

Siemens Industry, Inc.**FIRST AMENDMENT TO AGREEMENT FOR SERVICES # *AGMT 11-53162***

THIS FIRST AMENDMENT to that Agreement for Services # AGMT 11-53162 made and entered into by and between the County of El Dorado, a political subdivision of the State of California (hereinafter referred to as "County"), and former Republic Intelligent Transportation Services, Inc., a corporation now merged into Siemens Industry, Inc., a Delaware corporation duly qualified to conduct business in the State of California, whose principal place of business is 1000 Deerfield Parkway, Buffalo Grove, Illinois 60089, and whose local office address is 371 Bel Marin Keys Boulevard, Suite 200, Novato, California 94949 (hereinafter referred to as "Contractor");

RECITALS

WHEREAS, Republic Intelligent Transportation Services, Inc. has been engaged by County to provide services necessary to maintain and repair traffic signals and associated equipment for the Department of Transportation in accordance with Agreement for Services # AGMT 11-53162, dated June 21, 2011, incorporated herein and made by reference a part hereof;

WHEREAS, Republic Intelligent Transportation Services, Inc. was acquired by Contractor in 2010, and has now been merged into its parent company, Siemens Industry, Inc. effective October 1, 2012;

WHEREAS, Siemens Industry, Inc. is liable for all obligations, covenants, conditions, and/or liabilities for services performed prior to October 1, 2012 under the terms and conditions of Agreement for Services # AGMT 11-53162, as approved by the County of El Dorado Board of Supervisors and executed on June 21, 2011;

WHEREAS, Contractor acknowledges and agrees that all existing indemnity and insurance obligations of Republic Intelligent Transportation Services, Inc. will remain in force and effect for services performed prior to October 1, 2012 as an obligation of Siemens Industry, Inc. for the duration of Agreement for Services # AGMT 11-53162 and as thereafter required by the Agreement;

WHEREAS, the parties hereto desire to amend Agreement for Services # AGMT 11-53162 to add annual Conflict Monitoring Unit (CMU) and Malfunctioning Monitoring Unit (MMU) field testing and certification to the services provided and to include an Annual Conflict Monitoring Unit (CMU) and Malfunctioning Monitoring Unit (MMU) Testing Report Checklist detailing the requirements for the service, amending **ARTICLE I, Scope of Services** and adding **Amended Exhibit A**;

WHEREAS, the parties hereto desire to amend Agreement for Services # AGMT 11-53162 to include rates for annual CMU and MMU field testing and certification and for replacement of LED lamps and associated parts, amending **ARTICLE III, Compensation for Services** and adding **Amended Exhibit C**;

WHEREAS, the parties hereto desire to amend Agreement for Services # AGMT 11-53162 to change one of the County's notices recipients, amending **ARTICLE XIX, Notice to Parties**;

WHEREAS, the parties hereto desire to amend Agreement for Services # AGMT 11-53162 to include revisions to the County's insurance requirements, amending **ARTICLE XXI, Insurance**;

WHEREAS, the parties hereto desire to amend Agreement for Services # AGMT 11-53162 to reflect the Contractor licenses held by Siemens Industry, Inc., amending **ARTICLE XXII, Licenses**;

WHEREAS, the parties hereto desire to amend Agreement for Services # AGMT 11-53162 to change County's Contract Administrator, amending **ARTICLE XXXIII, Contract Administrator**;

NOW, THEREFORE, the parties agree as follows:

Contractor acknowledges and agrees that it is responsible for all duties, covenants and obligations of Republic Intelligent Transportation Services, Inc. under this Agreement prior to October 1, 2012 and is responsible for performing all remaining services required under the Agreement for Services # AGMT 11-53162, as amended, in accordance with all terms and conditions as defined in the Agreement, after October 1, 2012.

