TC9B

Contract No. Born) Bengar Blu) - Phase 4

Checklist



Prior to Initiation of Work



Signed and Executed Agreement

Scope of Services – Appendix A

- Exhibit A Services to be provided by County
- Exhibit B Services to be provided by Engineer
- Exhibit C Work Schedule
- Exhibit D Fee Schedule

Production Schedule – Exhibit IV

→ Hourly Rates of Engineer – Exhibit II

Work Authorization - Attachment A to Exhibit I Supplemental Work Authorization for Additional Work (if applicable)

- Data to be provided to Engineer by County
 - o Plans
 - o Maps
 - Studies
 - Reports
 - Field Notes
 - o Statistics
 - Computations

Contractors Qualification Statement - Appendix B pro- gualification Statement - Short 755)
Insurance

Worker's Compensation

Commercial General Liability Insurance

Automobile Liability Insurance

- o Professional Liability Errors and Omissions Insurance
- Self Insurance Documentation
- o Insurance Certificates for Subcontractors and/or Sub-consultants
- Approval of Insurance by County

Course of Work

- Original Engineering Work Product submittal
- "Completed" Engineering Work Product
- □ "Accepted" Engineering Work Product
- Modifications and/or Changes for Approval of Engineering Work Product
- □ "Approved" Engineering Work Product
- Revisions to Work Product
- □ Seal of Endorsement on all Engineering Work Product
- Data necessary for applications or documentation for permits and/or grants to be provided by Engineer to County

Contract	No.		

- □ Notice of Suspension
- □ Notice of Reinstatement
- Notice of Termination
- Notice of Staffing Changes
- □ Written Report of Accident

Documentation for Payment

- □ Internal Revenue Form W-9
- □ Invoice for Services Rendered
 - o Supporting Documentation
 - o Report of Completion Percentage
- □ Invoice for Reimbursables
 - o Proof of prior payment by Engineer of Reimbursables

Contract	No.		
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PROFESSIONAL SERVICES AGREEMENT

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PROFESSIONAL SERVICES AGREEMENT

STATE OF TEXAS §

COUNTY OF WILLIAMSON §

This Professional Services Agreement (the "Agreement") is made and entered into this day by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and TCB INC. (the "Engineer").

WHEREAS, County proposes to construct Ronald Reagan Boulevard from SH 195 to IH 35;

WHEREAS, *County* desires to obtain professional services for roadway planning and design (*the* "*Project*");

WHEREAS, *Engineer* has the professional ability and expertise to fulfill the requirements of the *Project*, and to counsel *County* in the selection and analysis of cost-effective alternatives.

NOW, THEREFORE, *County* and *Engineer* agree to the performance of the professional services by *Engineer* and the payment for these services by *County* as set forth herein.

Section I Employment of the Engineer

County agrees to employ Engineer and Engineer agrees to perform professional engineering services for the Project as stated in the Sections to follow. As a condition to employment, it is specifically agreed that any disputes arising hereunder shall be submitted to the County Judge or his designee and/or agent as designated in the Scope of Services in Appendix A, or as otherwise designated (individually or collectively the "County Judge"). The County Judge shall have complete authority for the purpose of resolving technical matters. In all other cases, the decision of the Williamson County Commissioners Court shall be final and binding, subject to any civil remedies otherwise deemed appropriate by the parties hereto.

Section II Basic Services of the Engineer

- A. In consideration of the compensation herein provided, *Engineer* shall perform professional engineering services for the *Project*, which are acceptable to the *County Judge*, based on standard engineering practices and the scope of work described on the Exhibits attached to this Agreement. *Engineer* shall also serve as *County's* professional engineer in those phases of the *Project* to which this Agreement applies and will consult with and give advice to *County* during the performance of *Engineer's* services.
- B. **Engineer** shall not commence work until **Engineer** has been thoroughly briefed on the scope of the **Project** and has been notified in writing by the **County Judge** to proceed, as evidenced by a Work Authorization substantially in the form of Attachment A to Exhibit I.

- C. County shall provide Engineer with all existing plans, maps, studies, reports, field notes, statistics, computations, and other data in its possession relative to existing facilities and to this particular Project at no cost to Engineer; however, any and all such information shall remain the property of County and shall be returned, if the County Judge so instructs Engineer.
- D. *Engineer* shall perform the following Basic Scope of Services:
 - 1. The basic Scope of Services shall generally consist of all elements of work, materials and equipment required for the development of the *Project*, including any Public Hearings, satisfactory to the *County Judge* and the County's Commissioners Court, in accordance with the requirements, policies, and general practices of Williamson County.
 - 2. The following documents shall be used in the development of the *Project*:
 - a. TxDOT 2003 Texas Manual of Uniform Traffic Control Devices for Streets and Highways, including latest revisions
 - b. Texas Department of Transportation Construction Manual, latest edition
 - c. Texas Department of Transportation's Standard Specifications for Construction of Highways, Streets, and Bridges, 2004 (English units)
 - d. National Environmental Policy Act (NEPA)
 - e. Texas Accessibility Standards (TAS) of the Architectural Barriers Act, Article 9102, Texas Civil Statutes, Effective April 4, 1994, including latest revisions
 - f. Americans with Disabilities Act (ADA) Regulations
 - g. U.S. Army Corps Regulations
 - h. Southern Building Code, latest edition
 - i. Uniform Building Code. Note: Williamson County will use the 1997 Uniform Building Code (May 1, 1997), including latest revisions, as a guide for design.
 - j. National Electrical Code, latest edition
 - k. Williamson County Design Criteria & Project Development Manual, latest edition
 - 1. TxDOT Bridge Division Foundation Manual, latest edition
 - 3. Design Criteria Order of Precedence: Design Criteria for the *Project* development shall be according to the following descending order of precedence: Williamson County Design Criteria, Texas Department of Transportation Standards and Specifications, local City standards and specifications.
 - 4. As part of the Scope of Services, *Engineer* shall submit its work products to *County* for review at regular intervals.
 - 5. The detailed Scope of Services for the *Project* is set forth herein as Appendix A to this Agreement, and is expressly incorporated and made a part hereof.

Section III Fee schedule

- A. For and in consideration of the performance by *Engineer* of the work described in the Scope of Services, *County* shall pay and *Engineer* shall receive the fee set forth in Exhibit I. The fee is based upon the hourly rates set forth in Exhibit II. Exhibits I and II are attached hereto and made a part hereof. Invoices shall be submitted by *Engineer* on a monthly basis and are due upon presentation of all items required hereunder, and shall be considered past due if not paid within thirty (30) calendar days of the due date.
- B. For the performance of services not specifically described in the Scope of Services *Engineer* shall receive the additional services compensation described in Exhibit III, which is attached hereto and made a part hereof. In the event of any dispute over the classification of *Engineer's* services as basic or additional services under this agreement, the decision of the *County Judge* shall be final and binding on *Engineer*.

Section IV Period of Service

- A. *Engineer* shall perform the professional services described in Appendix A, the Scope of Services, in accordance with the Production Schedule attached hereto as Exhibit IV and made a part hereof.
- B. This Agreement shall become effective upon the date approved by *County* and will remain in full force and effect for the period required for the design, construction contract award and construction of the *Project*, including warranty periods and any extensions of time, unless terminated earlier as provided for herein. *Engineer* shall complete all design work as described in the Scope of Services within 365 calendar days from receipt by *Engineer* of *County's* written Work Authorization and in accordance with the production timeline included in the Scope of Services.
- C. Neither *Engineer* nor *County* shall be responsible for delays caused by "Acts of God", non-county governmental processes, national emergency, or any other causes beyond *Engineer's* or *County's* reasonable control. Upon the discovery of such an event, *Engineer* shall notify *County*, and attend a special meeting with the *County Judge* to propose a program for a solution to the problem, and, if necessary, to establish an estimated period of time of suspension or extension of the work. A written request for an extension of time, when properly documented and justified by the circumstances, will be granted by the *County Judge*.
- D. **County** may suspend the work at any time for any reason without terminating this Agreement by giving written Notice of Suspension and the work may be reinstated and this Agreement resumed in full force and effect within sixty (60) days of receipt by **Engineer** of written Notice of Reinstatement from **County**. **Engineer**, upon receipt of a Notice of Suspension shall follow the procedures described in the attached Exhibit V, which is attached hereto and

made a part hereof. In the event such suspension of the *Project* or the *Engineer's* services hereunder extends for a period of ninety (90) days or more, consecutive or in the aggregate, *Engineer* may terminate this Agreement in writing and such termination shall be treated as a Notice of Termination as provided herein.

- E. Either party may terminate this Agreement for the substantial failure of the other party to perform in accordance with the terms of this Agreement (the substantiality of such failure to be based on standard engineering practices and the scope of work described on the Exhibits attached to this Agreement), through no material fault of the terminating party. *County* may unilaterally terminate this Agreement for reasons other than substantial failure by *Engineer* to perform by delivering a written Notice of Termination which shall take effect on the tenth day following **Engineer**'s receipt of same. If mutually agreed upon, the obligation to provide services under this Agreement may be terminated without cause upon thirty (30) days written notice. *Engineer* shall follow the procedures specified in Exhibit V upon issuance or receipt of such notice. In the event of termination of this Agreement because of the substantial failure of *Engineer* to perform, *County* may prosecute the work to completion by contract or otherwise and, in such a case, *Engineer* shall be liable for direct additional costs incurred by *County*.
- F. Engineer specifically acknowledges that County will sustain damages for each day beyond the required dates of completion of the Preliminary and Design Phases as defined in the Scope of Services that the work has not been accepted and approved. Because of the impracticality and extreme difficulty of fixing and ascertaining County's actual damages, Engineer agrees that _one-hundred and No/100 Dollars (\$100.00) per day shall be retained by County from any amounts due Engineer for every day that Engineer does not meet the production requirements set forth in Exhibit IV.
- G. Periods of time (i) during which a Notice of Suspension is in effect, or (ii) during which a submitted and complete engineering work product is in technical review, as described in Section VI, or (iii) during which a delay directly related to matters described in section IV(C) above, shall not be taken into account in computing the amount of liquidated damages. In the event that an engineering work product received by *County* is found to be incomplete, as defined in SectionVI, Paragraph B, the period of time from the original submittal of the engineering work product to the receipt of subsequent submittal necessary to produce a completed submittal, less the time that the work product is under review by the County, will be taken into account in computing the number of days and the amount of liquidated damages
- H. All references to time in this Agreement shall be measured in calendar days unless otherwise specified.

Section V Coordination with the County

A. The *County Judge* will act on behalf of *County* with respect to the work to be performed

under this Agreement. The *County Judge* shall have complete authority to interpret and define *County's* policies and decisions with respect to *Engineer's* services. The *County Judge* may designate representatives to transmit instructions and receive information.

- B. **Engineer** shall not commence work on any phase of the **Project** until a thorough briefing on the scope of the **Project** is received and a written Work Authorization is issued by the **County Judge** in substantially the form of Attachment A to Exhibit I.
- C. Engineer shall furnish all available data and reasonable assistance necessary for the development of applications or supporting documentation for any permits, grants, or planning advances as applicable to the professional services to be rendered pursuant to this Agreement, provided that Engineer shall not be obligated to develop additional data, appear at hearings, or prepare extensive reports, unless compensated for such work under other provisions of this Agreement.
- D. **Engineer** shall have the responsibility at all times under the terms of this Agreement to advise **County** whether in **Engineer's** judgment it is feasible to proceed with the recommendations given any constraints affecting the **Project**.
- E. *Engineer* shall cooperate and coordinate with *County's* staff, and other engineers and contractors as reasonable and necessary and as required by the *County Judge*.

Section VI Review of Work Product

- A. *Engineer's* engineering work product will be reviewed by *County* under its applicable technical requirements and procedures.
- B. Reports, plans, specifications, and supporting documents, (the "engineering work products"), shall be submitted by *Engineer* on or before the dates specified in the Production Schedule set forth in Exhibit IV. Upon receipt of the engineering work products, the submission shall be checked for completion. "Completion" shall be defined as: all of the required items (as defined by the scope of services described herein) have been included in the engineering work products in compliance with the requirements of this Agreement. The completeness of any engineering work product submitted to *County* shall be determined by *County* within thirty (30) days of such submittal and *County* shall notify *Engineer* in writing within such 30-day period if such work product has been found to be incomplete.
- C. If the submission is complete, *County* shall notify *Engineer* and *County's* technical review process will begin.
- D. If the submission is incomplete, *County* shall notify *Engineer*, who shall perform such professional services as are required to complete the work and resubmit it to *County*. This process shall be repeated until a submission is complete.
- E. County shall review the completed work for compliance with the scope of work. If

necessary, the completed work shall be returned to *Engineer*, who shall perform any required work and resubmit it to *County*. This process shall be repeated until the work is accepted. "Acceptance" shall mean that in the *County Judge's* opinion substantial compliance with the requirements of this Agreement has been achieved.

- F. After acceptance, *Engineer* shall perform any required modifications, changes, alterations, corrections, redesigns, and additional work necessary to receive final approval by the *County Judge*. "Approval" in this sense shall mean formal recognition that the work has been fully carried out.
- G. After approval of final engineering work products, *Engineer* shall without additional compensation perform any work required as a result of *Engineer's* development of the products which is found to be in error or omission due to *Engineer's* negligence. However, any work required or occasioned for the convenience of *County* after approval of a final product shall be paid for as Additional Services.
- H. In the event of any dispute over the classification of *Engineer's* work products as complete, accepted, or approved under this Agreement, the decision of the *County Judge* shall be final and binding on *Engineer*, subject to any civil remedy or determination otherwise available to the parties and deemed appropriate by the parties.

Section VII Revision to Work Product

Engineer shall make without expense to County such revisions to the work product as may be required to correct negligent errors or omissions so the work product meets the needs of County, but after the approval of the work product any revisions, additions, or other modifications made at County's request which involve extra services and expenses to Engineer shall entitle Engineer to additional compensation for such extra services and expenses, provided however, that Engineer agrees to perform any necessary corrections to the work products, which are found to be in negligent error or omission as a result of the Engineer's development of the work product, at any time, without additional compensation. If it is necessary due to such error or omission by Engineer to revise the plans in order to make the Project constructible, Engineer shall do so without additional compensation. In the event of any dispute over the classification of Engineer's services as Basic or Additional Services under this Agreement, the decision of the County Judge shall be final and binding on Engineer, subject to any civil remedy or determination otherwise available to the parties and deemed appropriate by the parties.

Section VIII Engineer's Responsibility and Liability

A. *Engineer* covenants to undertake no task in which a professional license or certificate is required unless he or someone under his direction is appropriately licensed. In the event such licensed individual's license expires, is revoked, or is canceled, *Engineer* shall inform *County* of such event within five working days.

- B. *Engineer* shall be responsible for conformance with applicable federal and state laws, county permitting requirements, and city ordinances currently in effect, except as otherwise directed by the *County Judge* regarding county permitting or similar requirements properly waivable by the *County Judge*.
- C. Acceptance and approval of the final plans by *County* shall not release *Engineer* of any responsibility or liability for the accuracy and competency of his designs, working drawings, specifications, or other documents or work performed under this Agreement. Neither acceptance nor approval by *County* shall be an assumption of responsibility or liability by *County* for any defect, error, or omission in the designs, working drawings, specifications, or other documents prepared by *Engineer*.
- D. <u>ENGINEER</u> SHALL INDEMNIFY, PROTECT, AND SAVE HARMLESS <u>COUNTY</u>, ITS OFFICIALS AND EMPLOYEES AND ITS AGENTS AND AGENTS' EMPLOYEES FROM AND AGAINST CLAIMS, SUITS, ACTIONS, LIABILITY, LOSS, DAMAGE, REASONABLE ATTORNEY'S FEES, COSTS, AND EXPENSES (INCLUDING, BUT NOT LIMITED TO EXPENSES RELATED TO EXPERT WITNESSES), TO THE EXTENT ARISING FROM ANY NEGLIGENT ACT, ERROR OR OMISSION OF <u>ENGINEER</u> OR ANY OF ITS SUBCONTRACTORS IN CONNECTION WITH THE PERFORMANCE OF SERVICES UNDER THIS AGREEMENT; PROVIDED, HOWEVER, <u>ENGINEER</u> SHALL NOT BE RESPONSIBLE FOR THE NEGLIGENCE OF ANY OTHER PARTY, OTHER THAN ITS SUBCONTRACTORS.
- E. *Engineer's* opinions of probable *Project* cost or construction cost represent *Engineer's* professional judgment as a design professional familiar with the construction industry, but *Engineer* does not guarantee that proposals, bids, or the construction cost, itself, will not vary from *Engineer's* opinions of probable cost.
- F. **Engineer** shall perform all services and responsibilities required of **Engineer** under this Agreement using at least that standard of care which a reasonably prudent engineer in Texas, who is licensed by the State Board of Engineers, or the State Board of Registered Professional Surveyors, as applicable, would use in similar circumstances.
- G. **Engineer** represents that it presently has, or is able to obtain, adequate qualified personnel in its employment for performance of the services required under this Agreement and that **Engineer** shall furnish and maintain, at its own expense, adequate and sufficient personnel and equipment, in the reasonable opinion of **County**, to perform the services when and as required and without delays. It is understood that **County** will approve assignment and release of all key **Engineer** and professional personnel.
- H. All employees of *Engineer* shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of *Engineer*, who in the opinion of *County* is incompetent or whose conduct becomes detrimental to the work or coordination

with *County*, shall upon *County's* and/or *County Judge's* request be immediately removed from association with the *Project*.

- I. **Engineer** shall furnish all equipment, transportation, supplies, and materials required for its operations under this Agreement.
- J. *Engineer* shall place his Texas Professional Engineer's seal of endorsement on all documents and engineering data furnished to *County*, as required by law.
- K. *Engineer* is an independent contractor under this Agreement. Neither he nor any officer, agent or employee of *Engineer* shall be classified as an employee of *County*.

Section IX Ownership of Documents

- A. Any and all documents, including the original drawings, estimates, computer tapes, graphic files, tracings, calculations, analyses, reports, specifications, field notes, and data prepared by *Engineer* are the property of *County* and upon completion of the work or termination of this Agreement or as otherwise instructed by *County* and/or *County Judge*, shall be delivered to *County* in an organized fashion with *Engineer* retaining a copy.
- B. Any reuse by *Engineer* of any such documents described in subsection A above, without the specific written consent of *County* shall be at *Engineer's* sole risk and without liability or legal exposure to *County*. Should *Engineer* be terminated, *Engineer* shall not be liable for *County's* use of partially completed designs, plans, or specifications on this *Project* or any other project, except to the extent such documents were deemed complete or otherwise "Accepted" or "Approved" as provided herein or represent completed work sealed by *Engineer*, or Surveyor, as applicable, as specified by professional standards.
- C. **Engineer** will not be responsible for any use or any modifications to the plans and documents described in subsection A performed by any entity without the specific written consent of **Engineer**. Any modification as described in this paragraph shall be made in accordance with all applicable professional standards.

Section X Maintenance of and Right of Access to Records

- A. *Engineer* agrees to maintain appropriate accounting records of costs, expenses, and payrolls of employees working on the *Project*, together with documentation of evaluations and study results for a period of three (3) years after final payment for completed services and all other pending matters concerning this Agreement have been closed.
- B. Engineer further agrees that County or its duly authorized representatives shall, until the

expiration of three (3) years after final payment under this Agreement, have access to and the right to examine and photocopy any and all books, documents, papers and records of *Engineer*, which are directly pertinent to the services to be performed under this Agreement for the purposes of making audits, examinations, excerpts, and transcriptions. *Engineer* agrees that *County* shall have access during normal working hours to all necessary *Engineer* facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. *County* shall give *Engineer* reasonable advance notice of intended audits.

- C. Engineer further agrees to include in all its sub-consultant agreements hereunder a provision to the effect that the sub-consultant agrees that County shall, until the expiration of three (3) years after final payment under the subcontract, have access to and the right to examine and photocopy any directly pertinent books, documents, papers and records of such sub-consultant, involving transactions to the subcontract, and further, that County shall have access during normal working hours to all sub-consultant facilities, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with the provisions of this section together with subsection (D) hereof. County shall give sub-consultant reasonable advance notice of intended audits.
- D. *Engineer* and sub-consultant agree to photocopy such documents as may be requested by *County*. *County* agrees to reimburse *Engineer* for the cost of copies at the rate published in the Texas Administrative Code in effect as of the time copying is performed.

Section XI Miscellaneous

- A. Severability. If any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof, but rather this entire Agreement will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this Agreement is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this Agreement and be deemed to be validated and enforceable.
- B. Venue and Governing Law. It is contemplated that this Agreement shall be performed in Williamson County, Texas, and the venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this Agreement shall lie exclusively in Williamson County, Texas. This Agreement shall be governed by and construed in accordance with the laws of the State of Texas.
- C. **Equal Opportunity in Employment. Engineer** agrees, during the performance of the services under this Agreement, to comply with the equal opportunity in employment provisions cited in Exhibit VI, which is attached hereto and made a part hereof.

- D. Certificate of Engineer. Engineer certifies that neither Engineer nor any members of Engineer's firm has:
 - (1) Employed or retained for a commission, percentage, brokerage, contingency fee, or other consideration, any firm or person (other than a bona fide employee working solely for *Engineer*) to solicit or secure the work provided by the Agreement.
 - Agreed, as an expressed or implied condition for obtaining this contract, to employ or (2) retain the services of any firm or person other than in connection with carrying out the work to be performed under this Agreement.
 - Paid or agreed to pay to any firm, organization, or person (other than bona fide (3) employees working solely for Engineer) any fee, contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the work provided under this Agreement.

Engineer further agrees that this certification may be furnished to any local, state or federal governmental agencies in connection with this Agreement and for those portions of the **Project** involving participation of agency grant funds and is subject to all applicable state and federal, criminal and civil laws.

E. Notice. Any notice to be given hereunder shall be in writing and may be affected by personal delivery in writing or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

ENGINEER:

TCB INC.

400 W. 15th Street, Suite 500

Austin, Texas 78701

COUNTY:

Williamson County Judge Dan Gattis (or successor) 710 Main Street, Ste. 101 Georgetown, Texas 78626

with copy to:

Williamson County Attorney Jana Duty (or successor) 405 M.L.K. St., Box #7 Georgetown, Texas 78626 Attn: File No.

and to: Prime Strategies, Inc.

