PROFESSIONAL SERVICES SUPPLEMENTAL AGREEMENT # 4 FOR CITY OF PFLUGERVILLE WATER TREATMENT PLANT OWNER'S REPRESENTATIVE SERVICES

STATE OF TEXAS § SCOUNTY OF TRAVIS §

This Supplemental Agreement No. 4 to a contract for Professional Services is made by and between the City of Pflugerville, Texas ("City") and Garver, LLC ("Consultant"). City and Consultant may be referred to herein singularly as "Party" or collectively as the "Parties."

WHEREAS, the City and Consultant executed an Agreement for Professional Services ("Agreement") on the 24th day of March, 2020 for the City of Pflugerville Water Treatment Plant (WTP) Owner's Representative Services project ("Project") in the amount of One Hundred Ninety Nine Thousand, Eight Hundred and Twenty (\$199,820) Dollars and Zero Cents; and

WHEREAS, the City and Consultant executed a Supplemental Agreement #1 for Professional Services for the Project in the amount of Forty Nine Thousand, Nine Hundred and Forty (\$49,940) Dollars and Zero Cents, to add WTP Site Buildout Planning and Cost Estimating Services to the Agreement; and

WHEREAS, the City and Consultant executed a Supplemental Agreement #2 for Professional Services for the Project in the amount of One Million, Two Hundred Twenty Thousand, Six Hundred Fifty-Seven (\$1,220,657) Dollars and Zero Cents, to add Design Oversight, Project Management and Water Rights Acquisition Support to the Agreement; and

WHEREAS, the City and Consultant executed a Supplemental Agreement #3 for Professional Services for the Project in the amount of Twenty Six Thousand, Six Hundred Ninety-Seven (\$26,697) Dollars and Zero Cents, to add Jar Testing Laboratory Services to the Agreement; and

WHEREAS, the City and Consultant desire to enter into a Supplemental Agreement #4 for Professional Services for the Project in the amount of Three Hundred Eleven Thousand, One Hundred Thirty Two (\$311,132) Dollars and Zero Cents, to add Preliminary Engineering Services for the Expansion of the Colorado River Raw Water Intake System; and

WHEREAS, it has become necessary to amend the Agreement to modify the provisions for the Scope of Services and Compensation; and

WHEREAS, it is necessary for the City to amend its agreements from time to time to comply with changes in state law relating to contracts of municipalities.

NOW, THEREFORE, premises considered, the City and the Consultant agree that said Agreement is amended as follows:

Article III. Scope of Services and Exhibit A, shall be amended as set forth in the attached Addendum to Exhibit A.

Article IV. Compensation to Consultant and Exhibit B (Fee Schedule), shall be amended by increasing by \$311,132 the amount payable under the Agreement for a total of \$1,808,246 as described in the attached Addendum to Exhibit B.

2.

Except as amended hereby, and as previously amended as indicated above, the terms of the Agreement shall remain unchanged and in full force and effect.

EXECUTED and **AGREED** to as of the dates indicated below.

CITY OF PFLUGERVILLE

CONSULTANT

) No	Ilso					
(Signature)	(Signature)						
Printed Name:	Sereniah Breland	Printed Name:	Dan Olson, P.E.					
Title:	City Manager	Title:	Vice President					
Date:		Date:	4/16/2021					

APPROVED AS TO FORM:

Megan R. Santoo

Charles E. Zech City Attorney Denton Navarro Rocha Bernal & Zech, P.C.

CITY OF PFLUGERVILLE WATER TREATMENT PLANT OWNER'S REPRESENTATIVE – SUPPLEMENTAL AGREEMENT NO. 4 ADDENDUM TO EXHIBIT A – SCOPE OF SERVICES

Background

The City of Pflugerville retained Garver to provide Owner's Representative (OR) services as the Owner's agent and liaison between the Design Consultants, Construction Contractors, Texas Commission on Environmental Quality (TCEQ), Texas Water Development Board (TWDB), and other stakeholders for the Pflugerville Water Treatment Plant Facility Expansion Project. The City is growing rapidly and needs to ensure adequate water supply for its customers within the next five to ten years as well as prepare for expansive future growth by full buildout. In December 2020 Garver completed a Water Supply Alternatives Evaluation outlining a number of potential future water sources for the City. Included in the evaluation were recommendations for short and long-term water supply options, with an emphasis on building multi-source redundancy into Pflugerville's water supply portfolio.

