

7-15-80

2

EL CAMINO AVENUE & GROVE AVENUE IMPROVEMENTS  
STREET LIGHTS & TRAFFIC SIGNALS

C. C. 1877

Sacramento  
California

SEPARATE  
PLANS

Bids to be received: August 5, 1980

NOTICE TO CONTRACTORS

Sealed Proposals will be received by the City Clerk of the City of Sacramento at the office of the City Clerk, Room 203, City Hall, located on "I" Street between 9th and 10th Streets, up to the hour of 10:00 a.m. on August 5, 1980 and opened at 10:15 a.m. in the Council Chambers, City Hall for

EL CAMINO AVENUE & GROVE AVENUE IMPROVEMENTS  
STREET LIGHTS & TRAFFIC SIGNALS

as set forth in plans and specifications adopted July 15, 1980.

All such proposals received and any work performed thereunder must comply with the requirements of Chapter 58 of the Sacramento City Code (Ordinance No. 3129, Fourth Series).

Bids must be submitted on printed forms supplied by the City Clerk without charge to prospective bidders and enclosed in an envelope marked "Sealed Proposals for

EL CAMINO AVENUE & GROVE AVENUE IMPROVEMENTS  
STREET LIGHTS & TRAFFIC SIGNALS

All contractors, subcontractors and all concerned must comply with the Rate of Wages per hour as established by the Director of the Department of Industrial Relations under provisions of Sections 1770 and 1773 of the Labor Code of the State of California, a copy of which is on file in the office of the City Clerk; or such other rate of wages as may hereafter be established by the Director of the Department of Industrial Relations in compliance with Section 1770 of the Labor Code of the State of California

Each bid must be accompanied by cash, cashier's check, certified check or bid bond made payable to the order of the City Director of Finance in the sum of ten percent (10%) of the aggregate of said Proposal.

The right to reject any and all bids or to waive any informality in any bid received is reserved by the City Council.

Lorraine Magana  
City Clerk

SEALED PROPOSAL

Sealed Proposals will be received not later than 10:00 a.m. on August 5, 1980 at the office of the City Clerk, Room 203, City Hall, Sacramento, California and opened at 10:15 a.m. on August 5, 1980 in the Council Chambers, City Hall, Sacramento, California.

TO THE HONORABLE CITY COUNCIL:

The undersigned hereby proposes and agrees to furnish any and all required labor, materials, transportation and services for

EL CAMINO AVENUE & GROVE AVENUE IMPROVEMENTS

in the City and County of Sacramento, California.

The work is to be done in strict conformity with the Plans, Standard Specifications and Special Provisions all as on file in the office of the City Clerk at the following unit prices:

Item No.	Item	Est. Quantity	Unit	Unit Price	Total
1.	Clearing and Grubbing	1	Job	L. S.	\$ _____
2.	Asphaltic Concrete Pavement	16	Ton	\$ _____	\$ _____
3.	Aggregate Base Class II	27	Ton	\$ _____	\$ _____
4.	PCC Curb, Gutter & Sidewalk to Remove	1988	S.F.	\$ _____	\$ _____
5.	3½" Thick PCC Sidewalk to Construct	710	S.F.	\$ _____	\$ _____
6.	Modified Curb & Gutter #4 to Construct	263	L.F.	\$ _____	\$ _____
7.	Tree to Remove (2)	2	Each	\$ _____	\$ _____
8.	Furnishing & Installing Traffic Signals and Street Lighting Systems	1	Job	L. S.	\$ _____

TOTAL

If awarded the contract, the undersigned agrees to sign said contract and furnish the necessary bonds within ten (10) days after the notice of award of said contract and to begin work within fifteen (15) days after the signing of the contract by the Contractor and the City.

In determining the amount bid by each bidder, City shall disregard mathematical errors in addition, subtraction, multiplication and division that appear on the face of the Proposal. When such a mathematical error appears on the face of the Proposal, the City shall have the right to correct such error and to compute the total amount bid by said bidder on the basis of the corrected figure or figures.

When an item price is required to be set forth in the Proposal, and the total for the item set forth separately does not agree with a figure which is derived by multiplying the item price times the Engineer's estimate of the quantity of work to be performed for said item, the item price shall prevail over the sum set forth as the total for the item.

The total paid for each such item of work shall be based upon the item price and not the total price. Should the Proposal contain only a total price for the item and the item price is omitted, the City shall determine the item price by dividing the total price for the item by Engineer's estimate of the estimated quantities of work to be performed as items of work.

If the Proposal contains neither the item price nor the total for the item, then it shall be deemed incomplete and the Proposal shall be disregarded.

It is understood that this bid is based upon completion of the work within a period of one hundred eighty (180) calendar days commencing on the day the Contractor begins work.

The undersigned has examined the location of the proposed work and is familiar with the plans, specifications, and other contract documents and the local conditions at the place where the work is to be done.

The undersigned has checked carefully all of the above figures and understands that the City of Sacramento will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

The undersigned agrees that this bid shall be good and may not be withdrawn for a period of forty-five (45) calendar days after scheduled closing time for receiving bids.

**BID DEPOSIT ENCLOSED IN THE FOLLOWING FORM:**

- \_\_\_\_\_ not less than 10% of amount bid
- \_\_\_\_\_ certified check
- \_\_\_\_\_ cashier's check
- \_\_\_\_\_ money order
- \_\_\_\_\_ cash
- \_\_\_\_\_ bid bond

**CONTRACTOR**

\_\_\_\_\_

By \_\_\_\_\_

Telephone No. ( ) \_\_\_\_\_

Title \_\_\_\_\_

**CONTRACTOR'S LICENSE**

Address \_\_\_\_\_

Valid Contractor's License No. \_\_\_\_\_  
is held by the bidder.

