

**CAMINO REAL REGIONAL MOBILITY AUTHORITY  
BOARD RESOLUTION**

**WHEREAS**, the Camino Real Regional Mobility Authority (CRRMA) and Dannenbaum Engineering Company – El Paso LLC (Engineer) entered into a Contract for Engineering Services dated August 14, 2019 (Contract) in order for the Engineer to provide various design services to the CRRMA, as may be requested from time to time, via execution of a Work Authorization; and

**WHEREAS**, the CRRMA and Engineer now desire to enter into a work authorization pursuant to the Contract, in order for the Engineer to provide design services for the completion of plans for an extension of the Tierra Este Road, and any additional associated work as may be requested by El Paso County.

**NOW, THEREFORE, BE IT RESOLVED BY THE CMAINO REAL REGIONAL MOBILITY AUTHORITY:**

**THAT**, the Executive Director be authorized to execute **Work Authorization No. 1** with Dannenbaum Engineering Company – El Paso LLC including any additional documents or materials as may be required, for the provision of design services for the completion of plans for the extension of Tierra Este Road, as requested by El Paso County.

**PASSED AND APPROVED THIS 13<sup>TH</sup> DAY OF MAY 2020.**

**CAMINO REAL  
REGIONAL MOBILITY AUTHORITY**

**ATTEST:**

\_\_\_\_\_  
Joyce A. Wilson, Chair

\_\_\_\_\_  
Joe R. Fernandez, Board Secretary

**APPROVED AS TO CONTENT:**

\_\_\_\_\_  
Raymond L. Telles  
Executive Director

**WORK AUTHORIZATION NO. 1  
CONTRACT FOR ENGINEERING SERVICES**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Article 5 of the Contract for Engineering Services (the Contract) entered into by and between the CAMINO REAL REGIONAL MOBILITY AUTHORITY (the “CRRMA”), and DANNENBAUM ENGINEERING COMPANY – EL PASO LLC (the “Engineer”), dated August 14, 2019 (Contract).

**PART I.** The Engineer will perform engineering services generally described as the preparation of plans, specifications and estimate for the construction project known as the Tierra Este Road Extension Project from Cozy Cove Avenue to Pellicano Drive, in accordance with the project description attached hereto and made a part of this Work Authorization. The responsibilities of the CRRMA and the Engineer as well as the Engineer’s work schedule are further detailed in **EXHIBIT A, EXHIBIT B and EXHIBIT C**, which are attached hereto and made a part of the Work Authorization.

**PART II.** The maximum amount payable to the Engineer under this Work Authorization is **THREE MILLION EIGHTY NINE THOUSAND TWO HUNDRED THIRTY NINE AND 24/100 DOLLARS (\$3,089,239.24)** and the method of payment is Specified Rate Basis as set forth in Attachment E of the Contract. This amount is based upon the fees set forth in the Contract and the Engineer’s Fee Schedule, which is attached hereto and made a part of this Work Authorization as **EXHIBIT D**.

**PART III.** Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

**PART IV.** This Work Authorization shall become effective on the last date identified below and shall terminate upon CRRMA final acceptance of the services requested herein, unless extended by a written amendment to this Work Authorization.

**PART V.** This Work Authorization does not waive the Parties' responsibilities and obligations provided under the Contract.

**IN WITNESS WHEREOF**, this Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

**DANNENBAUM ENGINEERING  
COMPANY – EL PASO LLC**

**CAMINO REAL  
REGIONAL MOBILITY AUTHORITY**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

By: \_\_\_\_\_  
Raymond L. Telles  
Executive Director  
Date: \_\_\_\_\_

## **LIST OF EXHIBITS**

Exhibit A	Services to be provided by the CRRMA
Exhibit B	Services to be provided by the Engineer
Exhibit C	Work Schedule
Exhibit D	Fee Schedule

## **Exhibit A**

### **SERVICES TO BE PROVIDED BY THE CRRMA**

The CRRMA shall perform and provide the following in a timely manner so as not to delay the service to be provided by the Engineer:

1. Authorize the Engineer in writing to proceed
2. Place at Engineer's disposal all reasonably available information pertinent to the project, including previous reports, drawings, specifications or any other data relative to the project.
3. Designate in writing a person to act as the Authority's representative, such person to have complete authority to transmit instructions, receive information and interpret and define Authority's decisions with respect to the services to be provided by the Engineers.
4. Render decisions and approvals, as soon as reasonably possible to allow for the expeditious performance of the service to be provided by the Engineer.

## **Exhibit B**

### **SERVICES TO BE PROVIDED BY THE ENGINEER**

## Exhibit B

### SERVICES TO BE PROVIDED BY THE ENGINEER

#### I. PROJECT SUMMARY

The Tierra Este Road Extension project consists of roadway improvements for approximately 3.0 miles from the existing Tierra Este Rd./Cozy Cove Ave. intersection, to the Tierra Este Rd./Pellicano Dr. intersection. The existing Tierra Este Rd. is approximately 40-foot cleared dirt path. A section has been paved to approximately half of the proposed 120-foot right-of-way (ROW) at the northern end of the project, with half of the ROW laying within the City of El Paso. This project will consist of a roadway extension of the Tierra Este Rd. facility, creating a 6-lane divided facility, 5' bike lanes, hike and bike trail, pavement, illumination (if warranted), safety appurtenances, drainage, and landscaping. The project will require up to 3 off-site ponding areas. The project is anticipated to be let in 2022.

Professional Services will be provided by the Engineer to produce preliminary plan documents, schematic and final plans, specifications, and estimates (PS&E) for the widened roadway. These services generally will include environmental, schematic design, topographic surveying, pavement design, development of roadway geometry, drainage improvements along Tierra Este Rd., right-of-way mapping, geotechnical, illumination, traffic signal modifications at Pellicano Dr., new traffic signals at Vista Del Sol Dr., Windemere Ave., and Montwood Dr. (if warranted), landscaping medians and parkways, stakeholder coordination, document preparation, and design services necessary for the preparation of PS&E. Coordination with the County of El Paso, as well as TXDOT, City of El Paso, CRRMA, and other affected entities and all utilities will be conducted. The Engineer will also be required to prepare a complete construction bid package, participate during the bid phase (respond to any questions received by prospective bidders and attend any pre-bid conference). Construction phase services will be contracted under a separate work authorization.

#### II. SERVICES TO BE PROVIDED BY THE ENGINEER

Professional services to be provided by the Engineer will conform to the latest approved editions of the TXDOT Project Development Process Manual, the Roadway Design Manual, the PS&E Preparation Manual, and other applicable codes, ordinances, criteria, standards, regulations, policies, guidelines, and standard practices and procedures. The Engineer will work at the direction and supervision of the CRRMA Executive Director and its General Engineering Consultants (GEC), providing reports and findings, as required. The Engineer will work cooperatively and collaboratively with other governmental agencies and design consultant firms who are responsible for adjacent projects or jurisdictional approval. Scheduling of activities below will conform to established CRRMA, County of El Paso and/or other municipal review and comment periods for each deliverable of the project. TXDOT DDR schedule will be used to determine submittal dates.

The services to be provided by the Engineer may include, but is not limited to, the following key elements:

- Project Management
- Surveying
- Right-of-Way Mapping
- Geotechnical Investigations
- Environmental Studies
- Public Involvement Activities
- Schematic Design
- Drainage Analysis
- Stakeholder Coordination
- Plans, Specifications and Estimates
- Utility Coordination
- Bid Phase Services

#### A. Project Management

The Engineer, in coordination with the CRRMA, will be responsible for directing and coordinating all activities related to the Project. Project management and administration tasks shall include a Project Management/Work Plan, Progress Reporting, Coordination/Administration, Project Control/Scheduling, and Subconsultant Management. The prime provider's efforts shall include but not limited to the following:

1. Project Management/Work Plan
  - 1.1. Develop a Project Management/Work Plan to reflect the following:
    - Organization and responsibilities

## Tierra Este Rd. Project

- Coordination and communication procedures
  - Coordination meetings
  - Deliverables
  - Graphic production standards
  - Quality control (QC) procedures/plan to ensure the accuracy and quality of the deliverables produced
  - Other important operational information pertaining to prime provider/CRRMA collaboration.
  - A Plan to meet the DBE goal of XX% per TxDOT requirements
2. Progress Reporting
    - 2.1. Prepare and submit to the CRRMA monthly progress reports of activities completed during reporting period.
      - 2.1.1. Activities Completed
      - 2.1.2. Initiated and Ongoing Activities
      - 2.1.3. Planned Activities
      - 2.1.4. Problems Encountered/Problem Remedies
      - 2.1.5. Overall Status including Tabulation of Percentage Complete by Task
      - 2.1.6. Updated Project Schedule
  3. Prepare and Submit Invoices. The report shall be submitted as an attachment to the invoice submittal. The GEC shall distribute as necessary.
    - 3.1 The report shall be submitted as an attachment to the invoice submittal. The GEC shall distribute as necessary.
      - 3.1.1. Financial and DBE Participation
      - 3.1.2. Hours Worked by Staff Classification
      - 3.1.3. Hourly Rate by Staff Classification
      - 3.1.4. Monthly Invoice Amount
      - 3.1.5. Monthly Cumulative Invoice Amount
  4. Coordination/Administration
    - 4.1. The Engineer shall prepare for and attend one kick-off meeting to discuss project guidelines and present general project requirements and expectations.
    - 4.2. Maintain a Communication Tracking System (format to be approved by CRRMA).
    - 4.3. Coordinate with the CRRMA's GEC staff regularly throughout project development.
    - 4.4. Compile and maintain a comprehensive Administrative Record.
  5. Project Control/Scheduling
    - 5.1. Develop and maintain a Master Schedule for the Project indicating tasks/subtasks, critical dates, milestones, deliverables, and review requirements.
    - 5.2. Update and Schedule on a Monthly Basis.
    - 5.3. Include all CRRMA GEC, TXDOT and other 3rd Party Reviews in the Schedule.
  6. Subconsultant Management
    - 6.1. Develop and implement a plan to manage subconsultants (as part of the project management plan).
    - 6.2. Prepare subcontracts for subconsultant(s).
    - 6.3. Monitor subconsultant activities (staff and schedule).
    - 6.4. Review and recommend approval of subconsultant progress reports and invoices.

### Deliverables

- Project Management Plan
- Summaries of all meetings
- Administrative Record
- Project Schedule and monthly updates
- Subconsultant Contracts, Progress Reports and Invoices

## B. Surveying

All surveying shall comply with the Professional Land Surveying Practices Act, Article 5282c, Vernon's Texas Civil Statutes. All surveying shall comply with applicable rules promulgated by the Texas Board of Professional Land Surveying. The Manual of Practice published by the Society of Professional Surveyors shall be used as a guide in determining accuracy requirements and procedures to follow. The prime provider's field surveying efforts shall include the following:

1. Project Control
  - 1.1. Establish primary and secondary control monuments. The horizontal and vertical datum for the existing control monuments will be as follows:

## Tierra Este Rd. Project

- Horizontal – Horizontal datum will be referenced to the Texas State Plane Coordinate System, Central Zone 4203, NAD 83 and will be scaled to surface.
  - Vertical – Elevations will be referenced to the North American Vertical Datum of 1988 (NAVD88), GEOID 12B.
- 1.2. Verify and locate improvements. Establish monument of parcels.
  - 1.3. Establish up to six (6) control points along said portion of Tierra Este Road for use during construction.
2. Ground Survey
- 2.1. Perform a records search for all pertinent survey information, including Court House, GLO, private land, existing utilities and prepare a working sketch. Establish property ownership.
  - 2.2. The Engineer will provide a boundary and topographic improvements survey of the entire roadway corridor, and 200 feet beyond the proposed project limits and intersecting streets. Survey to extend 50 feet beyond the ROW each side of the corridor. Survey information beyond/outside the ROW will require permission from the impacted property Owner(s). Requests for access from private property owner(s) and surveys in private property will be the responsibility of the Engineer.
    - 2.2.1. A telephone order to Dig Tess will be placed to have the underground utilities marked (painted) on the surface. The survey will include tying any marks that are provided.
    - 2.2.2. The topographic survey will include tying all visible utility features to include the following: water valves; water meters; sanitary sewer manholes; storm sewer manholes; electrical manholes; power poles; light poles; overhead lines; electrical control panels; traffic signals; traffic signs; telephone manholes and pedestals; stem walls; chain link fences; rock walls; trees, etc.
    - 2.2.3. The survey will also include existing pavement, paint stripes, existing asphalt and concrete driveways, existing concrete sidewalks, ditches, stairs, steps, and existing concrete curb and gutter.
  - 2.3. Prepare the base map based on the proposed alignment and existing information.
  - 2.4. Metes and bounds descriptions of needed ROW parcels along Tierra Este Rd. Not included in this scope, will provide scope and Fee at later time when actual parcels are known.
  - 2.5. The Engineer will provide a boundary, topographic improvements survey for up to three (3) offsite ponding areas. The survey shall include the preparation of the base map, boundary survey, survey plats, and metes and bounds.
  - 2.6. The Engineer will provide a boundary, topographic improvements survey for up to 10 drainage, construction or temporary easements. The survey shall include the preparation of the base map, boundary survey, survey plats, and metes and bounds as necessary.
  - 2.7. Acquire permission for Right of Entry as necessary or other written evidence of permission before entering private property.
    - Draft ROE form and coordinate with property owners for signature.
    - Contact log preparation and submission of right of entry forms.

### Deliverables

- Final planimetric and topographic base map showing all mapped planimetrics and supplemental field survey data described above.
- Final Triangulated Irregular Network (TIN) file.
  - All electronic files shall be fully compatible with the State's MicroStation GeoPak system without further modification or conversion.
  - All MicroStation V8 2D and 3D files will be in U.S. survey feet.
- Parcel Plats for 3 basins.
- Contact log and executed right of entry forms.

### C. Right-of-Way Mapping

1. Perform a right-of-way survey.
  - 1.1. Conduct reconnaissance survey of existing improvements.
  - 1.2. Determine existing and proposed right-of-way limits, establish on the ground.
  - 1.3. Determine/locate easements, public roads, and utilities.
  - 1.4. Conduct reconnaissance of property corners & survey parent tracts.
  - 1.5. Determine property owners. The scope excludes any title commitment search required to determine exact ownership.
2. Prepare right of way map and property description for the project limits.
  - 2.1. Prepare ROW map sheets in surface coordinates.
  - 2.2. Prepare property descriptions and calculations.



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2.3. Prepare ROW map sheets for offsite ponding areas and easements.

**Deliverables**

- Complete right of way map and property descriptions throughout project corridor
- Complete right of way map and property descriptions for offsite ponding areas

**D. Geotechnical Investigations**

1. Subsurface Exploration and Testing.

1.1. Perform a geotechnical engineering investigation at the site of the project.

1.1.1. Conduct subsurface explorations and provide information needed for the design of a cost-effective pavement structural section for the proposed roadway improvements.

- Contact utility one call services to mark all existing utilities in the project corridor prior to starting work activities.

1.1.2. Implement traffic control as required to accomplish the exploratory drilling. Prepare and submit to the City/County for review and approval, necessary traffic control plans and permit forms.

1.1.3. Field Exploration will consist of the following:

Quantity	Depth (ft.)	Sampling	Location / Spacing
15	15	2.5' intervals to 10' 5' intervals from 10'	1,000 lineal feet along Tierra Este Rd.
3	40	2.5' intervals to 10' 5' intervals from 10'	Proposed ponding areas

1.1.4. Develop a laboratory soils testing program to perform moisture content (ASTM D 2216), dry unit weight (ASTM D 2937), percent passing the No. 200 sieve (ASTM D 1140), Atterberg limits determination (ASTM D 4318) and sieve analysis (ASTM D 6913) for each major soil type encountered. Utilize the index test to classify the recovered soils in accordance with the Unified Soils Classification System.

1.1.5. The borings shall be drilled in general accordance with standard procedures using a truck-mounted rotary-drilling rig utilizing hollow stem augers.

- The borings shall be logged in the field by a trained member of our geotechnical staff.
- If groundwater or water seepage is encountered immediately during our field activities, the depth shall be recorded.
- At the completion of our field operations, each boring shall be backfilled, surface compacted and patched, if necessary.

1.1.6. Standard Penetration Tests (SPTs), in accordance with ASTM procedures, shall be collected at discrete intervals to the maximum boring depths to estimate the relative field bearing capacity of the subsurface soils.

1.1.7. In conjunction with our penetration tests, soil samples shall be collected using conventional split-spoon sampling techniques or as required based on the encountered soil conditions.

1.1.8. All collected soil samples shall be properly identified with date, sample location, sample depth and penetration measurements. Representative portions of all obtained samples shall be sealed to prevent moisture loss and transported to our laboratory for further evaluation and laboratory engineering soil classification testing. Our laboratory tests shall be limited to soil moisture contents, plasticity index tests, sieve analysis tests, up to four (4) soil moisture-density relationship tests, up to two (2) soil sulfate tests, up to two (2) resistivity tests, up to two (2) soil pH tests, up to four (4) soil CBR tests performed in general accordance with applicable ASTM and TXDOT standards.

1.1.9. Perform a percolation test at ponding area site (up to 3 sites) at the anticipated depth of pond.

2. Geotechnical Design

2.1. Perform an engineering evaluation in general accordance with the AASHTO pavement design guide to determine pavement base and pavement thickness for both a flexible and a rigid pavement section.

2.1.1. Design criteria used in determining the pavement design(s), including traffic loads, pavement material characterization, environmental conditions, and pavement design life. Traffic data, projected traffic, 18- kip ESAL's, and anticipated traffic growth factors will be used for input into the FPS 21 pavement program design analysis.

2.1.2. The pavement design report will conclude with a recommended pavement design based on the data, analyses, and procedures included in the report. Other considerations used in developing the pavement

- design(s), including subgrade preparations and stabilization procedures. Pavement design details by location, including structural layer materials, general specifications, and layer thicknesses.
- 2.2. Coordinate design input and output values.
    - 2.2.1. Flexible pavement: FPS 21 summary, modified Texas Triaxial check, mechanistic checks, stress analysis, etc.
    - 2.2.2. Continuously Reinforced Concrete Pavement (CRCP): TxCRCP-ME design summary.
  - 2.3. As requested by owner, limited life-cycle cost analysis shall be performed utilizing FPS-21 for flexible pavements for a 30-year life period. Life cycle analysis shall be based on correlated subgrade strength data from CBR's and estimated values based on soil classification. A typical modulus value for asphaltic concrete shall be considered.
  - 2.4. Provide recommendations for underground storm water pipe bedding and backfill.
  - 2.5. Provide recommendations for illumination pole foundations, traffic signal mast arm foundations, and retaining wall structures, as necessary.
  - 2.6. Summarize results of the geotechnical engineering investigations in a written report.
  - 2.7. Perform a soil stability study for the ponding sites and incorporate into the report.

**Deliverables**

- Provide five (5) PE sealed and signed copies of report.
- Boring logs incorporated into the design set.

**E. Environmental Studies**

The Engineer shall perform tasks to complete technical environmental studies and advance the project through final NEPA approval. The Engineer shall prepare an EA and associated technical support documentation in accordance with the requirements of 23 CFR 771.119, FHWA T 6640.8A, TAC Title 43, Part 1, Chapter 2, TXDOT's Environmental Toolkits, and current TXDOT guidelines, policies, and procedures in effect as of the date of execution of this Agreement. The EA shall document the social, economic, and environmental conditions and potential impacts of the proposed project and shall contain sufficient detail to meet regulatory requirements for legal sufficiency and provide satisfactory basis for thorough review by the State, having received NEPA assignment from the Federal Highway Administration (FHWA) in December 2014, and (where applicable) agencies with regulatory oversight. All deliverables shall meet regulatory requirements for legal sufficiency. For each deliverable, the Engineer shall perform quality assurance quality control (QA/QC) reviews of environmental documents and on other supporting environmental documentation. In advance of preparing the EA, the Engineer shall submit a detailed annotated EA outline for TXDOT's approval. The EA shall include the following chapters/sections as applicable to the Project.

1. Need and Purpose
  - 1.1. The Engineer shall describe the proposed project and the transportation problem(s) or purpose and needs the proposed project is intended to address. This chapter shall also include the following:
  - 1.2. Description of the proposed project history, early coordination/planning, and a discussion about the proposed project's relationship to regional and/or statewide planning/transportation plans (logical termini and independent utility, linkage to system, capacity, and projected traffic/transportation demand).
  - 1.3. Description of bicycle and pedestrian accommodation considered, taking into consideration existing and anticipated bicycle and pedestrian facility systems and needs.
  - 1.4. Description of the planning process, including agency public involvement, and TXDOT and local transportation planning.
  - 1.5. Description of public involvement conducted for the project and plans for future public involvement, if any.
  - 1.6. Description of cost and project funding.
  - 1.7. Applicable regulatory requirements and required coordination.
  - 1.8. Discuss any right of way and all easements (existing and anticipated, permanent and temporary construction easements).
2. Alternatives
  - 2.1. The Engineer shall describe alternatives considered for detailed study. This chapter shall describe the process used to develop, evaluate, and eliminate potential alternatives based on the defined purpose and need of the project.
    - 2.1.1. A preferred alternative should be selected as a result of a rational screening process based on meeting project objectives, community and natural environmental impacts, cost, and other considerations, which should be explained in the EA. A matrix to compare the alternatives is recommended. The build alternative and the no-build alternative will be analyzed in the EA.
3. Affected Environment and Environmental Consequences
  - 3.1. The Engineer shall describe the existing human and natural environmental setting for the area affected by, and the

potential direct effects of, the proposed project. The description will be limited to data, information, issues, and values that will have a bearing on possible impacts and mitigation measures. Methods of analyses for resources and issues that will be addressed in the EA are provided herein.

4. Socioeconomic Impacts
  - 4.1. The Engineer shall identify and evaluate the social and economic impacts of the proposed project.
  - 4.2. The Engineer shall use appropriate data sources, such as the U. S. Census, windshield surveys, maps, and aerial photographs to determine the potential for social impacts. Potential social impacts to be documented include:
  - 4.3. Demographics (population, ethnic/racial distribution, income) based on the most recent census or projections there from.
  - 4.4. Other populations (disabled, elderly).
  - 4.5. Land uses in the project area (community services, schools, etc.).
  - 4.6. Mobility – pedestrian, bicycle, transit, cars.
  - 4.7. Safety (traffic and potential for crime).
  - 4.8. Other potential impacts identified in studies of social impacts.
  - 4.9. The Engineer shall identify the property owners and tenants adjacent to a roadway project.
  - 4.10. The Engineer shall identify all potential commercial and residential displacements.
  - 4.11. The Engineer shall identify potential replacement housing or other replacement sites.
  - 4.12. The Engineer shall identify the racial, ethnic and income level of affected individuals and communities, to determine any disproportionate impacts on any minority or low-income individuals or communities.
  - 4.13. The Engineer shall develop mitigation measures for social, economic and community impacts for the build alternative.
  - 4.14. The Engineer shall use public contact and public involvement to gather information from individuals and communities regarding social impacts of the proposed project.
  - 4.15. The Engineer shall estimate losses and gains to tax revenues due to the location of the proposed project.
  - 4.16. The Engineer shall evaluate travel modes and patterns in the study area, in order to determine any impacts, the proposed project may have on access to homes, businesses and community services. The Engineer shall use predictive models, observation, and/or public contact to determine travel modes and patterns.
  - 4.17. The Engineer shall identify and evaluate the potential for impacts to disabled and elderly individuals and populations. The Engineer shall use the U. S. Census and public contact to determine how the proposed project may impact these individuals and populations.
5. Land Use
  - 5.1. The Engineer shall develop a general description of the project area. The Engineer shall analyze the potential impacts that the alternatives under study may have on land uses within the study area. The analysis should quantify the acreage that would be converted to transportation use and address the conformance of the proposed project with local and regional plans and policies.
6. Environmental Justice
  - 6.1. In compliance with Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, conduct an environmental justice (EJ) analysis in accordance with the directives of FHWA Order 6640.23A (June 14, 2012) and US DOT Order 5610.2(a) (May 2, 2012). The analysis should also address the provisions and directives of Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency (LEP), and Executive Order 13045, Protection of Children from Environmental Health Risks and Safety Risks. Studies shall fulfill the requirements of Executive Order 12898. The purpose of the analysis is to determine if the project and the alternatives under study would have disproportionately high and adverse human health or environmental effects, including interrelated social and economic effects, on minority and low-income populations as defined in FHWA Order 6640.23A. The analysis shall include but not be limited to the following activities:
  - 6.2. Based on the latest available U.S. Census demographic data and U.S. Health and Human Services poverty data, identify EJ communities within the study area to determine the number and percent of low income and minority populations that could be affected by the proposed project. Supplement this information with input from local officials and stakeholders to further identify the distribution and concentration of minority and low-income populations that may be adversely affected.
  - 6.3. Determine if the project would have disproportionately high and adverse human health or environmental effects, including interrelated social and economic effects, on minority and low-income populations. Such effects to be qualitatively or quantitatively evaluated include:
    - 6.3.1. Location impacts of an upgraded or new facility or its components (e.g., roadway, interchange, toll plaza,

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- lighting, etc.) relative to location of EJ populations, which could have an actual or perceived adverse effect.
- 6.3.2. Associated user impacts where changes in the transportation network (e.g., road closures, new access roads, relief routes, etc.) impact the travel patterns and access of EJ populations or result in a greater increase in diverted traffic through or near EJ populations.
  - 6.3.3. The potential denial of benefits or disparate effects associated with being unable to access or make use of the upgraded or new facility (e.g., because of the cost of a toll or impeded access to the facility), thereby causing the EJ population to depend upon the use of a less efficient facility or route.
7. Airways-Highway Clearance
    - 7.1. The Engineer shall identify airports within 20,000 feet of the proposed project and discuss potential impacts from project implementation.
  8. Soils/Prime Farmland
    - 8.1. The Engineer shall identify the geological resources and soils types within the project area according to the Natural Resources Conservation Service (NRCS) mapping units and address compliance with the Farmland Protection Policy Act (FPPA).
  9. Beneficial Landscape Practices
    - 9.1. The Engineer shall address the Executive Memorandum related to Beneficial Landscape Practices.
  10. Invasive Species
    - 10.1. The Engineer shall address the Executive Order related to Invasive Species.
  11. Vegetation
    - 11.1. The Engineer shall categorize and evaluate the vegetation of the study area according to TXDOT's Memorandum of Agreement (MOA) and Memorandum of Understanding (MOU) with the Texas Parks and Wildlife Department (TPWD).
  12. Wildlife
    - 12.1. The Engineer shall identify wildlife habitat in the study area and address potential impacts on wildlife. Mitigation of potential impacts including habitat loss and fragmentation and construction in wildlife areas will also be addressed.
  13. Threatened and Endangered Species
    - 13.1. The Engineer shall obtain data from the United States Fish and Wildlife Service (USFWS) and the TPWD to determine the potential presence or absence of federally listed and proposed endangered or threatened species and critical habitat in the study area. No actual presence/absence species surveys are included in the scope and fee.
  14. Wetlands and Other Waters of the US
    - 14.1. The Engineer shall identify wetlands and potential jurisdictional waters of the US within the study area and evaluate potential impacts to these resources. If necessary, the Engineer shall conduct wetland delineation, as appropriate.
  15. Water Quality
    - 15.1. The Engineer shall obtain data from the water quality division of the Texas Commission on Environmental Quality (TCEQ) and the U.S. Environmental Protection Agency (EPA) regarding threatened or impaired waters or streams, principal or sole-source aquifers, and wellhead protection areas, and will document TXDOT's compliance with the Clean Water Act and Safe Drinking Water Act. Applicable requirements of, and compliance with, Section 404 of the Clean Water Act will also be documented.
  16. Floodplains
    - 16.1. The Engineer shall review National Flood Insurance Program (NFIP) maps to determine what portions of the study area are encumbered by the base (100-year) floodplain. Floodplain encroachment will be described, and mitigation measures will be discussed, as appropriate.
  17. Coastal Zone Management
    - 17.1. The Engineer shall evaluate the proposed project relative to the jurisdictional boundary of the Texas Coastal Management Program. (Not applicable)
  18. Archeological Resources
    - 18.1. The Engineer shall perform an archeological background study and archeological survey in accordance with the following specifications.
      - 18.1.1. The Engineer shall conduct a background study meeting TXDOT's Toolkit to include the following:
        - 18.1.1.1. The Engineer shall review site files at TARL and the Texas Historical Commission (THC) to determine whether previously recorded archeological sites are present within 1 kilometer of the project footprint. Review of the Texas Historic Sites Atlas shall be used for THC file review

