

Council Meeting of
August 18, 2009

Honorable Mayor and Members
of the City Council
City Hall
Torrance, California

Members of the Council:

SUBJECT: Award of Consulting Services Agreement for traffic engineering consulting services. Expenditure: \$75,000

RECOMMENDATION

Recommendation of the Public Works Director that City Council award a Consulting Services Agreement in the amount of \$75,000 to AAE Incorporated of Brea, California to perform traffic engineering consulting services.

Funding

Funding for the Agreement is available from the Public Works Department-Engineering Division's General fund via an encumbrance memo for \$75,000 approved in June 2009.

BACKGROUND

Since November 2008, there has been a vacancy of one position for Associate Engineer (Traffic) in the Public Works Department's Engineering Division. The position is responsible for performing various duties related to traffic engineering and some administration of Capital Projects. Common duties include: analyze traffic signal timing; program traffic signal synchronization and coordination; prepare and review traffic signal and signing/stripping plans; investigate citizen requests related to traffic signals, signs, striping, pavement markings, and curb painting; attend interagency meetings and seminars; represent the Public Works Department at Traffic Commission meetings, when required; and administer assigned capital projects.

The duties of the Associate Engineer (Traffic) are essential to the Engineering Division. Accordingly, most duties have been temporarily performed by an Engineering Manager and some by other Engineering staff, in addition to their existing work assignments. Furthermore, some traffic engineering duties and tasks remain on hold due to other higher priorities

Although it is the intent of the Public Works Department to eventually recruit for and fill the position of Associate Engineer (Traffic), it is anticipated the position will remain vacant for at least 6 more months. This is due to uncertainties in the Operating budget and the recruitment schedule. Accordingly, the Engineering Division is

concerned with the ability to timely complete ongoing projects and to address other high priority issues, such as citywide traffic signal timing and coordination. Therefore, the Engineering Division proposes to obtain traffic engineering consulting services.

ANALYSIS

Earlier this year, staff issued a Request for Qualifications and interviewed three traffic engineering firms. The three firms were AAE Incorporated, KOA Corporation and Albert Grover and Associates. All firms are qualified to perform the work; however, AAE Incorporated proposed the lowest hourly rates for the required staff and tasks.

AAE Incorporated has successfully performed traffic engineering consulting services for Torrance and other local public agencies. AAE Incorporated proposes to perform traffic engineering consulting services for a not-to-exceed amount of \$75,000. The proposed Consulting Services Agreement will provide for the needed traffic engineering consulting services to prevent a backlog of work and an ability to investigate concerns related to traffic circulation and coordination of traffic signals.

Respectfully submitted,

ROBERT J. BESTE
Public Works Director



By Craig Bilezerian
Engineering Manager

CONCUR:



Robert J. Beste
Public Works Director



LeRoy J. Jackson
City Manager

Attachment: A. Encumbrance Memo
B. Consulting Services Agreement – AAE Incorporated

CITY OF TORRANCE

INTEROFFICE COMMUNICATION

DATE: June 30, 2009

TO: Eric Tsao, Finance Director
FROM: Robert J. Beste, Public Works Director
SUBJECT: ENCUMBRANCE MEMO – TRAFFIC ENGINEERING SERVICES

The Public Works Department is requesting that \$75,000 in salary savings, due to the vacant Associate Engineer-Traffic position, from the Engineering Division's General Fund (1001-8310-831001-3002) be encumbered in FY2008-09 and made available in FY2009-10 in account 1001-8310-831001-4700.

The position has been vacant since November 2008 (over 7 months). The Department has a need to continue the efforts of traffic engineering, including signal synchronization and coordination projects. The salary savings will be used to cover a consultant contract to assist with the effort.


ROBERT J. BESTE.
Public Works Director

Concur:


Mary Giordano
Assistant City Manager

CONSULTING SERVICES AGREEMENT

This CONSULTING SERVICES AGREEMENT (“Agreement”) is made and entered into as of _____ (the “Effective Date”), by and between the CITY OF TORRANCE, a municipal corporation (“CITY”), and AAE, Incorporated, a California corporation (“CONSULTANT”).

RECITALS:

- A. CITY wishes to retain the services of an experienced and qualified CONSULTANT to traffic engineering consulting services.
- B. CONSULTANT represents that it is qualified to perform those services.

AGREEMENT:

1. SERVICES TO BE PERFORMED BY CONSULTANT

CONSULTANT will provide the services listed in the Scope of Services attached as Exhibit A. CONSULTANT warrants that all work and services set forth in the Scope of Services will be performed in a competent, professional and satisfactory manner.

2. TERM

Unless earlier terminated in accordance with Paragraph 4 below, this Agreement will continue in full force and effect from the Effective Date through December 31, 2010.

3. COMPENSATION

- A. CONSULTANT’s Fee.

For services rendered pursuant to this Agreement, CONSULTANT will be paid in accordance with the Compensation Schedule attached as Exhibit B, provided, however, that in no event will the total amount of money paid the CONSULTANT, for services initially contemplated by this Agreement, exceed the sum of \$75,000.00 (“Agreement Sum”), unless otherwise first approved in writing by CITY.

- B. Schedule of Payment.

Provided that the CONSULTANT is not in default under the terms of this Agreement, upon presentation of an invoice, CONSULTANT will be paid monthly the fees described in Paragraph 3.A. above, according to the Compensation Schedule. Payment will be due within 30 days after the date of the monthly invoice.

4. TERMINATION OF AGREEMENT

- A. Termination by CITY for Convenience.

- 1. CITY may, at any time, terminate the Agreement for CITY’s convenience and without cause.

2. Upon receipt of written notice from CITY of such termination for CITY's convenience, CONSULTANT will:
 - a. cease operations as directed by CITY in the notice;
 - b. take actions necessary, or that CITY may direct, for the protection and preservation of the work; and
 - c. except for work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.
3. In case of such termination for CITY's convenience, CONSULTANT will be entitled to receive payment for work executed; and costs incurred by reason of such termination, along with reasonable overhead and profit on the work not executed.

B. Termination for Cause.

1. If either party fails to perform any term, covenant or condition in this Agreement and that failure continues for 15 calendar days after the nondefaulting party gives the defaulting party written notice of the failure to perform, this Agreement may be terminated for cause; provided, however, that if during the notice period the defaulting party has promptly commenced and continues diligent efforts to remedy the default, the defaulting party will have such additional time as is reasonably necessary to remedy the default.
2. In the event this Agreement is terminated for cause by the default of the CONSULTANT, the CITY may, at the expense of the CONSULTANT and its surety, complete this Agreement or cause it to be completed. Any check or bond delivered to the CITY in connection with this Agreement, and the money payable thereon, will be forfeited to and remain the property of the CITY. All moneys due the CONSULTANT under the terms of this Agreement will be retained by the CITY, but the retention will not release the CONSULTANT and its surety from liability for the default. Under these circumstances, however, the CONSULTANT and its surety will be credited with the amount of money retained, toward any amount by which the cost of completion exceeds the Agreement Sum and any amount authorized for extra services.
3. Termination for cause will not affect or terminate any of the rights of the CITY as against the CONSULTANT or its surety then existing, or which may thereafter accrue because of the default; this provision is in addition to all other rights and remedies available to the CITY under law.

C. Termination for Breach of Law.

In the event the CONSULTANT or any of its officers, directors, shareholders, employees, agents, subsidiaries or affiliates is convicted (i) of a criminal offense as an incident to obtaining or attempting to obtain a public or private contract or subcontract, or in the performance of a contract or subcontract; (ii) under state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which currently, seriously, and directly affects responsibility as a public consultant or contractor; (iii) under state or federal antitrust statutes arising out of the submission of bids or proposals; or (iv) of violation of Paragraph 19 of this Agreement; or for any other cause the CITY determines to be so serious and compelling as to affect CONSULTANT's responsibility as a public consultant or contractor, including but not limited to, debarment by another governmental agency, then the CITY reserves the unilateral right to terminate this Agreement or to impose such other sanctions (which may include financial sanctions, temporary suspensions or any other condition deemed appropriate short of termination) as it deems proper. The CITY will not take action until CONSULTANT has been given notice and an opportunity to present evidence in mitigation.

