICE

| DURATION FOR PRELIMINARY DESIGN PHASE BASIC SERVICES = 90 DAYS                                                |                                     |                              |                    | Jesus, Steve Andrew, Scott Lubana, Vicky ennis/Celia/Layla |                   |                           |                    |                     |             |            |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------|--------------------|------------------------------------------------------------|-------------------|---------------------------|--------------------|---------------------|-------------|------------|
|                                                                                                               | Principal /<br>Managing<br>Director | Senior<br>Project<br>Manager | Senior<br>Engineer | Project<br>Engineer                                        | Staff<br>Engineer | Senior CADD<br>Technician | CADD<br>Technician | Admin /<br>Clerical | Total Hours | Total Cost |
| HOURLY RATE INCLUDING MULTIPLIER                                                                              | \$ 350                              | \$ 275                       | \$ 195             | \$ 180                                                     | \$ 150            | \$ 155                    | \$ 150             | \$ 130              |             |            |
| 1. Plans Preparation with Drainage Easement to Mustang Bayou and Project Coordination for Package Preparation |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| 1.1 Additional Coordination and Status Meetings with GEC                                                      |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.2 Additional Coordination meetings with Cobb-Fendley                                                        |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.3 Additional Coordination meetings with Gradient                                                            |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.4 Additional Coordination meetings with AIG                                                                 |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.5 Attend PER meeting for California Street at FBC                                                           |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.6 Update Project Schedule                                                                                   |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.7 Coordination with CenterPoint for Street Lights (Exhibits)                                                |                                     | 1                            | 8                  |                                                            | 8                 |                           |                    |                     | 17          | \$ 3,035   |
| 1.8 Additional coordination meetings with MBCO for survey. (Check boundary overlap)                           |                                     | 2                            | 6                  |                                                            |                   |                           |                    |                     | 8           | \$ 1,720   |
| 1.9 Additional Coordination Meetings with Fort Bend County and Tetra Tech                                     |                                     | 2                            | 24                 |                                                            |                   |                           |                    |                     | 26          | \$ 5,230   |
|                                                                                                               |                                     |                              |                    |                                                            |                   | Sub-Total                 |                    |                     | 99          | \$ 20,305  |
| MUSTANG BAYOU DRAINAGE EASEMENT                                                                               |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| 1.10 Coordinate with Surveyor to establish Right of Way for Drainage Easement                                 |                                     | 2                            | 8                  |                                                            |                   |                           |                    |                     | 10          | \$ 2,110   |
| 1.11 Develop preliminary ROW Exhibit                                                                          |                                     |                              | 1                  |                                                            | 4                 | 4                         |                    |                     | 9           | \$ 1,415   |
| 1.12 Prepare additional Quantities and Construction Cost Estimate                                             |                                     |                              |                    | 1                                                          | 4                 | 4                         |                    |                     | 9           | \$ 1,400   |
| 1.13 Develop Outfall Plan and Profile Sheets (Plan & Profile) (3 sheets)                                      |                                     | 4                            | 8                  | 10                                                         | 10                | 20                        |                    |                     | 52          | \$ 9,060   |
| 1.14 Develop Proposed Typical Section (1 sheet)                                                               |                                     | 1                            | 1                  | 1                                                          | 1                 | 4                         | 12                 |                     | 20          | \$ 3,220   |
| 1.15 Establish Preliminary Cross Sections and Earthwork (every 100') (5 sheets)                               |                                     | 2                            | 10                 | 10                                                         | 20                |                           |                    |                     | 42          | \$ 7,300   |
| 1.16 Field Visits/Data Collection for Base Map Preparation (check/verify topo survey, etc.)                   |                                     |                              | 4                  |                                                            | 4                 |                           |                    |                     | 8           | \$ 1,380   |
| 1.17 Develop Project Alignment for Dallas and Linden Outfalls to Mustang Bayou                                |                                     | 1                            | 2                  | 4                                                          | 2                 |                           |                    |                     | 9           | \$ 1,685   |
| 1.18 Develop Proposed Profile Grade Line for Dallas and Linden Outfalls to Mustang Bayou                      |                                     | 1                            | 2                  | 4                                                          | 2                 |                           |                    |                     | 9           | \$ 1,685   |
| 1.19 Identify and add necessary standard details                                                              |                                     |                              | 1                  |                                                            |                   | 2                         | 2                  |                     | 5           | \$ 805     |
| 1.20 Develop sheets for SW3P at the Dallas and Linden St Outfalls (3 sheets)                                  |                                     | 1                            | 4                  | 8                                                          | 8                 | 16                        |                    |                     | 37          | \$ 6,175   |
| 1.21 Identify any potential conflicts with existing facilities and utilities                                  |                                     |                              | 1                  |                                                            | 2                 |                           |                    |                     | 3           | \$ 495     |
| 1.22 Update Utility Conflict Matrix                                                                           |                                     |                              | 1                  |                                                            | 2                 |                           |                    |                     | 3           | \$ 495     |
| 1.23 Perform QAQC for PER phase                                                                               | 1                                   | 4                            |                    |                                                            |                   |                           |                    |                     | 5           | \$ 1,450   |
| 1.24 Update Preliminary Engineering Report (PER)                                                              |                                     | 4                            | 8                  | 16                                                         | 16                |                           |                    |                     | 44          | \$ 7,940   |
| 1.25 Coordinate with MBCO to Meet with Property Owners for Right-of-Entry to Survey Mustang Bayou             |                                     |                              |                    |                                                            | 8                 |                           |                    |                     | 8           | \$ 1,200   |
|                                                                                                               |                                     |                              |                    |                                                            |                   | Sub-Total                 |                    |                     | 273         | \$ 47,815  |
| BID PACKAGE PREPARATION (3 ADDITIONAL BID-PACKAGES)                                                           |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| 1.26 Prepare additional title sheets (2 sheets)                                                               |                                     | 1                            | 2                  |                                                            | 4                 |                           |                    |                     | 7           | \$ 1,265   |
| 1.27 Prepare additional index of sheets (2 sheets)                                                            |                                     | 1                            | 2                  |                                                            | 4                 |                           |                    |                     | 7           | \$ 1,265   |
| 1.28 Prepare two additional construction cost estimates for each Package                                      |                                     | 2                            | 4                  |                                                            | 8                 |                           |                    |                     | 14          | \$ 2,530   |
| 1.29 Prepare two additional Bid Manual Documents                                                              |                                     | 2                            | 8                  | 8                                                          | 8                 |                           |                    |                     | 26          | \$ 4,750   |
| 1.30 Attend two additional Pre-Bid Meetings                                                                   |                                     | 2                            | 8                  | 8                                                          | 8                 |                           |                    |                     | 26          | \$ 4,750   |
| 1.31 Attend two additional Pre-Construction Meetings                                                          |                                     | 2                            | 8                  | 8                                                          | 8                 |                           |                    |                     | 26          | \$ 4,750   |
| 1.32 Assist with additional RFIs and Submittal Reviews                                                        |                                     | 2                            | 8                  | 8                                                          | 8                 |                           |                    |                     | 26          | \$ 4,750   |
| 1.33 Assist with additional Record Drawings                                                                   |                                     | 2                            | 8                  | 8                                                          | 8                 |                           |                    |                     | 26          | \$ 4,750   |
|                                                                                                               |                                     |                              |                    |                                                            |                   | Sub-Total                 |                    |                     | 158         | \$ 28,810  |
| Subtotal Hours                                                                                                | 1                                   | 51                           | 173                | 94                                                         | 147               | 50                        | 14                 | 0                   | 530         | \$ 96,930  |
| Subtotal Fee                                                                                                  | \$ 350                              | \$ 14,025                    | \$ 33,735          | \$ 16,920                                                  | \$ 22,050         | \$ 7,750                  | \$ 2,100           | \$ -                |             | \$ 96,930  |
| 8. Prepare Drainage Study (Scott)                                                                             |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| Additional Completed Previously:                                                                              |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| 8.1 Project Coordination/Meetings with Cobb Fendley (Areas Draining West - California Street)                 |                                     | 4                            | 16                 |                                                            | 16                |                           |                    |                     | 36          | \$ 6,620   |
| 8.2 Project Coordination/Meetings with Gradient (Areas Draining East - Evergreen Street)                      |                                     | 4                            | 12                 |                                                            | 12                |                           |                    |                     | 28          | \$ 5,240   |
| 8.3 Site Survey Reviews                                                                                       |                                     |                              | 2                  |                                                            | 5                 |                           |                    |                     | 7           | \$ 1,140   |
| 8.4 Flow Calculations for Cobb Fendley and Gradient Projects                                                  |                                     |                              | 4                  |                                                            | 12                |                           |                    |                     | 16          | \$ 2,580   |
| Subtotal Additional Completed Previously:                                                                     | 0                                   | 8                            | 34                 | 0                                                          | 45                | 0                         | 0                  | 0                   | 87          | \$ 15,580  |
| Additional To Be Completed: (Combine HR Green and Gradient Models)                                            |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| 8.5 Project Coordination/Meetings with Cobb Fendley                                                           |                                     | 1                            | 2                  | 2                                                          |                   |                           |                    |                     | 5           | \$ 1,025   |
| 8.6 Project Coordination/Meetings with Gradient                                                               |                                     | 2                            | 4                  | 4                                                          |                   |                           |                    |                     | 10          | \$ 2,050   |
| 8.7 Project Coordination/Meetings with AIG/Huitt Zollars                                                      |                                     | 2                            | 2                  | 2                                                          |                   |                           |                    |                     | 6           | \$ 1,300   |
| 8.8 Coordinate Proposed Hydrographs with Cobb Fendley                                                         |                                     |                              | 2                  | 8                                                          | 16                |                           |                    |                     | 26          | \$ 4,230   |
| 8.9 Review Gradient's Drainage Study                                                                          |                                     |                              |                    | 2                                                          | 6                 |                           |                    |                     | 8           | \$ 1,260   |
| 8.10 Combine HR Green and Gradient H&H Models                                                                 |                                     |                              | 4                  | 16                                                         | 40                |                           |                    |                     | 60          | \$ 9,660   |
| 8.11 H&H Modeling, Results Analysis, QA/QC, and Agency Review Coordination                                    |                                     |                              | 20                 | 40                                                         | 100               |                           |                    |                     | 160         | \$ 26,100  |
| 8.12 H&H Report Revisions                                                                                     |                                     | 2                            | 16                 | 30                                                         | 60                |                           | 12                 |                     | 120         | \$ 19,870  |
| 8.13 Dallas Street and Linden Street Conveyance and Outfall Revisions                                         |                                     |                              | 8                  | 20                                                         | 40                |                           | 8                  |                     | 76          | \$ 12,360  |
| 8.14 Mustang Bayou Modeling                                                                                   |                                     |                              | 4                  | 16                                                         | 20                |                           |                    |                     | 40          | \$ 6,660   |
| 8.15 Model California Detention South Inflows to Evergreen Street Trunkline                                   |                                     |                              | 4                  | 16                                                         | 24                |                           |                    |                     | 44          | \$ 7,260   |
| Subtotal Additional To Be Completed:                                                                          | 0                                   | 7                            | 66                 | 156                                                        | 306               | 0                         | 20                 | 0                   | 555         | \$ 91,775  |
| Subtotal Hours                                                                                                | 0                                   | 15                           | 100                | 156                                                        | 351               | 0                         | 20                 | 0                   | 642         | \$ 107,355 |
| Subtotal Fee                                                                                                  | \$ -                                | \$ 4,125                     | \$ 19,500          | \$ 28,080                                                  | \$ 52,650         | \$ -                      | \$ 3,000           | \$ -                |             | \$ 107,355 |
|                                                                                                               |                                     |                              |                    |                                                            |                   |                           |                    |                     |             |            |
| TOTAL PHASE I BASIC SERVICES HOURS                                                                            | 1                                   | 66                           | 273                | 250                                                        | 498               | 50                        | 34                 | 0                   | 1172        |            |
| TOTAL PHASE I BASIC SERVICES FEES                                                                             | \$ 350                              | \$ 18,150                    | \$ 53,235          | \$ 45,000                                                  | \$ 74,700         | \$ 7,750                  | \$ 5,100           | \$ -                |             | \$ 204,285 |



