PROFESSIONAL SERVICES
SUPPLEMENTAL AGREEMENT # 4
FOR
SH 130 AND SH 45 WATER AND WASTEWATER EXTENSIONS

STATE OF TEXAS §
§
COUNTY 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 CP&Y, Inc. ("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 11th day of October, 2017 for the SH 130 and SH 45 Water and Wastewater Extensions project ("Project") in the amount of $366,631.00; and

WHEREAS, the City and Consultant executed a Supplemental Agreement # 1 for Professional Services for the Project in the amount of $0.00, to add Preliminary Engineering Services and remove Design Phase 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 $0.00, to extend the Term of the Agreement; and

WHEREAS, the City and Consultant executed a Supplementary Agreement # 3 for Professional Services for the Project in the amount of $34,560.00, to add Construction Materials Testing; and

WHEREAS, the City and Consultant desire to enter into a Supplementary Agreement # 4 for Professional Services for the Project in the amount of $201,365.00, to add professional services for the North Wilbarger Interceptor; and

WHEREAS, it has become necessary to amend the Agreement to modify the provisions for the Term, Scope of Services, Work Schedule, 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:

I.

Article II. Term shall be amended by changing the term of the Agreement to terminate on November 30, 2023, with the ratification and incorporation of the remaining terms of the Agreement.

Article III. Scope of Services and Attachment 1, shall be amended as set forth in the attached addendum to Attachment 1.

Article III. Work Schedule and Attachment 1, shall be amended as set forth in the attached addendum to Attachment 1.

Article IV. Compensation to Consultant and Attachment 1 (Fee Schedule), shall be amended by increasing by $201,365.00 the amount payable under the Agreement for a total of $602,556.00, as shown by the attached addendum to Attachment 1 (Fee Schedule).

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**	
		Mar. Vergara	
(Signature)		*(Signature)*	
Printed Name:	Sereniah Breland	Printed Name:	Marisa Treviño Vergara, PE
Title:	City Manager	Title:	Senior Vice President
Date:		Date:	3/14/2022

APPROVED AS TO FORM:

Megan R. Santee

Charles E. Zech
City Attorney
DENTON NAVARRO ROCHA BERNAL & ZECH, P.C.

SCOPE OF SERVICES
SUPPLEMENTAL AGREEMENT #4
FOR
SH 130 AND SH 45 WATER AND WASTEWATER EXTENSIONS

PFLUGERVILLE, TEXAS

Background

CP&Y, Inc. (Engineer) will provide additional engineering services for the City of Pflugerville's (City's) SH 130 and SH 45 Water and Wastewater Extensions project. The additional services are under the title N. Wilbarger Interceptor project, hereinafter referred to as the "Project." Engineering services will include the design, bid and construction phase services of a wastewater line extension totaling approximately 1,600 LF from an existing connection crossing from the east to the west side of SH 130 to provide service to the area northwest of the highway interchange of SH 130 and SH 45 in the Wilbarger Drainage Basin. The evaluation includes elements needed to develop alignment and design the extension, coordination with TxDOT and private utility owners, environmental engineering, survey, and subsurface utility engineering work. It is assumed that existing conditions will be such that bore and jack construction can be utilized for the trenchless segment. The work will be done in accordance with the City's Engineering Design Manual, Construction Standards, and Standard Specifications, Texas Commission on Environmental Quality (TCEQ) Rules, and Texas Department of Transportation (TxDOT) Utility Accommodation Rules.

I. Basic Services

A. PROJECT MANAGEMENT
   1. Project Progress Meetings: Attend, lead and document up to five (5) project progress meetings with the City at the City's Public Works Facility. Prepare meeting minutes including action item list. Meetings are anticipated to include a Project Kickoff Meeting, 60% Design Review meeting, 90% Design Review meeting and progress meetings.
   2. Project Administration: Internal design team meetings, coordination with subconsultants and perform project administration. Develop monthly project status report to be submitted with monthly invoices.

B. DESIGN PHASE SERVICES
   1. Data Review
      a. Review record drawings and shop drawings for utilities within the Project area. Existing data to be provided by the City.
   2. Coordination and Permitting
      a. TxDOT and Tolling Authority Coordination:

i. Coordinate with TxDOT and Tolling Authority in order to satisfy TxDOT permit requirements for ROW crossings.
ii. Provide design submittal through TxDOT's online Utility Installation Review (UIR) system. The permit will be obtained by the City of Pflugerville as the Owner.
iii. Incorporate TxDOT review comments into 90% design documents.

b. Utility Owner Coordination:
   i. Request existing record drawing information of potentially impacted utilities from SUE investigation and, if received, perform review for potential conflicts. If available, include timeline estimate for relocation of utilities identified as potential conflicts.
   ii. Review preliminary plans with private utility owners for potential conflicts. Modify alignments to avoid impacts to existing utilities based on utility owner requirements. Coordination and/or review of any relocations of existing utilities is not included in this scope of work.

