

**CITY OF EL PASO, TEXAS  
AGENDA ITEM  
DEPARTMENT HEAD'S SUMMARY FORM**

**DEPARTMENT:** Engineering and Construction Management

**AGENDA DATE:** June 12, 2012

**CONTACT PERSON NAME AND PHONE NUMBER:** R. Alan Shubert, P.E., City Engineer (X4423)

**DISTRICT(S) AFFECTED:** 1 and 8

**SUBJECT:**

That the City Manager be authorized to sign the First Amendment to the Agreement for Professional Services by and between the City of El Paso and Lockwood, Andrews & Newnam, Inc., a Texas Corporation, for a project known as "Mesa Corridor Rapid Transit System (Mesa Corridor RTS)" to add the additional design services, surveys and evaluations in the amount of Two Hundred Twenty Eight Thousand Five Hundred Twenty Four and No/00 Dollars (\$228,524) thereby extending the contract amount from \$1,480,791.00 to \$1,709,315.00 and extending the contract time from 225 calendar days to 303 calendar days.

**BACKGROUND / DISCUSSION:**

In order to complete the Mutual Use Agreement (MUA) with TxDOT, metes and bounds are required for each station on TxDOT right of way. Additional survey is also needed for minor parcel takes to allow for ADA compliance and sight distance requirements. The consultant did multiple iterations of the station canopy design which required additional meetings as well an extension of the contract time. Additional design services are necessary for non-prototypical station platforms and for the relocation of some stations to accommodate future development (Montecillo) and existing traffic conditions. Design services are also necessary for the design of a retaining wall and evaluation of existing retaining walls where the station platform and canopy are adjacent to a retaining wall. The additional design services also include the adjustment of existing illumination facilities where they are in conflict with the RTS station canopy or platform.

**PRIOR COUNCIL ACTION:**

June 14, 2011 award of Agreement for Professional Services

**AMOUNT AND SOURCE OF FUNDING:**

2011 Certificates of Obligation and Congestion Mitigation Air Quality (CMAQ) Improvement Program

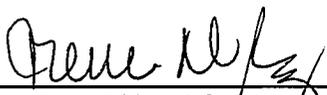
**BOARD / COMMISSION ACTION:**

N/A

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\*\*\*\*\*REQUIRED AUTHORIZATION\*\*\*\*\*

**DEPARTMENT HEAD:**



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(If Department Head Summary Form is initiated by Purchasing, client department should sign also)  
Information copy to appropriate Deputy City Manager

# RESOLUTION

## BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Manager be authorized to sign the First Amendment to the Agreement for Professional Services by and between the City of El Paso and Lockwood, Andrews & Newnam, Inc., a Texas Corporation, for a project known as "Mesa Corridor Rapid Transit System (Mesa Corridor RTS)" to add the additional design services, surveys and evaluations in the amount of Two Hundred Twenty Eight Thousand Five Hundred Twenty Four and No/00 Dollars (\$228,524), thereby extending the contract amount from \$1,480,791.00 to \$1,709,315.00 and extending the contract time from 225 calendar days to 303 calendar days.

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2012.

CITY OF EL PASO:

\_\_\_\_\_  
John F. Cook,  
Mayor

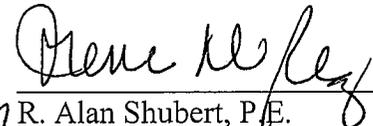
ATTEST:

\_\_\_\_\_  
Richarda Duffy Momsen,  
City Clerk

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

APPROVED AS TO CONTENT

  
\_\_\_\_\_  
for R. Alan Shubert, P.E.  
City Engineer

THE STATE OF TEXAS )  
 )  
COUNTY OF EL PASO )

FIRST AMENDMENT  
AGREEMENT  
FOR PROFESSIONAL SERVICES

This First Amendment to that certain Agreement for Professional Services is made this \_\_\_\_\_ day of \_\_\_\_\_, 2012, by and between the City of El Paso, a Texas municipal corporation (the "**Owner**"), and Lockwood, Andrews & Newnam, Inc., (the "**Consultant**").