# SUB-BIDDER FORM

In accordance with Sections 4101 and 4107, inclusive, of the Government Code of the State of California, as amended, the following information is submitted concerning sub-bidders:

NAME SUB-BIDDER	ADDRESS SHOP, MILL OR OFFICE	CLASS OF WORK	PORTION OF WORK TO BE DONE

FOLLOWING FORMS TO BE FILLED OUT AND SIGNED

ONLY

IF AWARDED CONTRACT

# GUARANTEE

We hereby guarantee the

---

which we propose to install in the City of Sacramento for one (1) year in accordance with the guarantee required in the specifications. We agree to repair or replace any or all such work, together with all or any other work which may be displaced in so doing, that may be proven defective in workmanship or material within the period from the date of acceptance without expense whatsoever to the City, ordinary wear and tear and unusual abuse or neglect excepted.

In the event of our failure to comply with the above mentioned conditions within five (5) days time after being notified in writing, we collectively or separately, do hereby authorize the City to proceed to have the defects repaired and made good at our expense and will pay the costs and damages therefor immediately upon demand.

Signed:

---

---

---

Dated:

---

WORKMEN'S COMPENSATION INSURANCE CERTIFICATION

TO THE CITY OF SACRAMENTO:

The undersigned does hereby certify that he is aware of the provisions of Section 3700 et seq. of the Labor Code which require every employer to be insured against liability for workmen's compensation claims or to undertake self-insurance in accordance with the provisions of said Code, and that he will comply with such provisions before commencing the performance of the work on this contract.

\_\_\_\_\_ Bidder

By \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

PLEASE READ CAREFULLY BEFORE SIGNING

To be signed by authorized corporate officer or partner or individual submitting the bid. If bidder is: (example)

1. An individual using a firm name, sign: "John Doe; an individual doing business as Blank Company."
2. An individual doing business under his own name, sign: your name only.
3. A co-partnership, sign: "John Doe and Richard Doe, co-partners doing business as Blank Company, by, John Doe, Co-Partner."
4. A corporation, sign: "Blank Company, by John Doe, Secretary." (or other title)



# AGREEMENT

THIS AGREEMENT entered into as of \_\_\_\_\_ between the CITY OF SACRAMENTO, a municipal corporation, hereinafter called the City, and \_\_\_\_\_

hereinafter called the Contractor.

The parties hereto mutually agree as follows:

## 1. Contract Documents

The following contract documents relating to this agreement are hereby made a part of and incorporated by reference into this Contract: The Advertisement, Notice to Contractors, the Bid, the Agreement, Standard Specifications, Special Provisions and Plans applicable to this work, and all modifications incorporated in said documents before their execution. Any work called for in one contract document or plan and not mentioned in the other is to be performed and executed the same as if mentioned in all contract documents and plans.

## 2. Scope of Contract

The Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor and material, transportation and express necessary to perform and complete in a good and workmanlike manner, the work as called for, and in the manner designated in, and in strict conformity with, the Plans, Standard Specifications and Special Provisions adopted by the City Council of the City, which Plans and Special Provisions are entitled:

It is further understood and agreed that said tools, equipment, apparatus, facilities, labor and material shall be furnished and said work performed and completed as required in the Plans and Specifications under the direction and supervision of, and subject to the approval of the City or its representatives.

## 3. Contract Amount and Payments

City agrees to pay and the Contractor agrees to accept, in full payment for the above work the sum of \_\_\_\_\_ DOLLARS

(\$\_\_\_\_\_), which sum is to be paid according to the following schedule and subject to additions and deductions as provided in the general conditions of the Contract and in accordance with said bid and proposal as follows:

On the first of the month, Contractor shall present to City a statement showing the amount of labor and materials incorporated in the work during the preceding month; the City shall inspect the statement and shall issue a certificate for 90% of the amount it shall find to be due.

The final payment certificate of 10% will be made 35 days after the completion and acceptance by the City of the work included in this Contract and all payments will be due when certificates are issued, in accordance with the Standard Specifications and Special Provisions.

4. DELAYS BEYOND CONTROL OF CONTRACTOR

The time during which Contractor is delayed in said work by the acts or neglect of City, its officers, agents, or employees, or by changes ordered in the work, or by strikes, lockouts, fire, unusual delay in transportation, unavoidable delays as defined in the Standard Specifications, or by delay authorized by City shall be considered delays beyond the control of Contractor and the time of completion shall be extended for such reasonable time as the City Engineer may decide.

This provision does not exclude the recovery of damages for delay by either part under other provisions in the contract documents.

5. PREVAILING WAGES

Pursuant to State and local law, the City has ascertained the general prevailing rate of per diem wages and rates for legal holidays, and overtime work in the locality in which the work is to be performed, for each craft or type of workman or mechanic needed to execute this contract. The general prevailing rate of wages on projects for the City for construction work shall be as set out in the applicable resolution adopted by the City Council, which is hereby made a part of the Special Provisions.

6. TIME OF COMPLETION AND LIQUIDATED DAMAGES

It is understood and agreed that the time limit for the completion of said work is \_\_\_\_\_ and should said work not be completed to the satisfaction of the City within said time, there will be deducted from the final payment thereof the sum of \_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_) as liquidated damages and not as a penalty, for each days' delay after the expiration of such period until the final acceptance of the work by the City and its delivery to the City.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date set forth above.

CITY OF SACRAMENTO  
a municipal corporation

\_\_\_\_\_  
CITY MANAGER  
or AUTHORIZED REPRESENTATIVE

CONTRACTOR

By \_\_\_\_\_  
Title \_\_\_\_\_

APPROVED AS TO FORM

\_\_\_\_\_  
CITY ATTORNEY

FUNDS AVAILABLE

\_\_\_\_\_  
DIRECTOR of FINANCE

# PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That

WHEREAS, the City of Sacramento, State of California, has awarded to

---

hereinafter designated as the "Principal," a contract for

; and

WHEREAS, said Principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract.

