

STATE OF TEXAS §
 §
 COUNTY OF WILLIAMSON §

**SUPPLEMENTAL CONTRACT NO. 1
 TO CONTRACT FOR ENGINEERING SERVICES**

FIRM: HALFF ASSOCIATES, INC. (“Engineer”)
ADDRESS: 13620 Briarwick Drive, Suite 100, Austin, TX 78729
PROJECT: Eagles Nest Street

This Supplemental Contract No. 1 to Contract for Engineering Services is made by and between the City of Round Rock, Texas, hereinafter called the “City” and Halff Associates, Inc., hereinafter called the “Engineer.”

WHEREAS, the City and Engineer executed a Contract for Engineering Services, hereinafter called the “Contract,” on the 22nd day of June, 2023 for the Eagles Nest Street Project in the amount of \$899,644.00; and

WHEREAS, it has become necessary to amend the Contract to modify the provisions for the scope of services and to increase the compensation by \$581,948.00 to a total of \$1,481,592.00;

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

I.

Article 1, City Services and Exhibit A, City Services shall be amended as set forth in the attached Addendum To Exhibit A.

II.


Article 2, Engineering Services and Exhibit B, Engineering Services shall be amended as set forth in the attached Addendum to Exhibit B. Exhibit C, Work Schedule shall be amended as set forth in the attached Addendum to Exhibit C.

III.

Article 4, Compensation and Exhibit D, Fee Schedule shall be amended by increasing by \$581,948.00 the lump sum amount payable under the Contract for a total of \$1,481,592.00, as shown by the attached Addendum to Exhibit D.

IN WITNESS WHEREOF, the City and the Engineer have executed this Supplemental Contract in duplicate.

HALFF ASSOCIATES, INC.

By: 

Eric J. Ratzman, Vice President

12/13/2023

Date _____

CITY OF ROUND ROCK

APPROVED AS TO FORM:

By: _____
Craig Morgan, Mayor

Stephanie L. Sandre, City Attorney

Date

**ADDENDUM TO EXHIBIT A
City Services**

**EAGLES NEST PHASE 1
SCHEMATIC AND ENVIRONMENTAL
FROM MAYS STREET TO CYPRESS BLVD**

The City will furnish to the Engineer the following information and/or perform the following tasks:

- Provide a tax exemption form for the purchase of taxable goods and services.
- Post and maintain project information on City website, as appropriate.
- Review Engineer's PS&E submittals in accordance with the schedule.
- Assist the Engineer in obtaining property rights-of-entry for ground surveys and environmental investigations.
- Support project development with external stakeholders such other agencies and property owners.
- Assist the Engineer, as needed, in obtaining data and information from the State, County, and/or other franchise utility companies.
- Post and pay for notices in local publications for bidding, and host bid documents on purchasing or other website.
- Coordinate and communicate project items and progress to other city departments, as appropriate.

**ADDENDUM TO EXHIBIT B
Engineering Services**

**EAGLES NEST PHASE 1
FINAL DESIGN AND PERMITTING
FROM MAYS STREET TO CYPRESS BLVD**

For the scope of services for this contract, the Engineer shall provide professional services for Final Design and Permitting. Engineer will provide services described in further detail as follows:

Task 1 - PROJECT MANAGEMENT

- 1.1. Project Administration
 - The Project Manager shall communicate with the city project manager.
 - Prepare project meeting summaries for applicable meetings during the project development process.
 - Keep records of project records and make available to the city as needed.
 - Review submittals for Quality Assurance/Quality Control
- 1.2. Monthly Progress and Invoice
 - Create and submit monthly invoices in required city format.
 - Prepare monthly progress reports for submission with the invoices to provide a written account of the progress made to date on the project
- 1.3. Sub-consultant Management
 - Prepare and execute contracts with sub-consultants, monitor sub-consultants work, review and approve of sub-consultant invoices.

Task 2 –SUBSURFACE UTILITY ENGINEERING

- 2.1. Subsurface Utility Engineering and Investigations (SUE) – Halff will perform SUE in accordance with ASCE/UESI/CI 38-22 “Standard Guideline for Investigating and Documenting Existing Utilities.” This standard defines the following Quality Levels:

Quality Level-A: Precise horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Minimally intrusive excavation equipment is typically used to minimize the potential for utility damage. A precise horizontal and vertical location, as well as other utility attributes, is shown on plan documents.