5. FORCE MAJEURE

If any party fails to perform its obligations because of strikes, lockouts, labor disputes, embargoes, acts of God, inability to obtain labor or materials or reasonable substitutes for labor or materials, governmental restrictions, governmental regulations, governmental control, judicial orders, enemy or hostile governmental action, civil commotion, fire or other casualty, or other causes beyond the reasonable control of the party obligated to perform, then that party's performance shall be excused for a period equal to the period of such cause for failure to perform.

6. RETENTION OF FUNDS

CONSULTANT authorizes CITY to deduct from any amount payable to CONSULTANT (whether or not arising out of this Agreement) any amounts the payment of which may be in dispute or that are necessary to compensate CITY for any losses, costs, liabilities, or damages suffered by CITY, and all amounts for which CITY may be liable to third parties, by reason of CONSULTANT's negligent acts or omissions or willful misconduct in performing or failing to perform CONSULTANT's obligations under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by CONSULTANT, or any indebtedness exists that appears to be the basis for a claim of lien, CITY may withhold from any payment due, without liability for interest because of the withholding, an amount sufficient to cover the claim. The failure of CITY to exercise the right to deduct or to withhold will not, however, affect the obligations of CONSULTANT to insure, indemnify, and protect CITY as elsewhere provided in this Agreement.

7. **CITY REPRESENTATIVE**

The Public Works Director is designated as the “City Representative,” authorized to act in its behalf with respect to the work and services specified in this Agreement and to make all decisions in connection with this Agreement. Whenever approval, directions, or other actions are required by CITY under this Agreement, those actions will be taken by the City Representative, unless otherwise stated. The City Manager has the right to designate another City Representative at any time, by providing notice to CONSULTANT.

8. **CONSULTANT REPRESENTATIVE(S)**

The following principal(s) of CONSULTANT are designated as being the principal(s) and representative(s) of CONSULTANT authorized to act in its behalf with respect to the work specified in this Agreement and make all decisions in connection with this Agreement:

Sid Mousavi, C.E.O.
Ray Abassi, President

9. **INDEPENDENT CONTRACTOR**

The CONSULTANT is, and at all times will remain as to CITY, a wholly independent contractor. Neither CITY nor any of its agents will have control over the conduct of the CONSULTANT or any of the CONSULTANT’s employees, except as otherwise set forth in this Agreement. The CONSULTANT may not, at any time or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of CITY.

10. **BUSINESS LICENSE**

The CONSULTANT must obtain a City business license prior to the start of work under this Agreement, unless CONSULTANT is qualified for an exemption.

11. **OTHER LICENSES AND PERMITS**

CONSULTANT warrants that it has all professional, contracting and other permits and licenses required to undertake the work contemplated by this Agreement.

12. **FAMILIARITY WITH WORK**

By executing this Agreement, CONSULTANT warrants that CONSULTANT (a) has thoroughly investigated and considered the scope of services to be performed, (b) has carefully considered how the services should be performed, and (c) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, CONSULTANT warrants that CONSULTANT has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services set forth in this Agreement. Should CONSULTANT discover any latent or unknown conditions that will materially affect the performance of the services set forth in this Agreement, CONSULTANT must immediately inform CITY of that fact and may not proceed except at CONSULTANT’s risk until written instructions are received from CITY.

13. **CARE OF WORK**

CONSULTANT must adopt reasonable methods during the term of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and other components to prevent losses or damages, and will be responsible for all damages, to persons or property, until acceptance of the work by CITY, except those losses or damages as may be caused by CITY's own negligence.

14. **CONSULTANT'S ACCOUNTING RECORDS; OTHER PROJECT RECORDS**

Records of the CONSULTANT's time pertaining to the project, and records of accounts between CITY and the CONSULTANT, will be kept on a generally recognized accounting basis. CONSULTANT will also maintain all other records, including without limitation specifications, drawings, progress reports and the like, relating to the project. All records will be available to CITY during normal working hours. CONSULTANT will maintain these records for three years after final payment.

15. **INDEMNIFICATION**

CONSULTANT will indemnify, defend, and hold harmless CITY, the Redevelopment Agency of the City of Torrance, the City Council, each member thereof, present and future, members of boards and commissions, its officers, agents, employees and volunteers from and against any and all liability, expenses, including defense costs and legal fees, and claims for damages whatsoever, arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the CONSULTANT, including, without limitation those arising from the breach of contract, bodily injury, death, personal injury, property damage, loss of use, or property loss. The obligation to indemnify, defend and hold harmless includes, but is not limited to, any liability or expense, including defense costs and legal fees, arising from the negligent acts or omissions, or willful misconduct of CONSULTANT, its officers, employees, agents, subcontractors or vendors. It is further agreed, CONSULTANT's obligations to indemnify, defend and hold harmless will apply to the extent of CONSULTANT's contributing negligence, recklessness, or willful misconduct even in the event of concurrent negligence on the part of CITY, the City council, each member thereof, present and future, or its officers, agents and employees. Payment by CITY is not a condition precedent to enforcement of this indemnity. In the event of any dispute between CONSULTANT and CITY, as to whether liability arises from the concurrent negligence of the CITY or its officers, employees, agents, subcontractors or vendors, CONSULTANT will be obligated to pay for City's defense until such time as a final judgment has been entered adjudicating the CITY's share of responsibility. CONSULTANT will be entitled in the event of a determination of CITY's responsibility to reimbursement of defense costs including but not limited to attorney's fees, expert fees and costs of litigation reflecting the CITY's proportionate share of such expenses.

16. **NON-LIABILITY OF CITY OFFICERS AND EMPLOYEES**

No officer or employee of CITY will be personally liable to CONSULTANT, in the event of any default or breach by the CITY or for any amount that may become due to CONSULTANT.

17. **INSURANCE**

- A. CONSULTANT must maintain at its sole expense the following insurance, which will be full coverage not subject to self insurance provisions:
1. Automobile Liability, including owned, non-owned and hired vehicles, with at least the following limits of liability:
 - a. Primary Bodily Injury with limits of at least \$500,000 per person, \$1,000,000 per occurrence; and
 - b. Primary Property Damage of at least \$250,000 per occurrence; or
 - c. Combined single limits of \$1,000,000 per occurrence.
 2. General Liability including coverage for premises, products and completed operations, independent contractors/vendors, personal injury and contractual obligations with combined single limits of coverage of at least \$1,000,000 per occurrence.
 3. Professional liability insurance with limits of at least \$1,000,000 per occurrence.
 4. Workers' Compensation with limits as required by the State of California and Employers Liability with limits of at least \$1,000,000.
- B. The insurance provided by CONSULTANT will be primary and non-contributory
- C. CITY ("City of Torrance"), the Redevelopment Agency of the City of Torrance, the City Council and each member thereof, members of boards and commissions, every officer, agent, official, employee and volunteer must be named as additional insured under the automobile and general liability policies.
- D. CONSULTANT must provide certificates of insurance and/or endorsements to the City Clerk of the City of Torrance before the commencement of work.
- E. Each insurance policy required by this Paragraph must contain a provision that no termination, cancellation or change of coverage can be made without thirty days notice to CITY.