- unless otherwise approved by TXDOT. If sites are present, the Engineer shall consult relevant site forms and archeological reports to provide a discussion of site types near the project corridor. The Engineer shall produce a clearly reproducible map, based on USGS 7.5' topographic maps, indicating areas where recorded archeological sites are present.
- 18.1.1.2. The Engineer shall review NRCS soil maps, BEG geological maps, planning documents, USGS topographic maps, and any other available environmental data (including existing hazardous materials assessments) to determine the general landscape characteristics of the study area to assess the potential for archeological sites. The Engineer shall produce a clearly reproducible map, based on USGS 7.5' topographic maps, indicating where areas where preservation of intact archeological deposits is likely/unlikely.
- 18.1.1.3. The Engineer shall produce a background study report that will describe the findings of the background studies, evaluate the potential for intact archeological deposits in the project area, provide recommendations about the proposed project's potential to affect eligible archeological sites, and make recommendations to TXDOT and the THC for archeological survey of the project area. This report will conform to TXDOT's Toolkit and will include the following information:
- a. Relevant descriptive information about the proposed project.
  - b. Description of the project APE, including vertical APE.
  - c. Description of relevant background information from site files, soil maps, planning documents, and geological maps.
  - d. Description of the project area and previous impacts, landscape characteristics, or other variables affecting the integrity of known or unknown archeological sites in the project area.
  - e. Description of all previously recorded archeological sites found within 1 kilometer of the project area and their NRHP and SAL eligibility Evaluation of the extent to which previous impacts, landscape characteristics, or other variables affecting the possibility of finding intact archeological deposits within the project area.
  - f. Assessment of whether an archeological survey is necessary, and if so, the locations where it should be performed.
  - g. The Engineer shall prepare the background study report and will submit document for approval.
- 18.2. The conduct of an Archeological Survey (Reconnaissance) shall conform to the current Toolkit for Archeological Survey Reports, available from the State. The Engineer shall undertake the following activities and demonstrate that these activities occurred by providing supporting data to the State.
- 18.2.1. Archeological surveys shall be performed for specific proposed transportation activities. Perform archeological surveys under a Texas Antiquities Permit issued by THC and signed by a State professional archeologist (TAC, Title 13, Part 2, Chapter 26).
- 18.2.2. Perform surveys, reporting, and documentation to satisfy the National Historic Preservation Act, Section 106 and Antiquities Code requirements for determining whether archeological sites are present in the project area, and whether test excavations or a higher level of archeological work is needed.
- 18.2.3. An archeological background study shall be performed prior to field work. If the Technical Expert has already performed an archeological background study or has been provided with a background study by the State, a new study will not be required.
- 18.2.4. Archeological Reconnaissance Surveys - The Engineer shall conduct a Reconnaissance Survey as defined in 13 TAC 26.5(57) and 13 TAC 26.20(1). The Engineer shall submit a permit application for a Texas Antiquities Permit and a report on the work conducted under the permit. Permit applications for the conduct of an Archeological Reconnaissance Survey shall follow the current Toolkit for Individual Antiquities Permit Applications, which is available from the State. The content for Archeological Reconnaissance Survey reports shall follow the current Toolkit for Archeological Survey Reports, which is available from the State. The draft and final report shall also fulfill the reporting requirements for the Texas Antiquities Permit.
- 18.2.5. Archeological Intensive Survey – NOT INCLUDED IN THIS SCOPE OF WORK The Engineer shall conduct an Intensive Survey as defined in 13 TAC 26.5(35) and 13 TAC 26.20(2). The Technical Expert shall submit a permit application for a Texas Antiquities Permit and a report on the work conducted under the permit. Permit applications for the conduct of an Archeological Intensive Survey shall follow the current

SOU for Individual Antiquities Permit Applications, which is available from the State. The content for Archeological Intensive Survey reports shall follow the current SOU for Archeological Survey Reports, which is available from the State. The draft and final report shall also fulfill the reporting requirements for the Texas Antiquities Permit.

19. Historic Resource Studies

- 19.1. The Engineer shall perform non-archeological historic-age resource studies related to compliance with Section 106 and Section 110 of the NHPA (36 CFR 800). Such studies may include, but are not limited to non-archeological historic-age resource surveys, research and documentation efforts leading to historic context statements, nominations to the National Register of Historic Places (NRHP), Historic American Buildings Survey (HABS) and Historic American Engineering Record (HAER) documents, and other mitigation activities such as creating, managing or updating inventories of historic-age properties. Identification, evaluation and documentation tasks shall be completed in accordance with the provisions of the Archeology and Preservation: Secretary of the Interior's Standards and Guidelines (48 FR Parts 44716 et seq. and requirements used by those of the National Park Service, and previously published in 36 CFR Part 61 (SOI Standards)).
- 19.2. The deliverables shall summarize the methods used for the historic resources studies and shall summarize the results achieved. Each historic resource study shall have a deliverable. The summary of results shall be sufficiently detailed to provide satisfactory basis for thorough review by the State, State Historic Preservation Office (SHPO), Texas Historical Commission (THC) and consulting parties. All deliverables shall be in sufficient detail to meet regulatory requirements for legal sufficiency. All deliverables shall be written to be understood by the public and must be in accordance with the TXDOT Toolkits.
- 19.3. Historic resource studies shall be performed and documented at sufficient levels to satisfy THC requirements for determining the presence of and documenting historically significant properties in the project Area of Potential Effects (APE) in accordance with 36 CFR 60 and 43 TAC, Part I, Chapter 2 and be State Toolkit compliant. Performance of non-archeological historic-age resource studies may include the following tasks as specified in a work authorization. Deliverables shall be transmitted in electronic and paper formats and meet the requirements set for in the State's Toolkits.
- 19.4. Project Coordination Request for Historic Studies (PCR)
  - 19.4.1. The Engineer shall prepare a PCR for TXDOT's review and approval, which will include recommendations for an APE and study area. The PCR will include database searches of the THC Historic Sites Atlas to identify previously documented properties and districts listed on the National Register of Historic Places (NRHP), National Historic Landmarks (NHLs), State Antiquities Landmarks (SALs), and Recorded Texas Historic Landmarks (RTHLs). All information will be presented in TxDOT's PCR form as required by current TxDOT policy at the time the work is undertaken.
- 19.5. Reconnaissance Survey for Non-Archeological Historic-Age Resources (NOT INCLUDED IN THIS SCOPE AND FEE)
  - 19.5.1. Prior to beginning the Reconnaissance Survey for Non-Archeological Historic-Age Resources, the Engineer shall conduct a literature review appropriate to the project area and its historic-age resources and prepare a research design for a reconnaissance survey for non-archeological historic-age resources. The research design shall provide a succinct summary of the literature review results including known historic resources and results of public involvement tasks, clear descriptions of identification, evaluation and documentation tasks required, and associated budget figures and production schedules. The Engineer shall submit an electronic format copy of the research design to the State. The State assumes responsibility for transmitting the research design to the THC, as applicable under the 2015 Programmatic Agreement among the FHWA, TXDOT, Texas State Historic Preservation Officer, and the Advisory Council on Historic Preservation Regarding the Implementation of Transportation Undertakings and transmitting THC comments to the Technical Expert. The Engineer shall revise the research design to reflect comments by the State and/or THC. The research design shall be revised pursuant to the State's errors and omissions policy.
  - 19.5.2. The Engineer shall conduct a reconnaissance survey conforming to the methodology outlined in the state and/or THC-approved research design. The reconnaissance survey shall not be implemented without prior approval of the research design by the State and/or THC. In addition, prior to reconnaissance survey, the technical expert shall ensure that efforts have been made by the appropriate project officials to obtain right-of-entry (ROE) to properties in the study area that have the potential for historic properties if applicable. Each historic-age resource (defined in accordance with 36 CFR 60 as a building, structure, object, historic district or non-archeological site at least 45 years old at the time of letting) in the APE shall

- be documented in the following manner.
- 19.5.3. The Engineer shall provide photographic documentation for each historic-age resource sufficient in number and perspective to satisfy State and THC documentation requirements, except under circumstances beyond the Engineer's control. At a minimum this shall include an oblique view with the primary façade and the subject filling the frame. Properties listed or preliminarily determined eligible for the NRHP shall require additional photographs to be taken, including photographs that show the relationship between the historic resource and the proposed project area. Properties with more than one historic-age resource shall also require additional photographs.
  - 19.5.4. The Engineer shall produce an inventory of all resources, provided in a table form that details their project ID numbers, locations and addresses, property type and subtype classifications, stylistic influences, construction dates, integrity issues and preliminary eligibility recommendations.
  - 19.5.5. The Engineer shall provide a technical report detailing the results of the reconnaissance survey. In the report the Engineer shall describe the findings of the reconnaissance survey, including preliminary assessments of direct, indirect and cumulative effects on historic properties, and make recommendations to the State for the need, if any, to conduct intensive survey efforts. The technical report shall have sufficient detail and clarity to provide THC with a basis for making determinations of NRHP eligibility without requiring submission of additional documentation or shall have sufficient detail and clarity to make recommendations concerning the scope of the intensive survey. The technical report should include an outline of the purpose and methodology of the project, a summary of the background history of project area, presenting historic contexts relevant to the time period associated with the historic-age resources in which to evaluate significance of resources for NRHP eligibility, and observations on patterns of settlement, development trends, resource distribution and analysis of survey data. All appropriate NEPA or federal regulatory language shall be included to provide sufficient clarity concerning eligibility determinations.
  - 19.5.6. The Engineer shall submit a hard copy and an electronic format copy of the technical report.
  - 19.5.7. The Engineer shall contact interested parties when applicable to determine local knowledge of historic resources in the project area.
- 19.6. Intensive Survey of Non-Archeological Historic-age Resources (NOT INCLUDED IN THIS SCOPE AND FEE)
- 19.6.1. The Engineer shall conduct an intensive survey in accord with the research design when applicable. The fee for completing an intensive survey is not included in the budget and would be developed under an amendment if it is determined to be necessary. Tasks associated with the intensive survey shall include:
    - 19.6.1.1. Completion of a Texas Historic Sites Inventory form or a THC-approved equivalent for each resource identified as potentially NRHP eligible in the reconnaissance survey. At a minimum, each inventory form will provide sufficient detail about the location, physical characteristics, character-defining details, modifications and other integrity issues, associated outbuildings or historic landscape features, contextual relationships and historic background of the resource to finalize determinations of NRHP eligibility in accordance with 36 CFR 60.
    - 19.6.1.2. Evaluation of each property identified as potentially NRHP eligible in the reconnaissance survey against NRHP criteria for significance and integrity in accordance with 36 CFR 60.
    - 19.6.1.3. The Engineer shall prepare a survey report detailing the results of the intensive survey. This report shall describe the findings of the intensive survey and make recommendations to the State for NRHP eligibility of all resources and final assessments of direct, indirect and cumulative effects on historic properties. The survey report shall have sufficient detail and clarity to provide THC with a basis for making determinations of NRHP eligibility without requiring submission of additional documentation.
    - 19.6.1.4. The Engineer shall revise the survey report to address comments by the State and THC at no additional cost to the State and may be required to integrate the findings into another environmental document. The Technical Expert shall submit a hard copy and an electronic format copy of the survey.
    - 19.6.1.5. The Engineer shall conduct tasks associated with public involvement, when appropriate, as part of the intensive survey conforming to the methodology outlined in the ENV-approved research design.
    - 19.6.1.6. The Engineer shall contact interested parties when applicable in order to determine local knowledge historic resources in the project area.

20. Noise

- 20.1. The Engineer shall conduct a traffic noise analysis of the build alternative in accordance with the current version of TXDOT's (FHWA approved) "Guidelines for Analysis and Abatement of Roadway Traffic Noise". The analysis may include but not be limited to the following activities:
  - 20.1.1. Identify noise sensitive land uses in the vicinity of the alternatives under study. Photo document representative receivers that might be impacted by highway traffic noise and may benefit from feasible and reasonable noise abatement.
  - 20.1.2. Determine existing and predicted noise levels, using FHWA's latest Traffic Noise Model (TNM) software program for a representative sample of noise sensitive receptors for the design year traffic conditions. Perform computer modeling of existing noise levels and predicted (future) noise levels using the latest FHWA approved model.
  - 20.1.3. Compare the predicted design year noise levels to the existing noise levels to assess the potential need for abatement in accordance with the FHWA noise abatement criteria and TXDOT's noise guidelines.
- 20.2. Propose noise abatement measures that are both feasible and reasonable.
- 20.3. Determine predicted (future) noise impact contours for transportation activities where there is adjacent undeveloped property where residential or commercial development is likely to occur in the near future.
- 20.4. The Engineer shall document the findings of the traffic noise analysis in the EA.

21. Air Quality

- 21.1. Prepare the air quality section in accord with the current version of the State's Air Quality Guidelines, Air Quality SOP, and Air Quality Toolkit. If the Air Quality SOP requires it, the document must contain the following air quality elements in the format prescribed in the TXDOT Air Quality Toolkit, provide the following information for nonattainment counties in the environmental document:
  - 21.1.1. A statement providing the name of the nonattainment area, details on the nonattainment pollutants and nonattainment classification of the county or counties where the project is located.
  - 21.1.2. A statement indicating if the project has been included in, and is consistent with, the current conforming metropolitan transportation plan (MTP). If it is not consistent with the MTP, contact the State for further instructions. Either bridging language will need to be used or the project will need to be revised.
- 21.2. A discussion of congestion management systems for the county or counties where the project is located and a list of committed projects to reduce traffic congestion in those counties.
- 21.3. This scope of work does not include a carbon monoxide Traffic Air Quality Analysis (TAQA), because traffic is not anticipated to exceed 140,000 vehicles per day (vpd).
- 21.4. Perform a Mobile Source Air Toxics (MSAT) analysis and provide documentation in accordance with the current version of the State's Air Quality Guidelines, Air Quality SOP, Air Quality Toolkit, and the 2009 memorandum from FHWA regarding Interim Guidance Updates on Air Toxic Analysis in NEPA Documents. Although traffic is not anticipated to exceed 140,000 vpd, public controversy may require a quantitative MSAT analysis. The following are required for a quantitative MSAT analysis:
  - 21.4.1. A conference call with the State's District, ENV, MPO with jurisdiction, FHWA and the Engineer's Technical Expert.
  - 21.4.2. The Engineer will take meeting minutes which will include the specifics for performing the quantitative MSAT analysis.
  - 21.4.3. The analysis will be performed as agreed upon in the conference call and follow the most recent State and FHWA guidelines.
- 21.5. Prepare a PM10 hotspot Project of Air Quality Concern form and prepare for and conduct Consultation Partner call to assess if the project is of air quality concern. It is anticipated that a PM 10 hotspot analysis will be needed, therefore, a PM 10 hotspot analysis is NOT INCLUDED IN THIS SCOPE OF WORK. If it is determined that a Hot Spot analysis are required, the fee would be developed under an amendment.
- 21.6. Complete air quality cumulative and indirect impacts analysis as specified in the Cumulative and Indirect Impacts Analysis section of this attachment and include a discussion of the analysis in the environmental document. Contact the State if further guidance is needed.
- 21.7. A statement of construction activities.
- 21.8. Respond to public comments received on air quality issues.

22. Section 4(f) Properties

- 22.1. The Engineer shall identify Section 4(f) properties in the study area in accordance with 49 USC 303. The properties identified shall include all property types listed in 23 C.F.R. 771.135 (49 USC 303). Coordination or compliance



- associated with the Section 4(f) impacts (including de minimis) may be required, but is NOT INCLUDED IN THIS SCOPE OF WORK. If it is determined that a de minimis, programmatic, or individual Section 4(f) assessment are required, the fee would be developed under an amendment.
- 22.2. The Engineer shall determine if Land and Water Conservation Fund Act funds were used for properties in accordance with the regulatory requirements and TPWD guidelines.
23. Hazardous Materials
- 23.1. The Engineer shall conduct an Initial Site Assessment (ISA) to determine if the alternatives under study have the potential to impact municipal, industrial, and hazardous waste sites and materials. The ISA shall determine the potential for encountering potentially contaminated and hazardous materials in the study area, including possible environmental liability, increased handling requirements (e.g., soil or groundwater), and potential construction worker health and safety issues.
- 23.2. The ISA will be of sufficient detail to satisfy TXDOT's Toolkit for Hazardous Materials Initial Site Assessments, available from TXDOT. The ISA shall involve the following activities:
- 23.2.1. Determine the appropriate project-specific level of inquiry for the ISA. Consider preliminary project design and ROW requirements, including project excavation requirements, anticipated ROW acquisition, and the demolition or modification of structures.
- 23.2.2. The completed ISA shall include, when applicable, full copies of list search reports, including maps depicting locations, copies of agency file information, photographs, recommendations, and any other supporting information gathered to complete the ISA.
- 23.2.3. Prepare the ISA in accordance with TXDOT's ISA Toolkit format.
- 23.2.4. Consolidate the following ISA information for inclusion in the EA, including any mitigation commitments:
- 23.2.4.1. A concise description of the scope of the ISA, including disclosure of any limitations of the assessment.
- 23.2.4.2. A concise summary of relevant information gathered during the ISA, including sufficient information to show that the study area for the alternatives under study was adequately investigated for known or potential hazardous material contamination. Include a summary of early coordination or consultation conducted with regulatory agencies, local entities or property owners.
- 23.2.4.3. A concise summary of the findings of the assessment for each alternative under study, including an assessment of the potential that an alternative would impact an identified site during construction as well as disclosure of known or suspected hazardous material contamination that is anticipated to be encountered during construction.
- 23.2.4.4. A discussion of any commitments recommended for performing further investigation of suspect areas, and justification for postponement of further investigation.
- 23.2.4.5. A summary of efforts to be employed by TXDOT to avoid or minimize involvement with known or suspected hazardous material sites during construction, and justification for not avoiding contaminated sites.
- 23.2.4.6. A discussion of any required or recommended special considerations, contingencies or provisions to handle known or suspected hazardous material contamination during ROW negotiation and acquisition, property management, design, and construction.
- 23.2.4.7. Should the findings of the ISA conclude that additional investigation, special considerations, or other commitments from TXDOT are required during future stages of project development, review those findings and commitments with TXDOT prior to completing the hazardous materials discussion for the environmental document.
24. Visual and Aesthetic Qualities
- 24.1. The Engineer shall provide a description of the visual quality of current conditions, including any unique visual or aesthetic qualities in the project area.
25. Permit Requirements
- 25.1. To the extent possible, the Engineer shall identify the need for permits for the proposed project.
26. Mitigation and Commitments
- 26.1. The Engineer shall summarize commitments that would be included as environmental permits issues and commitments and monitoring of commitments made with resource and regulatory agencies, as appropriate.
27. Construction Impacts
- 27.1. Potential adverse impacts associated with construction of the proposed project will be assessed.
28. Indirect and Cumulative Impacts

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- 28.1. The Engineer shall evaluate the indirect and cumulative impacts (ICI) of the proposed project using the latest processes, procedures, and guidance issued by TXDOT and supplemented by guidance issued by National Cooperative Highway Research Program (NCHRP).
29. Conclusion
  - 29.1. The Engineer shall identify discuss how the Build Alternative meets the project purpose and needs, explain the technical and economic considerations, and the rationale for selecting the Build Alternative.
30. EA Submittals
  - 30.1. EA Review/Revision
    - 30.1.1. The information gathered above will be compiled into a preliminary draft EA document. Each submittal listed below shall include one electronic copy of the EA (in PDF format), and a completed comment/response matrix after GEC, TXDOT and FHWA reviews. The Engineer shall provide the following:
    - 30.1.2. One copy of the preliminary draft EA document (V1) to the GEC for review. Upon receipt of comments, revisions will be made, and the additional information needed to complete the items will be incorporated into the preliminary draft EA (V2)
    - 30.1.3. One copy of the preliminary draft EA (V2) to TXDOT for review. Upon receipt of comments, revisions will be made, and the additional information needed to complete the items will be incorporated into the draft EA (V3).
    - 30.1.4. Ten copies of the draft EA (V3) will be prepared and provided to TXDOT for TXDOT-Environmental Affairs Division (ENV) review.
    - 30.1.5. After receiving comments from ENV, revise the draft EA and submit the revised draft to TXDOT for review (V4) (10 copies).
31. EA for Environmental Decision
  - 31.1. Based on the results of the public hearing and the comments received on the EA, the Engineer shall update the EA and associated technical support documentation, as appropriate. The Engineer shall address any TXDOT comments on the updates made to the EA. The Engineer shall submit the updated EA to TXDOT.
32. Decision Document
  - 32.1. The Engineer shall support TXDOT in the preparation and processing of the Finding of No Significant Impact (FONSI) for approval, if applicable. The Engineer shall prepare the Section 139(l) Statute of Limitations notice for processing and publication in the Federal Register, if applicable.

### Deliverables

- Archeological Background Study Report and Survey Report
- Species Analysis Spreadsheet and Form
- Tier 1 Site Assessment Form
- Community Impacts Assessment
- Surface Water Analysis
- Hazardous Materials ISA
- Air Quality Technical Reports (as specified above)
- Indirect and Cumulative Analysis
- Environmental Assessment Outline
- Environmental Assessment
- Historic Resources Project Coordination Request Form
- Environmental Assessment
- Decision Document/FONSI
- Updated EA
- Section 139(l) Statute of Limitations Notice

## F. Public Involvement Activities

1. Public Involvement Program. The Engineer shall implement the public involvement program to support the EA process in accordance with 23 CFR 771, 36 CFR 800 and TAC Title 43, Part 1, Chapter 2. The TXDOT Environmental Toolkit for Public Involvement shall be implemented in accordance to this scope of work.
  - 1.1. Preparation of Contact Mailing List and Database
    - 1.1.1. The Engineer shall compile and maintain a contact mailing list and database to include stakeholders, agencies and organization interested in the project.

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- 1.1.2. The Engineer shall prepare and maintain Federal and TXDOT Legislative District maps including Legislator contact information.
- 1.1.3. The Engineer shall provide responses of public comments per meeting/hearing submitted via the CRRMA website.
- 1.2. Agency Coordination (To be performed under the task I. Stakeholder Coordination, listed in this scope of work).
- 1.3. Public Meetings
  - 1.3.1. Schedule, conduct and attend public meetings (assume 1 meeting).
  - 1.3.2. Prepare public meeting materials including sign-in sheets, flyers, meeting notices, meeting posters, exhibits, comment form, welcome letter, display ad, legal notice, press release, posters, presentation, press kits, and other meeting materials.
  - 1.3.3. Coordinate preparation and review of public meeting materials (2 reviews).
  - 1.3.4. Arrange for facilities, translation of materials, cleanup, etc.
  - 1.3.5. Prepare and mail letters to interested parties and elected officials.
  - 1.3.6. Distribute public meeting notices (bilingual black and white) and post posters (bilingual color).
  - 1.3.7. Identify newspapers, prepare and coordinate public meeting notices –2 newspapers (English and Spanish) (bilingual display ad and legal notice) for local publication.
  - 1.3.8. Ensure receipt of tear-sheets from local newspapers, scan for file and process payments.
  - 1.3.9. Provide staff for public meeting.
  - 1.3.10. Schedule and make facility and equipment arrangements.
  - 1.3.11. Coordinate meeting facility set-up.
  - 1.3.12. Coordinate meeting logistics.
  - 1.3.13. Document the comments received and prepare responses.
  - 1.3.14. Prepare draft and final Public Meeting Summary Report.
- 1.4. Public Hearing
  - 1.4.1. The Engineer shall schedule, conduct and attend public hearing (assume 1 hearing).
  - 1.4.2. Prepare public hearing materials including sign-in sheets, flyers, meeting notices, meeting posters, exhibits, comment form, agenda, welcome letter, display ad, legal notice, press release, posters, script, presentation, press kits, and other meeting materials.
  - 1.4.3. The Engineer shall coordinate preparation and review of public hearing materials (2 reviews) with OPI.
  - 1.4.4. Arrange for facilities, translation of materials, court reporter, interpreter, security, cleanup, etc.
  - 1.4.5. The Engineer shall prepare and mail letters to interested parties and elected officials.
  - 1.4.6. Distribute public hearing notices (bilingual black and white) and post posters (bilingual color).
  - 1.4.7. The Engineer shall identify newspapers, prepare and coordinate public hearing notices - 2 newspapers (English and Spanish) (bilingual display ad and legal notice) for local publication.
  - 1.4.8. The Engineer shall ensure receipt of tear-sheets from local newspapers, scan for file and process payments.
  - 1.4.9. The Engineer shall provide staff for public hearing.
  - 1.4.10. The Engineer shall schedule and make facility and equipment arrangements.
  - 1.4.11. The Engineer shall coordinate meeting facility set-up.
  - 1.4.12. The Engineer shall coordinate meeting logistics.
  - 1.4.13. The Engineer shall generate transcripts.
  - 1.4.14. The Engineer shall coordinate Public Hearing Certification for incorporation in the Public Hearing Summary Report.
  - 1.4.15. The Engineer shall prepare draft and final Public Hearing Summary Report. Summarize and include all comments received on the EA during the comment period. All substantive comments must be addressed. Responses prepared to address all substantive comments made shall be included in the Public Hearing Summary Report.
  - 1.4.16. At the conclusion of the public involvement activities, the Engineer shall summarize the activities in the EA, including all agency and public coordination efforts, meeting dates, number of attendees, locations, common comments, and how public comments were addressed.