c. Texas Commission on Environmental Quality (TCEQ) Permitting:
   i. Prepare and submit Summary Transmittal Letter and accompanying documentation to the TCEQ in accordance with state requirements.

d. Right of Way/Easement Coordination
   i. Coordination with City's Right of Way Services representative during right of entry coordination and easement acquisition process. Engineer will respond to requests from the City's Right of Way Services representative for the purpose of providing project information.
   ii. Attend bi-weekly status calls to discuss right of entry and easement acquisition status. (0.5 hours every 2 weeks)

3. Site Visits
   a. Make up to two (2) site visits during design to verify existing conditions.

4. Design Summary Technical Memorandum
   a. Develop a draft Design Summary Technical Memorandum and submit to City for Review
      i. Summarize updated capacity requirements, confirm pipe size and minimum slope to establish basis of design, and review serviceability to Wilbarger Basin development west of SH130 and north of SH45 in a technical memorandum.
      ii. Flow projections, capacity requirements, and system limitations will be provided by the City.
      iii. Develop a figure showing pipeline alignment and .
   b. Incorporate City comments into final Design Summary Technical Memorandum.

5. 60% Plans and Construction Documents
   a. Prepare cover sheet, project layout sheet, construction notes, preliminary traffic control, and preliminary erosion/sedimentation control sheets.

b. Incorporate City's comments from the SH-45 Water and Wastewater Extensions 60% review, and update plan and profile sheets of the water and wastewater lines. Plan and profile sheets identifying right-of-way, property easement, existing utilities, and topographic features will be prepared at scale 1" = 40' horizontal and 1" = 4' vertical.
c. Prepare City standard detail sheets.
d. Assemble City of Pflugerville standard specifications Table of Contents.
e. Prepare 60% Opinion of Probable Construction Cost.
f. Perform Internal QA/QC of plans and project documents and incorporate comments before submittal to City.

6. 90% Plans and Construction Documents
   a. Prepare 90% cover sheet, project layout sheet, construction notes, traffic control, and erosion/sedimentation control sheets.
   b. Incorporate City's 60% comments and prepare 90% plan and profile sheets of the water and wastewater lines.
   c. Prepare construction sequencing/phasing plan for project.
   d. Prepare City standard details and special detail. Special detail will include modified end seal and fiber conduit through casing, as directed by City.
   e. Prepare City of Pflugerville project documents and technical specifications as necessary, including Special Specifications or Special Provisions.
   f. Prepare 90% Opinion of Probable Construction Cost.
   g. Perform internal QA/QC of plans and contract documents and incorporate comments before submittal to City.

7. Issued for Bid Plans and Construction Documents
   a. Incorporate City's 90% comments into Plans and Contract Documents.
   b. Prepare final Construction Plans and Contract Documents for Bid Phase.

C. BID PHASE SERVICES
1. Coordinate with City for bid advertising on CivCast.
2. Develop agenda for Pre-Bid meeting and attend pre-bid meeting with City for interested Contractors.
3. Address and respond to Contractor's questions and interpretation of bid documents, and issue addenda as required.
4. Review Statement of Bidder Qualifications for three (3) lowest bidders in accordance with the bid documents.
5. Recommend award of contract or other actions to be taken by City.
6. Prepare conformed contract documents and construction plans

D. CONSTRUCTION PHASE SERVICES

1. Attend one (1) pre-construction conference with the Owner and the Contractor and issue meeting minutes to the attendees.
2. Engineer will attend up to six (6) monthly progress meetings with the Owner and the Contractor to review progress, outstanding action items and issues, and schedule. Engineer will issue meeting minutes to the attendees.
3. The Engineer will make periodic visits to the Project site and prepare site visit reports at intervals appropriate to the various stages of construction to observe the progress and quality of the Contractor's work. It is assumed for estimation purposes that the Engineer will visit the site once per month for a total of up to six (6) months. Based on the information obtained during such visits, the Engineer will endeavor to determine if the Contractor's work is proceeding in accordance with the Contract Documents. The purpose of such project site visits and such observations is to keep the Owner generally informed of the progress of the Contractor's work and to determine if the completed work of the Contractor conforms in general to the line and grade shown in the Construction Contract Documents. The Engineer shall not, during such visits or as a result of such observations, supervise, direct, or have control over the Contractor's work nor shall the Engineer have authority over or responsibility for the means, methods, techniques, sequences or procedures of construction selected by the Contractor, for safety precautions and programs incident to the work of the Contractor or for any failure of the Contractor to comply with rules, regulations, ordinances, codes or orders applicable to the Contractor's performance of the work. The Contractor shall have sole authority over and responsibility for:
    a. the means, methods, techniques, sequences, and procedures of construction,
    b. safety precautions and programs incident to the construction, and
    c. compliance with rules, regulations, ordinances, codes and orders applicable to the construction. The Engineer neither guarantees the performance of the Contractor nor assumes any responsibility for the Contractor's failure to furnish and perform its work in accordance with the Construction Contract Documents.
4. Review Contractor's Requests for Information (RFIs) and respond accordingly. Such clarifications and interpretations will be consistent with the intent and reasonably inferable from the Construction Contract Documents.
5. Review and make recommendations to the Owner regarding change orders as appropriate and when directed by the Owner, and prepare Change Orders as reasonably required. Preparation of Change Orders, which result from significant changes in the scope, extent, or character of the Project designed by the Engineer, is not included in this scope of services.
6. Review samples, catalog data, schedules, submittals, shop drawings, laboratory, shop and mill tests of material and test equipment and other data as required by the Construction Contract Documents, but only for conformance with the design concept indicated in the Construction Contract Documents. Such reviews will not extend to means, methods, techniques, sequences or procedures of construction or to safety