1508 South Lamar Blvd. Austin, Texas 78704 Attn: Michael Weaver

and to:	HNTB
	14 Galloping Road
	Round Rock, Texas 78681
	Attn: Mike Snare, P.E.
and to:	

- F. *Insurance Requirements. Engineer* agrees during the performance of the services under this Agreement to comply with the INSURANCE REQUIREMENTS provisions described in Exhibit VII, which is attached hereto and made a part hereof.
- G. **Property Taxes.** Notwithstanding anything to the contrary herein, to the extent **County** becomes aware that **Engineer** is delinquent in the payment of property taxes related to property located in Williamson County at the time of invoicing, **Engineer** hereby assigns any payments to be made for services rendered hereunder to the Williamson County Tax Assessor-Collector for the payment of said delinquent taxes. Notwithstanding the above, **County** shall not have an affirmative duty to determine if **Engineer** is delinquent in the payment of property taxes.
- H. Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of County and Engineer and their respective successors, executors, administrators, and assigns. Neither County nor Engineer may assign, sublet, or transfer his interest in or obligations under this Agreement without the written consent of the other party hereto. Notwithstanding the foregoing, Engineer may assign this agreement to its parent company or any affiliated company or organization without the consent of County.
- I. **Bidding Exemption.** This Agreement is exempted from the bidding requirements of the County Purchasing Act pursuant to Section 262.024(a)(4) of the Local Government Code as this is a contract for professional services.
- J. Taxpayer Identification. Engineer shall provide to County Judge upon submittal of Engineer's initial invoice requesting payment Internal Revenue Form W-9 Request for Taxpayer Identification Number and Certification that is completed in compliance with the Internal Revenue Code, its rules and regulations.
- K. Compliance with Laws. Engineer shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including, without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations. When required, the Engineer shall furnish the County with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

- L. Reports of Accidents. Within 24 hours after Engineer becomes aware of the occurrence of any accident or other event which results in, or might result in, injury to the person or property of any third person (other than an employee of the Engineer), whether or not it results from or involves any action or failure to act by the Engineer or any employee or agent of the Engineer and which arises in any manner from the performance of this Agreement, the Engineer shall send a written report of such accident or other event to the County, setting forth a full and concise statement of the facts pertaining thereto. The Engineer shall also immediately send the County a copy of any summons, subpoena, notice, or other documents served upon the Engineer, its agents, employees, or representatives, or received by it or them, in connection with any matter before any court arising in any manner from the Engineer's performance of work under this Agreement.
- M. **Definition of Engineer.** The term "**Engineer**" as used herein is defined as including Registered Professional Surveyors, as applicable to the work to be performed under this Agreement, and any reference to professional standards in regards to a Registered Professional Surveyor shall relate to those standards promulgated by the State Board of Registered Professional Surveyors.
- N. Gender, Number and Headings. Words of any gender used in this Agreement shall be held and construed to include any other gender, and words in the singular number shall be held to include the plural, unless the context otherwise requires. The headings and section numbers are for convenience only and shall not be considered in interpreting or construing this Agreement.
- O. Incorporation of Exhibits and Attachments. All of the Exhibits and Attachments, and Appendices referred to in the Agreement are incorporated by reference as if set forth verbatim herein.
- P. *Entity Status*. By my signature below, I certify that *Engineer* is a professional engineering consulting firm, duly authorized to transact and do business in the State of Texas.
- Q. **Construction.** Each party hereto acknowledges that it and its counsel have reviewed this Agreement and that the normal rules of construction are not applicable and there will be no presumption that any ambiguities will be resolved against the drafting party in the interpretation of this Agreement.
- R. Independent Contractor Relationship. Both parties hereto, in the performance of this Agreement, shall act in an individual capacity and not as agents, employees, partners, joint ventures or associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purposes whatsoever.
- S. **No Waiver of Immunities.**_Nothing in this Agreement shall be deemed to waive, modify or amend any legal defense available at law or in equity to **County**, its past or present officers, employees, or agents or employees, nor to create any legal rights or claim on behalf of any

third party. *County* does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

- Т. Interest and Late Payments. County's payment for goods and services shall be governed by Chapter 2251 of the Texas Government Code. Invoices shall be paid by *County* within thirty (30) days from the date of the Williamson County Auditor's receipt of an invoice. Interest charges for any late payments shall be paid by *County* in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of *County's* fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday. In the event that a discrepancy arises in relation to an invoice, such as an incorrect amount on an invoice or a lack of documentation that is required to be attached to an invoice to evidence the amount claimed to be due, *County* shall notify the party requesting payment of such an invoice of the discrepancy. Following *County's* notification of any discrepancy as to an invoice, the party requesting payment must resolve the discrepancy and resubmit a corrected or revised invoice, which includes all required support documentation, to the Williamson County Auditor. County shall pay the invoice within thirty (30) days from the date of the Williamson County Auditor's receipt of the corrected or revised invoice. County's payment of an invoice that contains a discrepancy shall not be considered late, nor shall any interest begin to accrue until the thirty-first (31st) day following the Williamson County Auditor's receipt of the corrected or revised invoice.
- U. Texas Public Information Act. To the extent, if any, that any provision in this Agreement is in conflict with Tex. Gov't Code 552.001 et seq., as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood and agreed that County, its officers and employees may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to County as to whether or not the same are available to the public. It is further understood that County's officers and employees shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.
- V. **Acknowledgement.** As a duly authorized representative of **Engineer**, I acknowledge by my signature below that I have read and understand the above paragraphs and that **Engineer** has the obligation to ensure compliance with its provisions by itself and its employees, agents, and representatives.
- W. Governing Terms and Conditions. If there is an irreconcilable conflict between the terms and conditions set forth in Sections I. through XI. of this Agreement and the terms and

conditions set forth in any Exhibit, Appendix or Attachment to this Agreement, the terms and conditions set forth in Sections I. through XI. of this Agreement shall control over the terms and conditions set forth in any Exhibit, Appendix or Attachment to this Agreement.

X. Entire Agreement. This Agreement represents the entire and integrated Agreement between County and Engineer and supersedes all prior negotiations, representations, or agreements, either oral or written. This Agreement may be amended only by written instrument signed by both County and Engineer. NO OFFICIAL, EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE COUNTY HAS ANY AUTHORITY, EITHER EXPRESS OR IMPLIED, TO AMEND THIS CONTRACT, EXCEPT PURSUANT TO SUCH EXPRESS AUTHORITY AS MAY BE GRANTED BY THE COUNTY COMMISSIONERS COURT.

EXECUTED this 16th day of Octo, 2	2008
THE ENGINEER: TCB INC.	WILLIAMSON COUNTY:
	BY: Da Maria
BY: Dain K Buth	BY: Ph
Printed Name: DARW K. Butter	Williamson County Judge
Title: BYL. VICE PRESIDENT	0/10/16/00
	M.
	ì
Reviewed as to Form By:	Assistant County Attorney
Funds Verified By:	
	County Contracts Management Auditor

EXHIBIT I

COMPENSATION FOR PROFESSIONAL SERVICES

ACTUAL COST OF SERVICES METHOD

[Note: A separate Compensation Agreement will be attached for Compensation on a Work-Order Basis]

SECTION 1 - BASIS FOR COMPENSATION

- 1.1 The not-to-be-exceeded fee for the performance of the Scope of Services described in the Agreement shall be the sum of \$ 2,321,448.
- 1.2 The basis of compensation for the services of principals and employees engaged in the performance of the work shall be the hourly rates set forth in attached Exhibit II.
- 1.3 *Engineer* shall be reimbursed for actual non-labor and subcontract expenses incurred in the performance of the services under this Agreement at the *Engineer's* invoice cost.

SECTION 2 - NOT-TO-BE-EXCEEDED FEE

2.1 **Engineer** and **County** acknowledge the fact that the not-to-be-exceeded fee is the total estimated costs of services to be rendered under this Agreement. This not-to-be-exceeded fee is based upon the labor and non-labor costs set forth in Exhibit II to this Agreement and described above, estimated to be required in the performance of the various phases of work provided for under this Agreement. Should the actual costs of the services rendered under this Agreement be less than such estimated cost, then **Engineer** shall receive compensation for only those services actually rendered.

SECTION 3 – WORK AUTHORIZATIONS

- 3.1 County will prepare and issue Work Authorizations, in the form identified and attached hereto as Attachment A to authorize the Engineer to perform one or more tasks. Each Work Authorization will include a description of the work to be performed, a description of the tasks and milestones, a work schedule for the tasks, and a fee amount agreed upon by the County and Engineer. The amount payable for a Work Authorization shall be supported by the estimated cost of each work task as described in the Work Authorization. The Work Authorization will not waive the Engineer's responsibilities and obligations established in this Agreement. The executed Work Authorizations shall become part of this Agreement.
- 3.2 Work included in a Work Authorization shall not begin until *County* and *Engineer* have signed the Work Authorization. All work must be completed on or before the completion date specified in the Work Authorization. The *Engineer* shall promptly notify the *County* of any event which will affect completion of the Work Authorization, although such notification

shall not relieve the *Engineer* from costs or liabilities resulting from delays in completion of the Work Authorization. Any changes in the Work Authorization shall be enacted by a written Supplemental Work Authorization before additional work may be performed or additional costs incurred. Any Supplemental Work Authorization must be executed by both parties within the period specified in the Work Authorization. The *Engineer* shall not perform any proposed work or incur any additional costs prior to the execution, by both parties, of a Supplemental Work Authorization.

SECTION 4 - ADDITIONAL SERVICES

- 4.1 For additional services, compensation shall be negotiated in accordance with Exhibit III.
- 4.2 **Engineer** shall be compensated for extra services not included in the Scope of Services described in the Agreement on the basis specified in Exhibit III; however, **Engineer** shall not be compensated for work made necessary by **Engineer**'s negligent errors or omissions.
- 4.3 The maximum amount payable under this Agreement without modification (the "Compensation Cap") is \$ 2,321,448, provided that any amounts paid or payable shall be solely pursuant to a validly issued Work Authorization or any Supplemental Work Authorization related thereto. In no event may the aggregate amount of compensation authorized under Work Authorizations and Supplemental Work Authorizations exceed the Compensation Cap.

SECTION 5 – REQUIRED SUPPORTING DOCUMENTATION

- 5.1 Upon submittal of the initial invoice for service, *Engineer* shall provide *County Judge* with an Internal Revenue Form W-9, Request for Taxpayer Identification Number and Certification that is complete in compliance with the Internal Revenue Code, its rules and regulations.
- 5.2 All invoices submitted to *County Judge* will be accompanied by an original, complete packet of supporting documentation. Invoices should detail hours worked by staff person, with a description of the work performed by individuals. Invoices should also contain a representation of the percentage of completion relative to that segment of the *Project*.
- 5.3 For additional services performed pursuant to Section III B of this Agreement, a separate invoice or itemization of this work will be presented with the same requirements for supporting documentation as in Section 5.2 of this Exhibit.
- 5.4 Invoices requesting reimbursement for expenditures related to the project (reimbursables) must be accompanied by copies of the provider's invoice which was previously paid by *Engineer*.

Title

ATTACHMENT A

WORK AUTHORIZATION NO. 1

This Work Authorization is made pursuant to the terms and conditions of the Agreement entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and TCB INC. (the "Engineer").

Part1. The Engineer will provide the following engineering services:

Preliminary and Final Design Services for Ronald Reagan Boulevard from SH 195 to IH 35.

- Part 2. The maximum amount payable for services under this Work Authorization without modification is \$2,321,448.
- Part 3. Payment to the *Engineer* for the services established under this Work Authorization shall be made in accordance with the Agreement.
- Part 4. This Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate on 12/1/2/19, unless extended by a Supplemental Work Authorization.
- Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Agreement.

Part 6. This Work Authorization is hereby accepte	d and acknowledged below.
EXECUTED this 16 Th day of Other, , 2	2008.
ENGINEER: TCB INC.	COUNTY: Williamson County, Texas
By: Oam Buth Signature	By: Signature
Printed Name	Printed Name
BL VIDE PROPERTY	County Judge

Title

LIST OF EXHIBITS

Exhibit A - Services to be Provided by County

Exhibit B - Services to be Provided by Engineer

Exhibit C - Work Schedule

Exhibit D - Fee Schedule

EXHIBIT II

HOURLY RATES

1. Project Manager\$ 174.00
2. Senior Engineer\$ 244.00
3. Senior Project Engineer\$ 186.00
4. Project Engineer\$ 116.00
5. Graduate Engineer (EIT)\$ 101.00
6. Environmental Manager\$ 168.00
7. Geologist\$ 128.00
8. Environmental Specialist III\$ 107.00
9. Senior Engineering Specialist\$ 137.00
10. Senior Engineering Technician\$ 104.00
11. Engineering Technician\$ 76.00
12. Administration (Secretary/Clerical)\$ 64.00

m 10/16/08

EXHIBIT III

COMPENSATION FOR ADDITIONAL PROFESSIONAL SERVICES

- 1. The fees described in Exhibits I and II to this Agreement shall provide compensation to *Engineer* for the work described in the Basic Scope of Services of the Agreement.
- 2. For the performance of work not described in the Basic Scope of Services of the Agreement, *County* shall pay and *Engineer* shall receive, under a negotiated contract modification, compensation based upon the method and rates set forth in Exhibits I and II to the Agreement.
- 3. The performance of any additional services must be authorized in writing in advance by the *County Judge*.
- 4. In the event of any dispute over the classification of *Engineer's* services as either basic or additional services, the decision of the *County Judge* shall be final and binding.

EXHIBIT IV

PRODUCTION SCHEDULE

This Agreement shall become effective upon the date approved by *County* and will remain in full force and effect for the period required for the design, construction contract award and construction of the *Project*, including warranty periods and any extensions of time, unless terminated earlier as provided for herein. *Engineer* shall complete all design work as described in the Scope of Services within the timeline and/or schedule provided in the Scope of Services.

The number of days expiring from the date of submittal to *County* of a complete work product to the date the review is finished and comments returned to *Engineer* shall not be included within the days allowed for completion.

EXHIBIT V

PROCEDURES FOR TERMINATION OR SUSPENSION

Procedures for *Engineer* to follow upon receipt of Notice of Termination:

- 1. Upon receipt of a Notice of Termination and prior to the effective date of the termination, *Engineer* shall, unless the Notice otherwise directs, immediately begin to phase out and discontinue all services in connection with the performance of this Agreement and shall proceed to promptly cancel all existing orders and contracts insofar as such orders and contracts are chargeable to this Agreement. Within thirty (30) days after receipt of the Notice of Termination, *Engineer* shall submit a statement, showing in detail the services performed under this Agreement prior to the effective date of termination.
- 2. Copies of all completed or partially completed designs, plans, and specifications prepared under this Agreement prior to the effective date of termination shall be delivered to *County* as a pre-condition to final payment.
- 3. Upon the above conditions being met, *County* shall pay *Engineer* for approved services actually performed under this Agreement, less previous payments.
- 4. Failure by *Engineer* to submit the required statement and to comply with the above stated conditions without good and reasonable cause shall constitute a waiver by *Engineer* of any and all rights or claims to collect the fee that *Engineer* may rightfully be entitled to for services performed under this Agreement.

Procedures for *Engineer* to follow upon receipt of Notice of Suspension:

- 1. Upon receipt of a Notice of Suspension and prior to the effective date of the suspension, *Engineer* shall, unless the Notice otherwise directs, immediately begin to phase-out and discontinue all services in connection with the performance of this Agreement and shall prepare a statement detailing the services performed under this Agreement prior to the effective date of suspension. Copies of all completed or partially completed designs, plans and specifications prepared under this Agreement prior to the effective date of suspension shall be prepared for possible delivery to *County*, but shall be retained by *Engineer* unless requested by *County*.
- 2. During the period of suspension, *Engineer* may submit the above-referenced statement to *County* for payment of the approved services actually performed under this Agreement, less previous payments.

Procedures for *Engineer* to follow upon exercise of right to terminate for substantial failure of *County* to perform:

- 1. In the event that *Engineer* exercises such right to terminate, within thirty (30) days after receipt by *County* of *Engineer's* Notice of Termination, *Engineer* shall submit a statement detailing the services performed under this Agreement prior to the effective date of termination.
- 2. Copies of all completed or partially completed reports, designs, plans, studies, specifications and other work product shall be delivered to *County* as a pre-condition to final payment. Upon the above conditions being met, *County* shall pay *Engineer* for approved services actually performed under this Agreement, less previous payments.
- 3. Failure by *Engineer* to submit the required statement and to comply with the above stated conditions without good and reasonable cause shall constitute a waiver by *Engineer* of any and all rights or claims to collect the fee that *Engineer* may rightfully be entitled to for services performed under this Agreement.

EXHIBIT VI

EQUAL OPPORTUNITY IN EMPLOYMENT

- A. *Engineer* will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. *Engineer* will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. *Engineer* agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this non-discrimination clause.
- B. *Engineer* will, in all solicitations or advertisements for employees placed by or on behalf of *Engineer*, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
- C. **Engineer** will send to the labor union representative or workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the Contract Compliance Officer advising the said labor union or worker's representatives of **Engineer's** obligations under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- D. Engineer will comply with the Regulations of the Department of Transportation (49 CFR 21 and 23 CFR 710.405) and all provisions of Executive Order 11246 of September 24, 1965, as amended by Executive Order 11375 (41 CFR 60) and of the rules, regulations and relevant order of the Secretary of Labor. In the event that federal financial assistance is provided for the Project, Engineer shall comply with 49 CFR 26, TxDOT's Disadvantaged Business Enterprises Program and any Memorandum of Understanding between the County and TxDOT pertaining to such Disadvantaged Business Enterprise Program.
- E. *Engineer* will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations and orders of the Secretary of Labor, or pursuant thereto; and will permit access to his books, records, and accounts by the Department and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.
- F. In the event of *Engineer's* non-compliance with the non-discrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and *Engineer* may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, as amended by Executive Order 11375 (41 CFR 60) or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

G. Engineer will include the provisions of paragraph (A.) through (F.) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 or Executive Order 11246 of September 24, 1965, as amended by Executive Order 11375 (41 CFR 60), so that such provisions will be binding upon each subcontractor or vendor. Engineer will take such action with respect to any subcontractor purchase order as the Department may direct as a means of enforcing such provisions, including sanctions for non-compliance: provided, however, that in the event Engineer becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by County or Federal Agency, Engineer may request County and United States to enter into such litigation to protect the interest of the United States.

EXHIBIT VII

INSURANCE REQUIREMENTS

During the life of this Agreement, *Engineer* agrees to provide and maintain the following insurance:

- A. Worker's Compensation in accordance with statutory requirements.
- B. Commercial General Liability Insurance with a combined minimum Bodily Injury and Property Damage limits of \$\(\frac{2,000,000}{2,000,000} \) per occurrence and \$\(\frac{2,000,000}{2,000,000} \) gain the aggregate, including coverage on same for independent subcontractor(s). WILLIAMSON COUNTY SHALL BE NAMED AS AN ADDITIONAL INSURED UNDER THIS COVERAGE.
- C. Automobile Liability Insurance for all owned, non-owned, and hired vehicles with combined minimum limits for Bodily Injury and Property Damage limits of \$_1,000,000_\text{ per occurrence} and \$_1,000,000_\text{ in the aggregate.} \textit{Engineer} shall require any subcontractor(s) to provide Automobile Liability Insurance in the same minimum amounts.}
- D. Professional Liability Errors and Omissions Insurance in the amount of \$ 1,000,000 .
- E. In the event *Engineer* is self-insured in connection with any or all of the above-required insurance policies, *Engineer* shall submit proof of such self-insurance and all financial statements as reasonably required by the *County* in order to determine the acceptability of such self-insurance.

Engineer shall not commence any field work under this Agreement until he has obtained all required insurance and such insurance or self-insurance has been approved by **County**. **Engineer** shall not allow any subcontractor(s) to commence work to be performed in connection with this Agreement until all required insurance has been obtained and approved. Approval of the insurance by **County** shall not relieve or decrease the liability of **Engineer** hereunder.

The required insurance must be written by a company approved to do business in the State or Texas with a financial standing of at least an A- rating, as reflected in Best's insurance ratings or by a similar rating system recognized within the insurance industry at the time the policy is issued. *Engineer* shall furnish *County* with a certification of coverage issued by the insurer. *Engineer* shall not cause any insurance to be canceled nor permit any insurance to lapse. ALL INSURANCE CERTIFICATES SHALL INCLUDE A CLAUSE TO THE EFFECT THAT THE POLICY SHALL NOT BE CANCELED OR REDUCED, RESTRICTED OR LIMITED UNTIL TEN (10) DAYS AFTER COUNTY HAS RECEIVED WRITTEN NOTICE AS EVIDENCED BY RETURN RECEIPT OF REGISTERED OR CERTIFIED LETTER.

It is the intention of the *County* and the *County Judge*, and agreed to and hereby acknowledged by the *Engineer*, that no provision of this Professional Services Agreement shall be construed to require the *County* or the *County Judge* to submit to mandatory arbitration or mediation in the settlement of any claim, cause of action or dispute, except as specifically required in direct connection with an insurance claim or threat of claim under an insurance policy required under this Exhibit which absolutely requires arbitration or mediation of such claim, or as otherwise required by law or a court of law with jurisdiction over the provisions of this Agreement.

APPENDIX A

SCOPE OF SERVICES

THE ATTACHED SCOPE OF SERVICES IS INTENDED TO BE CONSISTENT WITH THE WILLIAMSON COUNTY PROFESSIONAL SERVICES AGREEMENT. TO THE EXTENT THE SCOPE IS INCONSISTENT WITH THE PROFESSIONAL SERVICES AGREEMENT, THE PROFESSIONAL SERVICES AGREEMENT WILL SUPERSEDE THE SCOPE AND WILL BE CONTROLLING.

THE ENGINEER SHALL PROVIDE EXPERT TESTIMONY IN ANY ADMINISTRATIVE OR COURT PROCEEDINGS THROUGH AN APPROPRIATE ENGINEERING PROFESSIONAL TO BE DETERMINED BY COUNTY AS ADDITIONAL SERVICES AT THE RATE OF COMPENSATION SET FORTH IN EXHIBIT II.

EXCEPT AS PROVIDED FOR FEE SERVICES OR WORK-ORDER BASED SERVICES, THE ATTACHED SCOPE OF SERVICES SHALL INCLUDE A PRODUCTION SCHEDULE REFLECTING A TIMELINE FOR THE EXECUTION OF THE PROJECT.

APPENDIX B

ENGINEER'S QUALIFICATIONS STATEMENT

Texas Board of Professional Engineers 1917 IH 35 South Austin, TX 78741-3702

> TCB Inc (f/k/a) Turner Collie and Braden Inc 5757 WOODWAY SUITE 101 WEST HOUSTON, TX 77057



This acknowledges that

TCB Inc (f/k/a) Turner Collie and Braden Inc

has fulfilled the requirements of the Texas Board of Professional Engineers to offer and perform engineering services in the state of Texas.

Registration Number F-1659

Expiration Date 9/30/2009

EXHIBIT A

SERVICES TO BE PROVIDED BY WILLIAMSON COUNTY

Ronald Reagan Boulevard Phase IV SH 195 to IH-35

- 1. County shall choose the horizontal alignment of the Proposed Ronald Reagan Boulevard.
- 2. The County shall supply all geotechnical data, excluding pavement design, required for the project.
- 3. County shall provide all required permits.
- 4. County will provide utility agreements with utility companies.
- 5. County will attend public awareness meeting.

EXHIBIT B

SERVICES TO BE PROVIDED BY THE ENGINEER

Highway:

Ronald Reagan Boulevard Phase 4 (RRB4)

County:

Williamson

Limits:

From SH 195 to IH 35N

General Work Description: Provide alternatives analysis, preliminary engineering, limited environmental studies, plans, specifications, and estimate (PS&E) development, and construction phase services to develop RRB4 from SH 195 to IH 35N.

The Engineer will perform the following tasks listed below each Major Heading as shown:

Task 1 - Project Management and Communication Plan (Page 2)

- 1.1 Meetings
- 1.2 QA/QC and Document Control
- 1.3 Invoicing, Contract Document Coordination
- 1.4 Sub Consultant Management
- 1.5 Project Scheduling

Task 2 - Route and Design Studies (Page 4)

- 2.1 Field Reconnaissance
- 2.2 Evaluation of LIDAR Data; Surveying
- 2.3 Traffic Counts and Traffic Analysis
- 2.4 Preliminary Drainage
- 2.5 Preliminary Construction Estimates
- 2.6 Schematic Development
- 2.7 Typical Sections
- 2.8 Horizontal Alignments
- 2.9 Vertical Alignments
- 2.10 Cross Sections
- 2.11 Alternative Schematics Development
- 2.12 Geometric Schematic
- 2.13 Implementation Plan and Conceptual Sequence of Work & Traffic Control Plan

Task 3 - Right of Way Data (Page 9)

3.1 - Adjacent Property Ownership

Task 4 - Field Surveying (Page 9)

4.1 - Field Surveying

Task 5 - Water Pollution Abatement Plan (Page 10)

5.1 - Water Pollution Abatement Plan

Task 6 - Utilities (Page 10)

- 6.1 Utility Adjustment Coordination
- 6.2 Utility Engineering

Task 7 - Environmental (Page 14)

- 7.1 Public Involvement/Planning
- 7.2 Environmental Analysis
- 7.3 Geologic Assessment
- 7.4 Karst Feature Survey

- 7.5 Endangered Bird Species Survey
- 7.6 Archaeological Investigations
- 7.7 Archaeological Survey
- 7.8 Archaeological Report Preparation
- 7.9 Historic Property Reconnaissance Survey
- 7.10 Waters of the U.S. and Section 404 Permitting
- 7.11 Due Diligence Survey and Report
- 7.12 Categorical Exclusion Document

Task 8 - Geotechnical (Page 21)

8.1 - Pavement Design

Task 9 - Plans, Specifications, and Estimate (PS&E) Development (Page 22)

- 9.1 Engineering Summary Report
- 9.2 Plans, Specification, and Estimates (PS&E) Documents
- 9.3 Drainage
- 9.4 Bridge Design
- 9.5 Signing, Marking, & Signalization
- 9.6 Traffic Control

Task 10 - Construction Phase Services (Page 27)

- 10.1 Advertising, Bidding Phase
- 10.2 Construction Phase Shop Drawings, Requests for Information

Project Management

Purpose: To coordinate and integrate the work of the project team (Engineer, County, and GEC) in an efficient and timely manner; and to ensure the highest quality work on all tasks in this work authorization.

