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, having its prinicipal business address at 10737 Gateway Blvd West Ste. 112, El Paso, TX 79935 (the "Engineer").

PART I. The Engineer will perform engineering services generally described as the preparation of plans, specifications and estimate for the construction project known as Eastlake Phase 1 from IH 10 to Darrington Road 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 work schedule are further detailed in exhibits A, B and C which are attached hereto and made a part of the Work Authorization.

PART II. The maximum amount payable under this Work Authorization is $2,211,304.63 and the method of payment is Specified Rate Basis as set forth in Attachment E of the Contract. This amount is based upon fees set forth in Attachment E, Fee Schedule, of the Contract and the Engineer's estimated Work Authorization costs included in Exhibit D, Fee Schedule, which is attached and made a part of this Work Authorization.

PART III. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Articles 3 thru 5 of the Contract, and Attachment A, General Provisions, Article 1.

PART IV. This Work Authorization shall become effective on the date of final acceptance of the Parties hereto and shall terminate upon CRRMA final acceptance of the completed project, unless extended by a supplemental Work Authorization as provided in Attachment A, General Provisions, Article 1.

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.

CAMINO REAL REGIONAL MOBILITY AUTHORITY

By:_____
Raymond L. Telles
Executive Director

DANNENBAUM ENGINEERING COMPANY – EL PASO, LLC

By:_____
Louis H. Jones, Jr., P.E.

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/Budget

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.

[END OF EXHIBIT]

Exhibit B

SERVICES TO BE PROVIDED BY THE ENGINEER

I. PROJECT SUMMARY

Eastlake Blvd. Phase I from IH – 10 to Darrington Rd., to include the intersection of Rojas and Eastlake Blvd. The existing road is currently a county 4 lane divided roadway. TxDOT has provided a Preliminary Engineering Report and a 30% schematic to El Paso County for use by the Engineer. This project will consist of widening the existing facility to a 6 lane divided facility, CPCR, illumination, safety appurtenances, drainage and signalization. There will be 10' hike and bike trails on both sides of Eastlake from Rojas Dr. to Darrington Rd. This project will need to be coordinated closely with two other projects (Rojas Dr. and Eastlake Phase 2) abutting the limits of this project. The project is anticipated to be let in June 2016.

Professional Services will be provided by the Engineer to produce preliminary plan documents and final plans, specifications, and estimates (PS&E) for the widened roadway. These services generally will include topographic surveying, pavement design, development of roadway geometry, drainage study, traffic, right-of-way mapping, geotechnical, illumination, landscaping medians and parkways, stakeholder coordination, document preparation, and design services necessary for the preparation of PS&E. Coordination with the various municipalities as well as El Paso County, Paseo Del Este Municipal Utility District and all utilities is required. The Engineer will also be required to prepare a complete 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 added as a supplemental to the contract at later time and will be limited to responding to requests for information, checking submitted shop drawings and developing final as-built plans.

II. SERVICES TO BE PROVIDED BY THE ENGINEER

Professional services to be provided by the Engineer will conform to the latest 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, practices and procedures.

The Engineer will work at the direction and supervision of the CRRMA Executive Director and its consultants, 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 establish CRRMA, County of El Paso and/or other municipal review and comment periods for each deliverable of the project.

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
- Geotechnical Investigations
- Drainage study

 Stakeholder coordination
 Plans, Specifications and Estimates
 Utility Coordination

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
    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 10%

2. Progress Reporting.
   2.1 Prepare and submit 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 Updates Project Schedule
   2.2 Prepare and Submit Invoices. The report shall be submitted as an attachment to the invoice submittal.
      2.2.1 Financial and DBE Participation
      2.2.2 Hours Worked by Individual
      2.2.3 Hourly Rate
      2.2.4 Monthly Invoice Amount as Compared to Baseline Monthly Estimate
      2.2.5 Monthly Cumulative Invoice Amount as Compared to Baseline Monthly Cumulative Estimate
      2.2.6 Reasons for Deviations from Baseline
3. Coordination/Administration
   3.1 The Engineer shall prepare for and attend one kick-off meeting to discuss project guidelines and present general project requirements and expectations.
   3.2 Maintain a communication tracking system, identifying all formal communications.
   3.3 Coordinate with the CRRMA's GEC staff regularly throughout project development.
   3.4 Compile and maintain a comprehensive Administrative Record.
4. Project Control/ Scheduling

4.1 Develop and maintain a Master Schedule for the Project indicating tasks/subtasks critical dates, milestones, deliverables, and review requirements.
4.2 Update and Schedule on a Monthly Basis.
4.3 Include all CRRMA GEC, TxDOT and other 3rd Party Reviews in the Schedule.