NOW, THEREFORE, we the Principal, and

---

as Surety, are held and firmly bound unto the City of Sacramento in the penal sum of

.....DOLLARS

(\$.....), lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bounden Principal, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said contract and any alteration thereof made as therein provided, on his or their part, to be kept and performed at the time and in the manner therein specified and in all respects according to their true intent and meaning; and shall indemnify and save harmless the City of Sacramento, its officers and agents as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue.

And the surety, for value received hereby stipulates and agrees that, in accordance with the Standard Specifications or Special Provisions, no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or additions to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument under their seals this \_\_\_\_\_ day of \_\_\_\_\_, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

\_\_\_\_\_  
Principal

By \_\_\_\_\_

Title.....

\_\_\_\_\_  
Surety

By \_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the City of Sacramento, a municipal corporation, has awarded to

---

---

hereinafter designated as the "Principal", a contract for

; and,

WHEREAS, said Principal is required to furnish a bond in connection with said contract, to secure payment of claims of laborers, mechanics, or materialmen employed on work under said contract, as provided by law;

NOW, THEREFORE, we the undersigned Principal and Surety are held and firmly bound unto the City of Sacramento in the sum of \_\_\_\_\_

DOLLARS (\$ \_\_\_\_\_),

said sum being equal to the estimated amount payable by the said City of Sacramento under the terms of the contract, for which payment well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION are such that if said Principal, his or its heirs, executors, administrators, successors, or assigns, or subcontractors shall fail to pay for any material, provisions, provender or other supplies or teams, implements or machinery used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or Labor, as required by the provisions of Chapter 7, Title XV, Part 4, Division 3, of the Civil Code, and provided that the claimant shall have complied with the provisions of said code; or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the contractor and his subcontractors pursuant to Section 18806 of the Revenue and Taxation Code, with respect to such work and labor, the Surety or Sureties hereon will pay for the same and in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, said Surety will pay a reasonable attorney's fee to be fixed by the Court.

Said bond shall inure to the benefit of any and all persons, companies and corporations entitled to file claims under Section 3181 of the Civil Code of the State of California so as to give a right of action to them or their assigns in any suit brought upon this bond.

Said Surety, for value received hereby stipulates and agrees that, in accordance with the Standard Specifications or Special Provisions, no change, extension of time, alteration or addition to the terms of the contract, or to the work to be performed thereunder, or to the specifications accompanying the same, shall in any wise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument under their seals this \_\_\_\_\_ day of \_\_\_\_\_ the name and corporate seal of each corporate party being affixed thereto, and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

\_\_\_\_\_  
PRINCIPAL

By \_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_  
SURETY

By \_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
CITY ATTORNEY

## TRAINING OF APPRENTICES ON PUBLIC WORK CONTRACTS

Attention is directed to the provisions in Section 1777.5 (Chapter 1411, Statutes of 1968) and 1777.6 of the Labor Code concerning the employment of apprentices by the contractor or any sub-contractor under him.

Section 1777.5, as amended, requires the contractor or subcontractor employing tradesmen in any apprenticeable occupation to apply to the joint apprenticeship committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen that will be used in the performance of the contract. The ratio of apprentices to journeymen in such cases shall not be less than one to five except where an exception is issued on one of the following conditions:

- A. In the event unemployment for the previous three month period in such area exceeds an average of 15 percent or
- B. In the event the number of apprentices in training in such area exceeds a ratio of 1 to 5 or
- C. If there is a showing that the apprenticeable craft or trade is replacing at least one-thirtieth of its journeymen annually through apprenticeship training either (1) on a statewide basis, or (2) on a local basis.
- D. If assignment of an apprentice to any work performed under a public works contract would create a condition which would jeopardize his life or the life, safety or property of fellow employees or the public at large or if the specific task to which the apprentice is to be assigned is of such a nature that training cannot be provided by a journeyman.

The contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employs registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions.

The contractor and any sub-contractor under him shall comply with the requirements of Sections 1777.5 and 1777.6 in the employment of apprentices. Noncompliance with Section 1777.5 can result in substantial penalties under Section 1777.7.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, ex officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

The City of Sacramento is signatory to the "Greater Sacramento Area Plan" (hereinafter referred to as the "Plan") a joint industry-labor-minority representative agreement established for the purpose of increasing the employment of minorities in all phases and at all levels of skill in the building and construction industry within the greater Sacramento area. The City has adopted the "Plan" as its affirmative action program for City construction contracts and requires a contractor and his subcontractors be signatory to the Plan in order to be eligible for an award of a City contract. Additional information regarding the Plan is available at its headquarters office located at 4320 Stockton Boulevard, Sacramento, 95821, Telephone No. (916) 452-5832.

1. As used in these specifications:

- a. "Covered area" means the geographical area within the following counties: Amador, El Dorado, Nevada, Placer, Sacramento, Sierra, and Yolo.
- b. "Director" means Director, of GSAP, or any person to whom the Director delegates authority;
- c. "Minority" includes:
  - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
  - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race;
  - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands); and
  - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is signatory under Part I of the GSAP a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of the GSAP. Each Contractor or Subcontractor participating in the GSAP is individually required to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:
  - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.



- b. Establish and maintain a current list of minority and female recruitment sources, provided written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources complied under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions, including specific review of these items with onsite supervisory personnel such as Superintendents, General foreman, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR, Part 60.3.
- l. Conduct at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended and its implementing regulations, by the Office of Federal Contract Compliance Program. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

#### GSAP REPORTING REQUIREMENTS

- (1) All contract and subcontracts (over \$10,000) are subject to the reporting requirements.
- (2) Contractors must submit a CC 257 (Monthly Employee Utilization Report) to the GSAP at 4320 Stockton Boulevard, Sacramento, California 95829.
- (3) If the Contractor is already required to submit CC 257 there is no need to submit an additional form.
- (4) This report must arrive at the GSAP no later than the 5th working day of each month.
- (5) Failure to report is automatic cause to find the Contractor in noncompliance.
- (6) Each report is monitored by GSAP and measured against the specified goals for minorities and women.