PHASE 2: FINAL DESIGN PHASE LEVEL OF EFFORT (LOE) FEE ESTIMATE  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY

LUMP SUM  
SERVICE

DURATION SCHEDULE FOR BASIC SERVICES = 180 DAYS

|                                                                                                                                                                                                                                | Principal /<br>Managing<br>Director | Senior Project<br>Manager | Senior<br>Engineer | Project<br>Engineer | Staff<br>Engineer | Senior CADD<br>Technician | CADD<br>Technician | Admin /<br>Clerical | Total Hours | Total Cost  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------|--------------------|---------------------|-------------------|---------------------------|--------------------|---------------------|-------------|-------------|
| HOURLY RATE INCLUDING MULTIPLIER ( 3.00 )                                                                                                                                                                                      | \$ 350                              | \$ 275                    | \$ 195             | \$ 180              | \$ 150            | \$ 155                    | \$ 150             | \$ 130              |             |             |
| <b>2. PLAN SET DEVELOPMENT - GENERAL FRONT END DRAWINGS (Outfalls to Mustang Bayou)</b>                                                                                                                                        |                                     |                           |                    |                     |                   |                           |                    |                     |             |             |
| 2.6 Prepare Specification Table of Contents (Harris County Specs)                                                                                                                                                              |                                     |                           |                    | 4                   |                   |                           |                    |                     | 4           | \$ 720      |
| 2.7 Prepare engineers opinion of probable construction cost 70%, 95%, and 100%                                                                                                                                                 |                                     |                           |                    | 4                   |                   |                           |                    |                     | 4           | \$ 720      |
| 2.8 Prepare Bid Manual with documents and specifications at 70%, 95%, and 100% submittals                                                                                                                                      |                                     |                           |                    | 4                   |                   |                           |                    |                     | 4           | \$ 720      |
| 2.9 Prepare KMZ file to 70%, 95%, and 100% design with proposed ROW                                                                                                                                                            |                                     |                           |                    | 4                   |                   |                           |                    |                     | 4           | \$ 720      |
| Subtotal Hours                                                                                                                                                                                                                 | 0                                   | 0                         | 0                  | 16                  | 0                 | 0                         | 0                  | 0                   | 16          | \$ 2,880    |
| Subtotal Fee                                                                                                                                                                                                                   | \$ -                                | \$ -                      | \$ -               | \$ 2,880            | \$ -              | \$ -                      | \$ -               | \$ -                |             | \$ 2,880    |
| <b>3. DRAINAGE SHEETS (Outfalls to Mustang Bayou)</b>                                                                                                                                                                          |                                     |                           |                    |                     |                   |                           |                    |                     |             |             |
| 3.1 Overall Project Drainage Area Map (1 sheet)                                                                                                                                                                                |                                     |                           |                    |                     |                   | 4                         |                    |                     | 4           | \$ 620      |
| 3.2 Drainage System Map (9 sheets)                                                                                                                                                                                             |                                     |                           |                    | 8                   |                   | 4                         |                    |                     | 12          | \$ 2,060    |
| 3.3 Hydraulic Calculations for Storm Sewer (3 sheets)                                                                                                                                                                          |                                     |                           |                    | 8                   |                   | 4                         |                    |                     | 12          | \$ 2,060    |
| Subtotal Hours                                                                                                                                                                                                                 | 0                                   | 0                         | 0                  | 16                  | 0                 | 12                        | 0                  | 0                   | 28          | \$ 4,740    |
| Subtotal Fee                                                                                                                                                                                                                   | \$ -                                | \$ -                      | \$ -               | \$ 2,880            | \$ -              | \$ 1,860                  | \$ -               | \$ -                |             | \$ 4,740    |
| <b>4. TYPICAL SECTION SHEETS (Outfalls to Mustang Bayou)</b>                                                                                                                                                                   |                                     |                           |                    |                     |                   |                           |                    |                     |             |             |
| 4.2 Proposed Typical Sections (1 additional sheet for Dallas/Linden Outfalls)                                                                                                                                                  |                                     |                           | 1                  | 4                   |                   | 10                        |                    |                     | 15          | \$ 2,465    |
| Subtotal Hours                                                                                                                                                                                                                 | 0                                   | 0                         | 1                  | 4                   |                   | 10                        | 0                  | 0                   | 15          | \$ 2,465    |
| Subtotal Fee                                                                                                                                                                                                                   | \$ -                                | \$ -                      | \$ 195             | \$ 720              |                   | \$ 1,550                  | \$ -               | \$ -                |             | \$ 2,465    |
| <b>5. ROADWAY AND DRAINAGE PLAN &amp; PROFILES (Outfalls to Mustang Bayou)</b>                                                                                                                                                 |                                     |                           |                    |                     |                   |                           |                    |                     |             |             |
| 5.2 Roadway Plan and Profile Sheets (2 additional sheets for Dallas/Linden Outfalls) (500' each sheet) (Including all roadway features, alignment, profile, PC's, PT's, driveways, storm sewer, inlets, pipes, manholes, etc.) |                                     |                           | 4                  | 8                   |                   | 20                        |                    |                     | 32          | \$ 5,320    |
| 5.3 Prepare Horizontal Alignment Data sheets (2 sheet)                                                                                                                                                                         |                                     |                           | 4                  | 8                   |                   | 8                         |                    |                     | 20          | \$ 3,460    |
| 5.4 Design Storm Sewer System for each street (inlet locations, pipe sizes, HouStorm runs, Hydraulic Computations) (Dallas/Linden Outfalls)                                                                                    |                                     | 2                         | 4                  | 8                   | 8                 |                           |                    |                     | 22          | \$ 3,970    |
| 5.5 Roadway and Drainage Standard Drawings (2 sheets)                                                                                                                                                                          |                                     |                           |                    | 1                   |                   | 4                         | 4                  |                     | 9           | \$ 1,400    |
| 5.6 Prepare Quantity take-off Calculations (Dallas/Linden Outfalls)                                                                                                                                                            |                                     |                           |                    | 6                   |                   | 4                         |                    |                     | 10          | \$ 1,700    |
| Subtotal Hours                                                                                                                                                                                                                 | 0                                   | 2                         | 12                 | 31                  | 8                 | 36                        | 4                  | 0                   | 93          | \$ 15,850   |
| Subtotal Fee                                                                                                                                                                                                                   | \$ -                                | \$ 550                    | \$ 2,340           | \$ 5,580            | \$ 1,200          | \$ 5,580                  | \$ 600             | \$ -                |             | \$ 15,850   |
| <b>6. STORM WATER POLLUTION PREVENTION PLAN (SW3P) (Outfalls to Mustang Bayou)</b>                                                                                                                                             |                                     |                           |                    |                     |                   |                           |                    |                     |             |             |
| 6.1 Develop Plan Sheets Double Banked ( 2 Sheets 1000' each)                                                                                                                                                                   |                                     | 1                         | 4                  | 8                   | 8                 | 16                        |                    |                     | 37          | \$ 6,175    |
| Subtotal Hours                                                                                                                                                                                                                 | 0                                   | 1                         | 4                  | 8                   | 8                 | 16                        | 0                  | 0                   | 37          | \$ 6,175    |
| Subtotal Fee                                                                                                                                                                                                                   | \$ -                                | \$ 275                    | \$ 780             | \$ 1,440            | \$ 1,200          | \$ 2,480                  | \$ -               | \$ -                |             | \$ 6,175    |
| <b>9. ROADWAY CROSS SECTIONS (Outfalls to Mustang Bayou)</b>                                                                                                                                                                   |                                     |                           |                    |                     |                   |                           |                    |                     |             |             |
| 9.1 Drainage outfall Cross Sections (every 100') (5 sheets)                                                                                                                                                                    |                                     | 2                         | 10                 | 10                  | 20                |                           |                    |                     | 42          | \$ 7,300    |
| 9.2 Earthwork quantities (cut and fill)                                                                                                                                                                                        |                                     |                           | 2                  | 6                   |                   |                           |                    |                     | 8           | \$ 1,470    |
| Subtotal Hours                                                                                                                                                                                                                 | 0                                   | 2                         | 12                 | 16                  | 20                | 0                         | 0                  | 0                   | 50          | \$ 8,770    |
| Subtotal Fee                                                                                                                                                                                                                   | \$ -                                | \$ 550                    | \$ 2,340           | \$ 2,880            | \$ 3,000          | \$ -                      | \$ -               | \$ -                |             | \$ 8,770    |
| <b>TOTAL BASIC SERVICES HOURS</b>                                                                                                                                                                                              | 0                                   | 5                         | 29                 | 91                  | 36                | 74                        | 4                  | 0                   | 239         |             |
| <b>TOTAL BASIC SERVICES FEE</b>                                                                                                                                                                                                | \$0.00                              | \$1,375.00                | \$5,655.00         | \$16,380.00         | \$5,400.00        | \$11,470.00               | \$600.00           | \$0.00              | \$0.00      | \$40,880.00 |