### Deliverables

- Project Mailing List Database
- Responses to Public Comments
- Agency Coordination Meeting Notes
- Newspaper advertisements and/or Legal Notices

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- Public Meeting Material
- Public Meeting Summary Report
- Public Hearing Material
- Public Hearing Summary Report and Analysis Report
- Public Hearing Transcript
- Public Involvement Summary for the EA

### G. Schematic Design

For the purpose of this scope of services, a proposed typical section of a six-lane divided section in 120-foot ROW will be used. The Engineer will develop the Design Schematic to include, but not be limited to, the following items:

1. Data Collection
  - 1.1. Photographic Record
    - 1.1.1. Collect relevant data along the corridor.
    - 1.1.2. Document any Landmarks along Existing Corridor.
    - 1.1.3. Prepare photos and aerial imaging.
  - 1.2. Traffic and Transportation Data
    - 1.2.1. Acquire regional transportation and mobility studies, environmental, planning and land use, and feasibility studies.
    - 1.2.2. El Paso MPO Travel Demand Model
    - 1.2.3. Collect 24 hour classification counts at about 20 locations along Tierra Este Road, N. Zaragoza Road, Sun Fire Boulevard, Montwood Drive, Windermere Avenue, Vista Del Sol Drive, Pellicano Drive, and Mission Ridge Boulevard. Collect 4 hours of turning movement counts at about 20 locations along the intersections within the study area. The exact count locations will be finalized after the traffic projections methodology has been approved.
    - 1.2.4. Prepare Traffic Projections for opening and future (+20) years, and pavement design year (future+10).
      - 1.2.4.1. Collect historical traffic data.
      - 1.2.4.2. Calculate historical growth factor.
      - 1.2.4.3. Calculate corridor future growth factor based on Travel Demand Model.
      - 1.2.4.4. Adjust corridor growth factor.
      - 1.2.4.5. Traffic Projection Methodology Technical Memorandum.
      - 1.2.4.6. Develop corridor daily and peak hour projected volumes (for no-build and one build scenarios).
        - 1.2.4.6.1 Develop corridor daily projected volumes.
        - 1.2.4.6.2 Develop corridor peak hour projected volumes.
      - 1.2.4.7. Develop stick diagrams of projected volumes.
      - 1.2.4.8. Traffic Projections Memorandum.
  - 1.3. Municipality Reports/Developments
    - 1.3.1. Acquire Documents for proposed developments along proposed route.
    - 1.3.2. Illumination standards from appropriate agency.
    - 1.3.3. Traffic signal standards from appropriate agency.
    - 1.3.4. Traffic signal as-builds.
2. Submit design criteria to be used in the design of the Project for approval by CRRMA prior to beginning schematic design work. Preliminary Design criteria shall include, but not limited to, the following roadway elements: facility type, design speed, acceptable level of service, horizontal criteria, stopping sight distance, maximum curvature, and maximum super-elevation rates, vertical criteria, minimum and maximum gradient, K-values, and vertical clearances, cross section criteria, lane widths, shoulder widths, pavement cross slope and maximum side slopes, intersection horizontal and vertical criteria including corner radii, and design vehicle turning movements.
3. Complete Roadway Design efforts required to develop roadway elements of the Project, including the preparation of proposed drainage structures, horizontal geometric designs, and vertical geometric designs for all main lanes, frontage road lanes, ramps, crossroads, and construction sequencing plan narrative and typical sections.
4. Design Schematic. The Design Schematic shall show, as a minimum:
  - 4.1. Typical sections of all improvements including widened or new drainage structures.
  - 4.2. Roadway plan and profile and super elevation.

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- 4.3. Location and text of proposed guide signs.
- 4.4. Lane lines and arrows indicating the number of lanes
- 4.5. ROW limits:
  - Provide design cross-sections to verify ROW requirements
  - Show existing and proposed ROW limits
  - Show existing (if any) and proposed easements
  - Show the proposed toe of slope
- 4.6. Retaining wall(s) limits (if any Needed)
- 4.7. Roadway lighting locations
  - 4.7.1. Prepare Illumination Warrant study.
- 4.8. Geometrics, such as pavement cross slopes, lane widths, slope rates (for fills and cuts) of the typical sections of proposed lanes, and crossroads, shown in plan view and cross sections.
- 4.9. Existing and Proposed Drainage Structures, offsite ponding areas
- 4.10. Preliminary traffic control and sequence of construction plan
- 4.11. Proposed signing and striping layout
5. Other Items to support the engineering design effort
  - 5.1. Develop Engineer's Opinion of Probable Construction Cost.
  - 5.2. Prepare drainage analysis and maps of the existing and proposed drainage systems.
  - 5.3. Develop initial aesthetic (walls, sign supports, light fixtures, etc.) and landscaping enhancements.
  - 5.4. Develop Preliminary Engineering Report.
  - 5.5. Traffic analysis and conceptual intersection type recommendation at up to two intersections.
  - 5.6. Corridor microscopic traffic simulation and basic 3D animation (for no-build and one future build scenario)
    - 5.6.1 Extract and summarize measures of effectiveness such as intersection level of service.
  - 5.7. Prepare the traffic analysis report.
  - 5.8. Prepare PM10 traffic input data.
  - 5.9. New Traffic signal design and analysis at up to two intersections.
  - 5.10. Develop landscape architectural aesthetic considerations for both pedestrian bike, and vehicular traffic.
  - 5.11. Perform a preliminary review for ADA compliance.
  - 5.12. Present reports and findings to CRRMA GEC..
  - 5.13. Work cooperatively and collaboratively with other governmental agencies and design consultant firms responsible for adjacent projects.

### Deliverables

- Design Summary Report (DSR)
- Preliminary (30, 60, 90 and 100 percent) Design Schematic
- Opinion of Probable Construction Cost for all phased Design Schematic submittals
- GeoPak and MicroStation .DGN files for Design Schematic
- Technical memorandum on traffic projections methodology, traffic analysis. illumination warrant analysis, drainage analysis, and aesthetics
- Stick diagrams on projected traffic volumes

## H. Drainage Study

1. Perform a drainage study of the project watershed including offsite drainage areas and structures affecting the project.
  - 1.1. Determine the drainage requirements for the project.
    - 1.1.1. The study will consider the location of retention ponding areas for storing runoff from the project.
    - 1.1.2. The study will identify any right of way requirements for locating and constructing new ponding areas and/or other drainage appurtenances required for the project.
2. Coordinate with the County of El Paso, TXDOT, and adjoining developers/property owners to check that all proposed drainage systems accommodate the proposed construction and historical flows.
3. Drain analysis will be performed using Bentley StormCad. The analysis will be provided in a drainage report including:
  - 3.1. Watershed areas.
  - 3.2. Storm drain trunk line alignment for storm drain systems.
  - 3.3. Determine inlets, manholes and junction boxes types for analysis.
  - 3.4. Identify pipe strength requirements.
  - 3.5. Identify potential utility conflicts and design around them, wherever possible.
  - 3.6. Take into consideration drainage impacts to pedestrian facilities, utilities, and driveways.

### Deliverables

- Three copies of the bound Drainage Study report.

### I. Stakeholder Coordination

1. The Engineer will be responsible for implementing any stakeholder involvement as requested. Services will include identifying stakeholders affected by the project and coordination of meetings to establish a proactive involvement process during the Project development. The stakeholder involvement activities sought under this scope of services, include, but are not limited to the following:
  - 1.1. Identify stakeholders.
  - 1.2. Facilitate meetings.
  - 1.3. Produce graphic materials to promote and educate stakeholders about the project.
  - 1.4. Monitor and review comments received.
  - 1.5. Prepare exhibits/displays for Meetings.
  - 1.6. Prepare Meeting Summary, including a response to comments received.

### Deliverables

- Meeting Material
- Meeting Summary

### J. Plans, Specifications and Estimates (PS&E)

1. As necessary, update traffic data, right of way maps, and other information from previous projects and other activities.
2. Design Summary Report
  - 2.1. Update TXDOT supporting forms at every phase (DSR, 1002, 2229, 2443, etc.).
  - 2.2. Hold a Design Conference to review parameters, concepts and criteria established during the schematic phase.
3. Initial design
  - 3.1. Develop traffic control plan/detour plans.
  - 3.2. Coordinate approval of pavement design.
4. Utility Conflict Analysis
  - 4.1. Minimization of utility conflicts with the proposed design.
  - 4.2. Develop utility layout plan - Identify locations for Utility test holes (Potholes not include ion this scope).
  - 4.3. Develop utility relocation schedule.
5. Roadway Design
  - 5.1. Design final vertical and horizontal alignments
  - 5.2. Develop cross-section and earthwork volumes
  - 5.3. Detail design elements throughout project including traffic signal design and modifications, illumination, driveway access, bicycle and pedestrian facilities, landscape, and miscellaneous details
    - 5.3.1. Traffic Signal modifications for up to one existing intersections for inclusion of APS, timing, phasing and striping improvements, etc. to accommodate turning movements and a six-lane road.
      - 5.3.1.1. Follow the Texas Manual on Uniform Traffic Control Devices and maintaining agency standards.
      - 5.3.1.2. Develop traffic signal modification plans showing types and locations of proposed signal poles, pedestrian poles, signal heads, electrical service, signal cabinet, electrical pull boxes, conduit locations, vehicle detection, communication equipment, and roadway improvements.
      - 5.3.1.3. Develop signal conduit chart and electrical wiring details for Signals.
      - 5.3.1.4. Develop signal phasing and signs – The Engineer will coordinate with the maintaining agency to determine appropriate signal phasing.
      - 5.3.1.5. Develop pedestrian access details.
      - 5.3.1.6. Perform electrical calculations and determine the required conduit, conductor, and breaker sizes.
      - 5.3.1.7. Identify electrical service location with El Paso Electric Company, as needed.
      - 5.3.1.8. Provide new traffic signal loads to El Paso Electric Company, as needed.
      - 5.3.1.9. Develop general notes, signal plan sheets, and sheets consisting of the conductor/conduit schedule.
      - 5.3.1.10. Tabulate signal quantities and provide summary sheets.
    - 5.3.2. Temporary traffic signal plans for up to one existing intersections.
      - 5.3.2.1. Follow the Texas Manual on Uniform Traffic Control Devices and maintaining agency standards.

- 5.3.2.2. Develop temporary traffic signal plans showing types and locations of proposed signal poles, pedestrian poles, signal heads, electrical service, signal cabinet, electrical pull boxes, conduit locations, vehicle detection, communication equipment, and roadway improvements.
- 5.3.2.3. Develop signal conduit chart and electrical wiring details.
- 5.3.2.4. Perform electrical calculations and determine the required conduit, conductor, and breaker sizes.
- 5.3.2.5. Identify electrical service location with El Paso Electric Company, as needed.
- 5.3.2.6. Provide new traffic signal loads to El Paso Electric Company, as needed.
- 5.3.2.7. Develop general notes, signal plan sheets, and sheets consisting of the conductor/conduit schedule.
- 5.3.2.8. Tabulate temporary signal quantities and provide summary sheets.
- 5.3.3. Traffic signal plans for up to three new intersections.
  - 5.3.3.1. Follow the Texas Manual on Uniform Traffic Control Devices and maintaining agency standards.
  - 5.3.3.2. Develop traffic signal plans showing types and locations of proposed signal poles, pedestrian poles, signal heads, electrical service, signal cabinet, electrical pull boxes, conduit locations, vehicle detection, communication equipment, and roadway improvements.
  - 5.3.3.3. Develop signal conduit chart and electrical wiring details.
  - 5.3.3.4. Perform electrical calculations and determine the required conduit, conductor, and breaker sizes.
  - 5.3.3.5. Identify electrical service location with El Paso Electric Company, as needed.
  - 5.3.3.6. Provide new traffic signal loads to El Paso Electric Company, as needed.
  - 5.3.3.7. Develop general notes, signal plan sheets, and sheets consisting of the conductor/conduit schedule.
  - 5.3.3.8. Tabulate signal quantities and provide summary sheets.
- 5.3.4. Permanent Illumination
  - 5.3.4.1. Illumination to be developed based on results of the Warrant Analysis, or as directed by the County.
  - 5.3.4.2. Streetlight plans showing types and locations of light poles, ground boxes, electrical service and conduit.
  - 5.3.4.3. Perform electrical calculations using standard County light poles and determine the required conduit, conductor, and breaker sizes.
  - 5.3.4.4. Identify electrical service location with El Paso Electric Company.
  - 5.3.4.5. Provide new lighting loads to El Paso Electric Company.
  - 5.3.4.6. Develop general notes, lighting plan sheets, and sheets consisting of the luminaire and conductor/conduit schedule.
  - 5.3.4.7. Tabulate lighting quantities and provide summary sheets.
- 5.3.5. Driveway access at existing facilities.
  - 5.3.5.1. Including transitions/modifications to existing streets.
- 5.3.6. Bicycle and pedestrian facilities.
- 5.3.7. Landscape Design
  - 5.3.7.1. Develop landscape design in accordance with visibility and safety requirements
  - 5.3.7.2. Develop water harvesting opportunities for the benefit of plant material
  - 5.3.7.3. Produce recommendations for an appropriate plant palette that is colorful, balanced in seasonal color as well as rabbit resistant
  - 5.3.7.4. Provide exhibits with landscape architectural design that allows owner and client to clearly visualize plant species and general landscape design.
  - 5.3.7.5. Allow for median and parkway focal points that are appropriate of the region's landscape as well as inclusive of low-water use plant material.
- 5.3.8. Irrigation system design that is full automatic and water- smart; and producing water savings.
- 5.3.9. Develop miscellaneous design details required for non-standard design elements.
- 5.4. Submit design exceptions/waivers as required on project.

**Deliverables**

- QC redlines at (30, 60, and 90 percent) design reviews
- Final drainage report
- Specification list, general notes, special provisions, specifications, special specifications.

## Tierra Este Rd. Project

6. Operational design
  - 6.1. Develop signing and pavement marking plans.
7. Drainage Design.
  - 7.1. Develop retention pond design.
  - 7.2. Prepare retention pond details.
  - 7.3. Develop design, plan and profile for storm drains.
  - 7.4. Prepare culvert and storm drain details.
  - 7.5. Design final vertical and horizontal alignments for storm drains.
  - 7.6. Prepare Overall Drainage Area Map
  - 7.7. Prepare Roadway System Drainage Area Maps
  - 7.8. Prepare Roadway System Drainage Area Calculation Sheets
  - 7.9. Prepare Storm Sewer Pipe Computations
  - 7.10. Prepare Inlet Computations
  - 7.11. Prepare Culvert Hydraulic Computations
  - 7.12. Prepare plan/profile sheets for storm drain systems and outfall ditches
  - 7.13. Prepare Drainage Basin Layout Sheets (2 Basins)
  - 7.14. Prepare Drainage Basin Calculation Sheets - 2 Basins
  - 7.15. Select standard details from County or TxDOT
  - 7.16. Prepare Miscellaneous Drainage Details
8. Traffic Control
  - 8.1. Attend up to two meetings to present and discuss the proposed construction sequence and traffic control plans for the project (TXDOT Safety Review).
  - 8.2. Prepare traffic control drawings including line diagrams; detour plans; TCP; general note guidelines for contractor to follow; TCP details/standards.
  - 8.3. Prepare presentation material for Safety Review meetings, including plan layout and PowerPoint, as necessary.
  - 8.4. Compile TCP Details/Standards using available TXDOT Standards.
9. Storm Water Pollution Prevention Plan (SW3P)
  - 9.1. Prepare SW3P Narrative.
  - 9.2. Prepare Storm Water Pollution Prevention Plans.
  - 9.3. Develop EPIC sheet.
  - 9.4. Final assembly of PS&E Package and supporting documents
  - 9.5. Complete final construction plans.
  - 9.6. Develop standard and special specifications.
  - 9.7. Develop special provisions.
  - 9.8. Develop Opinion of Probable Construction Cost.
  - 9.9. Develop construction time estimate.
  - 9.10. Develop bid document package.
  - 9.11. Support CRRMA's develop of project agreements related to the project.
10. Final Assembly of PS&E Package
  - 10.1 Complete final construction plans
    - Prepare Title Sheet
    - Prepare Index of Sheets
    - Prepare Project Layout
    - Prepare Final Existing Typical Sections
    - Prepare Final Proposed Typical Sections
    - Prepare General Notes and specification data sheet
    - Prepare E & Q Plan Sheet
    - Prepare Summary Sheets
  - 10.2 Develop cost estimate
  - 10.3 Develop construction time estimate
11. ADA Compliance Services
  - 11.1. Engineer will perform plan review and inspections for ADA, T.A.S, and Texas Department of Licensing and Regulation requirements.
12. Submit design documents at project milestones (30, 60, 90 and 100%) to all entities with jurisdiction over approval of the project. Coordinate reviews, gather/ address comments received from those entities



## Tierra Este Rd. Project

### Deliverables

- 30, 60, 90, 100% Submittals: The Engineer will prepare and provide three (3) reproducible copies of the 30, 60, 90, 100% Design documents and corresponding electronic (pdf) files
- Specification list
- QC redlines at (30, 60, and 90 percent) design reviews
- Address comments at 30, 60, and 90% submittal.
- Final drainage report
- Final approved design exceptions/waivers
- Construction estimate at 30, 60, and 90% .
- Specification list, general notes, special provisions, specifications, special specifications
- Final Opinion of Probable Construction Cost (100% Submittal).
- Final construction schedule time estimate (100% Submittal).
- Final signed and sealed construction plans (100% Submittal).
- Bid document package (100% Submittal).

### **K. Utility Coordination**

#### 1. Utility Coordination

- 1.1. Develop listing of utility companies with contact information.
- 1.2. Conduct a records research and acquisition of available as-built utility records. This information will be placed on the base map and provided to all utility companies.
- 1.3. Conduct utility coordination meetings to review record drawings and proposed improvements with affected utility owners individually at each phase submittal.
- 1.4. Provide base map information to all utility companies at each submittal phase.
- 1.5. Coordination with utilities to obtain their relocation plans. Prepare and issue minutes for each meeting.
- 1.6. Develop a Utility Conflict Matrix to track utility issues and proposed resolutions.
- 1.7. Review relocation plans and incorporate into Utility Conflict Matrix.
- 1.8. Assist County in obtaining clearance letters and provide copies of documentation to the CRRMA at the Final submittal phase. Utilities can request that their new service lines be included as part of the bid package, provided that the utility company signs an agreement with the CRRMA, and funding is provided.
- 1.9. Coordinate with utility companies requesting that relocation of their facilities be part of the project construction. No design services for the utility companies is included in this scope.

**Note \*\*\*** Level A Utility coordination is NOT included in the scope of this Work Authorization. This task will be revisited later in the development of the project when the scope of Level A is clearly defined.

### **L. Land Acquisition**

**(THIS TASK IS NOT INLCLUDED IN THE SCOPE OF WORK OF THIS WORK AUTHORIZATION. THIS TASK WILL BE REVISITED LATER IN THE PROJECT DEVELOPMENT WHEN THE SCOPE OF ACQUISITION IS CLEAR)**

### **M. Bid Phase Services**

#### 1. Bid Development

- 1.1. Assist County/GEC in preparing for Bids.
- 1.2. Develop bid proposal and assist with TXDOT front end documents.
- 1.3. Prepare any addenda to drawings or specifications.
- 1.4. Attend the Pre-Bid Conference.
- 1.5. Assist County/GEC in responding to Contractor Questions.

#### 2. Bid Award

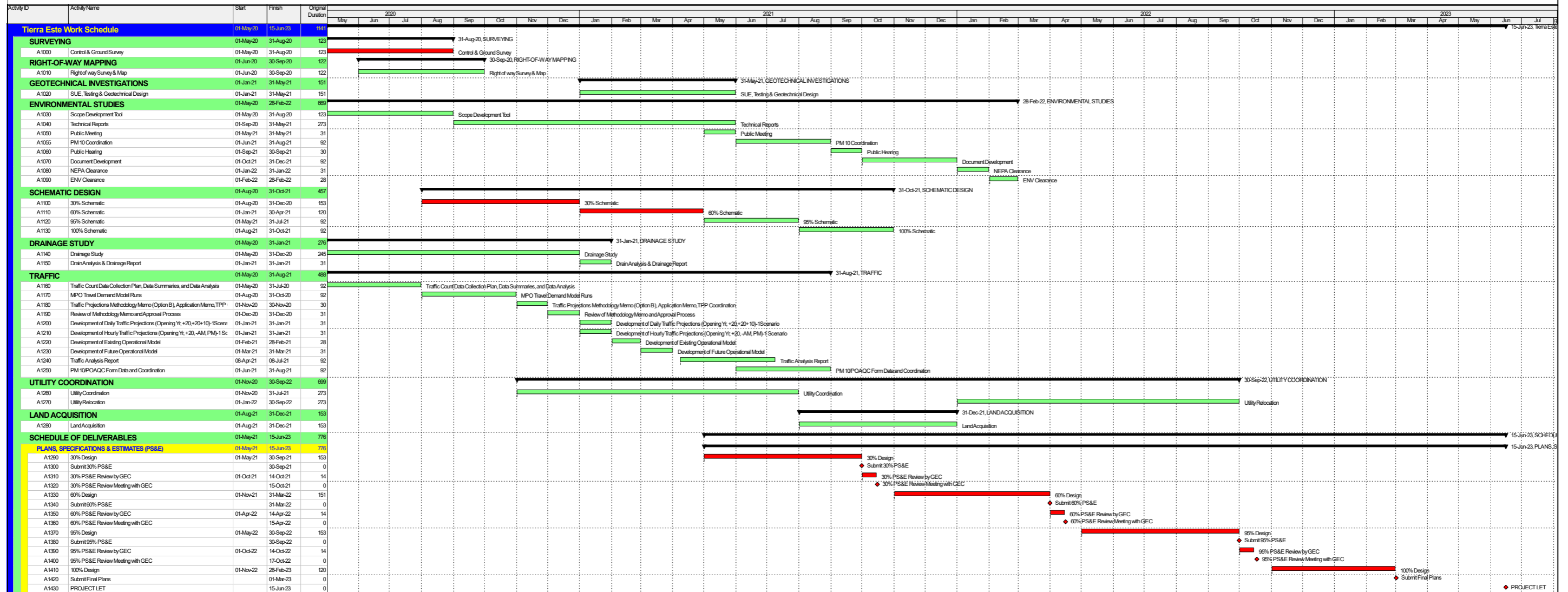
- 2.1. Assist County/GEC in evaluating bids received.
- 2.2. Provide letter recommendation for award.
- 2.3. Update TXDOT Project Checklist.

## **Exhibit C**

### **WORK SCHEDULE**

# Exhibit C WORK SCHEDULE

## TIERRA ESTE WORK SCHEDULE



## **Exhibit D**

### **FEE SCHEDULE**

**Exhibit D  
FEE SCHEDULE**

**Dannenbaum Engineering Company - El Paso, LLC  
PROJECT: Tierra Este Rd. Extension**

Task	TOTALS	Dannenbaum Engineering Company - El Paso, LLC	Blanton & Associates, Inc. S1	C & M Associates, Inc. S2	Cobb, Fendley & Associates, Inc., S3	GRV Integrated Engineering Solutions, LLC, S4	Poznecki-Camarillo, Inc., S5	Sites Southwest, LLC., S6	Vickrey & Associates, Inc., S7	Villaverde Inc., S8	Wood Environmental & Infrastructure Solutions, Inc., S9
<b>A. Project Management</b>	\$322,519.11	\$297,583.04		\$24,936.07							
<b>B. Surveying (VICKREY)</b>	\$58,195.41	\$0.00							\$58,195.41		
<b>C. Right-of-Way Mapping (VICKREY)</b>	\$92,271.30	\$0.00							\$92,271.30		
<b>D. Geotechnical Investigations (Wood Env.)</b>	\$25,064.76	\$0.00									\$25,064.76
<b>E. Environmental Studies (PCI / Blanton)</b>	\$237,846.91	\$0.00	\$134,352.34				\$103,494.57				
<b>F. Public Involvement Activities (PCI / DEC Assist)</b>	\$104,509.56	\$70,368.84					\$34,140.72				
<b>G. Schematic Design</b>	\$543,837.23	\$319,133.16		\$153,061.74				\$29,461.95		\$42,180.39	
<b>H. Drainage Study</b>	\$116,945.04	\$116,945.04									
<b>I. Stakeholder Coordination (PCI/DEC)</b>	\$37,804.31	\$8,141.26					\$29,663.06				
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>	\$1,293,762.22	\$966,085.24			\$38,599.11	\$52,398.60		\$99,900.64		\$136,778.63	
<b>K. Utility Coordination (Cobb Fendley)</b>	\$60,229.14	\$0.00			\$60,229.14						
<b>L. Land Acquisition (DEC)</b>	\$0.00	\$0.00									
<b>M. Bid Phase Services</b>	\$20,523.09	\$20,523.09									
<b>Sub Totals</b>	\$2,913,508.09	\$1,798,779.67	\$134,352.34	\$177,997.81	\$98,828.25	\$52,398.60	\$167,298.35	\$129,362.59	\$150,466.71	\$178,959.01	\$25,064.76
<b>Direct Expenses</b>	\$175,731.15	\$32,830.00	\$18,210.00	\$27,463.50	\$15,606.50	\$2,398.00	\$37,905.00	\$4,938.00	\$18,729.35	\$0.00	\$17,650.80
<b>Totals</b>		\$1,831,609.67	\$152,562.34	\$205,461.31	\$114,434.75	\$54,796.60	\$205,203.35	\$134,300.59	\$169,196.06	\$178,959.01	\$42,715.56
<b>Grand Total</b>	\$3,089,239.24	<b>\$3,089,239.24</b>									
Participation Percentage		59.29%	4.94%	6.65%	3.70%	1.77%	6.64%	4.35%	5.48%	5.79%	1.38%
Total DBE Percentage: 26.34%											
DBE		N	N	Y	N	Y	Y	N	Y	Y	N
% of Construction:		6.63%	0.55%	0.74%	0.41%	0.20%	0.74%	0.49%	0.61%	0.65%	0.15%

