

**VOLKERT, INC.
MANPOWER AND FEE PROPOSAL**

**FOR
CITY OF GULF SHORES**

PROJECT # 1020800

BEACH DISTRICT STREETScape IMPROVEMENTS

BALDWIN COUNTY

**WEST 2ND STREET TO EAST 2ND STREET ALONG
1ST AND 2ND AVENUE**

August 6, 2019

FINAL DESIGN SCOPE OF WORK

Generally, the scope of services includes survey, environmental documentation and permitting, engineering, geotechnical, utility relocation design, and construction observation for the proposed Beach District Streetscape Improvements. The improvements include the widening and addition of on street parking, closed drainage piping, curbing, gutter, and sidewalks from West 2nd Street to East 2nd Street along both 1st Avenue and 2nd Avenue (Beach District) in Gulf Shores, Alabama. Additionally, the project scope includes the design of an extension of West 2nd Avenue from its current termination at West 1st Street to West 2nd Street (see attached map). More specifically the work includes:

FENVIRONMENTAL DOCUMENTATION AND PERMITTING

WETLAND DELINEATION AND JURISDICTIONAL DETERMINATION

Delineate jurisdictional wetland areas within existing right-of-way. The wetland delineation will be done in accordance with the U.S. Army Corps of Engineers' 1987 Wetland Delineation Manual and the 2010 Regional Supplement. The scope of work is as follows:

- Review soil survey information,
- Review available aerial photography,
- Determine if hydrology indicators are present,
- Determine if hydrophytic vegetation is present,
- Determine if hydric soils are present,
- Locate wetlands using a handheld GPS unit,
- Flag wetland areas,
- Complete Corps of Engineers Wetland Data Forms,
- Request that the Corps of Engineers verify the wetland jurisdictional determination.

The wetland line is subject to change until final verification is received by the U.S. Army Corps of Engineers. **This service does not include a survey of the wetland boundaries. Boundaries will be located using handheld GPS.**

DEPARTMENT OF THE ARMY (DOA), U.S. ARMY CORPS OF ENGINEERS (COE) NATIONWIDE 14 PERMIT APPLICATION

Nationwide14 Permit for road crossing requires the wetland impacts must be less than 1/2-acre of wetland fill to apply.

- Attend a field review by the U.S. Army Corps of Engineers.
- Complete the permit application.
- Develop the necessary attachments.
- Develop a Conceptual Mitigation Plan

This service does not include survey costs, application fees, or costs for additional studies that may be required (e.g. archaeological, threatened and endangered species). If an Individual Permit is required, this will be performed under a separate scope of work.

Note: There is no guarantee assumed or implied that the regulatory agencies involved will approve the requested fill.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT APPLICATION

- Complete the Notice of Registration (NOI) for the referenced site. Volkert will contact the client to obtain general information through a telephone interview. Once complete, the NOI will be submitted to the client for review, signature, and submittal to ADEM with the appropriate fee.
- Develop a Construction Best Management Practices Plan (CBMPP) which outlines appropriate soil and sediment erosion control practices, along with other measures, to reduce the likelihood of pollution resulting from stormwater run-off. This CBMPP will be prepared by a qualified professional. Volkert will perform a site visit and take into consideration erosion control measures currently in-place at the site when developing the CBMPP.

Client Responsibilities for the NPDES Permit Application

To complete this project in a timely and efficient manner, Volkert requests the following:

- Authorization to proceed. Authorization can be given by signing and returning this proposal.
- Information necessary to complete the NOI, as requested during the telephone interview.
- Copies of the current and/or proposed site plan identifying major construction areas, chemical storage areas, topography, current erosion, and sediment control measures in-place at the site and the name of the primary contractor at the site.
- The names and addresses for all NPDES or other environmental permits,

authorizations, or certificates which have been issued by ADEM, EPA or other agencies to you (applicant, parent corporation or LLC member) for this facility.

Environmental documentation and permitting – Lump Sum fee: \$11,205

This lump sum fee includes the required ADEM permit application fee.