precautions and programs incident thereto. Engineer will prepare and maintain submittal log.

7. Review Contractor's monthly pay request as needed after review and acceptance by the Owner's field representative.
8. Upon notice from the Contractor that the Contractor's work is ready for its intended use, conduct, in company with the Owner's representative and the Contractor, a site visit to determine if the work is substantially complete. If the Owner and the Engineer consider the work substantially complete, issue a certificate of substantial completion containing a list of required tasks for the Contractor to complete prior to issuance of certificate of final completion. Conduct a final walk through together with the Owner and the Contractor to determine if the work has reached final completion so that the Engineer may recommend final payment to the Contractor. If appropriate, make recommendations to the Owner for final payment to the Contractor.
9. Receive, review and transmit to the Owner Close-Out Documents, including maintenance and operating instructions, warranties and guarantees, close-out checklist items, marked up record documents received from the Contractor, which reflect field changes to the conformed documents. The Engineer will review the documents to ascertain, to the best of the Engineer's knowledge and belief, that the reflected field changes are complete and correct.
10. Prepare Project record drawings incorporating compiled change orders and field changes that are received from the Owner and the Contractor. One (1) full size sets of prints, one (1) PDF of "Record Drawings," and one AutoCAD file will be submitted by the Engineer to the Owner.

II. Deliverables

A. Submit draft and final Design Summary Technical Memorandum
   1. Three hard copies and one PDF of the draft document will be provided to the City for review and comments.
   2. Three hard copies and one PDF of the final document will be submitted.

B. Submit 60% plans and specification documents for City's review and comments.
   1. Three sets of half size plans, three sets of specifications and one PDF of plans and specifications will be submitted to the City for review and comments.

C. Submit 90% plans and contract documents for City's review and comments.
   1. Three sets of half size plans, three sets of specifications and one PDF of plans and specifications will be submitted to the City for review and comments.

D. Submit Issued for Bid plans and contract documents for City's review and comments.
   1. Three sets of half size plans, three sets of specifications and one PDF of plans and specifications will be submitted to the City.

III. Special Services

ENVIRONMENTAL EVALUATION (CP&Y)

1. Waters of the U.S. Determination

   Previous delineations and reporting for waters of the U.S. will be updated, based on the time that has passed since the previous field delineations. Specific tasks include the following:

   a. Field Delineation – The CONSULTANT shall conduct a follow-up site visit to confirm/supplement data collected during the previous field delineations. Delineations will be conducted in accordance with the 1987 Corps of Engineers Wetland Delineation Manual along with the 2010 Regional Supplement for the Great Plains Region. The ordinary high water mark and wetland boundary, if present, will be mapped using the Collector application for iPad and Geneq SXBlue ll Global Positioning System (GPS) unit with sub-meter accuracy. If wetlands are encountered, a minimum of one soil station inside and outside the wetland boundary will be taken.

   a. Waters of the U.S. Delineation Report – The CONSULTANT shall update the previously prepared Water Resources Report with all pertinent information collected during the follow-up field visit. This would include updated wetland data forms, photos, maps, and Preliminary Jurisdictional Determination Form, if needed.

B. SURVEYING (Inland Geodetics, LLC)

1. Topographic Survey
   a. Utilize survey monuments as established from previous work on this project. The coordinate values will be reconciled to NAD 83 Texas State Plane Coordinates. Central Zone 4203, US Survey feet and NAVD 88 for vertical control datums. These values will be derived from GPS SmartNet VMS observations at each point that include geographic positions of northing, easting and orthometric heights.
   b. Verify current conditions of topographic survey performed in 2018.
   c. Locate SUE test holes as directed in one mobilization.
   d. Collect spot elevations along the project route for any changes in current conditions, including back of curbs, driveways, visible utilities, drainage structures, centerline of roads, trees 8” and up, and any other hard surfaced improvements within the defined area, grade breaks, flowlines of watercourses, and other significant features relevant to the project (MH inverts, if any). The collected data will include spot elevations and breaklines sufficient to generate and/or merge to a 1 foot contour interval DTM for the project.
   e. Deliverables will include an AudoCAD 3D file with break-lines and associated XML file. A DTM file processed to 1.0 foot contours will be provided and the associated spot point data in ASCII format. A list of benchmarks and project control coordinates will be included.