Additionally, the parties do hereby agree that Agreement for Services # 11-53162 shall be amended to read as follows:

ARTICLE I, Scope of Services, of the original Agreement is deleted in its entirety and the following Article is added in its place to read as follows:

ARTICLE I

Scope of Services: Contractor agrees to furnish personnel, materials, services and equipment necessary to assist the Department of Transportation in maintaining and repairing traffic signals and associated equipment. Services shall include, but not be limited to, those tasks as identified in Amended Exhibit A, marked "Amended Scope of Services," incorporated herein and made by reference a part hereof.

ARTICLE III, Compensation for Services, of the original Agreement is deleted in its entirety and the following Article is added in its place to read as follows:

ARTICLE III

Compensation for Services: For services provided herein, County agrees to pay Contractor monthly in arrears. Payment shall be made within thirty (30) days following County receipt and approval of itemized invoices detailing the services rendered.

For the purposes hereof, for the period beginning with the effective date of this Agreement and continuing until the day before the effective date of this First Amendment to Agreement for Services # AGMT 11-53162, the billing rates shall be in accordance with Exhibit B, marked "Current List of County Maintained Traffic Signals," and Exhibit C, marked "Cost Proposal: Table of Equipment and Labor Rates," incorporated herein and made by reference a part hereof.

For the period beginning with the effective date of this Amendment and continuing through the remaining term of the Agreement, the billing rates shall be in accordance with Exhibit B, marked "Current List of County Maintained Traffic Signals," and Amended Exhibit C, marked "Amended Cost Proposal: Table of Equipment and Labor Rates," incorporated herein and made by reference a part hereof. Amended Exhibit C indicates equipment and labor rates that are effective from the effective date of this Amendment through June 30, 2014. Upon Request, Contractor shall provide rates for additional services not listed on Amended Exhibit C. Payment for replacement parts or materials shall be made in accordance with the provisions of Section 3.4 of Amended Exhibit A hereto.

The total amount of this Agreement, as amended, shall not exceed \$420,000 inclusive of all costs and expenses.

Itemized invoices shall follow the format specified by County and shall reference this Agreement number on their faces. Each invoice submitted for payment must include copies of the applicable Monthly Routine Maintenance Checklist, Semi-Annual Routine Maintenance Checklist and/or the Annual Conflict Monitoring Unit (CMU) and Malfunctioning Monitoring Unit (MMU) Testing Report Checklist, as specified in Amended Exhibit A hereto. Copies of documentation attached to invoices shall reflect Contractor's charges for the specific services billed on those invoices. Invoices shall be mailed to County at the following address:

County of El Dorado
Department of Transportation
2850 Fairlane Court
Placerville, California 95667
Attn.: Administration Division – Accounts Payable

or to such other location as County directs.

In the event that Contractor fails to complete and, where applicable, submit in the format specified, the various checklists, reports, notices and cabinet logs required by this Agreement, including the completion and, where applicable, the submission of all of the

items required in Amended Exhibit A hereto, County at its sole option may delay the monthly payment for the period of time of the delay, cease all payments until such time as the required items are completed and, where applicable the deliverables are received.

ARTICLE XIX, Notice to parties, of the original Agreement is deleted in its entirety and the following Article is added in its place to read as follows:

ARTICLE XIX

Notice to Parties: All notices to be given by the parties hereto shall be in writing and served by depositing same in the United States Post Office, postage prepaid and return receipt requested. Notices to County shall be in duplicate and addressed as follows:

To County:

County of El Dorado
Department of Transportation
2441 Headington Road
Placerville, California 95667

Attn.: Don Spear
Acting Deputy Director
Maintenance and Operations Division

With a Copy To:

County of El Dorado
Department of Transportation
2850 Fairlane Court
Placerville, California 95667

Attn.: Janel Gifford
Office Engineer/Contract Services Unit

or to such other location as County directs.

Notices to Contractor shall be addressed as follows:

Siemens Industry, Inc.
371 Bel Marin Keys Boulevard, Suite 200
Novato, CA 94949-5699

Attn.: Dana Rasmussen, Senior Director

or to such other location as Contractor directs.