**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Deputy Project Manager	Senior Engineer	Project Engineer	Design Engineer	EIT	Quality Manager	Senior Engineering Technician	Senior CADD Operator	Construction Manager	Admin Assistant 3	Public Outreach Manager	TOTAL LABOR HOURS	% of CONST	TOTAL LABOR COST
<b>A. Project Management</b>														1334	1.08%	\$ 297,583.04
1. Project Management/Work Plan														84		\$ 17,470.60
1.1 Develop a Project Management/Work Plan	4	15			40							5	20	84		\$ 17,470.60
<b>2. Progress Reporting</b>														159		\$ 35,537.66
2.1 Prepare and Submit Monthly Progress Reports for CRRMA																
2.1.1 Activities Completed		8			15							2		25		\$ 6,085.83
2.1.2 Initiated and Ongoing Activities		8			15							2		25		\$ 6,085.83
2.1.3 Planned Activities		8			15							4		27		\$ 6,250.73
2.1.4 Problems Encountered/Problem Remedies		8			20							4		32		\$ 7,328.89
2.1.5 Overall Status including Tabulation of Percentage Complete by Task		8			10							4		22		\$ 5,172.57
2.1.6 Updated Project Schedule		8								20				28		\$ 4,613.81
<b>3. Prepare and Submit Invoices</b>														127		\$ 25,820.47
3.1.1 Financial and DBE Participation		5			4							10		19		\$ 3,366.03
3.1.2 Hours Worked by Individual		2			18									20		\$ 4,552.99
3.1.3 Hourly Rate		2			18									20		\$ 4,552.99
3.1.4 Monthly Invoice Amount as Compared to Baseline Monthly Estimate		2			16							10		28		\$ 4,946.19
3.1.5 Monthly Cumulative Invoice Amount as Compared to Baseline Monthly Cumulative Estimate	8	2			18							12		40		\$ 8,402.27
<b>4. Coordination/Administration</b>														277		\$ 68,183.22
4.1 Prepare and Attend One (1) Kick-off Meeting (Project guidelines, general project requirement and expectations)		20			12							3	7	42		\$ 10,239.18
4.2 Maintain a Communication Tracking System (format to be approved by CRRMA)		20			16									36		\$ 10,166.27
4.3 Coordinate with CRRMA GEC Staff		40			80								10	130		\$ 31,665.87
4.4 Compile and Maintain a Comprehensive Administrative Record		30			20							9	10	69		\$ 16,111.90
<b>5. Project Control/Scheduling</b>														275		\$ 60,250.44
5.1 Develop and Maintain a Master Schedule	4	30			22					55				111		\$ 21,548.30
5.2 Update and Schedule on a Monthly Basis		18			22					40				80		\$ 14,643.13
5.3 Include all CRRMA GEC, TxDOT and other 3rd Party Reviews in the Schedule		48			22	14								84		\$ 24,059.01
<b>6. Subconsultant Management</b>														313		\$ 73,570.23
6.1 Develop and Implement Plan to Manage Subconsultants (Part of Project Management Plan)	8	60			27								15	110		\$ 30,304.96
6.2 Prepare Subcontracts / WA's / SWA's for Subconsultants		10										50		60		\$ 7,480.41
6.3 Monitor Subconsultant Activities (staff and schedule)		30			23							14		67		\$ 16,188.02
6.4 Review and Recommend Approval of Subconsultant Progress Reports and Invoices		40			24							12		76		\$ 19,596.84
<b>Deliverables</b>														99		\$ 16,750.43
Project Management Plan	4	4			8								15	31		\$ 5,972.76
Summaries of all Meetings		4			8							10		22		\$ 3,892.75
Administrative Record		4										10		14		\$ 2,167.70
Subconsultant Contracts, Progress Reports and Invoices		4			8							20		32		\$ 4,717.22
<b>HOURS SUB-TOTALS</b>	<b>28</b>	<b>438</b>	<b>0</b>	<b>0</b>	<b>481</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>181</b>	<b>77</b>	<b>1334</b>		
<b>CONTRACT RATE PER HOUR</b>	<b>\$357.49</b>	<b>\$335.81</b>	<b>\$272.70</b>	<b>\$234.63</b>	<b>\$215.63</b>	<b>\$228.31</b>	<b>\$101.48</b>	<b>\$151.91</b>	<b>\$111.92</b>	<b>\$96.37</b>	<b>\$228.31</b>	<b>\$82.45</b>	<b>\$98.30</b>			
<b>TOTAL LABOR COSTS</b>	<b>\$10,009.71</b>	<b>\$147,083.84</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$103,718.91</b>	<b>\$3,196.33</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$11,082.24</b>	<b>\$0.00</b>	<b>\$14,922.84</b>	<b>\$7,569.16</b>	<b>\$297,583.04</b>		
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>2.10%</b>	<b>32.83%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>36.06%</b>	<b>1.05%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>8.62%</b>	<b>0.00%</b>	<b>13.57%</b>	<b>5.77%</b>			
<b>F. Public Involvement Activities (PCI / DEC Assist)</b>														564	0.25%	\$ 70,368.84
<b>1. Public Involvement Program</b>														564		\$ 70,368.84
1.1 Preparation of Contact Mailing List and Database																
1.1.1 Compile and maintain a contact mailing list and database													20	20		\$ 1,966.01
1.1.2 Prepare and maintain Federal and TxDOT Legislative District maps including Legislator contact		3								5		4	16	28		\$ 3,391.86
1.1.3 Provide responses of public comments per meeting/hearing submitted via the CRRMA website		4			5								10	19		\$ 3,404.40
1.2 Agency Coordination														0		\$ -
1.3 Public Meetings														0		\$ -
1.3.1 Schedule, conduct and attend public meetings (assume 1 meeting).		4		4								4	7	19		\$ 3,299.66
1.3.2 Prepare public meeting materials including sign-in sheets, flyers, meeting notices, meeting posters, exhibits, comment form, welcome letter, display ad, legal notice, press release, posters, presentation, press kits, and other meeting materials					2	2				20			27	51		\$ 5,469.35
1.3.3 Coordinate preparation and review of public meeting materials (2 reviews)					2								4	6		\$ 824.47
1.3.4 Arrange for facilities, translation of materials, cleanup, etc.													15	15		\$ 1,474.51
1.3.5 Prepare and mail letters to interested parties and elected officials												4	16	20		\$ 1,902.60
1.3.6 Distribute public meeting notices (bilingual black and white) and post posters (bilingual color)												2	7	9		\$ 853.00
1.3.7 Identify newspapers, prepare and coordinate public meeting notices--2 newspapers (English and Spanish)												2	10	12		\$ 1,147.90
1.3.8 Ensure receipt of tear-sheets from local newspapers, scan for file and process payments													4	4		\$ 393.20
1.3.9 Provide staff for public meeting					4								4	8		\$ 1,255.73
1.3.10 Schedule and make facility and equipment arrangements.													7	7		\$ 688.11
1.3.11 Coordinate meeting facility set-up													10	10		\$ 983.01
1.3.12 Coordinate meeting logistics					2							4	12	18		\$ 1,940.66
1.3.13 Document the comments received and prepare responses		2			5								15	22		\$ 3,224.29
1.3.14 Prepare draft and final Public Meeting Summary Report		2			2								20	24		\$ 3,068.89
1.4 Public Hearing														0		\$ -
1.4.1 The Engineer shall schedule, conduct and attend public hearing (assume 1 hearing)		4				4						6	25	39		\$ 5,208.67
1.4.2 Prepare public hearing materials including sign-in sheets, flyers, meeting notices, meeting posters, exhibits, comment form, agenda, welcome letter, display ad, legal notice, press release, posters, script, presentation, press kits, and other meeting materials		2			3	7				20		6	20	58		\$ 7,304.72
1.4.3 Coordinate preparation and review of public hearing materials (2 reviews) with OPI		1			2								4	7		\$ 1,160.27
1.4.4 Arrange for facilities, translation of materials, court reporter, interpreter, security, cleanup, etc.												2	8	10		\$ 951.30
1.4.5 Prepare and mail letters to interested parties and elected officials												4	12	16		\$ 1,509.40

**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Deputy Project Manager	Senior Engineer	Project Engineer	Design Engineer	EIT	Quality Manager	Senior Engineering Technician	Senior CADD Operator	Construction Manager	Admin Assistant 3	Public Outreach Manager	TOTAL LABOR HOURS	% of CONST	TOTAL LABOR COST
1.4.6. Distribute public hearing notices (bilingual black and white) and post posters (bilingual color)												2	4	6		\$ 558.10
1.4.7. Identify newspapers, prepare and coordinate public hearing notices - 2 newspapers (English and Spanish) (bilingual display ad and legal notice) for local publication												2	8	10		\$ 951.30
1.4.8. Ensure receipt of tear-sheets from local newspapers, scan for file and process payments												2	2	2		\$ 196.60
1.4.9. The Engineer shall provide staff for public hearing		6			6	6	6					6	8	44		\$ 7,146.65
1.4.10. The Engineer shall schedule and make facility and equipment arrangements													8	8		\$ 786.41
1.4.11. The Engineer shall coordinate meeting facility set-up													4	4		\$ 393.20
1.4.12. The Engineer shall coordinate meeting logistics										2		2	10	14		\$ 1,340.64
1.4.13. The Engineer shall generate transcripts												2	10	12		\$ 1,147.90
1.4.14. The Engineer shall coordinate Public Hearing Certification for incorporation in the Public Hearing Summary Report		1			2								5	8		\$ 1,258.58
1.4.15. Prepare draft and final Public Hearing Summary Report		1			4							2	10	17		\$ 2,346.24
1.4.16 Summarize the activities in the EA, including all agency and public coordination efforts, meeting dates, number of attendees, locations, common comments, and how public comments were addressed		3			4							2	8	17		\$ 2,821.25
<b>Deliverables</b>														0		\$ -
- Project Mailing List Database														0		\$ -
- Responses to Public Comments														0		\$ -
- Agency Coordination Meeting Notes														0		\$ -
- Newspaper advertisements and/or Legal Notices														0		\$ -
- Public Meeting Material														0		\$ -
- Public Meeting Summary Report														0		\$ -
- Public Hearing Material														0		\$ -
- Public Hearing Summary Report and Analysis Report														0		\$ -
- Public Hearing Transcript														0		\$ -
- Public Involvement Summary for the EA														0		\$ -
<b>HOURS SUB-TOTALS</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>4</b>	<b>43</b>	<b>19</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>56</b>	<b>350</b>	<b>564</b>		
<b>CONTRACT RATE PER HOUR</b>	<b>\$357.49</b>	<b>\$335.81</b>	<b>\$272.70</b>	<b>\$234.63</b>	<b>\$215.63</b>	<b>\$228.31</b>	<b>\$101.48</b>	<b>\$151.91</b>	<b>\$111.92</b>	<b>\$96.37</b>	<b>\$228.31</b>	<b>\$82.45</b>	<b>\$98.30</b>			
<b>TOTAL LABOR COSTS</b>	<b>\$0.00</b>	<b>\$11,081.66</b>	<b>\$0.00</b>	<b>\$938.54</b>	<b>\$9,272.17</b>	<b>\$4,337.88</b>	<b>\$608.86</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$5,107.47</b>	<b>\$0.00</b>	<b>\$4,617.01</b>	<b>\$34,405.25</b>	<b>\$70,368.84</b>		
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.00%</b>	<b>5.85%</b>	<b>0.00%</b>	<b>0.71%</b>	<b>7.62%</b>	<b>3.37%</b>	<b>1.06%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>9.40%</b>	<b>0.00%</b>	<b>9.93%</b>	<b>0.00%</b>			
<b>G. Schematic Design</b>														1950	1.15%	\$ 319,133.16
<b>1. Data Collection</b>														151		\$ 21,301.98
<b>1.1 Photographic Record</b>														0		\$ -
1.1.1 Collect Data		2			18		30			38				88		\$ 11,259.26
1.1.2 Document Landmarks Along Existing Corridor														0		\$ -
1.1.3 Prepare Photos and aerial imaging														0		\$ -
<b>1.3. Municipality Reports/Developments (DEC)</b>														0		\$ -
1.3.1. Acquire Documents for proposed developments along proposed route		2			28		30			3				63		\$ 10,042.72
1.3.2. Illumination standards from appropriate agency														0		\$ -
1.3.3. Traffic signal standards from appropriate agency														0		\$ -
1.3.4. Traffic signal as-builts														0		\$ -
<b>2. Design Criteria</b>														0		\$ 14,345.86
Submit Design Criteria for approval by CRRMA Prior to Beginning of Schematic Design Work	4	4		20	7	16	7		9					67		\$ 14,345.86
REVIEW/REVISE GEOMETRIC SCHEMATIC PLAN AND PROFILE														0		\$ -
<b>3. Complete Roadway Design efforts required to develop roadway elements of the Project</b>														394		\$ 59,500.47
Prepare proposed drainage structures		2		6	12	16	12		10	28				86		\$ 13,355.14
Prepare horizontal geometric designs for all main lanes, frontage road lanes, ramps, crossroads		2		6	16	18	12		14	28				96		\$ 15,121.96
Prepare vertical geometric designs for all main lanes, frontage road lanes, ramps, crossroads		2		6	16	16	18		16	26				100		\$ 15,305.30
Prepare construction sequencing plan narrative			2	6	4	4	16							28		\$ 3,944.68
Prepare Existing and Proposed typical sections		2		6	4	12	18		14	28				84		\$ 11,773.38
<b>4. Design Schematic</b>														826		\$ 122,740.59
4.1. Typical sections of all improvements including widened or new drainage structures. (DEC)		6		8	12	18	16		32	36				128		\$ 19,263.30
4.2. Roadway plan and profile and super elevation. (DEC)		8		10	10	16	18		36	36				134		\$ 20,166.92
4.5. ROW limits: (DEC)		6		8	14	18	16		36	38				136		\$ 20,334.96
4.7.1. Prepare Illumination Warrant study. (DEC)					4	18	16		16	18				72		\$ 10,121.02
4.8. Geometrics, such as pavement cross slopes, lane widths, slope rates (for fills and cuts) of the typical sections of proposed lanes, and crossroads, shown in plan view and cross sections. (DEC)		9			16	16	36		20	26				123		\$ 18,522.41
4.9. Existing and Proposed Drainage Structures, offsite ponding areas (DEC)					16	20	30		18	30				114		\$ 15,966.15
4.10. Preliminary traffic control and sequence of construction plan (DEC)		4		9	16	18	26		18	28				119		\$ 18,365.83
<b>5. Other Items to support the engineering design effort</b>														431		\$ 71,413.19
5.1. Develop Engineer's Opinion of Probable Construction Cost. (DEC)	2	4			14	20			34					74		\$ 13,448.44
5.2. Prepare drainage analysis and maps of the existing and proposed drainage systems. (DEC)				16	4	18	30		28	30				126		\$ 17,795.28
5.4. Develop Preliminary Engineering Report. (DEC)	2	2			14	16								34		\$ 8,058.39
5.5. Traffic analysis and conceptual intersection type recommendation at up to two intersections. (DEC)				9		18	32		30	32				121		\$ 15,909.83
5.11. Perform a preliminary review for ADA compliance. (DEC)				9	4				9	9				31		\$ 4,848.80
5.12. Present reports and findings to CRRMA GEC. (DEC)	4	9			16									29		\$ 7,902.34
5.13. Work cooperatively and collaboratively with other governmental agencies and design consultant firms responsible for adjacent projects. (DEC)					16									16		\$ 3,450.11
<b>Deliverables</b>														148		\$ 29,831.08
- Design Summary Report (DSR)														0		\$ -
- Preliminary (30, 60, 90 and 100 percent) Design Schematic	2	3		7		16		60			60			148		\$ 29,831.08
- Opinion of Probable Construction Cost for all phased Design Schematic submittals														0		\$ -
- GeoPak and MicroStation .DGN files for Design Schematic														0		\$ -
- Technical memorandum on traffic projections methodology, traffic analysis, illumination warrant analysis, drainage analysis, and aesthetics														0		\$ -

**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Deputy Project Manager	Senior Engineer	Project Engineer	Design Engineer	EIT	Quality Manager	Senior Engineering Technician	Senior CADD Operator	Construction Manager	Admin Assistant 3	Public Outreach Manager	TOTAL LABOR HOURS	% of CONST	TOTAL LABOR COST
Stick diagrams on projected traffic volumes														0		\$ -
														0		\$ -
<b>HOURS SUB-TOTALS</b>	<b>14</b>	<b>67</b>		<b>126</b>	<b>257</b>	<b>294</b>	<b>363</b>	<b>60</b>	<b>340</b>	<b>434</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>2015</b>		
<b>CONTRACT RATE PER HOUR</b>	<b>\$357.49</b>	<b>\$335.81</b>		<b>\$234.63</b>	<b>\$215.63</b>	<b>\$228.31</b>	<b>\$101.48</b>	<b>\$151.91</b>	<b>\$111.92</b>	<b>\$96.37</b>	<b>\$228.31</b>	<b>\$82.45</b>	<b>\$98.30</b>			
<b>TOTAL LABOR COSTS</b>	<b>\$5,004.86</b>	<b>\$22,499.13</b>		<b>\$29,563.96</b>	<b>\$55,417.38</b>	<b>\$67,123.01</b>	<b>\$36,836.17</b>	<b>\$9,114.71</b>	<b>\$38,051.96</b>	<b>\$41,823.41</b>	<b>\$13,698.57</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$319,133.16</b>		
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.69%</b>	<b>3.33%</b>		<b>6.25%</b>	<b>12.75%</b>	<b>14.59%</b>	<b>18.01%</b>	<b>2.98%</b>	<b>16.87%</b>	<b>21.54%</b>	<b>2.98%</b>	<b>0.00%</b>	<b>0.00%</b>			
<b>H. Drainage Study</b>														<b>650</b>	<b>0.42%</b>	<b>\$ 116,945.04</b>
1. Perform Drainage Study														165		\$ 31,916.36
1.1 Determine the drainage requirements for the Project		10		14	22		22							68		\$ 13,619.36
1.1.1 Consider the location of retention ponding areas for storing runoff from the project		10			11		22							43		\$ 7,962.52
1.1.2 Identify any ROW requirements for locating/constructing new ponding areas and/or drainage appurtenances		10			22		22							54		\$ 10,334.47
2. Coordination														32		\$ 9,544.09
Coordinate with the County of El Paso, TXDOT, and adjoining developers/property owners		22			10									32		\$ 9,544.09
3. Perform Drain analysis using Bentley StormCad. Provide Report, including:														453		\$ 75,484.59
3.1 Watershed areas		7		4	36	7	7		24	24				109		\$ 18,359.28
3.2 Storm drain trunk line alignment for storm drain systems.		7		11		7	25		22	22				94		\$ 13,649.00
3.3 Determine inlets, manholes and junction boxes types for analysis.		7			11		25		18	18				79		\$ 11,008.66
3.4 Identify pipe strength requirements.				14	7	20								41		\$ 9,360.50
3.5 Identify potential utility conflicts and design around them, wherever possible.				14	7	20	14							55		\$ 10,781.18
3.6 Take into consideration drainage impacts to pedestrian facilities, utilities, and driveways.				4	14	20	22		8	7				75		\$ 12,325.98
Deliverables														0		\$ -
• Three copies of the bound Drainage Study report																
<b>HOURS SUB-TOTALS</b>	<b>0</b>	<b>73</b>	<b>0</b>	<b>61</b>	<b>140</b>	<b>74</b>	<b>159</b>	<b>0</b>	<b>72</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650</b>		
<b>CONTRACT RATE PER HOUR</b>	<b>\$357.49</b>	<b>\$335.81</b>	<b>\$272.70</b>	<b>\$234.63</b>	<b>\$215.63</b>	<b>\$228.31</b>	<b>\$101.48</b>	<b>\$151.91</b>	<b>\$111.92</b>	<b>\$96.37</b>	<b>\$228.31</b>	<b>\$82.45</b>	<b>\$98.30</b>			
<b>TOTAL LABOR COSTS</b>	<b>\$0.00</b>	<b>\$24,513.97</b>	<b>\$0.00</b>	<b>\$14,312.71</b>	<b>\$30,188.46</b>	<b>\$16,894.91</b>	<b>\$16,134.85</b>	<b>\$0.00</b>	<b>\$8,058.06</b>	<b>\$6,842.08</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$116,945.04</b>		
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.00%</b>	<b>11.23%</b>	<b>0.00%</b>	<b>9.38%</b>	<b>21.54%</b>	<b>11.38%</b>	<b>24.46%</b>	<b>0.00%</b>	<b>11.08%</b>	<b>10.92%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>			
<b>I. Stakeholder Coordination (PCI/DEC)</b>														<b>54</b>	<b>0.03%</b>	<b>\$ 8,141.26</b>
1. Stakeholder Involvement Activities														54		\$ 8,141.26
1.1 Identify stakeholders		1			2								4	7		\$ 1,160.27
1.2 Facilitate meetings		1			2								6	9		\$ 1,356.88
1.3 Produce graphic materials to promote and educate stakeholders about the project		1			2								6	9		\$ 1,356.88
1.4 Monitor and review comments received		1			2								4	7		\$ 1,160.27
1.5 Prepare Exhibits / Displays for Meetings		1			2								8	11		\$ 1,553.48
1.6 Prepare Meeting Summary, including a response to comments received		1			2								8	11		\$ 1,553.48
Deliverables														0		\$ -
Meeting Material														0		\$ -
Meeting Summary														0		\$ -
<b>HOURS SUB-TOTALS</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>54</b>		
<b>CONTRACT RATE PER HOUR</b>	<b>\$357.49</b>	<b>\$335.81</b>	<b>\$272.70</b>	<b>\$234.63</b>	<b>\$215.63</b>	<b>\$228.31</b>	<b>\$101.48</b>	<b>\$151.91</b>	<b>\$111.92</b>	<b>\$96.37</b>	<b>\$228.31</b>	<b>\$82.45</b>	<b>\$98.30</b>			
<b>TOTAL LABOR COSTS</b>	<b>\$0.00</b>	<b>\$2,014.85</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$2,587.58</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$3,538.83</b>	<b>\$8,141.26</b>		
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.00%</b>	<b>11.11%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>22.22%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>66.67%</b>			
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>														<b>6446</b>	<b>3.50%</b>	<b>\$ 966,085.24</b>
1. Update Information														0		\$ -
1.1 Update traffic data, ROW maps, and other information														0		\$ -
2. Design Summary Report														421		\$ 95,435.03
2.1 Complete DSR & Update TXDOT supporting forms at every phase (DSR, 1002, 2229,2443, etc.)														0		\$ -
Facility Type		5		5	10									20		\$ 5,008.53
Design Speed		5		5	12									22		\$ 5,439.79
Acceptable Level of Service (LOS)		5		5	12									22		\$ 5,439.79
Horizontal Criteria		5		5	10				10	6				36		\$ 6,705.91
Stopping Sight Distance		5		5	12									22		\$ 5,439.79
Maximum Curvature		5		5	12									22		\$ 5,439.79
Maximum Super-Elevation Rates		5		5	12									22		\$ 5,439.79
Vertical Criteria		5		5	12									22		\$ 5,439.79
Minimum and Maximum Gradient		5		5	12									22		\$ 5,439.79
K-Values		5		5	12									22		\$ 5,439.79
Vertical Clearances		5		5	10									20		\$ 5,008.53
Cross Section Criteria		5		5	10					30				50		\$ 7,899.55
Lane Widths		5		5	10									20		\$ 5,008.53
Shoulder Widths		5		5	10									20		\$ 5,008.53
Pavement Cross Slope and Maximum Side Slopes		5		5	10									20		\$ 5,008.53
Intersection Horizontal and Vertical Criteria		5		5	12									22		\$ 5,439.79
2.2 Hold a Design Conference		5			9	9						14		37		\$ 6,828.77
3. Initial Design														140		\$ 20,093.26
3.1 Develop traffic control plan/detour plans		10			10		30		38	38				126		\$ 16,473.53
3.2 Coordinate approval of pavement design		5			9									14		\$ 3,619.73
<b>5. Roadway Design</b>														<b>2964</b>		<b>\$ 417,758.03</b>
5.1 Design Final Vertical and Horizontal Alignments		10			20	25	70							125		\$ 20,481.85
5.2 Develop cross-sections and earthwork volumes		10			15	27	77		40	48				217		\$ 29,672.98
5.3 Detail Design Elements		7			15	25	70		50	57				224		\$ 29,485.08



**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Deputy Project Manager	Senior Engineer	Project Engineer	Design Engineer	EIT	Quality Manager	Senior Engineering Technician	Senior CADD Operator	Construction Manager	Admin Assistant 3	Public Outreach Manager	TOTAL LABOR HOURS	% of CONST	TOTAL LABOR COST
5.3.1 Traffic Signal modifications for up to one existing intersections for inclusion of APS, timing, phasing and striping improvements, etc. to accommodate turning movements and a six-lane road(DEC)														0		\$ -
5.3.1.1. Follow the Texas Manual on Uniform Traffic Control Devices and maintaining agency standards														0		\$ -
5.3.1.4. Develop signal phasing and signs – The Engineer will coordinate with the maintaining agency to determine appropriate signal phasing(DEC).		7		24	5	70	50		40	45				241		\$ 38,928.80
5.3.1.5. Develop pedestrian access details (DEC).														0		\$ -
5.3.2.2. Develop temporary traffic signal plans showing types and locations of proposed signal poles, pedestrian poles, signal heads, electrical service, signal cabinet, electrical pull boxes, conduit locations, vehicle detection, communication equipment, and roadway improvements (DEC).		10		20	9		115		40	75				269		\$ 33,365.57
5.3.2.3. Develop signal conduit chart and electrical wiring details (DEC).														0		\$ -
5.3.4 Permanent Illumination (DEC)														0		\$ -
5.3.4.1. Illumination to be developed based on results of the Warrant Analysis, or as directed by the County		1		2	3	3			5	12				26		\$ 3,852.90
5.3.4.2. Streetlight plans showing types and locations of light poles, ground boxes, electrical service and conduit.		1		2		4			7					14		\$ 2,501.74
5.3.4.3. Perform electrical calculations using standard County light poles and determine the required conduit, conductor, and breaker sizes.		1		2	3	5								11		\$ 2,593.52
5.3.4.4. Identify electrical service location with El Paso Electric Company.		2		2	3	4			7					18		\$ 3,484.44
5.3.4.5. Provide new lighting loads to El Paso Electric Company.		2		3	3	3								11		\$ 2,707.34
5.3.4.6. Develop general notes, lighting plan sheets, and sheets consisting of the luminaire and conductor/conduit schedule.		1		2	3	4	30		7	25				72		\$ 8,602.13
5.3.4.7. Tabulate lighting quantities and provide summary sheets.				2	3	4	15			20				44		\$ 5,478.90
5.3.5. Driveway access at existing facilities. (DEC)		1		2	3	3	7		7	15				38		\$ 5,076.17
5.3.5.1. Including transitions/modifications to existing streets.		1		2	3	3	5		5	10				29		\$ 4,167.55
5.3.6. Bicycle and pedestrian facilities. (DEC)		1		2	3	3			5	15				29		\$ 4,142.00
5.3.9. Develop miscellaneous design details required for non-standard design elements. (DEC)		1		3	3	4	17		7	20				55		\$ 7,035.72
5.4 Submit design exceptions/waivers as required on project														0		\$ -
Driveway Access														0		\$ -
Bicycle and pedestrian facilities	3	7		20	20	24	40			70				184		\$ 28,712.68
Miscellaneous Details		7			15		45		9	71				147		\$ 18,000.94
Submit design exceptions/waivers as required on project														0		\$ -
<b>SURVEY CONTROL INDEX OF SHEETS</b>		7		3	5		9		7	9				40		\$ 6,696.74
<b>HORIZONTAL AND VERTICAL CONTROL DATA SHEETS</b>		7		3	5		9		7	9				40		\$ 6,696.74
<b>REMOVAL PLAN</b>		7		12	18		35		24	36				132		\$ 18,754.58
<b>ROADWAY P &amp; P SHEETS</b>		10		24	40		110		80	110				374		\$ 48,330.86
<b>INTERSECTION LAYOUTS AND DETAILS</b>		12		24	36		90		70	90				322		\$ 43,063.89
<b>UTILITY LAYOUT SHEETS</b>		10			44				75	90				219		\$ 29,912.75
<b>STANDARDS</b>		7		3	10				9	24				53		\$ 8,530.95
Coordinate Design at Rojas and Darrington		7		9	14									30		\$ 7,481.21
<b>7. Drainage Design (DEC)</b>														<b>1312</b>		<b>\$ 183,244.33</b>
7.1 Develop retention pond design		5												5		\$ 1,679.04
7.2 Prepare retention pond details		5												5		\$ 1,679.04
7.3 Develop hydraulic design for culverts and storm drains		5												5		\$ 1,679.04
7.4 Prepare culvert and storm drain details		5												5		\$ 1,679.04
7.5 Design final vertical and horizontal alignments for storm drains		5												5		\$ 1,679.04
7.6 Prepare Overall Drainage Area Map		7		9	9		35		30	21				111		\$ 15,335.99
7.7 Prepare Roadway System Drainage Area Maps		7			19		50		40					116		\$ 15,998.21
7.8 Prepare Roadway System Drainage Area Calculation Sheets		7		5	9		19		15	9				64		\$ 9,938.65
7.9 Prepare Storm Sewer Pipe Computations		9		3	7		9		9	9				46		\$ 8,023.45
7.10 Prepare Inlet Computations		9		3	7		9		9	9				46		\$ 8,023.45
7.11 Prepare Culvert Hydraulic Computations		9		5	7		14		14	3				52		\$ 8,981.49
7.12 Prepare plan/profile sheets for storm drain systems and outfall ditches		9		19	19		150		142	127				466		\$ 54,929.83
7.13 Prepare Drainage Basin Layout Sheets (2 Basins)		7		19			40		48	38				152		\$ 19,901.79
7.14 Prepare Drainage Basin Calculation Sheets - 2 Basins		7		5			24		20	19				75		\$ 10,028.61
7.15 Select standard details from County or TxDOT		9		5	9		14		5	5				47		\$ 8,598.23
7.16 Prepare Miscellaneous Drainage Details		7		9	7		45		20	24				112		\$ 15,089.42
<b>8. Traffic Control</b>														<b>339</b>		<b>\$ 46,733.17</b>
8.1 Attend up to two meetings to present and discuss the proposed construction sequence and TCP		15			15							5		35		\$ 8,683.83
8.2 Prepare traffic control drawings														0		\$ -
Line Diagrams				5	5		5		40	45				100		\$ 11,571.95
Detour Plans				5	5		5		40	45				100		\$ 11,571.95
Traffic Control Plans				5	5		5		5	5				25		\$ 3,800.14
General Note Guidelines for Contractor				3			5		5	5				18		\$ 2,252.71
Compile TxDOT TCP Details/Standards														0		\$ -
8.3. Prepare presentation material for Safety Review meetings, including plan layout and PowerPoint, as necessary		5			9		15		9	9				47		\$ 7,016.45
8.4. Compile TCP Details/Standards using available TXDOT Standards				3			5		3	3				14		\$ 1,836.14
<b>9. Storm Water Pollution Prevention Plan (SW3P)</b>														<b>378</b>		<b>\$ 46,653.40</b>
9.1 Prepare SW3P Narrative		5		3	3		3		5	5				24		\$ 4,375.69
9.2 Prepare Storm Water Pollution Prevention Plans		7		5	3		115		40	120				290		\$ 31,881.36
Prepare Storm Water Pollution Prevention Plans Standards		5		3	3		5		5	5				26		\$ 4,578.65
9.3 Prepare EPIC Sheet		5		3	3		9		9	9				38		\$ 5,817.70