**PHASE 2: FINAL DESIGN PHASE LEVEL OF EFFORT (LOE) FEE ESTIMATE FOR ADDITION OF WATERLINE DESIGN INTO EXISTING CONTRACT  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY**

|                                                                                                                                   | Principal /<br>Managing<br>Director | Senior Project<br>Manager | Senior<br>Engineer | Project<br>Engineer | Staff<br>Engineer | Senior CADD<br>Technician | CADD<br>Technician | Admin /<br>Clerical | Total Hours | Total Cost   |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------|--------------------|---------------------|-------------------|---------------------------|--------------------|---------------------|-------------|--------------|
| HOURLY RATE INCLUDING MULTIPLIER ( 3.00 )                                                                                         | \$ 350                              | \$ 275                    | \$ 195             | \$ 185              | \$ 150            | \$ 155                    | \$ 150             | \$ 130              |             |              |
| <b>1. COORDINATION, DATA COLLECTION/REVIEW, DESIGN DEVELOPMENT, REVIEW AND APPROVAL, BIDDING, AND CONSTRUCTION PHASE SERVICES</b> |                                     |                           |                    |                     |                   |                           |                    |                     | rps<br>hrg  |              |
| 1.1 Project Meetings (9 total - Kick-Off + 8 Meetings (2 per bid package) @ 1 Hr Ea. + Meeting Minutes)                           |                                     | 9                         |                    | 12                  |                   |                           |                    |                     | 21          | \$ 4,695     |
| 1.2 Internal QA/QC ( 70%, 95%, 100% Reviews for 4 bid packages)                                                                   |                                     | 72                        |                    |                     |                   |                           |                    |                     | 72          | \$ 19,800    |
| 1.3 Site Meeting/Field Visit (combined visit for all 4 bid package)                                                               |                                     | 6                         |                    | 6                   |                   |                           |                    |                     | 12          | \$ 2,760     |
| 1.4 Data Collection/Review                                                                                                        |                                     |                           |                    | 8                   | 8                 |                           |                    |                     | 16          | \$ 2,680     |
| 1.5 Development of Design Basis Report/Tech Memo (one for all 4 bid packages)                                                     |                                     | 8                         |                    | 24                  | 48                |                           |                    |                     | 80          | \$ 13,840    |
| 1.6 Specification Development (70%, 95%, and 100%)                                                                                |                                     | 8                         |                    | 12                  | 24                |                           |                    |                     | 44          | \$ 8,020     |
| 1.7 OPCC (70%, 95%, and 100%)                                                                                                     |                                     | 4                         |                    | 8                   | 16                |                           |                    |                     | 28          | \$ 4,980     |
| 1.8.a Agency Coordination and Approvals - Water Authority/District/County                                                         |                                     | 2                         |                    | 6                   |                   |                           |                    |                     | 8           | \$ 1,660     |
| 1.8.b Agency Coordination and Approvals - COH (project in ETJ)                                                                    |                                     | 2                         |                    | 8                   |                   |                           |                    |                     | 10          | \$ 2,030     |
| 1.8.c Agency Coordination and Approvals - TCEQ                                                                                    |                                     | 2                         |                    | 8                   |                   |                           |                    |                     | 10          | \$ 2,030     |
| 1.9. Utility Coordination and Approvals - Provide plans to known utility companies at 70%, 95%, and 100% and coordinate approval  |                                     | 2                         |                    | 4                   | 16                |                           |                    |                     | 22          | \$ 3,690     |
| 1.10 Assist with Bid RFIs and Addenda (4 bid packages)                                                                            |                                     | 8                         |                    | 16                  |                   |                           |                    |                     | 24          | \$ 5,160     |
| 1.11 Assist with additional RFI's and Submittal Reviews (4 construction projects)                                                 |                                     | 8                         |                    | 16                  | 48                |                           |                    |                     | 72          | \$ 12,360    |
| 1.12 Assist with additional Record Drawings (4 construction projects)                                                             |                                     | 1                         |                    | 6                   |                   | 11                        |                    |                     | 18          | \$ 3,090     |
| <b>Subtotal Hours</b>                                                                                                             | 0                                   | 132                       | 0                  | 134                 | 160               | 11                        | 0                  | 0                   | 437         | \$ 86,795    |
| <b>Subtotal Fee</b>                                                                                                               | \$ -                                | \$ 36,300                 | \$ -               | \$ 24,790           | \$ 24,000         | \$ 1,705                  | \$ -               | \$ -                |             | \$ 86,795    |
| <b>WATERLINE DESIGN DRAWINGS</b>                                                                                                  |                                     |                           |                    |                     |                   |                           |                    |                     |             |              |
| General Water and Utility Construction Notes (1 sheet)                                                                            |                                     |                           |                    | 2                   |                   | 4                         |                    |                     | 6           | \$ 990       |
| Water Details (2 sheets)                                                                                                          |                                     |                           |                    | 2                   |                   | 8                         |                    |                     | 10          | \$ 1,610     |
| Modifications to Roadway Plan & Profile Sheets to show Water Line                                                                 |                                     |                           |                    | 2                   |                   | 8                         |                    |                     | 10          | \$ 1,610     |
| STREET 1 (3 Sheets)                                                                                                               |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| STREET 2 (3 Sheets)                                                                                                               |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| STREET 3 (3 Sheets)                                                                                                               |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| ILLINOIS ST (3 Sheets)                                                                                                            |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| STREET 4 (3 Sheets)                                                                                                               |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| FRONT ST (3 Sheets)                                                                                                               |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| STREET 5 (3 Sheets)                                                                                                               |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| STREET 6 (3 Sheets)                                                                                                               |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| STREET 7 (3 Sheets)                                                                                                               |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| STREET 8 (3 Sheets)                                                                                                               |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| STREET 9 (3 Sheets)                                                                                                               |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| LINDEN ST (3 Sheets)                                                                                                              |                                     | 3                         |                    | 13.5                |                   | 18                        |                    |                     | 34.5        | \$ 6,113     |
| STREET 10 (3 Sheets)                                                                                                              |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| STREET 11 (3 Sheets)                                                                                                              |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| W DALLAS ST (3 Sheets)                                                                                                            |                                     | 3                         |                    | 12                  |                   | 24                        |                    |                     | 39          | \$ 6,765     |
| STREET 12 (3 Sheets)                                                                                                              |                                     | 2                         |                    | 9                   |                   | 12                        |                    |                     | 23          | \$ 4,075     |
| STREET 13 (3 Sheets)                                                                                                              |                                     | 1                         |                    | 4.5                 |                   | 6                         |                    |                     | 11.5        | \$ 2,038     |
| <b>Subtotal Hours</b>                                                                                                             | 0                                   | 41                        | 0                  | 189                 | 0                 | 272                       | 0                  | 0                   | 502         | \$ 88,400    |
| <b>Subtotal Fee</b>                                                                                                               | \$ -                                | \$ 11,275                 | \$ -               | \$ 34,965           | \$ -              | \$ 42,160                 | \$ -               | \$ -                |             | \$ 88,400    |
| <b>10. Reproduction Services and other reimbursable expenses (Direct Cost)</b>                                                    |                                     |                           |                    |                     |                   |                           |                    |                     |             |              |
| Site Visit Mileage                                                                                                                |                                     |                           |                    |                     |                   |                           |                    |                     |             | \$ 200       |
| <b>TOTAL BASIC SERVICES HOURS</b>                                                                                                 | 0                                   | 173                       | 0                  | 323                 | 160               | 283                       | 0                  | 0                   | 939         |              |
| <b>TOTAL BASIC SERVICES FEE</b>                                                                                                   | \$0.00                              | \$47,575.00               | \$0.00             | \$59,755.00         | \$24,000.00       | \$43,865.00               | \$0.00             | \$0.00              | \$0.00      | \$175,395.00 |