5. Subconsultant Management

5.1 Develop and implement a plan to manage subconsultants (as part of the project management plan).
5.2 Prepare subcontracts for subconsultant(s).
5.3 Monitor subconsultant activities (staff and schedule).
5.4 Review and recommend approval of subconsultant progress reports and invoices.
Camino Real Regional Mobility Authority Scope of Services

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 Engineer'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:

- Horizontal – Texas State Plane Coordinate System of 1983(NAD-83 State Plane Coordinates)
- Vertical – NAVD 88, GEOID 2012A.

2. Ground Survey

2.1 The Engineer will provide a boundary and topographic improvements survey of the entire roadway corridor. Survey information beyond/outside the Eastlake Road 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 Perform any ditch/channel cross-sections at 25-foot intervals along and perpendicular to the ditch/channel centerline for a distance of 100 feet left and right of the existing right-of-way (ROW).

2.3 Survey the horizontal location of visible above ground utility appurtenances within the existing ROW.

2.4 Survey the horizontal and vertical location of the existing roadway for a distance of 1,000 feet each side of the Project limits and intersecting streets.

- A telephone order to Dig Tess will be placed to have the underground utilities marked (painted) on the surface. The survey will include tying these marks.
- 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.

 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.

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.

C. Right-of-way Mapping

1. Perform a right-of-way survey
   - 1.1 Determine existing right-of-way limits
   - 1.2 Determine proposed right-of-way limits
   - 1.3 Determine easements Camino Real Regional Mobility Authority Scope of Services
   - 1.4 Determine actual property owners.
2. Acquire permission for Right of Entry As necessary or other written evidence of permission before entering private property.
   - 2.1 Draft ROE form.
   - 2.2 Coordination with property owner
3. Prepare right of way map and property description for the project limits.
   - 3.1 Prepare ROW map sheets.
   - 3.2 Prepare property description

Deliverables

 Complete right of way map and property descriptions throughout project corridor.

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 County for review and approval, necessary traffic control plans and permit forms.
   - 1.1.3 Advance one exploratory boring at maximum intervals of 500 lineal feet of roadway alignment to a minimum depth of 15 feet. At ponding area sites, perform a minimum of two exploratory borings at each site, extending to a minimum depth of 20 feet below the anticipated depth of pond.

1.1.4 Perform split spoon standard penetration tests (SPT) at 2.5 feet below grade and 5 feet thereafter.
1.1.5 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), Atterburg 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.
1.1.6 Derive soil strength utilizing the split spoon SPT blow counts or unconfined compressive strength tests (ASTM D 2166) on selected soils.
1.1.7 Perform a California Bearing Test (CBR) (ASTM D 1883) for each major soils type.
1.1.8 Perform a minimum of two percolation tests at each ponding area site 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 a rigid pavement concrete section.
2.2 Provide recommendations for underground storm water pipe bedding and backfill.
2.3 Provide recommendations for illumination pole foundations, traffic signal mast arm foundations, and retaining wall structures.
2.4 Summarize results of the geotechnical engineering investigations in a written report.

Deliverables

- Provide three (3) PE sealed and signed copies of report.

E. Schematic

1. Engineer will utilize 30% Schematic provided by TxDOT to begin design on the project.
   a. Engineer will obtain all design files and format for utilization in design
2. Utilities
   b. Acquire all existing utility plan documents
3. Transportation Reports
   c. Acquire al regional Transportation and Mobility Study Reports and As-Built Construction plans within project area.
4. Municipality Reports / Developments
   d. Acquire documents for proposed developments along proposed route.

Deliverables

- Provide copies of all reports, as-built drawings and proposed developments

F. Drainage Study

1. Perform a drainage study of the Project watershed to determine the drainage requirements for the Project.
   1. The study will consider the location of retention ponding areas for storing runoff from the project. The study will be documented in a bound Drainage Study report signed and sealed by a Registered Professional Engineer in the State of Texas.

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, TxDOT, and adjoining developers to check that all proposed drainage systems accommodate the proposed construction.

