

ATTACHMENT D

**AUTHORIZATION OF CHANGE IN SERVICES
CITY OF SAN MARCOS, TEXAS**

**PROJECT: Mobility IH35: River Ridge to Loop 82 Utility Relocations
(Contract #217-270)**
CONSULTANT: CP&Y, Inc.
AUTHORIZATION NO.: 2
ORIGINAL CONTRACT DATE: March 10, 2017
AUTHORIZATION DATE:

WORK TO BE ADDED TO OR DELETED FROM SCOPE OF SERVICES

A change in service is requested to include the necessary environmental services required to install groundwater monitoring wells on both sides of IH-35 near Crepe Myrtle as required by TxDOT due to the presence of documented LPSTs in the vicinity of the project. The monitoring wells will test for various contaminants, and the results will be included in an updated environmental re-evaluation of an already approved Categorical Exclusion (CE) for a northbound ramp reversal project along IH35 from Loop 82 to River Ridge. The monitoring wells are a requirement of TxDOT based on the initial CE re-evaluation performed under CIS Authorization No. 1. The CE is required to construct the proposed 16" waterline crossing underneath IH35. The field work and CE re-evaluation will be completed in accordance with TxDOT's requirements.

Previous Change In Services

#1: May 18, 2017; Re-evaluation of an approved CE to include a proposed 16" waterline crossing as a joint bid with the TxDOT IH35 from Loop 82 to River Ridge ramp reversal project; \$10,391.46

Previous contract amount:	<u>\$50,123.92</u>
Net increase/decrease in contract amount:	<u>\$20,547.20</u>
Revised contract amount:	<u>\$70,671.12</u>

Requested by:

By:

James J. Roohms
Chief Operating Officer

Date: 1/4/2018

Printed name, title

Approved by:

City of San Marcos:

Date: _____

By: _____
Bert Lumbreras, City Manager

EXHIBIT A SCOPE OF SERVICES

SERVICES TO BE PERFORMED BY THE ENGINEER

IH35: River Ridge Parkway to Loop 82 Utility Relocations San Marcos, Texas

This Amendment includes groundwater sampling and analysis, the revised reevaluation of the approved Categorical Exclusion (CE) document, and revised design for the associated Texas Department of Transportation (TxDOT) project. The Engineer shall provide the necessary additional environmental services, including groundwater sampling, as required for the City-elected upsizing of approximately 350 linear feet of existing 8-inch water line with proposed 16-inch water line crossing IH 35. A CE for a northbound ramp reversal project along IH 35 from Loop 82 to River Ridge Parkway was approved by TxDOT on January 30, 2017. The inclusion of the proposed water line crossing of IH 35 into the ramp reversal project design required a reevaluation of the approved CE, which was completed by CP&Y under Amendment 1. The reevaluation resulted in a finding of Leaking Petroleum Storage Tanks (LPSTs) in the vicinity of the proposed project area. As a result, TxDOT is requiring the completion of additional groundwater sampling and testing prior to approving a revised location for a water line crossing.

The tasks and products are more fully described in the following TASK OUTLINE.

TASK OUTLINE

I. BASIC SERVICES

A. Design Revision

1. Revise Plans and OPCC

The Engineer shall revise the plan and profile sheet to include the updated location of the 16-inch water line crossing. The plan and profile sheet will replace the previous sheet developed under the original agreement, and incorporate any changes required throughout the plans, specifications and Opinion of Probable Construction Cost (OPCC) to complete a revised submittal to TxDOT for review and incorporation into the project for a joint bid.

NOTE: THE WORK DESCRIBED IN THE ABOVE PARAGRAPH A IS NOT ANTICIPATED TO BEGIN UNTIL THE PROPOSED DESIGN LOCATION IS ENVIRONMENTALLY CLEARED BY TXDOT.

II. SPECIAL SERVICES

A. GROUNDWATER SAMPLING AND ANALYSIS:

1. Initial Preparation

Confirm the locations of the sampling points and to verify access to the TxDOT right-of-way within which all sampling points will be located. Coordinate with TxDOT to obtain any permits that may be required for drilling the temporary monitoring wells. It is anticipated that this work can be completed using a standard TxDOT traffic control plan which will be provided in order to obtain approval for such a standard plan.

Review available information concerning the locations of underground utility lines in the area of the planned

Amendment 2

Contract No. 217-270

assessment. Includes one (1) site visit to mark the proposed soil boring locations prior to notifying utility locating service to mark the locations of utility lines within the proposed area of investigation.

Prior to mobilizing, a site-specific Health and Safety Plan will be prepared that will describe the safety procedures to be followed by our employees while working on site. The schedule of field activities will be coordinated with the subcontracted drilling company, the analytical laboratory, and any City of San Marcos offices that require notification.

2. Field Investigation – Groundwater Sampling

Engineer will mobilize to the site along with a direct-push drill rig operated by a State of Texas-licensed drilling company to conduct the sampling activities described below. One soil boring will be completed on each side of IH 35 near the intersection with Crepe Myrtle Street, for a total of two (2) borings. The borings will be drilled to a depth of up to approximately 30 feet, which is 5 feet deeper than where groundwater is expected to be encountered and which is expected to be a sufficient depth to facilitate collection of groundwater samples. If groundwater is encountered at a more shallow depth, the temporary monitoring wells may be installed at shallower depths.