ADDITIONAL SERVICES LEVEL OF EFFORT (LOE) FEE ESTIMATE  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY

LUMP SUM  
SERVICE

DURATION FOR PRELIMINARY DESIGN PHASE BASIC SERVICES = XX DAYS

|                                                                      |  |  |  |  |            |
|----------------------------------------------------------------------|--|--|--|--|------------|
| 1. Subconsultant: Topographic Survey by MBCO                         |  |  |  |  |            |
| For breakdown of MBCO, see Attached Proposal Breakdown               |  |  |  |  |            |
| Survey and Metes & Bounds for new Drainage Easement to Mustang Bayou |  |  |  |  | \$ 40,180  |
| Investigation of Septic Fields (SUE and Survey)                      |  |  |  |  | \$ 109,830 |
| TOTAL ADDITIONAL SERVICES                                            |  |  |  |  | \$ 150,010 |





## TOTAL LEVEL OF EFFORT (LOE) FEE ESTIMATE

FRESNO EVERGREEN PROJECT

FORT BEND COUNTY

### LUMP SUM SERVICES

|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| PHASE 1 PRELIMINARY: NEW DRAINAGE EASEMENT PLANS - HR GREEN | \$96,930.00         |
| PHASE 1 PRELIMINARY: PREPARE DRAINAGE STUDY - HR GREEN      | \$107,355.00        |
| PHASE 2 FINAL DESIGN - HR GREEN                             | \$40,880.00         |
| <b>SUB TOTAL LUMP SUM SERVICES</b>                          | <b>\$245,165.00</b> |

### ADDITIONAL SERVICES

|                                                                       |                     |
|-----------------------------------------------------------------------|---------------------|
| MBCO - Survey & Metes & Bounds for Drainage Easement to Mustang Bayou | \$40,180            |
| MBCO - Investigation of Septic Fields (SUE and Survey)                | \$109,830           |
| HR Green - Waterline Design                                           | \$175,395           |
| <b>TOTAL ADDITIONAL SERVICES</b>                                      | <b>\$325,405</b>    |
|                                                                       |                     |
| <b>PROJECT TOTAL</b>                                                  | <b>\$570,570.00</b> |

**PROPOSAL FOR LAND SURVEYING SERVICES**

November 8, 2024

Jesus Olivas, P.E.

HR Green, Inc  
11011 Richmond, Suite 200  
Houston, TX 77042

Ref: Request for SUE and Survey services for the investigation of individual residence septic fields in Magnolia Place, Fresno, TX in Fort Bend County, Texas.

Mr. Olivas:

MBCO is pleased to submit this proposal for professional surveying services for the scope provided by HR Green in an email dated 8-29-2024, which will consist of investigating the horizontal location of septic fields on 46 individual lots, AS SHOWN ON Exhibit "A" of this proposal.

**CONTROL**

- MBCO will utilize the existing Fresno project primary control and set new secondary control as needed.
- No new control maps will be completed per this proposal.

**QUALITY LEVEL B SUE SERVICES**

- MBCO will research warranty deeds and affidavits for on-site sewage facilities (OSSF) of each parcel.
- Review affidavit for on-site sewage facilities (OSSF). This will aid in locating the location of the septic system per parcel.
- Right-of-entry: download ownership data, create ownership spreadsheet, mail merge, compose letters, coordination between county, property owners, and client



- Quality Level B SUE services to determine the horizontal location of existing private subsurface septic tanks and associated leach bed lines, on each of the 46 residential parcels.
- MBCO will use different methodology to delineate the septic fields including but not limited to visual inspection, hand probing, and ground penetrating radar (GPR).
- MBCO will mark the septic fields with either paint or pin flags.
- Some septic fields or portions of may not be able to be delineated due to soil conditions, depth of leach field pipes, and overall field conditions.
- MBCO will collect the field data through survey methods and show it in a CAD file which can be referenced into the existing project CAD files.

#### **MBCO ASSUMPTIONS:**

- This proposal is based solely and exclusively on the best interpretation of the scope as provided by HR Green and as shown on Exhibits "A", attached. Any changes to the project location, area, or scope will significantly impact costs and fees and will require a new cost proposal.
- MBCO will not enter yards/properties over or through locked gates or fences.
- MBCO will not survey yards/properties with animals that are not restrained, dogs must be locked behind a fence or in the house.
- MBCO cannot control the weather and cannot be held responsible for delays in schedule due to inclement weather.
- MBCO field crews must be given access to properties on a timely basis. This proposal makes limited allowance for return trips because of access issues. MBCO will need access to parcels on the day of survey. Return trips beyond what is accounted for in this proposal will incur additional charges.
- The prices in this proposal are lump sum prices for the scope provided. If the amount of parcels or linear feet changes, MBCO reserves the right to adjust fees accordingly.
- MBCO will work tasks in the most efficient manner possible, requests to do tasks out of order may lengthen the schedule timeline and add additional cost.