This report is required by Executive Order 11246, Sec. 203. Failure to report can result in contracts being cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts of federally assisted construction contracts.

NAME AND LOCATION OF CONTRACTOR

FEDERAL  
FUNDING  
AGENCY

5. CONSTRUCTION TRADE	Classifications	6. WORK HOURS OF EMPLOYMENT (Federal & Non-Federal)										9. TOTAL NUMBER OF EMPLOYEES		10. TOTAL NUMBER OF MINORITY EMPLOYEES			
		6a. TOTAL ALL EMPLOYEES BY TRADE		6b. BLACK (Not of Hispanic Origin)		6c. HISPANIC		6d. ASIAN OR PACIFIC ISLANDERS		6e. AMERICAN INDIAN OR ALASKAN NATIVE		7. MINORITY PERCENTAGE	8. FEMALE PERCENTAGE	M	F	M	F
		M	F	M	F	M	F	M	F	M	F						
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
TOTAL JOURNEY WORKERS																	
TOTAL APPRENTICES																	
TOTAL TRAINEES																	
GRAND TOTAL																	

11. COMPANY OFFICIAL'S SIGNATURE AND TITLE

12. TELEPHONE NUMBER (include area code)

13. DATE SIGNED

PAGE \_\_\_\_\_ OF \_\_\_\_\_

## INSTRUCTIONS FOR FILING MONTHLY EMPLOYMENT UTILIZATION REPORT (CC-257)

The Monthly Utilization Report is to be completed by each subject contractor (both prime and sub) and signed by a responsible official of the company. The reports are to be filed by the 5th day of each month during the term of the contract, and they shall include the total work-hours for each employee classification in each trade in the covered area for the monthly reporting period. The prime contractor shall submit a report for its aggregate work force and collect and submit reports for each subcontractor's aggregate work force to the Federal compliance agency that has Executive Order 11246 responsibility. (Additional copies of this form may be obtained from the U.S. Department of Labor, Employment Standards Administration, OFCCP's regional office for your area.)

- Compliance Agency ..... U.S. Government agency assigned responsibility for equal employment opportunity. (Secure this information from the contracting officer.)
- Federal Funding Agency ..... U.S. Government agency funding project (in whole or in part). If more than one agency, list all.
- Contractor ..... Any contractor who has a construction contract with the U.S. Government or a contract funded in whole or in part with Federal funds.
- Minority ..... Includes Blacks, Hispanics, American Indians, Alaskan Natives, and Asian and Pacific Islanders—both men and women.
1. Covered Area ..... Geographic area identified in Notice required under 41 CFR 60-4.2.
2. Employer's Identification Number ..... Federal Social Security Number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941).
3. Current Goals (Minority & Female) ..... See contract Notification.
4. Reporting Period ..... Monthly, or as directed by the compliance agency, beginning with the effective date of the contract.
5. Construction Trade ..... Only those construction crafts which contractor employs in the covered area.
6. Work-Hours of Employment (a-e) ..... a. The total number of male hours and the total number of female hours worked by employees in each classification.  
b.-e. The total number of male hours and the total number of female hours worked by each specified group of minority employees in each classification.
- Classification ..... The level of accomplishment or status of the worker in the trade (Journey Worker, Apprentice, Trainee)
7. Minority Percentage ..... The percentage of total minority work-hours of all work-hours (the sum of columns 6b, 6c, 6d, and 6e divided by column 6a; just one figure for each construction trade).
8. Female Percentage ..... For each trade the number reported in 6a. F divided by the sum of the numbers reported in 6a. M and F.
9. Total Number of Employees ..... Total number of male and total number of female employees working in each classification of each trade in the contractor's aggregate work force during reporting period.
10. Total Number of Minority Employees ..... Total number of male minority employees and total number of female minority employees working in each classification in each trade in the contractor's aggregate work force during reporting period.

GOALS AND TIMETABLES  
SACRAMENTO, CALIFORNIA

APPENDIX A

The following goals and timetables for female utilization shall be included in all construction contracts and subcontracts in excess of \$10,000. The goals are applicable to the contractor's aggregate on-site construction workforce whether or not part of that workforce is performing work on a covered construction contract or subcontract.

AREA COVERED

Goals for Women apply Nationwide

GOALS AND TIMETABLES

Timetable	Goals (percent)
From April 1, 1978 until March 31, 1979 -----	3.1
From April 1, 1979 until March 31, 1980 -----	5.0
From April 1, 1980 until March 31, 1981 -----	6.9

APPENDIX B

Until further notice the following goals and timetables for minority utilization shall be included in all construction contracts and subcontracts in excess of \$10,000 to be performed in the respective covered areas. The goals are applicable to the contractor's aggregate on-site construction workforce whether or not part of that workforce is performing work on a covered construction contract or subcontract.

SACRAMENTO, CALIFORNIA

Area covered - Sacramento, Yolo, Amador, Placer, El Dorado, Nevada, and Sierra Counties, California.

GOALS AND TIMETABLES

Timetable	Trade	Goal (percent)
Unitl further notice	All-----	17.5 to 20.0

SPECIAL PROVISIONS  
FOR  
EL CAMINO AVENUE & GROVE AVENUE IMPROVEMENTS

A. SCOPE OF WORK

The work to be performed under these Special Provisions in general includes furnishing and installing all necessary equipment and material for a complete remodeling of the traffic signal and street lighting system at the intersection of El Camino Avenue and Grove Avenue.

Other work to be performed is related to the change in radius of the round corners located at the northwest corner and southwest corner of the intersection and shall include, but not be limited to, removing existing tree(s), removing sections of existing curb, gutter and sidewalk, preparation of subgrade, construction of curbs, gutters and sidewalks, constructing asphalt concrete pavement, and all other work as shown on the Plans.

B. PROPOSAL CONDITIONS

1. Specifications

The work to be performed under this contract shall be done in accordance with the applicable provisions of the Standard Specifications of the City of Sacramento, adopted March 30, 1967, hereinafter called "Standard Specifications".