18. **SUFFICIENCY OF INSURERS AND SURETIES**

Insurance or bonds required by this Agreement will be satisfactory only if issued by companies admitted to do business in California, rated "B+" or better in the most recent edition of Best's Key Rating Guide, and only if they are of a financial category Class VII or better, unless these requirements are waived by the Risk Manager of CITY ("Risk Manager") due to unique circumstances. In the event the Risk Manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to CITY, the CONSULTANT agrees that the minimum limits of

any insurance policies or performance bonds required by this Agreement may be changed accordingly upon receipt of written notice from the Risk Manager; provided that CONSULTANT will have the right to appeal a determination of increased coverage by the Risk Manager to the City Council of CITY within 10 days of receipt of notice from the Risk Manager.

19. CONFLICT OF INTEREST

- A. No officer or employee of the CITY may have any financial interest, direct or indirect, in this Agreement, nor may any officer or employee participate in any decision relating to the Agreement that effects the officer or employee's financial interest or the financial interest of any corporation, partnership or association in which the officer or employee is, directly or indirectly interested, in violation of any law, rule or regulation.
- B. No person may offer, give, or agree to give any officer or employee or former officer or employee, nor may any officer or employee solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any way pertaining to any program requirement, contract or subcontract, or to any solicitation or proposal.

20. NOTICE

- A. All notices, requests, demands, or other communications under this Agreement will be in writing. Notice will be sufficiently given for all purposes as follows:
 - 1. Personal delivery. When personally delivered to the recipient: notice is effective on delivery.
 - 2. First Class mail. When mailed first class to the last address of the recipient known to the party giving notice: notice is effective three mail delivery days after deposit in an United States Postal Service office or mailbox.
 - 3. Certified mail. When mailed certified mail, return receipt requested: notice is effective on receipt, if delivery is confirmed by a return receipt.
 - 4. Overnight delivery. When delivered by an overnight delivery service, charges prepaid or charged to the sender's account: notice is effective on delivery, if delivery is confirmed by the delivery service.
 - 5. Facsimile transmission. When sent by fax to the last fax number of the recipient known to the party giving notice: notice is effective on receipt. Any notice given by fax will be deemed received on the next business day if it is received after 5:00 p.m. (recipient's time) or on a non-business day.

6. Addresses for purpose of giving notice are as follows:

CONSULTANT:	AAE Incorporated 601 S. Valencia Avenue Suite 250 Brea, CA 92823 Fax: (714) 940-0700
CITY:	City Clerk City of Torrance 3031 Torrance Boulevard Torrance, CA 90509-2970 Fax: (310) 618-2931

- B. Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified, will be deemed effective as of the first date the notice was refused, unclaimed or deemed undeliverable by the postal authorities, messenger or overnight delivery service.
- C. Either party may change its address or fax number by giving the other party notice of the change in any manner permitted by this Agreement.

21. **PROHIBITION AGAINST ASSIGNMENT AND SUBCONTRACTING**

This Agreement and all exhibits are binding on the heirs, successors, and assigns of the parties. The Agreement may not be assigned or subcontracted by either CITY or CONSULTANT without the prior written consent of the other.

22. **INTEGRATION; AMENDMENT**

This Agreement represents the entire understanding of CITY and CONSULTANT as to those matters contained in it. No prior oral or written understanding will be of any force or effect with respect to the terms of this Agreement. The Agreement may not be modified or altered except in writing signed by both parties.

23. **INTERPRETATION**

The terms of this Agreement should be construed in accordance with the meaning of the language used and should not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction that might otherwise apply.

24. **SEVERABILITY**

If any part of this Agreement is found to be in conflict with applicable laws, that part will be inoperative, null and void insofar as it is in conflict with any applicable laws, but the remainder of the Agreement will remain in full force and effect.

25. **TIME OF ESSENCE**

Time is of the essence in the performance of this Agreement.

26. **GOVERNING LAW; JURISDICTION**

This Agreement will be administered and interpreted under the laws of the State of California. Jurisdiction of any litigation arising from the Agreement will be in Los Angeles County, California.

27. COMPLIANCE WITH STATUTES AND REGULATIONS

CONSULTANT will be knowledgeable of and will comply with all applicable federal, state, county and city statutes, rules, regulations, ordinances and orders.

28. WAIVER OF BREACH

No delay or omission in the exercise of any right or remedy by a nondefaulting party on any default will impair the right or remedy or be construed as a waiver. A party's consent or approval of any act by the other party requiring the party's consent or approval will not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing and will not be a waiver of any other default concerning the same or any other provision of this Agreement.

29. ATTORNEY'S FEES

Except as provided for in Paragraph 15, in any dispute, litigation, arbitration, or other proceeding by which one party either seeks to enforce its rights under this Agreement (whether in contract, tort or both) or seeks a declaration of any rights or obligations under this Agreement, the prevailing party will be awarded reasonable attorney's fees, together with any costs and expenses, to resolve the dispute and to enforce any judgment.

30. EXHIBITS

All exhibits identified in this Agreement are incorporated into the Agreement by this reference.

31. CONSULTANT'S AUTHORITY TO EXECUTE

The person(s) executing this Agreement on behalf of the CONSULTANT warrant that (i) the CONSULTANT is duly organized and existing; (ii) they are duly authorized to execute this Agreement on behalf of the CONSULTANT; (iii) by so executing this Agreement, the CONSULTANT is formally bound to the provisions of this Agreement;

and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which the CONSULTANT is bound.

CITY OF TORRANCE
a Municipal Corporation

AAE Incorporated
a California Corporation

Frank Scotto, Mayor

By: _____
Sid Mousavi
C.E.O.

ATTEST:

Sue Herbers
City Clerk

APPROVED AS TO FORM:
JOHN L. FELLOWS III
City Attorney

By: _____

Attachments: Exhibit A Scope of Services
 Exhibit B Compensation Schedule

Revised: 10/29/2008

EXHIBIT A
SCOPE OF SERVICES

(see next page)

Bilezerian, Craig

From: Bilezerian, Craig
Sent: Monday, January 26, 2009 8:42 AM
To: 'RAbassi@aaeinc.com'; 'ekao@katzokitsu.com'; 'WOkitsu@KatzOkitsu.com'; 'rob@albertgrover.com'; 'aga@albertgrover.com'
Cc: Bilezerian, Craig
Subject: City of Torrance: Request for Traffic Engineering Services for Traffic Signal Operations and Synchronization
Attachments: 28645_1.doc

Gentlemen,

The City of Torrance is seeking the services of a Traffic Engineering consultant to assist with its traffic signal synchronization program. Specifically, we need help in the following:

1. Analyzing existing conditions (timing, phasing, detection, synchronization, etc) at several intersections on arterial streets;
2. Reviewing newly-prepared timing sheets and time/space diagrams for arterial streets included in our joint effort with LA County; and
3. Prepare new timing sheets, phase diagrams, time/space diagrams for the City for arterial streets not included in the joint City/County project; and
4. Perform other miscellaneous services and attend meetings related to traffic signal operations and synchronization.

The initial contract would be for 1 year. A copy of our standard contract is attached. If interested, please send me your firm's statement of qualifications, resumes of potential staff and your schedule of fees on or before Tuesday February, 10. You may contact me with any questions. Thank you.

Craig Bilezerian, P.E.
Engineering Manager | Public Works Department
City of Torrance | 20500 Madrona Avenue | Torrance CA 90503 | 310.618.3054 voice | 310.781.6902 fax |
cbilezerian@torrnet.com | www.torrnet.com



FEB 10 2008

Public Works Department

February 10, 2009

Mr. Craig Bilezerian, P.E.
Engineering Manager
Public Works Department
City of Torrance
20500 Madrona Avenue
Torrance, CA 90503

Dear Mr. Bilezerian;

Strategically located in the South Bay region of Los Angeles County, the City of Torrance with its diverse community, safe neighborhoods and thriving industry is one of the premiere communities in Southern California. Torrance is truly "the City with a Hometown feel" and we are excited to provide our qualifications for the City's consideration.