**WHEREAS**, on June 14, 2011, the Owner entered into an Agreement for Professional Services (the "**Agreement**") with the Consultant for a Project known as "**MESA CORRIDOR RAPID TRANSIT SYSTEM (MESA CORRIDOR RTS)**", (the "**Project**");

**WHEREAS**, the Agreement may be amended under the provisions of Section 3.2 and Attachment "C"; and

**WHEREAS**, the parties hereto desire to amend the Agreement to provide additional design services, surveys and evaluations for the Mesa Corridor RTS, including the design of non-prototypical station platforms, the design for the relocation of other stations, the design of additional canopy configuration and concepts, the design of a retaining wall, additional surveys and soil investigations, structural evaluations of retaining walls and adjustment of existing illumination facilities, at an additional cost of \$228,524.00, thereby extending the contract amount from \$1,480,791.00 to \$1,709,315.00 and the extension of the contract time from 225 calendar days to 303 calendar days.

**NOW THEREFORE**, in consideration of the mutual promises set forth in this First Amendment and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. **Scope of Services.** The Owner hereby authorizes the Consultant to continue to perform the Services as described in Attachment "A" of the Agreement as well as perform the additional services as further described in Attachment "A" to this First Amendment.
2. **Payments to Consultant.** Payments to the Consultant shall be made pursuant to the schedule enumerated within Attachment "D" of the original agreement. Payment to the Consultant for the additional services the subject of this First Amendment shall not exceed TWO HUNDRED TWENTY EIGHT THOUSAND FIVE HUNDRED TWENTY FOUR AND 00/100 DOLLARS (\$228,524.00).
3. **Time of Completion.** The additional services shall be completed by extending the original project schedule as set forth in the Agreement by 78 calendar days, thereby extending the contract time from 225 calendar days to 303 calendar days, following the Owner's written Notice to Proceed to the Consultant.

4. **Terms and Conditions.** All terms and conditions of the Agreement and all subsequent Amendments thereto, except as herein revised, shall remain in full force and effect.

**WITNESS THE FOLLOWING SIGNATURES AND SEALS:**

**THE CITY OF EL PASO**

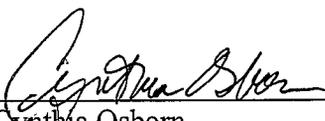
\_\_\_\_\_  
Joyce Wilson  
City Manager

**CONSULTANT**

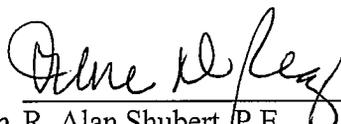
Lockwood, Andrews & Newnam, Inc.

  
\_\_\_\_\_  
By: Michael A. Feeney, P.E., EIT, E  
Title: Associate

**APPROVED AS TO FORM:**

  
\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

**APPROVED AS TO CONTENT:**

  
\_\_\_\_\_  
for R. Alan Shubert, P.E.  
City Engineer

**Supplemental No. 2 Scope of Services – Part A**

**Project:** Mesa Corridor Rapid Transit System (RTS)  
**Owner:** City of El Paso, Texas  
**Engineer:** Lockwood, Andrews & Newnam, Inc.

**General Description:**

The project consists of the development of the City of El Paso Rapid Transit System (RTS) Corridor in El Paso, Texas. The Mesa RTS Corridor originates at the Downtown Transit Center (DTC) connecting to the Glory Road Transfer Center and ultimately to the Westside Transit Terminal (WTT) at Remcon Circle and Mesa Street and generally described in the Project Scope – Attachment A of the Prime Agreement for professional services between the Owner and the Engineer.

The purpose of this supplemental is to amend the original contract to adjust the scope of services and fee related to the anticipated changes required to accommodate the request of the owner.

Generally, the additional services include:

- Relocation of the RTS Platforms from Sunland Park to Balboa (Preliminary Design only).
- Changes to Station Locations at Inbound Executive Center, Outbound Mesita and Inbound Rio Grande.
- Redesign and development of multiple station canopy concepts above and beyond what the original contract was intended (meetings and concepts).
- Developing exhibits and recommending station locations and ROW needs. Multiple iterations by adjusting the station location.
- Station platforms are not prototypical (width, length and height vary).
- Sidewalk plans beyond the 220' from station at Executive and Resler.
- Structural evaluation of existing retaining wall adjacent to Inbound Rio Grande Station and outbound Balboa.
- Architectural Design for additional canopy configuration.
- Structural evaluation of additional canopy configuration.
- Structural Design of the Pylon Foundation.
- Retaining wall design at Outbound Mesita (Interface with platform).
- Additional Soils Investigation at Balboa and Mesita.
- Identify existing utility manholes and valves to be adjusted and describe in plans by simply labeling to be adjusted. Develop Summary of these items and include in estimate. Specifications to be provided by others.
- Increase days within Project Schedule for Pre Final and Final Design.