ARTICLE XXI, Insurance, Sections B. and H.2 of the original Agreement are hereby amended as follows:

ARTICLE XXI

Insurance: Consultant shall provide proof of a policy of insurance satisfactory to County's Risk Management Division and documentation evidencing that Consultant maintains insurance that meets the following requirements:

- B. Commercial General Liability Insurance of not less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage and a \$2,000,000 aggregate limit.

H. The certificate of insurance must include the following provisions stating that:

2. The County of El Dorado, its officers, officials, employees, and volunteers are included as additional insured, on an additional insured endorsement, but only insofar as the operations under this Agreement are concerned. This provision shall apply to all general and excess liability insurance policies

ARTICLE XXII, Licenses, of the original Agreement is deleted in its entirety and the following Article is added in its place to read as follows

ARTICLE XXII

Licenses: Contractor warrants and represents that it holds a valid California license pursuant to the Contractors' State License Law (Business and Professions Code Sections 7000, et seq.), that its license is in good standing and that it possesses a Class A General Engineering Contractor License; a Class B Building Contractor License, and a Class C10 Electrical Contractor License as required by the categories and types of work to be performed under this Agreement. A copy of Contractor's State Contractors' license must be provided with this Agreement.


ARTICLE XXXIII, Contract Administrator, of the original Agreement is deleted in its entirety and the following Article is added in its place to read as follows

ARTICLE XXXIII

Contract Administrator: The County Officer or employee with responsibility for administering this Agreement is Don Spear, Acting Deputy Director, Maintenance and Operations Division, Department of Transportation, or successor.

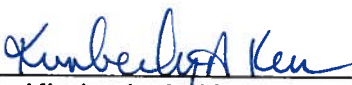
Except as herein amended, all other parts and sections of Agreement for Services # AGMT 11-53162 shall remain unchanged and in full force and effect.

Contract Administrator Concurrence:

By: 
Don Spear
Acting Deputy Director
Maintenance and Operations Division
Department of Transportation

Dated: 12/18/12

Requesting Department Concurrence:

By: 
Kimberly A. Kerr, Interim Director
Department of Transportation

Dated: 12/17/12

IN WITNESS WHEREOF, the parties hereto have executed this First Amendment to Agreement for Services # AGMT 11-53162 on the dates indicated below, the latest of which shall be deemed to be the effective date of this Amendment.

-- COUNTY OF EL DORADO --

By: _____

Dated: _____

Board of Supervisors
"County"

Attest:
James S. Mitrison
Clerk of the Board of Supervisors

By: _____
Deputy Clerk

Dated: _____

-- SIEMENS INDUSTRY, INC.

By: 
Dana Rasmussen
Senior Director
"Contractor"

Dated: 1/1/2013

By: 
Neway Redia
Senior Director of Finance

Dated: 1/1/2013

Siemens Industry, Inc.

Amended Exhibit A

Amended Scope of Services

1. SERVICES

Contractor shall provide ongoing and regular field preventive maintenance and repairs on all traffic signal equipment listed in Exhibit B, marked "Current List of County Maintained Traffic Signals," incorporated herein and made by reference a part hereof, all associated lighting with the exception of illuminated street name signs, and all other associated apparatus using duly trained and qualified personnel.

Contractor shall furnish and retain a journeyman electrician with IMSA level II certification and a minimum of three (3) years experience in traffic signal repairs during the entire term of the Agreement. The technician shall be familiar with the operation and use of all traffic signal equipment in use in El Dorado County and shall also be familiar with, and adhere to, all current applicable Caltrans standards and specifications including, but not limited to, programming standards for both traffic signal and interconnect timings of controllers. Contractor shall use work zone traffic control measures as provided in the most current edition of the *California Manual on Uniform Traffic Control Devices* whenever traffic control is necessary or as directed by the Contract Administrator.

Contractor shall provide and maintain emergency service response on a twenty-four (24) hour, seven (7) day per week basis, including all holidays, utilizing a personnel hoist truck equipped with radio dispatch or cellular communications capabilities for County requested service throughout the term of this Agreement.

Contractor shall have available, and readily accessible, all required tools, equipment, apparatus, facilities and materials to perform all work necessary to maintain and repair the traffic signals and associated equipment covered by this Agreement in compliance with current Caltrans standards and specifications.