AAE Inc is a full service municipal engineering firm that specializes in providing a full range of traffic engineering services to municipalities throughout Southern California. Our principal office is located in the City of Orange with branch offices in the Cities of Montebello, Diamond Bar, Brea and Laguna Hills.

Based upon the City's request we offer our team that is uniquely qualified to provide professional traffic engineering services for the following reasons:

- Because we specialize in providing services only to municipalities we are able to streamline complex projects enabling us to meet expedited project schedules.
- We are intimately familiar with the coordination required with outside agencies, specifically the County of Los Angeles.
- All of our team members have extensive experience with recent and near identical projects.
- Many of our staff work on behalf of cities alongside City Staff and therefore are well familiar with Traffic Signal Synchronization and Timing.

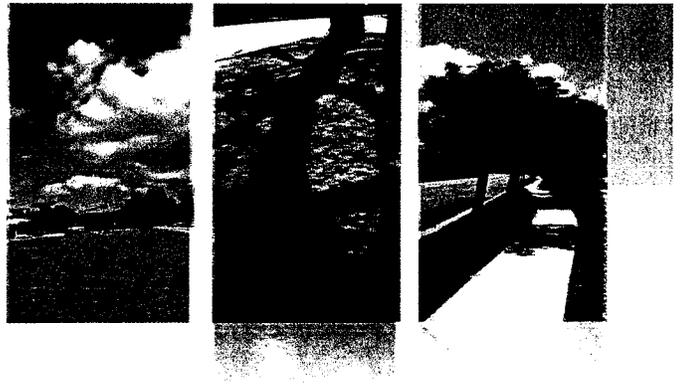
I will serve as the Project Manager and will serve as the City's primary point of contact. I can be reached at (714) 940-0100, via email at r.abassi@aaeinc.com, or at 1815 E. Heim Ave, Suite 100, Orange, CA 92865.

With the successful completion of this project the City will greatly reduce traffic congestion, improving the quality of life for the community. Thank you again for the opportunity to provide services to the City of Torrance, we wish you the best on this project and the City's future success.

Regards,

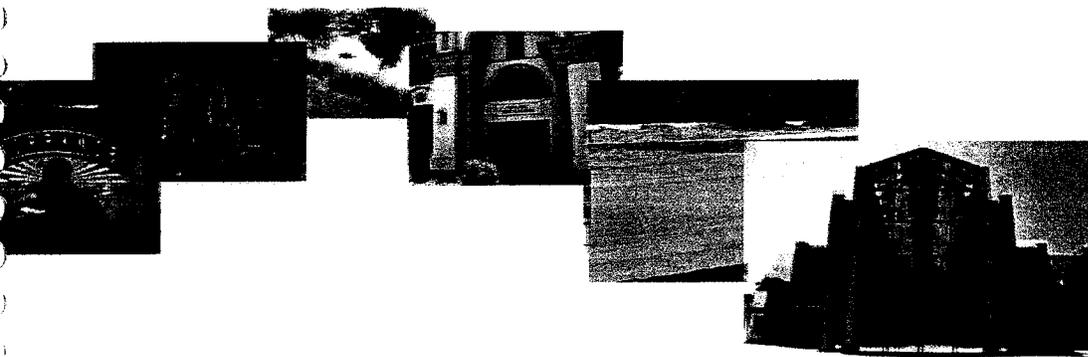
A handwritten signature in black ink, appearing to read "Raymond R. Abassi".

Raymond R. Abassi, M.S., P.E., P.T.O.E.
President, AAE Inc.



People you know...
making a difference
in your Community

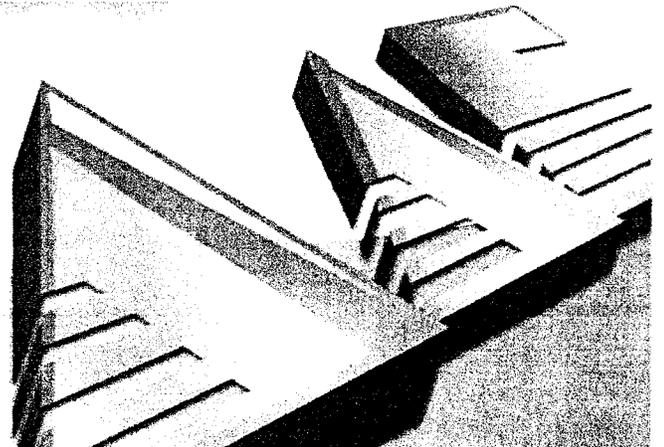
www.aadeinc.com



City of Torrance

Statement of Qualifications for Traffic
Engineering Services for Traffic Signal
Operations and Synchronization

February 10, 2009



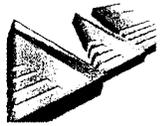
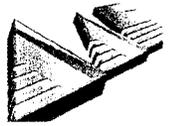


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Firm Profile

Advanced Applied Engineering, Inc. (AAE) is a leader in providing multi-disciplinary traffic engineering and municipal services to cities throughout Southern California. For 15 years, we at AAE have specialized in serving only municipalities, and have earned a reputation for outstanding quality and client service.

Since 1994, AAE has been providing multi-disciplinary engineering services to cities throughout Southern California including:

- Traffic Engineering
- Traffic Signal Design and Modification
- Traffic Signal Synchronization
- ITS Design

The AAE Team of professionals knows and understands the needs of the City of Torrance because members of our Team have had extensive experience working in cities. With that expertise, we are unsurpassed in our ability to streamline complex projects, which will result in more efficient use resources, enabling the City of Torrance to meet its goals and objectives.

Our corporate office is located at: 1815 E. Heim Ave, Suite 100, Orange, CA 92865, Telephone (714) 940-0100, Fax (714) 940-0700. In addition we have branch offices in: Brea, Montebello, Diamond Bar and Laguna Hills. Visit us on the web at www.aaeinc.com.



AAE Qualifications and Experience

Our team assigned to this project has over one hundred (100) years of experience in providing near identical services primarily to municipal governments and other public agencies. As such, we are able to quickly integrate and coordinate with City Staff and outside agencies to ensure that we meet the City's goals and objectives.

Recent similar projects completed by AAE and our team include the following:

City of Anaheim – On-call Traffic Engineering including traffic signal design, traffic signal modification, traffic signal synchronization, traffic studies, impact analysis and parking analysis for new developments.

City of Montebello – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Bell Gardens – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of La Puente – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Pico Rivera – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of South El Monte – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Norwalk – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Maywood – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

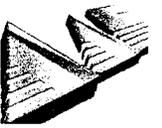
City of Glendora – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Hermosa Beach – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Chino Hills – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Monrovia – City Traffic Engineer, responsible for traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Torrance – Provided Traffic Engineering Support while the City was searching for an in-house Traffic Engineer.



References

Over the past fifteen (15) years AAE has been privileged to provide similar services to the following Cities:



City of La Puente, Traffic Engineering Services

As an exclusive municipal contract provider, AAE provides a number of services to the City of La Puente including contract City Traffic Engineer, traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of La Puente

Mr. Greg Yamachika
Assistant City Manager
15900 E. Main St.
La Puente, CA 91744
626.855.1500



City of Bell Gardens, Traffic Engineering Services

AAE provides Traffic Engineering services to the City of Bell Gardens including contract City Traffic Engineer, traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Bell Gardens

Mr. John Oropeza
Director, Public Works
7100 Garfield Ave
Bell Gardens, CA
90201
562.806.7700



City of Montebello, Traffic Engineering Services

As an exclusive municipal contract provider, AAE provides a number of services to the City of Montebello including contract City Traffic Engineer, traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Montebello

Mr. Richard Torres
City Administrator
1600 W. Beverly Blvd.
Montebello, CA 90640
323.887.1200



City of Pico Rivera, Traffic Engineering Services

As an exclusive municipal contract provider, AAE provides a number of services to the City of Pico Rivera including contract City Traffic Engineer, traffic signal design, traffic signal modification, traffic signal synchronization and traffic studies.