Task 1 – Project Management and Communication Plan

1.1 Meetings

The Engineer will:

- Develop a Project Management Plan that will establish all the responsibilities and roles of the team members, including the prime firm and subs. The plan will also detail the procedure process for all submittals and the QA/QC process that will be followed.
- Hold initial kick-off meeting with all team members during the first week after receiving the notice to proceed. QA/QC procedures will be detailed during this meeting.
- Hold weekly staff meetings at the Engineers office beginning with the second week of the
 project, after three months meeting will be reduced to bi-weekly through final submittal of the
 PS&E package. The staff attending will be appropriate based upon the current assignments.
- Send weekly email updates to Williamson County, Prime Strategies Inc. and Commissioner Covey. These updates will summarizes the weekly staff meetings and keep the County updated on the project progress.
- Hold a Schematic Concept /Criteria Determination Meeting during the first week of the
 project at the County Office to discuss constraints that will aid in establishing the criteria for
 developing a decision matrix on possible schematic alternatives. The Engineer will
 document various criteria including (but not limited to) roadway, hydraulic, structural,
 landscape, environmental, bicycle and pedestrian design criteria based on (and in the
 following order): Williamson County Design Guidelines; TxDOT; and AASHTO.
- The basis for the design criteria will be from the latest versions (unless otherwise noted) of the following manuals and publications (other manuals/publications referenced in these

manuals are to be understood to be included, but they will not be listed): Williamson County Design Guidelines, TxDOT Roadway Design Manual, A Policy on Geometric Design of Highways and Streets (AASHTO "Green Book"), TxDOT Hydraulic Design Manual, TxDOT Standard Specifications for Construction of Highways, Streets, and Bridges (2004), Texas Manual on Uniform Traffic Control Devices, and the Highway Capacity Manual - Transportation Research Board.

- Hold bi-weekly Progress Meetings at the County between the Counties Engineer, GEC,
 Project Manager and appropriate Engineer staff members. The first meeting will occur two
 weeks after the Schematic Concept Meeting. Estimate fifteen (15) progress meetings lasting
 up to 1 hour each, and involving appropriate personnel from the Engineer's staff (depending
 on the topics to be discussed).
- Hold a Public Awareness Meeting with the intent of updating the community regarding the plans for the project and have landowners sign Right-of-Entry documents, see the environmental section for more details.
- Milestone Meetings will be held for each of the following submittals: Schematic, 60% PS&E, 90% PS&E, and 100% PS&E.
- Hold Oversight Review Meeting for each milestone submittal. The oversight review meeting
 will consist of the County/GEC providing comments and redlines on the milestone submittal
 providing the County/GEC the opportunity to discuss those comments or questions in detail.

1.2 QA/QC & Document Control

The Engineer will:

- Perform Document Control throughout the entire project. All documents and submittals from every member of the Engineers team will go to the QA/QC manager. Appropriate reviews and documentation of that review will be required at that time. Upon approval by the QA/QC manager the document will be given to the Project Manager for inclusion in the current submittal package.
- Require these reviews: Detailed Check Review for all designs, Inter-discipline coordination review, detailed plan review, and County/GEC oversight review.
- Maintain a Log Book of all submittals and documentation of the reviews and it will be made available to the GEC at their request.

1.3 Invoicing, Contract Document Coordination

The Engineer will:

- · Prepare monthly progress reports.
- Prepare monthly invoices for submission to the County for all requests for payment.

1.4 Sub Consultant Management

The Engineer will:

- Monitor and supervise sub consultant activities (staff and schedule).
- Review all work products prepared by sub consultants.
- Require Subconsultant to perform Detailed Check Reviews of their own work and participate in Inter-discipline Coordination Reviews.
- Review and approve sub consultant progress reports and invoices.

1.5 Project Scheduling

The Engineer will:

- Prepare an initial schedule for approval by the County/GEC indicating tasks, milestones, major meetings, and reviews.
- Provide monthly progress schedules with the progress reports and invoices.

Deliverables:

- · Meeting minutes,
- · Monthly invoices and progress reports
- Schedule and Monthly Schedule Updates
- QC Log Book

Task 2 - ROUTE AND DESIGN STUDIES

2.1 Field Reconnaissance

At various times throughout the schematic design process, the Engineer will conduct site visits to collect data on geometry, clearances, drainage issues, and other engineering aspects, and collect additional photography of existing conditions. For the purposes of estimating the effort for this task, it is assumed that the design team will conduct five (5) site visits using two (2) personnel and will develop a digital video of the corridor and cross streets.

Deliverables:

- Brief Field Reconnaissance Reports/pictures detailing any findings which could affect schematic development.
- Digital Video of the Reagan Blvd. Corridor on CD (3 original CDs)

2.2 Evaluation of LIDAR Data; Surveying

The County currently has 2' Counter files developed from LIDAR data. Verification of the level of accuracy of the data will be performed.

- Surveyor to provide verification shots for county LIDAR. Shots will be taken every 1000 feet. The shots along a given cross section will be performed at locations that will provide at least four shots that hit existing pavement, open terrain, terrain with moderate brush, and terrain with heavy brush.
- Engineer to analyze ground survey obtain by surveyor to the matching points from LIDAR.
- An aerial survey will be required in the event the LIDAR data is not sufficient.
- The County is advised that if 2' contours are used, potential variances in such items
 as earth work calculations, side slopes location errors, etc. could still result
 regardless of the preliminary analysis. These types of errors could result in
 unexpected costs associated with the construction.

Deliverables:

Memorandum documenting the evaluation of LIDAR data.

2.3 Traffic Counts and Traffic Analysis

2.3.1 - Traffic Volumes

Projected volumes along Ronald Regan Blvd will be based on CAMPO travel demand model projections. A validation of the CAMPO projected volumes will be provided based on 24-hour historical data along State Highway 195, CR 237 and CR 239. This information will be combined

with the projected volumes from the CAMPO travel demand model to establish a future traffic volume along the corridor.

Historical traffic data will be provided by TxDOT along SH 195 and by Williamson County along CR 237 and CR 239 where available. TCB will coordinate with CAMPO on the projected year 2035 volumes from the travel demand model.

2.3.2 – Operational Analysis

An operational analysis will be performed along Ronald Regan Blvd using the future traffic volumes established in Task 1. This analysis will determine build year and year 2035 operations for a two lane undivided highway. The analysis will also estimate when the proposed two lane highway will exceed LOS C or LOS D (defined as acceptable by Williamson County) which will precipitate the need for additional highway capacity.

The analysis will be performed using methods outlined in the 2000 edition of the Highway Capacity Manual.

2.3.3 - Written Report

A technical memorandum will be developed which will outline the findings of the analysis including all data collection, observations, assumptions, and measures of effectiveness for the proposed improvement. The primary measure of effectiveness will be level of service.

A traffic signal warrant will be performed for the intersection of SH 195 and Ronald Regan Blvd. The study will be based on the future traffic volume estimates established in Task 1. The analysis will conclude if a signal is warranted in the build year. If a signal is not warranted in the build year, an analysis will be performed to determine when a traffic signal may pass warrant in the future based on estimated traffic growth rates.

The warrant analysis will be performed based on methods outlined in the Texas Manual on Uniform Traffic Control Devices 2006 edition.

Deliverables:

· Traffic Impact Analysis Memorandum.

2.4 Preliminary Drainage

The Engineer shall develop and perform the following for the preliminary drainage design as related to the project layout to determine the preliminary bridge and culvert designs, determine ditch design to convey the runoff properly, and accommodate the required amount of water quality mitigation measures:

- Visit the project site and collect pertinent and available data.
- Delineate drainage area maps for each crossing of the project. Eight (8) crossings have been identified:
 - Three bridges over FEMA regulated streams
 - o Five additional culvert crossings for unnamed tributary channels.
- Determine existing and proposed storm water discharges at all stream crossings and those required for project drainage. Discharges will be determined using the appropriate method or modeling program depending on the size of the drainage area. The storm frequencies will be the 25-year design event and checked for the 100-yr events, for the bridge locations

and culverts, assuming existing conditions. Drainage calculations and design will be in accordance with the Williamson County Drainage Criteria Manual.

- Develop hydraulic models for each of the crossings using available data sources such as LIDAR data. The preferred computer programs for river hydrology and for hydraulics are HEC-HMS and HEC-RAS, respectively.
- Analyze ditch conveyance and potential for erosion (based on shear calculations) to determine if additional ROW or special grading is required.
- Analyze outfall treatments of the five culverts previously identified and determine grading requirements and the need for drainage easements.
- Provide preliminary Total Suspended Solids (TSS) Calculations Based on the existing and proposed typical sections, calculate increase in TSS loading. In selecting proposed Best Management Practices (BMP), prioritize the selection based on the maintenance requirement. Calculations and preliminary analysis of proposed BMP's will determine if additional ROW may be required.

Deliverables:

Brief Hydraulic Summary to accompany schematic.

2.5 Preliminary Construction Estimates

As part of the Decision Matrix performed after the Schematic Concept /Criteria Determination Meeting the Engineer will prepare a preliminary construction estimate for up to two (2) alternative schematic designs (5 lanes). The Engineer will also prepare preliminary construction estimates for two (2) additional "interim" projects separate from the schematic (2 lanes).

The estimate will be in Microsoft Excel spreadsheet format, reflect current bid items and descriptions, and contain all major items that will likely be on the project (e.g., earthwork, pavement structure items, bridges, retaining walls, MBGF, signing, drainage features, etc.) Current TxDOT unit bid prices, with a reasonable adjustment for inflation to the anticipated bid opening date, will be used in preparation of the estimates.

A Decision Matrix will be created that details the differences in the alternatives and the associated costs. A directive will be provided by the County based upon the matrix as to the desired alternative to proceed with for this project.

Deliverables:

- Preliminary Construction Estimate for each of 2 alternative schematics (estimated at one (1) iteration per alternative)
- Preliminary Construction Estimate for each of two (2) additional "interim" projects separate from the schematic

2.6 Schematic Development

The Engineer will develop Alternative design schematics and a Geometric Schematic for the proposed RRB4. The content shown on the alternative design schematics will include items mutually agreed upon by the Engineer and the County such as listed in items 1 thru 10 below and as taken from the Austin District Design Schematic Checklist and the Schematic Layouts section from the latest version of TxDOT's Roadway Design Manual. The Geometric Schematic will contain all of the content shown on the alternative design schematics and will also include those items listed in items 11 thru 17:

- 1. Existing and proposed typical sections
- 2. The location of intersecting roadways and driveways
- 3. Horizontal and Vertical alignments for proposed improvements. Vertical alignments may be shown on a separate plot.
- 4. Proposed striping and lane shading
- 5. Existing and proposed ROW information
- 6. Existing 2008 and projected 2030 traffic volumes
- 7. Traffic flow arrows (lane designations)
- 8. Proposed lanes, cross streets, right turn lanes, left turn lanes, etc.
- 9. Existing utility information
- 10. Proposed widening of existing structures, replacement structures, and new structures
- 11. Design speeds of lanes and cross streets
- 12. ITS information (if any)
- 13. Existing and proposed hydraulic information (100-year WSELs & flow velocities) for cross drainage structures including water quality / detention facilities (if any)
- 14. Large guide signs (if any)
- 15. Proposed noise barriers (if any)
- 16. Existing and proposed control of access, (if any)
- 17. Illumination (if any)

The completion of the schematics will be accomplished in the following subtasks:

2.6.1 Incorporate Work Done by Others

The Engineer will show changes to be made by the future TxDOT SH 195 project in the Alternate and Geometric Schematics.

2.7 Typical Sections

The Engineer will develop typical sections for existing CR 237, existing CR 239, existing and proposed cross streets, and interim and ultimate proposed typical sections for RRB4. The ultimate RRB4 Typical Sections will accommodate a minimum of two (2) eastbound lanes and two (2) westbound lanes. The RRB4 ultimate typical sections for a four lane divided facility with paved median will provide for four (4) foot inside and ten (10) foot outside shoulders, clear zones, and potential utility zones, traffic signals at SH 195, signing, and utility needs. The interim typical section (phased construction) will allow for two (2) lanes with 10-foot shoulders on each side.

2.8 Develop Horizontal Alignments

The Engineer will develop horizontal alignments for RRB4 and for each cross street that intersects RRB4 as follows:

- 1. SH 195
- CR 237
- 3. CR 238
- 4. CR 239

2.9 Develop Vertical Alignments and balance earthwork

The Engineer will develop vertical alignments for all lanes and locations listed in 10.3.1 above. The Engineer will evaluate the geometry, cross slopes, earthwork balancing, and anticipated operations when developing the vertical alignments.

2.10 Develop Cross Sections

The Engineer will develop existing and proposed cross sections, at 100 foot intervals at a scale of 1" = 20' horizontally and 1" = 10' vertically on a roll plot of RRB4 and of SH 195 within the limits of construction and of cross streets within 200 feet of RRB4. This will help to evaluate cross slopes, identify and possibly eliminate potential retaining wall locations, identify and evaluate existing and proposed drainage issues, bridge widening issues, and other potential construction issues or impacts.

2.11 Alternative Schematics Development

As the project requires, the Engineer will develop one schematic selected from the 2 options developed during from the decision matrix. The alternative schematic options will be developed to a level that will enable the engineer to quantify such factors as: cost, right of way acquisition required, traffic operations, environmental concerns and constraints, utility relocations or adjustments, etc. The comparison of such factors will greatly assist in the selection of a preferred alternative. The resulting preferred alternative schematic will be further developed into the geometric schematic.

Deliverables: One (1) Alternative Schematic Workshop Summary

One (1) Decision Matrix

2.12 Prepare Geometric Schematic

The Engineer will perform the following prior to submission of the final Geometric Schematic for approval:

The Engineer will compile and display the design working drawings in final deliverable format. The schematic full scale will be 1"=100' horizontal and 1"=10' vertical. The Engineer will submit three (3) originals of the Draft Geometric Schematic on roll plots at half scale. The Engineer will incorporate the revisions by the County and deliver the final Design Schematic. The Geometric Schematic deliverables will include:

Deliverables:

- 1 Three (3) color paper originals of the Draft Geometric Schematic on roll plots at half scale
- 2 Two (2) color paper originals of the Geometric Schematic on roll plot at full scale and one (1) at half scale
- 3 Graphic files on CD-ROM, used in developing the schematic

2.13 Implementation Plan and Conceptual Sequence of Work & Traffic Control Plan

The Engineer will prepare an Implementation plan to construct the schematic improvements. The Engineer will develop drawings to document the expected construction approach during the PS&E phase of the project concentrating on phasing at the intersecting streets.

The work within this task will be coordinated with the County and will be performed in the following subtasks:

2.13.1 Develop Conceptual Construction Sequencing and Traffic Control Plan

The Engineer will prepare a conceptual sequence of work and traffic control plan that will include a set of drawings that outline the sequencing concepts developed and a narrative to describe construction activities during each stage of construction for each alternative schematic. The construction sequencing plan will also consider effects on adjacent property owners.

2.13.2 Sequence of Work Estimate

The Engineer will develop a cost estimate for the construction sequence of work for those items over and above the construction estimate.

Deliverables:

- Conceptual Traffic Control Plan
- Sequence of Work Estimate

Task 3 – Right-of-Way

3.1 Adjacent Property Ownership

The Engineer will research and obtain ownership information and address for the properties adjoining IH 35 between SH 195 and IH 35. The Engineer will develop a ROW file in MicroStation that displays the IH 35 ROW lines and private property lines. The Engineer will develop a Right of Way Cost Estimate based on values listed in the Williamson County Central Appraisal web-site.

Deliverables:

- · Excel file with Ownership Data
- ROW cost estimate
- · ROW .dgn file with ROW and property lines shown

Task 4 - Field Surveying

4.1 Field Surveying

4.1.1 Field Survey Coordination

- Provide ROE for 48 tracts
- · Provide deed research to verify latest tract ownership
- · Provide boundary surveys for 31 tracts
- Provide acquisition maps (field notes & exhibits) for 31 tracts
- Provide cross-sections at 7 creek crossings 6 cross-sections/creek
- Provide building/structure/culvert/drive/utility, etc. location (X,Y,Z) within 350' of proposed ROW
- Provide 100-ft cross-sections along County Road 239 and CR 237 for potential overlay.
- Provide 50' cross sections along CR 238 to 200' from proposed Reagan centerline
- Provide improvements, utility locations, driveways, etc. along County Road 239
- Stake/locate bore holes
- Provide cross sections at 50' intervals along SH 95 in the area of widening and reconstruction. Locate utilities, other obstacles, tie in driveways and adjacent roadways.
- Provide design survey and location of existing tie-in at IH 35

Provide driveway profiles to 200' back of the proposed ROW line.

4.1.2 Supplemental Field Survey

The Engineer will perform miscellaneous design surveying such as drainage sections, pavement ties, utilities, driveways, and supplemental topography, etc. as required for design.

Task 5 - Water Pollution Abatement Plan

5.1 Water Pollution Abatement Plan

Prepare a Water Pollution Abatement Plan (to include the following work):

- Obtain and review copies of the USGS maps showing the location of the Edward's Aquifer Recharge Zone (EARZ). Determine the limits of the project within the EARZ and within the contributing zone of the Edward's Aquifer.
- Prepare the WPAP per the Texas Commission on Environmental Quality requirements. Obtain permit approval from TCEQ.
- Design of Filtration is assumed to be by vegetative filter strips within the proposed ROW. Design of any other BMP will require additional services.

Deliverables:

• WPAP (2 Copies)

TASK 6 - UTILITIES

6.1 - UTILITY ADJUSTMENT COORDINATION

The Engineer shall coordinate all activities with the County, or their designee, to facilitate the orderly progress and timely completion of the County design phase. Scope and fee are based on the assumption of coordination with 5 utility companies. The Engineer will be responsible for the following:

- **6.1.1 Work Plan.** Coordinate a work plan including a list of the proposed meetings and coordination activities, and related tasks to be performed, a schedule and an estimate the work plan must satisfy the requirements of the project and must be approved by the County prior to commencing work.
- **6.1.2 Orientation.** Prepare and present, in collaboration with County staff, instruction and orientation sessions. The instruction shall introduce the subsurface utility engineering process, demonstrate the technology and facilitate the preparation of work orders, billings, and contract related documentation.
- **6.1.3 Initial (Kick-Off) Project Meeting.** Attend an initial meeting and an on-site inspection appropriate to ensure familiarity with existing conditions, project requirements and prepare a written report of the meet.

6.1.4 Coordination of Utility Data

Identify Existing Utilities; the Engineer will identify and coordinate all existing utility information using available data sources, including:

A. Texas One Call System

- B. Site visit
- C. Survey information provided from the District
- D. Preliminary Design Meeting
- E. Utility block maps
- F. Record drawings
- G. As-built drawings
- H. Any other information provided by the utility companies.

6.1.5 Utility Tracking Report

The Engineer will create, provide and maintain a Utility Tracking Report spreadsheet, in Excel format, containing at a minimum the following information:

- A. Name of Utility
- B. Contact Name/Address/Phone/E-Mail
- C. Type of Facility
- D. Utility Notification Date & Type
- E. Last Date of Contact
- F. Within ROW or Private Easement
- G. Possible conflict
- H. Potential Conflict Location Data Information
- I. Location of possible conflict
- J. Comments Section this section will be used to track all coordination from each utility company week to week via e-mail, phone call, meeting, etc. This section will contain dates of correspondence.
- K. Action Item Required this section will list any action items that are necessary from any party.
- L. Action Item Due Date

6.1.6 Preliminary Design Package:

The Engineer will prepare Certified Return Receipt Notification Packages for every identified utility company that will include a Draft Existing Utility Layout and copies of the available design plans. It will also include a Notification Letter on County letterhead (template provided by County) notifying the utility company of the project, listing the limits of the project, estimated construction cost, letting date and date and time of the Preliminary Design Meeting that will be held at the Engineer's or County Office. Requests will be made for utility companies to provide all utility block maps, record drawings, As-Builts and any other information they have pertaining to their existing facility within the project limits.

6.2 - UTILITY ENGINEERING

The Engineer will be responsible for identifying all of utility conflicts, coordination, compliance with the UAR, and resolution of utility conflicts. The Engineer shall coordinate all activities with the County, or their designee, to facilitate the orderly progress and timely completion of the County's design phase.

6.2.1 Existing Utility Layout

- **6.2.1.1 Map Existing Utilities**: The UC will use the information obtained in Item 12.4 above to map existing utilities.
- **6.2.1.2** Prepare Draft Existing Utility Layout: The UC will prepare a scaled color Existing Utility Layout, on 11"x17" sheets, the ENGINEER shall maintain a utility layout in

MicroStation format. The information will be provided in a format compatible with the current CADD system used by or specified by the County. This layout shall include:

- A. All existing utilities which are to remain in place or be abandoned know to date
- B. Existing and Proposed ROW
- C. Existing and Proposed Easements
- D. Existing and Proposed edge of pavement
- E. All existing and proposed storm sewer, bridge structures, retaining walls as well as any other pertinent structures in which the utility could be in conflict with
- F. Size, location, ownership, and number of lines in a particular location of all facilities/utilities
- **6.2.1.3** Prepare Final Existing Utility Layout: This work can be added as a supplemental agreement if the County desires final signed and sealed layouts.

6.2.2 Potential Conflict Location Datasheet

The Engineer will establish a conflict list of all utilities that are in direct conflict with the proposed design. This list will note all conflicts by station number -right or left, note what the utility is in conflict with- such as pavement, storm sewer, bridge layout, retaining wall, or other roadway designed feature. This information will be included as part of the Utility Tracking Report.

- 6.2.3 Public, Initial Project Notification & Individual Meetings with Utility Companies as required to facilitate utility conflict identification and resolution.
 - **6.2.3.1 Establish Contact** with all existing utility companies within and adjacent to the project limits and set up utility coordination meetings to discuss concepts and options for construction.
 - **6.2.3.2** Set agenda for all coordination meetings.
 - **6.2.3.3** Establish and promote the desired agenda and methodologies for utility construction within the project limits as directed by the County. The promoting of utilities as part of the Highway Contract will be discussed and approved by the county prior to any meetings with the utility companies/owners.
 - **6.2.3.4 On-Site Inspection**: Complete an on-site inspection to ensure familiarity with existing conditions and project requirements.
- **6.2.4 Progress Meetings**: Meet with County's Utility Coordinator, County's Engineer or representative, and the roadway Design Engineer- whether the County or County's Consultant/Consultants periodically (up to 8 meetings) to coordinate the work effort and resolve problems and prepare a written report of such meetings. The meetings will review:
 - · Activities completed since the last meeting
 - Problems encountered.
 - Late activities.
 - Action Items as required or as needed by the next progress meeting.
 - Monitor Action items to be delegated or assigned accordingly.
 - Solutions for unresolved and/or anticipated problems.
 - Information or items required from other agencies/consultants.

6.2.5 Review of Utility's Proposed Adjustments

6.2.5.1 Evaluate Alternatives: The Engineer's PE will evaluate alternatives in the adjustment of utilities balancing the needs of both the County and the Utility.

- **6.2.5.2** Review Estimates and Schedules: The Engineer's PE will review the utility adjustment estimates for reasonableness of cost and the timely scheduling of the adjustment.
- **6.2.5.3** Review Plans for Compliance with Utility Accommodation Rules and proposed location data. The responsibility for quality and accuracy of Utility adjustment plans will remain with the Utility. The Engineer will provide the County written verification that every effort was done to ensure all utility conflicts are clear for highway construction.
- 6.2.5.4 Review Traffic Control Plans. Review necessary traffic control, labor and equipment are utilized where applicable during the utility relocation process. The Engineer's PE shall ensure compliance with the regulations of the most recent edition of the "Texas Manual on Uniform Traffic Control Devices". The Engineer's PE must obtain approval from the County Engineer concerning the proposed method of handling traffic prior to allowing commencement of work.

6.2.6 Subsurface Utility Engineering (SUE) Work Plan

The ENGINEER will utilize the Existing Utility Layout to evaluate the nature of the conflict, and develop a plan to perform additional SUE investigations in a cost-effective manner should the need become necessary. If it is determined that Level A or B SUE is required, these services will be added under a supplemental work authorization.

6.2.7 Utility Certification/Special Provisions/Permits:

The Engineer's PE shall submit upon request from the County under a supplemental work authorization.

6.2.8 Utility Perform QA/QC

The ENGINEER will perform a QA/QC review of the Existing Utility Layout sheets, the Utility Tracking Report spreadsheet, and Conflict Location Data Table.

6.2.9 Submittals to the County

The ENGINEER will submit the appropriate forms as detailed in the UAR and supplied by the County, a copy of the recorded easement Deed, plans, and estimate to the County by letter recommending approval (6 copies of each). The transmittal should provide a description of the work being done as well as the estimated cost and schedule of work.

6.2.10 Utility Coordination Meetings

The ENGINEER will arrange and attend meetings with utility companies to coordinate data collection, resolve conflicts, allot the locations of each conflicting utility assignments, coordinate construction schedules and assist with traffic control plan when necessary. It is assumed that there will be 2 coordination meetings per utility.

