



**COUNTY OF SAN MATEO**  
Inter-Departmental Correspondence  
Department of Public Works



**DATE:** August 12, 2010  
**BOARD MEETING DATE:** August 24, 2010  
**SPECIAL NOTICE/HEARING:** None  
**VOTE REQUIRED:** Majority

**TO:** Honorable Board of Supervisors  
**FROM:** James C. Porter, Director of Public Works  
**SUBJECT:** San Mateo County Smart Corridors Project No. 4

**RECOMMENDATION:**

Adopt a Resolution authorizing the President of the Board of Supervisors to execute an agreement with the City/County Association of Governments, in the amount of \$650,000, for Construction Management and Inspection Services for the San Mateo County Smart Corridors Project No. 4.

**BACKGROUND:**

The Smart Corridors Project goal is to provide the Department of Transportation (Caltrans) with the ability to manage the Intelligent Traffic System (ITS) and the roadway network during major traffic incidents on Highway 101. Live traffic information from monitoring devices will be used by Caltrans to assist local agencies with directing traffic and provide detour updates to electronic traffic messaging boards for the traveling public. The entire project is complex and has been divided geographically into four distinct projects:

- Project No. 1: is a pilot project to implement an ITS within the city limits of the City of San Mateo. It will be designed and constructed by the City of San Mateo.
- Project No. 2: is an ITS implantation project located along El Camino Real (SR 82), which will be designed and constructed entirely by Caltrans.
- Project No. 3: is an ITS project located within state right of way SR 82 and Highway 101, which will be designed and constructed entirely by Caltrans.
- Project No. 4 (Project) is an ITS project along specific routes, in multiple jurisdictions, within the County of San Mateo. The project work is expected to take 6 months to complete.

**DISCUSSION:**

In connection with Project No. 4, C/CAG has retained the services of two consultants for the preparation of plans, specifications, and construction cost estimates. C/CAG has requested that the Department of Public Works (Department) provide construction project management services for the Project.

The Department recommends that your Board approve the agreement between the Department and C/CAG for construction project management services.

County Counsel has reviewed and approved the Resolution and Agreement as to form.

This action contributes to the Shared Vision 2025 of a Collaborative Community by implementing regional congestion relief measures and furthering the County's commitment to reduce greenhouse gas emissions.

**FISCAL IMPACT:**

The total estimated cost for Project No. 4 is \$6,500,000, which includes \$650,000 for the cost of construction management services provided by the Department. Project No. 4 will be financed with State Transportation Improvement Program and local funds that are administered by C/CAG. These funds have been awarded to C/CAG and are received on a reimbursable basis. Initially, C/CAG will provide \$2,000,000 in advance funding to begin construction and to manage cash flow requirements of the project. There is a potential that Road Funds may provide temporary funding for the project as payments are being requested of C/CAG. The Road Fund has sufficient funds available to provide temporary funding while these reimbursements are being requested.

The project is proposed to be financed as follows:

State Transportation Improvement Program	\$5,270,000
Local Funding (C/CAG, Measure A)	\$1,230,000
Total Estimated Cost	<u>\$6,500,000</u>

There is no impact to the General Fund.

**RESOLUTION NO. \_\_\_\_\_**

**BOARD OF SUPERVISORS, COUNTY OF SAN MATEO, STATE OF CALIFORNIA**

\* \* \* \* \*

**RESOLUTION  
AUTHORIZING THE PRESIDENT OF THE BOARD OF SUPERVISORS TO  
EXECUTE AN AGREEMENT WITH THE  
CITY/COUNTY ASSOCIATION OF GOVERNMENTS,  
IN THE AMOUNT OF \$650,000, FOR  
CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES  
FOR THE SAN MATEO COUNTY SMART CORRIDORS PROJECT NO. 4**

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**RESOLVED**, by the Board of Supervisors of the County of San Mateo, State of California, that

