

**AMENDMENT 1 TO  
CIVILTEC ENGINEERING INC.  
ENGINEERING AND CONDITION ASSESSMENT OF WELL NOS 16, 19, AND 25**

THIS AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT between the CITY OF GARDEN GROVE and CIVILTEC ENGINEERING, INC., is made and entered into, to be effective the 24 day of May, 2022, as follows:

**RECITALS**

WHEREAS, the City of Garden Grove (“City”) has employed Civiltec Engineering Inc. (“Consultant”) to provide Engineering and Condition Assessment of Well Nos 16, 19, and 25; and

WHEREAS, the City has requested that Consultant to perform additional services identified in the attached proposal (engineering services to design a new drainage system and modification to the chlorine chemical dosing system and shade structure for Well 19); and

WHEREAS, the City and Consultant have agreed to the proposal and to increase compensation to cover the additional services.

**AMENDMENT**

NOW, THEREFORE, in consideration of the promises and mutual covenants contained herein, the original Agreement compensation of \$468,606.00 is hereby adjusted and the Scope of Work is hereby amended pursuant to Attachments 1, incorporated herein by reference. Based on the amended Scope of Work, the total compensation amount of the Agreement is increased to a not to exceed amount of \$538,936, which reflects an increase in compensation of \$70,330.00 for Amendment 1 to cover the additional services to be provided by Consultant.

All provisions of the Agreement not affected herein shall remain in full force and effect.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment to the Agreement for Engineering and Condition Assessment of Well Nos 16, 19, and 25 at Garden Grove, California.

CITY of GARDEN GROVE

ATTEST:

By: \_\_\_\_\_  
City Manager

By: \_\_\_\_\_  
City Clerk

Approved as to form:

Date: \_\_\_\_\_

\_\_\_\_\_  
City Attorney

Civiltec Engineering, Inc.

By: \_\_\_\_\_  
Its: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Its: \_\_\_\_\_



Civil, Water, Wastewater, Drainage, Transportation and  
Electrical/Controls Engineering • Construction Management • Surveying  
California • Arizona

April 28, 2022

City of Garden Grove  
13802 Newhope Street  
Garden Grove, California 92843

Sent Via Email: rebeccal@ggcity.org

**ATTN: Rebecca Li | Senior Civil Engineer**

**RE: Proposal for the Well 19 Storm Drain Connection  
Civiltec Proposal No. PF22017.00**

Dear Ms. Li,

**Civiltec engineering, inc. (Civiltec)** appreciates the opportunity to provide professional surveying and engineering services to the City of Garden Grove (Client) for the above referenced project. We understand this project is for the placement of a new pump to waste storm drain line for the Well 19 pumping system and proposed treatment plant in Garden Grove, California. The project will consist of placement of a new minimum 18" diameter RCP pipeline extending from the Well 19 site within Orangewood Avenue to the intersection of Orangewood and Euclid Street (approximately 1,400 feet in length). The new pipeline will connect with an existing City of Anaheim 72" storm drain pipeline. Permitting coordination and acquisition with the City of Anaheim will be developed and considered in the ultimate alignment selection process. In addition, **Civiltec** will prepare design plans for a new chloring chemical dosing system within the Well 19 building enclosure. The existing chlorine storage tank will be kept in service. OCWD will prepare the design elements for the chlorine analyzer and its drainage to a future drain line connection to the storm drain. **Civiltec** will anticipate this component with necessary provisions in our plans. Lastly, a new shade structure will be designed to replace the existing chain link fence that is configured within the existing well 19 wall enclosure.

## **AUTHORIZED RESPONSIBLE ENGINEERS**

**Civiltec** proposes to assign C. Shem Hawes, PE, as company representative. He is a Principal in the firm and the Fullerton Branch Manager. He will be responsible for the firm's timely response and quality completion. He has complete authority to handle all contractual matters, commit **Civiltec's** resources as necessary and take all action necessary to meet your requests. Shem will be assisted by Alec Escamilla as the staff engineer. **Civiltec** will manage this project directly from our Fullerton office.

## SCOPE OF SERVICES

Based on our project understanding and professional experience, we have identified the following scope of services.

### Phase 1 – Preliminary Design

#### Task 1 - Meeting and Project Management

Arrange and conduct a workshop with Garden Grove and *Civiltec* project team to formalize design criteria, discuss schedules, and obtain any data, CAD files, plans, or documents that Garden Grove may have in its possession relative to the project. In addition, meetings will be held during all major design milestones and as necessary to facilitate project execution. We have anticipated participating in 3 web-based team meetings to consider design elements and discussion. Meeting minutes and action items will be provided within 7 days of each meeting.