3. Design services will include the following:

1. Prepare drainage area maps.
2. Prepare culvert plan and elevation sheets.
3. Prepare plan/profile sheets for storm drain systems and outfall ditches.
4. Select standard details from County or TxDOT list of standards for items such as inlets, manholes, junction boxes and end treatment, etc.
5. Prepare details for non-standard inlets, manholes and junction boxes.
6. Prepare drainage details for outlet protection, outlet structures and utility accommodation structures.
7. Identify pipe strength requirements.
8. Prepare drainage facility quantity summaries.
9. Identify potential utility conflicts and design around them, wherever possible.
10. Take into consideration drainage impacts to pedestrian facilities, utilities, driveways, retaining walls, and concrete traffic barriers.
11. If applicable, prepare Hydraulic Data Sheets for any bridge or cross drainage structures at outfall channel.(Indicate site location such as name of creeks and stations)
12. Develop plans for all temporary drainage facilities necessary to allow staged construction of the project and to conform with the phasing of adjacent construction projects without significant impact to the hydraulic capacity of the area,

- Prepare design layouts, drainage area maps, and design of all drainage components. The Engineer shall design all conventional storm drainage and cross drainage in conformance with El Paso County design guidelines.
- Storm drain design will be performed using WinStorm or GEOPAK Drainage. Cross drainage design will be performed using WINSTORM, HY 8 or HEC RAS

Deliverables

- Three copies of the bound Drainage Study report.

G. Stakeholder Coordination

1. The Engineer will be responsible for implementing any stakeholder involvement. 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. Develop a plan and strategies to engage stakeholders.

2. Organize and implement meeting logistics.
3. Identify stakeholders and develop mailing list database.
4. Facilitate meetings.
5. Prepare and distribute involvement material.
6. Produce graphic materials to promote and educate stakeholders about the project.
7. Monitor and review comments received.
8. Prepare exhibits/displays for Meetings.
9. Prepare Meeting Summary, including a response to comments received.

Deliverables

- Attend meeting with Stakeholders
- Stakeholder Involvement Plan
- Stakeholder Mailing List Database
- Meeting Material
  - Meeting Agenda
- Exhibits / Displays for Meetings
  - Typical Sections
  - Roadway Layout
  - Landscape Section Concept Exhibits
- Meeting Summary

G. 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
    1. Complete the Design Summary Report
    2. Hold a Design Conference at the 30% design stage.
3. Initial design
    1. Develop traffic control plan/detour plans
    2. Obtain environmental permits
    3. Coordinate approval of pavement design
    4. Prepare hydrologic/hydraulic reports as necessary
4. Utility Coordination
    1. Reseach and determination of the location of existing utilities.
    2. Minimization and determination of the location of existing utilities.
    3. Coordination with utilities to develop relocation plans.
    4. Develop Utility Layout Plan
    5. Develop utility relocation schedule
5. Roadway design
    1. Design final vertical and horizontal alignments

    2. Develop cross-section and earthwork volumes
    3. Detail design elements throughout project including illumination, driveway access, bicycle and pedestrian facilities, landscape, and miscellaneous details
    4. Submit design exceptions/waivers as required on project.
6. Operational design
    1. Develop signing and pavement marking plans.

2. Develop signalization plans.
    1. Eastlake at I-10 WB Frontage Road
    2. Eastlake at Rojas Drive
    3. Eastlake at Emerald Park
    4. Eastlake at Darrington
    5. Eastlake at Mission Ridge not included (To be installed by Developer)
        a. Engineer will coordinate with Developer on the design and installation of the signals.

7. Drainage design
    1. Develop retention pond design
    2. Prepare retention pond details
    3. Develop hydraulic design for culverts and storm drains
    4. Prepare culvert and storm drain details
    5. Design final vertical and horizontal alignments for storm drains
8. Traffic Control
    1. The Engineer will attend up to two meetings to present and discuss the proposed construction sequence and traffic control plans for the project.
    2. The Engineer will prepare traffic control drawings including: Line Diagrams; Detour Plans; TCP; General Note Guidelines for Contractor to follow; TCP Details/Standards.
    3. The Engineer will compile TCP Details/Standards using available TxDOT Standards.
9. Storm Water Pollution Prevention Plan (SW3P)
    1. Prepare SW3P Narrative
    2. Prepare Storm Water Pollution Prevention Plans
    3. Prepare SW3P Manual (Binder)
10. Final assembly of PS&E Package and supporting documents.
    1. Complete final construction plans
    2. Develop standard and special specifications
    3. Develop special provisions
    4. Develop cost estimate
    5. Develop bid document package
    6. Support CCRMA's develop of project agreements related to the Project
11. ADA compliance Services
    1. Engineer will perform plan review and inspections for ADA, T.A.S, and Texas Department of Licensing and Regulation requirements.
12. Bid assistance
    1. Assist with bid process and provide answers to prospective bidders
    2. Attend prebid conference