One of the recommended long-term permanent water supply alternatives is to expand the City's existing pump station and raw water pipeline that conveys water from the Colorado River to Lake Pflugerville. This PER will focus on an analysis of the feasibility of constructing this project in the near-term. Other water supply options defined in the Water Supply Evaluation, such as the HB 1437 Interbasin Transfer and Round Rock Emergency Interconnect projects, are still under evaluation with the relevant stakeholders, and will be further evaluated under a separate Supplemental Agreement at a later date, once better-defined.

This Supplemental Agreement No. 4 is for completing the evaluation of the Colorado River Intake System Expansion as identified in the Water Supply Alternatives Evaluation including water quality analyses, evaluation and recommendation of required capital projects, funding identification, and ongoing coordination and negotiation with all relevant stakeholders. Ultimately, findings and recommendations will be documented in a Water Supply Preliminary Engineering Report (PER) for the City. The primary tasks of this Agreement include:

- 1. Project Management and Coordination
- 2. Colorado River Source Evaluation

1. Project Management and Coordination

Garver will perform the following basic project management and administrative functions to facilitate the delivery of the Water Supply PER. Included in this Scope are:

- 1.1 Project Meetings and Workshops
 - a. Routine Project Meetings

Garver will prepare for and host routine project coordination meetings with the Owner and key internal staff to provide updates, received feedback, and track progress. Meetings will be facilitated in person or via Web-based meeting tools (Microsoft Teams), at the discretion of the Owner. [Assumption: Up to 2x meetings per month with 3 team members per meeting for six months]

b. Regulatory/ Stakeholder Coordination

Garver will prepare for and attend meetings with City staff, project stakeholders, and regulatory agencies listed below to present and perform coordination necessary to facilitate Project execution. The general purpose of this meeting will be introduce the project concept, determine coordination and permitting needs, receive feedback from the stakeholders on project

requirements, and determine additional constraints that will need to be considered during design. These items will be included in the project deliverable reports. Meeting frequency assumptions are listed for each relevant stakeholder.

- Texas Commission on Environmental Quality (TCEQ) [2x meetings with 3 team members]
- TxDOT [2x meetings with 3 team members]
- USACE [2x meetings with 3 team members]
- Travis and Williamson Counties [1x meeting with 3 team members (each County)]
- Cities of Austin, Round Rock and Manor [2x meetings with 3 team members (each City)]
- LCRA [6x meetings with 3 team members]

The level of effort for the above meetings includes coordination of meeting times, preparation of presentation materials and agendas, and preparation and distribution of meeting minutes. Meetings beyond those listed here or with stakeholders not listed here will be considered extra work. It is assumed that all meetings will be virtual.

c. Project Management Plan Development

Garver will develop a Project Management Plan (PMP), including a Quality Control Plan (QCP), and present to the Owner for review and approval. This Plan will establish a series of protocols to ensure successful delivery of the Water Supply PER.

d. Supplemental WIFIA Funding

Garver will coordinate and develop the draft application for the EPA's Water Infrastructure Financing and Innovation Act (WIFIA) Program in coordination with the City's effort to submit and close by December 2021. Garver cannot guarantee that funding for this project will be available or that the City will be successful in securing a WIFIA Loan.

2. Colorado River Source Expansion

Garver will complete preliminary engineering related to design of infrastructure for expanding the City's existing system for pumping raw water from the Colorado River to Lake Pflugerville.

2.1 Data Collection and Review

Garver will prepare and submit a data request memorandum for the Owner to provide information not already received on the Colorado River Intake system. Garver will review and summarize data such as record drawings, GIS files, and SCADA and pump operating data regarding the existing Colorado River pump station and pipeline. Garver is anticipating the need to conduct two (2) site visits to the Colorado River PS site and pipeline alignment.