Contractor shall furnish temporary replacement traffic signal controllers, detectors, conflict monitors and other standard signal equipment whenever the original units are removed for repair or servicing at no additional charge to County.

Contractor shall cooperate with the Contract Administrator or his designee in re-calibrating signal timing and progression. Contractor will not change the timing of any signal except under the direction or written concurrence of the Contract Administrator.

Under emergency conditions, Contractor shall assure full cooperation with the California Highway Patrol (CHP), the El Dorado County Sheriff's Department, and employees of the El Dorado County Department of Transportation.

Contractor shall complete the Cabinet Log located in each signal cabinet every time the cabinet is opened to provide service under this Agreement. The Cabinet Log will be provided by County and will require Contractor to include the date of the log, arrival and departure times, description of the work performed, and name of Contractor's employee performing the work.

Contractor shall not represent El Dorado County in matters of policy or procedures under this Agreement, shall not make any reference to County policy or procedures, and shall refer all questions or inquires from the public regarding policy and procedures or terms of this Agreement to the Contract Administrator.

1.1 FAILURE TO PERFORM

Notwithstanding any other remedies, County may have, should Contractor fail to properly perform the work as provided under the terms of this Agreement, County, after providing Contractor with three (3) business days notice, may perform such work and deduct the costs thereby incurred from any payment due to Contractor.

2. ROUTINE MAINTENANCE

Contractor shall sustain a program of continuing, comprehensive maintenance, designed to eliminate or reduce the incidence of malfunctions, reduce complaints and extend the useful life of the equipment. The program shall include, but not be restricted to, the following:

2.1 MONTHLY ROUTINE MAINTENANCE

Contractor shall provide monthly routine maintenance for all signalized intersections and flashing beacons, including but not limited to, all associated equipment, safety lighting, cabinet components, pedestrian signals, battery back up systems and emergency vehicle optical detectors.

Monthly routine maintenance shall include those tasks listed in the "Monthly Routine Maintenance Checklist," incorporated herein. Contractor shall utilize the "Monthly Routine Maintenance Checklist" form supplied by County for each inspection of every signal. Contractor shall submit copies of the "Monthly Routine Maintenance Checklist" to County as a part of the Monthly Activity Report detailed in Section 5 herein.

Replacement of parts during monthly preventive maintenance shall be approved in advance by the Contract Administrator, or designee.

2.2 SEMI-ANNUAL ROUTINE MAINTENANCE

Contractor shall provide semi-annual routine maintenance for all signalized intersections and flashing beacons, including but not limited to, all associated equipment, safety lighting, signal heads, cabinet components, pedestrian signals, battery back up systems and emergency vehicle optical detectors.

Semi-annual routine maintenance shall be conducted during the month specified in advance by the Contract Administrator and shall include those tasks listed in the "Semi-Annual Routine Maintenance Checklist," incorporated herein. Contractor shall utilize the "Semi-Annual Routine Maintenance Checklist" form supplied by County for each inspection of every signal. Contractor shall submit copies of the "Semi-Annual Routine Maintenance Checklist" to County as a part of the Monthly Activity Report detailed in Section 5 herein.

Semi-annual routine maintenance shall include an "after dark" visual inspection of all lighting associated with signalized intersections covered by this Agreement. Immediately following each inspection, Contractor shall submit to the Contract Administrator a report itemizing any deficiencies, with recommendations and an estimate for any repairs deemed necessary.

Replacement of parts during semi-annual preventive maintenance shall be approved in advance by the Contract Administrator, or designee.