Utility Construction Management services can be provided as additional services if needed.

Deliverables:

- Provide Utility Companies Contact List
- Provide Utility Adjustment Status Reports
- Provide 1st Notification Packages for each utility (mailed certified return receipt)
- Provide Existing Utility Layouts
- Provide Utility Tracking Report w/conflict location data
- Meeting Minutes (delivered electronically)

- Provide all correspondence files
- Provide all project files for WA
- Provide monthly schedule, updating all utility coordination involved on the project

Task 7 - ENVIRONMENTAL

7.1 - Public Involvement/Planning

In coordination with the engineering analysis of the alignment, we will prepare an environmental constraints database and incorporate environmental factors into the selection of the preferred route for the roadway. This task will involve gathering existing data, coordination with the project team, preliminary site investigations, and utilizing GIS to depict and analyze the information.

Once a preliminary route is selected or confirmed, we will look for stakeholder input. TCB will develop exhibits with parcel maps, USGS topographical maps, aerial photos and proposed alignment for two stakeholder meetings – one for local land owners and one for local governments. TCB will facilitate these meetings.

We will also organize, arrange for and hold a public awareness meeting with the community at large. This meeting will be more of an open house format with the purpose being to present the proposed alignment, cross-sections, tie-in points and other issues for public input and so that the surveyor can obtain signatures on right-of-entry forms. Exhibit maps will be prepared for each of these meetings. Notices of public meeting will be publicized in local newspaper. Memoranda will be prepared from each meeting, and included in the final deliverable.

7.2 - Environmental Analysis

TCB will perform and/or manage environmental surveys and prepare necessary environmental documents needed for compliance with local, state and federal environmental permitting issues. Under this task, TCB will manage the work of the subcontractors, coordinate with the engineering team, and oversee agency coordination and correspondence. As part of this task, the following will be done:

Texas Historical Commission (THC), Cultural Resources Compliance – a cultural resources survey, including archeological and historic structures, will be required to be submitted to the State Historic Preservation Officer (SHPO). This task is explained in more detail below.

Edwards Aquifer Contributing Zone Plan, Texas Commission on Environmental Quality (TCEQ), Title 30, Chapter 213, Texas Administrative Code. A Geologic Assessment (GA) of the project limits is required to be included in a Water Pollution Abatement Plan (WPAP) per the Texas Commission on Environmental Quality's (TCEQ) Edwards Aquifer Rules. This task is explained in more detail below.

Clean Water Act Section 404, U.S. Army Corps of Engineers (USCE) – The current alignment crosses several waterways. Based on our current knowledge of the project area, we assume that the proposed road would probably fall under the provisions of Nationwide Permit 14 for Linear Transportation Projects. Evaluation of the various alternatives and potential jurisdictional areas will be needed for a definitive determination. This task is explained in more detail below.

Endangered Species Act compliance, US Fish and Wildlife Service (FWS) – The proposed alignment will be reviewed for suitable habitat for each of the endangered species listed in

Williamson County including those species listed in the proposed Williamson County Habitat Conservation Plan. This task is explained in more detail below.

National Environmental Policy Act (NEPA), TxDOT and Federal Highway Administration – A portion of the project occurring on state right-of-way will require environmental documentation and review under NEPA. This task is explained in more detail below.

7.3 - Geologic Assessment

Since the project is in the recharge zone of the Edwards Aquifer, our scope of services includes conducting a Geologic Assessment (GA) of the project limits which is required to be included in a Water Pollution Abatement Plan (WPAP) per the Texas Commission on Environmental Quality's (TCEQ) Edwards Aquifer Rules (Title 30 Texas Administrative Code [TAC] Chapter 213). The purpose of the geologic assessment is to describe the surface geology of the project limits and to identify significant or sensitive recharge features in the right-of-way and immediately adjacent area. The Geologic Assessment and report will be prepared and sealed by a Texas-licensed Professional Geologist and submitted for inclusion in the WPAP submittal package.

The assessment will include a description of the geologic units exposed at the surface within the project area. Significant or obvious recharge features identified in the project limits, if any, will be described and evaluated to determine their environmental sensitivity and recharge potential using the required TCEQ format (TCEQ-0585 and Geologic Assessment Table). The feature characteristics and physical setting of the area draining to any identified features will also be discussed. TCB will also incorporate data, as necessary, from geologic assessments previously conducted within the right-of-way, if available.

We will mark any significant or environmentally sensitive features identified in the project limits with flagging tape and identify their approximate locations on a site plan. We will also generate a map showing surface geologic units, faults, fracture zones, and sensitive features (sinkholes, caves, etc.) for inclusion in the WPAP report. The Geologic Map shall not use color and will be presented on 11 x 17 Plan Sheets. Fifteen copies will be provided for inclusion in the WPAP submittal package.

7.4 - Karst Feature Survey

Our scope of services will also include conducting a Karst Feature Survey of the project limits per U.S. Fish and Wildlife Service (USFWS) guidelines. The karst feature survey will be performed by a qualified geologist concurrent with the GA described above and in accordance with the methodology described in the USFWS's "Karst Feature Survey Protocols" dated March 8, 2006. The purpose of the survey is to determine that no karst features that are likely to support federally listed karst invertebrates are located within the project limits and that there are no karst features on or off the property that may be impacted by the planned development. The Karst Feature Survey report will be prepared by a qualified geologist in accordance with the USFWS protocols and submitted to TxDOT.

The survey will be accomplished by conducting a field survey of the ground surface for the presence of karst features. The field survey will be conducted by a TCB geologist walking transects spaced about 25-feet apart within the subject right-of-way. Closer spacing of transects may be required based upon the density and type of vegetation encountered within the right-of-way. Karst features identified in the project limits, if any, will be described and their locations identified in the field with flagging tape and recorded using Global Positioning System (GPS) equipment. Prior to initiating the field survey, available geologic maps and published cave surveys and available

databases will be reviewed for any known features (including caves, sinkholes, and faults) within approximately 0.5 mile of the project limits. Existing aerial photographs of the project limits and immediately adjacent areas will also be reviewed for evidence of fractures, lineaments, sinkholes, faults, and other relevant features. Excavation of features identified within the project limits, if any, is not included in this scope of services. If features are encountered within the right-of-way, a cursory assessment of the features will be conducted to better determine the presence or absence of drainage portals extending into the subgrade and for the presence of airflow potentially indicating a subgrade void. Excavations of any features identified would be subcontracted through an individual permitted to collect endangered karst invertebrates. In addition, the field survey will be conducted within the right-of-way only. No field survey of the ground surface of adjacent properties is included in this scope. However, TCB will conduct a visual survey of adjacent properties for the presence of karst features and discuss the findings of this survey in the Karst Feature Survey report.

7.5 - Endangered Bird Species Survey

Other than the cave-dwelling species, the two listed species most likely to be encountered in Williamson County are the golden-cheeked warbler (GCW) and black-capped vireo (BCV). A habitat evaluation will be performed of the proposed alignment to inspect and describe vegetation communities and evaluate the potential for those communities to provide habitat for federally listed endangered or threatened species.

If suitable habitat for the GCW or BCV species is identified during the habitat assessment described above, presence/absence surveys during the spring would be required to determine if listed species are actually utilizing the habitats within the proposed roadway alignment. The level of effort for the presence/absence surveys will depend on the potential habitat defined in the habitat survey; therefore, the scope of work for the presence/absence surveys will have to defined at a later time.

The results of the habitat survey will be submitted as a separate report. The document will include a map depicting the distribution of endangered or threatened species habitat occurring along the proposed alignment.

7.6 - Archaeological Investigations

Background Review and Permit Application

Because the project involves lands owned by a political subdivision of the State of Texas (Williamson County and/or the Texas Department of Transportation [TxDOT]), any archaeological field investigations will require a Texas Antiquities Permit in compliance with the guidelines of the Antiquities Code of Texas. We will prepare a permit application, coordinate with the political subdivision for the requisite information and signatures, and submit the permit package to the Texas Historical Commission (THC), the permitting and reviewing agency. The THC has 30 days to review the application and issue the permit, however they typically only take 2-5 days.

Concurrently with the permit application, a qualified archaeologist will conduct a background archaeological literature review. The archaeologist will search site files and maps at the Texas Archeological Research Laboratory and the THC's on-line database for any previously recorded surveys and historic or prehistoric archaeological sites located in or near the project area. The archaeologist will also examine the following sources: the Soil Survey of Williamson County, Texas, the Geologic Atlas of Texas, the USGS topographic map of the project area, and an aerial photograph of the project area. This will provide important site and geographic information that will

be essential to the discovery and interpretation of any undiscovered cultural resources on the property.

7.7 - Archaeological Survey

Once Task I has been completed and the permit has been obtained, we will conduct an archaeological field survey of the proposed 6.6-mile project area. The field survey will consist of archaeologists walking the entirety of the proposed improvement project area. The survey will be of sufficient intensity to determine the nature, extent, and, if possible, potential significance of any cultural resources located within the proposed project area. During the survey, the archaeologist will be examining the ground surface and erosional profiles for cultural resources. Survey will be restricted to the existing ROW and will combine reconnaissance with intensive pedestrian survey. To explore for buried cultural resources, we will excavate shovel tests along the alignment. No mechanical trenching is currently proposed for the archaeological investigations.

Shovel testing will be used in areas with a potential for shallowly (less than 1 meter) buried sites. Where performed, shovel tests will be systematically excavated along the easement and additional shovel tests may be required to define site boundaries. THC survey standards call for 16 shovel tests per mile of 100-ft wide ROW or a sliding scale based on acreage. The number of shovel tests will likely be reduced depending on the level of previous disturbances, the nature of the soils, and the topographic setting. Shovel tests will be excavated in 20-cm arbitrary levels to 1 m in depth or to culturally sterile deposits, whichever comes first. The matrix will be screened through ¼-inch mesh. The location of each shovel test will be plotted using a sub-meter GPS receiver, and each test will be recorded on appropriate project field forms. Areas with previously recorded sites or other cultural resources revealed in the archival research will require additional shovel testing to explore the nature of the cultural deposits. Shovel tests will be excavated to the depth of project impacts, if possible.

Any discovered or previously documented sites, both prehistoric and historic, will be documented on appropriate forms and plotted on USGS 7.5-minute topographic maps and appropriate project maps for planning purposes. Additional shovel tests will be excavated to define site boundaries within the project area. We are proposing a non-collection survey. Artifacts will be tabulated, analyzed, and documented in the field, but not collected. Temporally diagnostic artifacts will be described in detail and photographed in the field. Only especially rare artifacts or discoveries will be collected. This policy will reduce or eliminate curation costs once the fieldwork is concluded.

7.8 - Archaeological Report Preparation

Once the background review and field survey have been completed, we will prepare a draft report of the investigations for review by the client and ultimately the THC. The archaeological report will conform to THC, Council of Texas Archeologists, and Antiquities Code of Texas reporting standards. It will document the general nature of the project area, the methodology used in the investigations, the presence and condition of any previously recorded sites revealed in the records review, the general nature and extent of cultural resources encountered during the archaeological survey, recommendations on the need for further work, and the potential significance of the cultural resources in regards to future development and State Archeological Landmark status.

Draft copies of the letter report will be submitted to Williamson County for review and comment. Once this has been accomplished, any appropriate edits will be made and a final draft report will be submitted to the THC and any other involved regulatory agency. The Texas Antiquities Code also requires that 20 copies of the final report be submitted once the project is completed. In addition, all recovered artifacts and documentation must be curated at an approved repository. In this case,

if artifacts are recovered and curation is needed, we will curate the materials at the Texas Archaeological Research Laboratory. Curation involves preparing the artifacts (washing, labeling, cataloging, etc.) and paying a fee for storage space. As we are proposing a non-collection survey, curation fees are not included in this cost proposal, we will submit a change order to cover the cost of curation in the unlikely event that artifacts are recovered.

7.9 - Historic Property Reconnaissance Survey

For the historic resource investigations for the project, we will first conduct a historic literature review of the project area. To be conducted in conjunction with the archaeological review, this review includes the examination of files at the THC to identify historic properties that have been previously listed in the NRHP, designated as Recorded Texas Historical Landmarks, and/or are included in the Texas Historic Sites Inventory or other available local historical surveys. We will also check other available archival sources, such as historic maps or aerial photographs, to locate previously unidentified potential historic resources in the project's area of potential effects (APE). A historic literature review will also be conducted to establish appropriate historical and cultural contexts for the project area.

Following completion of the preliminary research tasks, two architectural historians will carry out a reconnaissance field survey of the proposed alignment to identify and record historic buildings, structures, and objects within the project's APE. The historians will plot the location of each identified resource on a USGS (or similar) map, take photographs, obtain addresses, and gather physical data on the structure such as property type and subtype classifications, stylistic influences, construction dates, integrity issues and preliminary eligibility recommendations.

We will provide will provide Williamson County with four copies of a summary reconnaissance report that will include the following:

- A letter report containing an overview of the results of the reconnaissance survey. The letter report will describe the findings of the reconnaissance survey and recommend the need, if any, to conduct further survey efforts. The letter report will have sufficient detail and clarity to provide a basis for making determinations of NRHP eligibility.
- Photographic documentation for each identified historic resource. At a minimum, this documentation will include an oblique view of the primary facade and a side elevation of each resource, with the subject filling the frame. All photographs will be 3.5-x-5-inch or 4-x-6-inch color prints. All photographs will be well focused and clearly depict architectural and other details relevant to an evaluation of the resource's character-defining features. Photographs will be attached to separately labeled pages that clearly identify project name, address (or location) of resource, and site ID number.
- An inventory of all identified resources, provided in tabular form that lists their site ID numbers, locations, property and subtype classifications, stylistic influences, construction dates, integrity issues, and preliminary NRHP eligibility recommendations.
- A map or maps showing the location of each identified historic resource labeled with its appropriate site ID number. Outbuildings and landscape features will be reported as subsets of the main site ID number for a property. The project APE, major street names, and other directional landmarks will be clearly indicated on the map. Maps will be based on aerial photographs, USGS 7.5-minute quadrangle topographic maps, or similarly detailed maps.

Draft copies of the report will be submitted for review and comment prior to submittal to the agencies for their review. Once the draft has been reviewed, any appropriate edits will be made and a final report will be submitted.

7.10 - Waters of the U.S. and Section 404 Permitting

The proposed project will be evaluated for the presence of Waters of the U.S. subject to permitting under the U.S. Army Corps of Engineers Section 404 permitting program. If jurisdictional waters and/or wetlands will be impacted by the project, a description of technical factors, as applicable, (such as discussion if there is no practicable alternative to the construction) will be included in the Environmental Documentation. Additionally, if required by Section 404 of the Clean Water Act, appropriate permitting and mitigation will be proposed for impacts. This task includes inspecting the property under the field procedures outlined in the Corps of Engineers Wetland Delineation Manual – Technical Report Y-87-1. The proposed project will be reviewed for any impacts to waters of the U.S., including wetlands. Samples of vegetation, soils, and hydrology indicators will be taken at each change in topography or vegetation. Vegetation samples will be evaluated and recorded at each sample area. This task includes delineation of the ordinary high water mark at proposed crossings of the waters of the U.S. Inspection of the property for evidence or lack of wetland hydrology will be performed at each sample area. Soil samples will be evaluated at each test site for their hydric and non-hydric characteristics. Non-hydric soils verify upland status and are as significant as hydric soils in the determination process.

7.11 - Due Diligence Survey and Report

TCB will perform a Phase I Environmental Site Assesment (ESA) to identify recognized environmental conditions related to the subject properties where right-of-way may be needed. The Phase I ESA will include a review of historical documents, a site geological analysis, a site and area reconnaissance, regulatory status review, and a report of our findings, conclusions and recommendations. The Phase I ESA will be conducted in general accordance with the American Society for Testing and Materials (ASTM) standard E 1527-05: Standard Practice for ESAs: Phase I ESA Process. No drilling, sampling or laboratory analysis is included in this scope of services. The objective of the Phase I ESA is to identify Recognized Environmental Conditions prior to finalizing the right-of-way for the project. The Phase I ESA is not designed or purposed to determine the presence, degree, or extent of contamination at or near the subject site. This determination would require sampling and laboratory analysis. If potential sources of contamination are identified, then a Phase II - Field Sampling and Laboratory Testing program may be recommended.

7.12 - Categorical Exclusion Document

This scope is based on the assumption that a Categorical Exclusion (CE) environmental document will be required for TxDOT approval for the tie-in at SH 195. We assume that the Federal Highway Administration will not be required to approve the environmental document (Programmatic CE). Should a more complex document be required, such as an Environmental Assessment, the scope and fee presented herein will be subject to renegotiation. We also assume that public involvement specifically for this portion of the project in the form of meetings or hearings will not be necessary, and is not included as part of the preparation of the CE. The documentation will be prepared in accordance with TxDOT's *Environmental Manual*, and related guidance from TxDOT.

We will perform the following services:

Data Collection and Agency Coordination

Data Collection—All readily available environmental information relative to the project area will be acquired during initial research efforts, reconnaissance field surveys, and the appropriate local, state, and federal agencies

Agency Coordination—Coordination letters will be sent to the Williamson County Historical Commission and the Texas Historical Commission.

Environmental Investigations and Assessments for CE

The environmental studies will include a detailed assessment of the proposed improvements. The CE will be completed according to the current TxDOT *Environmental Manual*, the TxDOT Austin District's current CE outline, and procedures. The CE will consist of an evaluation of current economic, social, and environmental conditions and potential impacts on those resources as a result of the proposed project, including the items described below.

TCB will document the environmental constraints and potential impacts of the proposed improvements. The environmental document will include the following sections, as applicable to the project:

Chapter 1.0—Purpose and Need for Project

Chapter 2.0—Description of Proposed Project

Chapter 3.0—Affected Environment and Environmental Consequences

- Project Setting and Land Use
- Socioeconomic Issues
- Displacements
 - o Environmental Justice
- Parkland/Other Public Facilities
 - o Soils and Prime Farmland
 - o Water Quality
 - o Floodplains
 - Waters of the United States, Including Wetlands
- Air Quality
- Noise
- Vegetation
- Wildlife
- Threatened and Endangered Species
- Cultural Resources
- Hazardous Materials/Waste

Chapter 4.0—Recommendation of the Preferred Alternative

- Preferred Alternative
- Support Rationale
- Mitigation and Monitoring Commitments

The following provides specific methods of analyses for resources discussed, as applicable:

Vegetation/Wildlife — The vegetation of the project area will be categorized and evaluated according to TxDOT's Memorandum of Agreement (MOA) and Memorandum of Understanding (MOU) with TPWD. Wildlife habitat will be evaluated and potential impacts on wildlife will be assessed. It is assumed that no habitat mitigation will be proposed for this project.

Threatened and Endangered Species — Review of available U.S. Fish and Wildlife Service (USFWS) threatened and endangered species information on the internet and coordination with

TPWD will be initiated to determine the presence or absence of listed and proposed endangered or threatened species and critical habitat in the proposed project area. This scope does not include the preparation of a Biological Assessment or formal consultation under Sections 7 and 10 of the Endangered Species Act.

Deliverables:

- Two (2) copies of the preliminary draft CE report for client review and comment (Version 1)
- Revise preliminary draft CE and submit two (2) copies of the draft CE for TxDOT Austin District to review (Version 2)
- Revise draft CE and submit eight (8) copies of the revised draft CE for the client to submit to TxDOT Environmental Affairs Division to review (Version 3)
- Revise CE per comments from TxDOT Environmental Affairs Division and submit the Final CE for approval (Version 4)

Task 8 - Geotechnical Investigations

Proposed Construction

- Left turn lane added to SH 195
- Approximately 2.1 miles of reconstructed roadway (CR 239 and CR 237)
- Approximately 4.2 miles of new roadway pavement

Proposed Scope of Pavement Engineering Services

Field Investigation

- Provide traffic control where necessary
- Perform visual condition survey of subject CR 239 and CR 237
- Perform a Falling Weight Deflectometer (FWD) survey of existing subject CR 239 and CR 237
- Core subject CR 239 and CR 237 pavement, measure existing pavement section, and sample subgrade at approximately 10 locations

Laboratory Investigation

- Moisture Contents
- Atterberg Limit Determinations
- Gradation Analyses
- Soluble Sulfate Determinations

Pavement Engineering Report

- Results of visual and FWD survey of existing subject pavements
- Summary results of applicable laboratory testing

- Flexible pavement thickness design for new roadway pavement (geotechnical information to be provided by Williamson County)
- Recommendations for reconstruction of the existing subject pavement structure to achieve desired future traffic loading

Scope of Services Basis

- The above scope of services may change slightly based on site observation
- Traffic loading data will be supplied by others

Task 9 - PLANS, SPECIFICATIONS, AND ESTIMATE (PS&E) DEVELOPMENT

9.1 Engineering Summary Report:

The Engineer will prepare an engineering summary report that includes the design criteria, the alternative schematics, preliminary construction estimates, the preliminary sequence of work & TCP, and constructability and maintenance considerations. It shall also include a discussion that outlines the design decisions made during the development of the Geometric Schematic.

Deliverables: The Engineer will submit ten (10) drafts and ten (10) originals of the Engineering Summary Report to TxDOT.

9.2 Plans, Specifications, and Estimate (PS&E) Development

Roadway Design

The Engineer shall develop 4 design packages.

- 1. SH 195 widening and left turn development at Reagan Blvd. Intersection.
- 2. Reagan Blvd from the SH 95 Intersection to the west end of CR 237.
- 3. CR 237 overlay from the west end of CR 237 at Reagan Blvd to the IH 25 frontage road.
- 4. CR 239 overlay from SH 195 to point that CR 239 turns north.

The Engineer will develop the following plan sheets or perform the following engineering tasks in accordance with Williamson County's guidelines and/or the Austin District's PS&E manual:

- Roadway plan and profiles in coordination with the bridge layouts from SH 195 to CR 237.
- Typical sections required for RRB4, SH 195, CR 237, CR 238, and CR 239 from the
 preliminary typical sections and shall incorporate the pavement design developed by the
 engineer and approved by the County.
- Earthwork: The Engineer shall analyze the earthwork to develop cut and fill.
- Cross Sections: Develop final design cross sections at 100' intervals along RRB4, SH 195, and along each cross street for up to 200' back from the RRB4 centerline. The Engineer will develop the Cross Sections at 1"=10' and shall be delivered in standard GeoPak format on 11" x 17" sheets. Electronic files will be delivered on CD along with all other PS&E files.
- Miscellaneous Roadway Details Sheet.
- SH 195 / RRB4 Intersection Layout.
- CR 238 Intersection layout
- Driveway plan and profiles
- Title Sheet (with Index of Sheets thereon or on a separate Index of Sheets).

- **Project Layout** / Horizontal Alignment Layout with Horizontal Alignment Data shown thereon.
- **Summaries** for Bridge, Grading, Erosion Control, Signing, Pavement Markings & Delineation, Drainage, and SW3P.
- E&Q Sheet: Estimate and Quantity Data Sheet
- EPIC Sheet: Environmental Permits, Issues, and Commitments Sheet.

General Notes and Specifications

- General Notes: The ENGINEER shall prepare general notes for the project.
- **Specifications**: The Engineer shall prepare a list of specifications complete with standard and special specifications with applicable special provisions needed for the project.

Deliverables

- Electronic Graphics Submittal The ENGINEER shall provide to the County, an electronic deliverable (CD-ROM) of the plans (including standard drawings) for this project.
- Final Mylar Tracings (100%) The ENGINEER shall provide one set of 11"x 17" mylar originals
 with a registered Professional Engineer's seal on each sheet, and multiple sets of prints of the
 plans including all applicable standards as required for each submittal (see below).
- Submittals 30%, 60%, 90%, and 100% submittals will be made. Comments and revisions requested at the review meetings shall be incorporated into the plans for the subsequent submittal.

9.3 Drainage

The Engineer shall perform hydrologic and hydraulic analyses, designs and coordination needed to prepare project PS&E as described below.

