



SCOPE OF SERVICES

Solicitation Number: CLMP186

Project Name: 2016 Large Scale W&WW Facilities Engineering Services
Rotation List

PROJECT FOR:

CITY OF AUSTIN, AUSTIN WATER UTILITY DEPARTMENT, THROUGH ITS CONTRACT
MANAGEMENT DEPARTMENT

PROJECT TITLE:

2016 Large Scale Water and Wastewater Facilities Engineering Services Rotation List

OBJECTIVES OF THE PROJECT:

The City of Austin (City) anticipates selecting up to ten (10) professional engineering firms to provide consulting engineering services for the Austin Water Utility (Austin Water). The selected firms will provide professional services for engineering studies, reports, planning, design, construction, and project management of water and wastewater system and facility projects.

This Large Scale Water and Wastewater Facilities Rotation List will be solicited in conjunction with another rotation list for Austin Water related to Small Scale Water and Wastewater Facilities. Consultants may submit statements of qualifications for both the Large and Small Water and Wastewater Facilities Engineering Request for Qualifications (RFQs), but it is the City's intent that a firm will only be selected for one of the two solicitations.

BACKGROUND:

Austin Water has identified numerous water, wastewater, reclaimed water and other related treatment facility projects as part of the its current Capital Improvements Program (CIP) that will be necessary to meet current and future utility needs of its customers. These projects will require external engineering services to properly plan, evaluate, design and implement. Austin Water anticipates that projects may be added, deleted, accelerated or delayed as the CIP budget is modified from time to time, or as Operations and Maintenance (O&M) needs arise.

The subject facilities engineering rotation list contract will provide for planning, studies, feasibility engineering, preliminary engineering, design, construction, project delivery support and other engineering services as necessary for any of the projects that are identified as part of the Austin Water Capital and O&M Budgets. Engineering disciplines under this contract may include civil, electrical, environmental, instrumentation and controls, mechanical, structural other types of engineering. Selected firms should be knowledgeable and experienced in water, wastewater, reclaimed water and bio-solids treatment process engineering.

Projects under the Large Scale Water and Wastewater Facilities Engineering Services Rotation List Contract will generally range in total project cost (engineering and construction) from \$1,000,000 to \$5,000,000. Engineering consulting fees for these projects are expected to generally range from \$200,000 to \$1,000,000. The City anticipates that water and wastewater facility engineering needs for larger projects or for projects that require highly unique engineering services will be procured through subsequent individual project specific requests for qualifications.

ANTICIPATED SERVICES:

The City anticipates the need for engineering services associated with general types of water and wastewater treatment and related facility projects, including facility, equipment and systems rehabilitation, addition and replacement to be accomplished under this rotation list contract. Projects may include the following types at various plant and facility locations:

- Water treatment systems and equipment
- Wastewater treatment systems and equipment
- Aeration equipment and systems
- Clarifiers, separators, hoppers and other basins
- Blowers and compressors
- Elevators
- Pumps and pumping systems
- Instrumentation, control and automation systems
- Drinking water reservoirs
- Drinking water pump stations
- Wastewater lift stations
- Wastewater forcemains
- Water and wastewater facility electrical power distribution systems
- Sludge processing and sludge handling facilities
- Biosolids composting facilities
- Wastewater effluent irrigation systems
- Wastewater effluent and wastewater sludge holding lagoons
- Reclaimed water pump stations
- Reclaimed water reservoirs
- Chemical feed systems
- Air handlers, air treatment and scrubber systems
- Heating, ventilation and air conditioning systems
- Hydraulic and pneumatic conveyance systems
- Biosolids treatment systems

Individual project assignments and related project schedules are yet to be determined and will be made based on firm capacity, capabilities and availability.

The following is intended as a guide to the general nature of services that will be provided. The majority of the projects will follow a similar approach outlined below. However, there may be

instances where services are necessary to meet the engineering needs of projects where engineering studies, management of a project/program, or operation and maintenance related assessment/assistance may be needed.

Planning / Study / Feasibility Engineering / Preliminary Engineering Services

This phase will develop a clear, well-defined scope for the project and will be reviewed with the selected professional engineering firms. A proposal including costs and schedule will be developed and submitted by the engineer and the work will proceed upon written authorization to proceed. Consultant services relating to project permits, bid document preparation or construction services will be determined at the time of the scope meeting. Special reports addressing environmental or other issues will be handled in the same manner.

Preliminary engineering will result in establishing sufficient project detail in order for design phase services to be initiated. This will include a development and submittal of a preliminary project cost estimate and schedule.

In some instances, the scope of the anticipated projects may be pre-defined by the Austin Water and the preliminary report phase generally associated with these types of projects may not be necessary.

Design Phase Services

The selected professional engineering firms shall, upon written authorization, conduct or otherwise acquire the necessary field surveys, field note descriptions for easement acquisition, soils and peripheral investigations for final designs. The selected firms shall prepare detailed final design plans, specifications utilizing Texas Commission on Environmental Quality (TCEQ) and City of Austin standards and other project developed standards, contract documents, cost estimates, and project manuals, and provide permit support as needed for the construction of project improvements as approved by the City of Austin in Phase 1.