The General Conditions of the contract shall be governed by Sections 1 through 8 of the Standard Specifications. In the event of conflict among various specifications the Special Provisions shall govern first, followed by the Standard Specifications of the City of Sacramento and then the State Standard Specifications.

2. Special Notice Regarding Standard Specifications

Section 3-2 of the City Specifications, in reference to Section 256 of the City Charter, shall not apply to the contract. Rather the amended Section 258 approved by voters in November 1969 election shall apply in that City Council shall at any time within forty-five (45) days after the opening and reading of the bids either award the contract or reject any or all bids.

The Standard Specifications of the City of Sacramento adopted by the City Council of said City by Resolution No. 653, dated March 30, 1967, are now subject to the provisions of Chapter 58 of the Sacramento City Code, (Ordinance No. 3129, Fourth Series), effective July 15, 1972 (enacted pursuant to Section 251 of the Sacramento City Charter). If there is any conflict between the Standard Specifications as currently written and Chapter 58 of the Sacramento City Code, the latter shall govern.

3. State Standard Specifications and Plans

For specifications of a technical nature not covered by the City Standard Specifications or these Special Provisions, the Standard Specifications and Standard Plans of the State of California Business and Transportation Agency, Department of Transportation dated January 1975 shall apply.

All mention of and reference to the "State Standard Specifications" shall specifically mean the Standard Specifications of the State of California Business and Transportation Agency, Department of Transportation dated January 1975.

All mention of and reference to the "State Standard Plans" shall specifically mean the Standard Plans of the State of California, Business and Transportation Agency, Department of Transportation dated January 1975.

In the State Standard Specifications and the State Standard Plans, all mention of the "State" shall be construed to mean the "City of Sacramento" and all mention of the "Engineer" shall mean the "City Engineer" or his assistant who may have been assigned to the supervision of this project by the City Engineer.

4. Rules and Regulations

Rules and Regulations shall conform to Section 32-3 "Rules and Regulations" of the Standard Specifications.

5. Equipment List and Drawings

Shall be in accordance with Section 32-3 of the Standard Specifications and these Special Provisions.

The Contractor, within twenty (20) days after the award of contract, shall submit to the Engineer a statement from each vendor supplying electrical equipment, including but not limited to, traffic signal controller, signal heads, standards, luminaires, service pedestals and all other electrical equipment, that the orders for the materials required for this contract have been received and accepted by said vendor. The confirmed date of delivery to the Contractor shall be indicated on the statement.

6. Salvage

Shall be in accordance with Section 32-4 of the Standard Specifications.

7. Equipment to be Supplied

All equipment, material and supplies called for on the Plans and Specifications shall be new unless otherwise specified.

All equipment shall be complete and in operation to the satisfaction of the Engineer at the acceptance time of work.

All incidental parts which are not shown on the Plans or specified herein and which are necessary to complete the traffic signal and street lighting systems shall be furnished and installed as though such parts were shown on the Plans or specified herein.

8. Disqualification of Bidders

More than one (1) proposal from any individual, firm, partnership, corporation or association under the same or different names, will not be considered. Reasonable grounds for believing that any bidder is interested in more than one (1) proposal for the work will cause rejection of all proposals in which such bidder is interested. If there is reason to believe that collusion exists among the bidders, none of the participants in such collusion will be considered. Proposals in which the prices are obviously unbalanced may be rejected.

# GENERAL CONSTRUCTION REQUIREMENTS

## 1. Examination of Plans, Specifications and Site of Work

The bidder shall examine carefully the site of the contemplated work and the proposal, drawings, specifications and contract forms therefore, as required in Section 2-4 of the City Specifications.

If there is any doubt as to the true meaning of any part of the Plans, Specifications and contract documents or if discrepancies in or omissions from the drawings or specifications are found, a written request should be made to the Engineer for an interpretation or correction thereof.

No payment shall subsequently be made to the Contractor because of error on his part or of negligence or failure to acquaint himself with the existing conditions, limitations or features of the site or requirements of the contract documents; or by reason of any estimates, tests or representations of any officer, employee or agent of the City.

## 2. Time of Completion

All work shall be completed within one hundred eighty (180) calendar days from the time the bidder receives the Notice to Proceed. The Contractor shall be required to comply with requirements of Section 7 of the City Specifications.

## 3. Care and Removal of Trees and Shrubbery

Where construction is to be performed in the vicinity of trees and shrubbery, the work shall be carried on in the manner which will cause minimum damage, and the said trees and shrubs shall be protected from injury or damage resulting from the Contractor's operations.

Major roots, those two inches (2") or greater in diameter encountered in the course of excavation which are not in the way of the pipe, shall be exposed but not severed and shall be wrapped in burlap as a protective measure while exposed.

Minor roots, those two inches (2") or less in diameter that are severed in the course of excavation, shall be neatly trimmed and coated with a heavy coat of an approved tree seal.

Trees and shrubs which are to be removed and saved shall be preserved by wrapping roots in burlap after removal and keeping roots moist until replanted. After replanting, plants shall be kept watered and cared for until reestablishment is assured.

Tree branches which have to be removed will be cut off at the boles in a workman-like manner. Where tree branches are removed that extend over the work, the Contractor shall remove or trim other tree branches as directed by the Engineer so that the trees will present a balanced appearance.

Scars resulting from the trimming or removal of branches shall be treated with a heavy coat of an approved tree seal. All trees, branches and other vegetation removed during the progress of the work shall be disposed of by the Contractor at his expense in a manner satisfactory to the Engineer. The right of way and adjacent areas shall be left with a neat and finished appearance.



Payment for "Care and Removal of Trees and Shrubbery" shall be included in whatever item the Contractor deems appropriate and no additional compensation shall be made.

4. Pavement Cutting and Restoration - Existing pavement that is to remain shall be sawed or scored and broken ahead of the trenching operations. The proper tools and equipment shall be used in marking and breaking so that the pavement will cut accurately on even parallel lines at a width slightly greater than the trench.