The following are the additional services associated with this supplemental to be provided by the Design Team:

## **1.1 Project Management**

### **General**

Coordinate with sub-contractors associated with additional work to include scope and contract development along with additional effort associated with contract negotiations.

### **1.1.02 Schedule Control**

#### **1.1.02.1 Baseline Schedule**

1. Due to changes in the Mesa Schedule as a result of Canopy Concept design, LAN will review and develop updated schedule (2 additional updates).

### **1.1.06 Design Reviews**

1. Preliminary Design Review for Inbound Executive Center, Outbound Mesita, and Inbound Rio Grande as these stations will have to be updated for future submittals.
2. QCQA for Balboa Inbound and Outbound Stations.
3. Design reviews for multiple (13) station configurations as each station will be modified to fit the parkway condition (Civil and Structural).

### **1.1.09 Design Analysis**

1. Station relocation from Sunland Park to Balboa (2) Stations.
2. Design analysis for Inbound Executive Center, Outbound Mesita and Inbound Rio Grande as these stations are being relocated.
3. Development of analysis for (13) station platform configurations (civil and structural).

## **1.2 Investigation**

### **1.2.02 Soils Investigation**

1. Additional Soil borings will be required at the Balboa Stations and outbound Mesita station.

### **1.2.05 Sidewalks**

1. Include sidewalk improvements for limits beyond the 220' limits originally described in contract (Montana, Executive and Resler).
2. Develop Sidewalk plans for Balboa Stations.

## **1.3 Geometric Planning**

### **1.3.02 Civil –In-Line Station Sites**

1. Develop a maximum of 13 platform configurations.

## **1.4 Utility & Drainage**

### **1.4.01 Drainage –In-Line Station Sites**

1. Preliminary Plan Layout for Station Locations at Balboa (2) Stations.

#### **1.4.03 Utility Coordination**

1. Evaluate and Review record drawings produced by utility companies for the Balboa Intersection.
2. Prepare existing utility Layouts for the Balboa intersection and review survey information at this location.
3. Coordinate with Utility agencies for this new location.

### **1.5 Stations Architecture**

#### **1.5.01 Station Planning/Architecture-In-Line Station Sites**

1. Develop additional station canopy concepts.
2. Attend additional meetings regarding these concepts and consensus building.

### **1.6 Stations MEP & Foundation /Structural**

#### **1.6.01 Station Structural**

1. Due to the change in the canopy design, the Preliminary Design for the foundation will need to be re-designed to accommodate the new Canopy configuration.

## **Pre-Final Design Phase**

### **2.1 Project Management**

#### **2.1.06 Design Reviews**

1. Review for Balboa Station Improvements and Balboa Intersection.
2. Pre Final Design Reviews for multiple (13) station configurations as each station will be modified to fit the parkway condition.

#### **2.1.09 Design Analysis**

1. Development of analysis for (13) station platform configurations.
2. Additional landscaping, pedestrian illumination and sidewalk replacement as the limits of these improvements are beyond the original 220' from the center of the station.

#### **2.1.11 Cost Estimates**

1. Additional cost estimating related to increase in scope as it relates to Civil platform design, structural platform design, landscaping, pedestrian lighting and sidewalks.

### **2.3 Traffic Signals and Lane Configuration**

1. Develop Pedestrian Signal and Pavement Markings at Balboa.
2. Develop additional pedestrian traffic control plans due to increase of sidewalk limits.