Bidding Phase Services

The selected firms may be requested to assist the City in the bidding of the project including responding to pre-bid inquiries, issuing bid documents, addendums, submitting permit application(s), conducting a pre-bid conference and reviewing construction bids received as defined in Phase 1. A certified opinion of probable cost shall be delivered to the Owner prior to bid opening. Note: The consultant must issue and stamp any addenda issued in this phase.

Construction Phase Services

The selected professional engineering firms shall, upon written authorization, furnish construction phase services coinciding with the construction contractor's activities. The selected firms may be asked to provide construction phase services for some projects. These services are those generally associated with the construction phase and might include, but not

necessarily be limited to, the following: periodic visits to the job site to review the progress and quality of the work being accomplished; review and recommend for approval or disapproval pay estimates of the contractor(s) for work completed; review and approve submittals, requests for information (RFIs) and shop drawings and any necessary change orders; interpretation of the plans, specifications and other contract documents as required; project reviews with the contractor(s) and the City; preparation of as-built drawings of the completed facilities (ink, mylar or photographically reproduced mylar tracings, or appropriate electronic format on CD or DVD); certify that the project was constructed in accordance with approved plans and specifications; and other necessary related services associated with the firm's designs as applied to the construction process. The professional engineering firms may also, upon written authorization, provide on-site inspection services by qualified, experienced personnel for some projects which they did not have prior phase involvement. The professional engineering firms may also, upon written authorization, be engaged for Quality Assurance/Quality Control (QA/QC) and/or for dispute resolution services.

Warranty Phase Services

If authorized by the City in writing, the selected engineering firm shall provide warranty phase services generally consisting of assisting the City in correcting project malfunctions or deficiencies.

PROPOSED PROJECT SCHEDULE:

The term of this agreement is anticipated to be three (3) years or until authority is expended. Individual assignments may range between 120 days and 36 months, or longer in certain circumstances.

Firms may respond to both the Large Scale W&WW Facilities Engineering Services Rotation List and the Small Scale W&WW Facilities Engineering Services Rotation List. Firms will be selected for the Large Scale W&WW Facilities Engineering Services Rotation List first and then firms will be selected for the Small Scale W&WW Facilities Engineering Services Rotation List. The prime firms selected for the 2016 Large Scale Large Scale W&WW Facilities Engineering Services Rotation List will not be eligible to be a prime firm on 2016 Small Scale W&WW Facilities Engineering Services Rotation List. The Recommendation for Council Action will occur at the same time for both the Large Scale W&WW Facilities Engineering Services Rotation List and the Small Scale W&WW Facilities Engineering Services Rotation List.

COST ESTIMATE:

It is anticipated that the City will select up to 5 firms with an estimated authorization amount of \$800,000 each, for a total maximum funding amount of \$4,000,000. If a selected firm ceases practice during the contract period, or should the City elect to terminate its agreement with one of the selected firms, the remaining authorization will be distributed to one or more of the remaining firms.

MAJOR AND OTHER SCOPES OF WORK:

Below is a list of the major scopes of work that the City has identified for this project.

In addition, the City has identified Other Scopes of work that MAY materialize during the course of the project. The City does not guarantee that the scopes listed under Other Scopes of work will materialize on this contract. If the prime consultant intends to enter into a subconsulting agreement on a scope of work not listed below, the prime consultant is required to contact SMBR and request an updated availability list of certified firms in each of the scopes of work for which the prime consultant intends to utilize a subconsultant.

*** Major Scopes of Work**

Civil Engineering
Electrical Engineering
Environmental Engineering
Instrumentation and Controls Engineering
Mechanical Engineering
Structural Engineering

Other Scopes of Work

Geotechnical Engineering
Geotechnical Services
Environmental Consulting/Assessment/Studies
Surveying Services
Cost Estimating
Permitting Services
Scheduling Services

Notes:

- Construction Inspection and Public Information and Communications are **NOT** a subconsultant opportunity. These services will be performed in-house or under a separate contract, if needed, and will be determined when project assignment is made.
- Participation at the prime or subconsultant level may create a conflict of interest and thus necessitate exclusion from any contracts resulting from the work performed in the design phase.
- If the City determines that a conflict of interest exists at the prime or subconsultant level, the City reserves the right to replace/remove the prime or instruct the prime consultant to remove the subconsultant with the conflict of interest and to instruct the prime consultant to seek a post-award change to the prime consultant's compliance plan as described in City Code § 2-9B-23. Such substitutions will be dealt with on a case-by-case basis and will be

considered for approval by Small and Minority Business Resources (SMBR) in the usual course of business. The City's decision to remove a prime or subconsultant because of a conflict of interest shall be final.

- For Subproject assignments that include construction activities performed by the CONSULTANT or Subconsultants, workers shall be paid not less than the prevailing wage rates, as referenced in Section 00830 (<http://www.austintexas.gov/page/bid-docs>)
- A consultant performance evaluation will be performed on all professional services contracts. This evaluation will be conducted at the end of each Preliminary, Design and Construction phase, or at assignment completion for those projects with no distinct phases (i.e., surveying, SUE services, etc.).