**WHEREAS**, C/CAG was awarded funding from the Traffic Light Synchronization Program (TLSP) and obtained additional funding from the 2008 State Transportation Improvement Program (STIP) and Measure A Sales Tax, along with local funds, to implement the San Mateo County Smart Corridors Project No. 4 (Project No. 4); and

**WHEREAS**, Project No. 4 consists, in general, of installing messaging boards and interlinking traffic signals on specific routes within various state and local city streets within the County of San Mateo (County). The traveling public will be notified, through the use of the electronic messaging boards, of detour routes during traffic incidents on Highway 101; and

**WHEREAS**, the installation of these Intelligent Transportation System (ITS) devices on various state and local city streets in multiple city jurisdictions will stream live information data to a control room located in the Department of Transportation's (Caltrans) office in Oakland, California, to assist local jurisdiction staff with directing

traffic through local streets during a major traffic incident on Highway 101; and

**WHEREAS**, C/CAG has programmed \$6,500,000, for the construction phase of the Project; and

**WHEREAS**, C/CAG has retained the services of two consultants for the preparation of the Plans, Specifications, and Estimates (PS&E); and

**WHEREAS**, C/CAG does not have staff with the expertise to perform construction management and inspection of the Project; and

**WHEREAS**, C/CAG requested that County of San Mateo (County) provide construction contract advertisement, award, and construction management and inspection services.

**NOW THEREFORE, IT IS HEREBY DETERMINED AND ORDERED** that the President of the Board of Supervisors be, and is hereby authorized and directed to execute an agreement between the County and C/CAG in the amount of \$650,000, for Construction Management and Construction Inspection Services for Project No. 4.

\* \* \* \* \*

**AGREEMENT BETWEEN  
THE CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO  
COUNTY (C/CAG) AND THE COUNTY OF SAN MATEO (COUNTY), FOR  
CONSTRUCTION CONTRACT ADVERTISEMENT, AWARD, AND  
ADMINISTRATION FOR THE SMART CORRIDORS NORTH AND SOUTH  
SEGMENTS PROJECT IN SAN MATEO COUNTY**

**THIS AGREEMENT** is entered into as of the \_\_\_\_\_ day of \_\_\_\_\_, **2010**, by and between the City/County Association of Governments (C/CAG) and the County of San Mateo, acting through its Department of Public Works, (COUNTY).

**W I T N E S S E T H:**

**WHEREAS**, C/CAG was awarded funding from the Traffic Light Synchronization Program (TLSP), which is part of the Proposition 1B State Infrastructure Bond, and obtained additional funding from the 2008 State Transportation Improvement Program (STIP), Measure A Sales Tax, and local funds to implement a San Mateo County Smart Corridors Project; and

**WHEREAS**, the San Mateo County Smart Corridors Project consists of several projects, one of which is the Smart Corridor North and South Segments project, defined as Project 4 in Exhibit A; and

**WHEREAS**, C/CAG has programmed \$6,500,000 dollars for the construction phase of the Smart Corridor North and South Segments project; and

**WHEREAS**, the Smart Corridor North and South Segments project (sometimes referred to as Project 4), referred to hereinafter as the “Smart Corridor Project”, is defined in the Plans, Specifications, and Estimates (PS&E) prepared by C/CAG and yet to be approved by the Director of the County of San Mateo Department Public Works, which PS&E generally describe the installation of Intelligent Transportation System devices on various state and local city streets in multiple city jurisdictions and are incorporated herein by this reference; and

**WHEREAS**, C/CAG will assist COUNTY in COUNTY’s efforts to secure all necessary construction encroachment permits for the Smart Corridor Project; and

**WHEREAS**, C/CAG has requested the assistance of COUNTY for the Smart Corridor Project, as C/CAG does not typically perform contract administration or construction inspection for road related projects; and

**WHEREAS**, the COUNTY is willing and able to provide construction contract advertisement, award, and administration services (Services) for the Smart Corridor Project; and

**WHEREAS**, C/CAG has agreed to fully compensate COUNTY for Services provided in the Smart Corridor Project; and

**WHEREAS**, the COUNTY has agreed to provide Services for the Smart Corridor

Project for \$650,000.