2.3 ANNUAL MAINTENANCE – CONFLICT MONITORING UNIT (CMU) AND MALFUNCTIONING MONITORING UNITS (MMU) TESTING AND CERTIFICATION

Contractor shall provide annual testing and certification of the CMU and MMU card units at each signal location in the field. Testing may be performed at the same time the routine monthly maintenance or semi-annual maintenance is performed, and shall be completed within ten (10) calendar days of commencing. Contractor shall notify County forty-eight (48) hours prior to testing the CMU and/or MMU. Passing test reports shall be printed in duplicate. One passing report shall be attached to the CMU or MMU card handle, as applicable, inside the signal controller cabinet. One passing test report for each CMU and MMU shall be provided to County. Contractor shall notify County of CMU and/or MMU test failure, and document the test failure on the annual checklist for the specific signal location where it occurs.

Replacement of CMU and/or MMU cards, units or parts may not occur without advance approval by the Contract Administrator, or designee.

Contractor shall utilize the “Annual CMU and MMU Test Report Checklist” form supplied by County to document testing each CMU and MMU unit. Contractor shall submit a copy of the “Annual CMU and MMU Test Report Checklist” to County as a part of the Monthly Activity Report detailed in Section 5 herein.

2.4 ON-CALL ROUTINE MAINTENANCE OF TRAFFIC SIGNAL CONTROL EQUIPMENT

At the direction or with the approval of the Contract Administrator, Contractor shall repair, replace or otherwise render in good working order any and all defective parts of the traffic signal control equipment. Whenever it is necessary for Contractor to replace any defective parts on either a temporary or permanent basis, Contractor shall only use replacement parts of the same make and model as the parts being replaced. Further, Contractor shall use only “new” parts for permanent replacements. Exceptions to this policy may occur on an individual basis when agreed upon in writing by the Contract Administrator.

No permanent change of control mechanisms shall be done without prior written approval of the Contract Administrator. Further, any such change shall also be indicated on the Monthly Routine Maintenance Checklist.

All traffic signal controller equipment shall be maintained in accordance with the manufacturer’s recommendations.

2.5 NOTIFICATION OF SIGNAL TURN-ONS OR TURN-OFFS FOR ROUTINE MAINTENANCE

Contractor agrees to notify, in advance, the Contract Administrator of any planned or scheduled traffic signal turn-offs or turn-ons necessitated by Contractor’s routine maintenance activities. Contractor shall not make said turn-offs or turn-ons without the prior written approval of the Contract Administrator. A County representative shall be present at all turn-offs or turn-ons unless otherwise indicated in writing by the Contract Administrator.

2.6 ROUTINE MAINTENANCE FOR NEW INSTALLATIONS OR DELETIONS

Contractor shall provide routine maintenance for any new signalized intersections and flashing beacons, including all signal equipment, signal lighting, cabinet components, pedestrian signals, battery back up systems and emergency vehicle optical detectors which are installed for County in the future. These devices will be deemed to be added to Exhibit B, marked "Current List of County Maintained Traffic Signals," when County notifies Contractor of the installation thereof. These added devices shall be maintained in the same manner and for the same flat rate fee as those devices currently covered by this Agreement. In the event of the installation of any equipment of a type not already covered, or new signals which are installed and are of a more complicated type than those utilizing a Caltrans Model 170, Model 2070, or NEMA controller, the new equipment may be added to this Agreement at a negotiated rate, by Addendum, mutually satisfactory to Contractor and to the Contract Administrator. In the event notification for any new device is made on other than the first day of the month, payment for that month shall be prorated from the first day Contractor is notified to begin maintenance. Should responsibility for maintenance of any current or future device cease to be the County's, the Contract Administrator will notify Contractor in writing of the last date to perform maintenance. Monthly flat rate charges for any such affected device will be prorated on the basis of the number of days said devices are maintained by Contractor.

2.7 ROUTINE MAINTENANCE FOR EQUIPMENT UNDER WARRANTY

During the period of warranty of items covered by this Agreement, Contractor shall provide a routine monthly maintenance inspection only, contacting the Contract Administrator immediately to report any identified deficiencies. All work and materials at signals under warranty shall be provided by warranty provider unless otherwise directed by the Contract Administrator.

3. EMERGENCY SERVICE

Contractor shall maintain a single local or toll-free telephone number during the entire term of this Agreement where it can be reached twenty-four (24) hours per day, 365 days per year.