Deliverables

- 30, 60, 90, 100% Submittals: The Engineer will prepare and provide five (5) reproducible copies of the 30,60, 90, 100% Design documents and corresponding electronic (pdf) files
- QC redlines at (30, 60, and 90 percent) design reviews
- Preliminary (30, 60, and 90 percent) design review
- Final hydraulic report
- Final approved design exceptions/waivers
- Plans estimate

 Specification list, general notes, special provisions, specifications, special specifications.

H. Utility Coordination

1. The Engineer will 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.
2. The Engineer will designate known utilities throughout the ROW, as provided by utility owners.
3. The Engineer will conduct utility coordination meetings to review record drawings and proposed improvements with affected utility owners individually at each phase submittal. Utilities that may be affected include: El Paso Electric Company, Texas Gas Service, El Paso Water Utilities, Time Warner Cable, TW Telecom, ATT Telephone, AT&T Distribution Cable, MCI, QWEST Communications, and others.
4. The consultant will prepare and issue minutes for each meeting.
5. The Consultant will provide base map information to all utility companies at each submittal phase.
6. The Consultant will obtain 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.

[END OF EXHIBIT]

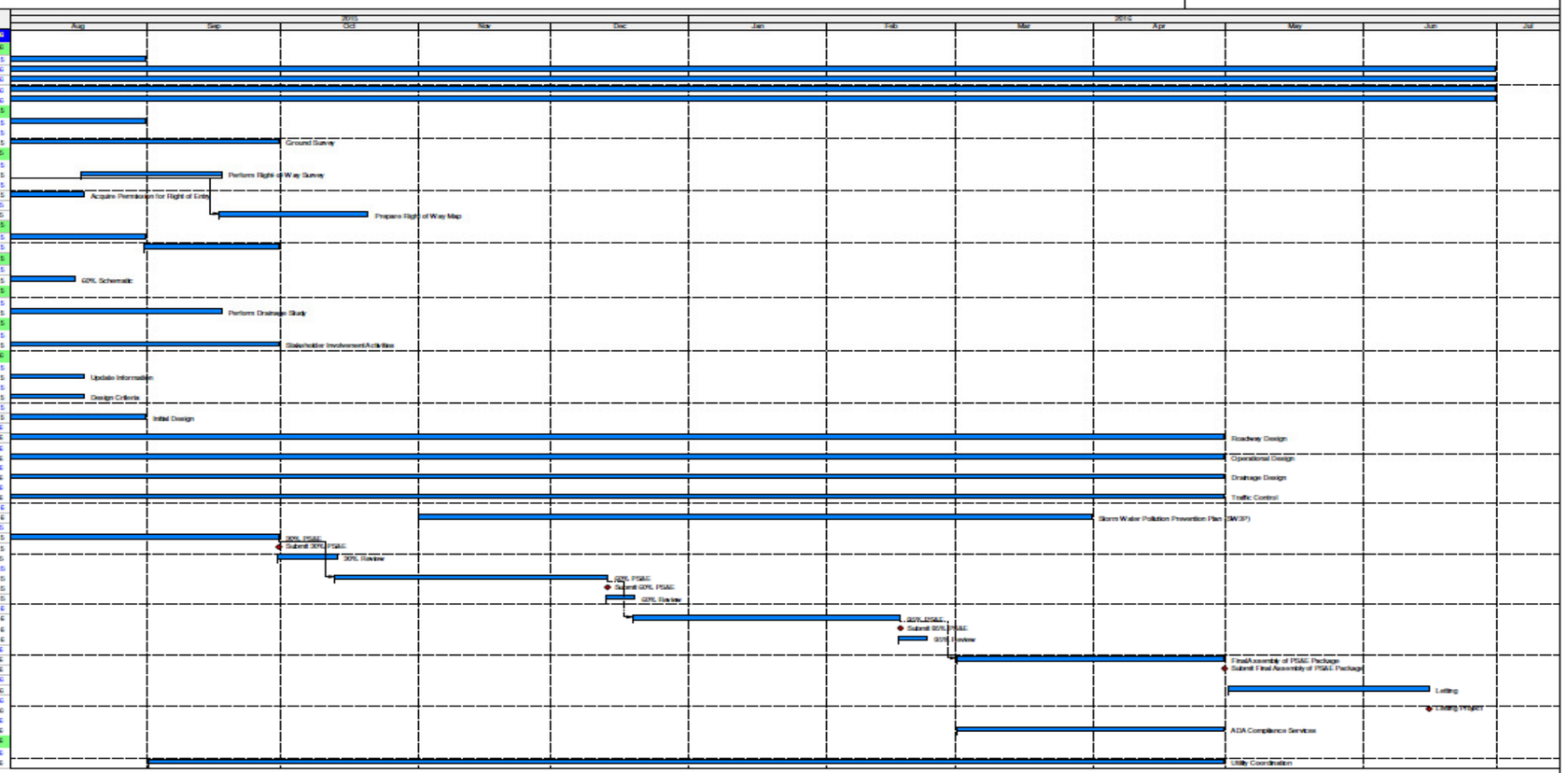
Exhibit C
Work Schedule

CAMINO REAL REGIONAL MOBILITY AUTHORITY

Dannenbaum Engineering Company - El Paso, LLC
EASTLAKE BLVD., PHASE 1

DANNENBAUM

Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start	Finish
	EL PASO EAST LAKE BLVD, PHASE 1	335	335	0%	Aug-01-15	Jun-30-16
	A. Project Management/Work Plan	335	335	0%	Aug-01-15	Jun-30-16
	1. Project Management/Work Plan)	31	31	0%	Aug-01-15	Aug-31-15
	2. Progress Reporting	335	335	0%	Aug-01-15	Jun-30-16
	3. Coordination/Administration	335	335	0%	Aug-01-15	Jun-30-16
	4. Project Control/Scheduling	335	335	0%	Aug-01-15	Jun-30-16