City of Pico Rivera

Mr. Al Cablay
Director, Public Works
6651 Passons Blvd.
Pico Rivera, CA 90660
562.942.2000



Project Staff

To meet the City's Goals and Objectives set for this project, AAE has assembled an experienced and knowledgeable team of professionals. Detailed resumes of key staff in addition to cameo resumes of support staff and are included on the following pages. Each individual listed will be available to the City and assigned as needed.

Our assigned staff will provide services from our Orange and Diamond Bar offices.

Raymond R. Abassi, M.S., P.E., T.E., P.T.O.E., Project Manager, will supervise the day to day operations and provide direct supervision of the team. Furthermore he will serve as the primary point of contact with the City of Torrance and other agencies involved.

Patrick Lang, T.E., Assistant Project Manager, will review and prepare timing sheets, phase diagrams and time/space diagrams. In addition should the Project Manager become unavailable (i.e. vacation or ill), Mr. Lang will serve as the Project Manager and will supervise the day to day operations of the team.

Joe Dyer, P.E., T.E., P.T.O.E., QA/QC, will review and prepare timing sheets, phase diagrams and time/space diagrams.

Stephen Hilton, T.E., Senior Traffic Engineer, will review and prepare timing sheets, phase diagrams and time/space diagrams.

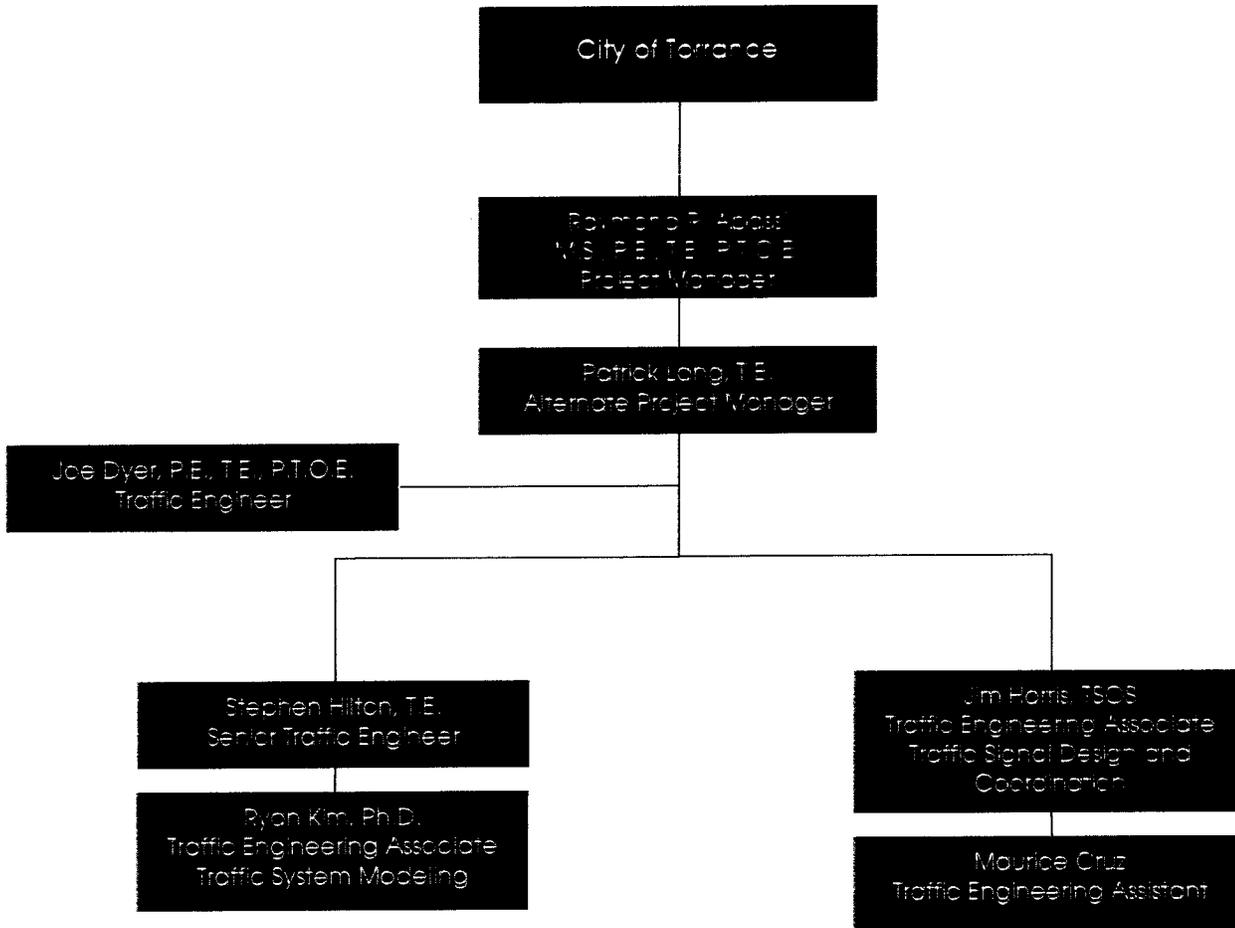
Ryan Kim, Ph.D., Traffic Engineering Associate will assist with detailed intersection analysis and modeling for project intersections.

Jim Harris, TSOS, Traffic Engineering Associate, will assist with detailed intersection analysis for project intersections.

Maurice Cruz, Traffic Engineering Assistant will provide technical assistance as needed to support the overall operations of the project team.



Organization Chart





Staff Resumes



RAYMOND R. ABASSI, M.S., P.E., T.E., P.T.O.E.
Project Manager

SUMMARY:

Mr. Abassi has over twenty (20) years of professional experience in both civil and traffic engineering, as well as project management. He holds his Bachelors of Science Degree in Civil Engineering and his Masters Degree in Traffic and Transportation Engineering. He has professional certifications in the field, including Professional Engineer and California Registered Traffic Engineer. Mr. Abassi's experience covers all aspects of traffic engineering including many signal designs. Civil experience includes investigations, studies, design plans and specifications, construction documents and quality assurance. This has involved the research and analysis of requirements, design and construction oversight associated with infrastructure improvements, such as pavement, drainage, utilities, on-site water and wastewater systems. Further traffic experience includes traffic operations and associated design elements including impact studies, traffic circulation, feasibility studies, transportation planning and preparation of the PS&E for traffic safety improvements. In addition, Mr. Abassi provides City Traffic Engineer services to various cities in Southern California.