9.3.1 FEMA Crossings

For bridge design and National Floodplain Insurance Program (NFIP) requirements the Engineer shall:

- Informally coordinate (obtain additional model and information) with the Floodplain Administrator.
- Update the FEMA regulated stream HEC-RAS models (3) and finalize the FEMA Floodplain Evaluation for these crossings. The deliverable will be an electronic copy of the existing and proposed HEC-RAS models to be included with the hydrologic and hydraulic reports (See next Item below)
- Produce one (1) bridge hydrologic and hydraulic report to include all three FEMA regulated
 crossings based on the schematic phase drainage work and submit a draft report to the County
 for review. The Engineer shall respond to County review comments, resubmit required interim
 reports (up to two (2) iterations), and one final report. The bridge reports must include the
 existing and proposed conditions for both the project design event and the 100-year (1-percent
 annual exceedance probability) event.
- Identify any needs that may require more effort than minor channel modification within the County right-of-way for meeting minimum FEMA requirements. The Engineer will provide creek modification sheets including plan and profile and cross-sections. The cross-sections limits are from right-of-way to right-of-way at 25' intervals.
- This scope does not include a CLOMR or LOMR for any of the FEMA crossings. If needed, this
 will be considered as additional services.
- Perform scour analysis for all three (3) bridge crossings.

9.3.2 Drainage Structure Design

For cross culverts, pavement drainage, and ditch design, the Engineer shall:

- Finalize cross-culvert hydrology and hydraulics developed under the schematic phase of the project.
- Compute pavement drainage runoff, and design ditches and driveway culverts (open system storm drain) to convey runoff. The Engineer shall include safety end treatments (SETs) for the driveway culverts. The design and calculations will be done in accordance with the City of Austin's Drainage Criteria Manual.

9.3.3 PS&E Drainage Sheets:

The Engineer shall prepare the following drainage PS&E sheets:

- Bridge Drainage Area Map & Hydrologic Data Sheet for the NFIP Report and plans.
- Bridge Hydraulic Data Sheet for NFIP Report and plans.
- Cross-Culvert and Roadway Drainage Area Layout Sheets for cross-culvert and pavement drainage Report and plans
- · Culvert Hydraulic Data Sheets for five cross-culverts.
- Culvert Plan and Profile Sheets for five (5) culverts
- · Ditch design and data tables,
- Driveway culvert design and data tables.
- Drainage Standard Details.

The Engineer shall prepare the following erosion control PS&E sheets:

- Storm Water Pollution Prevention Plan (SW3P) Sheet
- Temporary and Permanent Erosion Control Sheets

9.4 Bridge Design

The Engineer will design and detail structural plan sheets for three conventional highway creek crossing structures. Designs shall be accordance with the AASHTO LRFD Bridge Design Specifications except as modified by the Texas Department of Transportation's manuals and design recommendations. Design Live Load shall be HL-93.

9.4.1 Bridge at Smalley Branch:

The bridge is assumed to be a constant width multi-span cast-in-place concrete slab span structure that is 50 to 75 feet in length. The Engineer shall provide designs and plan sheets for the following:

- Bridge Layout
- Bridge Foundations
- Typical Section
- Table of Estimated Quantities
- Abutment Details
- Interior Bent Details
- Cast-in-place Concrete Span Details

9.4.2 Bridge at Dry Berry Creek:

The bridge is assumed to be a constant width multi-span prestressed concrete I beam structure that is approximately 400 feet in length. The Engineer shall provide designs and plan sheets for the following:

- Bridge Layout
- Bridge Foundations
- Typical Section
- Table of Estimated Quantities and Bearing Seat Elevations
- Abutment Details
- Interior Bent Details
- Prestressed Concrete Beam Unit Details

9.4.3 Bridge at Tributary to Dry Berry Creek:

The bridge is assumed to be a constant width skewed multi-span cast-in-place concrete slab span structure that is 50 to 75 feet in length. The Engineer shall provide designs and plan sheets for the following:

- Bridge Layout
- Bridge Foundations
- Typical Section
- Table of Estimated Quantities
- Abutment Details
- Interior Bent Details
- Cast-in-place Concrete Span Details

9.5 Signing, Marking, and Signalization

9.5.1 Signing and Pavement Marking Layouts (estimate 3 sheets for 6.2 miles)

Prepare abbreviated roadway layouts. Layouts will not show horizontal curvature of the roadway alignment, but will include centerline with station numbering. Proposed Layouts will include pavement markings, object markers, delineators, and proposed signs in accordance with TxDOT design standards, the Texas Manual on Uniform Traffic Control Devices (TxMUTCD), and Texas Department of Transportation Sign Crew Field Book.

9.5.2 Pavement Marking Details (estimate 3 sheets)

Prepare pavement marking details (1"=100') for proposed left turn lane construction and intersection striping at existing SH 195/Ronald Reagan Blvd. intersection and tie-in details to CR 237, CR 238 and CR 239.

9.5.3 Sign Details (estimate 2 sheets)

Provide sign details for non-standard signs identifying waterways crossed and directional signs to nearest towns and signs identifying cross streets.

9.5.4 Summary of Pavement Markings (estimate 1 sheet)

Compute quantities and summarize in the plans and prepare a bid item list and estimated prices for all pavement markings, markers, object markers and delineators.

9.5.5 Small Sign Summary (estimate 1 sheet)

Determine the mounting requirements for each sign or sign cluster based on TxDOT standards. List all the signs on the TxDOT Standard Summary sheets together with totals for each mount type.

9.5.6 Signal Layout – Existing SH 195 at Ronald Reagan Blvd (estimate 4 sheets)

Provide the design for the traffic signal required for the project. This work will include general notes and specification data sheet, existing conditions sheet, signal layout sheet, wiring diagrams, quantity summary tables, phasing diagrams and construction detail sheets. Illumination will be attached to the signal poles located at these intersections.

9.5.7 Assemble Applicable Standards (estimate 20 standards)

Identify and acquire all applicable TxDOT or Williamson County standards. Modify standards as needed. Plot sheets and incorporate into the plans.

9.5.8 Attend Meetings and Coordination Time

Attend up to three (3) meetings with the County.

9.6 Traffic Control

9.6.1 Traffic Control/Sequencing plans will be developed for the following locations.

- SH 95 Develop traffic control plans and signing plans for temporary pavement and permanent widening on both sides of the road, overlay, transitions, temporary drainage, striping, remove striping, barricades/barrels, advanced warning signs, etc.
- SH 95 to CR 195 New location. Only requires barricades and signing on each end, advanced warning signs.
- Along CR 195 Develop barricades and signing along roadway. Possible road closures and detours for tie-ins and overlay or reconstruction of CR 195.
- CR 195 to CR 157 New location. Only requires barricades and signing on each end, advanced warning signs.
- CR 157 Possible overlay or rebuild of existing roadway, probable road closure, detours required, advanced signing.
 - Develop typical sections (two for SH 95, two for CR 195, 2 for CR 157)
 - o Develop overlay design (SH 95, CR 195, CR 157)
 - o Develop advanced warning sign layouts (SH 95, CR 195, CR 157, IH 35 frontage)
 - Develop traffic control plans/construction phasing layout (3 Phases @ SH 95, 1 phase between SH 95 and CR 195, 1 phase at CR 195, 1 phase between SH 95 and CR 157, 1 phase at CR 157)
 - o Develop detour layouts (1 for closure of CR 195, 1 for closure of CR 175)

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Task 10 - Construction Phase Services

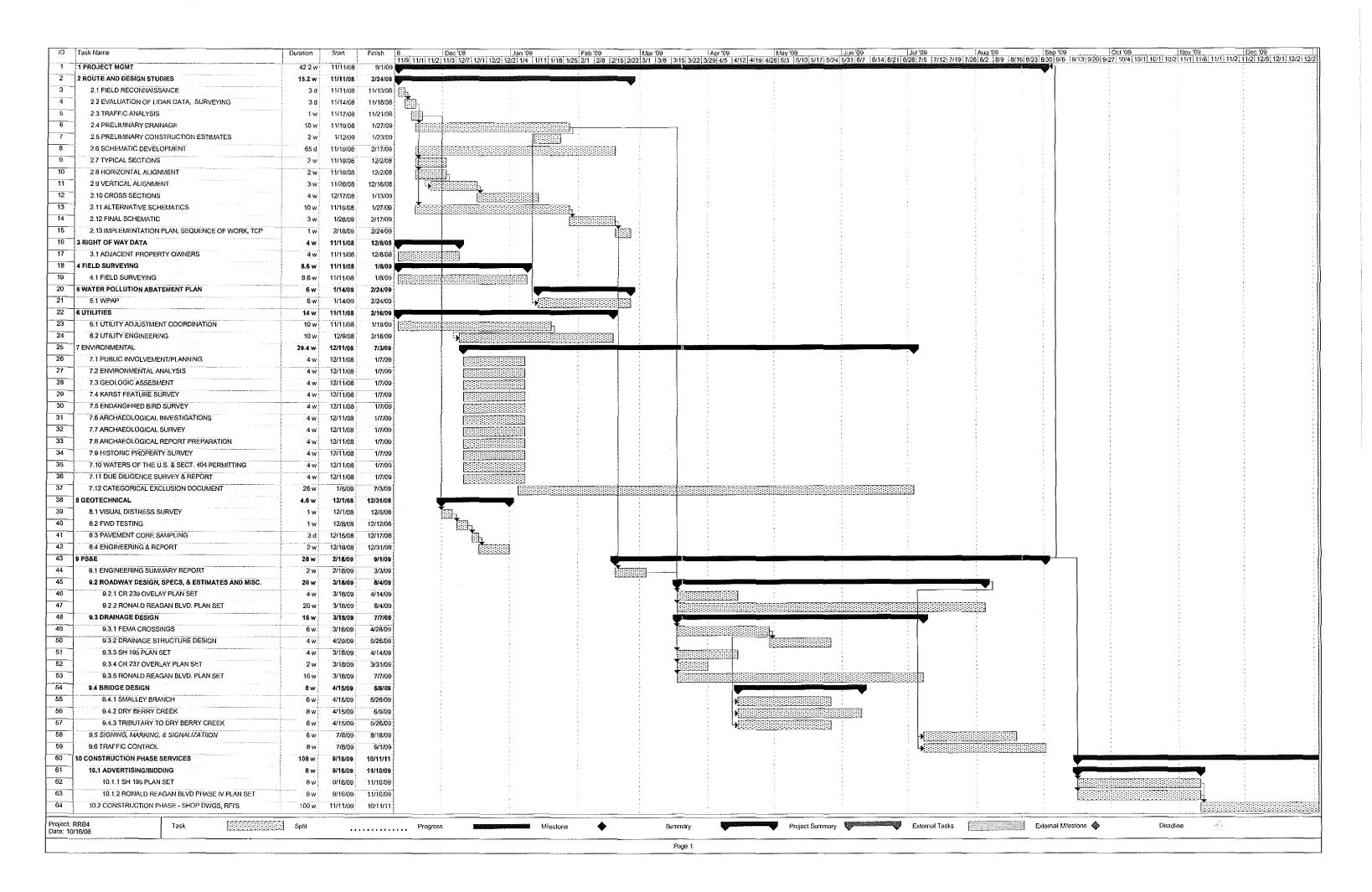
10.1 Advertising, Bidding Phase

The Engineer will:

- Assist the County with Contract advertisement for the Ronald Reagan Boulevard Phase
 including preparation of notice and arranging for placement of the advertisement in
 appropriate newspapers and other media as required. Fees for the advertising will be paid
 directly by the County and are not included within this Contract. It is assumed that SH 195
 bid process will not be needed because the work will be added as change order to the
 contractor currently awarded the Ronald Reagan Boulevard Phase III.
- Conduct a pre-bid conference.
- · Conduct the bid opening.
- Prepare the bid tabulation and provide the County with a recommendation of award.
- Assist the County in execution of the construction contract.
- Attend the preconstruction meeting.

10.2 Construction Phase – Shop Drawings, Requests for Information from Contractor The Engineer will review and approve structural shop drawings for bridge joints and prestressed concrete members.

The Engineer will be available to attend up to three meetings, answer questions, and address RFIs (up to 10) related to the design and construction of the roadway, bridges, and drainage. Services for additional RFI's will be added under a supplemental work authorization.



WILLIAMSON COUNTY

SUMMARY OF WORK AUTHORIZATION	
TCB Direct Labor	\$1,444,500.37
TCB ODC'S	\$15,726.00
SUB CONSULTANTS:	
FUGRO	\$26,290.00
CASTLEBERRY	\$265,997.00
AGUIRRE & FIELDS LP	\$42,305.76
SWCA	\$15,988.50
BERG OLIVER	\$64,439.00
ROGERS DESIGN SERVICES	\$124,585.72
Sub Total of Sub Consultants:	\$539,605.98
WORK AUTHORIZATION TOTAL	\$1,999,832.35

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TASK DESCRIPTION	Project Manager	Senior Engineer	Senior Project Engineer	Project Engineer	E.I.T.	Environmental Manager	Geologist	Environmental Specialist III	Engineering	Engineering	Engineering Tech	Admin	Total
TASK DESCRIPTION									Specialist	Tech	21222		
Task 1 - Project Management and Communication Plan	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
1.1 Meetings	_												
1,1.1 Kick-off Meeting (1)	4.0	2.0	2.0	8.0	6.0	4.0	4.0	4.0	2.0	2.0		2.0	40.0
1.1.2 Weekly Staff Meetings (19)	40.0	20.0	20.0	20.0		16.0			20.0			31.0	167.0
1.1.3 Email Updates		32.0											32.0
1.1.4 Schematic Concept /Criteria Determination Meetings (2)	16.0	8.0	5.0	16.0		5.0						8.0	58.0
1.1.5 Progress Meetings (16 Meetings) 1.1.6 Public Awareness Meeting (See Environmental Task)	32.0			80.0		16.0						32.0	160.0
1.1.7 Milestone Meetings (4)	32.0	16.0	16.0	16.0		16.0			16.0			16.0	128.0
1,1.8 Oversite Review Meetings (4)	32.0	16.0	16.0	16.0		16.0			16.0			16.0	128.0
SUB TO	TAL 156.0	94.0	59.0	156.0	6.0	73.0	4.0	4.0	54.0	2.0		105.0	713.0
1.2 QA/QC and Document Control							CHURCHON MEDICALIS		and the second		NAME OF STREET		149.0
1.2.1 Document Control 1.2.2 Detailed Check Review	1.0	8.0 40.0	100.0	100.0					40.0 20.0			100.0	264,0
1.2.3 Inter-Discipline Coordination Review	2.0	16.0	100,0	80.0	80.0				16.0				194.0
1.2.4 Detailed Plan Review (SCH, 60%, 90%, 100%)	4.0	48.0					Carried Land		160.0				212.0
1.2.5 Prepare Submittal County/GEC Oversight Review	2.0	8.0							16.0	4.0	32.0	32.0	94.0
1.2.6 Log Book Maintenance	2.0	12.0							220.0				234.0
1.3 Invoicing, Contract Document Coordination	TAL 15.0	132.0	100.0	180.0	80.0				472.0	4.0	32.0	132.0	1147.0
1.3 Invoicing, Contract Document Coordination 1.3.1 Prepare Monthly Invoices	4.0											16.0	20.0
1,3,2 Prepare Monthly Progress Reports	8.0							Commence of the Commence of th				16.0	24.0
SUB TO												32.0	44.0
1.4 Sub Consultant Management													
1.4.1 Fugro	12.0	4.0											16.0
1.4.2 SWCA 1.4.3 Berg Oliver	20.0					10.0							30.0
1.4.4 Aguirre & Fields LP	18.0					20.0							40.0
1.4.5 Castleberry	120.0												120.0
1.4.6 Rogers Design Services	60.0				-								60.0
SUB TO	AL 250.0	4.0				30.0							284.0
1.5 Project Schedule	managed and a									Spinish Annual II			
1.5.1 Prepare Initial Project Schedule 1.5.2 Prepare Monthly Project Schedule Updates	24.0 16.0												24.0
1.5.2 Prepare Monthly Project Schedule Opdates SUB TO	AL 40.0												40.0
TASK 2 - Route and Design Studies	70.0												40.0
2.1 Field Reconnaissance												Street Street Street	
2.1.1 Site Visits	8.0		8.0	20.0									36.0
2.1.2 Digital Video SUB TO	AL 8.0		8.0	8.0 28.0	8.0					4.0			20.0
2.2 Evaluation of LIDAR Data; Surveying	AL 8.0			20.0	3.0					4.0			36.0
2.2.1 Engineer to analyze ground data for verification	2.0	2.0	4.0	16.0	24.0								48.0
2.2.2 Evaluation Memorandum	2.0			8,0									10.0
SUB TO	AL 4.0	2.0	4.0	24.0	24.0								58.0
2.3 Traffic Analysis 2.3.1 Traffic Volumes	THE RESTRICTED IN	Descenting of the	alman talendari	1.0				Occupation of the Control of the Con				1.0	2.0
2.3.2 Operational Analysis				2.0	18,0				Learning to the last			1.0	20,0
2.3.3 Traffic Impact Analysis Memorandum		1.0		3.0	24.0							1.0	29.0
SUB TO	AL	1.0		6.0	42.0							2.0	51.0
2.4 Preliminary Drainage													
2.4.1 Delineate Drainage Areas 2.4.2 Determine Flow Path & Time of Concentration	2.0			30.0 28.0						1.0	8,0		40.0 30.0
2.4.2 Determine Flow Path & Time of Concentration 2.4.3 Calculate 25-year and 100-year Peak Flow	4.0			40.0									44.0
2.4.4 Develop HEC-RAS models for 3 Stream Crossings	20.0			180.0	200.0								400.0
2.4.5 Develop THYSYS Culvert Models for 5 Crossings	6,0			60.0									66.0
2.4.6 Calculate ditch conveyance & shear stress	8.0			80.0	1								88.0
2.4.7 Outfall analysis to determine ROW requirements	8.0			64.0									72.0
2.4.8 Preliminary TSS Calculations 2.4.9 Hydraulic Summary (Max. 5 Pages)	12.0			60.0 32.0						2.0	16.0		72.0 60.0
2.4.9 Hydraulic Summary (Max. 5 Pages) SUB TO			-	574.0	200.0				-	3.0	24.0		872.0
2.5 Preliminary Construction Estimates	al-minimum de mai	diameter designation of				Sulfrential season	Train and the Parkers	The character					
2.5.1 Prepare Prel. Construction Estimate for Alt 1	1.0	1.0		4.0	4.0					1.0	4.0		15.0
2.5.2 Prepare Prel. Construction Estimate for Alt 2	1.0	1.0		4.0	4.0					1.0	4.0		15.0
2.5.5 Prepare Prel. Construction Estimate for Interim Project 1	1.0	1.0		4.0	4.0					1.0	4.0		15.0
2.5.6 Prepare Prel, Construction Estimate for Interim Project 2 SUB TO		4.0		16.0	16.0					4.0	16.0		15.0
2.6 Schematic Development													
2.6.1 Incorporate Work By Others	2.0			4.0	8.0					2.0	12.0		28.0
SUB TO	'AL 2.0			4.0	8.0					2.0	12.0		28.0
2.7 Typical Sections													8.0
2.7.1 Prepare Existing Typical Section for CR 237	1,0			2.0						1.0	4.0		8.0
	1.0								$\overline{}$	1,0	4.0		8.0
2.7.2 Prepare Proposed Typical Section for CR 237 2.7.3 Prepare Existing Typical Section for CR 239	1.0		1	2.0				- C - A		1.0	4,0	` .	
2.7.3 Prepare Proposed Typical Section for CR 239 2.7.4 Prepare Existing Typical Section for CR 239 2.7.4 Prepare Proposed Typical Section for CR 239	1.0			2.0						1.0	4.0		8.0