"Black" signals, signal equipment knockdowns, a signal displaying a conflict, or a signal with two (2) or more indications out shall be considered an "emergency." Contractor shall respond and arrive at the emergency site within two (2) hours of notification by County.

All other calls shall be handled on a non-emergency basis. Non-emergency calls shall be responded to during regular working hours and within twenty-four (24) hours of notification by County.

In the event of a knock down, Contractor shall provide temporary emergency replacement equipment of a type acceptable to County until permanent repair can be accomplished at no additional cost to County.

Necessary replacement of equipment will not require prior approval from County before such replacements are commenced in conjunction with an emergency call.

To distinguish between a regular maintenance call and an emergency call, the calling party shall state that the call is for "Emergency Service" and indicate the date and time of the call.

3.1 MONITORING EMERGENCY CALLS

Contractor shall not dispatch any repair staff without receiving prior approval from a Department of Transportation staff member occupying one of the positions listed below:

Deputy Director
Maintenance and Operations Division

Highway Superintendent
Maintenance and Operations Division, West Slope Roads Unit

Traffic Control Maintenance Worker IV
Maintenance and Operations Division, Traffic Unit

Traffic Control Maintenance Supervisor,
Maintenance and Operations Division, Traffic Unit

Traffic Superintendent,
Maintenance and Operations Division, Traffic Unit

A written notice providing the specific contact information and current incumbents of the listed positions will be provided to the Contractor upon execution of this Agreement and at any time a change in the information occurs.

Contractor shall provide written notice to the Contract Administrator, detailing actions taken to effect emergency repairs, within seven (7) calendar days of completion.

3.2 LIQUIDATED DAMAGES

It is understood and agreed that failure on the part of Contractor to respond, within two (2) hours under normal conditions to emergency calls as provided in Section 3, "EMERGENCY SERVICE" above, will cause County to suffer an unascertainable amount of damage. In lieu of such unascertainable damage, Contractor agrees to pay to County, not as a penalty but as liquidated damages, the amount of \$50.00/hour. The time for such liquidated damages shall commence from the first hour after the required response time for emergency work as indicated above and in Section 3, "EMERGENCY SERVICE." Charges to Contractor under this section shall be deducted from any payment due or to become due to Contractor.

3.3 SIGNAL MAINTENANCE CALL OUTS

County will always provide initial response to all emergency call outs and reserves the right to utilize County staff to effect repairs whenever County deems it more feasible and in the public's best interest. Any major work that cannot reasonably be described as "routine monthly maintenance" shall be dealt with as described under Section 4, "MAJOR SIGNAL WORK." (For replacement of defective traffic signal parts or control equipment, see Section 2.2.)

3.4 CHARGES FOR REPLACEMENT PARTS OR MATERIALS

Section 9 of the State of California, Department of Transportation, *Standard Specifications dated May, 2006*, shall apply for calculation of cost to County for all replacement parts and materials. In accordance with the provisions of Section 9, markup for parts and materials shall not exceed fifteen percent (15%).

County reserves the right to furnish any materials it deems advisable, and Contractor shall have no claims for costs and markup on those materials. Only materials furnished by Contractor and necessarily used in the performance of the work will be paid for. Proof of cost in the form of invoices from suppliers may be required by County before payment for replacement parts or materials is rendered.

4. MAJOR SIGNAL WORK

County shall retain the discretionary right to perform all major signal work such as signal upgrades, modifications and/or installations through the use of County forces, by negotiated agreement, or to advertise such work for competitive bid. Contractor has the right to participate in any competitive selection process involving any major signal work.

5. MONTHLY ACTIVITY REPORT

Every invoice submitted by Contractor shall be accompanied by an associated Monthly Activity Report. The Monthly Activity Report shall include the Monthly Routine Maintenance Checklist, Semi-Annual Routine Maintenance Checklist or the Annual Conflict Monitoring Unit (CMU) and Malfunctioning Monitoring Unit (MMU) Testing Report Checklist, as applicable. The payment of invoices that are not supported by the Monthly Activity Report shall be delayed until the Report is received. All Monthly Activity Reports must be submitted on the appropriate County provided and approved forms. All Monthly Activity Reports must be filled out completely and signed. Any deficiencies identified during the routine maintenance inspection must be indicated.