Where pavement cutting takes place more than one (1) calendar day before trench excavation, the Contractor shall fill the pavement cuts with asphaltic patching mix and maintain a smooth riding surface until trenching begins. No pavement cutting shall precede trenching by more than thirty (30) calendar days.

Restoration of existing pavement shall consist of four inches (4") of asphaltic concrete and seven inches (7") of Aggregate Base Class II.

Asphaltic concrete shall conform to Section 19, Standard Specifications. Where cuts are in Portland cement concrete, or other material, replacement shall be of like material, thickness and finish and placed in conformance with the applicable portion of the Standard Specifications. All trenches in paved areas shall be immediately backfilled and provided with a two inch (2") cutback asphaltic concrete surface as provided in Section 25-8 of the Standard Specifications and maintained at pavement level until replaced with permanent pavement.

The cost of cutting, removing, and replacing temporary permanent pavement shall be included in the cost of the item necessitating the removal and replacement and no additional compensation will be allowed for such materials or work.

5. Bracing and Shoring of Trenches

Before beginning excavation for a trench five feet (5') or more in depth, the Contractor shall secure a permit from the Division of Industrial Safety (2422 Arden Way Phone: 445-5818). A copy of this permit must be available at the construction site.

When required by the Plans or by the Engineer, the Contractor shall submit to the Engineer a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground. Such plan shall be approved by the Engineer at least five (5) days before the Contractor intends to begin work on the trench.

If such plan varies from the shoring system standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer. Nothing herein shall be deemed to allow the use of shoring, sloping or protective system less effective than that required by the Construction Safety Orders of the Division of Industrial Safety.

Whenever any bid item requires the construction of a pipeline, sewer, sewage disposal system, boring and jacking pits, or similar trenches or open excavation which are five feet (5') or deeper, each price bid in response thereto shall contain the cost of adequate sheeting, shoring and bracing, or equivalent method, for the protection of life or limb, which shall conform to applicable safety orders.

6. Compliance with OSHA

The Contractor shall be responsible for strict compliance with all requirements of the California Occupational Safety and Health Act (Labor Code Sections 6300 et seq.) which are applicable to the work to be accomplished pursuant to this agreement. The foregoing shall include, but not be limited to all applicable Construction Safety Orders issued by the State of California, Division of Industrial Safety.

The provisions of Standard Specifications, Section 6 shall be specifically applicable to the foregoing terms of this section without reducing or diminishing in any manner the generality of the application of said Standard Specifications.

7. Maintaining Existing Drainage

The Contractor shall be responsible for maintaining existing drainage. No compensation will be paid to the Contractor for maintenance of the existing facilities, and he should include the cost of the work in the items he deems appropriate.

8. Relief from Maintenance and Responsibility - Resolution No. 108

Upon the written request of the Contractor, and upon written approval by the City Engineer, the Contractor may be relieved of the duty of maintaining and protecting certain portions of the work which have been completed in all respects in accordance with the requirements of the contract and to the satisfaction of the City Engineer, and thereafter, except with his consent the Contractor will not be required to do further work thereon.

In addition, such action by the City Engineer will relieve the Contractor of responsibility for injury or damage to said completed portions of the work resulting from use by public traffic or from the Contractor's own operations or from his negligence.

Nothing in this section providing for relief from maintenance and responsibility will be construed as relieving the Contractor of full responsibility for making good defective work or materials found at any time before either the formal acceptance of the entire contract by the City Council or during the applicable guarantee period.

9. Guarantee

All work performed under this contract shall be guaranteed for a period of one (1) year on the Guarantee Form included. Period of guarantee to start on date of acceptance of work.

D. EXISTING UTILITIES

1. General

Requirements where alignment or elevation of underground utilities is shown this data is taken from existing public records and no responsibility is assumed for their accuracy thereof. Where no elevation is indicated or the utility is not shown in profile on the Plans, the elevation of the underground utility is unknown. The Contractor shall be liable for costs of repairing damage to underground utilities.

The Contractor shall notify the underground alert center forty-eight (48) hours before work is to begin on the project: Phone (800) 642-2444.

Underground utility services, for the most part, are not shown on the Plans. It is the Contractor's responsibility to determine their exact location in the field.

The Contractor is responsible for the protection of and for any damage to all utilities and services during construction and he shall notify the respective utility owner prior to any interruption of service.

Any sewer and water services cut by trench excavation shall be replaced before nightfall of the same day in accordance with the Standard Specifications.

The City will assume the responsibility for the removal, relocation or protection of existing utilities located on the project site which are not identified on the Plans and Specifications. Contractor shall not be assessed liquidated damages for delay in completion of the project when such delay was caused by the failure of the City or the owner of the utility to provide for removal, relocation or protection of the existing utility facilities not designated and identified on the Plans.

## 2. Protection of Existing Improvements

Existing improvements, utilities and adjacent property shall be protected from damage resulting from the Contractor's operation. All trees, shrubbery, fences, walls and other improvements, including existing pavements, sidewalks, street improvements and underground utilities and other improvements not shown on the Plans to be removed under this contract, shall be protected from damage by the Contractor throughout the construction period. The Contractor shall be liable for costs of repairing damage to existing improvements.

## 3. Maintaining Existing Electrical Facilities

All existing electroliers shall be maintained in operation until replacement electroliers are energized. All existing traffic signals shall be maintained in operation until replacement traffic signals are energized.

All traffic signal heads and pedestrian signal heads installed but not operational shall be entirely covered with burlap and securely tied to prevent exposure of signal head face to vehicular or pedestrian traffic.

## E. MAINTENANCE OF TRAFFIC

### 1. General Requirements

The Contractor shall provide for the safe passage of vehicular and pedestrian traffic through the construction area while meeting the requirements of these Special Provisions and as directed by the Engineer. All work shall meet the requirements of "Manual of Warning Signs, Lights and Devices for Use in Performance of Work on Highways" as well as Chapter 5, "Traffic Controls for Hiways Construction and Maintenance Operations" of the State of California, Department of Transportation Traffic Manual (1971). Copies of both are available for review in the City Traffic Engineer's office.