#### **DELIVERABLES:**

- Civil 3D .dwg of the topographic survey.
- Signed and sealed engineers report in .pdf format.
- Point File in the standard ASCII (P,N,E,Z,D) format.

**SCHEDULE:**

MBCO will complete the above-described scope of services within sixty (60) business days from receiving the signed notice-to-proceed.

**LUMP SUM COMPENSATION:**

**Total Lump Sum Fee \$ 109,830.00**

| SUMMARY OF SURVEY TOTALS |                      |
|--------------------------|----------------------|
|                          |                      |
| Total Survey Services    | \$ 60,490.00         |
| Total SUE Services       | \$ 49,340.00         |
| <b>Total Survey Fee</b>  | <b>\$ 109,830.00</b> |
|                          |                      |

The above-mentioned surveying services is a Lump Sum Fee, which will be billed at project completion or percent completion at the end of every month for the duration of the project, to be paid in full within 30 days of invoice date.

This cost proposal is valid for 30 days from the date of the proposal and may be re-evaluated after such time to account for any changes with the project scope, environmental factors and/or the general rate schedule. If this proposal is acceptable, please sign and return a copy. If you have any questions, you may reach me at [Jeff.Ketchum@mbcoengineering.com](mailto:Jeff.Ketchum@mbcoengineering.com).

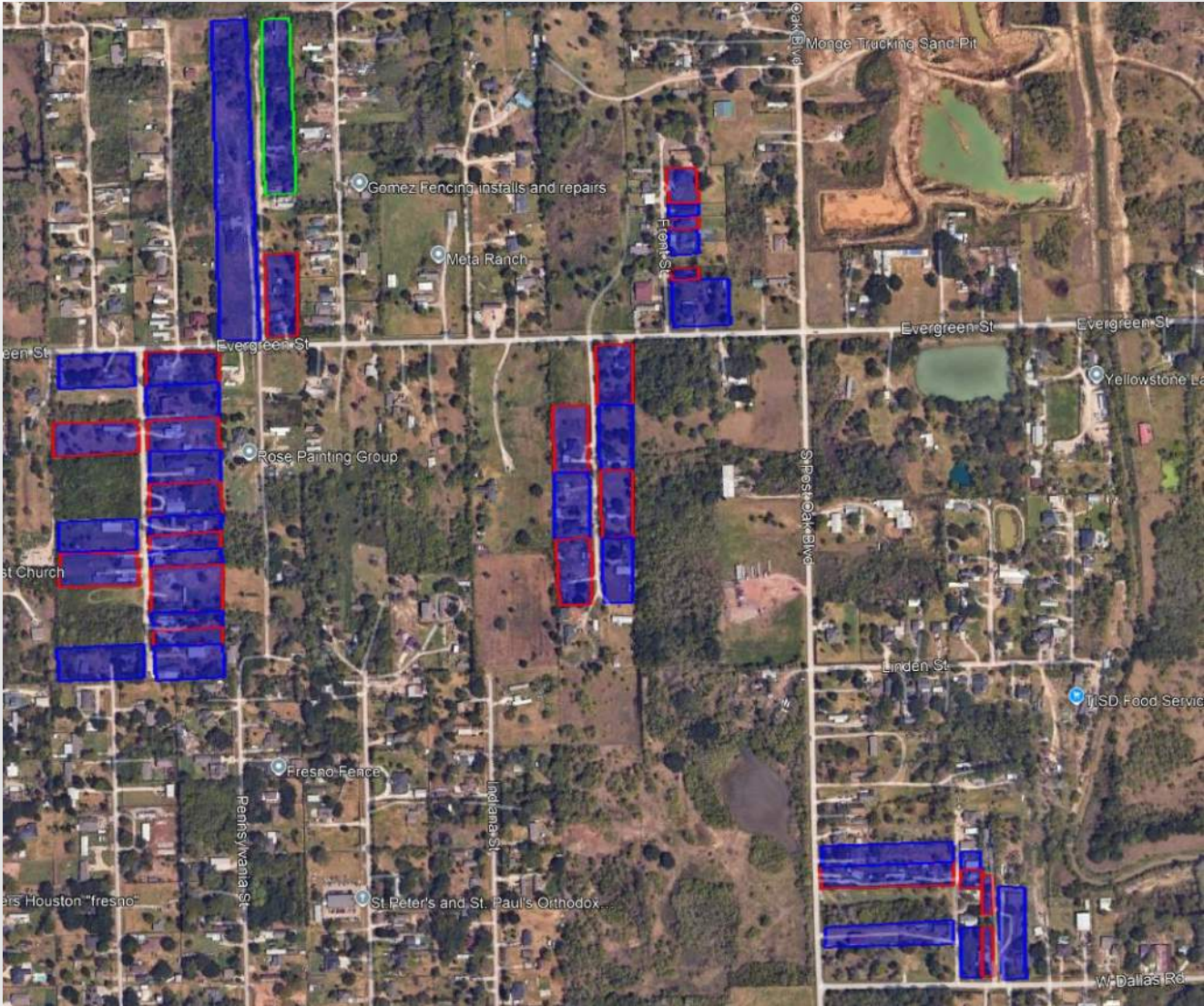
Thank you for the opportunity and we appreciate doing business with you.

Sincerely,



Jeff Ketchum  
Survey Project Coordinator

Exhibit "A"



[illegible]



**PROPOSAL FOR LAND SURVEYING SERVICES**

September 20, 2024

Jesus Olivas, P.E.

HR Green, Inc  
11011 Richmond, Suite 200  
Houston, TX 77042

Ref: Request for topographic survey and a metes & bounds for a new drainage easement in Magnolia Place, Fresno, TX in Fort Bend County, Texas.

Mr. Olivas:

MBCO is pleased to submit this proposal for professional surveying services for the scope provided by HR Green in an email dated 8-29-2024, which will consist of topographic surveys of two (2) areas along Mustang Bayou and preparation of a drainage easement metes & bounds and exhibit.

**CONTROL**

- MBCO will utilize the existing Fresno project primary control and set new secondary control as needed.
- No new control maps will be completed per this proposal.

**BOUNDARY SURVEY**

- MBCO will prepare a metes & bounds and exhibit for a drainage survey out of a single lot which connects Dallas Rd. to Mustang Bayou as shown on Exhibit "A" of this proposal.



## **CATEGORY 6 CONDITION I TOPOGRAPHIC SURVEY**

MBCO will collect survey data at two (2) individual areas along Mustang Bayou, the first being an existing drainage easement and adjacent areas at the east end of Linden St., the second being between two lots connecting Dallas Rd. to Mustang Bayou, as shown on Exhibit "A" of this proposal to include but not limited to:

- Locate all visible above-ground improvements within the project area, including but not limited to natural ground elevations, roadside ditches, all structures, edge of paving and gravel, manholes, inlets, fences, gates, culverts, curb and gutter, driveways, above ground utilities etc.
- Cross-sections of the two areas of Mustang Bayou will include a minimum of five (5) cross-sections each, one at the outfall location, and two sections 50 feet apart upstream and downstream of the outfall location.
- Cross-sections will include high bank, toe of slope, grade breaks, edge of water, center line, berms, erosion areas, rock rip/rap and brush and tree lines. The exact break-lines that can be located greatly depends on the amount of water in Mustang Bayou at the time of survey. MBCO can only define the break-lines that are visible at the time of survey. If the conditions are unsafe to walk within the bayou MBCO may use sonar to collect the data under the waters surface.
- Ornamental individual trees 4" will be shown all natural wooded areas will be shown outlined as woods edge.
- MBCO will prepare up to four (4) ROE letters to request access to the needed properties. If access is not granted through the return of the ROE letter and the day of the survey it is the responsibility of HR Green and or Fort Bend County to provide MBCO survey crews access to the site to complete the survey

## **MBCO ASSUMPTIONS:**

- This proposal is based solely and exclusively on the best interpretation of the scope as provided by HR Green and as shown on Exhibits "A", attached. Any changes to the project location, area, or scope will significantly impact costs and fees and will require a new cost proposal.
- MBCO will not enter yards/properties over or through locked gates or fences.
- MBCO will not survey yards/properties with animals that are not restrained.
- MBCO cannot control the weather and cannot be held responsible for delays in schedule due to inclement weather.
- MBCO survey field crews must be given access to properties on a timely basis. This proposal makes no allowance for return trips because of access issues. MBCO will need access to parcels on the day of survey. Return trips will incur additional charges.
- The prices in this proposal are lump sum prices for the scope provided. If the amount of parcels or linear feet changes, MBCO reserves the right to adjust fees accordingly.