**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Deputy Project Manager	Senior Engineer	Project Engineer	Design Engineer	EIT	Quality Manager	Senior Engineering Technician	Senior CADD Operator	Construction Manager	Admin Assistant 3	Public Outreach Manager	TOTAL LABOR HOURS	% of CONST	TOTAL LABOR COST
<b>10. Final Assembly of PS&amp;E Package</b>														567		\$ 90,275.94
10.1 Complete final construction plans														0		\$ -
PREPARE TITLE SHEET		1		3	3				5	5				17		\$ 2,728.03
PREPARE INDEX OF SHEETS		3		5	3		9		5	7				32		\$ 4,974.94
PREPARE PROJECT LAYOUT					3		25		3	9				40		\$ 4,386.88
PREPARE FINAL Existing Typical Sections		1		8	1	5	5		5	48				73		\$ 9,262.67
PREPARE FINAL Proposed Typical Sections		5		15	1	9	14		9	14				67		\$ 11,246.06
PREPARE General notes and specification data sheet		3		10	1	14	9							37		\$ 7,679.03
Prepare E & Q Plan Sheet				1	1	1	3		3	3				12		\$ 1,607.86
PREPARE SUMMARY SHEETS		10		18	14		35		30	40				147		\$ 21,364.26
10.2 Develop standard and special specifications														0		\$ -
10.3 Develop special provisions														0		\$ -
10.4 Develop cost estimate		9		6	3	9	12		30	20				89		\$ 13,634.36
10.5 Develop construction time estimate.	3	9		14	12	15								53		\$ 13,391.85
10.6 Develop bid document package (INCLUDED UNDER BID PHASE)														0		\$ -
10.7 Support CCRMA's develop of project agreements related to the Project														0		\$ -
<b>11. ADA Compliance Services</b>														46		\$ 11,237.16
11.1 Perform plan review and inspections for ADA, T.A.S., and TDLR requirements		14		5	9	9		9						46		\$ 11,237.16
<b>12. Submittal</b>														0		\$ -
Submit design documents at project milestones (30, 60,90 and 100%)														0		\$ -
Attend prebid conference														0		\$ -
<b>Deliverables</b>														279		\$ 54,654.92
30, 60, 90, 100% Submittals: Prepare and provide three (3) reproducible copies of the 30, 60, 90, 100% Design documents and corresponding electronic (pdf) files		14			9	19			14	19	9			84		\$ 16,432.49
Specification list														0		\$ -
QC redlines at (30, 60, and 90 percent) design reviews	7	10		24	50			35						126		\$ 27,590.24
Preliminary (30, 60, and 90 percent) design review														0		\$ -
Final drainage report		3		5			9	3	5					25		\$ 4,109.21
Final approved design exceptions/waivers														0		\$ -
Plans estimate	2	3				5	14		20					44		\$ 6,522.98
Specification list, general notes, special provisions, specifications, special specifications														0		\$ -
Final Opinion of Probable Construction Cost														0		\$ -
Final construction schedule time estimate														0		\$ -
Final signed and sealed construction plans														0		\$ -
Bid Document Package														0		\$ -
<b>HOURS SUB-TOTALS</b>	15	476	0	477	761	306	1540	47	1191	1605	9	19	0	6446		
<b>CONTRACT RATE PER HOUR</b>	\$357.49	\$335.81	\$272.70	\$234.63	\$215.63	\$228.31	\$101.48	\$151.91	\$111.92	\$96.37	\$228.31	\$82.45	\$98.30			
<b>TOTAL LABOR COSTS</b>	\$5,362.35	\$159,844.54	\$0.00	\$111,920.71	\$164,095.83	\$69,862.73	\$156,274.67	\$7,139.85	\$133,293.79	\$154,669.51	\$2,054.79	\$1,566.49	\$0.00	\$966,085.24		
<b>% DISTRIBUTION OF STAFF HOURS</b>	0.23%	7.38%	0.00%	7.40%	11.81%	4.75%	23.89%	0.73%	18.48%	24.90%	0.14%	0.29%	0.00%			
<b>M. Bid Phase Services</b>														96	0.07%	\$ 20,523.09
<b>1. Bid Development</b>														77		\$ 15,753.50
1.1. Assist County/GEC in preparing for Bids. (DEC)		4		4	4	2								14		\$ 3,600.92
1.2. Develop bid proposal and assist with TXDOT front end documents. (DEC)	2	2		4	3	3	4		3	3		4		28		\$ 5,017.51
1.3. Prepare any addenda to drawings or specifications. (DEC)						4	4		4	4				16		\$ 2,152.29
1.4. Attend the Pre-Bid Conference. (DEC)		3		3	3									9		\$ 2,358.22
1.5. Assist County/GEC in responding to Contractor Questions. (DEC)		3		3		4								10		\$ 2,624.57
<b>2. Bid Award</b>														19		\$ 4,769.59
2.1. Assist County/GEC in evaluating bids received		3			3	3								9		\$ 2,339.25
2.2. Provide letter recommendation for award	1	2										2		5		\$ 1,194.00
2.3. Update TXDOT Project Checklist		1		2	2									5		\$ 1,236.34
<b>HOURS SUB-TOTALS</b>	3	18	0	16	15	16	8	0	7	7	0	6	0	96		
<b>CONTRACT RATE PER HOUR</b>	\$357.49	\$335.81	\$272.70	\$234.63	\$215.63	\$228.31	\$101.48	\$151.91	\$111.92	\$96.37	\$228.31	\$82.45	\$98.30			
<b>TOTAL LABOR COSTS</b>	\$1,072.47	\$6,044.54	\$0.00	\$3,754.15	\$3,234.48	\$3,652.95	\$811.82	\$0.00	\$783.42	\$674.57	\$0.00	\$494.68	\$0.00	\$20,523.09		
<b>% DISTRIBUTION OF STAFF HOURS</b>	3.13%	18.75%	0.00%	16.67%	15.63%	16.67%	8.33%	0.00%	7.29%	7.29%	0.00%	6.25%	0.00%			
<b>TOTAL PROJECT HOURS</b>	60	1111	0	684	1709	723	2076	107	1610	2285	69	262	463	11159		
<b>PROJECT TOTALS</b>	\$21,449.39	\$373,082.52	\$0.00	\$160,490.08	\$368,514.81	\$165,067.82	\$210,666.37	\$16,254.56	\$180,187.23	\$220,199.27	\$15,753.36	\$21,601.02	\$45,513.23	\$1,798,779.67		
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	0.54%	9.96%	0.00%	6.13%	15.31%	6.48%	18.60%	0.96%	14.43%	20.48%	0.62%	2.35%	4.15%			

**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC					
PROJECT: Tierra Este Rd. Extension					
PRIME PROVIDER - OTHER DIRECT EXPENSES					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	30	night	96.00		\$2,880.00
Lodging/Hotel (Taxes/fees)	30	night	40.00		\$1,200.00
Meals (overnight stay required)	30	day	55.00		\$1,650.00
Rental Car (Tax/fees not included)		day	90.00		\$0.00
Rental Car (Tax/fees)	30	day	25.00		\$750.00
Rental Car Fuel		day	25.00		\$0.00
Mileage (Current state rate)	5000	mile	0.565		\$2,825.00
SUV or ATV Rental		day	150.00		\$0.00
Air Travel	15	each	675.00		\$10,125.00
Parking		day	25.00		\$0.00
Taxi/Cab fare		each	40.00		\$0.00
Standard Postage (Current state rate)		letter	0.55		\$0.00
Overnight express-letter size		each	15.00		\$0.00
Overnight express-oversized box		each	40.00		\$0.00
Courier Services		each	35.00		\$0.00
8½"X11" B/W Paper Copies	1000	each	0.20		\$200.00
11"X17" B/W Paper Copies	750	each	0.40		\$300.00
8½"X11" Color Paper Copies	200	each	0.75		\$150.00
11"X17" Color Paper Copies	200	each	1.50		\$300.00
CADD Plotting	300	linear foot	1.50		\$450.00
Digital Ortho Plotting		linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer		hour/officer	80.00		\$0.00
Notebooks		each	10.00		\$0.00
Hazardous Materials Database Search		per search	600.00		\$0.00
Report Binding		each	8.00		\$0.00
Presentation Boards 30'X40" Color Mounted	10	each	100.00		\$1,000.00
Color Graphics on Foam Board		sq. ft.	10.00		\$0.00
Custodian for Public Involvement	2	event	300.00		\$600.00
Audio-Visual Equipment Rental (technician included)	2	event	500.00		\$1,000.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	2	day	50.00		\$100.00
Translator (English to Spanish)	8	hour	100.00		\$800.00
Court Reporter	4	hour	125.00		\$500.00
Newspaper Advertisement	2	each	4,000.00		\$8,000.00
Plots (B/W on Bond)		linear foot	0.75		\$0.00
Plots (Color on Bond)	50	linear foot	1.75		\$87.50
Plots ( Color on Photographic Paper)		linear foot	5.00		\$0.00
<b>Other Direct Expense Total</b>					<b>\$32,830.00</b>

**Exhibit D  
FEE SCHEDULE**

Dannenbaum Engineering Company - El Paso, LLC		
PROJECT: Tierra Este Rd. Extension		
Dannenbaum Engineering Company - El Paso, LLC LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Principal	\$ 129.43	\$ 357.49
Senior Project Manager	\$ 121.58	\$ 335.81
Deputy Project Manager	\$ 98.73	\$ 272.70
Senior Bridge Engineer	\$ 85.31	\$ 235.63
Senior Engineer	\$ 84.95	\$ 234.63
Project Engineer	\$ 78.07	\$ 215.63
Design Engineer	\$ 82.66	\$ 228.31
EIT	\$ 36.74	\$ 101.48
EIT 2	\$ 41.33	\$ 114.15
EIT 3	\$ 45.92	\$ 126.83
Quality Manager	\$ 55.00	\$ 151.91
Senior Engineering Technician	\$ 40.52	\$ 111.92
Engineering Technician	\$ 36.02	\$ 99.49
Senior CADD Operator	\$ 34.89	\$ 96.37
CADD Operator	\$ 27.57	\$ 76.15
Scheduler	\$ 57.40	\$ 158.54
GIS Specialist	\$ 60.85	\$ 168.07
Construction Manager	\$ 82.66	\$ 228.31
Construction Engineer	\$ 73.47	\$ 202.93
Admin / Clerical (Eng)	\$ 21.81	\$ 60.24
Admin Assistant 2	\$ 25.26	\$ 69.77
Admin Assistant 3	\$ 29.85	\$ 82.45
Public Outreach Manager	\$ 35.59	\$ 98.30
Admin / Clerical (Surv)	\$ 25.26	\$ 69.77
Field Engineer Geologist	\$ 75.00	\$ 207.15
Appraiser	\$ 90.59	\$ 250.21
Senior Land Agent	\$ 70.89	\$ 195.80
Land Agent	\$ 54.32	\$ 150.03
Project Manager	\$ 105.00	\$ 290.01
Bridge Engineer	\$ 77.31	\$ 213.53
Audited Overhead Rate:	146.61%	
Negotiated Profit Rate:	12.00%	
Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment. Physical percent complete to be billed. Documentation of hours work not required.		
Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.		

**Exhibit D  
FEE SCHEDULE**

Villaverde Inc., S8  
PROJECT: Tierra Este Rd. Extension

Task Description	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	Senior Engineering Technician	Engineering Technician	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>G. Schematic Design</b>											515	\$ 42,180.39
4. Design Schematic											515	\$ 42,180.39
4.3. Location and text of proposed guide signs.		9		24	45		12	72			162	\$ 13,320.69
4.4. Lane lines and arrows indicating the number of lanes		9		36	33		15	80			173	\$ 14,109.54
4.4. Intersections	2	13		32	35		10	88			180	\$ 14,750.16
											0	\$ -
<b>HOURS SUB-TOTALS</b>	<b>2</b>	<b>31</b>	<b>0</b>	<b>92</b>	<b>113</b>	<b>0</b>	<b>37</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>515</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$177.62</b>	<b>\$119.04</b>	<b>\$115.50</b>	<b>\$113.09</b>	<b>\$103.30</b>	<b>\$93.85</b>	<b>\$77.04</b>	<b>\$55.03</b>	<b>\$45.34</b>	<b>\$48.48</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$355.25</b>	<b>\$3,690.10</b>	<b>\$0.00</b>	<b>\$10,404.54</b>	<b>\$11,673.12</b>	<b>\$0.00</b>	<b>\$2,850.65</b>	<b>\$13,206.73</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$42,180.39</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.39%</b>	<b>6.02%</b>	<b>0.00%</b>	<b>17.86%</b>	<b>21.94%</b>	<b>0.00%</b>	<b>7.18%</b>	<b>46.60%</b>	<b>0.00%</b>	<b>0.00%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>2</b>	<b>31</b>	<b>0</b>	<b>92</b>	<b>113</b>	<b>0</b>	<b>37</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>515</b>	
<b>PROJECT TOTALS</b>	<b>\$355.25</b>	<b>\$3,690.10</b>	<b>\$0.00</b>	<b>\$10,404.54</b>	<b>\$11,673.12</b>	<b>\$0.00</b>	<b>\$2,850.65</b>	<b>\$13,206.73</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$42,180.39</b>	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>0.39%</b>	<b>6.02%</b>	<b>0.00%</b>	<b>17.86%</b>	<b>21.94%</b>	<b>0.00%</b>	<b>7.18%</b>	<b>46.60%</b>	<b>0.00%</b>	<b>0.00%</b>		

**Exhibit D  
FEE SCHEDULE**

Villaverde Inc., S8  
PROJECT: Tierra Este Rd. Extension

Task Description	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	Senior Engineering Technician	Engineering Technician	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>											1352	\$ 100,989.56
<b>5.3 Signing, Pavement Markings and Signalization</b>											1352	\$ 100,989.56
Quantity of Summary Sheets				8	15	7		35			65	\$ 5,037.21
General Notes and Specifications			2	7	13	6		16		14	58	\$ 4,487.90
Signing layouts	2		4	24	42	17		164		13	266	\$ 19,120.52
Pavement Markings Layout	4		2	36	40	14		140			236	\$ 18,162.76
Street Names					44	11		120		8	183	\$ 12,568.88
Summary of Small Signs			2	16	27	8		70			123	\$ 9,432.41
Guided Signs				12	20	7		74		11	124	\$ 8,685.50
Special Signs			2	12	26	9		82			131	\$ 9,630.93
Three Intersection Standards	2		2	24	32	7		37			104	\$ 9,299.14
<b>HOURS SUB-TOTALS</b>	<b>8</b>	<b>0</b>	<b>14</b>	<b>147</b>	<b>273</b>	<b>88</b>	<b>0</b>	<b>766</b>	<b>0</b>	<b>56</b>	<b>1352</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$177.62</b>	<b>\$119.04</b>	<b>\$115.50</b>	<b>\$113.09</b>	<b>\$103.30</b>	<b>\$93.85</b>	<b>\$77.04</b>	<b>\$55.03</b>	<b>\$45.34</b>	<b>\$48.48</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$1,420.99</b>	<b>\$0.00</b>	<b>\$1,617.02</b>	<b>\$16,624.65</b>	<b>\$28,201.43</b>	<b>\$8,258.92</b>	<b>\$0.00</b>	<b>\$42,151.48</b>	<b>\$0.00</b>	<b>\$2,715.07</b>	<b>\$100,989.56</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.59%</b>	<b>0.00%</b>	<b>1.04%</b>	<b>10.87%</b>	<b>20.19%</b>	<b>6.51%</b>	<b>0.00%</b>	<b>56.66%</b>	<b>0.00%</b>	<b>4.14%</b>		
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>											432	\$ 35,789.07
<b>9. Storm Water Pollution Prevention Plan (SW3P)</b>											432	\$ 35,789.07
9.1 Prepare SW3P Narrative	16		24		32			48		16	136	\$ 12,336.75
9.2 Prepare Storm Water Pollution Prevention Plans	4		16		48			84			152	\$ 12,139.37
Prepare Storm Water Pollution Prevention Plans Standards	2		8		24			36			70	\$ 5,739.51
9.3 Prepare EPIC Sheet	2		8		16			48			74	\$ 5,573.44
											0	\$ -
<b>HOURS SUB-TOTALS</b>	<b>24</b>	<b>0</b>	<b>56</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>216</b>	<b>0</b>	<b>16</b>	<b>432</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$177.62</b>	<b>\$119.04</b>	<b>\$115.50</b>	<b>\$113.09</b>	<b>\$103.30</b>	<b>\$93.85</b>	<b>\$77.04</b>	<b>\$55.03</b>	<b>\$45.34</b>	<b>\$48.48</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$4,262.97</b>	<b>\$0.00</b>	<b>\$6,468.07</b>	<b>\$0.00</b>	<b>\$12,396.23</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$11,886.06</b>	<b>\$0.00</b>	<b>\$775.73</b>	<b>\$35,789.07</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>5.56%</b>	<b>0.00%</b>	<b>12.96%</b>	<b>0.00%</b>	<b>27.78%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>50.00%</b>	<b>0.00%</b>	<b>3.70%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>32</b>	<b>0</b>	<b>70</b>	<b>147</b>	<b>393</b>	<b>88</b>	<b>0</b>	<b>982</b>	<b>0</b>	<b>72</b>	<b>1784</b>	
<b>PROJECT TOTALS</b>	<b>\$5,683.96</b>	<b>\$0.00</b>	<b>\$8,085.09</b>	<b>\$16,624.65</b>	<b>\$40,597.66</b>	<b>\$8,258.92</b>	<b>\$0.00</b>	<b>\$54,037.54</b>	<b>\$0.00</b>	<b>\$3,490.80</b>	<b>\$136,778.63</b>	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>1.79%</b>	<b>0.00%</b>	<b>3.92%</b>	<b>8.24%</b>	<b>22.03%</b>	<b>4.93%</b>	<b>0.00%</b>	<b>55.04%</b>	<b>0.00%</b>	<b>4.04%</b>		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: 'Villaverde Inc., S8</b>					
<b>PROJECT: Tierra Este Rd. Extension</b>					
<b>OTHER DIRECT EXPENSES</b>					
<b>Other Direct Expenses</b>	<b>UNITS</b>		<b>RATE</b>		
Lodging/Hotel (Taxes/fees not included)	0	night	96.00		\$0.00
Lodging/Hotel Taxes/fees	0	night	40.00		\$0.00
Meals (overnight stay required)	0	day	55.00		\$0.00
Rental Car (Tax/fees not included)	0	day	90.00		\$0.00
Rental Car Taxes/fees	0	day	25.00		\$0.00
Rental Car fuel	0	day	25.00		\$0.00
Mileage	0	mile	0.565		\$0.00
SUV or ATV Rental	0	day	150.00		\$0.00
Air Travel	0	each	675.00		\$0.00
Parking	0	day	25.00		\$0.00
Taxi/Cab fare	0	each	40.00		\$0.00
Standard Postage (Current State rate)	0	letter	0.55		\$0.00
Overnight express-letter size	0	each	15.00		\$0.00
Overnight express-oversized box	0	each	40.00		\$0.00
Courier Services	0	each	35.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.20		\$0.00
11"X17" B/W Paper Copies	0	each	0.40		\$0.00
8½"X11" Color Paper Copies	0	each	0.75		\$0.00
11"X17" Color Paper Copies	0	each	1.50		\$0.00
CADD Plotting	0	linear foot	1.50		\$0.00
Digital Ortho Plotting	0	linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	0	per search	600.00		\$0.00
Report Binding	0	each	8.00		\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	100.00		\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00		\$0.00
Custodian for Public Involvement	0	event	300.00		\$0.00
Audio-Visual Equipment Rental (technician)	0	event	500.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00		\$0.00
Translator (English to Spanish)	0	hour	100.00		\$0.00
Court Reporter	0	hour	125.00		\$0.00
Newspaper Advertisement	0	each	4,000.00		\$0.00
Plots (B/W on Bond)	0	linear foot	0.75		\$0.00
Plots (Color on Bond)	0	linear foot	1.75		\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00		\$0.00
					\$0.00
<b>Other Direct Expense Total</b>					<b>\$0.00</b>

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Villaverde Inc., S8</b>		
<b>PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Senior Project Manager	\$ 67.85	\$ 177.62
Senior Engineer	\$ 45.47	\$ 119.04
Project Engineer	\$ 44.12	\$ 115.50
Design Engineer	\$ 43.20	\$ 113.09
EIT	\$ 39.46	\$ 103.30
Senior Engineering Technician	\$ 35.85	\$ 93.85
Engineering Technician	\$ 29.43	\$ 77.04
Senior CADD Operator	\$ 21.02	\$ 55.03
CADD Operator	\$ 17.32	\$ 45.34
Admin / Clerical (Eng)	\$ 18.52	\$ 48.48
Audited Overhead Rate:	137.99%	
Negotiated Profit Rate:	10.00%	



**Exhibit D  
FEE SCHEDULE**

**Vickrey & Associates, Inc., S7  
PROJECT: Tierra Este Rd. Extension**

Task Description	Principal	Survey Project Manager	Registered Professional Land Surveyor	Survey Technician	Survey Technician - GPS	2-man Survey Crew (Portal to Portal)	Admin / Clerical (Surv)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>B. Surveying (VICKREY)</b>								300	\$ 58,195.41
<b>One Call - Diggtest</b>								14	\$ 1,817.30
One Call/Utility Research		2	2	8			2	14	\$ 1,817.30
<b>Project Control</b>								32	\$ 14,551.85
Primary and Secondary Control Monuments (6&12)		3	4	10		45	4	66	\$ 10,684.85
Prepare Control Sheets (H&V Control Sheet, Control Layout and Control Datasheets)		2	4	20			6	32	\$ 3,867.00
<b>Ground Survey</b>								268	\$ 41,826.26
Field Surveys		8	10	25		145	6	194	\$ 32,197.54
Prepare Base Map DGN Mapping		8	12	48			6	74	\$ 9,628.72
								0	\$ -
								0	\$ -
<b>HOURS SUB-TOTALS</b>	<b>0</b>	<b>23</b>	<b>32</b>	<b>111</b>	<b>0</b>	<b>190</b>	<b>24</b>	<b>380</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$238.33</b>	<b>\$193.64</b>	<b>\$178.75</b>	<b>\$113.21</b>	<b>\$98.31</b>	<b>\$176.07</b>	<b>\$83.42</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$0.00</b>	<b>\$4,453.72</b>	<b>\$5,720.00</b>	<b>\$12,566.31</b>	<b>\$0.00</b>	<b>\$33,453.30</b>	<b>\$2,002.08</b>	<b>\$58,195.41</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.00%</b>	<b>6.05%</b>	<b>8.42%</b>	<b>29.21%</b>	<b>0.00%</b>	<b>50.00%</b>	<b>6.32%</b>		
<b>C. Right-of-Way Mapping (VICKREY)</b>								678	\$ 92,271.30
<b>Perform Right-of-Way Survey</b>								252	\$ 36,614.18
								0	\$ -
Determine Property Owners and Right of Entry		2					8	10	\$ 1,054.64
Research/Abstract Tracts		16		40			40	96	\$ 10,963.44
Fieldwork property corners & survey parent tracts		4			8	60		72	\$ 12,125.24
Set Parcel and Right of Way Monumeration		4		10		60		74	\$ 12,470.86
Prepare Right of Way Map, Parcel Plats and Metes and Bounds Descriptions								426	\$ 55,657.12
Prepare ROW sheets in surface coordinates	2	18	24	180				224	\$ 28,629.98
Prepare Parcel Plats and metes and bounds descriptions and calculations for acquisition (12)	2	16	40	144				202	\$ 27,027.14
								0	\$ -
								0	\$ -
								0	\$ -
<b>HOURS SUB-TOTALS</b>	<b>4</b>	<b>60</b>	<b>64</b>	<b>374</b>	<b>8</b>	<b>120</b>	<b>48</b>	<b>678</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$238.33</b>	<b>\$193.64</b>	<b>\$178.75</b>	<b>\$113.21</b>	<b>\$98.31</b>	<b>\$176.07</b>	<b>\$83.42</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$953.32</b>	<b>\$11,618.40</b>	<b>\$11,440.00</b>	<b>\$42,340.54</b>	<b>\$786.48</b>	<b>\$21,128.40</b>	<b>\$4,004.16</b>	<b>\$92,271.30</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.59%</b>	<b>8.85%</b>	<b>9.44%</b>	<b>55.16%</b>	<b>1.18%</b>	<b>17.70%</b>	<b>7.08%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>4</b>	<b>83</b>	<b>96</b>	<b>485</b>	<b>8</b>	<b>310</b>	<b>72</b>	<b>1058</b>	
<b>PROJECT TOTALS</b>	<b>\$953.32</b>	<b>\$16,072.12</b>	<b>\$17,160.00</b>	<b>\$54,906.85</b>	<b>\$786.48</b>	<b>\$54,581.70</b>	<b>\$6,006.24</b>	<b>\$150,466.71</b>	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>0.38%</b>	<b>7.84%</b>	<b>9.07%</b>	<b>45.84%</b>	<b>0.76%</b>	<b>29.30%</b>	<b>6.81%</b>		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Vickrey &amp; Associates, Inc., S7 PROJECT: Tierra Este Rd. Extension</b>				
<b>OTHER DIRECT EXPENSES</b>				
Other Direct Expenses	UNITS		RATE	
Lodging/Hotel (Taxes/fees not included)	80	night	96.00	\$7,680.00
Lodging/Hotel Taxes/fees	80	night	40.00	\$3,200.00
Meals (overnight stay required)	80	day	55.00	\$4,400.00
Rental Car (Tax/fees not included)	1	day	90.00	\$90.00
Rental Car Taxes/fees	1	day	25.00	\$25.00
Rental Car fuel	1	day	25.00	\$25.00
Mileage	3900	mile	0.565	\$2,203.50
SUV or ATV Rental	0	day	150.00	\$0.00
Air Travel	1	each	675.00	\$675.00
Parking	0	day	25.00	\$0.00
Taxi/Cab fare	0	each	40.00	\$0.00
Standard Postage (Current State rate)	25	letter	0.55	\$13.75
Overnight express-letter size	4	each	15.00	\$60.00
Overnight express-oversized box	0	each	40.00	\$0.00
Courier Services	0	each	35.00	\$0.00
8½"X11" B/W Paper Copies	800	each	0.20	\$160.00
11"X17" B/W Paper Copies	24	each	0.40	\$9.60
8½"X11" Color Paper Copies	150	each	0.75	\$112.50
11"X17" Color Paper Copies	50	each	1.50	\$75.00
CADD Plotting	0	linear foot	1.50	\$0.00
Digital Ortho Plotting	0	linear foot	1.75	\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00	\$0.00
Notebooks	0	each	10.00	\$0.00
Hazardous Materials Database Search	0	per search	600.00	\$0.00
Report Binding	0	each	8.00	\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	100.00	\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00	\$0.00
Custodian for Public Involvement	0	event	300.00	\$0.00
Audio-Visual Equipment Rental (technician)	0	event	500.00	\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00	\$0.00
Translator (English to Spanish)	0	hour	100.00	\$0.00
Court Reporter	0	hour	125.00	\$0.00
Newspaper Advertisement	0	each	4,000.00	\$0.00
Plots (B/W on Bond)	0	linear foot	0.75	\$0.00
Plots (Color on Bond)	0	linear foot	1.75	\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00	\$0.00
				\$0.00
<b>Other Direct Expense Total</b>				<b>\$18,729.35</b>