2. Boundary Surveying
    a. Perform sufficient research of the affected properties to reconstruct the existing boundary lines from record information. Additionally, prepare a list of affected landowners with tract numbers, legal descriptions, etc. for use by the project team.
    b. Prepare a property schematic generated from record data for the total project to include a list of property owners.
    c. Perform sufficient survey field boundary surveying for the project length to locate the record boundaries developed in items 2.a. and 2.b. on the ground.
    d. Perform sufficient boundary analysis of the gathered field work to depict the reconstructed boundaries. Prepare metes and bounds descriptions with accompanying survey plats for 3 permanent easements along the project route. This scope of work assumes that Temporary Construction Easements will be referenced as adjacent to and parallel with the described permanent easement and will be handled as a statement within the metes and bounds descriptions. Other easements that may be required will be proposed as supplemental services. This scope of work does not include title review or property acquisition.

C. SUBSURFACE UTILITY ENGINEERING (CP&Y)
1. Records Research
    a. Perform Quality Level 'C' (QL-C) and 'D' (QL-D) SUE in accordance with ASCE Standard 38-02 in the project location to assist with alignment evaluation.
        (i) Contact the applicable “one call” agency and acquire records from all available utility owners including local municipalities (cities, counties, etc.), and Client.
        (ii) Perform in-field visual site inspection. Compare utility record information with actual field conditions. Record indications of additional utility infrastructure and visual discrepancies with record drawings.
        (iii) Interview available utility owners for needed clarification, resolution of found discrepancies, and details not provided on the record drawings.
2. Designating & Locating Effort
    a. Perform Quality Level ‘B’ (QL-B) SUE in the project location to assist with designation effort.
        (i) Select and employ the appropriate suite of industry standard geophysical equipment to search for existing utilities within the limits specified on the project. For metallic/conductive utilities (e.g. steel pipe, electrical cable, telephone cable) electromagnetic induction, and magnetic equipment will be employed. CP&Y will attempt to designate non-metallic/non-conductive utilities using other proven methods, such as rodding and/or probing. As agreed to with the Client, this scope of work includes mapping of all utilities within the work limits. Utility service lines and irrigation lines are not included in this scope.
        (ii) Interpret the surface geophysics and mark the indications of utilities with paint on the ground surface for subsequent depiction on deliverable utility maps.

(iii) Record all marks on electronic field sketches and correlate such data with utility records and above ground appurtenances obtained from visual inspection to resolve differences and discrepancies. Denote any utilities found where ownership/utility type is not available from records as "unknown" facilities.

(iv) Survey the existing utility designating marks and above ground utility appurtenances according to the project control and record the data for subsequent depiction on the plan deliverables.

(v) Maintenance of traffic control for temporary lane closures is not included in the scope of work.

b. Employ vacuum excavation to verify the horizontal and vertical location of the existing utilities at **three (3)** test holes (Quality Level A).

- Once each utility is located, CP&Y will record the utility type, size, material, depth to top and general direction.
- Each test hole will be assigned a unique ID number and will be marked with rebar/cap. A survey lath labeled with the test hole ID number and other pertinent utility information will be placed at each test hole location.
- If rock or concrete is encountered during the excavation and CP&Y is not able to excavate through our normal test hole procedures, the Client will be immediately notified of the field condition. Excavation in rock or to a depth greater than 13 feet may require additional measures, include a backhoe, shoring, etc. CP&Y will contact the client to discuss other options and approaches if excavation encounters issues such as cave-ins or ground water.
- CP&Y will vacuum down to obtain the required information, and then replace material removed, mechanically-tamped in 6-inch lifts. Asphalt surfaces will be repaired with asphalt cold patch and concrete cores will be epoxied back in place, flush with surrounding surface. If restoration efforts are needed beyond what is described above CP&Y shall be notified in writing prior to mobilizing to the field.
- Survey the final utility test hole locations according to the project control once all vacuum excavation field work has been completed.
- TxDOT ROW/excavation permits are anticipated for completion of test holes.
- Maintenance of traffic for lane closures is not included in the scope of work. If traffic control is determined to be needed, the client will be notified prior to the work being scheduled.
- Coring of asphalt/concrete pavement is not anticipated for the scope of work. If it is determined that coring is needed, a revised fee will be provided for approval prior to the work beginning.