2.2 Hydraulic Evaluation of Proposed Improvements

Garver will develop a hydraulic model of the raw water pumping system in the Innovyze InfoWater modeling platform for the purpose of analyzing the hydraulic impact of the expansion of the system. This model will be calibrated to observations made in the 2019 hydraulic analysis, pressure loggers provided and deployed by the City at four (4) locations along the pipeline alignment, as well as SCADA data. This data will be used to evaluate the following:

- a. The hydraulic impact on the system from the installation of a parallel pipeline, including determining the correct diameter of the proposed pipeline.
- b. Capacity improvements that can be gained from building out the existing pump station by adding a fourth pump.

- c. Capacity improvements that can be gained from the addition of a second pump station on site.
- 2.3 Pump Station Site Evaluation

Garver will conduct an evaluation of the existing Colorado River Pump Station, including an assessment of the condition of equipment and material based on data and observations made in Task 3.1. Garver will develop the following information for the PER:

- a. A summary of the condition and status of existing equipment, including mechanical and electrical components, structural condition of the building and wet well, and pumps, with the identification of any replacement or upgrade needs;
- b. An assessment of the feasibility of adding a fourth pump in the existing pump station, including any facility upgrades (electrical, mechanical, etc.) required to add a fourth pump;
- c. An evaluation of the feasibility of adding a second pump station on the existing site, including the development of a conceptual site layout, identification of property acquisition needs (if any), layout of conceptual yard piping from the CO River intake to the discharge lines, space requirements and site access, and flood protection;
- d. Conceptual exhibits showing the location and preliminary details of the proposed improvements [up to 6 sheets]; Exhibits will include site layout, conceptual piping and power and pump station mechanical layouts.
- a. Development of a phasing plan for the proposed improvements identified above, including near-term improvements to expand the existing pump station, and longer-term improvements for a new/expanded pump station facility to achieve buildout flowrates;
- f. Cost estimation of proposed improvements (AACE Class 3, +/- 30%);
- g. An evaluation of anticipated permitting and regulatory implications relevant to the proposed improvements.
- 2.4 Parallel Pipeline Route Analysis

Garver will conduct a detailed analysis of the existing pipeline alignment to assess the feasibility of adding a second, parallel pipeline with the dimensions identified in Task 3.2. This analysis will include the following:

- a. Development of a comprehensive GIS-based mapping basefile of the pipeline alignment, including the following data:
 - i. The latest aerial LiDAR data available from the Texas Natural Resources Information System (TNRIS), or other publicly available source(s)
 - ii. Property and easement boundary information from the Travis County Appraisal District (TCAD)
 - iii. Relevant and available GIS datasets from entities and utilities along the pipeline route, including (but not limited to) TxDOT, COA, Travis County, City of Manor, etc.
- b. Perform a conflict assessment of the pipeline route. The following will be performed for the proposed route:
 - i. Conflict assessment including the identification of boundary, roadway and environmental crossings (TxDOT, COA, UPRR, streams, etc.)
 - ii. Evaluation of current City of Pflugerville easements and ROW along the route based on City provided information and publicly available information from the Travis County Appraisal District. Review property acquisition needs. Garver requests the City provide

recent permanent and temporary easement acquisition costs per acre for cost estimation purposes. Title searches will be considered additional work.

- iii. Evaluation of regulatory and permitting implications for conflicts.
- c. Determine preliminary location and conceptual design of new outfall improvements at Lake Pflugerville
- d. Conduct an evaluation of pipeline material that looks at constructability, life cycle costs, corrosion protection (coatings, cathodic protection, etc.).
- e. Conceptual drawings of proposed parallel pipeline [up to 42 11" x 17" sheets; cover sheet, plan sheets @ 1" = 100' scale max, ; outfall plan view, detail].
- b. Cost estimation of proposed improvements (+/- 30%).