Part						CALL DE LINE SO	- Inch. in Land.								
1.5 1.5	TASK DESCRIPTION						E.I.T.		Geologist		Engineering	Engineering		Admin	Total
1.5 1.5			HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	Hours	HOURS
2.2.1 Purpose name Proposition to 1996 2.2 1.5 1.5 1.2															
2.2															
April Control Agreement Control Agreemen															
1.5 1.5	2.7.8 Prepare Unimate Typical Section for RRB4	SUB TOTAL													
2.1 Develop November No. P. 10 1.2	2.8 Horizontal Alignment	OUD TOTAL	10.0			20.0			ALL PROPERTY OF THE PARTY OF			0,0	40,0		90,0
2.25 Dones Neuroles Agreement for 62 28 1.5 2.			1.0			4.0	2.0								7.0
2.25 Control Principle of Agreement (Control Principle of Agreement (Control Principle of Agreement (Control Principle of Agreement (Control A			1.0			2.0	2.0								5.0
2.2.5 Dones became algorisms for IRIGA 41															
2-3															
Section Sect															
Decided Adoptionary Company Co	2.6.6 Develop Horizontali Alignmenis for RRB4 Ali 2	SUB TOTAL													
2-20 Devices Vertica Approves to CE 1936 1-2 4-2 2-26	2.9 Vertical Alignment	000 101111													
2-31 Covering worked Algorithment to GD 204 2-32 Covering work Algorithment of CD 204 2-32 Covering work Algorithment of CD 204 Covering work Algorithment of C			1.0			4.0	2.0								7.0
2-22 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2															5.0
2-22 Concess from Agan, a Balance (SV PREMA AT 20 22 22 10.0 10.0 10.0 10.0 10.0 10.0															
2-10 [Secretary servine Algories be absorbed (Very Professor A.P.)															
Contractions															
2-10	2.9.0 Develop vert Allylis o billings Evv for RRD4 All 2	SUB TOTAL													
2-20 Develop Series Face From Sections Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Series Face From Sections (CF 22) (10) 2-10 Develop Sections (CF 22) (10) 2-1	2.10 Cross Sections													THE RESERVE	
2.13 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.13 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.13 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.14 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.17 Devote Advancate Cost Sections for CR2 (2010) 2.18 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.19 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.11 Devote Advancate Cost Sections for CR2 (2010) 2.11 Devote Advancate Cost Sections for CR2 (2010) 2.12 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.13 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.14 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Prog. Cost Sections for CR2 (2010) 2.15 Devote Earl of Cr2 (
2.10		and the same									NAME OF TAXABLE PARTY.				
2-11.0 Devolop Eard & Progress Section for RRNA de 2 (190) 2-11.1 Devolop Johnson of Science (190) 2-12.1 Devolop Tail Control of Tail Cont															
2-12 Develop Creat & Profest Content for RNAS 42 (109) 1.5 4.0 1.72														- 4	
2-11	2, 10,0 Develop Exist & Prop Gross Sections for RROW All 2 (100)	SUB TOTAL													
2.12	2.11 Alternative Schematics			eis lo usio	(m) N										
SUBSTOTAL 32	2.11.1 Develop Alternative 1 Schematic		16.0	16.0		80.0						4.0	40.0		156.0
2.12 Great Schemanter 2.12 Control Schematic 2.12 Control Schemat	2.11.2 Develop Alternative 2 Schematic														
2.12 [Develop a Decision Marine 2.12 [Develop a Decision Marine 2.12 [Develop and Encenter Chamater for Approval 2.12 [Develop find Encenteric Chamater for Approval 2.12 [Develop find Encenteric Chamater for Approval 2.13 [Develop Construction See of Work & TCP 2.11 [Develop Construction See of Work & TCP 2.12 [Develop Construction See of Work & TCP 2.13 [Develop Construction See of Work & TCP 2.14 [Develop Construction See of Work & TCP 2.15 [Develop Construction See of Work & TCP 2.16 [Develop Construction See of Work & TCP 2.17 [Develop Construction See of Work & TCP 2.18 [Develop Construction See of Work & TCP 2.19 [Develop Construction See of Work & TCP 2.10 [Develop Construction See of Work & TCP 2.10 [Develop Construction See of Work & TCP 2.11 [Develop Construction See of Work & TCP 2.12 [Develop Construction See of Work & TCP 2.13 [Develop Construction See of Work & TCP 2.14 [Develop Construction See of Work & TCP 2.15 [Develop Construction See of Work & TCP 2.16 [Develop Construction See of Work & TCP 2.17 [Develop Construction Se		SUB TOTAL	32.0	32.0		160.0						8.0	80.0		312.0
2.12 Develop that Generate Schematic for Approval 8.0 8.0 4.0 4.0 4.0 1.0			8.0	8.0		32.0						4.0	120		94.0
2.12 Update Comments Schematic S							40.0								
2.13.1 [Orego Controllection See of Work & TCP															
2.13.1		SUB TOTAL	17.0	17.0		76.0	44.0					8.5	76.0		238.5
2,132 Develop Sing of Way Defa SUB TOTAL 2.0 9.0 3.5 28.0 42.5													يرود ويستوسي		
TASK 3 - Right of Way Data 3.5 28.0 42.5															
TASK 3 - Right of Way Date SEE CASTLEBERRY TAB TASK 3 - Plated Surveying	2.13.2 Develop Seq of Work & TCP Estimate	SUID TOTAL													
SEE CASTLEBERRY TAB	TASK 3 - Right of Way Data	SOB TOTAL	2.0		9.0							3.3	20.0		42.5
### TASK 4 - Floid Surveying Floid Surveying															
## Field Surveying ## TASK 5 - Water Pollution Abetament Plan 5.1 Mark Pollution Abetament Plan															
SEC ASTLEBERRY TAB TASK 5 - Water Pollution Abstement Plan															
TASK 5 - Wister Pollution Abatement Plan															
S.1 Water Pollution Abatement Plan															
S.1.1 Data Collection, Limits of project within EAR2 1.0 1.0 4.0 1.0 4.0 1.0 5.1.2 5.1.2 Frequent WPAP 20.0 24.0 48.0 5.0 48.0 148.0 5.1.3 Final TSS Calcis/Design Filtration BMP's 24.0 32.0 30.0 13.0 76.0 323.0											ETCS/ADAM POPOLOGICA				
S.1.2 Prepare WPAP 20.0 24.0 48.0 148.0			1.0			1.0	4.0			T		1.0	4.0		11.0
S.1.3 Final TSS Cales/Design Filtration BMP's 24.0 164.0 164.0 32.0	5.1.2 Prepare WPAP								FIRST SALES						
Content Cont	5.1.3 Final TSS Calcs/Design Filtration BMP's														164.0
6.1 Unlity Adjustment Coordination 6.1.1 Work Plan 6.1.2 Offentation 6.1.3 Initial (Kick-Off) Project Meeting 6.1.4 Coordination of Utility Data 6.1.5 Unlity Tracking Report 6.1.6 Preliminary Design Package 7.0 8.0 8.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9		SUB TOTAL	45.0			57.0	132.0					13.0	76.0		323.0
6.1.1 Work Plan				THE RESIDENCE AND DESCRIPTION OF THE PERSON	DEFECTOR STREET	- CONTRACTOR OF THE CONTRACTOR									
6.1.2 Cinentation 16.0						12.0								20	14.0
6.1.3 Initial (Kick-Off) Project Meeting 8.0 16.0 4.0 2.0 30.0 6.1.4 Coordination of Utility Data 16.0 15.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0			16.0								The second second	-			
6.1.4 Coordination of Utility Tacking Report 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.1 16.0							4.0								
6.1.5 Utility Tracking Report 6.1.6 Preliminary Design Package 8.0 8.0 8.0 11.0 159.0 6.2.1 Utility Engineering 6.2.1 Existing Utility Layout 6.2.1.1 Map Existing Utility Layout 6.2.1.2 Prepare Draft Existing Utility Layout 6.2.1.3 Prepare Final Existing Utility Layout 6.2.1 Prepare Draft Existing Utility Layout 6.2.2 Potential Conflict Location Datasheet 6.2.3 Public, initial Project Notification & Meetings w/Utilities 6.2.3 Establish & Promote Desired Agenda & Methodoligies 8.0 8.0 8.0 14.0 8.0 8.0 8.0 14.0 8.0 8.0 14.0 8.0 8.0 14.0 8.0 8.0 14.0 8.0 8.0 14.0 8.0 8.0 14.0 8.0 8.0 14.0								THE RESERVE				-			
SUB TOTAL 24.0 88.0 36.0 11.0 159.0															28.0
6.2.1 Utility Engineering 6.2.1 Existing Utility Layout 6.2.1.1 Map Existing Utility Layout 6.2.1.2 Propare Draft Existing Utility Layout 6.2.1.3 Propare Final Existing Utility Layout 6.2.2 Potential Conflict Location Datasheot 6.2.3 Public, initial Project Notification & Meetings w/Utilities 6.2.3 Public, initial Project Notification & Meetings w/Utilities 6.2.3 Establish Confact 6.2.3 Establish & Promote Desired Agenda & Methodoligies 7.0 Meetings w/Utilities 8.0 M	6.1.6 Preliminary Design Package														
6.2.1 Existing Utility Layout 6.2.1.1 Map Existing Utilities 1.0 16.0 40.0 57.0 6.2.1.2 Prepare Oral Existing Utility Layout 4.0 12.0 16.0 8.0 40.0 8.0 40.0 6.2.13 Prepare Final Existing Utility Layout 5.0 20.0 40.0 8.0 40.0 6.2.3 Potential Conflict Location Datasheet 5.0 20.0 40.0 6.2.3 Public, Initial Project Notification & Meetings w/Utilities 6.2.3 Establish Confact 2.0 2.0 2.0 5.0 4.0 6.2.3 Establish Confact 2.0 8.0 4.0 6.2.3 Establish Promote Desired Agenda 8.0 14.0 6.2.3 Establish Promote Desired Agenda & Methodoligies 2.0 8.0 8.0 14.0 6.2.3 On-Site Inspection 8.0 8.0 14.0 6.2.3 14.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	C.2. UMIllay Facility and C.	SUB TOTAL	24.0			88.0	36.0		Secretaria					11.0	159.0
6.2.1.1 Map Existing Utilities 1.0 16.0 40.0 5.2.1.2 Prepare Draft Existing Utility Layout 4.0 12.0 16.0 5.2.1.2 Prepare Final Existing Utility Layout 5.0 12.0 16.0 5.2.1.2 Prepare Final Existing Utility Layout 5.0 5.2.1.2 Prepare Final Existing Utility Layout 5.0 5.2.2 Potential Conflict Location Datasheet 5.0 20.0 40.0 5.2.3 Public, Initial Project Notification & Meetings w/Utilities 5.2.1 Establish Confact 5.2.2 Set Agenda 5.2.3 Establish & Promote Desired Agenda & Methodoligies 5.0 5.2.3 Establish & Promote Desired Agenda & Methodoligies 5.0 5.0 5.2.3 Consiste Inspection 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0			m mail in the call the state												
6.2.1.2 Prepare Draft Existing Utility Layout 4.0 12.0 16.0 8.0 40.0 80.0 6.2.1.3 Prepare Final Existing Utility Layout 9.0 8.0 40.0 8.0 6.2.3 Protectial Conflict Location Datashoot 5.0 20.0 40.0 8.0 6.2.3 Protectial Conflict Indication & Meetings w/Utilities 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0			1.0			16.0	40.0					-			57.0
6.2.13 Prepare Final Existing Utility Layout 6.2.2 Potential Conflict Location Datashed 5.0 20.0 40.0 65.0 6.2.3 Public, Initial Project Notification & Meetings w/Utilities 6.2.3.1 Establish Contact 2.0 2.0 5.0 4.0 6.2.3.2 Set Agenda 2.0 4.0 6.2.3.3 Establish & Promote Desired Agenda & Methodoligies 2.0 4.0 6.2.3.4 On-Site Inspection 8.0 8.0 14.0 6.2.3.4 On-Site Inspection 8.0 8.0 15.0												8.0	40.0		
6.2.2 Potential Conflict Location Datasheet 5.0 20.0 40.0 56.0 6.2.3 Public, Initial Project Notification & Meetings w/Utilities 5.2.1 Establish Contact 5.0 2.0 2.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5															RYF
6.2.3.1 Establish Contact 2.0 2.0 4.0 6.2.3.2 Set Agenda 2.0 4.0 8.0 14.0 6.2.3.3 Establish & Promote Desired Agenda & Methodoligies 2.0 4.0 8.0 14.0 6.2.3.4 On-Site Inspection 8.0 8.0 16.0	6.2.2 Potential Conflict Location Datasheet		5.0			20.0	40.0								65.0
6.2.3.2 Set Agenda 2.0 4.0 8.0 14.0 6.2.3.3 Establish & Promote Desired Agenda & Methodoligies 2.0 4.0 8.0 14.0 6.2.3.4 On-Site Inspection 8.0 8.0 16.0				200											II, to the second
6.2.3.3 Establish & Promote Desired Agenda & Methodoligies 2.0 4.0 8.0 14.0 6.2.3.4 On-Site Inspection 8.0 8.0 15.0							2.0								
6.2.3.4 On-Site Inspection 8.0 8.0 16.0							Name - Control								
			2,0				9.0							8.0	
100 100 200			16.0											16.0	
			15/7												

the same of the sa	Project	Senior	Senior Project	Project	0.0	Environmental		Environmental	Senior	Senior	Engineering		
TASK DESCRIPTION	Manager	Engineer	Engineer	Engineer	E.I.T.	Manager	Geologist	Specialist III	Engineering	Engineering	Tech	Admin	Total
	House	1101100			House	1101100		Union	Specialist	Tech			
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	Hours	HOURS	HOURS	HOURS
6.2.5 Review of Utility's Proposed Adjustments					27.7								
6.2.5.1 Evaluate Alternatives	10.0			16.0	24.0								50.0
6.2.5.2 Review Schedules	4,0			8.0	16.0								28.0
6.2.5.3 Review Plans for Compliance				16.0	42.0								62.0
6.2.5.4 Review Traffic Control Plans	12.0			24.0 4.0	8.0								44.0
Subsurface Utility Engineering (SUE) Work Plan				4.0	0.0								12.0
6.2.8 Utility Perform QA/QC of Utility Layout	4.0			12.0	24.0								40.0
6.2.9 Submittal to the County	4.0			2.0	24.0							4.0	10.0
6.2.10 Utility Coordination Meetings	20.0			40.0	40.0							20.0	120.0
SUB TOTAL	88.0		_	220.0	300.0					8.0	40.0	56.0	712.0
TASK 7 - Environmental	00.0			22.0.0	000.0	-				0.0	40.0	50.0	712.0
7.1 Public Awareness Meeting										Spirite Street Colonia			
7.1.1 Gather Existing Environmental Information			T					12.0					12.0
7.1.2 Preliminary Site Visit						8.0	8.0	8.0			A THE PARTY NAMED IN		24.0
7.1.3 Coordinate with Project Engineers and Subs						16.0		16.0					32.0
7.1.4 Prepare GIS Database								12,0					12.0
7.1.5 Prepare Graphics, Handouts and Schedule for Public Meeting						8.0		32.0					40.0
7.1.6 Hold Public Meeting	6.0					6.0		6.0					18.0
7.1.7 Prepare Meeting Summary						4.0		24.0					28.0
SUB TOTAL	6.0					42.0	8.0	110.0					166.0
7.2 Environmental Analysis							بالأرب بالكامين الحر				Meanward - Inchia		
7.2.1 Prepare Environmental Workplan and Schedule						14.0	6.0	16.0					36.0
7.2.2 Prepare a Summary for each Environmental task						8.0	14.0	24.0					46.0
SUB TOTAL						22.0	20.0	40.0					82.0
7.3 Geologic Assesment		The substitute of the substitu	بالباجيا إكبابي	فالدكالة بمسالة									
7.3.1 Field Work for GA							30.0	24.0					54.0
7.3.2 GIS/CADD Mapping								16.0					16.0
7.3.3 Prepare GA Report						2.0	48.0						50.0
SUB TOTAL						2.0	78.0	40.0					120.0
7.4 Karast Feature Survey													
7.4.1 Field Work							40.0	40.0					80.0
7.4.2 GIS/CADD Mapping							4.0	16.0					20.0
7.4.3 Prepare USFWS Report						2.0	40.0	10.0					42.0
SUB TOTAL						2.0	84.0	56.0	000000000000000000000000000000000000000				142.0
7.5 Endangered Bird Species Survey (subcontract)													
SEE BERG OLIVER TAB 7.5-7.7 Archeological Investigations		000000000000000000000000000000000000000	acidacelore and executions				Unnesteel with control of the		Management and the second seco	And the control of th			
SEE SWCA TAB											r		
7.8 Historical Property Survey	MARKATAN AND AND AND AND AND AND AND AND AND A					MRORPH SCALINGS COMMON TANDACT			normal management of the second	Deminos Ameninos Con			
SEE SWCA TAB													
7.9 Waters of the US/Section 404 Permit	CPSCULTSCULTSCOWN			CASCING TOWNS OF THE OWN				CONTRACTOR					
SEE BERG OLIVER TAB	to transmission of the form of the form	Sample Sample Softening									r		
7.10 Due Diligence													
Prepare Due Diligence Report						2.0	80.0	20.0		T		16.0	118.0
SUB TOTAL						2.0	80.0	20.0				16.0	118.0
7.11 Categorical Exclusion Document	Marking Committee												
7.11.1 Coordinate with TxDOT on format, content and Schedule			T			4.0		16.0		T			20.0
7.11.2 Coordinate with Project Engineer on Design and Alignment						2.0		16.0					18.0
7.11.3 Prepare and Submit TxDOT Standards of Uniformity documents						8.0	8.0	48.0					64.0
7,11.4 Prepare Draft CE Document						24.0	24.0	120.0				No. of Concession, Name of Street, or other	168.0
7.11.5 Prepare Draft (ver2) CE Document						8.0	16.0	40.0					64.0
7.11.6 Prepare Final CE Document	Ext.					8.0	8.0	48.0					64.0
SUB TOTAL						54.0	56.0	288.0					398.0
TASK 8 - Geotechnical													
8.1 Pavement Design					the positive,								
SEE FUGRO TAB													
TASK 9 - PS&E													
9.1 Engineering Summary Report									A DE LES			Section 1	
9.1.1 Develop draft Engineering Summary Report	8.0	24.0		32.0						1.0	8.0		73.0
9.1.2 Print, Copy, Bind, and Submit 10 Copies of Draft Report	1.0									1.0	8.0	7.0	17.0
9.1.3 Update Engineering Summary Report	2.0	8.0		8.0						0.5	4.0		22.5
9.1.4 Print, Copy, Bind, and Submit 10 Copies of Final Report	1.0									1.0	8.0	7.0	17.0
SUB TOTAL	12.0	32.0		40.0						3.5	28.0	14.0	129.5
9.2 Roadway Design, Specifications, and Estimates & Misc.													
9.2.1 CR 239 Overlay Plan Set	0.6										100		20.6
9.2.1.1 Title Sheet	0.5			2.0						2.0	16.0		20.5
9.2.1.2 Index of Sheets	0.5			1.0	0.0					1.0	0.0		10.5
9,2.1.3 Estimate & Quantity Sheet	0.5		0.0	1.0	8.0				10.0	1.0	10.0		20.5
9.2.1.4 Develop General Notes	0.5		6.0	24.5	40.0				16.0				22.5
9.2.1.5 CR 239 Overlay Plan (no profiles so double bank) 9.2.1.6 Develop a list of Specifications (& update the estimate)	1.0	2.0	6.0	24.0	40.0					1.0	8.0		66.0 18.0
9.2.1.7 Develop a list of Specifications (& update the estimate) 9.2.1.7 Develop a DVD containing all electronic PS&E files	1.0	2.0	0.0							1.0	8.0		9.0
9.2.1.7 Develop a DVD containing all electronic PS&E files 9.2.1.8 Plot 3 paper sets of 60% complete PS&E & submit	2.0				4.0					1.0	0.0		6.0
a.z. r.oj Piot a paper sota di dove complete Page & submit	2.0				4.0			1					0.0

	Project	Senior	Senior Project	Project		Environmental	District Control	Environmental	Senior	Senior	Formation		California
TASK DESCRIPTION	Manager	Engineer	Engineer	Engineer	E.I.T.	Manager	Geologist	Specialist III	Engineering Specialist	Engineering Tech	Engineering Tech	Admin	Total
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
9.2,1,9 Update PS&E per 60% comments	2.0	1.0	1.0	8.0	4.0					0,5	4.0		20.5
9.2.1.10 Plot 3 paper sets of 90% complete PS&E & submit 9.2.1.11 Update PS&E per 90% comments	2.0	1.0	1.0	8.0	8.0 4.0					0.5	4,0		10.0
9.2.1.12 Download latest standards, plot & incorporate into PS&E	0.5	0.5	0.5	6.0	4.0					0,5	4,0		7.5
9.2.1.13 Plot 5 paper & 1 mylar set of 100% complete PS&E & submit	4.0				16,0			Marie Control of the				2.0	22.0
SUB TOTAL	17.5	4.5	14.5	50.0	84.0				16.0	7.0	58.0	2.0	253.5
9.2.2 RRB4 Plan Set													
9.2.2.1 Title Sheet 9.2.2.2 Index of Sheets	1.0			6.0						2.0	16.0 12.0		25.0 21.0
9.2.2.3 Estimate & Quantity Sheet	4.0			16.0	36.0					16.0	36.0		108,0
9,2.2.4 Environmental Permits, Issues & Commitments Sht	2.0					4.0		12.0		1.0	8.0		27.0
9.2.2.5 Develop General Notes	1.0	4.0	12,0						32.0				49.0
9.2.2.6 Project Layout Sheets (Double banked @ 1" = 200") 9.2.2.7 Typical Section Sheets (Include pavement design)	6.0 3.0			28.0 12.0	140.0					14.0	140.0 24.0		328.0 47.0
9.2.2.8 Finalize the Earthwork	3.0			16.0	16.0					8,0	24.0		32.0
9.2.2.9 Earthwork Summary Sheet										8.0	16.0		24.0
9.2.2.10 RRB4 Rdwy/Dmg P&P (@ 1"=100' H & 1"=10' V) (27 shts)	24.0	32.0	1.0	400.0	236.0					32.0	280.0		1005.0
9.2.2.11 Design Cross Section Sheets for RRB4					160.0								160.0
9.2.2.12 Design Cross Section Sheets for CR 238 9.2.2.13 RRB4 / CR 238 Intersection Layout	2.0			12.0	8.0 12.0								8.0 26.0
9,2,2,14 Miscellaneous Roadway Details Sheets	2.0		4.0	8.0				THE PARTY NAMED		2.0	12.0	THE RESERVE	28.0
9.2.2.15 Driveway plan and profiles (2 driveways/sheet)			8.0	28.0	64.0					0.8	64.0		172.0
9.2.2.16 Develop a list of Specifications (& update the estimate)	1.0	4.0	6.0						8.0	1.0	9.5		19.0
9.2.2.17 Develop a DVD containing all electronic PS&E files 9.2.2.18 Plot 3 paper sets of 60% complete PS&E & submit	2.0			-	8.0					1.0	8.0	3.0	9.0
9.2.2.19 Update PS&E per 60% comments	2.0	1.0	1.0	8.0	4.0					1.0	4.0	5.0	21.0
9.2.2.20 Plot 3 paper sets of 90% complete PS&E & submit	2.0				8.0							3.0	13.0
9.2.2.21 Update PS&E per 90% comments	2.0	1.0	1.0	8.0	4.0					1.0	4.0		21.0
9.2.2.22 Download latest standards, plot & incorporate into PS&E 9.2.2.23 Plot 5 paper & 1 mylar set of 100% complete PS&E & submit	6.0	1.0	2.0	16.0	16.0							3.0	20.0
SUB TOTAL		43.0	35.0	562.0	712.0	4.0		12.0	40.0	98.0	624.0	9.0	2201.0
9.3 Drainage Design													
9.3.1 FEMA Crossings													
9.3.1.1 Coordinate w/Floodplain Administrator 9.3.1.2 Update HEC-RAS models	1.0		1.0 8.0	2.0 16.0	2.0 80.0								6.0
9.3.1.3 Produce 1 Report for 3 FEMA Bridge Crossings	1.0		8.0	16.0	80.0								105.0
9.3.1.4 Creek Mititgation Design & Sheets	1.0		12.0	12.0	64.0					6.0	80.0		175.0
9.3.1.5 Perform Scour Analysis for 3 Bridge Crossings	1.0		8.0	24.0	40.0								73,0
9.3.2 Drainage Structure Design 9.3.2.1 Finalize Cross-Culvert Hydrology & Hydraulics			4.0	20.0	60.0								84.0
9.3.2.2 Compute Pvmt Runoff, Design Ditches & Driveway Culverts			8.0	16.0	80.0								104.0
9.3.2.3 PS&E Drainage Sheets				-				STATE OF STATE				A STATE OF	104.0
9.3.3 SH 195 Plan Set													
9.3.3.1 Roadway Drainage Area Layout Sheets 9.3.3.2 Ditch Design & Data Tables	0.5		1.0	6.0 8.0	20.0					2.5	24.0		54,0 47,5
9.3.3.2 Dirch Design & Data Tables 9.3.3.3 Driveway Culvert Design & Data Tables	0.5		1.0	2.0	16.0					1.0	12.0		24.5
9.3.3.4 Drainage Design Standards			1.0	2.0	6.0					1.0	4.0		14.0
9.3.3.5 SW3P Sheet			0.5	2.0	2.0	THE WHAT				1.0	2.0		7,5
9.3,3.6 Temporary & Permanent Erosion Control Sheets			2.0	20.0	32.0					2.5	24.0		80.5
9.3.4.1 SW3P Sheet			0.5	2.0	2.0					1.0	2.0		7,5
9.3.4.2 Temporary & Permanent Erosion Control Sheets	- A-21		2.0	16.0	24.0	EAST-CASE				2.0	16.0		60.0
9.3.5 CR 239 Overlay Plan Set													
9.3.5.1 SW3P Sheet 9.3.5.2 Temporary & Permanent Erosion Control Sheets	- 26,3		2.0	32.0	2.0 48.0					1.0	2.0 32.0		7.5
9.3.5.2 Temporary & Permanent Erosion Control Sheets 9.3.6 RR84 Plan Set			2.0	32.0	48.0					4.0	32.0		118.0
9.3.6.1 Bridge Drainage Area Map & Hydrologic Data Sheet	0.5		2.0	1.0	2.0					2.0	8.0		15.5
9.3.6.2 Bridge Hydraulic Data Sheet	1.0		4.0	4.0	6.0					1.0	12.0	- 10	28.0
9.3.6.3 Cross-Culvert & Roadway Drainage Area Layout Sheets 9.3.6.4 Culvert Plan & Profile Sheets for 5 culverts	1.0		4.0	20.0	56.0					12.0	112.0		205.0
9.3.6.4 Culvert Plan & Profile Sheets for 5 culverts 9.3.6.5 Ditch Design & Data Tables	1.0		2.0 4.0	10.0	20.0					8.0	80.0 32.0		120.5 149.0
9.3.6.6 Driveway Culvert Design & Data Tables			1.0	12.0	48.0					1.0	8.0		70.0
9.3.6.7 Drainage Design Standards			1.0	2.0	6.0					1.0	8.0		18.0
9.3.6.8 SW3P Sheet			0.5	2.0	2.0					1.0	2.0		7,5
9.3.6.9 Temporary & Permanent Erosion Control Sheets SUB TOTAL	10.5		12.0 92.0	48.0 321.0	160.0 962.0					12.0 69.0	120.0 584.0		352.0 2038.5
9.4 Bridge Design	10.5		92.0	321,0	902.0				I A III A JII A JIII A JII A J	09,0	304.0		2038.3
9.4.1 Bridge at Smalley Branch													
9.4.1.1 Bridge Layout	2.0	8.0		4.0						20.0		2.0	36.0
9.4.1.2 Table of Estimated Quantities 9.4.1.3 Abutment Details		12.0		12.0						12.0			26.0
9.4.1.4 Interior Bent Details		8.0		12.0		-				32.0 24.0			64.0 44.0
9.4.1.5 Cast-in-place Conc Span Details		8.0		12.0				The second second		16.0			36.0
9.4.1.6 Bridge geometry		12.0		12.0									24.0