IV. Additional Services

A. Based on project activities, the project may require a Nationwide Permit (NWP) #12 (Utility Line Activities), along with submittal of a Pre-Construction Notification (PCN) to the USACE. Specific permitting tasks include the following:
   1. Pre-Application Meeting – the CONSULTANT shall attend one (1) pre-application meeting with the USACE to discuss the project impacts, avoidance/minimization measures, permitting requirements, and potential mitigation options, if required.
   2. PCN Preparation - the CONSULTANT shall prepare and submit a PCN to the USACE in accordance with NWP General Condition 32. The USACE Fort Worth District application submittal form for NWP #12 will be utilized for this task. The submittal will include the results of the threatened/endangered species assessment, cultural resource assessment, waters of the U.S. assessment, plan and section view drawings, TCEQ Section 401 Water Quality Certification, and Conceptual Mitigation Plan. This task also includes responding to USACE comments and requests for additional information. Additionally, it is assumed any required compensatory mitigation will be accomplished through the purchase of mitigation bank credits from a USACE-approved mitigation bank.

B. The Geotechnical Investigation Report for City of Pflugerville SH 130 and SH 45 Water and Wastewater Extensions, dated 2/7/2019, will be utilized for this project. No additional geotechnical investigation is included in the scope of work. Any additional geotechnical investigations, testing or reporting will be included under a supplementary agreement.

C. Engineer will develop at the request of the Owner any changes, alterations or modifications to the Project which appear to be advisable and feasible based on unexpected field conditions and in the best interest of the Owner.

D. Work not described in the basic services must be approved by supplemental amendment to this Contract by the Owner before the Engineer undertakes it. If the Engineer is of the opinion that any work is beyond the scope of this Contract and constitutes additional work, the Engineer shall promptly notify the Owner of that opinion, in writing. In the event the City finds that such work does constitute additional work, then the City shall so advise the Engineer, in writing, and shall provide extra compensation to the Engineer for the additional work as provided under a supplemental amendment.