Quality Level-B: Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities. Quality Level-B data should be reproducible by surface geophysics at any point of their depiction. This information is surveyed to applicable tolerances defined by the project and reduced onto plan documents.

Quality Level-C: Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to Quality Level-D information.

Quality Level-D: Information derived from existing records or oral recollections.

Quality Level-A Utility Test Holes (Vacuum Excavation):

Up to three (3) test holes with a maximum depth of 15 feet will be performed on various utilities at locations specified by the city. Halff will cut up to a 12" square test hole, excavate down to utility, record the depth to top of utility, backfill & compact the hole, and restore the surface to its original condition. An iron rod with cap or "x-cut" will be set to mark the approximate centerline location of the utility. A jackhammer will be utilized for work to be performed in asphalt and concrete areas. This Scope of Services includes all test holes being performed under one (1) mobilization.

If test holes are requested on non-conductive/untonable utilities depicted as Quality Level-D where the horizontal location is assumed, Halff will coordinate with the city and respective utility owner, on-site personnel if private property and available records to pinpoint the location to perform the test hole. Due to the concrete/ground conditions, one (1) attempt shall be made, which may or may not expose the subject utility. Should the utility not be exposed, Halff will coordinate with the city for direction on digging additional test holes if required and shall be compensated for each test hole dug.

Quality Level-B Utility Designating:

Halff will designate the approximate horizontal position of conductive/tonable utilities within the project limits using geophysical prospecting equipment and mark using paint and/or pin flags. We anticipate the designation of approximately 4,000 linear feet of utilities including buried communication, electric, natural gas, traffic signal, water, waste water/sanitary sewer, and storm drain/storm sewer. Designation of irrigation lines, HDPE lines, gathering lines, asbestos concrete and/or pvc lines, as well as pvc lines without tracer wire or access are not part of this Scope of Services.

Because of limited utility record information and the possibility of non-conductive/un-tonable utilities, Halff cannot guarantee all utilities will be found and marked within the project limits.

Quality Level-C Surveying:

Quality Level-B Utility Designation paint markings, pin flags, and above ground utility appurtenances as well the iron rod with cap or “x-cut” for Quality Level-A Test Holes will be surveyed and tied utilizing project survey control provided by the city.

Quality Level-D Records Research:

Available Records will be provided to Halff by the City. Halff will perform additional utility record research as needed to successfully complete the project.

Because there are situations where the utility does not have a metallic composition, a metallic tracer line attached, or access to insert a tracer line, the approximate location of the utility may be determined by the use of utility records and direct correspondence with the utility owner/representative. In these areas, the information will be considered Quality Level-D, depicted according to utility record information only.

SUE Field Manager / Professional Engineer:

A SUE Field Manager will be on-site for a portion of this project for field crew supervision, field quality control, and coordination with on-site personnel. A Professional Engineer will be responsible for QA/QC, management of the contract, coordination with the project team and signing the final deliverables if required.

SUE Deliverables / CADD:

Deliverables for the Quality Level-B 2D Utility Designation will be 11-in. x 17-in. SUE plan sheets depicting the findings of the investigation. Deliverables for the Quality Level-A Test Hole excavations will be a 8.5-in. x 11-in. Test Hole Data Form for each Test Hole performed indicating depth, size, location, and other notable characteristics of the utility. Electronic files will be provided in MicroStation and/or AutoCAD format along with PDFs and photos. A Utility Investigation Report will be provided in accordance with ASCE/UESI/CI 75-22.

Permitting:

Permits will be coordinated with the City of Round Rock as required.

Work Zone Traffic Control:

Halff will provide standard temporary work zone traffic control consisting of cones and free-standing signage for this project. This Scope of Services does not include lane closure(s), flag person(s), changeable message board(s), arrow board(s) and/or engineered traffic control plans.

Schedule:

Halff will complete the Quality Level-B Utility Designation investigation within Thirty (30) calendar days upon receipt of written notice to proceed from the City.

Halff will complete the Quality Level-A Test Hole services within Thirty (30) calendar days upon receipt of approved permits from the City.

Due to uncontrollable factors such as ground conditions, weather, and safety hazards, Halff reserves the right to request more time to facilitate field efforts should one of these circumstances exist.