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Vickrey &amp; Associates, Inc.</b>		
<b>SUBCONSULTANT: Vickrey &amp; Associates, Inc., S7</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Principal	\$ 80.00	\$ 238.33
Survey Project Manager	\$ 65.00	\$ 193.64
Registered Professional Land Surveyor	\$ 60.00	\$ 178.75
Survey Technician	\$ 38.00	\$ 113.21
Survey Technician - GPS	\$ 33.00	\$ 98.31
2-man Survey Crew (Portal to Portal)	\$ 59.10	\$ 176.07
3-man Survey Crew (Portal to Portal)	\$ 67.55	\$ 201.24
4-man Survey Crew (Portal to Portal)	\$ 75.71	\$ 225.55
Flagger	\$ 22.00	\$ 65.54
Admin / Clerical (Surv)	\$ 28.00	\$ 83.42
Audited Overhead Rate:	170.83%	
Negotiated Profit Rate:	10.00%	
<p>Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment.            Physical percent complete to be billed. Documentation of hours work not required.            Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.</p>		

**Exhibit D  
FEE SCHEDULE**

**Wood Environmental & Infrastructure Solutions, Inc., S9  
PROJECT: Tierra Este Rd. Extension**

Task Description	Senior Project Manager	Senior Engineer	Senior Engineering Technician	Engineering Technician	CADD Operator	Admin / Clerical (Eng)	Field Engineer / Geologist	3D Animator / Graphics	Senior Architect	Architect	TOTAL LABOR HOURS	TOTAL LABOR COST	% of CONST
<b>D. Geotechnical Investigations (Wood Env.)</b>											202	\$ 25,064.76	0.09%
<b>1. Surface Exploration and Testing</b>											124	\$ 13,216.86	
1.1 Perform geotechnical engineering investigation											0	\$ -	
1.1.1. Conduct subsurface explorations		8									8	\$ 1,365.71	
1.1.2 Implement traffic control		4		3			8				15	\$ 1,644.59	
1.1.3 Advance exploratory borings											0	\$ -	
1.1.4 Develop a laboratory soils testing program and utilize the index test		10									10	\$ 1,707.13	
1.1.5 The borings shall be drilled in general accordance with standard procedures using a truck-mounted rotary-drilling rig utilizing hollow stem augers							40				40	\$ 3,539.73	
1.1.6 Perform Standard Penetration Tests (SPTs), in accordance with ASTM procedures		6									6	\$ 1,024.28	
1.1.7 Collect soil samples using conventional split-spoon sampling techniques or as required based on the encountered soil conditions							8				8	\$ 707.95	
1.1.8 Properly identify collected soil samples with date, sample location, sample depth and penetration measurements				12							12	\$ 1,015.15	
1.1.9 Perform a minimum of one percolation tests at each ponding area site (3 total)							25				25	\$ 2,212.33	
<b>2. Geotechnical Design</b>											75	\$ 11,291.82	
2.1 Determine pavement base and pavement thickness for pavement type and provide report	1	15									16	\$ 2,775.35	
2.2 Provide recommendations for underground storm water pipe bedding and backfill	1	2									3	\$ 556.08	
2.3 Perform life cycle analysis		15									15	\$ 2,560.70	
2.5 Provide recommendations for illumination pole and traffic signal mast arm foundations, and ret. wall structures	1	3									4	\$ 726.79	
2.6 Summarize results of the geotechnical engineering investigations in a written report		12			10	8					30	\$ 3,433.97	
2.7 Perform a soil stability study for the ponding sites and incorporate into the report	1	6									7	\$ 1,238.93	
<b>Deliverables</b>											3	\$ 556.08	
1. Geotechnical Report (5 copies) (PE signed and sealed) and incorporate boring logs into the design set	1	2									3	\$ 556.08	
<b>HOURS SUB-TOTALS</b>	<b>5</b>	<b>83</b>	<b>0</b>	<b>15</b>	<b>10</b>	<b>8</b>	<b>81</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>202</b>		
<b>CONTRACT RATE PER HOUR</b>	<b>\$214.65</b>	<b>\$170.71</b>	<b>\$88.49</b>	<b>\$84.60</b>	<b>\$87.48</b>	<b>\$63.83</b>	<b>\$88.49</b>	<b>\$138.44</b>	<b>\$203.97</b>	<b>\$138.81</b>			
<b>TOTAL LABOR COSTS</b>	<b>\$1,073.26</b>	<b>\$14,169.20</b>	<b>\$0.00</b>	<b>\$1,268.94</b>	<b>\$874.79</b>	<b>\$510.62</b>	<b>\$7,167.95</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$25,064.76</b>		
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>2.48%</b>	<b>41.09%</b>	<b>0.00%</b>	<b>7.43%</b>	<b>4.95%</b>	<b>3.96%</b>	<b>40.10%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>			
<b>TOTAL PROJECT HOURS</b>	<b>5</b>	<b>83</b>	<b>0</b>	<b>15</b>	<b>10</b>	<b>8</b>	<b>81</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>202</b>		
<b>PROJECT TOTALS</b>	<b>\$1,073.26</b>	<b>\$14,169.20</b>	<b>\$0.00</b>	<b>\$1,268.94</b>	<b>\$874.79</b>	<b>\$510.62</b>	<b>\$7,167.95</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$25,064.76</b>		
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>2.48%</b>	<b>41.09%</b>	<b>0.00%</b>	<b>7.43%</b>	<b>4.95%</b>	<b>3.96%</b>	<b>40.10%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>			

## Exhibit D FEE SCHEDULE

SUBCONSULTANT: Wood Environmental & Infrastructure Solutions, Inc., S9					
PROJECT: Tierra Este Rd. Extension					
OTHER DIRECT EXPENSES					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	96.00		\$0.00
Lodging/Hotel Taxes/fees	0	night	40.00		\$0.00
Meals (overnight stay required)	0	day	55.00		\$0.00
Rental Car (Tax/fees not included)	0	day	90.00		\$0.00
Rental Car Taxes/fees	0	day	25.00		\$0.00
Rental Car fuel	0	day	25.00		\$0.00
Mileage	320	mile	0.565		\$180.80
15-foot boring	12	each	\$320.00		\$3,840.00
20-foot boring	0	each	\$450.00		\$0.00
30-foot boring	0	each	\$575.00		\$0.00
40-foot boring	3	each	\$750.00		\$2,250.00
70-foot boring	0	each	\$1,570.00		\$0.00
Drill Rig Demob	1	each	\$800.00		\$800.00
Sieve test	45	each	\$67.00		\$3,015.00
Atterberg limits test	35	each	\$67.00		\$2,345.00
Moisture content	54	each	\$10.00		\$540.00
Moisture-density (proctor) curve	4	each	\$275.00		\$1,100.00
California Bearing Ratio	4	each	\$325.00		\$1,300.00
Direct Shear	0	each	\$150.00		\$0.00
Traffic Control Devices	3	day	\$325.00		\$975.00
TMA - Traffic Control	3	day	\$435.00		\$1,305.00
Concrete core	0	each	\$50.00		\$0.00
SUV or ATV Rental	0	day	150.00		\$0.00
Air Travel	0	each	675.00		\$0.00
Parking	0	day	25.00		\$0.00
Taxi/Cab fare	0	each	40.00		\$0.00
Standard Postage (Current State rate)	0	letter	0.55		\$0.00
Overnight express-letter size	0	each	15.00		\$0.00
Overnight express-oversized box	0	each	40.00		\$0.00
Courier Services	0	each	35.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.20		\$0.00
11"X17" B/W Paper Copies	0	each	0.40		\$0.00
8½"X11" Color Paper Copies	0	each	0.75		\$0.00
11"X17" Color Paper Copies	0	each	1.50		\$0.00
CADD Plotting	0	linear foot	1.50		\$0.00
Digital Ortho Plotting	0	linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	0	per search	600.00		\$0.00
Report Binding	0	each	8.00		\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	100.00		\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00		\$0.00
Custodian for Public Involvement	0	event	300.00		\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	500.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00		\$0.00
Translator (English to Spanish)	0	hour	100.00		\$0.00
Court Reporter	0	hour	125.00		\$0.00
Newspaper Advertisement	0	each	4,000.00		\$0.00
Plots (B/W on Bond)	0	linear foot	0.75		\$0.00
Plots (Color on Bond)	0	linear foot	1.75		\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00		\$0.00
					\$0.00
<b>Other Direct Expense Total</b>					<b>\$17,650.80</b>

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Wood Environmental &amp; Infrastructure Solutions, Inc., S9</b>		
PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Senior Project Manager	\$ 80.41	\$ 214.65
Senior Engineer	\$ 63.95	\$ 170.71
Senior Engineering Technician	\$ 33.15	\$ 88.49
Engineering Technician	\$ 31.69	\$ 84.60
CADD Operator	\$ 32.77	\$ 87.48
Admin / Clerical (Eng)	\$ 23.91	\$ 63.83
Field Engineer / Geologist	\$ 33.15	\$ 88.49
3D Animator / Graphics	\$ 51.86	\$ 138.44
Senior Architect	\$ 76.41	\$ 203.97
Architect	\$ 52.00	\$ 138.81
Audited Overhead Rate:	142.68%	
Negotiated Profit Rate:	10.00%	

**Exhibit D  
FEE SCHEDULE**

C & M Associates, Inc. S2 PROJECT: Tierra Este Rd. Extension						
Task Description	Project Manager	Project Engineer	Transportation Modeler	Technical Editor	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>A. Project Management</b>					136	\$ 24,936.07
1. Project Management/Work Plan						\$ 1,785.26
1.1. Project Management (C&M)	8				8	\$ 1,785.26
<b>2. Progress Reporting</b>						\$ 892.63
2.1. Monthly Progress Reports (C&M)	4				4	\$ 892.63
<b>3. Prepare and Submit Invoices</b>						\$ 892.63
3.1. Invoicing (C&M)	4				4	\$ 892.63
<b>4. Coordination/Administration</b>						\$ 21,365.54
4.1. Coordination (C&M)	16	4	4		24	\$ 4,608.03
4.1. One on-sight project meeting (C&M)	24	8	16		48	\$ 8,378.76
4.1. Coordination, preparation and presentation for consultative partners call (C&M)	24	8	16		48	\$ 8,378.76
					0	\$ -
<b>G. Schematic Design</b>					690	\$ 153,061.74
1. Data Collection					690	\$ 98,146.24
1.2. Traffic and Transportation Data (C&M)					0	\$ -
1.2.1. Acquire regional transportation and mobility studies, environmental, planning and land use, and feasibility studies	16	32	48		96	\$ 13,766.50
1.2.2.MPO travel demand model. (C&M)	16	32	65		113	\$ 15,780.91
1.2.3. Collect 24-hour classification counts at about 20 locations along Tierra Este Road, N Zaragoza Road, Sun Fire Boulevard, Montwood Drive, Windermere Avenue, Vista Del Sol Drive, Pellicano Drive, and Mission Ridge Boulevard. Collect 4 hours of turning movement counts at about 20 locations along the intersections within the study area. The exact count locations will be finalized after the traffic projections methodology has been approved.	6	12	32		50	\$ 6,821.36
1.2.4. Prepare Traffic Projections for opening and future (+20) years, and pavement design year (future +10). (C&M)					0	\$ -
1.2.4.1. Collect historical traffic data	4	8	16		28	\$ 3,915.60
1.2.4.2. Calculate historical growth factor.	2	4	4		10	\$ 1,483.82
1.2.4.3. Calculate corridor future growth factor based on Travel Demand Model.	2	8	8		18	\$ 2,521.33
1.2.4.4. Adjust corridor growth factor.	2	8	8		18	\$ 2,521.33
1.2.4.5. Traffic Projection Methodology Technical Memorandum.	24	24	32	8	88	\$ 13,293.11
1.2.4.6. Develop corridor projected volumes (for no-build and one build scenarios)					0	\$ -
1.2.4.6.1. Develop corridor daily projected volumes.	16	32	40		88	\$ 12,818.54
1.2.4.6.2. Develop corridor peak hour projected volumes.	16	32	40		88	\$ 12,818.54
1.2.4.7. Develop stick diagrams of projected volumes.	1	4	16		21	\$ 2,682.60
1.2.4.8. Traffic Projections Memorandum.	8	24	32	8	72	\$ 9,722.59
					0	\$ -
<b>5. Other Items</b>					400	\$ 54,915.51
5.6. Corridor microscopic traffic simulation and basic 3D animation (for no-build, and one future build scenarios) (C&M)	8	40	60		108	\$ 14,530.23
5.6.1. Extract and summarize measures of effectiveness such as intersection level of service. (C&M)	8	24	32		64	\$ 8,958.26
5.7. Prepare the traffic analysis report (C&M)	16	40	60	24	140	\$ 18,608.48
5.8. Prepare PM10 traffic input data (C&M)	16	32	40		88	\$ 12,818.54
<b>HOURS SUB-TOTALS</b>	<b>241</b>	<b>376</b>	<b>569</b>	<b>40</b>	<b>1226</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$223.16</b>	<b>\$140.88</b>	<b>\$118.49</b>	<b>\$95.54</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$53,781.00</b>	<b>\$52,971.65</b>	<b>\$67,423.51</b>	<b>\$3,821.64</b>	<b>\$177,997.81</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>19.66%</b>	<b>30.67%</b>	<b>46.41%</b>	<b>3.26%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>241</b>	<b>376</b>	<b>569</b>	<b>40</b>	<b>1226</b>	
<b>PROJECT TOTALS</b>	<b>\$53,781.00</b>	<b>\$52,971.65</b>	<b>\$67,423.51</b>	<b>\$3,821.64</b>	<b>\$177,997.81</b>	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>19.66%</b>	<b>30.67%</b>	<b>46.41%</b>	<b>3.26%</b>		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: C &amp; M Associates, Inc. S2</b>					
<b>PROJECT: Tierra Este Rd. Extension</b>					
<b>OTHER DIRECT EXPENSES</b>					
<b>Other Direct Expenses</b>	<b>UNITS</b>		<b>RATE</b>		
Lodging/Hotel (Taxes/fees not included)	11	night	96.00		\$1,056.00
Lodging/Hotel Taxes/fees	11	night	40.00		\$440.00
Meals (overnight stay required)	11	day	55.00		\$605.00
Rental Car (Tax/fees not included)	8	day	90.00		\$720.00
Rental Car Taxes/fees	8	day	25.00		\$200.00
Rental Car fuel	8	day	25.00		\$200.00
Mileage	500	mile	0.565		\$282.50
SUV or ATV Rental	0	day	150.00		\$0.00
Air Travel	4	each	675.00		\$2,700.00
Parking	9	day	25.00		\$225.00
Taxi/Cab fare	4	each	40.00		\$160.00
Standard Postage (Current State rate)	0	letter	0.55		\$0.00
Overnight express-letter size	0	each	15.00		\$0.00
Overnight express-oversized box	0	each	40.00		\$0.00
Courier Services	0	each	35.00		\$0.00
8½"X11" B/W Paper Copies	500	each	0.20		\$100.00
11"X17" B/W Paper Copies	0	each	0.40		\$0.00
8½"X11" Color Paper Copies	500	each	0.75		\$375.00
11"X17" Color Paper Copies	0	each	1.50		\$0.00
CADD Plotting	0	linear foot	1.50		\$0.00
Digital Ortho Plotting	0	linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	0	per search	600.00		\$0.00
Report Binding	0	each	8.00		\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	100.00		\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00		\$0.00
Custodian for Public Involvement	0	event	300.00		\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	500.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00		\$0.00
Translator (English to Spanish)	0	hour	100.00		\$0.00
Court Reporter	0	hour	125.00		\$0.00
Newspaper Advertisement	0	each	4,000.00		\$0.00
Plots (B/W on Bond)	0	linear foot	0.75		\$0.00
Plots (Color on Bond)	0	linear foot	1.75		\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00		\$0.00
24-Hour Classification Counts - Video Counts (20 locations)	960	Hrs* lanes	15.00		\$14,400.00
4-HR Peak Period Turning Movement Counts (20 locations)	100	Hrs * Location	60.00		\$6,000.00
<b>Other Direct Expense Total</b>					<b>\$27,463.50</b>



**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: C &amp; M Associates, Inc. S2</b>		
<b>PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Principal	\$ 114.53	\$ 341.41
Senior Project Manager	\$ 101.06	\$ 301.26
Quality Manager	\$ 101.06	\$ 301.26
Senior Planner	\$ 89.75	\$ 267.54
Project Manager	\$ 74.86	\$ 223.16
Senior Engineer	\$ 55.29	\$ 164.82
Project Engineer	\$ 47.26	\$ 140.88
Senior Transportation Modeler	\$ 44.13	\$ 131.55
EIT 3	\$ 40.00	\$ 119.24
Transportation Modeler	\$ 39.75	\$ 118.49
EIT 2	\$ 35.00	\$ 104.34
Technical Editor	\$ 32.05	\$ 95.54
Planner	\$ 30.00	\$ 89.43
GIS Specialist	\$ 30.00	\$ 89.43
EIT	\$ 30.00	\$ 89.43
Admin / Clerical (Eng)	\$ 30.00	\$ 89.43
Audited Overhead Rate:	171.00%	
Negotiated Profit Rate:	10.00%	

**Exhibit D  
FEE SCHEDULE**

Poznecki-Camarillo, Inc., S5  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Quality Manager	Admin / Clerical (Eng)	Public Outreach Manager	Field Engineering / Geologist	Noise Specialist	Senior NEPA Specialist	NEPA Specialist 3	GIS Tech	Project Outreach Specialist	Senior Planner	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>E. Environmental Studies (PCI / Blanton)</b>													779	\$ 103,494.57
<b>1. Need and Purpose</b>													35	\$ 4,624.57
1.1 Describe the proposed project and the transportation problem(s) or purpose and needs the proposed project is intended to address			2						10	4		4	20	\$ 2,773.57
1.2 Provide description of the proposed project history, early coordination/planning, and a discussion about the proposed project's relationship to regional and/or statewide planning/transportation plans (logical termini and independent utility, linkage to system, capacity, and projected traffic/transportation demand)									4				4	\$ 493.60
1.3 Provide description of bicycle and pedestrian accommodation considered									1				1	\$ 123.40
1.4 Provide description of the planning process, including agency public involvement, and TXDOT and local transportation planning									4				4	\$ 493.60
1.5 Provide description of public involvement conducted for the project and plans for future public involvement, if any									1				1	\$ 123.40
1.6 Provide description of cost and project funding									1				1	\$ 123.40
1.7 Provide applicable regulatory requirements and required coordination									2				2	\$ 246.80
1.8 Discuss any right of way and all easements									2				2	\$ 246.80
<b>2. Alternatives</b>													38	\$ 5,300.33
2.1 Describe alternatives considered for detailed study			4						16	8		8	36	\$ 5,053.53
2.1.1 Select a preferred alternative									2				2	\$ 246.80
<b>3. Affected Environment and Environmental Consequences</b>													28	\$ 3,760.77
3.1 Describe the existing human and natural environmental setting for the area affected by, and the potential direct effects of, the proposed project			4					4	12	8			28	\$ 3,760.77
<b>4. Socioeconomic Impacts</b>													90	\$ 12,680.84
4.1 Identify and evaluate the social and economic impacts			8						8			8	24	\$ 3,995.82
4.2 Use appropriate data sources, such as the U. S. Census, windshield surveys, maps, and aerial photographs to determine the potential for social impactsrelationship to regional and/or statewide planning/transportation plans (logical termini and independent utility, linkage to system, capacity, and projected traffic/transportation demand)			2						6	4			12	\$ 1,598.33
4.3 Use Demographics (population, ethnic/racial distribution, income) based on the most recent census or projections there from									2	1			3	\$ 358.45
4.4 Use other populations (disabled, elderly)									2	1			3	\$ 358.45
4.5 Land uses in the project area (community services, schools, etc.)									2	1			3	\$ 358.45
4.6 Mobility – pedestrian, bicycle, transit, cars									2	1			3	\$ 358.45
4.7 Safety (traffic and potential for crime)									2	1			3	\$ 358.45
4.8 Other potential impacts identified in studies of social impacts									2	1			3	\$ 358.45
4.9 Identify the property owners and tenants adjacent to roadway project										4			4	\$ 446.59
4.10 Identify all potential commercial and residential displacements			0						6	2			8	\$ 963.70
4.11 Identify potential replacement housing or other replacement sites			0						4				4	\$ 493.60
4.12 Identify the racial, ethnic and income level of affected individuals and communities									2				2	\$ 246.80
4.13 Develop mitigation measures for social, economic and community impacts for the build alternative			0						2				2	\$ 246.80
4.14 Use public contact and public involvement to gather information from individuals and communities regarding social impacts			0						2				2	\$ 246.80
4.15 Estimate losses and gains to tax revenues due to the location of the proposed project			0									6	6	\$ 1,022.46
4.16 Evaluate travel modes and patterns in the study area			0									6	6	\$ 1,022.46
4.17 Identify and evaluate the potential for impacts to disabled and elderly individuals and populations			0						2				2	\$ 246.80
<b>5. Land Use</b>													8	\$ 1,104.73
5.1 Develop a general description of the project area and analyze the potential impacts that the alternatives may have on land uses. Quantify the acreage that would be converted to transportation use and address the conformance of the proposed project with local and regional plans and policies			2						2	4			8	\$ 1,104.73
<b>6. Environmental Justice</b>													30	\$ 3,796.03
6.1 Conduct an environmental justice (EJ) analysis in accordance with the directives of FHWA Order 6640.23A (June 14, 2012) and US DOT Order 5610.2(a) (May 2, 2012)			2						8				10	\$ 1,398.54
6.2 Identify EJ communities within the study area to determine the number and percent of low income and minority populations										4			4	\$ 446.59

**Exhibit D  
FEE SCHEDULE**

Poznecki-Camarillo, Inc., S5  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Quality Manager	Admin / Clerical (Eng)	Public Outreach Manager	Field Engineering / Geologist	Noise Specialist	Senior NEPA Specialist	NEPA Specialist 3	GIS Tech	Project Outreach Specialist	Senior Planner	TOTAL LABOR HOURS	TOTAL LABOR COST
6.3 6.3. Determine if the project would have disproportionately high and adverse human health or environmental effects, including interrelated social and economic effects, on minority and low-income populations. Such effects to be qualitatively or quantitatively evaluated include:									8				8	\$ 987.20
6.3.1 Location impacts of an upgraded or new facility or its components relative to location of EJ populations, which could have an actual or perceived adverse effect									2	2			4	\$ 470.10
6.3.2 Associated user impacts where changes in the transportation network impact the travel patterns and access of EJ populations or result in a greater increase in diverted traffic through or near EJ populations									2				2	\$ 246.80
6.3.3 The potential denial of benefits or disparate effects associated with being unable to access or make use of the upgraded or new facility									2				2	\$ 246.80
<b>7. Airways-Highway Clearance</b>													<b>4</b>	<b>\$ 470.10</b>
7.1 Identify airports within 20,000 feet of the proposed project and discuss potential impacts									2	2			4	\$ 470.10
<b>8. Soils/Prime Farmland</b>													<b>12</b>	<b>\$ 1,433.79</b>
8.1 Identify the geological resources and soils types within the project area according to the Natural Resources Conservation Service (NRCS) mapping units and address compliance with the Farmland Protection Policy Act (FPPA)									8	4			12	\$ 1,433.79
<b>9. Beneficial Landscape Practices</b>													<b>1</b>	<b>\$ 123.40</b>
9.1 Address the Executive Memorandum related to Beneficial Landscape Practices									1				1	\$ 123.40
<b>10. Invasive Species</b>													<b>1</b>	<b>\$ 123.40</b>
10.1 Address the Executive Order related to Invasive Species									1				1	\$ 123.40
<b>11. Vegetation</b>													<b>28</b>	<b>\$ 3,431.70</b>
11.1 Categorize and evaluate the vegetation of the study area according to TXDOT's Memorandum of Agreement (MOA) and Memorandum of Understanding (MOU) with the Texas Parks and Wildlife Department (TPWD)								4	16	8			28	\$ 3,431.70
<b>12. Wild Life</b>													<b>12</b>	<b>\$ 1,551.32</b>
12.1 Identify wildlife habitat in the study area and address potential impacts on wildlife and address Mitigation of potential impacts including habitat loss and fragmentation and construction in wildlife areas								4	8				12	\$ 1,551.32
<b>13. Threatened and Endangered Species</b>													<b>22</b>	<b>\$ 2,761.81</b>
13.1 Obtain data from the United States Fish and Wildlife Service (USFWS) and the TPWD to determine the potential presence or absence of federally listed and proposed endangered or threatened species and critical habitat in the study area								4	16	2			22	\$ 2,761.81
<b>20. Noise</b>													<b>186</b>	<b>\$ 24,345.10</b>
20.1 Conduct a traffic noise analysis of the build alternative in accordance with the current version of TXDOT's (FHWA approved) "Guidelines for Analysis and Abatement of Roadway Traffic Noise"							100	8		20		8	136	\$ 17,945.91
20.2 Propose noise abatement measures							20	4		8			32	\$ 4,101.59
20.3 Determine predicted (future) noise impact contours for transportation activities where there is adjacent undeveloped property where residential or commercial development is likely to occur in the near future							12						12	\$ 1,586.57
20.4 Document the findings of the traffic noise analysis in the EA							2			4			6	\$ 711.02
<b>23. Hazardous Materials</b>													<b>84</b>	<b>\$ 10,224.59</b>
23.1 Conduct an Initial Site Assessment (ISA) to determine if the alternatives under study have the potential to impact municipal, industrial, and hazardous waste sites and materials						60			12	12			84	\$ 10,224.59
<b>24. Visual and Aesthetic Qualities</b>													<b>2</b>	<b>\$ 282.06</b>
24.1 Provide a description of the visual quality of current conditions, including any unique visual or aesthetic qualities in the project area								2					2	\$ 282.06
<b>25. Permit Requirements</b>													<b>2</b>	<b>\$ 282.06</b>
25.1 Identify the need for permits for the proposed project								2					2	\$ 282.06
<b>26. Mitigation and Commitments</b>													<b>12</b>	<b>\$ 1,551.32</b>
issues and commitments and monitoring of commitments made with resource and regulatory agencies, as appropriate								4	8				12	\$ 1,551.32
<b>27. Construction Impacts</b>													<b>12</b>	<b>\$ 1,551.32</b>
27.1 Assess Potential adverse impacts associated with construction of the proposed project								4	8				12	\$ 1,551.32
<b>28. Indirect and Cumulative Impacts</b>													<b>40</b>	<b>\$ 5,864.45</b>
using the latest processes, procedures, and guidance issued by TXDOT and supplemented by guidance issued by National Cooperative Highway Research Program (NCHRP)								6	4	10		20	40	\$ 5,864.45