**NOW, THEREFORE, IT IS HEREBY AGREED** by the parties hereto, as follows:

1. SCOPE OF SERVICES

COUNTY agrees to advertise, award, and administer the construction contract for the Smart Corridor Project, as described in the PS&E. COUNTY further agrees to provide all deliverables as described in Exhibit B attached hereto. Upon completion of the construction contract, COUNTY will relinquish any ownership or interest it may have in any of the installed equipment, not to be owned by the COUNTY, by transferring all of its interests, if any, to the respective local jurisdiction according to the Ownership, Operation and Maintenance Agreements entered between C/CAG, COUNTY, and the individual Cities for the San Mateo County Smart Corridors.

2. TIME OF PERFORMANCE

The services funded by this Agreement shall commence after full execution of this Agreement AND after C/CAG notifies COUNTY of the project funding allocation approval by the California Transportation Commission. This Agreement shall terminate upon Smart Corridor Project completion or on December 31, 2015, whichever is earlier. Smart Corridor Project completion is defined in Exhibit B. COUNTY shall perform the construction phase services based on the schedule duration provided in the Project specifications, which are a part of the PS&E and the approved construction contract. Termination of this Agreement prior to Project completion or December 31, 2015, must be in writing and by mutual agreement of COUNTY and C/CAG.

3. FUNDING AND METHOD OF PAYMENT

- a. C/CAG agrees to fully compensate COUNTY on an equipment and time basis for services provided in the Smart Corridor Project in an amount not to exceed \$650,000, as shown in Exhibit C, attached hereto. Any additional unforeseen costs shall not be compensated without the prior written approval of the C/CAG Executive Director.
- b. C/CAG agrees to fully compensate COUNTY for the construction capital costs of the Smart Corridor Project that may be expended by the COUNTY, up to a maximum of \$5,700,000, including contingencies. COUNTY shall not be obligated to fund construction cost in excess of \$5,700,000. Payments to COUNTY will be on a reimbursable basis except for an initial deposit to COUNTY of \$2,000,000 from C/CAG at the time of construction contract award to assist COUNTY in cash-flow purposes for payments to the Contractor.
- c. COUNTY agrees to initially finance the work with the \$2,000,000 deposit from C/CAG and from its own funds and further agrees that it will submit the necessary documentation in order to receive reimbursement of costs from C/CAG.

- d. C/CAG agrees to provide all necessary design support and modifications during the advertising, award, and construction phases of the Smart Corridor Project.
- e. C/CAG agrees to reimburse the COUNTY for construction contract change orders, in accordance with item g of this Section.
- f. Any individual contract change orders exceeding a total of \$50,000 shall require written approval from the C/CAG Executive Director or his delegate before change order work can proceed. Contract change orders in an amount less than \$50,000 will not require prior written approval from the C/CAG Executive Director and may be authorized by the COUNTY acting alone. When the sum total of contract change orders exceeds \$500,000, then any and all subsequent change orders, regardless of pricing, shall require the prior approval of the C/CAG Executive Director before change order work can proceed.
- g. COUNTY shall submit monthly billings, accompanied by the activity reports and invoices issued by Contractor or progress payments issued by COUNTY as proof that services were rendered and paid for by the COUNTY. Upon receipt of the invoice and approval of its accompanying documentation, C/CAG shall pay the amount invoiced under this Agreement within ninety (90) days of receipt of the invoice, delivered or mailed to the COUNTY as follows:

County of San Mateo  
Director of Public Works  
555 County Center, 5<sup>th</sup> Floor  
Redwood City, CA 94063-1665