Work performed in the right-of-way shall be performed Monday through Friday, 8 am to 4 pm and Saturday and Sunday, 7 am to 7 pm barring inclement weather, and with prior City of Round Rock approval.

Task 3 – PLANS, SPECIFICATIONS, & ESTIMATES (PS&E)

Design will be based upon the 120-foot wide ROW as shown in the schematic.

3.1. 60% PS&E – Engineer shall prepare and submit 60% PS&E including:

- Title and Index Sheet
- Quantity Summary Sheets
- Typical Sections
- Survey Control Sheet
- Removal Sheets
- Paving Plan and Profiles Sheets
- Runoff Calculation Sheets
- Storm Sewer Plan and Profile Sheets
- Storm Sewer and Inlet Calculation Sheets
- SW3P Cover Sheet and Erosion and Sedimentation Control Sheets
- Landscape Planning and Irrigation Layout Sheets
- Water and Wastewater adjustment (provide utility sheets showing manholes and valves proposed to be raised/adjusted to grade)
- Roadway Illumination and Conduit Sheets
- Signing and Striping Sheets
- Signal Layout and Elevation Sheets
- Traffic Control Plans
- Project Specific Detail Sheets
- Roadway Cross Section Sheets (50 ft spacing)
- Opinion of Probable Construction Cost (OPCC)
- Bid Form and Specifications for inclusion in Project Manual (front-end contract documents to be provided by the city)

3.2. 90% PS&E – Engineer shall prepare and submit 90% PS&E including

- Updated 90% with comments addressed from 60% review
- Bid Form and Specifications for inclusion in Project Manual (front-end contract documents to be provided by the city)
- Preparation of updated OPCC

3.3. 100% PS&E – Engineer shall prepare and submit 100% PS&E signed and sealed by Professional Engineers licensed in the State of Texas including:

- Final plans with comments addressed from 90% review
- Final Bid Form and Specifications in Project Manual
- Final updated OPCC

3.4. Signal Design – The traffic signal design will be performed for the intersection of North Mays Street and Extension of Eagle Nest Street. The mast arms and traffic signals will be designed based on TxDOT and City of Round Rock Standards. The bid documents will only include the infrastructure in the ground such as foundations, boxes, and conduits (poles, arms, and conductors would be installed in a future contract). This scope is based upon being able to use the TxDOT and City of Round Rock Standards. If site or soil conditions require an alternate design, additional structural analysis will be required as an additional service. Engineer will:

- Meet with City staff to discuss signal design requirements.
- Produce signal design plans CAD for the intersection and submit to the City for review and comment at the following design levels:
 - o 90 percent plans
 - o 100 percent final plans
- Prepare PDF files of the signal plans for each design level listed above and submit them electronically to the City.
- Provide PDF and CAD files of final plans and one set of original signed and sealed plans.
- Prepare a quantities summary, bid item spreadsheet and estimate of construction cost for the traffic signal design.
- Conduct up to three (3) meetings or conference calls with the City as needed to discuss the signal design plans at the design levels

Signal timing is excluded from the scope and would be performed as an additional service.

3.5. Illumination Design – The design shall include of the following:

- Electrical service coordination with the local utility
- Electrical service design for city owned streetlights with branch circuiting and controls as required by the City of Round Rock Design manual
- Illumination design as required using typical TxDOT Design requirements as a guide
- Specifications shall comply with TxDOT standards
- Site Plan(s) illustrating photometric reports, voltage calculations, fixture locations, circuiting, and electrical service point(s).
- Conduit Plan for future use:
 - Two (2) four inch (4”) spare conduits for the entire length of project with ground boxes every 500 feet
- Detail and Schedule Sheets
- Provide no more than three (3) submittals during the Design phase (60% PS&E, 90% PS&E, and 100% PS&E)
- Specifications will be provided per TxDOT standards

Consultant will provide the following deliverables:

- The 60% deliverable will include luminaire selection and photometric calculation sheet. Written approval from Owner is required to proceed to

the following deliverable milestone.