ENGINEERING – ROADWAY PLANS

ROADWAY AND ROADWAY DRAINAGE DESIGN

The engineer hereby agrees to provide professional engineering design services for the project as follows:

- Perform a site visit with the survey noting restrictions, site distance, and general characteristics of the site
- Develop preliminary set of construction plans with preliminary cost estimates of the roadway improvements
- Coordinate with the City, Utility Providers, and adjacent business owners to review the preliminary design plans.
- Meet with City and to review the preliminary set of construction plans
- Identify any issues needed to address for final design and coordination
- Further develop plans into final construction plans including Title Sheet, quantity sheets, typical sections, general notes, plan and profile sheets, paving layout, signing, and striping plans, drainage sections, erosion control plans, traffic control plans, cross sections, and signalization plans.
- Develop quantities and cost estimates
- Develop Contract documents and specifications for letting
- Submit plans and contract documents to City for final review and letting by the City
- Attend all pre-bid and pre-construction conferences

See man day estimate for more detailed scope of services.

Engineering – Roadway Plans Lump Sum Fee: \$130,259

Geotechnical Services (ATC):

ATC will provide design phase services which may include coring the roadway to determine asphalt thickness and base conditions and will be used to develop pavement design for widening and resurfacing. ATC will also provide Construction Materials Testing services as required.

Geotechnical – Design Phase Fee: \$ 18,000

Geotechnical – Construction Materials Testing Budget: \$ 12,500

Utility Conflict Coordination:

- Review the survey of marked utilities and proposed design to assess conflicts.
 - Conflict review will be based upon horizontal crossing of marked utilities and proposed improvements. Should vertical information be available (access to sewer manhole inverts, as-built drawings, etc.) then that information will also be reviewed. Potholing of utilities or subsurface utility investigation is not proposed as part of Utility Coordination.
- Coordinate with utilities noted by one-call and those physically apparent.
- Provide utilities with coordination plans at 30%, 60%, and final design phases. Coordination does not include the design of relocations for utilities noted to be in conflict. Respective utilities, with the exception of GSU, will be responsible for design of relocations necessitated by the project.
- Develop a detailed set of existing utilities and note location, material type, and size based upon information provided by the respective utility.

Lump Sum Utility Coordination Fee: \$2,5000

Utility Conflict Design (GSU Water and Sewer):

- Develop construction plans and details for the relocation of conflicting potable water and sanitary sewer services within the project area. Conflicts will be resolved through minimal relocation of the mains, service laterals, valve boxes, or meter boxes in conflict. Extensive relocation of mains, lift stations, etc. is not anticipated.
- In the event that significant relocations or utility design is warranted by the proposed roadway improvements, a written scope will be provided to the city along with an estimated hourly fee for design services associated with the relocation. Work on extensive relocations will not commence until written authorization to proceed is received from the client.
 - Significant relocation or utility design for the purpose of this contract shall be defined as:
 - Design of one continuous block or more of water main or sewer main relocation.
 - Relocation of gravity sewer manholes
 - Design of water or sewer line rehabilitation

Utility Conflict Design – Not to Exceed Fee: \$50,000
Actual fee billed on an hourly basis

Construction Engineering and Inspection:

The engineer hereby agrees to provide professional services during construction of the project as follows: Review contractor submittals.

1. Attend/conduct a pre-construction meeting.
2. Review laboratory, mill and shop test to assist in monitoring the quality of construction.
3. Consult, answer questions, and assist in resolving construction issues during construction.
4. Provide services of Resident Project Representative (RPR) for onsite inspection, estimation of field quantities, and engineering during construction.
5. Review monthly and final estimates for payment to contractors.
6. Make final inspection of the construction upon completion.

Construction Observation and Inspection – Hourly Estimated Fee: \$200,290

BEACH DISTRICT STREETScape IMPROVEMENTS – SUMMARY OF FEES

SERVICE	FEE TOTAL
Environmental Documentation and Permitting	\$11,205
Engineering - Roadway Plans	\$130,259
Geotechnical Services - Design (ATC)	\$18,000
Geotechnical Services - Construction (ATC)	\$12,500
Utility Conflict Coordination	\$2,500
Utility Conflict Design (Hourly Estimated)	\$50,000
Construction Engineering & Inspection (Hourly Estimated)	<u>\$200,290</u>
GRAND TOT GRAND	\$424,754