- h. COUNTY shall advertise, solicit bids, and award the construction contract as set forth in the Scope of Work described in Exhibit B hereto, and subject to all applicable laws and to the following:
  - 1) The bidders shall be informed that their bids must remain open and subject to acceptance by the COUNTY for a period of at least 60 days.
  - 2) A representative of C/CAG shall attend the bid opening.
  - 3) Should the lowest responsible bid be equal to or less than 110% of the Engineer's Estimates as approved by the California Transportation Commission (the "Engineer's Estimate"), then the COUNTY shall be, and is hereby, authorized to award the contract to said lowest responsible bidder without further action or approval by C/CAG. Provided, however, should, before the COUNTY accepts a bid, C/CAG for any reason timely instruct the COUNTY in writing to reject all bids, COUNTY shall abide by said instructions and reject all bids.
  - 4) Should the lowest responsible bid be more than 110% of the Engineer's Estimates (an "Excess Bid"), then the COUNTY shall, 60 days after the bid opening, reject all bids, including the Excess Bid unless notified in writing by C/CAG prior to said date that C/CAG wishes COUNTY to accept said bid and that C/CAG will fully compensate the COUNTY for the construction capital costs

up to an amount that is no less than 110% of said Excess Bid. Said writing from C/CAG, or an amendment to this Agreement duly executed by both parties, shall commit and bind C/CAG to provide the additional funding required to complete the Project at said Excess Bid price and authorize the COUNTY to accept said Excess Bid.

- 5) Should all bids be rejected, for any reason, then within 30 days thereof, C/CAG shall instruct the COUNTY to either i) re-advertise and re-bid the construction contract pursuant to this Agreement, or as this Agreement might be amended by the mutual agreement of the parties; or ii) abandon this Agreement and terminate its efforts hereunder, with COUNTY being compensated by C/CAG for all services provided through termination in accordance with the rates set forth in Exhibit C.
  - i. If the total project expenditures at project completion are less than the total C/CAG payments including the \$2,000,000 initial deposit and all subsequent reimbursements, then the excess funds shall be returned to C/CAG within ninety (90) days from the last reimbursement payment.
  - j. COUNTY shall notify C/CAG of any contractor claim or construction contract change order disputes (“Contract Claims”) that arise in connection with the construction contract and C/CAG shall cooperate with the COUNTY in its efforts to resolve such Contract Claims. As the COUNTY is effectively serving as C/CAG’s contract administrator and manager, C/CAG shall indemnify and defend the COUNTY in connection with any and all Contract Claims, except to the extent that a Contract Claim arises out of the negligence or willful misconduct of the COUNTY

#### 4. AMENDMENTS

Any changes in the services to be performed under this Agreement shall be incorporated in written amendments, which shall specify the changes in work performed and any adjustments in compensation and schedule. All amendments shall be executed by C/CAG and the COUNTY. No claim for additional compensation or extension of time as described in Section 2 and Section 3a of this Agreement shall be recognized unless contained in a duly executed amendment.

#### 5. NOTICES

All notices or other communications to either party by the other shall be deemed acceptable given when made in writing and delivered or mailed to such party at their respective addresses as follows:



To C/CAG:                   Attention: Richard Napier, Executive Director  
City/County Association of Governments  
555 County Center, 5<sup>th</sup> Floor  
Redwood City, CA 94063

To COUNTY:                Attention: James C. Porter, Director of Public Works  
County of San Mateo Department of Public Works  
555 County Center, 5<sup>th</sup> Floor  
Redwood City, CA 94063

6.     INDEPENDENT CONTRACTOR

COUNTY and its employees, agents and consultants shall be deemed independent contractors of C/CAG. Nothing herein shall be deemed to create any joint venture or partnership arrangement between COUNTY and C/CAG.

7.     MUTUAL HOLD HARMLESS

- a.     It is agreed that C/CAG shall defend, save harmless and indemnify COUNTY, its officers and employees from any and all claims which arise out of the terms and conditions of this Agreement and which result from the negligent acts or omissions of C/CAG, its officers and/or employees.
- b.     It is agreed that COUNTY shall defend, save harmless, and indemnify C/CAG, its officers and employees from any and all claims for injuries or damage to persons and/or property which arise out of the terms and conditions of this Agreement and which result from the negligent acts or omissions of COUNTY, its officers and/or employees.
- c.     In the event of concurrent negligence of COUNTY, its officers and/or employees, and C/CAG, its officers and/or employees, then the liability for any and all claims for injuries or damage to persons and/or property, which arise out of terms and conditions of this Agreement, shall be apportioned according to the California theory of comparative negligence.