**Exhibit D  
FEE SCHEDULE**

Poznecki-Camarillo, Inc., S5  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Quality Manager	Admin / Clerical (Eng)	Public Outreach Manager	Field Engineering / Geologist	Noise Specialist	Senior NEPA Specialist	NEPA Specialist 3	GIS Tech	Project Outreach Specialist	Senior Planner	TOTAL LABOR HOURS	TOTAL LABOR COST
29. Conclusion													2	\$ 246.80
29.1 Identify discuss how the Build Alternative meets the project purpose and needs, explain the technical and economic considerations, and the rationale for selecting the Build Alternative									2				2	\$ 246.80
30. EA Submittals													80	\$ 11,364.57
30.1 EA Review/Revision		8	16	8					40	8			80	\$ 11,364.57
31. EA for Environmental Decision													38	\$ 5,100.54
EA, update the EA and associated technical support documentation, as appropriate		2	8	4					8	16			38	\$ 5,100.54
32. Decision Document													12	\$ 1,519.00
32.1 Support TXDOT in the preparation and processing of the Finding of No Significant Impact (FONSI) for approval, if applicable. The Engineer shall prepare the Section 139(l) Statute of Limitations notice for processing and publication in the Federal Register, if applicable			2	2					8				12	\$ 1,519.00
<b>HOURS SUB-TOTALS</b>	<b>0</b>	<b>10</b>	<b>50</b>	<b>14</b>	<b>0</b>	<b>60</b>	<b>134</b>	<b>46</b>	<b>265</b>	<b>140</b>	<b>0</b>	<b>60</b>	<b>779</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$279.12</b>	<b>\$220.36</b>	<b>\$205.67</b>	<b>\$60.23</b>	<b>\$152.78</b>	<b>\$123.40</b>	<b>\$132.21</b>	<b>\$141.03</b>	<b>\$123.40</b>	<b>\$111.65</b>	<b>\$111.65</b>	<b>\$170.41</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$0.00</b>	<b>\$2,203.58</b>	<b>\$10,283.35</b>	<b>\$843.23</b>	<b>\$0.00</b>	<b>\$7,404.01</b>	<b>\$17,716.74</b>	<b>\$6,487.32</b>	<b>\$32,701.05</b>	<b>\$15,630.69</b>	<b>\$0.00</b>	<b>\$10,224.59</b>	<b>\$103,494.57</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>0.00%</b>	<b>1.28%</b>	<b>6.42%</b>	<b>1.80%</b>	<b>0.00%</b>	<b>7.70%</b>	<b>17.20%</b>	<b>5.91%</b>	<b>34.02%</b>	<b>17.97%</b>	<b>0.00%</b>	<b>7.70%</b>		
<b>F. Public Involvement Activities (PCI / DEC Assist)</b>													270	\$ 34,140.72
<b>1. Public Involvement Program</b>													270	\$ 34,140.72
1.1 Preparation of a Public Involvement Plan													0	\$ -
1.1.1 Prepare a public involvement plan													0	\$ -
1.2 Preparation of Contact Mailing List and Database													0	\$ -
1.2.1 Compile and maintain a contact mailing list and database									2	2	20		24	\$ 2,703.05
1.2.2 Prepare and maintain Federal and TXDOT Legislative District maps including Legislator contact information									4	4			8	\$ 940.19
1.2.3 Provide responses of public comments per meeting/hearing submitted via the CRRMA website					8								8	\$ 1,222.25
1.3 Agency Coordination													0	\$ -
1.3.1 Schedule, conduct and attend agency coordination meetings													0	\$ -
1.3.2 Prepare draft and final agendas, exhibits, handouts, sign-in sheets, and presentations, etc.													0	\$ -
1.3.3 Prepare draft and final meeting notes													0	\$ -
1.3.4 Document comments received and prepare responses													0	\$ -
1.4 Public Meetings													0	\$ -
1.4.1 Schedule, conduct and attend public meetings (assume 1 meeting).													0	\$ -
1.4.2. Prepare public meeting materials including sign-in sheets, flyers, meeting notices, meeting posters, exhibits, comment form, agenda, welcome letter, display ad, legal notice, press release, posters, script, presentation, press kits, and other meeting materials					4				8		10		22	\$ 2,714.80
1.4.3 Coordinate preparation and review of public meeting materials (2 reviews)					2								2	\$ 305.56
1.4.4. Arrange for facilities, translation of materials, court reporter, interpreter, security, cleanup, etc.											2		2	\$ 223.30
1.4.5. Prepare and mail letters to interested parties and elected officials											2		2	\$ 223.30
1.4.9. Provide staff for public meeting					8			8	8		8		32	\$ 4,230.86
1.4.10. Schedule and make facility and equipment arrangements.													0	\$ -
1.4.11. Coordinate meeting facility set-up													0	\$ -
1.4.12. Coordinate meeting logistics													0	\$ -
1.4.13. Generate, review and summarize transcripts													0	\$ -
1.4.14. Document the comments received and prepare responses					2			2	8				12	\$ 1,574.82
1.4.15. Prepare draft and final Public Meeting Summary Report					6			6	40		8		60	\$ 7,592.05
1.5 Public Hearing													0	\$ -
1.5.1. The Engineer shall schedule, conduct and attend public hearing (assume 1 hearing)													0	\$ -
1.5.2. Prepare public hearing materials including sign-in sheets, flyers, meeting notices, meeting posters, exhibits, comment form, agenda, welcome letter, display ad, legal notice, press release, posters, script, presentation, press kits, and other meeting materials					4				8		10		22	\$ 2,714.80
1.5.5. Prepare and mail letters to interested parties and elected officials											8		8	\$ 893.18
1.5.9. The Engineer shall provide staff for public hearing					8			8	8		8		32	\$ 4,230.86
1.5.14. The Engineer shall coordinate Public Hearing Certification for incorporation in the Public Hearing Summary Report											2		2	\$ 223.30
1.5.15. Prepare draft and final Public Hearing Summary Report					3			3	20		4		30	\$ 3,796.03

**Exhibit D  
FEE SCHEDULE**

Poznecki-Camarillo, Inc., S5  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Senior Project Manager	Quality Manager	Admin / Clerical (Eng)	Public Outreach Manager	Field Engineering / Geologist	Noise Specialist	Senior NEPA Specialist	NEPA Specialist 3	GIS Tech	Project Outreach Specialist	Senior Planner	TOTAL LABOR HOURS	TOTAL LABOR COST
1.6 Summarize the activities in the EA, including all agency and public coordination efforts, meeting dates, number of attendees, locations, common comments, and how public comments were addressed					2				2				4	\$ 552.36
<b>HOURS SUB-TOTALS</b>	0	0	0	0	47	0	0	27	108	6	82	0	270	
<b>CONTRACT RATE PER HOUR</b>	\$279.12	\$220.36	\$205.67	\$60.23	\$152.78	\$123.40	\$132.21	\$141.03	\$123.40	\$111.65	\$111.65	\$170.41		
<b>TOTAL LABOR COSTS</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$7,180.72	\$0.00	\$0.00	\$3,807.78	\$13,327.22	\$669.89	\$9,155.12	\$0.00	\$34,140.72	
<b>% DISTRIBUTION OF STAFF HOURS</b>	0.00%	0.00%	0.00%	0.00%	17.41%	0.00%	0.00%	10.00%	40.00%	2.22%	30.37%	0.00%		
<b>I. Stakeholder Coordination (PCI/DEC)</b>													228	\$ 29,663.06
<b>1. Stakeholder Involvement Activities</b>													228	\$ 29,663.06
1.2 Facilitate meetings					40			40	32	48			160	\$ 21,060.30
1.6 Prepare Meeting Summary, including a response to comments received					12			8	24	24			68	\$ 8,602.76
<b>HOURS SUB-TOTALS</b>	0	0	0	0	52	0	0	48	56	72	0	0	228	
<b>CONTRACT RATE PER HOUR</b>	\$279.12	\$220.36	\$205.67	\$60.23	\$152.78	\$123.40	\$132.21	\$141.03	\$123.40	\$111.65	\$111.65	\$170.41		
<b>TOTAL LABOR COSTS</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$7,944.62	\$0.00	\$0.00	\$6,769.38	\$6,910.41	\$8,038.64	\$0.00	\$0.00	\$29,663.06	
<b>% DISTRIBUTION OF STAFF HOURS</b>	0.00%	0.00%	0.00%	0.00%	22.81%	0.00%	0.00%	21.05%	24.56%	31.58%	0.00%	0.00%		
<b>TOTAL PROJECT HOURS</b>	0	10	50	14	99	60	134	121	429	218	82	60	1277	
<b>PROJECT TOTALS</b>	\$0.00	\$2,203.58	\$10,283.35	\$843.23	\$15,125.34	\$7,404.01	\$17,716.74	\$17,064.48	\$52,938.69	\$24,339.22	\$9,155.12	\$10,224.59	\$167,298.35	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	0.00%	0.78%	3.92%	1.10%	7.75%	4.70%	10.49%	9.48%	33.59%	17.07%	6.42%	4.70%		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Poznecki-Camarillo, Inc., S5</b>					
<b>PROJECT: Tierra Este Rd. Extension</b>					
<b>OTHER DIRECT EXPENSES</b>					
<b>Other Direct Expenses</b>	<b>UNITS</b>		<b>RATE</b>		
Lodging/Hotel (Taxes/fees not included)	30	night	96.00		\$2,880.00
Lodging/Hotel Taxes/fees	30	night	40.00		\$1,200.00
Meals (overnight stay required)	30	day	55.00		\$1,650.00
Rental Car (Tax/fees not included)	30	day	90.00		\$2,700.00
Rental Car Taxes/fees	30	day	25.00		\$750.00
Rental Car fuel	30	day	25.00		\$750.00
Mileage	0	mile	0.565		\$0.00
SUV or ATV Rental	0	day	150.00		\$0.00
Air Travel	21	each	675.00		\$14,175.00
Parking	30	day	25.00		\$750.00
Taxi/Cab fare	20	each	40.00		\$800.00
Standard Postage (Current State rate)	3000	letter	0.55		\$1,650.00
Overnight express-letter size	2	each	15.00		\$30.00
Overnight express-oversized box	2	each	40.00		\$80.00
Courier Services	2	each	35.00		\$70.00
8½"X11" B/W Paper Copies	1000	each	0.20		\$200.00
11"X17" B/W Paper Copies	250	each	0.40		\$100.00
8½"X11" Color Paper Copies	3000	each	0.75		\$2,250.00
11"X17" Color Paper Copies	500	each	1.50		\$750.00
CADD Plotting	0	linear foot	1.50		\$0.00
Digital Ortho Plotting	0	linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	4	per search	600.00		\$2,400.00
Report Binding	15	each	8.00		\$120.00
Presentation Boards 30"X40" Color Mounted	30	each	100.00		\$3,000.00
Color Graphics on Foam Board	100	sq. ft.	10.00		\$1,000.00
Custodian for Public Involvement	0	event	300.00		\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	500.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	12	day	50.00		\$600.00
Translator (English to Spanish)	0	hour	100.00		\$0.00
Court Reporter	0	hour	125.00		\$0.00
Newspaper Advertisement	0	each	4,000.00		\$0.00
Plots (B/W on Bond)	0	linear foot	0.75		\$0.00
Plots (Color on Bond)	0	linear foot	1.75		\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00		\$0.00
					\$0.00
<b>Other Direct Expense Total</b>					<b>\$37,905.00</b>

## Exhibit D FEE SCHEDULE

SUBCONSULTANT: Poznecki-Camarillo, Inc., S5		
PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC		
PROJECT: Tierra Este Rd. Extension		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Principal	\$ 95.00	\$ 279.12
Senior Project Manager	\$ 75.00	\$ 220.36
Deputy Project Manager	\$ 65.00	\$ 190.98
Senior Bridge Engineer	\$ 58.00	\$ 170.41
Senior Engineer	\$ 55.00	\$ 161.60
Project Engineer	\$ 46.00	\$ 135.15
Design Engineer	\$ 41.00	\$ 120.46
EIT	\$ 31.00	\$ 91.08
EIT 2	\$ 34.00	\$ 99.90
EIT 3	\$ 38.00	\$ 111.65
Quality Manager	\$ 70.00	\$ 205.67
Senior Engineering Technician	\$ 36.00	\$ 105.77
Engineering Technician	\$ 30.00	\$ 88.14
Senior CADD Operator	\$ 31.00	\$ 91.08
CADD Operator	\$ 28.50	\$ 83.74
GIS Specialist	\$ 32.50	\$ 95.49
Admin / Clerical (Eng)	\$ 20.50	\$ 60.23
Admin Assistant 2	\$ 21.00	\$ 61.70
Admin Assistant 3	\$ 25.00	\$ 73.45
Public Outreach Manager	\$ 52.00	\$ 152.78
Survey Project Manager	\$ 60.00	\$ 176.29
Registered Professional Land Surveyor	\$ 55.00	\$ 161.60
Survey Technician	\$ 29.00	\$ 85.20
Survey Technician - GPS	\$ 30.50	\$ 89.61
2-man Survey Crew (Portal to Portal)	\$ 52.76	\$ 155.01
3-man Survey Crew (Portal to Portal)	\$ 64.67	\$ 190.01
4-man Survey Crew (Portal to Portal)	\$ 71.48	\$ 210.02
Flagger	\$ 26.00	\$ 76.39
Admin / Clerical (Surv)	\$ 20.50	\$ 60.23
Field Engineering / Geologist	\$ 42.00	\$ 123.40
Utility Engineer	\$ 46.00	\$ 135.15
Senior Utility Coordinator	\$ 40.00	\$ 117.52
Utilities Coordinator	\$ 36.00	\$ 105.77
Senior Utilities Field Inspector	\$ 36.00	\$ 105.77
Utilities Field Inspector	\$ 32.00	\$ 94.02
Senior 3D Animator / Graphics	\$ 45.00	\$ 132.21
3D Animator / Graphics	\$ 38.00	\$ 111.65
Senior Env. Scientist	\$ 42.00	\$ 123.40
Air Quality Specialist	\$ 40.00	\$ 117.52
Noise Specialist	\$ 45.00	\$ 132.21
Env. Specialist 3	\$ 39.00	\$ 114.59
Env. Specialist 2	\$ 37.00	\$ 108.71
Senior NEPA Specialist	\$ 48.00	\$ 141.03
NEPA Specialist 3	\$ 42.00	\$ 123.40
Biologist 2	\$ 37.00	\$ 108.71
Biologist 1	\$ 33.00	\$ 96.96
Field Tech	\$ 28.00	\$ 82.27
Senior GIS Tech	\$ 42.00	\$ 123.40
GIS Tech	\$ 38.00	\$ 111.65
Technical Editor	\$ 32.00	\$ 94.02
Project Outreach Specialist	\$ 38.00	\$ 111.65
Photographer / Videographer	\$ 35.00	\$ 102.83
Social Media Specialist	\$ 35.00	\$ 102.83
Project Manager	\$ 65.00	\$ 190.98
Senior Env. Specialist 2	\$ 45.00	\$ 132.21
Env. Professional 2	\$ 38.00	\$ 111.65
Env. Professional 1	\$ 36.00	\$ 105.77
Env. Staff 2	\$ 35.00	\$ 102.83
Env. Staff 1	\$ 32.00	\$ 94.02
Env. Technician 2	\$ 30.00	\$ 88.14
Env. Technician 1	\$ 28.00	\$ 82.27
Senior Planner	\$ 58.00	\$ 170.41
Planner	\$ 48.00	\$ 141.03
Bridge Engineer	\$ 50.00	\$ 146.91
Audited Overhead Rate:	167.10%	
Negotiated Profit Rate:	10.00%	

**Exhibit D  
FEE SCHEDULE**

Blanton & Associates, Inc. S1  
PROJECT: Tierra Este Rd. Extension

Task Description	Senior Project Manager	Senior Env. Scientist	Air Quality Specialist	Env. Scientist 2	Senior Historian	Senior Archeologist	Archeologist	Senior GIS Tech	Technical Editor	Env. Staff 1	Env. Technician 1	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>E. Environmental Studies (PCI / Blanton)</b>												1204	\$ 134,352.34
1. Need and Purpose												0	\$ -
Information for Constraints Map/Evaluation Matrix	8				4	4		16				32	\$ 3,833.09
4. Socioeconomic Impacts												0	\$ -
Waters of the US delineation and Report	4	80		16				32		48	40	220	\$ 25,814.58
15. Water Quality												10	\$ 1,314.24
Water Quality Write-Up		8		1				1				10	\$ 1,314.24
16. Flood Plains												2	\$ 213.98
Document Floodplain Impacts		1						1				2	\$ 213.98
18. Archeological Resources												0	\$ -
Archeology Background Study	2			4		24	8	16	8			62	\$ 6,107.58
Archeological Survey and Report	4			8		180	120	80	24	120		536	\$ 54,257.65
19. Historic Resource Studies												58	\$ 6,165.70
19.1 Perform an archeological background study and archeological survey in accordance with the specifications as shown on Scope Document												0	\$ -
Conduct Historic Resources Survey and prepare HRSR												0	\$ -
Air Quality Technical Report												0	\$ -
county or counties where the project is located and a list of												0	\$ -
Air quality cumulative and indirect impact analysis	2	2	8									12	\$ 1,706.53
A statement of construction activities	1		1						1			3	\$ 380.40
Respond to public comments received on air quality issues	4	8	16						4			32	\$ 4,268.97
22. Section 4(f) Properties												10	\$ 1,138.57
Section 4(f) Assessment	1			2				1	1			5	\$ 569.28
Section 6(f) Assessment	1			2				1	1			5	\$ 569.28
23. Hazardous Materials												0	\$ -
Identify the need for permits for the proposed project		4		2				2				8	\$ 980.07
24. Indirect and Cumulative Impacts												0	\$ -
ICI	4	16	16		1	8		16	8			69	\$ 8,231.50
Conclusion												0	\$ -
· Archeological Background Study and Survey Report												0	\$ -
· Section 4(f) property assessment provided in EA												0	\$ -
· Biological Evaluation Form												0	\$ -
· Hazardous Materials ISA												0	\$ -
· Environmental Assessment Outline												0	\$ -
· Historic Resources Survey Report												0	\$ -
· Decision Document/FONSI												0	\$ -
<b>CONTRACT RATE PER HOUR</b>	<b>\$166.43</b>	<b>\$137.37</b>	<b>\$137.37</b>	<b>\$110.95</b>	<b>\$110.95</b>	<b>\$97.08</b>	<b>\$89.82</b>	<b>\$104.35</b>	<b>\$76.61</b>	<b>\$118.88</b>	<b>\$105.67</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$10,817.72</b>	<b>\$18,544.66</b>	<b>\$13,874.15</b>	<b>\$4,992.79</b>	<b>\$3,217.58</b>	<b>\$20,969.73</b>	<b>\$11,496.63</b>	<b>\$18,886.76</b>	<b>\$7,354.46</b>	<b>\$19,971.17</b>	<b>\$4,226.70</b>	<b>\$134,352.34</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>5.40%</b>	<b>11.21%</b>	<b>8.39%</b>	<b>3.74%</b>	<b>2.41%</b>	<b>17.94%</b>	<b>10.63%</b>	<b>15.03%</b>	<b>7.97%</b>	<b>13.95%</b>	<b>3.32%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>65</b>	<b>135</b>	<b>101</b>	<b>45</b>	<b>29</b>	<b>216</b>	<b>128</b>	<b>181</b>	<b>96</b>	<b>168</b>	<b>40</b>	<b>1204</b>	
<b>PROJECT TOTALS</b>	<b>\$10,817.72</b>	<b>\$18,544.66</b>	<b>\$13,874.15</b>	<b>\$4,992.79</b>	<b>\$3,217.58</b>	<b>\$20,969.73</b>	<b>\$11,496.63</b>	<b>\$18,886.76</b>	<b>\$7,354.46</b>	<b>\$19,971.17</b>	<b>\$4,226.70</b>	<b>\$134,352.34</b>	
<b>EXPENSES</b>												<b>\$18,210.00</b>	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>5.40%</b>	<b>11.21%</b>	<b>8.39%</b>	<b>3.74%</b>	<b>2.41%</b>	<b>17.94%</b>	<b>10.63%</b>	<b>15.03%</b>	<b>7.97%</b>	<b>13.95%</b>	<b>3.32%</b>	<b>\$152,562.34</b>	<b>TOTAL</b>



**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Blanton &amp; Associates, Inc. S1</b>				
<b>PROJECT: Tierra Este Rd. Extension</b>				
<b>OTHER DIRECT EXPENSES</b>				
<b>Other Direct Expenses</b>	<b>UNITS</b>		<b>RATE</b>	
Lodging/Hotel (Taxes/fees not included)	20	night	96.00	\$1,920.00
Lodging/Hotel Taxes/fees	20	night	40.00	\$800.00
Meals (overnight stay required)	30	day	55.00	\$1,650.00
Rental Car (Tax/fees not included)	6	day	90.00	\$540.00
Rental Car Taxes/fees	11	day	25.00	\$275.00
Rental Car fuel	11	day	25.00	\$275.00
Mileage	0	mile	0.565	\$0.00
SUV or ATV Rental	5	day	150.00	\$750.00
Air Travel	10	each	675.00	\$6,750.00
Parking	30	day	25.00	\$750.00
Taxi/Cab fare	0	each	40.00	\$0.00
Standard Postage (Current State rate)	0	letter	0.55	\$0.00
Overnight express-letter size	0	each	15.00	\$0.00
Overnight express-oversized box	0	each	40.00	\$0.00
Courier Services	0	each	35.00	\$0.00
8½"X11" B/W Paper Copies	0	each	0.20	\$0.00
11"X17" B/W Paper Copies	0	each	0.40	\$0.00
8½"X11" Color Paper Copies	0	each	0.75	\$0.00
11"X17" Color Paper Copies	0	each	1.50	\$0.00
CADD Plotting	0	linear foot	1.50	\$0.00
Digital Ortho Plotting	0	linear foot	1.75	\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00	\$0.00
Notebooks	0	each	10.00	\$0.00
Hazardous Materials Database Search	0	per search	600.00	\$0.00
Report Binding	0	each	8.00	\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	100.00	\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00	\$0.00
Custodian for Public Involvement	0	event	300.00	\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	500.00	\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00	\$0.00
Translator (English to Spanish)	0	hour	100.00	\$0.00
Court Reporter	0	hour	125.00	\$0.00
Newspaper Advertisement	0	each	4,000.00	\$0.00
Plots (B/W on Bond)	0	linear foot	0.75	\$0.00
Plots (Color on Bond)	0	linear foot	1.75	\$0.00
Archeological Curation	1	project	3,000.00	\$3,000.00
Backhoe Rental	1	day	1,500.00	\$1,500.00
<b>Other Direct Expense Total</b>				<b>\$18,210.00</b>

**Exhibit D  
FEE SCHEDULE**

<b>Dannenbaum Engineering Company - El Paso, LLC SUBCONSULTAN: Blanton &amp; Associates, Inc. S1</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Senior Project Manager	\$ 63.00	\$ 166.43
Senior Env. Scientist	\$ 52.00	\$ 137.37
Air Quality Specialist	\$ 52.00	\$ 137.37
Noise Specialist	\$ 52.00	\$ 137.37
Env. Scientist 3	\$ 46.00	\$ 121.52
Env. Scientist 2	\$ 42.00	\$ 110.95
Senior NEPA Specialist	\$ 49.50	\$ 130.76
NEPA Specialist 3	\$ 40.50	\$ 106.99
Senior Historian	\$ 42.00	\$ 110.95
Senior Archeologist	\$ 36.75	\$ 97.08
Archeologist	\$ 34.00	\$ 89.82
Biologist 2	\$ 32.50	\$ 85.85
Biologist 1	\$ 30.50	\$ 80.57
Field Tech	\$ 30.50	\$ 80.57
Senior GIS Tech	\$ 39.50	\$ 104.35
GIS Tech	\$ 29.00	\$ 76.61
Technical Editor	\$ 29.00	\$ 76.61
Env. Professional 2	\$ 36.75	\$ 97.08
Env. Professional 1	\$ 34.00	\$ 89.82
Env. Staff 2	\$ 63.00	\$ 166.43
Env. Staff 1	\$ 45.00	\$ 118.88
Env. Technician 2	\$ 55.00	\$ 145.29
Env. Technician 1	\$ 40.00	\$ 105.67
Audited Overhead Rate:	137.99%	
Negotiated Profit Rate:	11.00%	

**Exhibit D  
FEE SCHEDULE**

GRV Integrated Engineering Solutions, LLC, S4  
PROJECT: Tierra Este Rd. Extension