2.5 QA/QC

Garver will perform internal Quality Control reviews conforming to the Quality Control Plan on reports and plan sets before they are sent to the City.

2.6 Preliminary Engineering Report

Garver will develop a PER for the water supply options described above. This PER will include the following elements:

a. Development of project sequencing plan alternatives and timing.

Based on forecast demand and identified condition- or capacity-based phasing options, Garver will develop a recommended path forward for the interconnection with CoRR and the expansion of the Colorado River Intake system.

b. Water balance of Lake Pflugerville to 2050 planning horizon, showing impact of water supplies on reservoir capacity.

Garver will evaluate the utilization of Lake Pflugerville as a terminal reservoir under expanded supply conditions and develop a water balance forecast over time to illustrate changing operational conditions in the Lake. This analysis will take into account the best available information on forecast climatological effects, such as evaporation, but this scope does not include the development of climate models specific to this project.

As part of the Lake evaluation, Garver, through a subconsultant, will complete a bathymetric survey of the existing Lake conditions. The survey will provide a digital terrain model on State Plane coordinates to be used to compare between existing conditions and original design conditions. The comparison will be used to estimate sedimentation volumes and rates, and to quantify dredging operations that may need to occur in the future to restore effective lake volume. The survey will use a motorized boat and only be completed on the main Lake, east of Becker Farm Rd., approximately 155 acres. The base files from the survey will be provided to the Owner as a deliverable.

c. Cost and TBL summary.

Garver will present a summary of cost projections, including net present value (NPV) analysis for design and construction budgeting purposes (+/- 30%), as well as a triple-bottom-line analysis of the expanded water supply options studied herein.

d. Report Development.

Garver will develop a comprehensive report in the following stages:

i. Draft report will be provided in electronic format (PDF file).

- ii. Garver will schedule a workshop meeting with Owner to discuss the report findings. This workshop will be either in-person or virtual (via MS Teams) at the discretion of the Owner. During this workshop Garver and the Owner will
- iii. Final QA/QC
- iv. Final Report (addressing Owner comments) electronic format

Deliverables

As part of Task 3, Garver will produce the following deliverables:

- CO River Connection Draft PER
- CO River Connection Final PER
- Base Lake Pflugerville Bathymetric Survey Files
- Hydraulic Modeling Files

3. Additional Work

The following items are considered as additional work and can be performed by Garver upon request of the Owner. Upon receiving a request for additional work, Garver will prepare a scope, fee estimate and schedule for the proposed additional work. No additional work will be performed until Garver receives written notice to proceed from the Owner.

- City of Round Rock Emergency Interconnect Option analysis of this option will be considered additional work under a separate Supplemental Agreement, once the project is further defined with the City of Round Rock.
- HB 1437 Supply Options analysis of these options will be considered additional work under a separate Supplemental Agreement, once more information is received from LCRA.
- Deviations from bathymetric survey scope, including required use of non-motorized boat, or additional survey area outside the main Lake as defined above.
- Any survey of the existing or proposed pipeline routes or sites not specifically identified in this scope.
- Geotechnical investigation of proposed work sites.
- Preparation or submission of environment, cultural, or historical review material.
- Water quality evaluations.
- Subsurface Utility Engineering services to locate existing utilities outside coordination with known utility owners, available GIS data and owner provided data.
- Wetlands delineation or any other environmental study not specifically listed in this scope of work.
- Easement acquisition services, including the preparation of easement acquisition documents.
- Engineering services not specifically listed in this scope of work.

Schedule

The attached schedule details the anticipated milestones and delivery dates for each deliverable.

Payment

The estimated fee, as described in the attached Addendum to Exhibit B – Fee Schedule, will be paid as a lump sum on a percent-complete basis by task. Invoices will be submitted on a monthly basis, including a detailed progress report that will provide information on individual task completion progress for each billing period.