**IN WITNESS WHEREOF**, this funding Agreement between the City/County Association of Governments (C/CAG) and the County of San Mateo Department of Public Works for construction contract advertisement, award, and administration of the Smart Corridor Project has been executed by the parties hereto as of the day and year first written above.

CITY/COUNTY ASSOCIATION OF  
GOVERNMENTS

COUNTY OF SAN MATEO

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Thomas M. Kasten, C/CAG Chair

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Richard S. Gordon, President of the San Mateo  
County Board of Supervisors

ATTEST:

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David S. Boesch, County Manager/  
Clerk of the Board of Supervisors

Approved as to form:

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C/CAG Legal Counsel

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County Legal Counsel

## **EXHIBIT A**

Information contained in Exhibit A is for illustrative purposes only. Detail description of the Smart Corridor North and South Segments Project is as described in the Plans, Specifications, and Estimates prepared by C/CAG and approved by County.

### **BACKGROUND**

The City/County Association of Governments (C/CAG) and the San Mateo County Transportation Authority have initiated an effort to develop an Alternate Routes Plan for the San Mateo County Highway US 101-corridor system. The Alternate Routes Project focused on predefining emergency alternate routes to be used in an event of a major traffic incident along Highway US 101 that causes traffic to be diverted off the freeway and onto the local street network, which includes primarily El Camino Real. The alternate routes provide diverted freeway traffic a clear path around major freeway incidents thereby minimizing the impact to residents and businesses of local jurisdictions caused by major traffic incidents.

From the Alternative Routes Plan, an Intelligent Traffic Systems (ITS) infrastructure improvement project was developed called the “Smart Corridors Project”. This Project will provide specific ITS infrastructure elements for the identification of traffic conditions and the direction and management of resultant traffic congestion on local streets during an incident on Highway US 101. The elements include the following:

Traffic Signal Upgrades and Interconnection – These devices will allow modification of signal timing along specific roadways, from the Caltrans Traffic Management Center (TMC) or a central command hub in the City of San Mateo, during an incident.

Fixed and Pan-Tilt-Zoom (PTZ) and/ or Closed Circuit Television (CCTV) Cameras – These devices provide a visual tool for monitoring traffic flow and conditions along the alternative route.

Trailblazer Signs (TBS) – These devices provide route guidance for drivers along the alternative route. They also direct local street traffic away from entering the impacted freeway section.

Arterial System Detection – These devices may be part of an enhanced system to collect traffic speed and flow data along the alternative route.

Communication Network – Communications between field elements and central coordination facilities provide the backbone for transmitting and disseminating data and video.

### **PROJECT DESCRIPTION**

The overall Smart Corridors Project objective is to provide local agencies remote access to ITS elements while providing the capability for Caltrans District 4 TMC in Oakland to manage the ITS elements and the roadway network during major incidents. The software system(s) that manages the devices installed for the Smart Corridors Project has not been selected at this point.

## EXHIBIT A

The design plans and specifications for the entire project are divided geographically into four distinct projects. The construction will also be broken into four subprojects, which must fit together seamlessly.

- Project 1 is a demonstration project, to be designed and constructed by the City of San Mateo. It is located near the Highway 92 and Highway US 101 interchange, along the Delaware and Saratoga Streets corridor.
- Project 2 is a signal interconnect project located along El Camino Real (SR 82). Project 2 is an internal Caltrans project, which will be designed and constructed entirely by Caltrans.
- Project 3 consists of portions of the Smart Corridor, located within state right of way (SR 82 and US 101). Project 3 will be designed and constructed entirely by Caltrans.
- Project 4, referred to as “Smart Corridor Project” in the Agreement, consists of the portion of the Smart Corridor mostly on local streets that is not within state right of way. Project 4 will consist of two separate plan and specification packages that are divided geographically. One package will cover the northern half of the project and one package will cover the southern half of the project.