TASK DESCRIPTION	Project Manager	Senior Engineer	Senior Project Engineer	Project Engineer	E.I.T.	Environmental Manager	Geologist	Environmental Specialist III	Senior Engineering Specialist	Senior Engineering Tech	Engineering Tech	Admin	Tota
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOUR
9.4.2 Bridge at Dry Berry Creek								The second name of	The same of the sa				1000
9.4.2.1 Bridge Layout	2.0	8.0		16.0						24.0		2.0	52.
9,4,2.2 Table of Est Quant and Brg Seat Elevs		2.0		10.0						16.0			28
9.4.2.3 Abutment Details		6.0		20.0						32.0			58.
9.4.2.4 Interior Bent Details		8.0		12.0			The same of the last of the la			24.0			44
9.4.2.5 2 Prestr Conc Beam Unit Units		8.0		16.0						48.0			72
9,4,2,6 Framing/RDS		12.0		16.0									28
9.4.2.7 Modify Standards		8.0		20.0						16.0			44
9.4.3 Bridge at Tributary to Dry Berry Creek:					A TANKS OF REAL PROPERTY.								115
9.4.3.1 Bridge Layout	2.0	8.0		4.0						20.0		2.0	36
9.4.3.2 Table of Estimated Quantities		2.0		12.0						12.0	The same of the same of		26
9.4.3.3 Abutment Details		12.0		20.0						32.0			64
9.4.3.4 Interior Bent Details		8.0		12.0						24.0		-	44
9.4.3.5 Cast-in-place Conc Span Details		8.0		12.0						16.0			36
9.4.3.6 Bridge geometry	1000	12.0		12.0			STATE OF THE PARTY.		No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa				24
SUB TOTAL	6.0	152.0		254.0						368.0		6.0	786
0.5 Signing, Marking & Signalization								Skilling of the light state					SA DUE NO
SEE Aquirre & Fields TAB			T										T
0.6 Traffic Control	Charles and the	AND RESIDENCE OF THE PARTY OF T		Low Miles and Lower Co.		CONTRACTOR STATE	100	and the second second		A CARLO SERVICE SERVIC	and the second second second	and the land	A Parlament
9.6.2 Develop TCP/Seq of Work/Signing - SH 195 to CR 239 (1 phase)			3.0	12.0						10.0	96.0		121
9.6.3 Develop TCP/Seq of Work/Signing - Along CR 239 (1 to 3 phase)	11.0	11,0	20.0	80.0						10.0	96.0		228
9.6.4 Develop TCP/Seq of Work/Signing - CR 239 to CR 237 (1 phase)			5.0	20.0						10.0	96.0		131
SUB TOTAL	11.0	11.0	28.0	112.0						30.0	288.0		480
TASK 10 - Construction Phase Services			2.0.0	1,1210							20010		1 40.
0.1 Advertising & Bidding Phase	The Section of the Se	mentance of the	men marter from	and the state of				The residence of the				and the latest and the	41
10.1.1 SH 195 Plan Set													
10.1.1.1 No Bid Process								T					
SUB TOTAL													-
10.1.2 Ronald Reagan Boulevard Phase IV Plan Set	THE PERSON NAMED IN		Personal Construction of the	Ten Sentimento	manufacture of the same								the limit rise
10.1.2.1 Advertisement	1.0			2.0	2.0			T		6.0	12.0	4.0	27
10.1.2.2 Conduct Pre-Bid Meeting	1.0			4.0	2.0					6.0	12.0	2.0	27
10.1.2.3 Conduct Bid Opening	1.0			2.0	2.10					6.0	12.0	2.0	23
10.1.2.4 Prepare Bid Tabulations & Recommend Award	1.0			2.0	4.0					6.0	12.0	4.0	29
10.1.2.5 Execute Construction Contract	1.0			4.0	4.0					6.0	12.0	6.0	33
10.1.2.6 Attend Pre-Construction Meeting	2.0	The State of the S		2.0	2.0					0.0	12.0	2.0	8.
SUB TOTAL	7.0			16.0	14.0					30.0	60.0	20.0	14
0.2 Construction Phase - Shop Drawings, RFI's				10.0	1,4,5					00.0	00,0	20,0	14
10.2.1 Review Shop Drawings			T					T					
10.2.1.1 Prestr Beams and Bridge Joints	2.0	8.0		16.0									26
10.2.1.2 Attend Up to Three Meeetings	6.0	3,0		10.0								3.0	9.
10.2.1.3 Address RFIs and NCRs (all disciplines)	2.0	4.0		30.0						4.0	12.0	5,0	52
SUB TOTAL	10.0	12.0		46.0						4.0	12.0	3.0	87
TOTALS	942.0	550.5	349.5	3190.0	2724.0	231.0	330.0	570.0	582.0	679,5	2086.0	408.0	1264
% OF TOTAL TCB LABOR	7.5%	4.4%	548,5	25.2%	21.5%	1.8%	0.000	370.0	302.0	5,4%	16.5%	3.2%	100.
70 OF TOTAL TOD LABOR	1.576	4,470		23.270	21.370	1.070				3.476	10.570	3.270	100

	Project	Senior	Senior	Project		Environmental		Environmental	Senior	Senior	Engineering	200	THE RESERVE
TASK DESCRIPTION	Manager	Engineer	Project Engineer	Engineer	E.I.T.	Manager	Geologist	Specialist III	Engineering Specialist	Engineering Tech	Tech	Admin	Total
LABOR RATE PER HOUR	\$57.00	\$80.00	\$61.00	\$38.00	\$33.00	\$55.00	\$42.00	\$35.00	\$45.00	\$34.00	\$25.00	\$21.00	
Task 1 - Project Management and Communication Plan													
Meetings	156	94	59	156	6	73	4	4	54	2		105	713
QA/QC and Document Control	15	132	100	180	80				472	4	32	132	1147
Invoicing, Contract Document Coordination	12											32	44
Sub Consultant Management	250 40	4				30							284
Project Schedule SUB TOTAL	473.00	230	159	336	86	103	4	4	526	6	32	269	40 2228
DIRECT LABOR COSTS		\$ 18,400.00		\$ 12,768.00								\$ 5,649.00	
OVERHEAD MULTIPLIER		\$ 30,360.00											\$ 176,487.30
PROFIT		\$ 5,851.20						\$ 44.52				\$ 1,796.38	
TOTAL	\$ 80,020.25	\$ 54,611.20	\$ 28,786.63	\$ 37,895.42	\$ 8,423.18	\$ 16,813.72	\$ 498.62	\$ 415.52	\$ 70,252.56	\$ 605.47	\$ 2,374.40	\$ 16,766.23	\$ 317,463.22
TASK 2 - Route and Design Studies													
Field Reconnaissance	8		8	28	8			1		4			56
Evaluation of LIDAR Data; Surveying	4	2	4	24	24								58
Traffic Analysis		1		6	42							2	51
Preliminary Drainage	71			574	200					3	24		872
Preliminary Construction Estimates	4	4		16	16					4	16		60
Schematic Development	2			4	8					2	12		28
Typical Sections	10	2		20 18	16					10	48		90
Horizontal Alignment Vertical Alignment	8	4		42	40								46 94
Cross Sections	4	~		120	40								124
Alternative Schematics	32	32		160						8	80		312
Final Schematic	17	17		76	44					8.5	76		238.5
Implement Plan, Seq of Work & TCP	2		9							4	28		43
SUB TOTAL	170.00	66	21	1088	398					43	284	2	2,072
DIRECT LABOR COSTS	\$ 9,690,00						S -	\$ -	\$ -	\$ 1,462.00			
OVERHEAD MULTIPLIER		\$ 8,712.00					S -	S -		\$ 2,412.30			\$ 130,899.45
PROFIT	\$ 3,081.42						S -	s -		\$ 464.92	\$ 2,257.80		
TOTAL	\$ 28,759.92	\$ 15,671.04	\$ 3,802.01	\$ 122,708,99	\$ 38,981.71	s -	S -	S -	\$ -	\$ 4,339.22	\$ 21,072.80	\$ 124.66	\$ 235,460.34
TASK 5 - Water Pollution Abatement Plan													
Water Pollution Abatement Plan	45			57	132					13	76	-	323
SUB TOTAL	45.00			57	132		-			13	76		323
DIRECT LABOR COSTS OVERHEAD MULTIPLIER	\$ 2,565.00 \$ 4,232.25			\$ 2,166.00 \$ 3,573.90			S -		\$ -	\$ 442.00 \$ 729.30			
PROFIT	\$ 815.67			\$ 3,573.90 \$ 688.79			S -		S -	\$ 729.30 \$ 140.56			\$ 18,857.85 \$ 3,634.42
TOTAL	\$ 7,612.92			\$ 6,428.69			S -	S -		S 1,311.86			
TASK 6 - Utilities	1,012.02	1 4		0,420,00	0 12,520.01	•				0 1,011.00	0 0,000.20	0	00,521.27
Utility Adjustment Coordination	24			88	36		10:						159
Utility Engineering	88			220	300					8	40	11 56	712
SUB TOTAL	112.00			308	336					8	40	67	871
DIRECT LABOR COSTS	\$ 6,384,00	s -	s -		\$ 11,088,00	s -	s -	s -	s -	s 272.00			
OVERHEAD MULTIPLIER	\$ 10,533,60		7	\$ 19,311.60			s -		s -	\$ 448,80		\$ 2,321.55	
PROFIT	\$ 2,030.11	\$ -	\$ -	\$ 3,721.87			s -	s -	s -	\$ 86,50			
TOTAL	S 18,947,71	\$ -	S -	\$ 34,737,47	\$ 32,909.18	S -	\$ -	S -	S -	\$ 807.30	\$ 2,968.00	\$ 4,175.98	\$ 94,545.64
TASK 7 - Environmental													
Public Awareness Meeting	6					42	8	110					166
Environmental Analysis						22	20	40					82
Geologic Assesment						2	78	40					120
Karast Feature Survey						2	84	56					142
Due Diligence						2	80	20				16	118
Categorical Exclusion Document						54	56	288				10	398
SUB TOTAL					•	124	326	554				16	1,026
DIRECT LABOR COSTS OVERHEAD MULTIPLIER	S -	S -					\$ 13,692.00			S -	\$ - \$ -		
PROFIT	S -						\$ 4,354.06			\$ -			
TOTAL	s -	S -					\$ 40,637.86			\$ -			
TASK 9 - PS&E	<u> </u>			-		20,241,70	00,100,00	07,040,02	-		-	007,20	- 110,420.00
Engineering Summary Report	10	20		40							20	1 14 1	120
	12	32		40						4	28	14	130
Roadway Design, Specifications, and Estimates & Misc.	17.5	4.5	14.5	50	84				16	7	58	2	252.5
CR 239 Overlay Plan Set RRB4 Plan Set	17.5 62	4.5 43	14.5 35	50 562	84 712	4		12	16 40	7 98	58 624	9	253,5 2201

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Ronald Reagan Boulevard Phase IV

Bridge Design	6		152		254									368			6	786
Traffic Control	11		11	28	112									30		288		480
Advertising & Bidding Phase																		al Parada
Construction Phase - Shop Drawings, RFI's																		
SUB TOTAL	119	00	242.5	169.5	1339	1758		4			12	56		575.5		1582	31	5,889
DIRECT LABOR COSTS	\$ 6,	783.00	\$ 19,400.00	\$ 10,339.50	\$ 50,882.00	\$ 58,014	00 \$	220,00	S -	S	420.00	\$ 2,520.0	0 \$	19,567.00	\$	39,550.00	\$ 651.00	\$ 208,346.
OVERHEAD MULTIPLIER	\$ 11,	191.95	\$ 32,010.00	\$ 17,060,18	\$ 83,955.30	\$ 95,723	10 \$	363,00	S -	S	693.00	\$ 4,158.0	0 \$	32,285,55	S	65,257.50	\$ 1,074.15	\$ 343,771.
PROFIT			\$ 6,169,20			\$ 18,448	45 \$	69.96	S -	\$	133.56	\$ 801.3	6 \$	6,222.31	\$	12,576,90	\$ 207.02	\$ 66,254.
TOTAL	\$ 20,	131.94	\$ 57,579.20	\$ 30,687.64	\$ 151,017.78	\$ 172,185	55 \$	652.96	S -	\$	1,246.56	\$ 7,479.3	6 \$	58,074,86	\$	117,384.40	\$ 1,932.17	\$ 618,372.
TASK 10 - Construction Phase Services						,,,												
Advertising & Bidding Phase																		
SH 195 Plan Set																		
Ronald Reagan Boulevard Phase IV Plan Set	7	-			16	14				VI.				30		60	20	147
Construction Phase - Shop Drawings, RFI's	10		12		46									4		12	3	87
SUB TOTAL	17.	00	12		62	14				Till .				34		72	23	234
DIRECT LABOR COSTS	\$	969.00	\$ 960.00	\$ -	\$ 2,356.00	\$ 462.	00 S		S -	\$	-	\$ -	\$	1,156.00	\$	1,800.00	\$ 483.00	\$ 8,186.
OVERHEAD MULTIPLIER	\$ 1,	598.85	\$ 1,584.00	\$ -	\$ 3,887.40	\$ 762.	30 S		S -	\$	-	\$ -	\$	1,907.40	\$	2,970.00	\$ 796.95	\$ 13,506.
PROFIT	S	308.14	\$ 305.28	\$ -	\$ 749.21	\$ 146.	92 \$	<u> </u>	S -	S	-	\$ -	\$	367.61	\$	572.40	\$ 153.59	\$ 2,603.
TOTAL	\$ 2.	875.99	\$ 2,849.28	\$ -	\$ 6,992.61	\$ 1,371.	22 S	-	s -	\$	-	\$ -	\$	3,431.01	\$	5,342,40	\$ 1,433.54	\$ 24,296.
DIRECT LABOR COSTS	\$	456.00	\$ -	\$ 488.00	\$ 1,064.00	\$ 264.	00 \$		S -	\$	-	\$ -	\$	136.00	\$	-	S -	\$ 2,408.
OVERHEAD MULTIPLIER	S	752.40	S -	\$ 805.20	\$ 1,755.60	\$ 435.	60 \$	-	s -	S	-	S -	S	224.40	\$	796	\$ -	\$ 3,973.
PROFIT	\$	145.01	\$ -	\$ 155.18	\$ 338.35		95 \$	2	s -	S	-	S -	S	43.25			\$ -	\$ 765.
TOTAL	S 1,	353.41	\$ -	\$ 1.448.38	\$ 3,157.95	\$ 783.	55 \$		s -	5	-	S -	S	403.65	S		\$ -	\$ 7,146.
TOTAL PROJECT (ALL FCs)																		
TOTAL HOURS	943	2	551	350	3,190	2,724		231	330		570	582		680		2,086	408	12,643
DIRECT LABOR COSTS	\$ 53,	694.00	\$ 44,040.00	\$ 21,319.50	\$ 121,220,00	\$ 89,892	00 \$	12,705.00	\$ 13,860.00	0 \$	19,950.00	\$ 26,190.0	0 \$	23,103.00	S	52,150.00	\$ 8,568.00	\$ 486,691.
OVERHEAD MULTIPLIER			\$ 72,666.00			\$ 148,321.	80 S		\$ 22,869.00		32,917.50	\$ 43,213.5	0 \$	38,119.95	\$	86,047.50	\$ 14,137.20	\$ 803,040.
PROFIT			\$ 14,004.72		\$ 38,547.96	\$ 28,585.	66 S	4,040.19	\$ 4,407.48	3 \$	6,344.10	\$ 8,328.4	2 \$	7,346.75	\$	16,583.70	\$ 2,724.62	\$ 154,767.
TOTAL (ALL FCs)	\$ 159.	363.79	\$ 130,710.72	\$ 63,276.28	\$ 359,780.96	\$ 266,799.	46 S	37,708.44	\$ 41,136.48	3 \$	59,211.60	\$ 77,731.9	2 5	68,569.70	\$	154,781.20	\$ 25,429.82	\$ 1,444,500.
% OF TOTAL TCB LABOR COSTS	11.0	3%	9.05%	4.38%	24.91%	18,47%		2.61%	2.85%		4.10%	5.38%		4.75%		10.72%	1.76%	100.00%

Note:

WILLIAMSON COUNTY Ronald Reagan Boulevard Phase IV

TCB'S OVERHEAD DIRECT COSTS

DIRECT REIMBURSABLE EXPENSES	Contract Specified	Rate	Quantity	Cost
CADD Plotting	\$1.50/sf	\$1.50	3300	\$4,950.00
Mylar Plots	\$6.00/lf	\$6.00		
Digital Ortho Plotting	\$2.00/lf	\$2.00		
11"X17" Mylar	\$1.00/sheet	\$1.00	1200	\$1,200.00
81/2"X11" B/W Paper Copies	\$0.12/sheet	\$0.12	3000	\$360.00
11"X17" B/W Paper Copies	\$0.24/sheet	\$0.24	6000	\$1,440.00
8½"X11" Color Paper Copies	\$0.12/sheet	\$0.12	1500	\$180.00
11"X17" Color Paper Copies	\$2.00/sheet	\$2.00	375	\$750.00
4x6 Digital Color Print	\$0.50/picture	\$0.50		
Standard Postage	\$0.39/letter	\$0.41	100	\$41.00
Overnight Mail - Letter Size	\$15.00 Each	\$15.00	25	\$375.00
Overnight Mail - Oversized Box	\$30.00 Each	\$30.00	25	\$750.00
Express Mail	\$20.00 Each	\$20.00	25	\$500.00
Certified Mail	\$20.00 Each	\$20.00	25	\$500.00
Lodging (Maximum-taxes/fees not included)	\$85.00/day/Person	\$85.00		
Meals (Overnight stay Required)	\$36.00/day/Person	\$36.00		
Mileage	\$0.585 cents per mile	\$0.585	8000	\$4,680.00
Car Rental	\$60.00/day	\$60.00		
		TOTAL DIRE	CT COSTS	\$15,726.00

CASTLEBERRY - REVISED 10/15/08

Provide ROE for 4				
	Princ/RPLS	8 hrs	\$1,164	(review & site visit if necessary)
	Postage/Delivery/Remibursables Provide letter, reports and visits as needed	- 75 han	\$1,200	(estimate \$25/tract)
	Provide letter, reports and visits as needed	75 hrs	<u>\$6,911</u> \$9,275	(estimate 1.5-2.0 hrs/tract - clerical and tech)
			95,210	
Provide deed rese	arch to verify latest tract ownership			
	Principal	1 hr	\$146	(review)
	Tech	48 hrs	\$4,423	(estimate 1 hour/tract)
			\$4,569	
Provide houndant	surveys, acquisition maps (field notes & exhibits) for 31 tra	ala		
riovide bodildaly	Boundaries	CtS		
	Doditabiles			
	Princ/RPLS	62 hrs	\$9,021	(estimate 2hrs/tract on average - review & site visit)
	Field Crew	500 hrs	\$63,050	(estimate approx. 2 days/tract on average)
	Tech	372 hrs	\$34,280	(estimate approx. 1.5 days/tract on average)
	Acquisition maps			
	Princ/RPLS	31 hrs	\$4,511	(estimate 1 hr/tract review and sign)
	Tech	196 hrs	\$18,061	(estimate 1 himact review and sign) (estimate 6-7hrs/tract on average)
	Field Crew - set pins	93 hrs	\$11,727	(estilmate 3hrs/tract on average)
			\$140,650	(
Provide cross-sec	tions at 3 creek crossings - 6 cross-sections/creek			
	Princ/RPLS	5 hrs	\$728	(review data/ site visit)
	Tech	24 hrs	\$2,212	(estimate 1 day/creek)
	Field Crew	36	\$4,190	(estimate 1.5 days/creek depending on cover)
			\$7,130	
Provide verification	n shots for county LIDAR			
, , , , , , , , , , , , , , , , , , , ,	Provide 35 Cross-section across proposed ROW - 4 pts			
	Princ/RPLS	2 hrs	\$291	(review data)
	Tech	8 hrs	\$737	(prep and post process data)
	Field Crew	70 hrs	\$8,827	(estimate 2hrs/section)
			\$9,855	
Descride buildies (et	makes a land and the chillies of the control of M. To within 0.501	of account DOM		
Provide building/st	ructure/culvert/drive/utility, etc. location (X,Y,Z) within 350' Princ/RPLS	of proposed ROVV 5 hrs	\$728	(ravious)
	Tech	30 hrs	\$7.28 \$2,765	(review) (post process/draw data)
	Field Crew	100 hrs	\$12,610	(locate features)
_	7.10(2.0) 417	1001110	\$16,102	floorio rodimes)
			* /	
Provide cross-sec	tions along County Road 329 & 237 - 100' stations			
	Princ/RPLS	5 hrs	\$728	(review data/site visit)
	Tech	30 hrs	\$2,765	(prep & post process data)
	Field Crew	175 hrs	\$22,068	(estimate 5hrs/section - depending on cover)
			\$25,561	
Provide improvem	ents & utility locations along County Road 239 based on se	urface evidence & (Ine-call marks	
	Princ/RPLS	4 hrs	\$582	(review data/site visit)
	Tech	20 hrs	\$1,843	(prep/post process data)
	Field Crew	40 hrs	\$5,044	(locate One-call marks and surface utilities w/identifiers
			\$7,469	
Stake/locate bore	holes - 80 locations		****	
	Princ/RPLS Tech	1 hr	\$146 \$369	(review) (prep & post process data)
	Field Crew	4 hrs 40 hrs	\$369 \$5,432	(estimate 05hrs/hole)
	ried diew	40183	\$5,947	(esultate ostilatiole)
			40,0	
Provide design sur	vey and location of existing tie-in at SH 195			
	Princ/RPLS	4 hrs	\$582	(review data - site visit)
	Tech	16 hrs	\$1,474	(prep/post process data)
	Field Crew	24 hrs	\$3,259	(provide x, y, z of features)
			\$5,316	
Drovide design	year and location of existing tip is at ILL 25			
Crovide design Sur	vey and location of existing tie-in at IH 35 Princ/RPLS	4 hrs	\$582	(review data - site visit)
	Tech	4 1115 16 hrs	\$362 \$1,474	(prep/post process data)
	Field Crew	24 hrs	\$3,259	(provide x, y, z of features)
			\$5,316	
Provide Benchmar	k every 1000' along ROW (approx. 32)			
	Princ/RPLS	4 hrs	\$582	(review data/site visit)
	Tech	24 hrs	\$2,212	(prep/post process data)
	Stake locations Set brass disk in concrete	16 hrs 70 hrs	\$2,173 \$8,148	(stake x & y locations of benchmarks to be set)
	207 PIGGG AIGH HI POLIFICIO	,01110	φυ, 140	(estimate approx 2 hrs/benchmark)

Level foop	40 hrs	<u>\$4,656</u> \$17,770	(provide z location)
Rough stake approx, centerline of initial alignment prior to geok	ogical/environmental study		
Princ/RPLS	1 hr	\$146	(review data)
Tech	8 hrs	\$737	(prep/post process data)
Field Crew	40 hrs	\$5,432 \$6,315	(stake proposed centerline)
Provide x, y, z location of possible Karst, environmental & archa	aelogical features		
Princ/RPLS	5 hrs	\$728	(review/site visit)
Tech	8 hrs	\$737	(prep/post process data)
Field Crew	24 hrs	\$3,259	(locate x, y, z of features)
		\$4,724	,
TOTAL		\$265,997	

Pavement Engineering Design Scope Ronald Reagan Boulevard From SH 195 to IH-35 Williamson County, Texas

1. Visua	I Distress Survey	Quantity	Unit	Rate	Subtotal
1.20	Automated Pavement Distress Data Collection	20	hr	\$325.00	\$6,500.00
	Data Reduction and Report				
3.3	Project Manager	2	hr	\$135.00	\$270.00
3.4	Project Engineer	8	hr	\$120.00	\$960.00
				Subtotal	\$7,730.00
2. FWD	Testing	Quantity	Unit	Rate	Subtotal
	FWD Testing				
1.22.1	Falling weight Deflectometer	12	hr	\$225.00	\$2,700.00
1.13	Traffic Control	1	day	\$2,000.00	\$2,000.00
	Data Reduction and Report				
3.3	Project Manager	6	hr	\$135.00	\$810.00
3.4	Project Engineer	16	hr	\$120.00	\$1,920.00
		1114		Subtotal	\$7,430.00
	ment Core Sampling	Quantity	Unit	Rate	Subtotal
	Pavement Core Sampling				
1.1	Equipment Mobilization	100	mi	\$4.00	\$400.00
1.13	Traffic Control	1	day	\$2,000.00	\$2,000.00
3.8	Senior Technician	12	hr	\$65.00	\$780.00
3.9	Technician	12	hr	\$60.00	\$720.00
	Data Reduction and Report				
3.3	Project Manager	2	hr	\$135.00	\$270.00
3.4	Project Engineer	2	hr	\$120.00	\$240.00
				Subtotal	\$4,410.00
	1 D	I 0	1114	I Dete I	Outstatel
	neering and Report	Quantity	Unit	Rate	Subtotal
	Pavement Thickness Design and Report		ha	6460.00	¢220.00
	Project Principal	2 8	hour	\$160.00	\$320.00
	Senior Project Manager		hour	\$150.00	\$1,200.00
	Project Engineer	20	hour	\$125.00	\$2,500.00
3.7	Graduate Engineer	30	hour	\$90.00	\$2,700.00
				Subtotal	\$6,720.00
		Will be to	Total Es	timated Cost	\$26,290.00

SWCA

Labor Category	Rate	Hours	Fee
Managing Principal	\$145.00	1	\$145.00
Program Director/Sr. Project Manager	\$135.00	5	\$675.00
Project Archaeologist	\$75.00	14	\$1,050.00
Archaeological Crew Chief	\$55.00	96	\$5,280.00
Archaeological Technician	\$35.00	62	\$2,170.00
Historian	\$85.00	40	\$3,400.00
GIS/GPS Specialist	\$75.00	22	\$1,650.00
Administration Assistant	\$45.00	29	\$1,305.00
Sub Total			\$15,675.00
2% Communication Fee on Labor			\$313.50
Total			\$15,988.50