NOTE: ALL TIME KEEPING MUST BE ACCURATE, BOTH ON THE CABINET LOGS AND ON THE ACTIVITY REPORTS.

6. MEETINGS

Contractor's journeyman electrician shall be available to meet, when deemed necessary, with the Contract Administrator or his designee at a mutually agreed upon time and place to review maintenance activities. Should any issues remain unresolved, Contractor's foreman electrician shall be similarly available to meet with the Contract Administrator or his designee. There shall be no charge to County for meetings to resolve conflicts or issues related to Contractor's performance under this Agreement.



MONTHLY ROUTINE MAINTENANCE CHECKLIST



Intersection:		
Date:	Start Time:	Time:
Equipment	Status	Remarks
Controller Cabinet		
Visually inspect cabinet and electrical svc. for damage		
Check lock operation on door, service pedestal, police panel		
Check door function and gasket condition		
Clear any obstructions from around door		
Check ventilation fan and thermostat operation		
Check cabinet light and switch operation		
Check air filter condition (change if necessary)		
Check cabinet light and switch		
Visually check all cabinet components for proper operation		
Controller		
Visually inspect controller for proper operation		
Verify all controller LEDs are working		
Verify controller display is working		
Verify timing and coordination are correct		
Verify phases on recall		
Emergency Vehicle Optical Detectors		
Verify proper operation		
Pedestrian Signals/Pedestrian Heads		
Verify proper operation of pedestrian heads by activating push buttons		
Visually inspect noting condition and proper operation		
Ensure pedestrian signal heads properly aimed		
Inspect lens condition		
Verify push button condition and operation		
Vehicular Signals/Signal Heads		
Visually inspect noting condition and proper operation		
Verify proper operation of vehicular signal heads		
Inspect signal lens condition		
Inspect lamps		
Ensure Programmed visibility heads functioning and aimed correctly		

MONTHLY ROUTINE MAINTENANCE CHECKLIST (Page 2)

Equipment	Status	Remarks
Mast Arm, Mounted Signs		
Visually inspect mast arm mounted signs noting condition		
Battery Backup System		
Visually inspect system		
Verify system is online		
Verify system functions as designed when power removed		
Verify batteries are charged		
Record the number of failures/duration - reset		
Detectors and Loops		
Verify all loops working		
Verify detector functions properly		

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION



SEMI-ANNUAL ROUTINE MAINTENANCE CHECKLIST



Intersection:		
Date:	Start Time:	End Time:
Equipment	Status	Remarks
Controller Cabinet		
Verify all appropriate documentation is in cabinet		
Clean and vacuum controller cabinet and contents		
Replace cabinet air filter		
Visually check for signs of water accumulation or damage		
Lubricate all hinges and door locks on controller cabinet and service pedestal		
Check and record voltage levels at PDA and service input to cabinet		
Safety and Associated Signal Lighting		
Conduct an "after dark" inspection of traffic signals, pedestrian signals, luminaires and lighted street name signs		
Controller		
Check for proper time setting of controller		
Emergency Vehicle Optical Detectors		
Inspect and clean lenses		
Ensure devices are properly aligned		
Pedestrian Signals/Pedestrian Heads		
Inspect heads for defects and deficiencies		
Clean faces on all LED modules		
Ensure heads are secure and properly aligned		
Vehicular Signals/Signal Heads		
Clean all signal heads and LED lenses		
Ensure all signal heads are secure and properly aligned		
Inspect heads for defects and deficiencies		
Clean all visors		
Mast Arm, Mounted Signs		
Inspect and adjust and/or tighten mast arm sign hardware as needed (check vertical clearance)		

SEMI-ANNUAL ROUTINE MAINTENANCE CHECKLIST (Page 2)