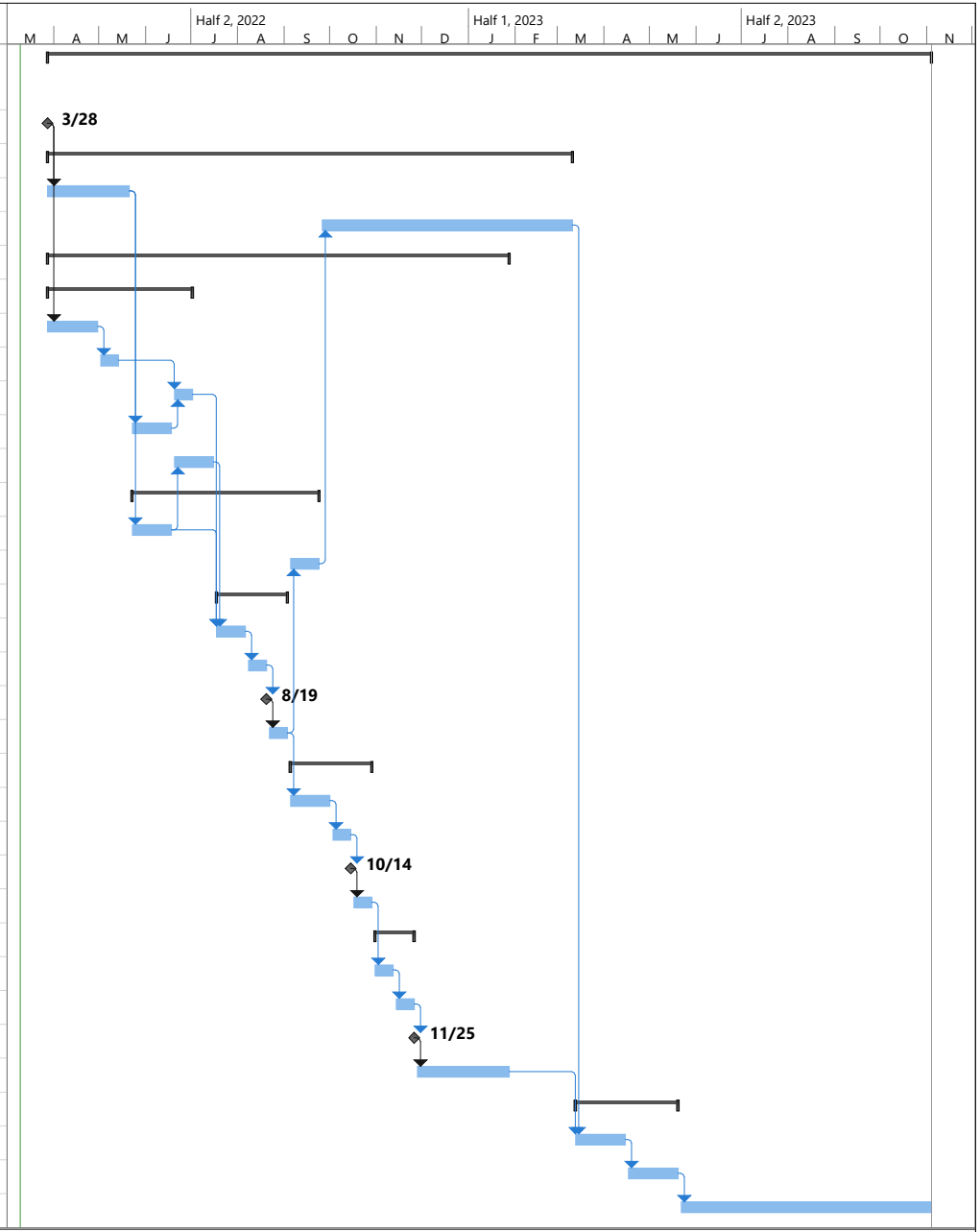
V. Project Schedule

A. See attached.

VI. Fee Schedule

A. See attached.

ID	Task Name	Duration	Start	Finish	Predecessors
1	**N. Wilbarger Interceptor (SH 130 & SH 45 Water/Wastewater Extensions)**	**420 days**	**Mon 3/28/22**	**Fri 11/3/23**	
2	**NTP**	**0 days**	**Mon 3/28/22**	**Mon 3/28/22**	
3	**PROPERTY OWNER COORDINATION (BY OTHERS)**	**250 days**	**Mon 3/28/22**	**Fri 3/10/23**	
4	Right of Entry (By Others)	40 days	Mon 3/28/22	Fri 5/20/22	2
5	Easement Acquisition (By Others)	6 mons	Mon 9/26/22	Fri 3/10/23	15
6	**DESIGN PHASE**	**220 days**	**Mon 3/28/22**	**Fri 1/27/23**	
7	**Design Summary Technical Memorandum**	**70 days**	**Mon 3/28/22**	**Fri 7/1/22**	
8	Draft TM	25 days	Mon 3/28/22	Fri 4/29/22	2
9	City Review	10 days	Mon 5/2/22	Fri 5/13/22	8
10	Final TM	10 days	Mon 6/20/22	Fri 7/1/22	9,11
11	Environmental Evaluation	20 days	Mon 5/23/22	Fri 6/17/22	4
12	Subsurface Utility Engineering	20 days	Mon 6/20/22	Fri 7/15/22	14
13	**Survey**	**90 days**	**Mon 5/23/22**	**Fri 9/23/22**	
14	Topographic Survey Verification	20 days	Mon 5/23/22	Fri 6/17/22	4
15	Metes and Bounds	15 days	Mon 9/5/22	Fri 9/23/22	20
16	**60% Design Resubmittal**	**35 days**	**Mon 7/18/22**	**Fri 9/2/22**	
17	Develop 60% Design	15 days	Mon 7/18/22	Fri 8/5/22	14,12,10
18	60% Design Resubmittal QC	10 days	Mon 8/8/22	Fri 8/19/22	17
19	Submit 60% Design Resubmittal to City	0 days	Fri 8/19/22	Fri 8/19/22	18
20	City Review 60% Design Resubmittal	10 days	Mon 8/22/22	Fri 9/2/22	19
21	**90% Design**	**40 days**	**Mon 9/5/22**	**Fri 10/28/22**	
22	Develop 90% Design	20 days	Mon 9/5/22	Fri 9/30/22	20
23	90% Design QC	10 days	Mon 10/3/22	Fri 10/14/22	22
24	90% Design to City	0 days	Fri 10/14/22	Fri 10/14/22	23
25	City Review 90% Design	10 days	Mon 10/17/22	Fri 10/28/22	24
26	**Issued for Bid Documents**	**20 days**	**Mon 10/31/22**	**Fri 11/25/22**	
27	Develop Issued for Bid Documents	10 days	Mon 10/31/22	Fri 11/11/22	25
28	Issued for Bid Documents QC	10 days	Mon 11/14/22	Fri 11/25/22	27
29	Submit Bid Documents to City	0 days	Fri 11/25/22	Fri 11/25/22	28
30	Permit Reviews	45 days	Mon 11/28/22	Fri 1/27/23	29
31	**BIDDING**	**50 days**	**Mon 3/13/23**	**Fri 5/19/23**	
32	Advertise	25 days	Mon 3/13/23	Fri 4/14/23	5,30
33	Contract Coordination	25 days	Mon 4/17/23	Fri 5/19/23	32
34	**CONSTRUCTION**	**6 mons**	**Mon 5/22/23**	**Fri 11/3/23**	33