Education:
 M.S. in
 Transportation,
 California State
 University, Long
 Beach, CA, 1995

B.S. in Civil
 Engineering,
 University of
 South Florida,
 Tampa, FL, 1994

Registration:
 Civil Engineer,
 California, No.
 48091

Traffic Engineer,
 California, No.
 1759

Professional
 Engineer, Florida,
 No. 41797

Professional
 Traffic
 Operations
 Engineer

EXPERIENCE:

- Baldwin Ave Reconstruction Project Manager for the **City of Baldwin Park**
- California Ave Reconstruction Project Manager for the **City of Baldwin Park**
- Contract City Engineer for the **City of La Puente**
- Contract City Traffic Engineer for the **City of La Puente**
- Traffic Signal Synchronization for Temple Ave for the **City of La Puente**
- Street Pavement reconstruction for Temple Ave, Nelson Ave, Francisquito Ave, Hacienda Blvd, and Amar St. for the **City of La Puente**
- Project Study Report for the widening of the Valley Blvd Bridge for the **City of La Puente**
- Plan Check Services for the **City of La Puente**
- Street Rehabilitation for Temple Ave, Amar Road, and Hacienda Blvd for the **City of La Puente**
- Contract City Traffic Engineer for the **City of Montebello**
- City-wide Street Rehabilitation for the **City of Montebello**
- Beverly Avenue Signal Synchronization for the **City of Montebello**
- Garfield Avenue Signal Synchronization for the **City of Montebello**
- Traffic Signal Modification along Wilcox Street for the **City of Montebello**
- Various Traffic Signal Timing Plans for the **City of Montebello**
- Contract City Traffic Engineer for the **City of Bell Gardens**
- Florence/Eastern Avenues Signal Synchronizations for the **City of Bell Gardens**
- Various Traffic Signal Timing Plans for the **City of Bell Gardens**
- Contract City Traffic Engineer for the **City of Hermosa Beach**
- Various Traffic Signal Timing Plans for the **City of Hermosa Beach**



PAT LANG, T.E.
Assistant Project Manager

SUMMARY:

Mr. Lang has over forty (40) years of experience in civil engineering, traffic and transportation engineering and planning projects. He has worked for many Cities including Pasadena, San Marino, Agoura Hills and South Pasadena in a variety of job capacities ranging from Deputy City Engineer to Director of Public Works. In addition, he has also worked for various private traffic engineering consulting firms during which he served as President, Principal Engineer and Director of Operations. In addition, he has provided City Traffic Engineer services to various Southern California cities. Mr. Lang currently provides City Traffic Engineering Services to Temple City and Montebello.

EDUCATION:

Bachelor of Science, Civil Engineering, University of Southern California

EXPERIENCE:

REGISTRATION:

State of California Registered Traffic Engineer

Director of Transportation – AAE Inc.

As Director of Transportation, Mr. Lang is responsible for overall supervision and administration of traffic engineering projects and operations. Specific duties include, Traffic Engineering Design, Traffic Signal Design, Signing and Striping, review of PS&E, and traffic studies. Project experience includes:

AFFILIATIONS:

Member, Institute of Transportation Engineers (ITE)

- Traffic Signal Design and Interconnect Plans for the **City of Monrovia**
- Traffic Signal Design and Interconnect Plans for the **City of Huntington Park**
- Traffic Signal Design and Interconnect Plans for the **City of Baldwin Park**
- Traffic Signal Design and Interconnect Plans for the **City of Bell Gardens**
- Traffic Signal Design and Interconnect Plans for the **City of Los Angeles**
- Traffic Signal Design and Interconnect Plans for the **City of Corona**
- Traffic Signal Design and Interconnect Plans for the **County of Los Angeles**
- Traffic Signal Design and Interconnect Plans for the **City of Palmdale**
- Traffic Signal Design and Interconnect Plans for the **City of Pomona**
- City Traffic Engineer for the **City of Norwalk**
- City Traffic Engineer for the **City of Temple City**
- City Traffic Engineer for the **City of Bell**
- City Traffic Engineer for the **City of La Canada Flintridge**
- City Traffic Engineer for the **City of Monrovia**
- City Traffic Engineer for the **City of Irwindale**
- City Traffic Engineer for the **City of Sierra Madre**
- City Traffic Engineer for the **City of Montebello**
- Traffic Survey and Studies for the **City of South Pasadena**
- Traffic Survey and Studies for the **City of Temple City**
- Traffic Survey and Studies for the **City of Irwindale**
- Traffic Survey and Studies for the **City of Upland**

Prior to AAE, Mr. Lang has provided the following services:

Sub-Consultant Traffic Engineer

Provided traffic engineering services for the following:

- Los Angeles County’s Disney Hall project - **Downtown Los Angeles**
- Hollywood Bowl Renovation project - **Hollywood**
- Victoria Golf Course Refurbishment project - **Carson**
- Alameda Corridor East -Temple Avenue Train Diversion - **Pomona**



Project Engineer

Served as Project Engineer on numerous traffic planning and parking studies for retail, commercial and residential developments. In addition, prepared the traffic portion of environmental impact studies. Projects have included:

- Granada Hills Community Hospital expansion in **Los Angeles**
- Garfield Medical Center in **San Gabriel**
- Home Savings Bank in **Sherman Oaks**
- Los Angeles International Golf Club in **Sunland-Tujunga**
- Little Tokyo Professional Building in **Los Angeles**
- Sunset/Vermont Towers Office Building in **Los Angeles**
- Ontario/Airport Plaza Mixed-Use Development in **Ontario**
- Krikorian Theaters Mixed-Use Development
- Walnut Mixed-Use Development in **Pasadena**
- 6100 Canoga Avenue Development in Warner Center
- Sunset Ranch Specific Plan (446-acre parcel located in Lancaster. This project consists of residential, commercial and industrial uses plus recreational and educational facilities.)

Director of Public Works - City of South Pasadena - Director for all engineering functions including planning, building and safety, street, park and water departments. Projects included the \$1.3 million reconstruction of Fair Oaks Roadway.



STEPHEN HILTON, T.E.
Senior Traffic Engineer

SUMMARY:

Mr. Hilton has over thirty (30) years of experience in Traffic Engineering and Transportation Planning. He holds his Bachelors of Science Degree in Civil Engineering and is registered as a Professional Traffic Engineer in California. Mr. Hilton has served as the Traffic Engineer for the cities of Simi Valley, Solano Beach, Santee and Monterey Park. He currently provides Traffic Engineering services to the cities of La Puente, Chino Hills and Bell Gardens and consults for a variety of development firms. Mr. Hiltons' experience includes: traffic planning & operations, traffic impact studies, traffic signing & striping design, traffic control plans, site access & circulation, shared parking & parking demand forecasting, parking design & planning and traffic accident analysis. In addition, he is recognized as an expert in traffic accident reconstruction and an expert witness.

EDUCATION:

Bachelor of Science, Civil Engineering

Accident Reconstruction, Accident Investigation

Computer Programming

REGISTRATION:

Traffic Engineer, 2006, California No. 2422

AFFILIATION:

Member, Institute of Transportation Engineers (ITE)
Member, City Traffic Engineers Association (CTE)

EXPERIENCE:

Senior Traffic Engineer – AAE Inc.

As a Senior Traffic Engineer, Mr. Hilton is responsible for providing a variety of professional traffic engineering services to our clients including; Traffic Engineering Design, Contract City Traffic Engineer, Transportation Design and Planning, Traffic Studies and Environmental Impact Reports. Specific project experience includes:

- Garfield Avenue Signal Synchronization for the **City of Montebello**
- Traffic Signal Modification along Wilcox Street for the **City of Montebello**
- Various Traffic Signal Timing Plans for the **City of Montebello**
- Signal Synchronization for the **City of Bell Gardens**
- Contract City Traffic Engineer for the **City of Chino Hills**
- Contract City Traffic Engineer for the **City of Pico Rivera**
- Contract City Traffic Engineer for the **City of Monrovia**
- Speed Surveys for the **City of Inglewood**
- Traffic Impact Studies for **Centex Homes**
- Traffic Impact Studies for the **City of Chino Hills**
- Parking flow studies for **Gelson's Market**
- Signing and Striping Design for the **City of Temecula**
- Signal Design for the **City of Pico Rivera**
- Signal Design for the **City of Moreno Valley**

Prior to AAE Mr. Hilton provided the following services:

City Traffic Engineer – City of Monterey Park – Mr. Hilton provided City Traffic Engineer services to the City of Monterey Park. Specific duties included review of all traffic and parking impact analyses for new development, traffic engineering design, and supervision of all traffic operations.

Additional project experience is as follows:

Transportation Engineering – responsible for preparation, review and supervision of the following: traffic impact studies, parking supply, demand analysis; mitigation measures



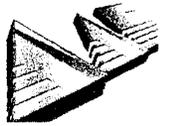
feasibility and implementation; Environmental Impact Reports/Studies, CEQA compliance and NPDES/Clean Water Act

Land Development Engineering – responsible for preparation, review and supervision of the following: area traffic modeling, impacts associated with zoning changes, impacts associated with density changes, cumulative impacts, traffic improvement fee schedules and the Subdivision Map Act.