## **2.4 Civil/Drainage Design**

1. Develop 13 platform configurations instead of one prototypical.
2. Additional sidewalk analysis at Balboa.
3. Additional sidewalk analysis and profile development at Executive and Resler.
4. Additional Pavement reconfiguration at Outbound Franklin, Inbound Festival, and Outbound Camille.
5. Driveway analysis and plan development for level sidewalk (40 driveways max)

## **2.5 Stations Architecture**

### **2.5.01 Station Planning/Architecture-In-Line Station Sites**

1. Pedestrian Lighting Layouts will include all four quadrants along with 80' max along the side streets.
2. Additional canopy configuration.
3. Renderings of the following locations and canopy sizes (including 2 closeups):
  - Franklin outbound, 9'x62'
  - Rio Grande Inbound, 6'x46'
  - Resler Inbound, 9'x62'
  - Camille Outbound, 6'x62'
  - Festival Outbound, 9'x46'
  - Balboa Outbound, 6x46'

## **2.6 Stations MEP & Foundation /Structural**

### **2.6.01 Station Structural**

Foundation Design will be required for 13 platform configurations.

1. Special structural consideration will be required at Rio Grande adjacent to existing retaining wall
2. Special retaining wall design will be required at Outbound Mesita.
3. Structural design of the Pylon Foundation.

## **2.7 Stations MEP & Foundation /Structural**

## **3.0 Final Design Phase**

### **3.1 Project Management**

#### **3.1.06 Design Reviews**

- 1 Final design reviews for multiple (13) station configurations as each station will be modified to fit the parkway condition.

#### **3.1.09 Design Analysis**

1. Development of analysis for (13) station platform configurations.

### **3.1.11 Cost Estimates**

1. Additional cost estimating related to increase in scope as it relates to non-prototypical design; civil platform design, structural platform design, landscaping, pedestrian lighting, and sidewalks.
2. Additional cost estimating related to Balboa intersection.

### **3.3 Traffic Signals and Lane Configuration**

1. Complete pedestrian signal and pavement marking items at Balboa.

### **3.4 Civil/Drainage Design**

- 1 Develop 13 platform configurations instead of one prototypical.
- 2 Additional sidewalk analysis at Balboa.
- 3 Additional pedestrian signal and pavement markings at Balboa.
- 4 Additional pavement reconfiguration at Outbound Franklin, Inbound Festival, and Outbound Camille.
- 5 Driveway analysis and plan development for level sidewalk (40 driveways max).

### **3.6 Stations MEP & Foundation /Structural**

#### **3.6.01 Station Structural**

1. Concrete foundation design will be required for 13 platform configurations.
2. Special structural consideration will be required at Rio Grande adjacent to existing Retaining Wall.
3. Special retaining wall design will be required at Outbound Mesita. This wall to be attached to the station platform.
4. Structural Design of the Pylon Foundation.

## **5.0 Project Schedule**

Pre-Final Design - Add 34 calendar days for a total of 114 Days (Due March 1<sup>st</sup>, 2012)

Final Design – Add 44 calendar days for a total of 84 Days (Due June 14<sup>th</sup>, 2012)

#### **Schedule Assumptions:**

- 1 Three (3) Week City/TxDOT Review
- 2 Limits of sidewalk, landscaping and illumination to be culminated by January 1<sup>st</sup>, 2012. City to provide final locations.
- 3 Hague intersection to be completed by January 1<sup>st</sup> such that survey can be obtained.
- 4 No changes to station locations over 50 feet in any direction.
- 5 Details and construction for Public Art elements will be executed under separate contract.
- 6 Structural Analysis of Permanent Shoring or Temporary shoring for Existing Buildings. Contractor will be required to develop Shoring adjacent to Existing Buildings. Review of contractor calculations to be additional services and not part of this scope.

#### **NOT INCLUDED IN SUPPLEMENTAL**

- Changes to accommodate Montecillo station locations
- Coordination between SUE provider and surveyor.
- Coordination with FEMA or Floodplain administrator
- Construction staking or ROW delineation beyond setting corners during the metes and bounds process for each station location.
- Driveway, sidewalk or construction easement and documentation exhibits
- No further work for the Argonaut Station or intersection as this has been relocated to the Montecillo development area.
- No further sidewalk, pavement markings or ADA improvements will be implemented at Sunland Park as the station will be moved to Balboa.
- Special structural loading on existing utilities that may remain under the platform.
- Utility coordination and follow up after Bid documents are submitted.
- The accuracy of the proposed utilities design or construction will not be the responsibility of LAN. It will be the responsibility of each agency to ensure that the adjustments are clear of the proposed design.
- Parking mitigation, including any ADA spaces.
- Existing regular bus route and/or station impacts and mitigation during temporary or permanent conditions.
- Solar Lighting.
- Wayfinding along corridor or at stations
- Shop drawings for artwork including shade panels will be reviewed by others during construction.
- Geotechnical data required for existing retaining wall analysis.
- Mitigation plans for supporting modifying existing retaining walls.
- Value Engineering and or VE Workshop
- Survey for driveway penetrations.