Project: Project Schedule_2018-
Date: Thu 3/10/22

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	

City of Pflugerville
N. Wilbarger Interceptor

FEE SUMMARY

Task Description	CP&Y Cost	Subconsultant Cost Survey (Inland Geodetics)	Total Cost
BASIC SERVICES			
A. PROJECT MANAGEMENT	$ 21,324.00	$ -	$ 21,324.00
B. DESIGN PHASE SERVICES	$ 89,972.00	$ -	$ 89,972.00
C. BID PHASE SERVICES	$ 15,194.00	$ -	$ 15,194.00
D. CONSTRUCTION PHASE SERVICES	$ 38,312.00	$ -	$ 38,312.00
EXPENSES	$ 435.00	$ -	$ 435.00
SUB-TOTAL BASIC ENGINEERING SERVICES	$ 165,237.00	$ -	$ 165,237.00
SPECIAL SERVICES			
A Environmental Evaluation	$ 2,800.00	$ -	$ 2,800.00
B.1 Topographic Survey	$ 1,000.00	$ 3,974.00	$ 4,974.00
B.2 Boundary Survey/Metes and Bounds Descriptions	$ 845.00	$ 12,348.00	$ 13,193.00
C Subsurface Utility Engineering	$ 4,816.00	$ -	$ 4,816.00
SUB-TOTAL SPECIAL SERVICES	$ 9,461.00	$ 16,322.00	$ 25,783.00
TOTAL (BASIC & SPECIAL SERVICES & EXPENSES)	**$ 174,698.00**	**$ 16,322.00**	**$ 191,020.00**
ADDITIONAL SERVICES (IF REQUIRED)			
A. USACE Pre-Construction Notification	$ 10,345.00	$ -	$ 10,345.00
SUB-TOTAL ADDITIONAL SERVICES	$ 10,345.00	$ -	$ 10,345.00
GRAND TOTAL (BASIC, SPECIAL & ADDITIONAL SERVICES, EXPENSES)	**$ 185,043.00**	**$ 16,322.00**	**$ 201,365.00**

City of Pflugerville
N. Wilbarger Interceptor

Fee Breakdown - CP&Y Basic Services

Project Phase	Task Description	Principal	QC Reviewer	Senior Engineer	Project Manager	Project Engineer	EIT	CAD Technician	Admin	Total Labor Hours	Total Direct Labor Costs	Total Cost by Phase
		$230.00	$200.00	$200.00	$190.00	$155.00	$125.00	$115.00	$68.00			
I. BASIC SERVICES												
A.	**PROJECT MANAGEMENT**											**$ 21,324.00**
1.	Project Progress Meetings	2			10	10	20			42	$ 6,410.00	
2.	Project Administration	2		18	36	18			18	92	$ 14,914.00	
B.	**DESIGN PHASE SERVICES**											**$ 89,972.00**
1.	Data Review				2	4	4			10	$ 1,500.00	
2.	Coordination and Permitting											
a.	*TxDOT and Tolling Authority Coordination*			4	4	8	8			24	$ 3,800.00	
b.	*Utility Owner Coordination*			2	4	4	8			18	$ 2,780.00	
c.	*TCEQ Permitting*		1		1	2				4	$ 700.00	
d.	*Right of Way / Easement Coordination*				16	8	12			36	$ 5,780.00	
3.	Site Visits				4	4	4			12	$ 1,880.00	
4.	Design Summary Technical Memorandum											
a.	*Draft Design Summary Technical Memorandum*		2		8	12	16	16		54	$ 7,620.00	
b.	*Final Design Summary Technical Memorandum*		1		2	4	8	8		23	$ 3,120.00	
5.	60% Plans and Construction Documents											
a.	Cover, Layout, Notes, Traffic Control & ESC Sheets			4	2	8	12	16		42	$ 5,760.00	
b.	Prepare 60% Plan and Profile Sheets			4	8	12	12	24		60	$ 8,440.00	
c.	Prepare Standard Detail Sheets				1	2	4	6		13	$ 1,690.00	
d.	Specifications Table of Contents					2	4		2	8	$ 946.00	
e.	Opinion of Probable Construction Cost			2	2	4	8			16	$ 2,400.00	
f.	Perform/Incorporate Internal QA/QC of 60% Project Documents		8	2	2	2	4	8		26	$ 4,110.00	
6.	90% Plans and Construction Documents											
a.	Cover, Layout, Notes, Traffic Control & ESC Sheets				2	4	8	12		26	$ 3,380.00	
b.	Prepare 90% Plan and Profile Sheets			2	4	8	8	24		46	$ 6,160.00	
c.	Prepare Construction Sequencing Plan			2	4	4	4	4		18	$ 2,740.00	
d.	Prepare Standard and Special Detail Sheets			1	2	4	4	8		19	$ 2,620.00	
e.	Technical Specifications			2	2	8	12		4	28	$ 3,792.00	
f.	Opinion of Probable Construction Cost			1	2	4	4			11	$ 1,700.00	
g.	Perform/Incorporate Internal QA/QC of 90% Project Documents		8	2	2	2	4	8		26	$ 4,110.00	
7.	Issued for Bid Plans and Construction Documents											
a.	Incorporate 90% Comments into final documents			1	2	4	8	16		31	$ 4,040.00	
b.	Prepare Plans and Contract Documents for Bidding		4	4	8	16	16	24	8	80	$ 10,904.00	
										765	**$ 111,296.00**	**$ 111,296.00**