- MBCO will work tasks in the most efficient manner possible, requests to do tasks out of order may lengthen the schedule timeline and add additional cost.

#### **DELIVERABLES:**

- Civil 3D .dwg of the topographic survey.
- .xml surface file
- Signed and sealed topographic survey in .pdf format.
- Signed and sealed metes and bounds description and exhibit of drainage the easement.
- Metes and bounds description in .doc format for title purposes.
- Point File in the standard ASCII (P,N,E,Z,D) format.

#### **SCHEDULE:**

MBCO will complete the above-described scope of services within thirty (30) business days from receiving the signed notice-to-proceed.

#### **LUMP SUM COMPENSATION:**

**Total Lump Sum Survey Fee \$ 40,180.00**

The above-mentioned surveying services is a Lump Sum Fee, which will be billed at project completion or percent completion at the end of every month for the duration of the project, to be paid in full within 30 days of invoice date.

This cost proposal is valid for 30 days from the date of the proposal and may be re-evaluated after such time to account for any changes with the project scope, environmental factors and/or the general rate schedule. If this proposal is acceptable, please sign and return a copy. If you have any questions, you may reach me at [Jeff.Ketchum@mbcoengineering.com](mailto:Jeff.Ketchum@mbcoengineering.com).

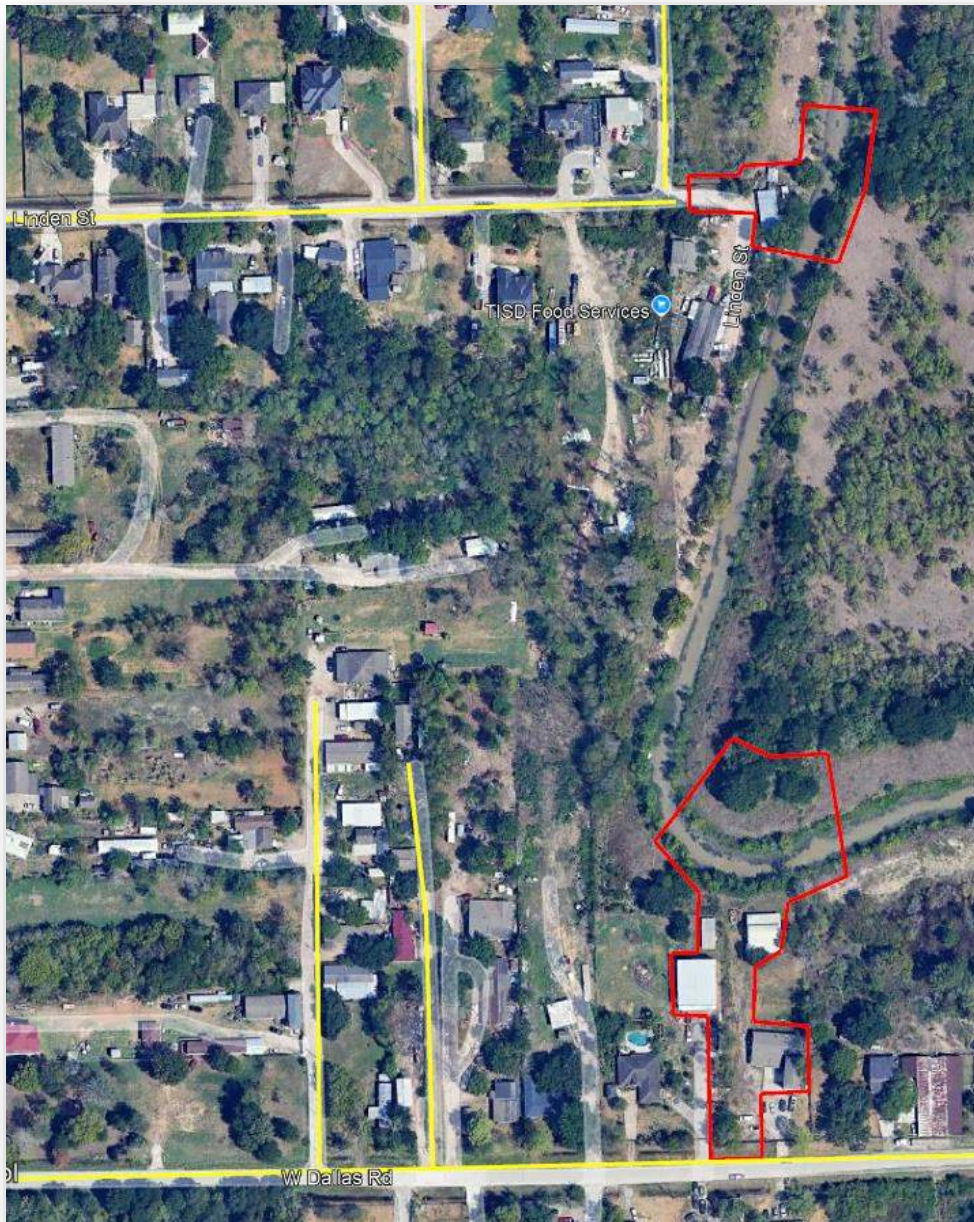
Thank you for the opportunity and we appreciate doing business with you.

Sincerely,



Jeff Ketchum  
Survey Project Coordinator

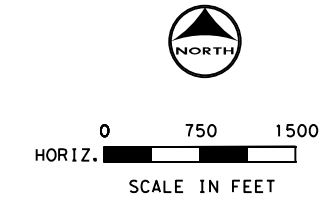
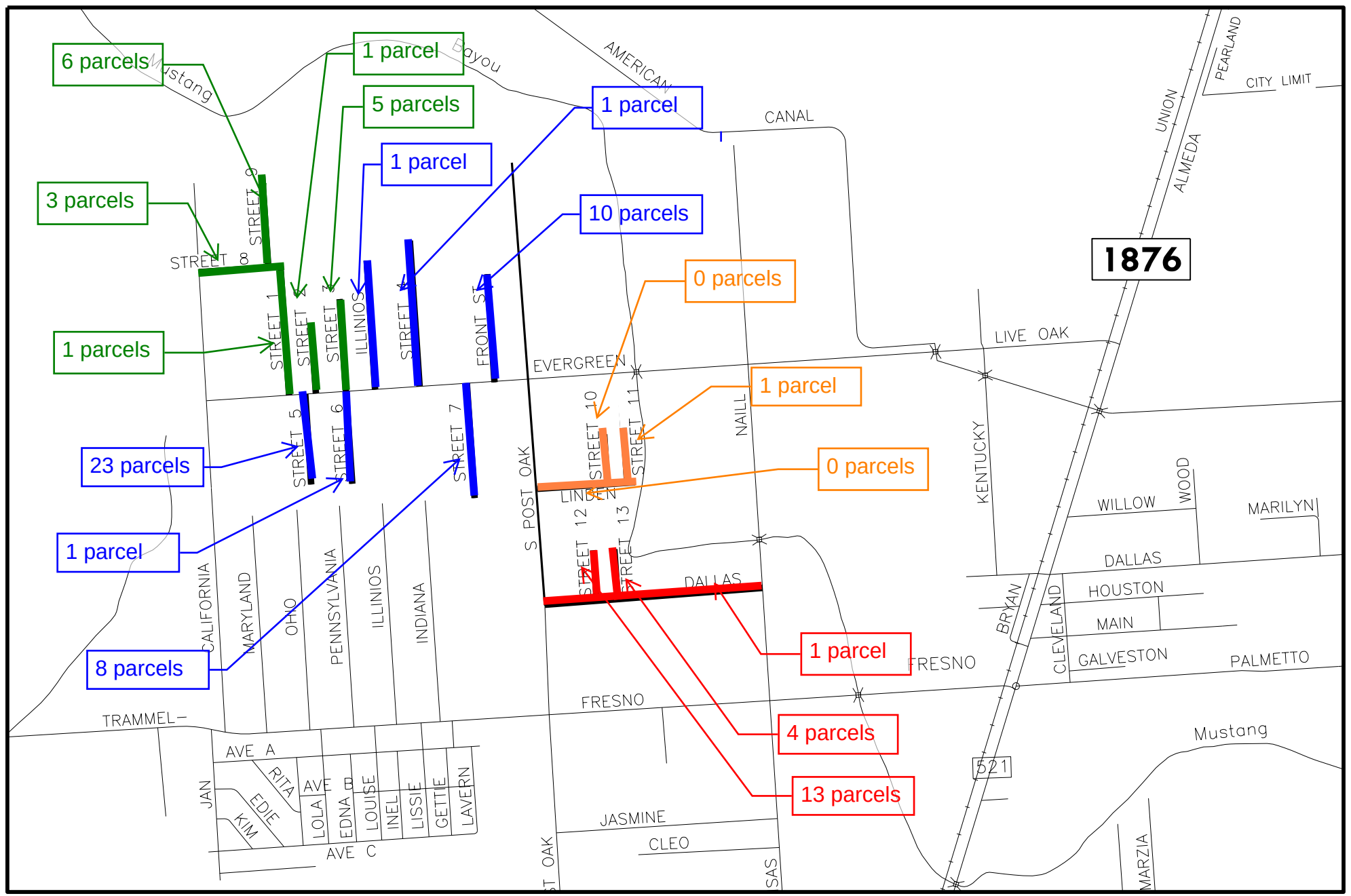
**Exhibit "A"**  
**Survey Area Outlined In Red**