	5. Subconsultant Management	335	335	0%	Aug-01-15	Jun-30-16
	B. Surveying	61	61	0%	Aug-01-15	Sep-30-15
	1. Project Control	31	31	0%	Aug-01-15	Aug-31-15
	2. Ground Survey	61	61	0%	Aug-01-15	Sep-30-15
A1060	Ground Survey	61	61	0%	Aug-01-15	Sep-30-15
	C. Right-of-Way Mapping	81	81	0%	Aug-01-15	Oct-29-15
	1. Perform Right-of-Way Survey	32	32	0%	Aug-17-15	Sep-17-15
A1070	Perform Right-of-Way Survey	32	32	0%	Aug-17-15*	Sep-17-15
	2. Acquire Permission for Right of Entry	17	17	0%	Aug-01-15	Aug-17-15
A1080	Acquire Permission for Right of Entry	17	17	0%	Aug-01-15	Aug-17-15
	3. Prepare Right of Way Map	54	54	0%	Sep-17-15	Oct-29-15
A1090	Prepare Right of Way Map	54	54	0%	Sep-17-15*	Oct-29-15
	D. Geotechnical Investigations	61	61	0%	Aug-01-15	Sep-30-15
	1. Surface Exploration and Testing	31	31	0%	Aug-01-15	Aug-31-15
	2. Geotechnical Design	31	31	0%	Aug-01-15	Sep-30-15
	E. Schematic	15	15	0%	Aug-01-15	Aug-15-15
	3. Schematic	15	15	0%	Aug-01-15	Aug-15-15
A1140	60% Schematic	15	15	0%	Aug-01-15	Aug-15-15
	F. Drainage Study	48	48	0%	Aug-01-15	Sep-17-15
	1. Perform Drainage Study	48	48	0%	Aug-01-15	Sep-17-15
A1150	Perform Drainage Study	48	48	0%	Aug-01-15*	Sep-17-15
	G. Stakeholder Coordination	61	61	0%	Aug-01-15	Sep-30-15
	1. Stakeholder Involvement Activities	61	61	0%	Aug-01-15	Sep-30-15
A1160	Stakeholder Involvement Activities	61	61	0%	Aug-01-15	Sep-30-15
	H. Plans, Specifications and Estimates (PS&E)	220	220	0%	Aug-01-15	Jun-15-16
	1. Update Information	17	17	0%	Aug-01-15	Aug-17-15
A1170	Update Information	17	17	0%	Aug-01-15	Aug-17-15
	2. Design Criteria	17	17	0%	Aug-01-15	Aug-17-15
A1180	Design Criteria	17	17	0%	Aug-01-15*	Aug-17-15
	3. Initial Design	31	31	0%	Aug-01-15	Aug-31-15
A1190	Initial Design	31	31	0%	Aug-01-15*	Aug-31-15
	4. Roadway Design	274	274	0%	Aug-01-15	Apr-30-16
A1200	Roadway Design	274	274	0%	Aug-01-15*	Apr-30-16
	5. Operational Design	274	274	0%	Aug-01-15	Apr-30-16
A1210	Operational Design	274	274	0%	Aug-01-15*	Apr-30-16
	6. Drainage Design	274	274	0%	Aug-01-15	Apr-30-16
