



August 9, 2017

Ms. Candace Blalock
Project Manager
City of League City
500 West Walker
League City, Texas 77573

**Re: Proposal for Additional Professional Engineering Services
Dickinson Avenue Reconstruction Project (RE 1702C)
From E. Walker to F.M. 646**

Dear Candace:

Binkley & Barfield, Inc. (BBI) is pleased to provide this proposal for additional professional engineering services for the Dickinson Avenue project from E. Walker to F.M. 646 as requested.

The additional scope of these engineering services is to incorporate drainage improvements along Mulberry Street, Ohio Street & Virginia Avenue as shown in **Exhibit A**. These improvements connect to the north of the current Dickinson Avenue Improvements project and will work in conjunction with the portion of the Shellside Drainage Improvements project that was constructed in 2016. This additional scope includes the bidding and construction phase stated in the original scope of services for the project.

This additional work will be included in the 90% design package for the portion of the project from S.H. 96 to F.M. 646. It is anticipated that this additional work will add 4 weeks to the project schedule.

SCOPE OF SERVICES:

I. Final Design Services

1. Final Design to include civil plans for drainage improvements along Mulberry from Dickinson to Ohio Street (1285 LF), 200 LF northeast on Ohio Street and 200 LF northeast on Virginia Avenue.

II. Additional Services (Subcontractor)

BBI recommends the following Subcontractor Services for the project:

1. Topographic Survey of Proposed Detention Site near F.M. 646 (Baseline Corp)

2. Verification of Existing ROWs (Baseline Corp.) Allowance for 10 Parcel Acquisitions, as Approved by League City
3. Topographic Survey of Existing Mulberry Street / Side Streets (Baseline Corp)

III. Professional Engineering Services Fee Summary

Attached please find the detailed Level of Effort (LOE) with drawing sheet list for Final Design. BBI requests approval of the following fees:

Final Design Services

1. Final Design to include civil plans for drainage improvements along Mulberry from Dickinson to Ohio Street (1285 LF), 200 LF northeast on Ohio Street and 200 LF northeast on Virginia Avenue. \$67,910

Additional Services (Subcontractor)

1. Topographic Survey of Proposed Detention Site near F.M. 646 (Baseline Corp) \$1,675
2. Verification of Existing ROWs (Baseline Corp.) Allowance for 10 Parcel Acquisitions, as Approved by League City \$3,425
3. Topographic Survey of Existing Mulberry Street / Side Streets (Baseline Corp) \$6,925

Total Authorization Requested: \$79,935

IV. Limitations/ Exclusions:

All services not specifically listed herein are excluded from this proposal and out scope of work. Any scope items not specifically listed that the City of League City would like to add can be performed on an hourly basis based on the BBI 2016 Rate Schedule attached.

V. Supporting Documents Attached

- a. Additional Work Limits Map – **Exhibit A**
- b. Engineering Design Level of Efforts (LOE) with Man-hour Estimate and List of Drawings
- c. BBI 2016 Rate Schedule
- d. Survey Proposal by Baseline Corp.

Please call should you have any questions. Thank you again for selecting Binkley & Barfield, Inc. for this assignment and we look forward to working with you.



Sincerely,

BINKLEY & BARFIELD, INC.
Consulting Engineers

A handwritten signature in blue ink that reads "Tommy V. Cromer".

Tommy V. Cromer, P.E.
Senior Project Manager - Public Infrastructure

A handwritten signature in blue ink that reads "Todd Calvin".