- The 90% deliverable will include an electrical site plan with electrical service requirements to illumination fixtures, circuiting requirements, and voltage drop calculations,
 - The 100% deliverable will include final intradisciplinary coordination, final quality control review and addressing final Owner comments.
- 3.6. Structural – Engineer shall provide calculations confirming the depths of illumination pole foundation for one pole type and height (30 foot).
- 3.7. Landscaping – Based on the City approved Concept Plan, Consultant will provide the following services at the 60, 90, and 100% submittals:
- Landscape Plan – Consultant will prepare landscape plans to provide street trees (approximately 100 trees) and landscaping of the medians (similar to Eagles Nest Street east of Cypress Blvd). The plant palette will prioritize the use of low maintenance and low water usage plants. The quantity, species, size and spacing of all plant material will be specified in a plant schedule on the plan. Details and notes for the proper installation of plants will be included.
 - Irrigation Plans – Consultant will prepare irrigation plans and details to irrigate all proposed landscape improvements. City to provide the consultant with a list of approved irrigation equipment to be used.
- 3.8. Water Pollution Abatement Plan (WPAP) – Engineer will provide calculations, sizing of water quality treatment devices (Storm Trooper units) for water quality, and prepare/submit a WPAP to TCEQ along with application fee.
- 3.9. RAS Review - See attached proposal from Altura Solutions regarding efforts for project registration with TDLR and inspection for compliance with the TAS.

Task 4 – Environmental

- 4.1 Waters of U.S. delineation and Jurisdictional Assessment – Proposed right-of-way for the eastern segment of the City of Round Rock Eagles Nest Project between Cypress Boulevard and Mays Street in Round Rock, Williamson County, Texas (study area) will be evaluated to determine the existence of water features that may be regulated as waters of the U.S., including wetlands (WOTUS) by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA).

Evaluations will include desktop analyses of National Wetlands Inventory (NWI) maps, National Hydrography Datasets (NHD) from the U.S. Geological Survey (USGS), USGS topographic maps, soil survey reports and aerial photography, and site reconnaissance. Half will perform an on-the-ground delineation of water resources (e.g., streams, creeks, wetlands, ponds, etc.)

within the study area and evaluate potential impacts requiring permitting under the CWA in accordance with the USACE's "Wetland Delineation Manual, Technical report Y-87-1" and the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0)." Halff will determine whether potential impacts would comply with requirements of available Nationwide Permits (NWP) for the proposed project, and whether a pre-construction notification (PCN) to the USACE would be necessary.

Under this task, Halff will prepare a Waters of the U.S. Delineation and Jurisdictional Assessment Memorandum summarizing the desktop analyses, site reconnaissance, conclusions whether WOTUS are located within the study area, anticipated project impacts and permitting needs, and whether coordination with USACE pursuant to the CWA would be required.

This scope of work does not include the preparation of WOTUS Delineation Report or a PCN to the USACE. The proposed project is anticipated to either not require authorization under an NWP or qualify for NWP 14 authorization without the need to submit a PCN; however, should a PCN become necessary, such services would be completed as supplemental services.

- 4.2 Threatened and Endangered Species Habitat Assessment – To demonstrate compliance with the Endangered Species Act (ESA), Texas state code, Migratory Bird Treaty Act (MBTA), and Bald and Golden Eagle Protection Act (BGEPA); Halff proposes to conduct a threatened and endangered species habitat assessment by performing a literature review of state and federally-listed threatened and endangered species for Williamson County, Texas and evaluating the project area for suitable habitat for identified species. The investigation would include a search request from the Texas Natural Diversity Database (TXNDD). TXNDD is a record of occurrences for rare plant and animal resources that is based upon the best available information to Texas Parks and Wildlife Department (TPWD). Halff would also obtain official species information from United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) and TPWD Rare, Threatened, or Endangered Species of Texas (RTEST) by County for Williamson County. The TXNDD, RTEST and IPaC data are to support determinations of potential species occurrence for the project area and provide specific information where available. Since an absence in the TXNDD data does not equate to an absence of a species within the project area, general observations during field visits will also be utilized.

Under this task, Halff will:

1. Determine whether preferred habitat or designated critical habitat for any listed species is present within the project area. Determine whether any listed species are likely to be present within the project area. Determine whether development within the project area affects or has

the potential to affect state or federally listed species.

2. Prepare Threatened and Endangered Species Habitat Assessment Memorandum summarizing the desktop analysis, site reconnaissance, conclusions whether species potentially occur within the study area, and recommendations for agency coordination if needed.

This task does not include presence/absence surveys, formal/informal consultation with the USFWS, or coordination with TPWD. If required, such services would be completed as supplemental services.