#### Task 2 - Utility Research and Data Collection

*Civiltec* will perform a complete utility investigation and data research of the site considering all major elements of the research necessary for design development. Our objective is to obtain all record information available for the site including record drawings of the site improvements, substructure drawings, boundary information, aerial photographs, vertical and horizontal control, preliminary engineering reports, record drawings, assessor's parcel maps, etc. *Civiltec* will conduct a site visit to identify existing conditions that may affect design and construction of the proposed project.

#### Task 3 - Field Survey

*Civiltec* will perform a detailed field survey to locate existing features, obtain information on above-grade, on-site and off-site utilities and, if manholes are accessible, obtain invert elevations for the sewer and storm drain lines within street right-of-way. Water valves, utility vaults and other visible facilities will be documented using Underground Service Alert (USA) dig alert markings.

#### Task 4 - Base Mapping and Site Plan

*Civiltec* will plot the topographic information from the field survey in coordination with our field investigation and review public right-of-way maps, utility information obtained from research, and prepare the base map of the project areas, as necessary.

#### Task 5 – Concept Alignment and Analysis

*Civiltec* will prepare a concept alignment and prepare technical memorandum establishing the benefits of the proposed pipe alignment considering cost, connection to City of Anaheim storm drain facilities, City of Anaheim permitting requirements and street resurfacing from the context of moratorium impacts. Results will be presented to confirm the proper approach moving forward.

### Phase 2 – Design Services

*Civiltec* will prepare plans and specifications for civil, and all other aspects of the project based on direction from Garden Grove. The drawings will be created in AutoCAD 2019 for Windows in Civil3D on 24-inch by 36-inch size sheets. Our design includes preparation of the plans for permitting purposes. Our efforts also include additional detailed electrical design for the Well 19 site.

We propose to provide three submittals for approval of the plans and specifications. The following list identifies the key submittals, meetings, and design information proposed for the design.

### **Task 1 - 50% Design Submittal and Review**

Submit complete design drawings, plans, and specification table of contents. The 50% design drawings will include topography map, location, and sizes of all found utilities, demolition plan and details. The 50% submittal will include title sheet, plan sheets, typical sections, and pipeline detail sheets.

We will meet with Garden Grove to discuss comments approximately one week following the 50% submittal.

### **Task 2 - 90% Design Submittal and Review**

*Civiltec* will prepare detailed design plans for construction based on comments from the 50% design. *Civiltec's* 90% design submittal will include the piping layout and profiles, details, notes, dimensions, standard drawing references, connection details, and other pertinent information. Large-scale details will be provided for necessary tie-in connection points. Technical specifications, detailed engineer's construction cost estimate, and bid schedule will be completed in accordance with Garden Grove's requirements. The submittal will include complete designs and plans, first draft of complete specifications document, a narrative of progress addressing outstanding issues, and design completion.

We will meet with Garden Grove to discuss comments approximately one week following the 90% submittal.

### **Task 4 - Final Design Submittal**

*Civiltec* will incorporate comments from the 90% design review corrections from Garden Grove. The final submittal will include original Mylar plans and original contract specifications signed by a California Professional Licensed Civil Engineer. A PDF set of plans will be submitted to Garden Grove for approval prior to final printing. We will also review Garden Grove's provided special provisions and update, as necessary. The front-end special provisions will be provided by Garden Grove to be included in the bid documents.

### **Task 5 – Specifications, Permits and Cost Estimate**

*Civiltec* will prepare detailed technical specifications, permits, cost estimate, and special provisions to support the drawings and complete the elements of the project at each of the design milestones. Garden Grove's technical specifications and standard drawings will be implemented where applicable. We understand that Garden Grove will furnish the specifications and *Civiltec* will refine these specifications to be project specific. We will also incorporate the latest Garden Grove front-end contract documents and general provisions and develop necessary project specific special provisions. We will apply for connection permits to the City of Anaheim public works department and consider directions made by Anaheim.

### **Phase 3 – Hydrogeologic Services**

During the course of well inspection and investigation for Well 25 it was discovered that a joint in the existing casing required repair. Best Drilling and Pump will install a 10' swage patch from 15' to 25'



below ground surface. This work will be performed prior to pump placement within the well by use of a 16" diameter mild steel swage patch.

## SCHEDULE

*Civiltec* is available to commence this project immediately. Based on the scope of work described previously, we can complete this project within 4 months of notice to proceed considering reasonable review times by permitting agencies.

## FEE DISTRIBUTION SCHEDULE

Professional fees for the above-described services will be billed on a time and materials, not to exceed basis as summarized below. A breakdown of our hours and fees is included as Attachment A.