Equipment	Status	Remarks
Battery Backup System		
Check battery voltage and available current output, make recommendations for battery replacement when necessary		
Test charging system		
Clean system		
Check all connections and clean terminals		
Road/Loops		
Visually inspect roadway condition around loop detectors for exposed wires, cracks and potholes		
Check detector amplifiers and tune if necessary		
Check ground road clamp and wire		
Check operation of ground fault receptacle		
Check hand hole covers to assure they are in place		
Locate, clear and clean all pull boxes		
Visually inspect integrity of splices		

Start Date: _____	Signal Technician: _____			
Completion Date: _____				
	Status	Test	Test	Remarks:
Signal Location:	Pass/ Fail	Date:	Time:	

Additional Remarks:

End of Annual CMU and MMU Testing Report for period ending _____ (Date).

Siemens Industry, Inc.

Amended Exhibit C

Amended Cost Proposal: Table of Equipment and Labor Rates

Item	Rates
Routine Monthly Maintenance Fee	<u>\$128.00</u> per signalized intersection
Routine Monthly Maintenance Flasher Rate	<u>\$70.00</u> per flashing beacon
Journeyman Electrician - Traffic Signal Maintenance and Repair (rate for Emergency Service, Major Signal Work) Hourly Straight Time ¹ Hourly Overtime	<u>\$86.00</u> per hr. <u>\$120.00</u> per hr.
Foreman Electrician - Traffic Signal Maintenance and Repair and Supervision (rate for Emergency Service, Major Signal Work when supervision required) Hourly Straight Time ¹ Hourly Overtime	<u>\$94.00</u> per hr. <u>\$130.00</u> per hr.
Laborer - Excavation, Jackhammer and General Laborer Work Hourly Straight Time ¹ Hourly Overtime	<u>\$65.00</u> per hr. <u>\$95.00</u> per hr.
1 – Ton Bucket Truck Hourly Rate Maximum Daily Rate ²	<u>\$29.00</u> per hr. <u>\$200.00</u> per day
8 – Ton Mobile Crane Hourly Rate Maximum Daily Rate ²	<u>\$75.00</u> per hr. <u>\$600.00</u> per day
2 – Ton Bucket Truck Hourly Rate Maximum Daily Rate ²	<u>\$38.00</u> per hr. <u>\$280.00</u> per day
1 – Ton Dump Truck Hourly Rate Maximum Daily Rate ²	<u>\$25.00</u> per hr. <u>\$200.00</u> per day
Flatbed Truck Hourly Rate Maximum Daily Rate ²	<u>\$25.00</u> per hr. <u>\$200.00</u> per day
Crack Sealer Machine	<u>\$175.00</u> minimum plus <u>\$.95</u> per foot
Testing and Certification of full 332 Cabinet and Controller	<u>\$1,200.00</u> each
Installation of Inductive Loops 1 to 2 3 to 4 5 to 8 9+	<u>\$1,000.00</u> each <u>\$820.00</u> each <u>\$680.00</u> each <u>\$540.00</u> each

Replacement of LED Lamps and Associated Parts Unit Prices (Fixed rate replacement cost for materials, including labor and equipment)	
Replace HPS Lamp	<u>\$75.00</u> per unit
Replace Photocell	<u>\$75.00</u> per unit
Replace HPS Starter	<u>\$125.00</u> per unit
Replace HPS Ballast	<u>\$260.00</u> per unit
Replace Complete Luminaire	<u>\$440.00</u> per unit
Replace LED Luminaire Lamp 90 LED's (210W)	<u>\$ 920.00</u> per unit
Replace LED Luminaire Lamp 120 LED's (272W)	<u>\$1,250.00</u> per unit
Annual field testing and certification of Conflict Monitor Units (CMU) and/or Malfunctioning Monitoring Units (MMU) at all signal cabinet locations.	<u>\$90.00</u> Per signalized intersection.

Additional rates upon request.

¹ Contractor's normal working hours are: Mondays through Fridays, 7:00 A.M. to 3:00 P.M.

² Full day's use for purposes of application of the daily rate is defined as eight (8) or more hours in one twenty-four (24) hour period.