4.3 Cultural Resources

- Prepare and submit an (ACT) permit application and appropriate scope of work for THC review.
- Conduct archaeological field investigations within the project area per State requirements. Formal National Register of Historic Places or State Antiquities Landmark (SAL) eligibility testing, and the documentation, removal or repatriation of human burials is not anticipated, and therefore excluded from this scope.
- Prepare and submit for THC review a report that summarizes the results of the investigations and provides recommendations regarding project effects to archeological historic properties.
- Curate all project records and materials per ACT requirements.

4.4 Karst Feature Survey and Geologic Assessment

See attached proposal from SWCA, Inc. regarding efforts for the karst feature survey and geologic assessment.

Task 5 - Utility Coordination

5.1. Utility Coordination

Utility Adjustment Coordination shall include utility coordination meetings with the city, individual meeting for up to (6) six individual utility companies (see identified list below), communication, and coordination with the design team.

<u>Utility Name</u>	<u>Type of Facility</u>
ATMOS	Gas
AT&T	Telecom
SPECTRUM	Telecom
ONCOR	Power
CITY OF ROUND ROCK WTR	Water
CITY OF ROUND ROCK WW	Wastewater

1. The Utility Coordinator shall create agendas and provide exhibits for all coordination meetings with utility companies as directed by the city.

2. The Utility Coordinator shall develop and maintain a contact list of all existing utility owners within the project limits.
3. The Utility Coordinator shall develop and maintain a PS&E level standard Utility Conflict Matrix (UCM) showing each utility conflict, with location, size, and recommended SUE quality level needed to further review and to resolve conflicts during the PS&E phase.
4. The Utility Coordinator shall develop a Utility Conflict Exhibit in 2D depicting the utility conflict locations within the project limits.
5. The Utility Coordinator shall develop a Proposed Utility Layout Exhibit in 2D depicting all proposed utility adjustments overlaid the proposed improvements showing any existing utilities that are to remain in place, be removed, or be abandoned.
6. The Utility Coordinator shall review proposed utility adjustments and evaluate alternatives.
7. The Utility Coordinator shall
 - a. Ensure all utility facilities found in conflict have been resolved.
 - b. Ensure all stakeholders have concurred with the various alignments.
 - c. Establish the sequence of construction for all utility relocation work whether it is included as a part of the Highway Construction or not.
 - d. Determine which utilities will be built as part of the contract.
 - e. Determine which facilities will be relocated prior to construction.
8. No utilities are anticipated to be reimbursable, so reimbursable agreements are excluded.
9. Deliverables:
 - Utility Contact List in PDF format
 - Utility Conflict Matrix at each milestone deliverable at 30%, 60%, 90% and Final
 - Utility Conflict Exhibit on 11x17 sheets and include callouts to indicate the conflict ID#, utility owner, type of line (water, sewer, high pressure gas, etc.)
 - Proposed Utility Layout in PDF and MicroStation DGN format.
 - Progress meeting minutes in PDF format
 - Utility Certifications and Special Provisions (if applicable)

Task 6 – Bid Phase Services

- 6.1 Bid Phase – Engineer to provide bid phase services to the city for advertisement in an electronic format, such as Civcast. Services include:
 - Prepare Bid notice for advertisement and publish twice in local paper
 - Attend and present at pre-bid meeting at the city

- Provide answers to bidder questions and prepare addendums
- Prepare bid tabulation and recommend award to lowest responsive bidder

ASSUMPTIONS

- The dedication of the right-of-way or easements by the developer eliminates the need for ROW parcel legal descriptions, sketches, and ROW strip maps.
- Slopes easements to be provided by developer, if needed; no retaining walls are proposed.
- Detention is not needed due to the outfall being directly into the Upper Brushy Creek WCID flood control reservoir (Dam 11)
- A separate permit would not be required from UBCWCID due to the city already having a Master Development Permit.