A1220	Drainage Design	274	274	0%	Aug-01-15*	Apr-30-16
	7. Traffic Control	274	274	0%	Aug-01-15	Apr-30-16
A1230	Traffic Control	274	274	0%	Aug-01-15*	Apr-30-16
	8. Storm Water Pollution Prevention Plan (SW3P)	152	152	0%	Nov-01-15	Mar-31-16
A1240	Storm Water Pollution Prevention Plan (SW3P)	152	152	0%	Nov-01-15*	Mar-31-16
	9. 30% PS&E	74	74	0%	Aug-01-15	Oct-13-15
A1250	30% PS&E	61	61	0%	Aug-01-15*	Sep-30-15
A1251	Submit 30% PS&E	0	0	0%		Sep-30-15
A1252	30% Review	14	14	0%	Sep-30-15*	Oct-13-15
	10. 60% PS&E	68	68	0%	Oct-13-15	Dec-13-15
A1260	60% PS&E	62	62	0%	Oct-13-15*	Dec-13-15
A1261	Submit 60% PS&E	0	0	0%		Dec-13-15
A1264	60% Review	7	7	0%	Dec-13-15*	Dec-19-15
	11. 90% PS&E	67	67	0%	Dec-19-15	Feb-23-16
A1300	90% PS&E	61	61	0%	Dec-19-15*	Feb-17-16
A1301	Submit 90% PS&E	0	0	0%		Feb-17-16
A1303	90% Review	7	7	0%	Feb-17-16*	Feb-23-16
	12. Final Assembly of PS&E Package	61	61	0%	Mar-01-16	Apr-30-16
A1250	Final Assembly of PS&E Package	61	61	0%	Mar-01-16*	Apr-30-16
A1302	Submit Final Assembly of PS&E Package	0	0	0%		Apr-30-16
	13. Letting Phase	46	46	0%	May-01-16	Jun-15-16
A1310	Letting	46	46	0%	May-01-16	Jun-15-16
	14. Letting Project	0	0	0%	Jun-15-16	Jun-15-16
A1320	Letting Project	0	0	0%		Jun-15-16
	15. ADA Compliance Services	61	61	0%	Mar-01-16	Apr-30-16
A1262	ADA Compliance Services	61	61	0%	Mar-01-16*	Apr-30-16
	I. Utility Coordination	243	243	0%	Sep-01-15	Apr-30-16
	1. Utility Coordination	243	243	0%	Sep-01-15	Apr-30-16
A1270	Utility Coordination	243	243	0%	Sep-01-15*	Apr-30-16



Actual Work ◆ Milestone
Remaining Work % Complete

Page 1 of 1

TASK filter: Internal Activities Hide.

EXHIBIT D
FEE SCHEDULE
(Final Cost Proposal)

This attachment provides the basis of payment and fee schedule**. The basis of payment for this contract is indicated by an "X" in the applicable box.** The basis shall be supported by the Final Cost Proposal (FCP) shown below. If more than one basis of payment is used, each one must be supported by a separate FCP.