Phase / Firm	LAN	SSW	LTK	CDA	Mci	FXSA	Totals
PE Phase	33,302				28,827		\$ 62,129
Pre Final	47,949						\$ 47,949
Final Design	37,809						\$ 37,809
Subtotal LS	119,060	-	-	-	28,827	-	\$ 147,887
Bid & Construction	-						\$ -
<b>Total Fee</b>	<b>119,060</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>28,827</b>	<b>-</b>	<b>\$ 147,887</b>

Note: FXSA and CDA sub consultant cost are within LAN's Fee













City of El Paso  
Mesa Corridor Rapid Transit System (RTS)  
Price Proposal for Additional Engineering Services  
Moreno Cardenas Inc.

Payroll OH 59%  
G&A OH 123%  
Billing Multiplier 3.23  
Raw Rate \$65 \$39 \$27 \$19 \$18  
Billable Rate \$210 \$126 \$87 \$61 \$58

		Price	Labor Price	Total Hours	Sr Prof	Eng / Prof	Jr Eng / Jr Prof	Tech / CADD	Admin	Direct Expenses	Sub-contract Cost
<b>1.0 Preliminary Design Phase (Additional Services)</b>											
1.1 Project Management											
Staff Assignments, Supervision and Administration	ALL	\$1,480	\$1,410	12	2	6			4	\$70	
	Subtotal	\$1,480	\$1,410	12	2	6	0	0	4	\$70	\$ -
1.2 Investigation											
Site Visit(s)	ALL	\$896	\$854	8		4	4			\$43	
Data Collection	ALL	\$632	\$601	6		2	4			\$30	
	Subtotal	\$1,528	\$1,455	14	0	6	8	0	0	\$73	\$ -
1.4 Utilities											
Utility Information Collection	MCI	\$448	\$427	4		2	2			\$21	
SUE Coordination with Engineer and Owner	MCI	\$4,061	\$3,867	40	2	14	8	16		\$193	
Update Utility Exhibits	MCI	\$3,314	\$3,156	40		6	12	22		\$158	
	Subtotal	\$7,823	\$7,450	84	2	22	22	38	0	\$373	-
1.5 Civil Design											
Revise Drainage Area Maps	MCI	\$2,645	\$2,519	31	1	4	8	18		\$126	
Prepare P&P Sheets	MCI	\$3,141	\$2,991	37	1	4	12	20		\$150	
Prepare Plan Sheet	MCI	\$2,737	\$2,606	30	2	4	8	16		\$130	
Custom Station Layouts (up to 13 typical)	MCI	\$5,164	\$4,918	43	8	14	7	14		\$246	
P&P/Layout adjustment for 5 Different Layouts	MCI	\$4,309	\$4,104	39	4	14	8	13		\$205	
	Subtotal	\$17,995	\$17,139	180	16	40	43	81	0	\$857	\$ -
<b>Subtotal Preliminary Design Phase</b>		<b>\$28,827</b>	<b>\$27,454</b>	<b>290</b>	<b>20</b>	<b>74</b>	<b>73</b>	<b>119</b>	<b>4</b>	<b>\$1,373</b>	<b>\$0</b>

## **Supplemental No. 2 Part B Revisions Not included in Original Scope of Services**

**Project:** Mesa Corridor Rapid Transit System (RTS)  
**Owner:** City of El Paso, Texas  
**Engineer:** Lockwood, Andrews & Newnam, Inc.

### **General Description:**

The project consists of the development of the City of El Paso Rapid Transit System (RTS) Corridor in El Paso, Texas. The Mesa RTS Corridor originates at the Downtown Transit Center (DTC) connecting to the Glory Road Transfer Center and ultimately to the Westside Transit Terminal (WTT) at Remcon Circle and Mesa Street and generally described in the Project Scope – Attachment A of the Prime Agreement for professional services between the Owner and the Engineer.

The purpose of this supplemental is to amend the original contract to include new task not originally included in the scope of services and fee related this project as requested by the owner.