Project 4 local streets are located within the cities of San Bruno, Millbrae, Burlingame, San Mateo, Belmont, San Carlos and Redwood City and within State right-of-way at El Camino Real (SR 82). They are divided into the following two segments:

- North Segment is from San Bruno Avenue to Poplar Avenue including, San Bruno Avenue, Millbrae Avenue, Broadway Ave, Peninsula Avenue, Poplar Avenue, Old Bayshore Road, Airport Boulevard, Rollins Road and California Avenue.
- South Segment is from Poplar Avenue to Whipple Avenue including, 3<sup>rd</sup> Avenue, 4<sup>th</sup> Avenue, Ralston Avenue, Harbor Boulevard, Holly Street, Brittan Avenue, Whipple Avenue, Delaware Street and Industrial Road.

Plans are expected to include the following details:

- Installation of communications network for traffic signals, trailblazers, detectors, and CCTV cameras.
- Installation of trailblazer and other route signage.
- Installation of both fixed and PTZ CCTV cameras.
- Installation of system detectors.

## EXHIBIT B

### SCOPE OF WORK

In consideration of the payments set forth in Section 3, of the Agreement, the following tasks and deliverables are included as part of this contract.

1. Inspection Procurement
  - a. The County will advertise and procure specialty inspection services, if deemed necessary, in accordance with all applicable regulations.
  - b. The County will respond to questions concerning the required services, if needed.

*Deliverables:*

- Description of inspection consultant and contractor roles and responsibilities, if needed.
- Prepare inspection contracts, if needed.
- Award inspection contracts, if needed.
- Administer inspection contracts, if needed.
- Prepare inspection contract amendments, if needed

2. Contract Advertise, Bid, and Award
  - a. The County will advertise the project in accordance with all applicable regulations.
  - b. The County and C/CAG design consultants will respond to questions concerning the plans, specifications, and estimates prior to bid opening and prepare contract addenda, if needed.
  - c. The County will review construction bids received and confer with C/CAG if the minimum bid exceeds the engineer's estimate by 10%. Award will be approved by the County Board of Supervisors under normal County procedures and the C/CAG board shall be notified.
  - d. Board of Supervisor approval of award of the contract to the lowest responsible bidder.

*Deliverables:*

- Prepare contract addenda, if needed.
- Prepare answers to bidder's questions during bid phase.
- Prepare recommendation for the award of the construction contract to C/CAG Executive Director based on bid outcome per section 3i of this agreement.
- Prepare required County Board Reports and Resolutions for the Board of Supervisors to consider and approve adoption of plans and specifications and award of a contract to the lowest responsible bidder.

3. Equipment Installation (if needed) for Project 4
  - a. The Contractor shall purchase and install project equipment (CCTV cameras, detectors, signal controllers), conforming to project specifications.
  - b. The County, with assistance from the inspector or design consultant, will receive all purchase documentation, copies of warranty information, maintenance and software licensing upon deployment. These documents will be delivered to C/CAG upon completion of the project.

## EXHIBIT B

- c. The County will coordinate any necessary factory and/or field-testing to ensure equipment is operational prior to delivery and field installation.

### *Deliverables:*

- Equipment deliverables to file along with warranty and software licensing information.
- Draft and final test plan for factory and field testing, material certifications and testing results.