ID	Task Name	Duration	Start	Finish	May '2 18 25 2	1 9 .	16 23	Jun '21 30 6	13 20	Jul) 27	'21 4 1'	1 18	25 Aug	g '21 8 15	s 5 22 29	Sep '21 9 5
0	Colorado River Water Supply	146 days	Mon	Mon												
	Expansion		5/3/21	11/22/21												
1	Garver NTP	0 days	Mon 5/3/21	Mon 5/3/21	♦ 5/	3										
2	1.0. Project Management and Coordination	21 days	Mon 5/3/21	Tue 6/1/21	*			1								
3	1.1. Project Meetings and Workshops	21 days	Mon 5/3/21	Tue 6/1/21)			1								
29	2.0. Colorado River Source Expansion	136 days	Mon 5/17/21	Mon 11/22/21		Ť										
30	2.1. Data Collection and Review	25 days	Mon 5/17/21	Fri 6/18/21		Г										
36	2.2. Hydraulic Evaulation of Proposed Improvements	30 days	Mon 6/21/21	Fri 7/30/21					*							
40	2.3. Pump Station Site Evaluation	35 days	Mon 8/2/21	Fri 9/17/21									+			
48	2.4. Parallel Pipeline Route Analysis	45 days	Mon 7/19/21	Fri 9/17/21								*				
61	2.5. Quality Control Review	1 wk	Mon 9/20/21	Fri 9/24/21												
62	2.6. Preliminary Engineering Report	41 days	Mon 9/27/21	Mon 11/22/21												