EXHIBIT B OVERALL SUMMARY OF DELIVERABLES:

- 60%, 90%, and 100% PS&E submittals
- Waters of the U.S. Delineation and Jurisdictional Assessment Memorandum
- Threatened and Endangered Species Habitat Assessment Memorandum
- Archeological report for THC review
- WPAP application submittal with fee and obtain approval from TCEQ
- Utility Conflict Matrix and clearance of all utility conflicts
- TDLR Registration, fee, and compliance with Texas Accessibility Standards

Services Excluded from this Scope of Services:

- Public involvement and/or outreach
- Construction phase services
- City development permitting
- Design of franchise utilities
- Preparation/submittal of a Stormwater Pollution Prevention Plan (SWPPP)
- CLOMR/LOMR (not anticipated to be needed)

The Engineer will perform the services to be provided under this agreement out of Engineer's office(s) as listed below:

Office Location
 Halff Associates, Inc.
 13620 Briarwick Drive, Suite 100
 Austin, TX 78729

Sub-Consultants:

Altura Solutions
 SWCA

ADDENDUM TO EXHIBIT C
Work Schedule

Attached Behind This Page

EAGLES NEST STREET PHASE 1 DESIGN SCHEDULE

CITY OF ROUND ROCK
HALFF AVO: 46767.002

PROJECT TASKS	2023			2024												2025												
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
COUNCIL AWARD OF PHASE 1 DESIGN				★																								
ARCHEOLOGY AND GEOLOGY INVESTIGATION																												
ARCHEOLOGY REPORT & SUBMITTAL TO THC																												
THC REVIEW AND APPROVAL																												
SURVEYING AND BOUNDARY WORK																												
S.U.E. FIELD WORK																												
SCHEMATIC REFINEMENT																												
REVIEW																												
60% PS&E																												
REVIEW																												
90% PS&E																												
REVIEW																												
100% PS&E																												
WPAP PREP AND SUBMITTAL																												
WPAP REVIEW/APPROVAL BY TCEQ																												
UTILITY COORDINATION																												
UTILITY RELOCATION																												
BIDDING/CONTRACTING																												
CONSTRUCTION																												

ADDENDUM TO EXHIBIT D
Fee Schedule

Attached Behind This Page

ADDENDUM TO EXHIBIT D

CITY OF ROUND ROCK

**EAGLES NEST PHASE 1
SCHEMATIC AND ENVIRONMENTAL
FROM MAYS STREET TO CYPRESS BLVD**

FEE ESTIMATE

Fees to be billed on a lump sum basis monthly as a percentage of work completed to date.

TASK 1 – Project Administration	\$ 58,304
TASK 2 – SUE Services	\$ 18,763
TASK 3 – PS&E	\$ 394,098
TASK 4 – Environmental	\$ 30,585
TASK 5 – Utility Coordination	\$ 65,710
TASK 6 – Bid Phase Services	\$ 14,488
TOTAL FEE	\$ 581,948

ADDENDUM to EXHIBIT D
Detailed Fee Schedule
(Lump Sum Contract)