Maintenance of traffic shall be in accordance with Section 32-8 of the Standard Specifications

2. Traffic Control Devices

The Contractor shall furnish, install and maintain all temporary traffic control and warning signs, barricades, flagmen and other control and safety devices necessary to safeguard the general public within the construction area. The Contractor shall provide California standard traffic control signs for use in traffic control.

3. Maintenance of Traveled Ways

Two-Way traffic will be maintained on El Camino Avenue and Grove Avenue at all times. During construction at least two (2) ten foot (10') minimum wide traffic lanes one in each direction shall be maintained for each street.

4. Emergency and Private Access

Emergency vehicle access shall be available along all streets at all times within the construction area.

Vehicle access shall be provided to commercial businesses within the construction area from at least one direction at all times unless permission to interrupt access is given by the Engineer. Access to garages and driveways shall be maintained at all times except when concrete or asphalt are being placed or as directed by the Engineer. The Contractor shall give twenty-four (24) hours notice to residents whose driveway access will be closed to prevent vehicles from being stranded.

5. Payment

No separate payment shall be made for "Maintenance of Traffic". All costs shall be included in whatever item the Contractor deems appropriate.

F. PUBLIC SAFETY

1. General Requirements

The Contractor shall be responsible for the public safety at all times. He shall be responsible for safety devices, barricades and traffic control at the construction site.

The duty of the Engineer to conduct construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures in, on or near the construction site.

2. Restriction of Working Hours

Construction activities within the travelled way shall be restricted to the hours between 8:30 a.m. and 3:30 p.m. daily.

3. Notification of Property Owners

The Contractor will be responsible for notifying all property owners along the line of work twenty-four (24) hours in advance prior to commencing work in front of said property.

#### 4. Dust Control

The Contractor is responsible for the control of dust. He shall take any steps necessary or required by the Engineer to eliminate the nuisance caused by blowing dust. Dust control must be maintained on weekends and holidays in addition to normal working days.

No additional compensation will be paid to the Contractor for water used or for work performed in the control of dust. He shall include the cost in any item he deems appropriate.

#### G. RIGHT OF WAY ACQUISITION

No work shall be done on the southwest corner of El Camino Avenue and Grove Avenue until right of way has been acquired or by the written approval of the City Engineer. Acquisition of the right of way is expected to be September 16, 1980.

#### H. ORDER OF WORK

It is the intention of these Special Provisions to provide the orderly progression of work to cause the least amount of disruption and inconvenience to the pedestrian and vehicular traffic.

The first order of work shall be the installation of the new service and the temporary feed to the existing traffic signal system. This shall be done in coordination with the Sacramento Municipal Utility District.

The second order of work shall be the installation of the new traffic signal system and new controller.

The third order of work shall be the removal of the old traffic signal system after the turn on of the new traffic signal system.

The street work shall proceed so as to cause no interruption to the operating traffic signal system.

#### I. ITEMS OF THE PROPOSAL

##### Item No. 1 - Clearing and Grubbing

Clearing and Grubbing shall consist of removing all objectionable material from within the right of way or as directed by the Engineer. The area shall be cleared of all vegetable growth such as roots of down trees, brush, grass, weeds and all other objectionable material including concrete or masonry within the right of way or as directed by the Engineer.

All material shall be removed and disposed of away from the project site.

Payment shall be a lump sum and shall include full compensation for furnishing all labor, materials, tools equipment and incidentals and for doing all work involved in clearing and grubbing as shown on the plans and as directed by the Engineer including the removal and disposal of all the resulting material.

##### Item No. 2 - Asphalt Concrete Pavement to Construct

Asphalt concrete shall conform to the applicable requirements of Section 10 of the Standard Specifications. The four inch (4") thick pavement shall consist of two inch (2") base course and a two inch (2") surface course.

Paving asphalt shall be steam refined, viscosity Grade AR 4000, unless otherwise directed by the Engineer and shall conform to applicable portions of Section 92 of the California Department of Transportation's Standard Specifications.

Payment - The price per ton for asphalt concrete shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and doing all work involved in completing this item in place as shown on the plans, specified in the Standard Specifications, these Special Provisions and as directed by the Engineer.

Item No. 3 - Aggregate Base Class II to Place

Aggregate Base Class II shall be placed where shown on the Plans and as directed by the Engineer. Aggregate shall be three-quarter inch (3/4") maximum size. Class II in accordance with Section 10-7 of the Standard Specifications.

Payment at a unit price per ton shall constitute full compensation for all excavation, for furnishing all labor, material, tools, equipment, water and all incidental work necessary to construct the aggregate base complete in place.

Item No. 4 - Concrete Curb, Gutter and Sidewalk to Remove

Concrete Curb, Gutter and Sidewalk where shown on the Plans and as directed by the Engineer shall be sawed to a neat line where directed by the Engineer. The material to be removed shall be disposed of away from the project site.

Payment shall be at the unit price per square foot and shall constitute full compensation for sawcutting, removal, and disposal and all work incidental to completing this item.

Item No. 5 - 3½" P. C. Concrete Sidewalk to Construct

Portland Cement Concrete Sidewalk shall be constructed to the details shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Section 23 Standard Specifications.

Payment shall be per square foot of sidewalk complete in place and shall include cost of construction of handicap ramps.

Item No. 6 - Modified Curb and Gutter No. 4 to Construct

Portland Cement Concrete Modified Curb and Gutter No. 4 shall be constructed to the details shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 23 and 33 of Standard Specifications.

Payment shall be per lineal foot and shall be full compensation for construction of Modified Curb and Gutter No. 4 complete in place.

Item No. 7 - Trees to Remove

Trees to be removed are denoted on the Plans. Removal of the tree shall include removal of the stump and roots to a point three feet (3') below the proposed grade.