Task Description	Senior Project Manager	Project Engineer	Quality Manager	Senior Engineering Technician	Admin Assistant 3	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>G. Schematic Design</b>						0	
5. Other Items to support the engineering design effort						0	\$ -
5.6. New Traffic signal design and analysis at up to three intersections. (GRV)						0	\$ -
<b>Deliverables</b>						0	\$ -
- Preliminary (30, 60, 90 and 100 percent) Design Schematic						0	\$ -
- Technical memorandum on traffic projections methodology, traffic analysis, illumination warrant analysis, drainage analysis, and aesthetics						0	\$ -
- Stick diagrams on projected traffic volumes						0	\$ -
						0	\$ -
<b>HOURS SUB-TOTALS</b>	0	0	0	0	0	0	
<b>CONTRACT RATE PER HOUR</b>	\$177.94	\$104.67	\$143.92	\$75.89	\$104.67		
<b>TOTAL LABOR COSTS</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>% DISTRIBUTION OF STAFF HOURS</b>	0.00%	0.00%	0.00%	0.00%	0.00%		
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>						506	\$ 52,398.60
5. Roadway Design						506	\$ 52,398.60
5.3 Detail Design Elements							
5.3.1.2. Develop traffic signal modification plans showing types and locations of proposed signal poles, pedestrian poles, signal heads, electrical service, signal cabinet, electrical pull boxes, conduit locations, vehicle detection, communication equipment, and roadway improvements (GRV).	4	24		40		68	\$ 6,259.36
5.3.1.3. Develop signal conduit chart and electrical wiring details for Signals (GRV).	2	16		16		34	\$ 3,244.82
5.3.1.6. Perform electrical calculations and determine the required conduit, conductor, and breaker sizes (GRV).	4	16				20	\$ 2,386.51
5.3.1.7. Identify electrical service location with El Paso Electric Company, as needed (GRV).	4	4				8	\$ 1,130.45
5.3.1.8. Provide new traffic signal loads to El Paso Electric Company, as needed. (GRV)	2					2	\$ 355.88
5.3.1.9. Develop general notes, signal plan sheets, and sheets consisting of the conductor/conduit schedule (GRV).	4				8	12	\$ 1,549.14
5.3.1.10. Tabulate signal quantities and provide summary sheets. (GRV)	2	8		8		18	\$ 1,800.35
5.3.3. Traffic signal plans for up to three new intersections and modify one signal.(GRV)						0	\$ -
5.3.3.1. Follow the Texas Manual on Uniform Traffic Control Devices and maintaining agency standards	8	8				16	\$ 2,260.91
5.3.3.2. Develop traffic signal plans showing types and locations of proposed signal poles, pedestrian poles, signal heads, electrical service, signal cabinet, electrical pull boxes, conduit locations, vehicle detection, communication equipment, and roadway improvements	24	80	8	120		232	\$ 22,902.15
5.3.3.3. Develop signal conduit chart and electrical wiring details.	4	12		16		32	\$ 3,182.02
5.3.3.4. Perform electrical calculations and determine the required conduit, conductor, and breaker sizes.	4	4				8	\$ 1,130.45
5.3.3.5. Identify electrical service location with El Paso Electric Company, as needed.	4	4				8	\$ 1,130.45
5.3.3.6. Provide new traffic signal loads to El Paso Electric Company, as needed.	2	2				4	\$ 565.23
5.3.3.7. Develop general notes, signal plan sheets, and sheets consisting of the conductor/conduit schedule.	4	4			4	12	\$ 1,549.14
5.3.3.8. Tabulate signal quantities and provide summary sheets.	4	4		24		32	\$ 2,951.74
<b>HOURS SUB-TOTALS</b>	76	186	8	224	12	506	
<b>CONTRACT RATE PER HOUR</b>	\$177.94	\$104.67	\$143.92	\$75.89	\$104.67		
<b>TOTAL LABOR COSTS</b>	\$13,523.57	\$19,468.92	\$1,151.39	\$16,998.67	\$1,256.06	\$52,398.60	
<b>% DISTRIBUTION OF STAFF HOURS</b>	15.02%	36.76%	1.58%	44.27%	2.37%		
<b>TOTAL PROJECT HOURS</b>	76	186	8	224	12	506	
<b>PROJECT TOTALS</b>	\$13,523.57	\$19,468.92	\$1,151.39	\$16,998.67	\$1,256.06	\$52,398.60	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	15.02%	36.76%	1.58%	44.27%	2.37%		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: GRV Integrated Engineering Solutions, LLC, S4</b>					
<b>PROJECT: Tierra Este Rd. Extension</b>					
<b>OTHER DIRECT EXPENSES</b>					
<b>Other Direct Expenses</b>	<b>UNITS</b>		<b>RATE</b>		
Lodging/Hotel (Taxes/fees not included)	0	night	96.00		\$0.00
Lodging/Hotel Taxes/fees	0	night	40.00		\$0.00
Meals (overnight stay required)	0	day	55.00		\$0.00
Rental Car (Tax/fees not included)	0	day	90.00		\$0.00
Rental Car Taxes/fees	0	day	25.00		\$0.00
Rental Car fuel	0	day	25.00		\$0.00
Mileage	500	mile	0.565		\$282.50
SUV or ATV Rental	0	day	150.00		\$0.00
Air Travel	0	each	675.00		\$0.00
Parking	0	day	25.00		\$0.00
Taxi/Cab fare	0	each	40.00		\$0.00
Standard Postage (Current State rate)	10	letter	0.55		\$5.50
Overnight express-letter size	4	each	15.00		\$60.00
Overnight express-oversized box	0	each	40.00		\$0.00
Courier Services	0	each	35.00		\$0.00
8½"X11" B/W Paper Copies	1000	each	0.20		\$200.00
11"X17" B/W Paper Copies	2000	each	0.40		\$800.00
8½"X11" Color Paper Copies	0	each	0.75		\$0.00
11"X17" Color Paper Copies	500	each	1.50		\$750.00
CADD Plotting	200	linear foot	1.50		\$300.00
Digital Ortho Plotting	0	linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	0	per search	600.00		\$0.00
Report Binding	0	each	8.00		\$0.00
Presentation Boards 30'X40" Color Mounted	0	each	100.00		\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00		\$0.00
Custodian for Public Involvement	0	event	300.00		\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	500.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00		\$0.00
Translator (English to Spanish)	0	hour	100.00		\$0.00
Court Reporter	0	hour	125.00		\$0.00
Newspaper Advertisement	0	each	4,000.00		\$0.00
Plots (B/W on Bond)	0	linear foot	0.75		\$0.00
Plots (Color on Bond)	0	linear foot	1.75		\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00		\$0.00
					\$0.00
<b>Other Direct Expense Total</b>					<b>\$2,398.00</b>

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: GRV Integrated Engineering Solutions, LLC, S4</b>		
<b>PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Principal	\$ 72.00	\$ 188.41
Senior Project Manager	\$ 68.00	\$ 177.94
Deputy Project Manager	\$ 60.00	\$ 157.01
Senior Engineer	\$ 64.00	\$ 167.47
Project Engineer	\$ 40.00	\$ 104.67
Design Engineer	\$ 35.00	\$ 91.59
EIT	\$ 30.00	\$ 78.50
EIT 2	\$ 32.00	\$ 83.74
EIT 3	\$ 33.00	\$ 86.35
Quality Manager	\$ 55.00	\$ 143.92
Senior Engineering Technician	\$ 29.00	\$ 75.89
Engineering Technician	\$ 25.00	\$ 65.42
Senior CADD Operator	\$ 29.00	\$ 75.89
CADD Operator	\$ 25.00	\$ 65.42
Scheduler	\$ 30.00	\$ 78.50
GIS Specialist	\$ 35.00	\$ 91.59
Construction Manager	\$ 60.00	\$ 157.01
Construction Engineer	\$ 58.00	\$ 151.77
Admin / Clerical (Eng)	\$ 35.00	\$ 91.59
Admin Assistant 2	\$ 37.00	\$ 96.82
Admin Assistant 3	\$ 40.00	\$ 104.67
Public Outreach Manager	\$ 35.00	\$ 91.59
Survey Project Manager	\$ 40.00	\$ 104.67
Registered Professional Land Surveyor	\$ 60.00	\$ 157.01
Survey Technician	\$ 32.00	\$ 83.74
Survey Technician - GPS	\$ 33.00	\$ 86.35
2-man Survey Crew (Portal to Portal)	\$ 76.01	\$ 198.90
3-man Survey Crew (Portal to Portal)	\$ 114.01	\$ 298.34
4-man Survey Crew (Portal to Portal)	\$ 152.01	\$ 397.78
Flagger	\$ 20.00	\$ 52.34
Admin / Clerical (Surv)	\$ 30.00	\$ 78.50
Field Engineering / Geologist	\$ 38.00	\$ 99.44
Utility Engineer	\$ 50.00	\$ 130.84
Senior Utility Coordinator	\$ 48.00	\$ 125.61
Utilities Coordinator	\$ 45.00	\$ 117.76
Senior Utilities Field Inspector	\$ 40.00	\$ 104.67
Utilities Field Inspector	\$ 38.00	\$ 99.44
Audited Overhead Rate:	137.89%	
Negotiated Profit Rate:	10.00%	

## Exhibit D FEE SCHEDULE

Sites Southwest, LLC., S6  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Quality Manager	Admin Assistant 3	Landscape Architect / Planner	3D Animator / Graphics	Licensed Irrigator	Irrigation Designer	Landscape Designer 2	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>G. Schematic Design</b>										<b>\$ 29,461.95</b>
<b>5. Other Items to support the design effort</b>										<b>\$ 24,924.23</b>
5.3. Develop initial aesthetic (walls, sign supports, light fixture aesthetics, etc.) and landscaping enhancements. (SSW)									0	\$ -
- Site Visit and Investigation	4							4	8	\$ 879.64
- Concept precedent investigation and charrette	4							6	10	\$ 1,013.16
- Preliminary Concept Graphics	1	1			8			8	18	\$ 1,411.25
- Preliminary Detail Graphics	1	1			6			8	16	\$ 1,264.65
- Preliminary Section Graphics	1	1			6			8	16	\$ 1,264.65
- Final Concept Graphics	1	1			8			8	18	\$ 1,411.25
- Final Detail Graphics	1	1			6			8	16	\$ 1,264.65
- Final Section Graphics	1	1			6			8	16	\$ 1,264.65
- Water Harvesting Investigation and Graphics	1	1			6			4	12	\$ 997.61
- Plant Palette Investigation and Graphics	1	1			4			4	10	\$ 851.01
- Retention Pond Aesthetics Graphics	1	1			4			6	12	\$ 984.53
5.10. Develop landscape architectural aesthetic considerations for both pedestrian bike, and vehicular traffic and safety. (SSW)									-	\$ -
- Preliminary Concept Graphics	1	1						6	8	\$ 691.33
- Preliminary Detail Graphics	1	1						8	10	\$ 824.85
- Preliminary Section Graphics	1	1						6	8	\$ 691.33
- Final Concept Graphics	1	1						6	8	\$ 691.33
- Final Detail Graphics	1	1						8	10	\$ 824.85
- Final Section Graphics	1	1						8	10	\$ 824.85
- Review Executive Memorandum related to Beneficial Landscape Practices	1							2	3	\$ 286.67
- Review Executive Memorandum related to Beneficial Landscape Practices	1							2	3	\$ 286.67
- Review Executive Order related to Invasive Species	1							2	3	\$ 286.67
- Review MOU and MOA with TPWD	1							2	3	\$ 286.67
- Review and coordinate scoped area in relation to Wildlife, Threatened and Endangered Species and Wetlands	1							2	3	\$ 286.67
- Meetings for Design Schematics (Kick-off and 1 Design Conference and 3 for coordination and review)	12.5								12.5	\$ 1,914.38
- Design Schematics Presentation Graphics for Public Meetings (5 boards assumed)	2	1			15			12	30	\$ 2,344.54
- Public Meeting Attendance for Design Schematics (1 meeting)	4							4	8	\$ 879.64
- Invoicing & project update for Design Schematics Phase (assumes 12 month design period)	3		12						15	\$ 1,196.73
<b>Deliverables</b>										<b>\$ 4,537.72</b>
- Landscape, Aesthetics & Irrigation Info for Design Summary Report	3		6					6	15	\$ 1,228.65
- Aesthetics Info for Technical Memorandum	1		1						2	\$ 214.59
- Preliminary Design Schematic (30 percent)	2							6	8	\$ 706.86
- Preliminary Design Schematic (60 percent)	2							6	8	\$ 706.86
- Preliminary Design Schematic (90 percent)	2							6	8	\$ 706.86
- Final Design Schematic (100 percent)	2							10	12	\$ 973.90
<b>HOURS SUB-TOTALS</b>										
	61.5	16	19	0	69	0	0	174	339.5	
<b>CONTRACT RATE PER HOUR</b>										
	\$153.15	\$137.62	\$61.44	\$129.98	\$73.30	\$73.30	\$66.76	\$66.76		
<b>TOTAL LABOR COSTS</b>										
	\$9,418.73	\$2,201.92	\$1,167.36	\$0.00	\$5,057.70	\$0.00	\$0.00	\$11,616.24		\$29,461.95
<b>% DISTRIBUTION OF STAFF HOURS</b>										
	5.45%	10.91%	0.00%	10.91%	0.00%	0.00%	0.00%	72.73%		
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>										<b>\$ 99,900.64</b>
<b>5. Roadway Design</b>										<b>\$ 99,900.64</b>
5.3.7. Preliminary Landscape Design (SSW) (30% Complete)									0	\$ -
5.3.7.1. Develop landscape design in accordance with visibility and safety requirements									0	\$ -
- PSE Design (30 percent)									0	\$ -
- Landscape Construction Plans	2	4		6				30	42	\$ 3,639.46
- Aesthetic Plans	2	4		6				30	42	\$ 3,639.46
- Planting Plans	2	4		6				34	46	\$ 3,906.50
- Irrigation Plans	2	4		6		10	30		52	\$ 4,372.46
- Details	3	6		6				40	55	\$ 4,735.45
- PSE Design (60 percent)									0	\$ -
- Landscape Construction Plans	2	4		6				34	46	\$ 3,906.50
- Aesthetic Plans	2	4		6				30	42	\$ 3,639.46
- Planting Plans	2	4		6				30	42	\$ 3,639.46
- Irrigation Plans	2	4		6		10	30		52	\$ 4,372.46
- Details	3	6		6				40	55	\$ 4,735.45
- PSE Design (90 percent)									0	\$ -
- Landscape Construction Plans	2	4		6				30	42	\$ 3,639.46
- Aesthetic Plans	2	4		6	18			34	64	\$ 5,225.90
- Planting Plans	2	4		6				30	42	\$ 3,639.46
- Irrigation Plans	3	4		6		10	30		53	\$ 4,525.61
- Details	3	6		6				40	55	\$ 4,735.45
- Specifications	2			4		6		10	22	\$ 1,933.62
5.3.7.2. Develop water harvesting opportunities for the benefit of plant material	3			4				10	17	\$ 1,646.97
5.3.7.3. Produce recommendations for an appropriate plant palette that is colorful, balanced in seasonal color as well as rabbit resistant	2							10	12	\$ 973.90

## Exhibit D FEE SCHEDULE

Sites Southwest, LLC., S6  
PROJECT: Tierra Este Rd. Extension

Task Description	Principal	Quality Manager	Admin Assistant 3	Landscape Architect / Planner	3D Animator / Graphics	Licensed Irrigator	Irrigation Designer	Landscape Designer 2	TOTAL LABOR HOURS	TOTAL LABOR COST
5.3.7.4. Provide exhibits with landscape architectural design that allows owner and client to clearly visualize plant species and general landscape design.	3			6	6			10	25	\$ 2,346.73
5.3.7.5. Prepare for median and parkway focal points that are appropriate of the region's landscape as well as inclusive of low-water use plant material.	2			8				10	20	\$ 2,013.74
5.3.8. Preliminary Irrigation System Design									0	\$ -
Develop irrigation concepts	3			6		12			21	\$ 2,118.93
Locate and coordinate meter locations	1					8		12	21	\$ 1,540.67
Bid Phase Services									0	\$ -
- Answer Prospective Bidder's Questions	2			4				6	12	\$ 1,226.78
- Prepare Addenda	2	2	2	4		4		8	22	\$ 2,051.62
Construction Phase Services									0	\$ -
- RFI & Submittal Review	4			4				12	20	\$ 1,933.64
- Construction Meetings (6 assumed)	12							12	24	\$ 2,638.92
- Construction Site Visits (6 assumed)	12							12	24	\$ 2,638.92
- Answer Contractor's Questions	4			12					16	\$ 2,172.36
- Prepare Construction Directives	4	4	4	4		4	6	6	32	\$ 3,023.08
- Punch List & Final Inspection Site Visits & generation of reports	12							16	28	\$ 2,905.96
- Close-out Document Review	4							12	16	\$ 1,413.72
- Invoicing & project update for Construction Phase (assumes 18 month construction period)	18		36						54	\$ 4,968.54
<b>HOURS SUB-TOTALS</b>	<b>124</b>	<b>72</b>	<b>42</b>	<b>146</b>	<b>24</b>	<b>64</b>	<b>96</b>	<b>548</b>	<b>1116</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$153.15</b>	<b>\$137.62</b>	<b>\$61.44</b>	<b>\$129.98</b>	<b>\$73.30</b>	<b>\$73.30</b>	<b>\$66.76</b>	<b>\$66.76</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$18,990.60</b>	<b>\$9,908.64</b>	<b>\$2,580.48</b>	<b>\$18,977.08</b>	<b>\$1,759.20</b>	<b>\$4,691.20</b>	<b>\$6,408.96</b>	<b>\$36,584.48</b>		<b>\$129,362.59</b>
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>225.45%</b>	<b>130.91%</b>	<b>76.36%</b>	<b>265.45%</b>	<b>43.64%</b>	<b>116.36%</b>	<b>174.55%</b>	<b>996.36%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>185.5</b>	<b>88</b>	<b>61</b>	<b>146</b>	<b>93</b>	<b>64</b>	<b>96</b>	<b>722</b>	<b>1455.5</b>	
<b>PROJECT TOTALS</b>	<b>\$28,409.33</b>	<b>\$12,110.56</b>	<b>\$3,747.84</b>	<b>\$18,977.08</b>	<b>\$6,816.90</b>	<b>\$4,691.20</b>	<b>\$6,408.96</b>	<b>\$48,200.72</b>		<b>\$134,300.59</b>
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>12.74%</b>	<b>6.05%</b>	<b>4.19%</b>	<b>10.03%</b>	<b>6.39%</b>	<b>4.40%</b>	<b>6.60%</b>	<b>49.60%</b>		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Sites Southwest, LLC., S6</b>					
<b>PROJECT: Tierra Este Rd. Extension</b>					
<b>OTHER DIRECT EXPENSES</b>					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	96.00		\$0.00
Lodging/Hotel Taxes/fees	0	night	40.00		\$0.00
Meals (overnight stay required)	0	day	55.00		\$0.00
Rental Car (Tax/fees not included)	2	day	90.00		\$180.00
Rental Car Taxes/fees	0	day	25.00		\$0.00
Rental Car fuel	0	day	25.00		\$0.00
Mileage	1200	mile	0.565		\$678.00
SUV or ATV Rental	0	day	150.00		\$0.00
Air Travel	0	each	675.00		\$0.00
Parking	0	day	25.00		\$0.00
Taxi/Cab fare	0	each	40.00		\$0.00
Standard Postage (Current State rate)	0	letter	0.55		\$0.00
Overnight express-letter size	6	each	15.00		\$90.00
Overnight express-oversized box	4	each	40.00		\$160.00
Courier Services	0	each	35.00		\$0.00
8½"X11" B/W Paper Copies	400	each	0.20		\$80.00
11"X17" B/W Paper Copies	3000	each	0.40		\$1,200.00
8½"X11" Color Paper Copies	200	each	0.75		\$150.00
11"X17" Color Paper Copies	400	each	1.50		\$600.00
CADD Plotting	300	linear foot	1.50		\$450.00
Digital Ortho Plotting	0	linear foot	1.75		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	0	per search	600.00		\$0.00
Report Binding	0	each	8.00		\$0.00
Presentation Boards 30"X40" Color Mounted	6	each	100.00		\$600.00
Color Graphics on Foam Board	75	sq. ft.	10.00		\$750.00
Custodian for Public Involvement	0	event	300.00		\$0.00
Audio-Visual Equipment Rental (technician)	0	event	500.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00		\$0.00
Translator (English to Spanish)	0	hour	100.00		\$0.00
Court Reporter	0	hour	125.00		\$0.00
Newspaper Advertisement	0	each	4,000.00		\$0.00
Plots (B/W on Bond)	0	linear foot	0.75		\$0.00
Plots (Color on Bond)	0	linear foot	1.75		\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00		\$0.00
					\$0.00
<b>Other Direct Expense Total</b>					<b>\$4,938.00</b>



**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Sites Southwest, S3</b>		
<b>PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Principal	\$ 58.50	\$ 153.15
Senior Project Manager	\$ 52.57	\$ 137.62
Deputy Project Manager	\$ 49.65	\$ 129.98
Quality Manager	\$ 52.57	\$ 137.62
GIS Specialist	\$ 32.75	\$ 85.74
Admin Assistant 2	\$ 21.62	\$ 56.60
Admin Assistant 3	\$ 23.47	\$ 61.44
Public Outreach Manager	\$ 36.79	\$ 96.31
Senior Landscape Architech / Planner	\$ 52.57	\$ 137.62
Landscape Architect / Planner	\$ 49.65	\$ 129.98
Senior 3D Animator / Graphics	\$ 30.00	\$ 78.54
3D Animator / Graphics	\$ 28.00	\$ 73.30
Licensed Irrigator	\$ 28.00	\$ 73.30
Landscape Designer	\$ 22.50	\$ 58.90
Project Manager	\$ 42.50	\$ 111.26
Irrigation Designer	\$ 25.50	\$ 66.76
Landscape Designer 2	\$ 25.50	\$ 66.76
Planner	\$ 42.50	\$ 111.26
Audited Overhead Rate:	137.99%	
Negotiated Profit Rate:	10.00%	
<p>Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment.            Physical percent complete to be billed. Documentation of hours work not required.            Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.</p>		

## Exhibit D FEE SCHEDULE

Dannenbaum Engineering Company - El Paso, LLC Cobb, Fendley & Associates, Inc., S3								
Task Description	Senior Project Manager	Deputy Project Manager	Project Engineer	Senior Engineering Technician	Engineering Technician	Utilities Coordinator	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Plans, Specifications and Estimates (PS&amp;E)</b>							313	\$ 38,599.11
<b>4. Utility Conflict Analysis</b>							313	\$ 38,599.11
4.1 Research and determination of the location of existing utilities for Minimization of utility conflicts with the proposed design (Cobb-Fendley)		16		32	20	10	78	\$ 9,851.42
4.2 Develop Utility Layout Plan (Cobb-Fendley)			20	52	60	43	175	\$ 19,327.26
4.3 Develop utility relocation schedule (Cobb-Fendley)		20	20			20	60	\$ 9,420.42
<b>HOURS SUB-TOTALS</b>	0	36	40	84	80	73	313	
<b>CONTRACT RATE PER HOUR</b>	\$221.66	\$203.19	\$150.85	\$113.91	\$89.28	\$116.99		
<b>TOTAL LABOR COSTS</b>	\$0.00	\$7,314.68	\$6,034.00	\$9,568.20	\$7,142.28	\$8,539.95	\$38,599.11	
<b>% DISTRIBUTION OF STAFF HOURS</b>	0.00%	11.50%	12.78%	26.84%	25.56%	23.32%		
<b>K. Utility Coordination (Cobb Fendley)</b>							410	\$ 60,229.14
<b>1. Utility Coordination</b>							410	\$ 60,229.14
1.1. Develop listing of utility companies with contact information Designate known utilities throughout the ROW						8	8	\$ 935.89
1.3 Conduct utility coordination meetings	12		24			28	64	\$ 9,555.88
1.4 Provide base map information to all utility companies at each submittal phase			24	12		16	52	\$ 6,859.05
1.5 Coordination with utilities to obtain their relocation plans. Prepare and issue minutes for each meeting	6		12			16	34	\$ 5,011.91
1.6 Develop a Utility Conflict Matrix to track utility issues and proposed resolutions	12		52				64	\$ 10,504.08
1.7 Review relocation plans and incorporate into Utility Conflict Matrix	8		32			24	64	\$ 9,408.11
1.8 Assist County in obtaining clearance letters and provide copies of documentation to the CRRMA at the Final submittal phase	12		16			8	36	\$ 6,009.37
1.9 Coordinate with utility companies requesting that relocation of their facilities be part of the project construction	8		24			40	72	\$ 10,073.08
<b>HOURS SUB-TOTALS</b>	58	0	184	12	0	156	410	
<b>CONTRACT RATE PER HOUR</b>	\$221.66	\$203.19	\$150.85	\$113.91	\$89.28	\$116.99		
<b>TOTAL LABOR COSTS</b>	\$12,856.11	\$0.00	\$27,756.39	\$1,366.89	\$0.00	\$18,249.76	\$60,229.14	
<b>% DISTRIBUTION OF STAFF HOURS</b>	14.15%	0.00%	44.88%	2.93%	0.00%	38.05%		
<b>TOTAL PROJECT HOURS</b>	58	36	224	96	80	229	723	
<b>PROJECT TOTALS</b>	\$12,856.11	\$7,314.68	\$33,790.38	\$10,935.08	\$7,142.28	\$26,789.72	\$98,828.25	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	8.02%	4.98%	30.98%	13.28%	11.07%	31.67%		

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Cobb, Fendley &amp; Associates, Inc., S3</b>				
<b>PROJECT: Tierra Este Rd. Extension</b>				
<b>OTHER DIRECT EXPENSES</b>				
Other Direct Expenses	UNITS		RATE	TOTAL
Lodging/Hotel (Taxes/fees not included)	20	night	96.00	\$1,920.00
Lodging/Hotel Taxes/fees	20	night	40.00	\$800.00
Meals (overnight stay required)	20	day	55.00	\$1,100.00
Rental Car (Tax/fees not included)	20	day	90.00	\$1,800.00
Rental Car Taxes/fees	20	day	25.00	\$500.00
Rental Car fuel	20	day	25.00	\$500.00
Mileage	100	mile	0.565	\$56.50
SUV or ATV Rental	0	day	150.00	\$0.00
Air Travel	8	each	675.00	\$5,400.00
Parking	20	day	25.00	\$500.00
Taxi/Cab fare	4	each	40.00	\$160.00
Standard Postage (Current State rate)	0	letter	0.55	\$0.00
Overnight express-letter size	0	each	15.00	\$0.00
Overnight express-oversized box	0	each	40.00	\$0.00
Courier Services	0	each	35.00	\$0.00
8½"X11" B/W Paper Copies	1000	each	0.20	\$200.00
11"X17" B/W Paper Copies	1800	each	0.40	\$720.00
8½"X11" Color Paper Copies	200	each	0.75	\$150.00
11"X17" Color Paper Copies	200	each	1.50	\$300.00
CADD Plotting	1000	linear foot	1.50	\$1,500.00
Digital Ortho Plotting	0	linear foot	1.75	\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	80.00	\$0.00
Notebooks	0	each	10.00	\$0.00
Hazardous Materials Database Search	0	per search	600.00	\$0.00
Report Binding	0	each	8.00	\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	100.00	\$0.00
Color Graphics on Foam Board	0	sq. ft.	10.00	\$0.00
Custodian for Public Involvement	0	event	300.00	\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	500.00	\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00	\$0.00
Translator (English to Spanish)	0	hour	100.00	\$0.00
Court Reporter	0	hour	125.00	\$0.00
Newspaper Advertisement	0	each	4,000.00	\$0.00
Plots (B/W on Bond)	0	linear foot	0.75	\$0.00
Plots (Color on Bond)	0	linear foot	1.75	\$0.00
Plots (Color on Photographic Paper)	0	linear foot	5.00	\$0.00
				\$0.00
<b>Other Direct Expense Total</b>				<b>\$15,606.50</b>

**Exhibit D  
FEE SCHEDULE**

<b>SUBCONSULTANT: Cobb, Fendley &amp; Associates, Inc., S3</b>		
<b>PRIME PROVIDER NAME: Dannenbaum Engineering Company-El Paso, LLC.</b>		
<b>PROJECT: Tierra Este Rd. Extension</b>		
<b>LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS</b>		
<b>Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification</b>	<b>Negotiated Hourly Base Rate</b>	<b>Contract Rate</b>
Principal	\$ 85.00	\$ 261.68
Senior Project Manager	\$ 72.00	\$ 221.66
Deputy Project Manager	\$ 66.00	\$ 203.19
Senior Bridge Engineer	\$ 65.00	\$ 200.11
Senior Engineer	\$ 63.00	\$ 193.95
Project Engineer	\$ 49.00	\$ 150.85
Design Engineer	\$ 42.00	\$ 129.30
EIT	\$ 33.00	\$ 101.59
Senior Engineering Technician	\$ 37.00	\$ 113.91
Engineering Technician	\$ 29.00	\$ 89.28
Senior CADD Operator	\$ 32.00	\$ 98.51
CADD Operator	\$ 28.00	\$ 28.00
GIS Specialist	\$ 35.00	\$ 35.00
Admin / Clerical (Eng)	\$ 25.00	\$ 76.96
Admin Assistant 2	\$ 21.00	\$ 64.65
Admin Assistant 3	\$ 20.00	\$ 61.57
Survey Project Manager	\$ 60.00	\$ 184.71
Registered Professional Land Surveyor	\$ 55.00	\$ 169.32
Survey Technician	\$ 35.00	\$ 107.75
Survey Technician - GPS	\$ 35.00	\$ 107.75
2-man Survey Crew (Portal to Portal)	\$ 150.00	\$ 461.79
3-man Survey Crew (Portal to Portal)	\$ 185.00	\$ 569.54
4-man Survey Crew (Portal to Portal)	\$ 205.00	\$ 631.11
Flagger	\$ 63.00	\$ 193.95
Admin / Clerical (Surv)	\$ 21.00	\$ 64.65
Utility Engineer	\$ 45.00	\$ 138.54
Senior Utility Coordinator	\$ 50.00	\$ 153.93
Utilities Coordinator	\$ 38.00	\$ 116.99
Senior Utilities Field Inspector	\$ 35.00	\$ 107.75
Utilities Field Inspector	\$ 30.00	\$ 92.36
Appraiser	\$ 70.00	\$ 215.50
Senior Land Agent	\$ 58.00	\$ 178.56
Land Agent	\$ 45.00	\$ 138.54
		\$ -
Audited Overhead Rate:	179.87%	
Negotiated Profit Rate:	10.00%	