Project: Colorado River Water S Date: Wed 4/14/21

Milestone

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Summary

Project Summary

Page 1



ADDENDUM TO EXHIBIT B - FEE SCHEDULE

City of Pflugerville

Colorado River Water Supply Expansion - Preliminary Engineering

	I Toohey	S Mobley	H Elliott	B Chang	T Stewart		C Limmer	M Walker	K Young	A Smith	M Casuga			
	Project Mgr			Electrical Lead		QA/QC	Proj Eng	Sr. CADD	Funding	Funding	CADD			
	\$210.00	\$176.00	\$270.00	\$260.00	\$136.00	\$260.00	\$116.00	\$108.00	\$139.00	\$125.00	\$85.00	GARVER	SUBCONSULTANT	
WORK TASK DESCRIPTION	\$210.00 hr.	\$176.00 hr.	\$270.00 hr.	\$280.00 hr.	\$130.00 hr.	\$260.00 hr.	\$116.00 hr.	\$108.00 hr.	\$139.00 hr.	\$125.00 hr.	\$65.00 hr.	LABOR	McGray & McGray Land Surveyors, Inc	TOTAL
Water Supply PER	1													
Project Management and Coordination														
1.1. Project Meetings and Workshops														
1.1.a. Routine Project Meetings	36	36	4	4	36							\$20,912		\$20,912
1.1.b. Regulatory / Stakeholder Coordination														
1.1.b.i. TCEQ (2 meetings)	4	4			8							\$2,632		\$2,632
1.1.b.ii. TxDOT (2 meetings)	4	4			8							\$2,632		\$2,632
1.1.b.iii. USACE (2 meetings)	4	4			8							\$2,632		\$2,632
1.1.b.iv. Travis County (1 meeting)	2	2			4							\$1,316		\$1,316
1.1.b.v. Williamson County (1 meeting)	2	2			4							\$1,316		\$1,316
1.1.b.vi. City of Austin (2 meetings)	4	4	-		8		-	-				\$2,632		\$2,632
1.1.b.vii. City of Round Rock (2 meetings)	4	4			8			-				\$2,632		\$2,632
1.1.b.vii. City of Manor (2 meetings)	4	4			8			-				\$2,632		\$2,632
1.1.b.ix. LCRA (6 meetings)	12	12 8			24 24	4		-				\$7,896 \$6,552		\$7,896 \$6,552
1.1.c. Project Management Plan Development	8	0			24	4			60	24		\$0,552		\$0,552
1.1.d. Supplemental WIFIA Funding Subtotal - Project Management and Coordination	88	84	4	4	0 148	4	0	0	60 60	24	0	\$67,892	\$0	\$67,892
Colorado River Source Expansion	00	04	4	4	140	4	0	0	00	24	U	\$67,092	\$U	\$07,09Z
2.1. Data Collection and Review														
2.1.a. Collection and Review City Documents and Files	4	12			24		24					\$9,000		\$9,000
2.1.b. Site Visits (x2)	12	12	6	6	12		24					\$9,444		\$9,444
2.1. Hydraulic Evaulation of Proposed Improvements			, , , , , , , , , , , , , , , , , , ,									φ0,111		\$0,111
2.2. Avgualite Evaluation of Proposed improvements 2.2. Develop Hydraulic Model	8	4			16							\$4,560		\$4,560
2.2.b. Existing System Evaluation/Calibration	8	4			16							\$4,560		\$4,560
2.2.c. Expansion Scenarios Evaluation	12	8			24							\$7,192		\$7,192
2.3. Pump Station Site Evaluation														
2.3.a. Existing Condition Summary		20	8	8			40					\$12,400		\$12,400
2.3.b. Feasibility Summary - Adding 4th Pump		20					40					\$8,160		\$8,160
2.3.c. Feasibility Summary - Adding New Pump Station		40					80					\$16,320		\$16,320
2.3.d. Conceptual Exhibits		4	2	2			8	20				\$4,852		\$4,852
2.3.e. Develop Phasing Plan		20					40					\$8,160		\$8,160
2.3.f. Cost Estimate (AACE Class 3)		4	2	2			8					\$2,692		\$2,692
2.3.g. Evaluation of Permitting and Regulatory Requirements		8					20					\$3,728		\$3,728
2.4. Parallel Pipeline Route Analysis														
2.4.a. Develop GIS-Based Maping of Pipe Alignment	4				12							\$2,472		\$2,472
2.4.b. Pipeline Route Conflict Assessment														
2.4.b.i. Identify Conflicts with Utilities, Streets, Rail Lines	12	8			24							\$7,192		\$7,192
2.4.b.ii. Evaluate Current CoP Easements and ROW; Determine Property Acquisition Needs		12			24							\$7,056		\$7,056
2.4.b.iii. Evaluate Regulatory and Permittings Impacts	4	2			16							\$3,368		\$3,368
2.4.c. Preliminary Outfall Location at Lake Pflugerville	2	8			8		20					\$5,236		\$5,236
2.4.d. Pipeline Material Evaluation	2	16	-		4		8	100				\$4,708		\$4,708
2.4.e. Conceptual Drawings	4	24	-		8		24	100				\$19,736		\$19,736
2.4.f. Cost Estimate (AACE Class 3)	2	8			8	0.1	16	-				\$4,772		\$4,772
2.5. Quality Control Review						24						\$6,240		\$6,240
2.6 Preliminary Engineering Report 2.6.1. Develop Project Sequencing Alternatives	4	4			8							\$2,632		\$2,632
2.6.1. Develop Project Sequencing Alternatives 2.6.2. Lake Pflugerville Water Balance	4	4			0							\$2,032		φ2,032
2.6.2.a. Bathymetric Survey	2	2			4			8				\$2,180	\$38,452	\$40,632
2.6.2.b. Conduct Water Balance	8	4			32		1	0				\$6,736	\$30,4 <u>3</u> 2	\$6,736
2.6.3. Cost Projections (NPV, TBL)	2	8	1		16		24				-	\$6,788		\$6,788
2.6.4. Report Development	-				10	<u> </u>								ψ0,700
2.6.4.i. Draft Report														<u> </u>
2.6.4.i.a. Draft Report	8	20			60		40				20	\$19,700		\$19,700
2.6.4.i.a. Draft QA/QC						12	1	1				\$3,120		\$3,120
2.6.4.ii. Draft Report Workshop	4	4	1	1	8		1	1				\$2.632		\$2,632
2.6.4.iii. Final QA/QC		1	1		-	6		1				\$1,560		\$1,560
2.6.4.iv. Final Report	4	4	t		24	1 -	24	1	1	1	1	\$7,592		\$7,592
Subtotal - Colorado River Source Expansion	114	280	18	18	348	42	416	128	0	0	20	\$204,788	\$38,452	\$243,240