Generally, the new services include:

- Development of Illumination plans related to the adjustment of existing facilities on Franklin Only. The city will develop all other plans associated with existing Illumination along Mesa and Oregon as needed for Street lighting.
- Development of IB Camille at the Far Side intersection location. This includes both Preliminary and Pre Final Designs.
- Development of one additional station at the DTC. Exact location to be determined.
- Development of Plans for the Montecillo station (Preliminary Design only) Pre Final and Final are considered part of original scope as a change from Argonaut.
- Coordination for the Montecillo station design and Developer
- Survey of approximately 500 feet along IB Montecillo (centerline to ROW only)
- Survey Potholes for Utility Agencies (City to manage SUE Operations)
- Obtain Soil Boring at IB Montecillo

The following are the additional services associated with this supplemental to be provided by the Design Team:

### **1.1 Project Management**

#### **General**

Coordinate with sub-contractors associated with additional work to include scope and contract development along with additional effort associated with contract negotiations.

#### **1.1.02 Schedule Control**

#### **1.1.06 Design Reviews**

1. Illumination Adjustment plans for Franklin only
2. Development of Plans for IB Camille (New Location)

3. Design Review for Montecillo design
4. Demo Sheets

#### **1.1.09 Design Analysis**

1. Illumination Adjustments at Franklin only
2. Site Triangles at Camille
3. Site Triangles at Montecillo
4. Drainage at Montecillo
5. Drainage at Camille

### **1.2 Investigation**

#### **1.2.02 Soils Investigation**

1. Additional Soil borings will be required at IB Montecillo

#### **1.2.04 Surveys**

1. Obtain additional topo of approximately 500 feet along Mesa from the centerline to ROW only.
2. Survey Potholes for Utility Agencies. (Estimated at 30 Site visits)

#### **1.2.05 Sidewalks**

1. Update sidewalk improvements and driveways for IB Camille (New Location)
2. Site Visits (Camille and Montecillo)

### **1.3 Geometric Planning**

#### **1.3.01 Traffic – Systems**

#### **1.3.03 Civil –In-Line Station Sites**

1. Develop platform design for IB Camille
2. Develop platform design for IB Montecillo
3. Develop proposed electrical easement on Montecillo development. Survey documents to be additional services if needed.

#### **1.3.04 Civil – Construction Sequence**

#### **1.3.05 Civil – Street Geometrics**

1. Develop street geometrics for IB Montecillo

### **1.4 Utility & Drainage**

#### **1.4.01 Drainage –In-Line Station Sites**

1. Update drainage for IB Camille
2. Develop drainage for IB Montecillo

#### **1.4.03 Utility Coordination**

1. Evaluate and Review record drawings produced by utility companies for the IB Montecillo.

2. Coordinate with Utility agencies for the IB Montecillo.

## **1.5 Stations Architecture**

### **1.5.01 Station Planning/Architecture-In-Line Station Sites**

## **1.6 Stations MEP & Foundation /Structural**

### **1.6.01 Station Structural**

## **Pre-Final Design Phase**

### **2.1 Project Management**

#### **2.1.06 Design Reviews**

1. Illumination Adjustments at Franklin only
2. Development of Plans for IB Camille (New Location)

#### **2.1.09 Design Analysis**

1. Illumination Adjustments at Franklin Only
2. Drainage at Camille
3. Develop Exhibits for Adjacent Property Circulation Plans (4 Locations).  
Not for construction use. Remove

#### **2.1.11 Cost Estimates**

1. Illumination adjustments at Franklin Only
2. IB Camille (Civil, landscaping, Illumination and SOW)
3. Demo Sheets

### **2.3 Geometric Planning**

#### **2.3.03 Civil –In-Line Station Sites**

1. Develop platform design at IB Camille
2. Update Layout for IB Camille

#### **2.3.04 Civil – Construction Sequence**

1. Update IB Camille

#### **2.3.05 Civil – Street Geometrics**

### **2.4 Utility & Drainage**

#### **2.4.01 Drainage –In-Line Station Sites**

1. Plan Layout IB Camille

#### **2.4.03 Utility Coordination**

## **2.5 Stations Architecture**

### **2.5.01 Station Planning/Architecture-In-Line Station Sites**

## **2.6 Stations MEP & Foundation /Structural**

### **2.6.01 Station Structural**

- 1 Analyze foundation for IB Camille
- 2 Develop Foundation Design for IB Camille
- 3 Develop Retaining wall design adjacent to sidewalk including details for IB Montecillo