Eagles Nest Street - Phase 1 Final Design	Senior Project Advisor	Sr Review Engineer	Project Manager	Senior Engineer	Project Engineer	Junior Engineer	Graduate Engineer (EIT)	Senior Environmental Manager	Environmental Scientist II	Environmental Scientist I	Landscape Manager	Senior Landscape Architect	Junior Landscape Architect	Utility Manager	Utility Coordinator	SUE Crew Mgr	SUE Field Mgr	Designating 1-Man Crew	2-man SUE / Survey Crew	CADD / GIS Tech	Contract Admin Specialist	Admin Assistant	Task Hours	LABOR COSTS	SUB COSTS	DIRECT COSTS	TOTAL	
HOURLY RATES	\$290.00	\$220.00	\$207.00	\$195.00	\$176.00	\$155.00	\$130.00	\$180.00	\$125.00	\$95.00	\$210.00	\$190.00	\$130.00	\$215.00	\$160.00	\$150.00	\$125.00	\$110.00	\$190.00	\$125.00	\$110.00	\$75.00						
TASK DESCRIPTIONS																												
TASK 1 - Project Administration																												
1.1 Project Administration and Management	48	48	120																		16	8	216	\$49,320.00			\$49,320.00	
1.2 Monthly progress reports and invoicing			24																				48	\$7,328.00			\$7,328.00	
1.3 Sub-consultant management			8																				8	\$1,656.00			\$1,656.00	
																							0	\$0.00			\$0.00	
TASK 1 SUBTOTAL	48	48	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	8	272	\$58,304.00	\$0.00	\$0.00	\$58,304.00	
TASK 2 - SUE																												
2.1 Subsurface Utility Engineering			4											1		8	12	60	10	12	2		109	\$13,963.00		\$4,800.00	\$18,763.00	
																							0	\$0.00			\$0.00	
TASK 2 SUBTOTAL	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	8	12	60	10	12	2	0	109	\$13,963.00	\$0.00	\$4,800.00	\$18,763.00	
TASK 3 - PS&E																												
3.1 60% PS&E			72		208	380	458													60			1178	\$177,452.00		\$300.00	\$177,752.00	
3.2 90% PS&E			40		80	120	148													40			428	\$65,200.00			\$65,200.00	
3.3 100% PS&E			16		40	40	48													8			152	\$23,792.00			\$23,792.00	
3.4 Signal Design		48				68	96																212	\$33,580.00			\$33,580.00	
3.5 Illumination Design			16	52		82																	150	\$26,162.00			\$26,162.00	
3.6 Structural for illumination				8	16																		24	\$4,376.00			\$4,376.00	
3.7 Landscaping											20	48	160										228	\$34,120.00			\$34,120.00	
3.8 WPAP			8		60		80																148	\$22,616.00	\$5,000.00		\$27,616.00	
3.9 RAS																							0	\$0.00	\$1,500.00		\$1,500.00	
																							0	\$0.00			\$0.00	
TASK 3 SUBTOTAL	0	48	152	60	404	690	830	0	0	0	20	48	160	0	0	0	0	0	0	0	0	0	2520	\$387,298.00	\$1,500.00	\$5,300.00	\$394,098.00	
TASK 4 - Environmental																												
4.1 Waters of U.S. delineation and Jurisdictional Assessment								9	12	15												2	38	\$4,695.00			\$4,695.00	
4.2 Threatened and Endangered Species Habitat Assessment								7	12	15													34	\$4,185.00			\$4,185.00	
4.3 Cultural Resources and THC								12	24	16												4	56	\$6,980.00		\$3,525.00	\$10,505.00	
4.4 Karst Feature Survey and Geologic Assessment																							0	\$0.00	\$11,200.00		\$11,200.00	
																							0	\$0.00			\$0.00	
TASK 4 SUBTOTAL	0	0	0	0	0	0	0	28	48	46	0	0	0	0	0	0	0	0	0	0	0	6	128	\$15,860.00	\$11,200.00	\$3,525.00	\$30,585.00	
TASK 5 - Utility Coordination																												
5.1 Utility Coordination														74	280								394	\$65,710.00			\$65,710.00	
TASK 5 SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	74	280	0	0	0	0	0	0	0	394	\$65,710.00	\$0.00	\$0.00	\$65,710.00	
TASK 6 - Bid Phase																												
6.1 Bid Phase services			24			48	16																88	\$14,488.00			\$14,488.00	
TASK 6 SUBTOTAL	0	0	24	0	0	48	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	\$14,488.00	\$0.00	\$0.00	\$14,488.00	
TOTAL Estimated Hours	48	96	332	60	404	738	846	28	48	46	20	48	160	75	280	8	12	60	10	160	18	14	3511					
TOTAL Estimated Fee	\$ 13,920.00	\$ 21,120.00	\$ 68,724.00	\$ 11,700.00	\$ 71,104.00	\$ 114,390.00	\$ 109,980.00	\$ 5,040.00	\$ 6,000.00	\$ 4,370.00	\$ 4,200.00	\$ 9,120.00	\$ 20,800.00	\$ 16,125.00	\$ 44,800.00	\$ 1,200.00	\$ 1,500.00	\$ 6,600.00	\$ 1,900.00	\$ 20,000.00	\$ 1,980.00	\$ 1,050.00			\$555,623.00	\$12,700.00	\$13,625.00	\$581,948.00
HOURLY RATES	\$290.00	\$220.00	\$207.00	\$195.00	\$176.00	\$155.00	\$130.00	\$180.00	\$125.00	\$95.00	\$210.00	\$190.00	\$130.00	\$215.00	\$160.00	\$150.00	\$125.00	\$110.00	\$190.00	\$125.00	\$110.00	\$75.00						

Direct Costs	
Archeological permit, record curation, and materials	\$3,525.00
SUE Test holes (3 at \$1,600/EA)	\$4,800.00
WPAP application fee	\$5,000.00
Mileage, printing, and travel	\$300.00
Total	\$ 13,625.00