EXHIBIT D FEE SCHEDULE/BUDGET LABOR COST

Ronald Reagan Boulevard Phase IV

Williamson County

TASK DESCRIPTION	OFFICER/ PRINCIPAL/ SR PROJ DIR	SENIOR ASSOCIATE	PROF. ENGINEER	PROJECT MOR	PROFESSIONAL GEOLOGIST	HEALTH SAFETY OFFICER CHEMIST	ECOLOGIST/ BIOLOGIST	SOIL SCIENTISTS	er gib Analyot	GIS TECHNICIAN	FIELD TECHNICIAN	ADMINISTRATOR	ADMIN. WORD PROCESSOR	TOTAL LABOR HRD.
TASK 1 - PROJECT MANAGEMENT AND QA/QC	500000000000000000000000000000000000000	Profesionales	(\$500 p. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	garanta kirikatik Pir	2011 (SEC. 2012)	er communication	ünvejen erzete	a gasa arerratit serbi	ari i i refficiele del		1992100000000	ARCHARATORIA	SERVICE CONTRACTOR	BERNESE PROFIS
General Coordination/Monthly Status Reports	12			35								4	. 6	57
	1		ļ											
TASK 2 - ENVIRONMENTAL SETTING AND ANALYSIS	and the content of terransia.	s electrose esperás	ete atau aan ga	krazente ja		diameter in	1,544 (1,000)	poto tatina nyaanini		a. Williams	to adequate service	Assertation of the	Allera en en entité (499466384686
Data Gathering				2	8	. 0								10
Site Reconnaissance			2	24	24									50
Preparation of Wetland Areas Map				4	4			24		24	8		and a second	64
Report Preparation		1		20			8					10		38
USACE Verification		1		12	8									20
Threatened and Endangered Species Assessment				12	4		80			20	20			136
Wetland Impact Assessment				6 .	6			10		10			4	36
Preparation of Wetland Areas Map - (Impacts)				2	2			4		20				28
TASK 3 - USACE NATIONWIDE PERMIT COORDINATION/PREPARATION	Misserian per en	i statutaran para	22174525 - 1 - 1 - 1 - 1 - 1	ating protection	en de la companya de La companya de la co	Market 1999	et at televisione const	ar a sussana distant	gr (120 s 220 gg) (200 g	2002 - 100 -	250-00-02-25725	Negati kanan eng	Maria de la composició (1929)	andika diasati
Section 404 NationwidePermit	10	1	8	40	20		8	20		24	***************************************		4	134
SUBTOTAL TASK8	22	0	10	157	76	0	96	58	0	98	28	14	14	573
		1	I							T		1		1
HOURS SUB-TOTALS	22	0	10	157	76	0	96	58	0	98 \$87.00	28 \$78.00	14	14	
ABOR RATE PER HOUR SUBTOTAL	\$160.00 \$3,520.00	\$136,00 \$0,00	\$136.00 \$1,360.00	\$121.00 \$18,997.00	\$112.00 \$8,512,00	\$112.00 \$0.00	\$102.00 \$9.792.00	\$102.00 \$5.916.00	\$97.00 \$0.00	\$8,526.00	\$2,184,00	\$73.00 \$1.022.00	\$63.00 \$882.00	\$60,711.00
SOBTOTAL	\$3,520.00	\$0.00	\$1,350.00	\$10,887.00	\$6,512,00	\$0.00	\$9,792.00	\$5,916.00	\$0,00	\$6,526.00	\$2,104.00	\$1,022.00	\$662.00	\$60,711.00
		11 X 17	8.5 X 11	11 X 17	8.5 X 11	HAZ MAT				RESOURCE	l			
	AERIAL	ew	σw	COLOR	COLOR	DATA BASS	FIELD	MAPS	POSTAGE	AGENCY	MILEAGE	PER DIEM	DIRECT	
	PHOTOGRAPHY	COPIES	COPIES	COPIES	COPIES	RESEARCH	SUPPLIES			SEARCH	<u> </u>		EXPENSES	1
SUB-TOTALS	12	60	1,980	650	210	.0	3	9	300	1	1,000	4		
RATE	\$50,00	\$0.15	\$0.10	\$1.50	\$1.00	\$1,500.00	\$200.00	\$30.00	\$0.370	\$50.00	\$0.585	\$30.00		1
DIRECT EXPENSE COST	\$600,00	\$9.00	\$198.00	\$975.00	\$210.00	\$0.00	\$600.00	\$270.00	\$111.00	\$50,00	\$585.00	\$120.00	\$3,728.00	1

(Katerones produkti)	SUMMARY
OR \$60,711.00	DIRECT LABOR
ES \$3,728.00	DIRECT EXPENSES
AL \$64,439.00	GRAND TOTAL

RDS

EXHIBIT D - FEE SCHEDULE Ronald Reagan Boulevard Phase IV

TASK DESCRIPTION	Senior Project Engineer	Project Engineer	E I.T.	Senior Engineering Tech	Engineering Tech	Admin	Total
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
Task 1 - Project Management and Communication Plan							
1.1 Meetings	I Same						
1.1.1 Kick-off Meeting (1)	2.0						2.0
1.12 Weekly Staff Meetings (16)	24.0						24.0
1.1.3 Progress Meetings (4 Meetings)	8.0						8.0
1.1.4 Milestone Meetings (1)	2.0						2.0
1.1.5 Follow-up coordination	16.0						16.0
1.1.6 Meet with TxDOT	4.0						4.0
SUB TOTAL	56.0	0.0	0.0	0.0	0.0	0.0	56.0
1.2 QA/QC			11 14 1	وكالإيل المحالية			
1.2.1 Detailed Check Review	24.0			48.0			72.0
1.2.2 Inter-Discipline Coordinaton Review	6.0			12.0			18.0
SUB TOTAL	30.0	0.0	0.0	60.0	0.0	0.0	90.0
2.0 Roadway Design, Specifications, and Estimates & Misc.						THE PART OF	ljjelmi s
2.1 SH 195 Plan Set				-			0.0
2.1.1 Title Sheet	2.0			6.0			8.0
2.12 Index of Sheets	2.0			4.0			6.0
2.1.3 Estimate & Quantity Sheet	8.0	ألحب كالباقاة		20.0			28.0
2.1.4 Environmental Permits, Issues & Commitments Sht	2.0			4.0			6.0
2.1.5 Develop General Notes	8.0		N		Control of the Contro		8.0
2.1.6 Project Layout Sheet (Double banked @ 1" = 200')	6.0			12.0			18.0
2.1.7 Typical Sections	4.0			8.0			12.0
2,1.8 Finalize the Earthwork	6.0			8.0			14.0
2.1.9 Earthwork Summary Sheet	6.0			8.0			14.0
2.1.10 SH 195 RdwyDmg P&P (@ 1"=100' H & 1"=10' V) 3 sheets	21.0			39.0			60.0
2.1.11 Incorporate Cross Sections onto plan sheets	32.0			74.0			106.0
2.1.12 RRB4 / SH 195 Intersection Layout	12.0			20.0			32.0
2.1.13 Miscellaneous Roadway Details Sheets	4.0			6.0			10.0
2.1.14 Driveway Plan and Profiles Sheet(2 driveways/sheet)(6 sheets)	18.0			30.0			48.0
2.1.15 Develop a list of Specifications (& update the estimate)	11.0			8.0			19.0
2.1.16 Develop a DVD containing all electronic PS&E files	11.0			8.0			8.0
2.1.17 Plot 3 paper sets of 60% complete PS&E & submit	4.0		Table Visit In	6.0			10.0
2.1.18 Update PS&E per 60% comments	4.0			12.0			16.0
2.1.19 Plot 3 paper sets of 90% complete PS&E & submit	4.0			6.0			10.0
2.1.19 Plot 3 paper sets of 90% comments 2.1.20 Update PS&E per 90% comments	4.0			12.0			16.0
2.121 Download labst standards, plot & incorporate into PS&E	4.0			4.0			8.0
2.1.2.1 Download labst standards, plot & incorporate into PS&E				12.0			16.0
2.1.22 Plot 5 paper & 1 mylar set of 100% complete PS&E & submit	4.0			12.0			10.0
SUB TOTAL	166.0	0.0	0.0	307.0	0.0		473.0
2.2 CR 237 Overlay Plan Set	0.0						0.0
2.2.1 Develop a Title Sheet	2.0			6.0			8.0
2.22 Develop an Index of Sheets	2.0			4.0			6.0
2.2.3 CR 237 Rdwy/Dmg P&P (@ 1"=100' H & 1"=10' V) 2 sheets	12.0			28.0			40.0
2.2.4 Develop cross sections	16.0			36.0			52.0
2.2.5 Develop a DVD containing all electronic PS&E files				8.0			8.0
2.2.6 Plot 3 paper sets of 60% complete PS&E & submit	6.0			6.0			12.0
2.2.7 Update PS&E per 60% comments	6.0			12.0			18.0
2.2.8 Download latest standards, plot & incorporate into PS&E	4.0			4.0			8.0
2.2.9 Plot 5 paper & 1 mylar set of 100% complete PS&E & submit	6.0			8.0			14.0
							0.0
AUD TOTAL	540	0.0	0.0	1100	00		0.0
SUB TOTAL 3.0 Traffic Control	54.0	0.0	0.0	112.0	0.0		166.0
	240			100			70.0
3.1 Develop TCP/Seq of Work/Signing - SH 195 (3-phases) 3.2 Develop TCP/Seq of Work/Signing - Along CR 237 (1 to 3 phase)	24.0			48.0			72.0
3.2 Develop TCP/Seq of Work/Signing - Along CR 237 (1 to 3 phase)	16.0		0.0	36.0	0.0	0.0	52.0
SUB TOTAL	40.0	0.0	0.0	84.0	0.0	0.0	124.0

RDS

EXHIBIT D - FEE SCHEDULE

TASK DESCRIPTION		Project ineer		Project Enginee \$47.50			E.I.T. \$35.00	1	Senior Engineering Tech \$45.00		gineerin Tech \$25.00	9	Admin \$15.00	Total
Task 1 - Project Management and Communication Plan	302	. 50		347.00			\$35.00		345.00		\$25.00		\$15.00	
1.1 Meetings	-	6	r —	0	_		0	Т	0		0	\neg	0	56
SUB TOTAL		3.0		0.0	_		0.0		0.0	_	0.0	_	0.0	56.0
SUB TOTAL		5.0	-	0.0	_	_	0.0	-	0.0	_	0.0	-	0.0	0.00
	\$:	3,500.00	\$		2	\$		S	2	\$	0.5	S	200	\$ 3,500.00
			Š		_	\$		S	-	Š	- 5			\$ 4,725.00
	Š		S		-	Š		Š		Š	-			\$ 987.00
		9,212.00				S		S		Š		-	90	\$ 9,212.00
1.2 QA/QC and Document Control		3,212.00	Ť	0		Ť	0	Ť	60	-	0	-1	0	90
1.2 QAQQ and Document Control SUB TOTAL		0.0		0.0			0.0	-	60.0		0.0	-	0.0	90.0
SUB TOTAL		.00	_	0.0	_	 	0.0	+	60		0.0	\dashv	0.0	90.00
		1,875.00	9			\$	- 5	s	2,700.00	٠,	-	S	9.0	\$ 4,575.00
		2.531.25				Š		Š	3,645,00		-	-	100	\$ 6,176.25
	S	528.75				s	141	s	761.40			 	(*)	\$ 1,290.15
		4,935.00			9	Š	22%	Š	7.106.40		192	S	080	\$ 12,041,40
2.0 Roadway Design, Specifications, and Estimates & Misc.	•	1,000.00	1 4			10		10	7,100.40	<u> </u>	- CO 15	14		10 12,011.10
2.1 SH 195 Plan Set	16	6.0		0.0		$\overline{}$	0.0	$\overline{}$	307.0		0.0	\neg	0.0	473,0
2.2 CR 237 Overlay Plan Set		4.0		0.0	_		0.0		112.0		0.0		0.0	166.0
SUB TOTAL		0.0		0.0			0.0		419.0		0.0	\neg	0.0	639.0
SUB TOTAL		0.00	1	0	_		0	+	419	-	0	\neg	0	639.00
The first of the second control of the secon		3.750.00	S		2	S	-	S		S	(-	- \$	140	\$ 32,605.00
		8,562.50			2	s	- 2	S	25,454.25		- 02	. \$	720	\$ 44,016.75
		3.877.50				S		S	5,317,11		- 0-		500	\$ 9,194.61
		6,190.00			2	S	340	\$	49,626,36		-	- S	(4)	\$ 85,816.36
3.0 Traffic Control		10	Ť	0	_	<u> </u>	0	+	84		0		0	124
SUB TOTAL		.00		0			0		84		0		0	124.00
		2,500.00	S	10,50	20	\$	(-)	S	3,780.00	S		- S		\$ 6,280,00
		3,375.00			12	S	220	\$	5,103.00		772	-	100	\$ 8,478.00
	S	705.00			+,	\$		S	1,065.96			. \$	1.50	\$ 1,770.96
						s		S	9,948.96		1.	- S	100	\$ 16,528,96
TOTAL	\$	6,580.00	3											
TOTAL TOTAL PROJECT (ALL FCs)	\$	6,580.00	\$											
TOTAL PROJECT (ALL FCs)		6,580.00	3	0			0	T	563		0		0	909
TOTAL PROJECT (ALL FCs) TOTAL HOURS	34	46		0		s	0 -	s	563 25.335.00	S	0 .		0 -	909 46,960
TOTAL PROJECT (ALL FCs) TOTAL HOURS DIRECT LABOR COSTS	\$ 2	-	\$	0		\$		\$				-		
TOTAL PROJECT (ALL FCs) TOTAL HOURS DIRECT LABOR COSTS OVERHEAD MULTIPLIER	\$ 2 \$ 2	46 1,625.00	\$	0	•		•		25,335.00	\$. \$	(*)	46,960

Direct Expenses					
tem	Basis	Quantity	Units	Rate	Extension
Mileage	10 trips at 100 ml/trip	100	miles	58.5c/mi	\$585
Printing (paper)	22 sets at 60 sheets/	/set 132	sheets	10.0c/sht	\$132
Printing (mylar)	1 set at 60 sheets/se	et 6	sheets	\$2.50/sht	\$150
Deliveries	6 deliveries each		6 each	\$20	\$120
Total direct expenses					\$987
Total RDS project fee estimate					\$124,586

RDS

EXHIBIT D - FEE SCHEDULE

TASK DESCRIPTION		nior Project Engineer \$62.50		Project Engineer \$47.50		E.I.T. \$35.00		Senior Engineering Tech \$45.00	E	Engineering Tech \$25.00		Admin \$15.00	Total
Task 1 - Project Management and Communication Plan		302.30	ш	347.30		\$55.00		343.00		323.00	4	313.00	
1.1 Meetings		56		0	T	0	T	0	Г	0	T	0	56
SUB TOTAL		56.0		0.0	1	0.0	+	0.0		0.0		0.0	56.0
SUB TOTAL	_	00.0	\vdash	0.0	+	0.0	+	0.0	_	0.0	+-	0.0	0.00
DIRECT LABOR COSTS	\$	3,500.00	5	- 1	\$		S		S		S		\$ 3,500.00
OVERHEAD MULTIPLIER	Š	4.725.00			Š		S		\$	-	İs	-	\$ 4,725.00
PROFIT	Š	987.00			\$	-	S		S		S		\$ 987.00
TOTAL	Š	9,212.00		26	Š	20	S		s	- 5	\$		\$ 9,212.00
1.2 QA/QC and Document Control	Ť	30	Ť	0	Ť	0	Ť	60	Ť	0	Ť	0	90
SUB TOTAL		30.0		0.0	_	0.0	_	60.0	_	0.0	+	0.0	90.0
SUB TOTAL	1	30.00	╁	0.0	+	0	+	60	1	0	+-	0	90.00
DIRECT LABOR COSTS	s	1,875.00	9		s		S		9		S		\$ 4,575.00
OVERHEAD MULTIPLIER	Š	2,531.25			S		S				Š	-	\$ 6,176.25
PROFIT	š	528.75		-	\$		S				S		\$ 1,290.15
TOTAL	Š	4,935.00		101	S	2	S			90	s	3	\$ 12,041.40
2.0 Roadway Design, Specifications, and Estimates & Misc.	Ť	4,555.00	1 2		10		1 4	7,100.40	1 4		1.0		10 12,041.40
2.1 SH 195 Plan Set		166.0		0.0	_	0.0	_	307.0	Т	0.0	Т	0.0	473.0
2.2 CR 237 Overlay Plan Set		54.0		0.0		0.0		112.0		0.0	1	0.0	166.0
SUB TOTAL	_	220.0	_	0.0	+	0.0	+	419.0		0.0	-	0.0	639.0
SUB TOTAL	1—	220.00	-	0	+	0	_	419	-	0	+	0	639.00
DIRECT LABOR COSTS	s	13.750.00	5		s		5		\$		18		\$ 32,605.00
OVERHEAD MULTIPLIER	š	18,562.50			Š	-	3				Š		\$ 44,016.75
PROFIT	Š	3,877.50		351	\$		Š			-	Š		\$ 9,194.61
TOTAL	s	36,190.00		141	Š	<u> </u>	5				Š	11 22	\$ 85,816.36
3.0 Traffic Control	Ť	40	Ť	0	Ť	0		84	Ť	0	Ť	0	124
SUB TOTAL		40.00	_	0	+	Ö	_	84	†	0	1	0	124.00
DIRECT LABOR COSTS	s	2,500.00	5	121	s		5		S	121	S	-	\$ 6,280.00
OVERHEAD MULTIPLIER	Š	3,375.00			15	- 4	13			1	Š		\$ 8,478.00
PROFIT	Š	705.00		-	\$		1 5				S		\$ 1,770.96
TOTAL	s	6.580.00		62	S		1 5			747	S	14	\$ 16,528.96
TOTAL PROJECT (ALL FCs)	Ť	5,500.00	Ť		1.			5,010.00	-		1 4		1
TOTAL HOURS		346	П	0	1	0	T	563		0	1	0	909
DIRECT LABOR COSTS	s	21,625.00	S		s	-	1		s		S	-	46,960
OVERHEAD MULTIPLIER	\$	29,193.75			Š		1				S	12	63,396
PROFIT	S	6.098.25			S		1				Š		13.243
TOTAL (ALL FCs)		56,917.00							1 4		1 4		1,4,2,10

Direct Expenses					
tem	Basis	Quantity	Units	Rate	Extension
Mileage	10 trips at 100 mi/trip	1000	miles	58.5c/mi	\$585
Printing (paper)	22 sets at 60 sheets/set	1320	sheets	10.0c/sht	\$132
Printing (mylar)	1 set at 60 sheets/set	60	sheets	\$2.50/sht	\$150
Deliveries	6 deliveries each	6	each	\$20	\$120
Total direct expenses					\$987
Fotal RDS project fee estimate					\$124,586

EXHIBIT D

FEE SCHEDULE-BUD GET Williamson County - Ronald Reagan Boulevard North (Phase 4) Direct Labor

AGI	JII	RR	Ε	&	FI	ΕL	.DS
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					\$68.00	\$37.50	\$28.00	\$16.00		
					PROJ	PROJ	EIT	CLER.		
					MNGR	ENG	ENG		HOURS	TOTAL
	Tasi	t 1 - Project i	Managemen	and Communication Plan						
	1.1	Attend Project	t Kickoff Meetin	3	4				4	\$232.0
	1.1	Attend Progre	ess Meetings (as	sume 3 meetings)	12				12	\$696.0
	1.1			chematic, 60%, 90% & 100%)	16				16	\$928.0
	1.2			Check Reviews for AFLP work	12				12	\$696.0
	1.3			s report on AFLP portion of work	12			12	24	\$888.0
	1.4	Participate in	Inter-Discipline	Coordination Reviews	8			4	12	\$528.0
			SUBTOTAL	HOURS)	64	0	0	16	80	\$3,968.0
	Tack	2 Field Be	connaissan						·	
	2	Site Visit (esti		:0	6	6	6		18	\$741.0
***************************************	-	 	SUBTOTAL	HOURS)	6	6	6		18	\$741.0
	Task	10 - Pretimi	inary Constr	uction Estimates						
	10	Provide assist	tance with Traffi	c related costs for Prelim Estimates	2		6		8	\$284.0
			SUBTOTAL	HOURS)	2	0	6	0	8	\$284.0
	Tack	20 - Signin	a Payamani	Marking, and Signalization						
				and Striping Layouts (3 sheets)	12	18	36		66	\$2,379
**********				tetals (3 sheets)	12	18	36		66	\$2,379.0
		Sion Details (etala (o alleeta)	8	12	24		44	\$1,586.0
				nt Marking and Defneation	2	4	12		18	\$602
	20.5	Provide Small	I Sign Summary	with Mounting Information	4	8	16		28	\$980.
			Layout (estimat		1	2	4		7	\$245
				ds (estimate 20 sheets)	2	4	20		26	\$826.
			ngs (Paid for unc		0	0	0		0	\$0.
	╂	 	SUBTOTAL	(HOURS)	41	- 66	148	0	255	\$8,997.
				Hours	113	72	160	16	361	\$13,990.4

EXHIBIT D FEE SCHEDULE-BUDGET Williamson County - Ronald Reagan Boulevard North (Phase 4)

SUMMARY

AGUIRRE & FIELDS	TOTAL MAN-HOURS	DIRECT LABOR	OVERHEAD 170.00%	FIXED FEE 12%	TOTAL <u>LABOR</u>	DIRECT COSTS	TOTAL
Task 1 Proj Management & Comm Plan	80	\$3,968.00	\$6,745.60	\$1,285.63	\$11,999.23		\$11,999.23
Task 2 Field Reconnaissance	18	\$741.00	\$1,259.70	\$240.08	\$2,240.78		\$2,240.78
Task 10 Preliminary Cost Estimates	8	\$284.00	\$482.80	\$92.02	\$858.82		\$858.82
Task 20 Signing, Marking & Signalization	255	\$8,997.00	\$15,294.90	\$2,915.03	\$27,206.93		\$27,206.93
0 0 0	361	\$13,990.00	\$23,783.00	\$4,532.76	\$42,305.76	\$0.00	\$42,305.76

EXHIBIT D FEE SCHEDULE-BUD GET Williamson County - Ronald Reagan Boulevard North (Phase 4) Direct Labor

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AGU	IKKE	& FIR	11)8

		\$58.00	\$37.50	\$28.00	\$16.00		
		PROJ	PROJ	EIT	CLER.		
		MNGR	ENG	ENG		HOURS	TOTAL
 Task 1 - Project Ma	nagement and Communication Plan						
 1.1 Attend Project Ki	Attend Project Kickoff Meeting				1	4	\$232.0
	Attend Progress Meetings (assume 3 meetings)					12	\$696.0
	1 Attend Milestone Meetings (Schematic, 60%, 90% & 100%) 2 Provide Appropriate Debitled Check Reviews for AFLP work					16	\$928.0
						12	\$696,0
	and Progress report on AFLP portion of work	12			12	24	\$888.0
 1.4 Participate in Inte	r-Discipline Coordination Reviews	8			4	12	\$528.0
	SUBTOTAL(HOURS)	64	0	0	16	80	\$3,968.0
 Task 2 - Field Reco	nnaiseanna		<u> </u>	<u> </u>			
 	Site Visit (estimate 1 visit)		6	6		18	\$741.0
	SUBTOTAL(HOURS)	6	6	6		18	\$741.0
	30810145(11001(3)						3/41.0
 Task 10 - Prelimina	Fask 10 - Preliminary Construction Estimates						
 10 Provide assistance	Provide assistance with Traffic related costs for Prelim Estimates		<u> </u>	6	L——	8	\$284.0
	SUBTOTAL(HOURS)	2	0	6	0	8	\$284.0
 Task 20 - Signing.	Pavement Marking, and Signalization						
			18	36		66	\$2,379,0
	0.2 Prepare Pavement Marking Details (3 sheets)		18	36		66	\$2,379.0
	20.3 Sign Details (2 sheets)		12	24		44	\$1,586.0
 20.4 Provide Summary of Payement Marking and Defineation		2	4	12		18	\$602.0
	20.5 Provide Small Sign Summary with Mounting Information		8	16		28	\$980.0
 20.6 Traffic Signal Lay	20.6 Traffic Signal Layout (estimate 4 Sheets)			4		7	\$245.0
20.7 Assemble Applica	7 Assemble Applicable Standards (estimate 20 sheets)			20		26	\$826,0
 20.8 Attend Meetings	(Paid for under Task 1)	0	0	0		0	\$0.0
	SUBTOTAL(HOURS)	41	66	148	0	255	\$8,997.0
	Hours	113	72	160	16	361	\$13,990.0