## **2.7 Landscaping and Irrigation**

- 1 Update Landscape Design at IB Camille

## **3.6 Stations MEP & Foundation /Structural**

### **3.6.01 Station Structural**

- 1 Analyze Illumination for Adjustments at Franklin only
- 2 Develop Summary sheets and Estimate for Illumination
- 3 Utility Coordination for Adjustments of Illumination at Franklin

## **5.0 Project Schedule**

See Supplemental 2 Part A

### **Schedule Assumptions:**

See Supplemental 2 Part A

City to provide all as built for existing Illumination

### **NOT INCLUDED IN SUPPLEMENTAL**

- Sidewalk at Montecillo Blvd to remain as constructed by developer (No sidewalk improvements by this contract)
- Illumination adjustments to existing facilities along Oregon and Mesa to be completed by City.
- Signal Design at Montecillo (includes Safety Illumination, Ped Heads and Curb Ramps) to be completed by developer.
- Metes and Bounds for Electrical Easements
- Mid-Block Crossing implementation
- Montecillo OB

### **ITEMS REMOVED FROM ORIGINAL SCOPE**

- Shade Analysis
- One Queue Jump analysis
- Reclaimed Water

- Base Traffic Analysis
- TSP analysis

These items were considered as a result of the agreed fee for this supplemental.

Phase / Firm	LAN	SSW	LTK	CDA	Mci	FXSA	Totals
PE Phase	42,431				9,137		\$ 51,568
Pre Final	19,824						\$ 19,824
Final Design	9,244						\$ 9,244
<i>Subtotal LS</i>	<i>71,500</i>	-	-	-	<i>9,137</i>	-	<i>\$ 80,637</i>
Bid & Construction	-						\$ -
<b>Total Fee</b>	<b>71,500</b>	-	-	-	<b>9,137</b>	-	<b>\$ 80,637</b>

Note: FXSA and CQC sub consultant cost are within LAN's Fee



City of El Paso  
 Sun Metro Mesa RTS  
 Price Proposal for Design Services  
 LAN

OH	188.630%
Fee	15.000%
Billing Multiplier	3.23

	Price	Labor Price	Total Hours	Project Manager	Design Manager	Eng / Prof	Jr Eng / Jr Prof	Tech / CADD	Admin	Structural Eng	Structural Engineer	Clerical	Electrical Eng	Quality Control	Designer (EIT)	Direct Expenses	TOTAL Subcontracted Cost
<b>2.0 Pre-Final Design Phase</b>																	
<b>2.1 Project Management</b>																	
Illumination Adjustment Reviews (Franklin )	LAN	\$1,007	\$1,007	6		2	4										
Development of Plans for IB Camille (New Location)	LAN	\$1,007	\$1,007	6		2	4										
Illumination Design Analysis (Franklin)	LAN	\$387	\$387	2		2											
Develop Exhibits for Adjacent Property Circulation Plans (4 Locations) (Not for Construction Use)	LAN	\$0	\$0	0													
Demo Sheets Review	LAN	\$310	\$310	2			2										
Staff Assignments and Supervision	LAN	\$854	\$854	4	2	2											
Monthly Report & Invoicing due to supplementals	LAN	\$673	\$673	6	2								4				
		\$4,237	\$4,237	26	4	8	10	0	0	0	0	0	4	4	0	0	0 \$
<b>2.3 Geometric Planning (Traffic Signals and Lane Configuration)</b>																	
Develop platform design at IB Camille	LAN	\$930	\$930	5	1	2	2										
Update Sequence of Work at IB Camille	LAN	\$2,818	\$2,818	21	1	4	4		4								8
		\$3,748	\$3,748	26	2	6	6	0	4	0	0	0	0	0	0	0	8 \$
<b>2.4 Utility and Drainage</b>																	
Illumination Utility Coordination at Franklin and Mesa	LAN	\$4,377	\$4,377	25	1	4	8										
Drainage and Utility at Montecillo	LAN	\$1,394	\$1,394	8		4	4										
		\$5,771	\$5,771	8	0	4	4	0	0	0	0	0	0	0	0	0	0 \$
<b>2.5 Stations Architecture</b>																	
	LAN	\$0	\$0	0													
	LAN	\$0	\$0	0													
<b>2.6 Stations MEP and Foundation / Structural</b>																	
Analyze Structural Design at IB Camille	LAN	\$1,621	\$1,621	10	1	1					4	4					
Develop Foundation Design at IB Camille	LAN	\$2,424	\$2,424	18	1	1				4	4						8
Develop Retaining Wall at IB Montecillo	LAN	\$2,024	\$2,024	14	1	1			4	4	4	4					
		\$6,069	\$6,069	42	3	3	0	0	8	0	12	8	0	0	0	0	8 \$
	LAN	\$0	\$0	0													
	LAN	\$0	\$0	0													
		\$0	\$0	0													
		\$0	\$0	0													
		\$0	\$0	0													
		\$0	\$0	0													
<b>2.8 ITS Design</b>																	
	LTK	\$0	\$0	0													
	LTK	\$0	\$0	0													
	LTK	\$0	\$0	0													
	LTK	\$0	\$0	0													
	LTK	\$0	\$0	0													
	LTK	\$0	\$0	0													
		\$0	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 \$
<b>2.9 Value Engineering Workshop</b>																	
	LAN	\$0	\$0	0													
		\$0	\$0	0													
		\$19,824	\$19,824	102	9	21	20	0	12	0	12	8	4	0	0	16	0 \$