April 7, 2021

Ian Toohey, PE Garver 3755 S. Capital of Texas Hwy Suite 325 Austin, TX 78758 (512) 485-0018

VIA EMAIL IPToohey@Garver.com

RE: Proposal for a Hydrographic Surveying Services within Lake Pflugerville, Travis County, Texas

Dear Mr. Toohey:

We appreciate the opportunity to present you with this proposal for the above referenced project. The following represents our understanding of the area to survey and scope of services. Our fee proposal follows.

Area to Survey:

• **AREA 1:** Approximately 155-acres of Lake area lying East of Becker Farm Road as highlighted in "Yellow" on attached Exhibit "A".

Survey Control:

• All data will be provided using the Texas State Plane, Horizontal data being based on NAD83, and Vertical data based on NAVD88 coordinate system, South Central Zone, with all coordinates in Grid. A Grid to Surface Scale factor will be noted.

Scope of Services:

Hydrographic (Bathymetric) Survey:

- 1. Elevations shall be obtained along grid lines approximately at 50-foot intervals using SonarMite MILSpec Echosounder which will be attached to a gasoline motor powered boat. This device will collect depths to the top of the ground, or silt surface (whichever comes first), along the computed gridlines.
- 2. Ground elevations at the surface will be collected to the top of the existing bank, along with break lines, to provide a digital topographic design file at 1-foot contour intervals.
- 3. We will obtain the inverts of Culvert Structures dimensions of the openings, along with the chord length.

Deliverables:

Mr. Toohey April 7, 2021 Page 2 of 3

- A. AutoCAD Civil 3D.
- B. The units of the drawing file shall be U.S. survey feet.
- C. XML File
- D. Survey Codes File

Fees:

Area 1 - Hydrographic Survey (Non-taxable):

2 Man Crew:	120 hrs @	\$165.00 /hr.= \$	19,800.00
Field Coordinator:	4 hrs @	\$98.00 /hr.= \$	392.00
Sr. Tech:	30 hrs @	\$96.00 /hr.= \$	2,880.00
Tech:	70 hrs @	\$90.00 /hr.= \$	6,300.00
LiDAR Technician:	60 hrs @	\$98.00 /hr.= \$	5,880.00
Boat with SonarMite:	4 dys @	\$500.00 /dy.= \$	2,000.00
RPLS:	6 hrs @	\$145.00 /hr.= \$	870.00
Project Manager:	2 hrs @	\$165.00 /hr.= \$	330.00
Aerial Drone:	1 dys @	\$3,500.00 /dy.= \$	3,500.00
		TOTAL =	38,452.00

ADDITIONAL SERVICES UPON REQUEST:

Area to Survey:

• AREA 2: Approximately 6.6-acres of land located west of Becker Farm Road as highlighted in "Green" on attached Exhibit "A".

Fees:

Area 2 - Hydrographic Survey (Non-taxable):

		TOTAL =	10,696.00
oject Manager:	2 hrs @	\$165.00 /hr.= \$	330.00
PLS:	4 hrs @	\$145.00 /hr.= \$	580.00
at with SonarMite:	1 dys @	\$500.00 /dy.= \$	500.00
ch:	30 hrs @	\$90.00 /hr.= \$	2,700.00
Tech:	15 hrs @	\$96.00 /hr.= \$	1,440.00
eld Coordinator:	2 hrs @	\$98.00 /hr.= \$	196.00
Man Crew:	30 hrs @	\$165.00 /hr.= \$	4,950.00

Once we receive notice to proceed, we will visit with you to establish a schedule for this project.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let me or Joe Webber know.

Sincerely,

Chris I. Conrad, RPLS

Vice President TBPELS Survey Firm #10095500

Authorized to Proceed by:

Signature

Date

Print Name

Title

CIC:JDW:pft:clb Encl.