"X"	Basis	
____	Lump Sum	The lump sum shall be equal to the maximum amount payable. The lump sum includes all direct and indirect costs and fixed fee. The Engineer shall be paid pro rata based on the percentage of work completed. For payment the Engineer is not required to provide evidence of actual hours worked, travel,
____	Unit Cost	The unit cost(s) for each type of unit and number of units are shown in the FCP. The unit cost includes all direct and indirect costs and fixed fee. The Engineer shall be paid based on the type and number of units fully completed and the respective unit cost. For payment, the Engineer is not required to provide evidence of actual hours worked, travel, overhead rates or any other cost data. The FCP may include special items, such as equipment which are not included in the unit costs. Documentation of these special costs may be required. The
__X__	Specified Rate Basis	The specified rates for each type of labor are shown in the FCP below. The FCP may include special items, such as equipment which are not included in the specified rates. Payment shall be based on the actual hours worked multiplied by the specified rate for each type of labor plus other agreed to special direct cost items. The specified rate includes direct labor and indirect cost and fixed fee. The CRRMA may request documentation of reimbursable direct costs including hours worked. Documentation of special item costs may be required.
____	Cost Plus Fixed Fee	Payment shall be based on direct and indirect costs incurred <u>plus</u> a pro rata share of the fixed fee based on the ratio of <u>labor and overhead cost incurred</u> to <u>total estimated labor and overhead cost in the FCP</u> or the percentage of work completed. The invoice must itemize labor rates, hours worked, other direct costs and indirect costs. The Engineer may be required to provide documentation of hours worked and any eligible direct costs claimed. The overhead rate charged is subject to audit and adjustment to actual rates incurred. The FCP below shows the hourly rates for labor, other direct expenses including but not limited to travel and allowable materials, overhead rate and the fixed fee. __A. Actual Cost Plus Fixed Fee - Actual wages are paid (no minimum, no maximum. This option does not apply to Indefinite Deliverable Contracts.) __B. Range of Cost Plus Fixed Fee – Actual wages <u>must</u> be within the allowable range shown on the Final Cost Proposal.

FEE SCHEDULE

Final Cost Proposal (FCP) Supporting Basis of Payment

* The **MAXIMUM AMOUNT PAYABLE** is $2,211,304.63

* Maximum amount payable must be negotiated for each work authorization.

The maximum amount payable is based on the following data and calculations

Dannenbaum Engineering Company - El Paso, LLC

PROJECT: Eastlake Blvd., Phase I

Company	Fee
Dannenbaum Engineering Company - El Paso, LLC	$1,675,155.26
Frank X. Spencer & Associates, S1	$147,755.80
AMEC Foster Wheeler, S2	$48,786.49
Sites Southwest, S3	$129,838.83
Villaverde, Inc., S5	$101,987.56
GRV integrated Engineering Slolutions, LLC, S6	$107,780.70
Total	**$2,211,304.63**

Dannenbaum Engineering Company - El Paso, LLC
PROJECT: Eastlake Blvd., Phase I

Task	Dannenbaum Engineering Company - El Paso, LLC	Frank X. Spencer & Associates, S1	AMEC Foster Wheeler, S2	Sites Southwest, S3	Villaverde, Inc., S5	GRV integrated Engineering SIolutions, LLC, S6
A. Project Management	$243,872.69	$0.00	$0.00	$0.00	$0.00	$0.00
B. Surveying	$0.00	$75,325.39	$0.00	$0.00	$0.00	$0.00
C. Right-Of-Way Mapping	$0.00	$58,070.53	$0.00	$0.00	$0.00	$0.00
D. Geotechnical Investigations	$0.00	$0.00	$23,434.49	$0.00	$0.00	$0.00
E. Schematic Design	$71,470.41	$0.00	$0.00	$0.00	$0.00	$0.00
F. Drainage Study	$181,924.47	$0.00	$0.00	$0.00	$0.00	$0.00
G. Stakeholder Coordination	$91,551.64	$0.00	$0.00	$0.00	$0.00	$0.00
H. Plans, Specifications and Estimates (PS&E)	$980,452.40	$0.00	$0.00	$126,403.46	$101,814.41	$104,471.21
I. Utility Coordination	$68,957.64	$0.00	$0.00	$0.00	$0.00	$0.00
Sub Totals	**$1,638,229.26**	**$133,395.92**	**$23,434.49**	**$126,403.46**	**$101,814.41**	**$104,471.21**
Direct Expenses	**$36,926.00**	**$14,359.88**	**$25,352.00**	**$3,435.37**	**$173.14**	**$3,309.49**
Totals	**$1,675,155.26**	**$147,755.80**	**$48,786.49**	**$129,838.83**	**$101,987.56**	**$107,780.70**
Grand Total	**$2,211,304.63**					
Participation Percentage		75.75%	6.68%	2.21%	5.87%	4.61%	4.87%
Total DBE Percentage:	16.17%					