Todd Calvin, P.E.
Vice President - Public Infrastructure

Attachments

Cc: David Hamilton, P.E.
Executive Vice President

EXHIBIT A



DICKINSON AVE. RECONSTRUCTION PROJECT									
CITY OF LEAGUE CITY									
MANHOUR ESTIMATE									
BINKLEY & BARFIELD, INC.									
DATE:	8/2/2017								
		Prin	Sr. Project Mgr.	Project Engr.	Sr. CADD Designer	CADD Designer	Clerical	TOTAL	TOTAL
SHT NO.	DESCRIPTION	\$231.00	\$218.25	\$185.00	\$129.00	\$116.00	\$72.00		
FINAL DESIGN PHASE - REVISION OF SCOPE TO ADD DRAINAGE IMPROVEMENTS ON MULBERRY									
1	Drawing List			2	6	8		16	\$2,072
2	Survey Control Map (Additional Services)								
3	Typical Sections			6	6	8		20	\$2,812
4	Existing Drainage Area Map - Sheet 1			6	6	10		22	\$3,044
5	Proposed Drainage Area Map - Sheet 1			10	10	10		30	\$4,300
6	Drainage Calculations - Sheet 1			32	6			38	\$6,694
7	Mulberry St. - Sta 0+00 to 5+00			6	8	16		30	\$3,998
8	Mulberry St. - Sta 5+00 to 10+00			6	8	16		30	\$3,998
9	Mulberry St. - Sta 10+00 to 15+00			6	8	16		30	\$3,998
10	Ohio St. - Sta 0+00 to 5+00			6	8	16		30	\$3,998
11	Virginia Ave. - Sta 0+00 to 5+00			6	8	16		30	\$3,998
12	Driveway Data			2	6	8		16	\$2,072
13	Cross Sections - Sheet 1			2	6	8		16	\$2,072
14	Cross Sections - Sheet 2			2	6	8		16	\$2,072
15	Traffic Control Plan - Step 1			2	6	8		16	\$2,072
16	Traffic Control Plan - Step 2			2	6	8		16	\$2,072
17	Traffic Control Plan - Details			2	6	8		16	\$2,072
18	Stormwater Pollution Prevention Plan -Sheet 1			1	6	8		15	\$1,887
19	Pavement Details (Sheet 1 of 3)			1	2	4		7	\$907
20	Misc Details			1	2	4		7	\$907
Project Management (Including Internal QA/QC)			30					30	\$6,548
Specifications / Bidsheet			2	6			1	9	\$1,619
Construction Cost Estimate			2	12			1	15	\$2,729
Response to Review Comments / Signatures			2	4	2	4	1	13	\$1,971
FINAL DESIGN PHASE TOTALS			36	123	122	184	3	468	\$67,910
ADDITIONAL SERVICES (SUBCONTRACTOR)									
1	Topographic Survey of Proposed Detention Site near F.M. 646 (Baseline Corp)								\$1,675
2	Verification of Existing ROWs (Baseline Corp.)								\$3,425
	Allowance for 10 Parcel Acquisitions, as Approved by League City								\$6,925
3	Topographic Survey of Existing Mulberry Street / Side Streets (Baseline Corp)								
ADDITIONAL SERVICES TOTAL									\$12,025
SUMMARY:									
FINAL DESIGN PHASE TOTAL									\$67,910
ADDITIONAL SERVICES TOTAL									\$12,025
TOTAL FEE									\$79,935



Binkley & Barfield, Inc.
Billable Fee Schedule
Effective 2016

<u>CLASSIFICATION</u>	<u>2016 BILLABLE RATES</u>
Principal (Eng. VII)	\$231.00
Sr. Project Manager (Eng. VI)	\$218.25
Project Manager (Eng. V)	\$185.00
Structural Engineer	\$185.00
Project Engineer (Eng. IV)	\$155.00
Process/Civil/Engineer	\$155.00
Electrical & Instrumentation Engineer	\$155.00
Associate/Staff Engineer (Eng. III)	\$132.00
Graduate Engineer (EIT)	\$105.00
Crew - 2 man	\$176.00
Sr. Designator	\$105.00
Designator	\$90.00
Production Manager	\$205.00
Production Technician	\$80.00
Sr. Electrical Designer	\$136.00
Sr. CADD/Designer	\$129.00
CADD/Designer	\$116.00
CADD Technician	\$95.00
Sr. Clerical / Sr. Administrator	\$78.75
Clerical / Administrator	\$72.00
3D Modeling (Per day)	\$750.00

August 9, 2017

Mr. Tommy Cromer, P.E.
Binkley & Barfield, Inc.
1704 Seamist Drive
Houston, TX 77008

**Re: Proposal for Professional Surveying Services
Topographic Surveying and Right-of-Way Mapping of Mulberry Street
From Dickinson Avenue to Ohio Street and Topographic Surveying of
Proposed Linear Storm Water Detention Site for Dickinson Avenue
City of League City, Galveston County, Texas**

Dear Mr. Cromer:

Baseline Corporation (Baseline) appreciates the opportunity to provide this proposal to Binkley & Barfield, Inc. (Client) to perform topographic surveying and right-of-way verification to support the engineering design and construction of storm drainage improvements as part of the reconstruction of Dickinson Avenue (Project). The Mulberry Street portion of the Project is bounded by Dickinson Avenue on the west and Ohio Street on the east. There are six (6) side streets intersecting Mulberry Street. The topographic survey and cross sections described in the Scope of Services below will extend 150 foot along each of these intersecting side streets. Topographic surveying will also be provided for the Proposed Linear Storm Water Detention Site shown on the exhibit provided by the Client. The Project is approximately 2,500 feet in length. This proposal is based on conversations and emails between the Client and Baseline, and exhibits provided to Baseline from the Client.