| CONTRACT RATE PER HOUR                         | Office                 |           |            |                   |                      |                 |           | Field             |                   |                   |            |                   |                  |              |
|------------------------------------------------|------------------------|-----------|------------|-------------------|----------------------|-----------------|-----------|-------------------|-------------------|-------------------|------------|-------------------|------------------|--------------|
|                                                | SURVEY PROJECT MANAGER | Sr RPLS   | RPLS       | SURVEY TECHNICIAN | SR SURVEY TECHNICIAN | ADMIN/ CLERICAL |           | 1-MAN SURVEY CREW | 2-MAN SURVEY CREW | 3-Man SURVEY CREW | TOTAL HRS. | Total Office Amt. | Total Field Amt. | Total Cost   |
| Survey Services                                | Office                 |           |            |                   |                      |                 |           | Field             |                   |                   |            |                   |                  |              |
| CONTROL                                        |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| FIELD                                          |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Secondary Control Traverse LINDEN              |                        |           |            |                   |                      |                 |           | 8                 |                   |                   | 8          | \$ -              | \$ 1,560.00      | \$ 1,560.00  |
| Secondary Control Traverse DALLAS              |                        |           |            |                   |                      |                 |           | 8                 |                   |                   | 8          | \$ -              | \$ 1,560.00      | \$ 1,560.00  |
| Control Elevation Loop                         |                        |           |            |                   |                      |                 |           | 8                 |                   |                   | 8          | \$ -              | \$ 1,560.00      | \$ 1,560.00  |
| FIELD CONTROL SUBTOTAL                         | 0                      | 0         | 0          | 0                 | 0                    | 0               | 0         | 0                 | 24                | 0                 | 24         | \$ -              | \$ 4,680.00      | \$ 4,680.00  |
| FIELD SUBTOTAL                                 | 0                      | 0         | 0          | 0                 | 0                    | 0               | 0         | 0                 | 24                | 0                 | 24         | \$ -              | \$ 4,680.00      | \$ 4,680.00  |
| OFFICE                                         |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| CONTROL DATA PROCESSING                        |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Field Package Meeting and Line Out             |                        |           |            | 1                 |                      |                 |           |                   |                   |                   | 1          | \$ 130.00         | \$ -             | \$ 130.00    |
| Control Data Processing                        |                        |           |            | 4                 |                      |                 |           |                   |                   |                   | 4          | \$ 520.00         | \$ -             | \$ 520.00    |
| DATA PROCESSING SUBTOTAL                       | 0                      | 0         | 0          | 5                 | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 5          | \$ 650.00         | \$ -             | \$ 650.00    |
| OFFICE SUBTOTAL                                | 0                      | 0         | 0          | 5                 | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 5          | \$ 650.00         | \$ -             | \$ 650.00    |
| CONTROL TOTAL                                  | 0                      | 0         | 0          | 5                 | 0                    | 0               | 0         | 0                 | 24                | 0                 | 29         | \$ 650.00         | \$ 4,680.00      | \$ 5,330.00  |
| Boundary                                       |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| FIELD                                          |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Boundary Search for POB of easement Dallas St  |                        |           |            |                   |                      |                 |           | 5                 |                   |                   | 5          | \$ -              | \$ 975.00        | \$ 975.00    |
| FIELD SUBTOTAL                                 | 0                      | 0         | 0          | 0                 | 0                    | 0               | 0         | 0                 | 5                 | 0                 | 5          | \$ -              | \$ 975.00        | \$ 975.00    |
| OFFICE                                         |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| BOUNDARY DATA PROCESSING                       |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Field Package                                  |                        |           |            | 0.5               |                      |                 |           |                   |                   |                   | 0.5        | \$ 65.00          | \$ -             | \$ 65.00     |
| Meeting and Line Out                           |                        |           |            |                   |                      |                 |           |                   |                   |                   | 0          | \$ -              | \$ -             | \$ -         |
| Data Processing                                |                        |           |            | 0.5               |                      |                 |           |                   |                   |                   | 0.5        | \$ 65.00          | \$ -             | \$ 65.00     |
| DATA PROCESSING SUBTOTAL                       | 0                      | 0         | 0          | 1                 | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 1          | \$ 130.00         | \$ -             | \$ 130.00    |
| BOUNDARY RESEARCH AND ANALYSIS                 |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Boundary Research                              |                        |           |            | 4                 |                      |                 |           |                   |                   |                   | 4          | \$ 520.00         | \$ -             | \$ 520.00    |
| Boundary Analysis                              |                        |           |            | 1                 | 1                    |                 |           |                   |                   |                   | 2          | \$ 345.00         | \$ -             | \$ 345.00    |
| RESEARCH AND ANALYSIS SUBTOTAL                 | 0                      | 0         | 1          | 5                 | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 6          | \$ 865.00         | \$ -             | \$ 865.00    |
| BOUNDARY DRAWING                               |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Exhibit DALLAS St                              |                        |           |            | 10                |                      |                 |           |                   |                   |                   | 10         | \$ 1,450.00       | \$ -             | \$ 1,450.00  |
| Metes & Bounds DALLAS St                       |                        |           |            | 5                 |                      |                 |           |                   |                   |                   | 5          | \$ 725.00         | \$ -             | \$ 725.00    |
| Redlines                                       |                        |           |            | 2                 |                      |                 |           |                   |                   |                   | 2          | \$ 290.00         | \$ -             | \$ 290.00    |
| Client Revisions                               |                        |           |            | 1                 |                      |                 |           |                   |                   |                   | 1          | \$ 145.00         | \$ -             | \$ 145.00    |
| DRAWING SUBTOTAL                               | 0                      | 0         | 0          | 0                 | 18                   | 0               | 0         | 0                 | 0                 | 0                 | 18         | \$ 2,610.00       | \$ -             | \$ 2,610.00  |
| BOUNDARY QA/QC                                 |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| QA/QC                                          | 1                      |           | 2          |                   |                      |                 |           |                   |                   |                   | 3          | \$ 575.00         | \$ -             | \$ 575.00    |
| QA/QC SUBTOTAL                                 | 1                      | 0         | 2          | 0                 | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 3          | \$ 575.00         | \$ -             | \$ 575.00    |
| OFFICE SUBTOTAL                                | 1                      | 0         | 3          | 6                 | 18                   | 0               | 0         | 0                 | 0                 | 0                 | 28         | \$ 4,180.00       | \$ -             | \$ 4,180.00  |
| BOUNDARY TOTAL                                 | 1                      | 0         | 3          | 6                 | 18                   | 0               | 0         | 0                 | 5                 | 0                 | 33         | \$ 4,180.00       | \$ 975.00        | \$ 5,155.00  |
| TOPO                                           |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| FIELD                                          |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Site Topo Dallas St                            |                        |           |            |                   |                      |                 |           | 10                |                   |                   | 10         | \$ -              | \$ 1,950.00      | \$ 1,950.00  |
| Mustang Bayou Dallas St                        |                        |           |            |                   |                      |                 |           | 10                |                   |                   | 10         | \$ -              | \$ 1,950.00      | \$ 1,950.00  |
| Line Cutting Dallas St                         |                        |           |            |                   |                      |                 |           | 10                |                   |                   | 10         | \$ -              | \$ 1,950.00      | \$ 1,950.00  |
| Site Topo Linden St                            |                        |           |            |                   |                      |                 |           | 10                |                   |                   | 10         | \$ -              | \$ 1,950.00      | \$ 1,950.00  |
| Mustang Bayou Linden St                        |                        |           |            |                   |                      |                 |           | 10                |                   |                   | 10         | \$ -              | \$ 1,950.00      | \$ 1,950.00  |
| Line Cutting Linden St                         |                        |           |            |                   |                      |                 |           | 10                |                   |                   | 10         | \$ -              | \$ 1,950.00      | \$ 1,950.00  |
| FIELD TOPO SUBTOTAL                            | 0                      | 0         | 0          | 0                 | 0                    | 0               | 0         | 0                 | 60                | 0                 | 60         | \$ -              | \$ 11,700.00     | \$ 11,700.00 |
| FIELD SUBTOTAL                                 | 0                      | 0         | 0          | 0                 | 0                    | 0               | 0         | 0                 | 60                | 0                 | 60         | \$ -              | \$ 11,700.00     | \$ 11,700.00 |
| OFFICE                                         |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| TOPO DATA PROCESSING                           |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Field Package                                  | 1                      |           |            | 2                 |                      |                 |           |                   |                   |                   | 3          | \$ 405.00         | \$ -             | \$ 405.00    |
| Meeting and Line Out                           |                        |           |            |                   |                      |                 |           |                   |                   |                   | 0          | \$ -              | \$ -             | \$ -         |
| Survey Data Processing                         | 1                      |           | 1          | 8                 |                      |                 |           |                   |                   |                   | 10         | \$ 1,400.00       | \$ -             | \$ 1,400.00  |
| DATA PROCESSING SUBTOTAL                       | 2                      | 0         | 1          | 10                | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 13         | \$ 1,805.00       | \$ -             | \$ 1,805.00  |
| TOPO SURVEY DRAWING                            |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Topo Survey Drawing/UtilityDrawing             |                        |           |            | 40                |                      |                 |           |                   |                   |                   | 40         | \$ 5,200.00       | \$ -             | \$ 5,200.00  |
| Elevation Clean Up                             |                        |           |            | 4                 |                      |                 |           |                   |                   |                   | 4          | \$ 520.00         | \$ -             | \$ 520.00    |
| 90 Labels                                      |                        |           |            | 10                |                      |                 |           |                   |                   |                   | 10         | \$ 1,300.00       | \$ -             | \$ 1,300.00  |
| ROE Letters                                    | 2                      |           | 1          | 8                 | 2                    | 5               |           |                   |                   |                   | 18         | \$ 2,410.00       | \$ -             | \$ 2,410.00  |
| Surface Drawing                                |                        |           |            |                   | 12                   |                 |           |                   |                   |                   | 12         | \$ 1,740.00       | \$ -             | \$ 1,740.00  |
| RedLines                                       |                        |           |            | 10                |                      |                 |           |                   |                   |                   | 10         | \$ 1,300.00       | \$ -             | \$ 1,300.00  |
| Client Revision                                |                        |           |            | 8                 |                      |                 |           |                   |                   |                   | 8          | \$ 1,040.00       | \$ -             | \$ 1,040.00  |
| Project Setup                                  | 1                      |           |            |                   |                      | 1               |           |                   |                   |                   | 2          | \$ 260.00         | \$ -             | \$ 260.00    |
| Project Controls                               | 1                      |           |            |                   |                      | 1               |           |                   |                   |                   | 2          | \$ 260.00         | \$ -             | \$ 260.00    |
| Field Coordination                             | 1                      |           |            |                   |                      |                 |           |                   |                   |                   | 1          | \$ 145.00         | \$ -             | \$ 145.00    |
| Project Meetings                               | 1                      |           |            |                   |                      |                 |           |                   |                   |                   | 1          | \$ 145.00         | \$ -             | \$ 145.00    |
| QA/QC Walkthrough                              |                        |           |            | 8                 |                      |                 |           |                   |                   |                   | 8          | \$ 1,040.00       | \$ -             | \$ 1,040.00  |
| RPLS Review                                    |                        |           | 1          |                   |                      |                 |           |                   |                   |                   | 1          | \$ 215.00         | \$ -             | \$ 215.00    |
| DRAWING SUBTOTAL                               | 6                      | 0         | 2          | 88                | 14                   | 7               | 0         | 0                 | 0                 | 0                 | 117        | \$ 15,575.00      | \$ -             | \$ 15,575.00 |
| TOPO QA/QC                                     |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Cad Support                                    |                        |           |            |                   |                      |                 |           |                   |                   |                   | 0          | \$ -              | \$ -             | \$ -         |
| QA/QC Review                                   | 1                      |           | 2          |                   |                      |                 |           |                   |                   |                   | 3          | \$ 575.00         | \$ -             | \$ 575.00    |
| QA/QC SUBTOTAL                                 | 1                      | 0         | 2          | 0                 | 0                    | 0               | 0         | 0                 | 0                 | 0                 | 3          | \$ 575.00         | \$ -             | \$ 575.00    |
| OFFICE SUBTOTAL                                | 9                      | 0         | 5          | 98                | 14                   | 7               | 0         | 0                 | 0                 | 0                 | 133        | \$ 17,955.00      | \$ -             | \$ 17,955.00 |
| TOPOGRAPHIC SURVEY TOTAL                       | 9                      | 0         | 5          | 98                | 14                   | 7               | 0         | 0                 | 60                | 0                 | 193        | \$ 17,955.00      | \$ 11,700.00     | \$ 29,655.00 |
| Reimbursables and Additional Expenses          |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  |              |
| Certified Mail                                 |                        |           |            |                   |                      |                 |           |                   |                   |                   | 10         | \$ -              | 4.00             | \$ 40.00     |
| Reimbursables and Additional Expenses Subtotal |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  | \$ 40.00     |
| HOURS SUB-TOTALS                               | 10                     | 0         | 8          | 109               | 32                   | 7               | 0         | 89                | 0                 | 0                 |            | \$ 22,785.00      | \$ 17,355.00     | \$ 40,180.00 |
| CONTRACT RATE PER HOUR                         | \$ 145.00              | \$ 275.00 | \$ 215.00  | \$ 130.00         | \$ 145.00            | \$ 115.00       | \$ 130.00 | \$ 195.00         | \$ 260.00         |                   |            |                   |                  |              |
| TOTAL LABOR COSTS                              | \$1,450.00             | \$0.00    | \$1,720.00 | \$14,170.00       | \$4,640.00           | \$805.00        | \$0.00    | \$17,355.00       | \$0.00            |                   |            |                   |                  |              |
| SUBTOTAL Task                                  | \$1,450.00             | \$0.00    | \$1,720.00 | \$14,170.00       | \$4,640.00           | \$805.00        | \$0.00    | \$17,355.00       | \$0.00            |                   | \$0.00     | \$ -              | \$ -             | \$ 40,180.00 |
| Basic Services Total                           |                        |           |            |                   |                      |                 |           |                   |                   |                   |            |                   |                  | \$ 40,180.00 |