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Fee Breakdown - CP&Y Basic Services

Project Phase	Task Description	Principal	QC Reviewer	Senior Engineer	Project Manager	Project Engineer	EIT	CAD Technician	Admin	Total Labor Hours	Total Direct Labor Costs	Total Cost by Phase
		$230.00	$200.00	$200.00	$190.00	$155.00	$125.00	$115.00	$68.00			
I. BASIC SERVICES												
C.	**BID PHASE SERVICES**											**$ 15,194.00**
1.	Coordinate Bid Advertising				2	4	2			8	$ 1,250.00	
2.	Pre-Bid Meeting				2	4	8			14	$ 2,000.00	
3.	Contractor Questions and Addenda		2	4	4	8	8	8	4	38	$ 5,392.00	
4.	Review Low Bidder Qualifications				2	4	8			14	$ 2,000.00	
5.	Recommend Award of Contract				2	4				6	$ 1,000.00	
6	Prepare Conformed Documents		2		2	4	4	12	4	28	$ 3,552.00	
D.	**CONSTRUCTION PHASE SERVICES**											**$ 38,312.00**
1.	Pre-Construction Conference				4	4	8			16	$ 2,380.00	
2.	Monthly Progress Meetings				12	18				30	$ 5,070.00	
3.	Site Visits				12	12				24	$ 4,140.00	
4.	RFI Responses		2		8	4	16	2	4	36	$ 5,042.00	
5.	Change Orders		2		4	2	12	4		24	$ 3,430.00	
6.	Submittal Reviews			4	8	12	24			48	$ 7,180.00	
7.	Review Monthly Pay Requests				6	6				12	$ 2,070.00	
8.	Final Inspection and Recommendation				4	4	8			16	$ 2,380.00	
9.	Contractor Close-Out Coordination				4	4	8			16	$ 2,380.00	
10.	Record Drawings		2		4	8		16		30	$ 4,240.00	
										360	**$ 53,506.00**	**$ 53,506.00**

City of Pflugerville
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Fee Breakdown - Special Services

Project Phase	Task Description	Environmental Manager	Sr. Environ. Planner	Environ. Planner II	GIS Technician	SUE Sr. Project Manager	SUE Project Manager	SUE Utility Tech	SUE CADD Tech	SUE Clerical Support	Project Manager	Project Engineer	Total Labor Hours	Total CP&Y Direct Labor Costs	QL-A Pothole (per Each)	Total Sub Cost (Breakdown Attached)[1]	Total Cost by Phase
		$202.00	$120.00	$78.00	$72.00	$215.00	$140.00	$110.00	$110.00	$84.00	$190.00	$155.00			$2,221.67		
III. Special Services																	
A.	**ENVIRONMENTAL EVALUATION**																**$ 2,800.00**
1.	Waters of the U.S. Determination	2	8	8	6						2		26	$ 2,800.00	$ -	$ -	
B.	**SURVEYING**																**$ 18,167.00**
1.	Topographic Survey										2	4	6	$ 1,000.00		$ 3,974.00	
2.	Boundary Surveying/Metes and Bounds										2	3	5	$ 845.00		$ 12,348.00	
C.	**SUBSURFACE UTILITY ENGINEERING**																**$ 11,481.00**
1.	Records Research (QL-C,D)					1	4	8	8	2		2	25	$ 3,013.00		$ -	
2.	Designating and Locating (QL-A,B)					1	4	1	4	2		2	14	$ 1,803.00		$ -	
	QL-A Test Holes (3 total)												0	$ -	$ 6,665.00		
													76	**$ 9,461.00**		**$ 16,322.00**	**$ 32,448.00**

[1] Inland Geodetics, LLC

Note: Inland Geodetics, LLC amount assumes City will provide Sales and Use Tax Exemption Certification

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Expenses

Expense Item	Unit	Unit Cost	Amount	Total Cost
8 1/2" X 11" B/W Paper Copies	sheet	$ 0.10	1,000	$ 100.00
11" X 17" B/W Paper Copies	sheet	$ 0.15	300	$ 45.00
8 1/2" X 11" Color Paper Copies	sheet	$ 1.00	12	$ 12.00
11" X 17" Color Paper Copies	sheet	$ 1.80	20	$ 36.00
Express Mail (Standard)	each	$ 15.00	3	$ 45.00
Mileage	mile	$ 0.59	200	$ 117.00
GPS Rental	day	$ 80.00	1	$ 80.00
TOTAL DIRECT EXPENSES				**$ 435.00**