Surveying/Right-of-Way – responsible for preparation, review and supervision of the following: Determined right-of-way needed to accommodate transportation improvements, prepared estimates for future right-of-way projects; preparation of maps, documents, and descriptions needed to acquire right of way. In addition, acquired appraisals and valuation reports needed to acquire right of way.

Project/Program Management – responsible for preparation, review and supervision of design concepts, criteria and alternatives, value engineering, contract review, cost estimates, budget and schedule development, bid package development and review, manage bidding and procurement, construction management, invoice approval and project inspection.

Accident Investigation/Reconstruction – Nearly 30 years experience investigating and reconstructing traffic accidents has provided Mr. Hilton the ability to uniquely see how engineering directly and indirectly effect vehicles and motorists on the roadway and he is also recognized as an expert witness by the court system.



Joe Dyer, P.E., T.E., P.T.O.E.
Traffic Engineer

SUMMARY:

Mr. Dyer has twenty-nine (29) years of experience in Civil and Traffic Engineering. During his distinguished career Mr. Dyer has served as a Transportation Planner, Civil Engineer, Senior Civil Engineer, City Traffic Engineer and Assistant Director of Public Works for various cities and organizations. As a City Traffic Engineer, Mr. Dyer has prepared, reviewed, critiqued and made recommendations for a variety of traffic signal designs including signal interconnect, synchronization and timing. Furthermore Mr. Dyer has acted as legal representative for the City of Whittier for litigation involving traffic accidents.

EXPERIENCE:

AAE Inc - Traffic Engineer: As Traffic Engineer, Mr. Dyer provided City Traffic Engineering Services to cities throughout Southern California. Project experience includes:

- City Engineer and City Traffic Engineer for the **City of Glendora**
- City Engineer and City Traffic Engineer for the **City of Bell Gardens**
- Assistant City Traffic Engineer for the **City of Norwalk**

Prior to AAE, Mr. Dyer served the following Cities and Agencies:

Assistant Director of Public Works/City Traffic Engineer - City of Whittier: Mr. Dyer has worked for the City of Whittier for the past 27 years in a variety of capacities including; Associate Civil Engineer, Senior Civil Engineer, City Traffic Engineer, and most recently Assistant Director of Public Works/City Traffic Engineer. During his tenure Mr. Dyer has been responsible for general public works administration and operations, including development of departmental operating policies and budgets, consultant and construction contract administration, direction of the planning and operations of the City's street maintenance, engineering, fleet maintenance, civic center maintenance, sanitation and parking assessment divisions. Mr. Dyer was also responsible for the preparation, review, critique and approval recommendation of all public works and traffic engineering reports for residential, commercial, recreational and industrial tract development, in addition to legal representative on traffic accidents litigation.

Traffic Engineer - Department of Transportation, State of California: Mr. Dyer was responsible for the preparation of engineering plans, specifications and estimates for a variety of freeway projects including drainage and geometric designs. Other duties included landslide mapping and earth movement investigations, preparation of traffic accident reports and traffic collision analysis.

EDUCATION:

B.S. Civil
Engineering,
Ohio State
University, 1976

REGISTRATION:

Civil Engineer,
California No.
31626

Traffic Engineer,
California No.
1200

Professional
Traffic Operations
Engineer,
Transportation
Professional
Certification
Board



RYAN KIM, PH.D.
Traffic Engineering Associate

SUMMARY:

Dr. Kim has obtained his Ph.D. in Transportation Planning and Engineering has studied and written on various topics related traffic and transportation engineering, including phasing and timing of traffic signals and traffic flow patterns. Dr. Kim currently conducts field surveys, and studies for various traffic projects.

EXPERIENCE

EDUCATION:

Ph.D.,
Transportation
Planning and
Engineering
/2005
Polytechnic
University, New
York

M.S.,
Transportation
Planning and
Engineering /
1999
Polytechnic
University, New
York

Graduate Poly
Grant Recipient

B.S., Civil
Engineering
/1996
Kyung Hee
University, South
Korea

AFFILIATION:

Institute of
Transportation
Engineers (ITE),

CERTIFICATIONS:

Access
Management
and Site Design

Designing Safe
Accessible
Pedestrian
Facilities

AAE Inc - Traffic Engineering Associate: Dr. Kim assists the Traffic Engineering Department with data collection, analysis and modeling. Specific experience includes the following:

- Garfield Avenue Signal Synchronization for the **City of Montebello**
- Traffic Signal Modification along Wilcox Street for the **City of Montebello**
- Various Traffic Signal Timing Plans for the **City of Montebello**
- Gale Ave. Crosswalks for the **City of Industry**
- Whittier Blvd. Traffic Study for the **City of Montebello**
- Traffic Information System Field Study for **Octagon Enterprises**

RESEARCH EXPERIENCE:

Evaluation Study to Measure the Effectiveness of Adaptive Traffic Signal Control with Vehicle Priority and Preemption in the New York City Environment (March 2002)
Conducted field surveys, data collection and ran CORSIM.

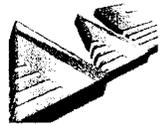
NYC Transit's 2000-2003 CMAQ Project (October 1998)
Participated in the Congestion Mitigation Air Quality Project (CMAQ) while working for the New York City Transit Authority.

Traffic Analysis of Proposed Closure of an Exterior Street Ramp for Reconstruction, the Bronx, New York (May 1998)
Conducted Field Survey, Ran HCS and Analyzed traffic impacts.

Comparative Evaluation of High Occupancy Vehicle Lanes (March 1998)
Compared HOV lane users and non-users of the Gowanus Expressway and the Long Island Expressway in New York.

SELECTED PUBLICATIONS:

Ryan Kim and Huiliang Teng, "Time Separation Control between Pedestrians and Turning Vehicles at Intersections," Accepted for possible publication for the 83rd TRB Annual Meeting (04-3702), Washington, D.C., January 2004



EDUCATION:

A.A.,
Mathematics
and Physical
Sciences/
Cerritos College,
Norwalk, CA

Certifications:

Traffic Signal
Operations
Specialist (TSOS),
Institute of
Transportation
Engineers

Training

Street Lighting
Design/ UCR
Extension

Intersection and
Channelization
Design/
Northwestern
University Traffic
Institute

JIM HARRIS, TSOS

Traffic Engineering Associate
Traffic Signal Design and Coordination

Mr. Harris has over forty (40) years experience designing, inspecting and constructing traffic signals and the signal and coordination timing for them as well as street related engineering design. His prior experience in civil engineering design, surveying and traffic signal operation and repair give him a unique expertise in how traffic and street related projects and systems work together.

AAE Inc - Traffic Signal Operations Specialist: Mr. Harris provides traffic signal design, operation and synchronization services to cities throughout Southern California. Project experience includes:

- Traffic Engineering Support for the **City of Montebello**
- Traffic Engineering Support for the **City of Bell Gardens**
- Traffic Engineering Support for the **City of Pico Rivera**

Senior Project Manager - ADVANTEC Consulting Engineers, Inc. - Ontario, California - Managed and marketed for projects involving the design of traffic signal plans, signing and striping plans, traffic control plans and traffic signal systems. Mr. Harris also provided plan check services for agencies including the cities of Rancho Cucamonga, Commerce and Inglewood, California. Is still used on an on-call basis for traffic engineering services for the City of Rancho Cucamonga involving plan checking and traffic signal turn-on and construction assistance services.