Continuous soil core will be obtained from each boring using direct push drilling methods and will be described and logged by a field geologist. Although no soil samples will be collected for laboratory analysis, samples from the soil core will be field screened for organic vapors using a photoionization detector (PID), and observations will be made regarding any odors or visual staining that are noted. PID measurements and other observations will be recorded on boring logs.

The soil borings will be converted into temporary monitoring wells using one-inch diameter PVC screen and casing. A groundwater grab sample will be collected from each temporary well using a peristaltic pump and dedicated, disposable tubing. The samples will be collected in clean laboratory-provided sample containers which will be labeled with a unique sample identification number, the date and time of sample collection and the sampler's initials. The samples will then be placed on ice in a cooler and transported with a completed chain-of-custody form to a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory for analysis.

Each groundwater sample will be analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) using EPA Method 8260 or EPA Method 8021. Analysis will be requested on standard 10-day turnaround. Investigation-derived waste (IDW) will be generated including soil core from the borings. The IDW will be containerized in one 55-gallon drum and one composite sample will be collected and analyzed for BTEX, total petroleum hydrocarbons (TPH), and 11 metals, including the 8 RCRA metals, antimony, beryllium and nickel. The drum will be temporarily stored on site or at an alternate location identified by CP&Y or City of San Marcos personnel pending removal for disposal upon receipt of analytical results and approval from the disposal facility.

3. Report Preparation

Upon receipt of analytical results, we will complete data validation, including review of the QA/QC procedures followed by the laboratory to ensure that the analytical data meet data usability standards. We will then incorporate the information obtained into a letter report with the results of the sampling. The report will include a brief description of the sampling procedures and a tabulated summary of the analytical results including a comparison of the detected concentrations to regulatory standards. A figure will be provided illustrating the sample locations. Soil boring log, copies of field sampling records and a copy of the laboratory report will be included as appendices. The report will be submitted electronically and will be signed and sealed, as required, by a Texas-licensed Professional Geoscientist.

Amendment 2

Contract No. 217-270

B. REVISE DOCUMENTED REEVALUATION CHECKLIST

1. Revise Reevaluation Checklist

The Engineer shall prepare a revised Documented Reevaluation Checklist to document environmental impacts associated with the proposed design change, including the updated groundwater sampling and analysis findings and to determine if the original project environmental decision remains valid in light of the design change. The Documented Reevaluation Checklist will be submitted to TxDOT Austin District for review and approval.

C. SURVEY

1. Topographic Survey

Perform topographic survey on an additional approximately 1.0 acres in the vicinity of IH35 and Crepe Myrtle in accordance with the work outlined under the original Scope of Services, Exhibit B, Section II, Paragraph A.1. Topographic Survey.

NOTE: THE WORK DESCRIBED IN THE ABOVE PARAGRAPH C IS NOT ANTICIPATED TO BEGIN UNTIL THE PROPOSED DESIGN LOCATION IS ENVIRONMENTALLY CLEARED BY TXDOT.

DELIVERABLES

- (a) Groundwater Sampling and Analysis Report
- (b) Revised Documented Reevaluation Checklist
- (c) Revised Plan and Profile Sheet, to be included in Plans, Specification, and OPCC submittal

Amendment 2

Contract No. 217-270

Exhibit B

IH35: River Ridge Parkway to Loop 82 Utility Relocations City of San Marcos												
Fee Schedule/Budget for CP&Y, Inc.												
Task Description	Senior Engineer	Project Manager	EIT	CADD Operator	Senior Environmental Planner	Environmental Planner I/II	RPLS	2-Man Survey Crew	Total Labor Hours	Total Labor Costs	Total Subconsultant Costs	Total Costs
	\$175.56	\$148.56	\$95.76	\$82.99	\$191.45	\$95.73	\$120.00	\$125.00				
I. BASIC SERVICES												
A. Design Revision	2	6	12	16	0	0	0	0	36	\$ 3,719.44	0	\$ 3,719.44
II. SPECIAL SERVICES												
A. Groundwater Sampling and Analysis	0	2	0	0	0	2	0	0	4	\$ 488.58	\$ 10,500.00	\$ 10,988.58
B. Revise Documented Reevaluation Checklist	0	1	0	4	4	8	0	0	17	\$ 2,012.16	\$ -	\$ 2,012.16
C. Survey	0	2	0	10	0	0	10	12	34	\$ 3,827.02	\$ -	\$ 3,827.02
TOTAL	2	11	12	30	4	10	10	12	91	\$ 10,047.20	\$ 10,500.00	\$ 20,547.20

EXHIBIT C

WORK SCHEDULE

IH35: River Ridge Parkway to Loop 82 Utility Relocations
San Marcos, Texas

Task	Completion Date
Notice to Proceed	1/8/2018
Groundwater Sampling and Report Preparation	2/16/2018
Submit Consultation Reevaluation Checklist	2/23/2018
TxDOT Review	3/9/2018
Topographic Survey	3/23/2018
Revise Design and Submit to TxDOT	4/6/2018