## 4. Construction

- a. The County will hold a pre-construction conference with contractor(s).
- b. The County, procured and/ or in-house inspector, or design consultant will promptly interpret the intent of the Contract Documents in an unbiased manner, as to minimize construction delay.
- c. The County will provide construction surveys, if necessary.
- d. The County will ensure coordination between the Smart Corridors Project construction contracts (e.g. Project 2 and Project 3) and Project 4 where coordination is required for successful completion of Project 4.
- e. Utility locations on plans are only approximate and will require verification prior to construction. County will ensure that contractor verifies applicable utility locations prior to construction.
- f. The County shall ensure that traffic control measures are implemented as necessary to ensure that traffic is carried through the work area in an effective manner and that motorists, pedestrians, bicyclists, and workers are protected from hazards and accidents.
- g. The County shall ensure that County “Best Management Practices (BMP)” and/ or permit requirements, as accompanied by the Project’s environmental clearance documents, are adhered to during construction.
- h. County shall ensure that property owners that may be affected by the proposed construction activities are notified of the scope and duration of the construction activities.
- i. The County shall ensure that Contractors perform regular safety briefings and that Contractors adhere to site and job specific OSHA safety requirements.
- j. The County shall ensure that work is completed in a thorough, workmanlike manner and call to the C/CAG Executive Director’s or his designee’s attention apparent errors or omissions and request instruction before proceeding with the work.
- k. The County will respond to Requests for Information and negotiate contract change orders if necessary.
- l. The County will conduct a final walk through of the constructed Project and prepare a "punch list" of work necessary to complete Project.
- m. The County shall maintain a Project file, which includes, but is not limited to, punch list items, close out documentation, Operation and Maintenance manuals, and warranties.
- n. The County shall provide and maintain accurate field data on a red-lined set of contract Plans, which are to be kept current and submitted as complete at the conclusion of the construction. These record Plans will be used as documentation for progress payments, and upon Project completion, for the preparation of “as-built” Plans.

## EXHIBIT B

### *Deliverables:*

- Responses to Requests for Information from Contractor.
- Modifications or revisions that are related to the Project's original scope and character.
- Contract change orders if necessary.
- Records of progress payments and final payments
- Project file documents as listed under Section "1" above.
- Final red-lined "as-built" plans.
- Inspection reports (daily journals and weekly reports).

### 5. System Testing

- a. The County shall coordinate with Caltrans and work with the installation contractor to test all system components and make modifications or repairs as required to ensure each system component is fully functional.

### *Deliverables*

- Fully functional system of cameras, signs and interconnected traffic signals.

### 6. Project Completion Definition

Smart Corridors Project completion is considered complete upon C/CAG acceptance of deliverables cited above, and C/CAG acceptance of installed operable ITS equipment as shown on the contract plans, and resolution of any Contractor claims. Upon the completion of this project, C/CAG or Caltrans should have the ability to observe CCTV inputs, operate and modify trailblazer sign messages, and monitor and control traffic signal operations. Prior to final acceptance, the County and/or Contractor will demonstrate to the City/County Association of Governments of San Mateo County (C/CAG) and Caltrans that the features listed above can be performed.

**EXHIBIT C**

**SMCo Smart Corridors Project. Construction management Estimated Charges.**

**July 14, 2010**

Month	Working Days	Hours	Employee/Section	Current Rates	Expected Hrs	Charges
Nov-10	20	160	Ann S.	\$153.26	125.00	\$19,157.50
Dec-10	23	184	Karen P.	\$168.42	225.00	\$37,894.50
Jan-11	20	160	Design (Advertise/Award)	\$154.67	75.00	\$11,600.25
Feb-11	19	152	Zack A.	\$154.67	900.00	\$139,203.00
Mar-11	22	176	Matt H.	\$123.88	975.00	\$120,783.00
Apr-11	21	168	Emmett J.	\$113.13	975.00	\$110,301.75
	<b>Total Hrs:</b>	<b>1000</b>	Keith N.	\$139.75	100.00	\$13,975.00
			Armando C.	\$113.13	80.00	\$9,050.40
			Liliya S.	\$113.13	200.00	\$22,626.00
			Admin Staff	\$56.26	100.00	\$5,626.00
			Accounting	\$52.75	100.00	\$5,275.00
			Drafting (Plans Repro, As-Builts)	\$114.85	80.00	\$9,188.00
			County Specialty Inspection		Lump Sum	\$80,000.00
			Consultant Specialty Inspection		Lump Sum	\$65,000.00

**Estimated Construction Management Charges: \$649,680.40**

**Not to Exceed Construction Management Charges: \$650,000.00**

Note: Public Works' Department vehicles and equipment used on the Project during the Construction phase will be charged to the Project at cost.