Phase 1. Preliminary Design.....	\$14,465.00
Phase 2. Design Services.....	\$32,020.00
<u>Phase 3. Hydrogeologic Services.....</u>	<u>\$23,845.00</u>
<b>Total .....</b>	<b><u>\$70,330.00</u></b>

Any work not authorized within 3 months of the date of this proposal will be subject to renegotiations based on current rates. Capacity and impact fees associated with application filings shall be the responsibility of the Client. Additional services may be authorized by the Client based on *Civiltec's* Hourly Rate Schedule. *Civiltec* will bill monthly for all work performed and expenses incurred on the project's behalf.

If this proposal is acceptable, please return a signed copy to our office. Again, thank you for the opportunity to submit this proposal. We look forward to working with you on this project. Please contact the undersigned directly with any comments or questions.

Sincerely,

*Civiltec engineering, inc.*

A handwritten signature in blue ink that reads 'C. Shem Hawes'.

C. Shem Hawes, PE ([shawes@civiltec.com](mailto:shawes@civiltec.com))  
Principal, Senior Engineer  
CSH:AV



Attachment(s): A – Breakdown of Hours and Fees

**Proposal Acceptance:**

The Terms and Conditions of this proposal are:

Accepted this \_\_\_\_\_ day of \_\_\_\_\_ 2022.

By Authorized Client Representative:

\_\_\_\_\_  
Rebecca Li | Senior Civil Engineer

\_\_\_\_\_  
Date

**Attachment A**  
**Breakdown of Hours and Fees**



**PF22017.00-Garden Grove-Storm Drain Connection**  
**City of Garden Grove**  
**Time and Fee Estimate**

Date: April 28, 2022

Scope of Work	HOURS BY SrE	HOURS BY SrPE	HOURS BY SE	HOURS BY D	HOURS BY CADT	HOURS BY PT	HOURS BY Admin	HOURS BY 2MS	HOURS BY SM	Best Drilling and Pump (x1.15)	REIMB. EXPENSES	TOTAL COST
<b>Phase 1 - Preliminary Design</b>	<b>\$ 240.00</b>	<b>\$ 205.00</b>	<b>\$ 155.00</b>	<b>\$ 145.00</b>	<b>\$ 110.00</b>	<b>\$ 120.00</b>	<b>\$ 80.00</b>	<b>\$ 240.00</b>	<b>\$ 185.00</b>			<b>\$ 14,465.00</b>
Task 1 - Meeting and Project Management	4	2	1				1					\$ 1,605.00
Task 2 - Utility Research and Data Collection	1					8	1		2		\$ 750.00	\$ 2,400.00
Task 3 - Field Survey	1		4					8				\$ 2,780.00
Task 4 - Base Mapping and Site Plan	1	2	4	16								\$ 3,590.00
Task 5 - Concept Alignment and Estimates	4	6	8	4			1					\$ 4,090.00
<b>Phase 2 - Design Services</b>												<b>\$ 32,020.00</b>
Task 1 - 50% Design Submittal and Review	5	8	14	24			2					\$ 8,650.00
Task 2 - 90% Design Submittal and Review	6	14	20	32			2					\$ 12,210.00
Task 3 - Final Design Submittal	2	6	10	14			2					\$ 5,450.00
Task 4 - Specifications and Cost Estimate	3	6	16			8	4					\$ 5,710.00
<b>Phase 3 - Hydrogeologic Services</b>												<b>\$ 23,845.00</b>
Task 1 - Hydrogeologic Services	4		2							\$ 22,575.00		\$ 23,845.00
<b>HOURS</b>	<b>31</b>	<b>44</b>	<b>79</b>	<b>90</b>	<b>0</b>	<b>16</b>	<b>13</b>	<b>8</b>	<b>2</b>			<b>283</b>
<b>BUDGET</b>	<b>\$ 7,440.00</b>	<b>\$ 9,020.00</b>	<b>\$ 12,245.00</b>	<b>\$ 13,050.00</b>	<b>\$ -</b>	<b>\$ 1,920.00</b>	<b>\$ 1,040.00</b>	<b>\$ 1,920.00</b>	<b>\$ 370.00</b>	<b>\$ 22,575.00</b>	<b>\$ 750.00</b>	<b>\$ 70,330.00</b>

SR = Sr. Principal Engineer      PIC = Principal Engineer      SE = Senior Engineer  
 SRPM = Sr. Project Manager      PrEE = Principal Electrical Engineer      PM = Project Manager  
 SrPE = Sr. Project Engineer      PE = Project Engineer      SRD = Sr. Designer  
 SE = Staff Engineer      D = Designer      DD = Designer/Drafter  
 CADT = CAD Technician      JrE = Junior Engineer      PT = Planning Technician  
 Admin = Administrative Assistant/Clerical      CO = Resident Eng./Const. Observer      2MS = Two Person Survey Crew  
 SM = Survey Manager      SLS = Staff Land Surveyor