Survey Control:

Baseline shall establish horizontal and vertical survey control along the length of the Project. Control shall be set at approximate 800 foot intervals and will be placed where it will unlikely be disturbed during the construction phase of the project. Horizontal survey control will be established using GPS RTK methods. Vertical control will be established by digital leveling. Survey control shall be established horizontally and vertically relative to League City Engineering Department survey control based on prior survey control established for the Dickinson Avenue project. Survey control will also be tied to current FEMA vertical datum and a correlation factor will be provided. Baseline shall not prepare signed and sealed Survey. Survey control shall be shown and labeled on the topographic survey with coordinate values and elevations. Temporary benchmarks shall be established throughout the Project Limits and referenced on the topographic survey.

Scope of Services:

Our Scope of Services consists of the following three (3) Phases as follows:

1. Topographic Survey of Proposed Linear Storm Water Detention Site

Elevations on the Proposed Linear Storm Water Detention Site will be obtained on a grid not to exceed 50 feet by 50 feet. Services shall include the following:

- Obtain elevations and locations of existing paving, improvements, driveways, natural ground, ditches, irregularities in the natural ground and other features within and up to twenty-five (25) feet outside the limits of the Proposed Linear Storm Water Detention Site shown on the exhibit provided by the Client.

- Locate buildings, major structures, and driveways within 20 feet of the limits of the Proposed Linear Storm Water Detention Site shown on the exhibit provided by the Client..
- Contact “Texas811” to have utilities marked and flagged.
- Locate utilities within and adjoining the Site. The utilities shall be located and tied based on visual evidence.
- Obtain top, flow line elevations and pipe sizes on storm sewer lines, sanitary sewer lines, culverts, inlets and drainage structures.

2. Right of Way Verification of Mulberry Street and Intersecting Side Streets

Baseline shall perform abstracting (deed research) to obtain the deeds and plats for the Mulberry Street right-of-way (ROW), the ROW of the 6 intersecting side streets, and properties adjacent to those streets. Easements on properties adjoining the ROW of Mulberry Street and the 6 intersecting side streets shall not be researched. The existing ROW shall be verified on the ground. Separate ROW maps shall not be prepared. The existing ROW lines shall be shown and labeled “EXISTING R.O.W.” on the topographic survey manuscript map. ROW lines shall not be annotated with bearings or distances.

3. Topographic Survey of Mulberry Street and Intersecting Side Streets

Services shall include the following:

- Obtain elevations and locations of existing paving, improvements, driveways, natural ground, ditches, irregularities in the natural ground and other features within and adjacent to the Project.
- Obtain cross sections for the project length at approximate 100 foot intervals. Cross sections shall extend to the existing ROW.
- Locate buildings, major structures, and driveways within 20 feet of the existing ROW.
- Contact “Texas811” to have utilities marked and flagged.
- Locate utilities within and adjoining the Site. The utilities shall be located and tied based on visual evidence.
- Obtain top, flow line elevations and pipe sizes on storm sewer lines, sanitary sewer lines, culverts, inlets and drainage structures.

Deliverables:

The deliverables for the Scope of Services above shall consist of a topographic survey manuscript showing all survey data, ROW lines labelled as “EXISTING R.O.W.”, and applicable notes and legend. All survey deliverables shall be prepared in AutoCAD Civil 3D 2017. Electronic files and hard copies, including pdf files of all deliverables shall be provided to the Client.

Compensation:

The above Scope of Services shall be completed for the lump sum fees below:

1. Topographic Survey of Proposed Linear Storm Water Detention Site	\$1,675.00
2. Verification of Existing ROW's	\$3,425.00
3. <u>Topographic Survey of Existing Mulberry Street/Side Street</u>	<u>\$6,925.00</u>
Total	\$12,025.00

Additional Services

Services not mentioned in the above Scope of Services can be completed on a “Time and Materials” basis in accordance with the attached Hourly Rate Sheet or a mutually agreed upon lump sum fee with prior approval from the Client. These services can include, but will not be limited to the following:

1. Construction Staking or staking the final proposed alignment (project baseline) on the ground.
2. Surveying outside the Project limits referenced herein.

3. Preparation of Boundary surveys and metes and bounds descriptions for additional ROW or easement acquisition.
4. Additional field visits to locate utilities which were not visible or marked at the time the field surveys were performed.
5. Showing utilities or other information on the surveys, which are based on Record Drawings or As-built Drawings. Only visible utilities will be shown on the completed surveys.
6. Re-marking survey control after the field surveys are complete.

Client Provided Services:

Client shall provide to Baseline the following:

- 1) Right-of-entry within the sites.
- 2) Any documentation or other items that may aid Baseline in completing the work.

Schedule:

The Scope of Services above shall be completed within approximately thirty (30) calendar days from the date of authorization.

Authorization:

If this proposal meets with your approval, please return it by email and request Baseline to proceed with the work. If you have any questions or concerns, please call or email.

Sincerely,

BASELINE CORPORATION

Professional Surveyors



Robert L. Davis, RPLS
Manager, Survey Operations