## SUMMARY OF SURVEY TOTALS

|                      |              |
|----------------------|--------------|
| Total Basic Services | \$ 40,180.00 |
|----------------------|--------------|



PILOT PACKAGE 1 STREETS - 1 PARCEL

- LINDEN ST
- STREET 10
- STREET 11

PACKAGE 2 STREETS - 18 PARCELS

- W DALLAS ST
- STREET 12
- STREET 13

PACKAGE 3 STREETS - 16 PARCELS

- STREET 1
- STREET 2
- STREET 3
- STREET 8
- STREET 9

PACKAGE 4 STREETS - 44 PARCELS

- ILLINOIS ST
- STREET 4
- FRONT ST
- STREET 5
- STREET 6
- STREET 7

FOR INTERIM REVIEW ONLY

DOCUMENT INCOMPLETE:  
NOT INTENDED FOR CONSTRUCTION,  
BIDDING, OR PERMIT PURPOSES

ENGINEER: ANDREW CRUMP  
P.E. SERIAL No. 120041  
DATE: \$DATE\$

PREPARED BY:



HRGreen

11011 RICHMOND AVE, SUITE 200  
HOUSTON, TX 77042  
(713) 965-9996  
(713) 965-0044 FAX  
HRGreen.com  
Firm No. F-11278

FORT BEND COUNTY - ENGINEERING DEPARTMENT

EVERGREEN SIDE ROADS

PROJECT LAYOUT SHEET

SHEET 1 of 1

DRAWN BY:

CHECKED BY:

DATE: \$DATE\$

REV.:

SHEET NUMBER

X OF XX

\$DATE\$  
\$FILES\$  
\$USER\$