Associate Engineer/Project Manager - City of Rancho Cucamonga, California - Responsible for the timing, operation, design, plans and specifications for traffic signals and systems for the City of Rancho Cucamonga. That responsibility required plan and specification checking and review of all Capital Improvement and Developer generated traffic signal projects. Made presentations to City Council. Checked and supervised the preparation of studies for traffic signal coordination and traffic impact analyses. Used TRANSYT-7F, PASSER, WEBSTER, HCS, SYNCHRO and like software as well as the Internet. Developed and used spreadsheets for Intersection Capacity Utilization calculations, Conductor and Detector Schedules and project estimating. I prepared HES, OTS, FETSIM and other grant applications. Project Director on the City's Office of Traffic Safety Grant for a Computerized Collision Database and Analysis System and was on the County-wide/SanBAG Collision Database Project TAC as well. Helped prepare the department annual budget. When absent, substituted for the City Traffic Engineer.

Senior Designer II/Project Manager - Willdan Associates (now Willdan) - Industry, California - Checked, designed and directed the preparation of plans, specifications and estimates for traffic signal, street lighting and transportation projects for clients from Ventura to the Mexican border including the City of Long Beach portion of their light-rail system. Prepared spreadsheet templates for Intersection Capacity Utilization calculations, speed zoning, parking studies and other traffic related work. Used PASSER II and TRANSYT-7F programs and prepared and processed grant applications and plans through Caltrans and other public agencies. Trained others to design and time traffic signals and worked on the first FETSIM projects in several cities for the optimization of signal timing to reduce congestion and increase air quality. This included hands-on installation and adjustment of the City of Irvine's computerized traffic control system.



Senior Designer - Berryman and Stephenson, Inc. (now Bureau Veritas, Berryman & Henigar) - Anaheim, California - Prepared, designed and drafted plans, specifications and cost estimates for traffic signal, signing, striping, lighting and other projects. Also checked plans and tract maps and prepared legal sketches and descriptions, engineering and traffic surveys and Federal and State grant applications.

Traffic Engineering Assistant - Alderman, Swift and Lewis (now Tetra Tech, Inc.) - South Pasadena, California - Collected and assimilated data in the field and office for use in two 4-city area TOPICS studies that included traffic signal equipment, collision records, traffic counts, signs and delineation. Also drafted traffic signal and signing and striping plans and conducted traffic and engineering studies for the determination of speed limits.

Traffic Engineering Technician - Traffic Signal Maintenance Co. (now Republic Electric) - Monterey Park, California - Repaired electro-mechanical traffic signal equipment, assisted with extra-ordinary traffic signal maintenance and prepared billing invoices.

Engineering Aide - City of Norwalk, California - Gathered traffic data including traffic counts and radar speed surveys and drafted signal and lighting plans, miscellaneous sketches and maps and updated utility records, maps and collision diagrams.



EDUCATION:
CADD Course
(Specializing in
AutoCAD and
MicroStation),
Westech
College,
Pomona, 2002

General
Education, Mt.
San Antonio
College, 2000

Certifications:
Intelligent
Transportation
Systems

Standard
Training, US
DOT's Joint

Program
Office (JPO)
and ITE, June
24-25, 2004,
Los Angeles,
California.

MARURICE CRUZ
Traffic Engineering Assistant

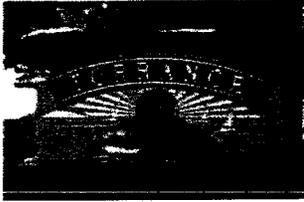
Mr. Cruz has been working extensively in traffic engineering and transportation planning projects for the public and private sectors. His expertise includes Work Zone Traffic Control Design, Traffic Detour Plan Design, Traffic Signal Design and Operation, Signal Interconnect Design, Lighting Design, Traffic Impact Study, and Traffic Operational Analysis.

AAE Inc - Traffic Signal Operations Specialist: Mr. Cruz provides technical support services for traffic signal design, modification, synchronization and timing to cities throughout Southern California. Project experience includes:

- Traffic Signal Design and Synchronization for the **City of Monrovia**
- Traffic Signal Synchronization for the **City of Montebello**
- Traffic Signal Design and Synchronization for the **City of Moreno Valley**
- Traffic Engineering Support for the **City of Montebello**
- Traffic Engineering Support for the **City of Bell Gardens**
- Traffic Engineering Support for the **City of Pico Rivera**



Project Understanding



The City of Torrance, incorporated in 1921 has a population of over 143,000 and is strategically located in the South Bay region of Los Angeles County. Currently the City of Torrance is the sixth largest city in Los Angeles County and is home to a rich business community, several refineries and world class recreation facilities including beaches, nature parks and the James Armstrong Theater.

The City is currently soliciting Statements of Qualifications from Traffic Engineering Firms to assist with traffic signal synchronization to include the following elements:

- Analysis of existing conditions
- Review of timing sheets and time/space diagrams
- Preparation of new timing sheets, phase diagrams and time/space diagrams
- Other miscellaneous duties required including attendance of meetings, etc.

Based upon our conversation with the City there are approximately 12 intersections in need of synchronization, some of which are to be synchronized in conjunction with Los Angeles County.



Fees

AAE will provide services in accordance with the fees listed in the Hourly Rate Sheet contained in Appendix A. Staff listed will be assigned to the City of Torrance based upon project need.

EXHIBIT B
COMPENSATION SCHEDULE

(see next page)

A A E
I N C O R P O R A T E D

HOURLY RATE SCHEDULE

AAE, Inc. - As of April 1, 2008

Principal in Charge	\$200
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Civil Engineering

Project Manager	\$150
Geo-Technical Engineer	\$160
Senior Engineer	\$140
Plan Checker	\$99
Engineering Associate	\$95
Engineering Assistant	\$85
Engineering Technician	\$80
CAD Manager	\$110
CAD Operator	\$80

Traffic Engineering

Principal Engineer	\$195
Senior Traffic Engineer	\$145
Traffic Engineer	\$140
Plan Checker	\$99
Engineering Associate	\$99
Engineering Assistant	\$85
Engineering Technician	\$80
CAD Manager	\$110
CAD Operator	\$80
Transit Planner	\$99

Surveying

Surveyor Party Chief	\$150
Survey Crew - 2 person	\$210
Survey Crew - 3 person	\$255
Survey Analyst	\$120
Plan Checker (Subdivision & Survey Document)	\$120

Construction Management

Construction Manager	\$145
Resident Engineer	\$140
Scheduler/Controller	\$110
Senior Inspector	\$85
Inspector	\$75
Technician	\$60

Other Charges

Delivery	\$55
Mileage	\$0.59/Mile
Travel	Cost + 15%
Reimbursements	Cost + 15%

Interim City Manager	\$175
Assistant/Deputy City Manager	\$145

Program Management

Project Director	\$140
Program Manager	\$120
Program Supervisor	\$99
Sr. Program Coordinator	\$90
Program Coordinator	\$80
Program Assistant	\$65

Municipal Engineering Support

City Engineer	\$140
City Traffic Engineer	\$140
Deputy Engineer	\$130
Dep. City Traffic Engineer	\$130
Engineering Manager	\$125
Plan Checker	\$99

Public Relations

PR Project Principal	\$140
PR Project Manager	\$120
PR Coordinator	\$80
PR Assistant	\$65
Graphic Designer	\$99
Market Research Coordinator	\$75
Market Research Assistant	\$65
Media Relations Manager	\$130
Web Programming	\$99
Illustration	\$99

Building & Safety

Building Official	\$135
Plan Check Engineer	\$130
Senior Building Inspector	\$85
Building Inspector	\$75
Technician	\$60

Clerical

Organizer/Supervisor	\$75
Clerk Typist	\$60

Additional billing classifications may be added to the above list throughout the year as new positions are created. The above schedule is for straight time. Overtime will be charged at 1.5 times. Sundays and holidays are charged at 2.0 times the standard time.