**City of El Paso**  
**Mesa Corridor Rapid Transit System (RTS)**  
**Price Proposal for Additional Engineering Services**  
**Improvements for Montecillo IB, Camille IB, & DTC Stations**  
**Moreno Cardenas Inc.**

Prepared on 3/29/12

Payroll OH 59%  
 G&A OH 123%  
 Billing Multiplier 3.23

Raw Rate \$65 \$39 \$27 \$19 \$18  
 Billable Rate \$210 \$126 \$87 \$61 \$58

			Price	Labor Price	Total Hours	Sr Prof	Eng / Prof	Jr Eng / Jr Prof	Tech / CADD	Admin	Direct Expenses	Sub-contract Cost
<b>1.0</b>	<b>Preliminary Design Phase (Additional Services)</b>											
	1.1 Project Management											
	Staff Assignments, Supervision and Administration	ALL	\$581	\$553	6		3			3	\$28	
		Subtotal	\$581	\$553	6	0	3	0	0	3	\$28	\$ -
	1.2 Investigation											
	Site Visit(s)	ALL	\$265	\$252	2		2				\$13	
	Data Collection	ALL	\$183	\$175	2			2			\$9	
		Subtotal	\$448	\$427	4	0	2	2	0	0	\$21	\$ -
	1.4.03 Civil Design - Drainage											
	Revise Drainage Area Maps	MCI	\$1,015	\$967	13		1	4	8		\$48	
	Prepare P&P Sheets	MCI	\$2,258	\$2,150	25	1	4	8	12		\$108	
	Prepare Plan Sheet	MCI	\$1,460	\$1,390	18		2	6	10		\$70	
		Subtotal	\$4,733	\$4,508	56	1	7	18	30	0	\$225	-
	1.4.01 Civil Design - Utilities											
	Utility Information Collection	MCI	\$265	\$252	2		2				\$13	
	Update Utility Exhibits	MCI	\$781	\$744	10		2		8		\$37	
		Subtotal	\$1,046	\$996	12	0	4	0	8	0	\$50	\$ -
<b>2.0</b>	<b>Pre-Final Design Phase</b>											
	2.1.09 Update Drainage at IB Camille	MCI	\$353	\$336	4		1	1	2		\$17	
	2.1.11 Provide Revised Quantities for Cost Estimate	MCI	\$183	\$175	2			2			\$9	
	2.303 Update Plan View for revised station	MCI	\$832	\$792	11		1	2	8		\$40	
	2.4.01 Update P&P for revised station	MCI	\$961	\$915	13		1	2	10		\$46	
		Subtotal	\$2,329	\$2,218	30	0	3	7	20	0	\$111	\$ -
	<b>Subtotal Preliminary &amp; Pre-Final Design Phases</b>		<b>\$9,137</b>	<b>\$6,484</b>	<b>78</b>	<b>1</b>	<b>16</b>	<b>20</b>	<b>38</b>	<b>3</b>	<b>\$324</b>	<b>\$0</b>