Payment for tree removal shall be at the unit price bid per tree and shall include disposal away from the site.

Item No. 8 - Installation and Modification of Traffic Signal and  
Street Lighting System at El Camino Avenue and Grove Avenue

1. Electrical Service

The electric service for the traffic signal and street lighting system will be from Sacramento Municipal Utility District facilities as shown on the Plans. Service Voltage will be 120/240 volts 3 wire.

One (1) new service pedestal will be required as shown on the Plans. The service pedestal shall consist of a removable metering section and a service section. Metering section shall be complete with SMUD approved meter socket, steel socket cover and manual circuit closing device.

The service pedestal shall be fabricated from 12 gage galvanized sheet steel in accordance with the dimensions shown on the Plans. The enclosure shall be rain tight and dust tight. All welds shall be ground smooth and finished so that grind marks are not visible. A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided in addition to a hinged outside door equipped with a draw latch suitable for padlocking.

After fabrication, the pedestal shall be steam cleaned with appropriate chemical solution to remove all oil film and rust. An iron phosphate shall then be steam applied to all metal surfaces. Care shall be exercised to produce a uniform fine grain crystalline structure so as to assure maximum cohesion to the finished coating.

After the iron phosphate application, an inhibitive rinse shall be spray applied immediately to seal and stabilize the surface formation. All metal surfaces must then be thoroughly dried prior to final coating. The final coating shall be applied within twenty-four (24) hours after preparation. It shall be composed of a one hundred percent (100%) solids thermosetting polyester applied electrostatically in powder form.

The finish coat on all interior surfaces shall be white in color, 2.5 mil minimum thickness. The finish coat on all exterior surfaces shall be 5 mil minimum thickness and the color shall equal to State of California Standard Specifications Color Chip 07, Ranch Green (State Specifications 691-80-450).

Mounted in the service pedestal shall be the following equipment:

- a. One 3 pole, 240 volt alternating current main breaker with 100 ampere trip and an asymmetrical interrupting rating of 10,000 amperes at 240 volt. Breaker shall be Westinghouse Quicklag C or approved equal.
- b. One single pole 120 volt 15 ampere trip 10,000 ampere asymmetrical interrupting capacity circuit breaker for control circuit. Westinghouse Quicklag C or approved equal.
- c. Two single pole 120 volt alternating current branch circuit breakers for traffic signals, each with 40 ampere trip and an asymmetrical interrupting rating of 10,000 amperes at 240 volt. Breakers shall be Westinghouse Quicklag C or approved equal.

- d. Six single pole 120 volt alternating current branch circuit breakers for street lighting, each with 40 ampere trip and an asymmetrical interrupting rating of 10,000 amperes at 240 volt. Breakers shall be Westinghouse Quicklag C or approved equal.
- e. Two 4 pole, 30 ampere, mechanically held, full rated lighting contactors with coil clearing contacts. Coil voltage shall be 120 volt 60 cycle. Contactors shall be as manufactured by Westinghouse Corporation or approved equal.
- f. One 10 ampere double pole double throw pilot relays (Potter and Brumfield KRP11AG or approved equal) with two (2) fully wired 8 point industrial sockets as shown on the Standard Plans.
- g. One oil tight "Hand-Off-Auto" selector switch.
- h. One copper solid neutral bus.
- i. One terminal block.

The service pedestal shall have provisions for up to a total of eight (8) branch circuit breakers for street lighting; four (4) branch circuit breakers for traffic signals and one (1) branch circuit breaker for the control circuit. This shall include brass links and mounting hardware. Branch circuit panel shall be a bussed panel using copper bus bars of 125 ampere capacity with bolt on circuit breakers bolting to the bus bars. Loop wiring will not be accepted.

On the dead front plate, reasonable size, black laminated plastic white center name plates identifying the control unit therein shall be installed.

The entire service pedestal shall be constructed with the highest quality workmanship and shall meet all applicable codes. Complete submittal drawings on all substitutions shall be submitted to the Engineer in accordance with Section 32-3 of the Standard Specifications. If the proposed substitute is rejected or if the submittal is not made within the specified time, the specified equipment shall be furnished.

The Contractor shall protect and lock the service pedestal during construction. The City of Sacramento will furnish its own padlock for the pedestal upon completion of the lighting system.

Street light "ON" and "OFF" control will be by photo-electric cell to be furnished by Sacramento Municipal Utility District. All conduits and wires for photo electric cell operation shall be furnished and installed by the Contractor.

## 2. Traffic Signal Controllers

All new controllers and appurtenances shall conform to all specifications as stated in Section 86 of the State Specifications dated January 1975 and these Special Provisions. One (1) new controller shall be provided.

Controllers shall be Type 90. The Type 90 controller shall be modular completely wired and equipped for 8 phase operation.

The controller shall be supplied with a 8 phase system frame.



The controller unit may be equipped with a feature (Guaranteed Passage Time) to extend the green interval for a length of time equal to the difference between the reduced gap and the passage time. If this feature is provided it shall be capable of being omitted without internal circuit modifications.

All integrated circuits within the controller shall be mounted in sockets and they shall be removable without the use of tools.

The phase modules required are as follows:

<u>Phase</u>	<u>Phase Module Type</u>
1	S
2	DP
3	DP
4	DP
5	DP
6	S
7	S
8	S

The cabinets shall be wired to provide the pedestrian phases as shown on the Plans and listed herein.

The controller cabinet shall be Type R and shall have no terminations below fifteen inches (15") from the bottom.

Cabinet wiring and equipment shall be complete for eight (8) vehicle phases and four (4) pedestrian phases.

Sufficient load switches shall be provided for eight (8) vehicle traffic phases and four (4) pedestrian phases.

The flasher unit shall be capable of flashing a load of 30 amperes minimum.

The convenience receptacle shall have ground fault circuit interruption as defined by the Code. Circuit interruption shall occur on 6 milliamperes of ground fault current and shall not occur on less than 4 milliamperes of ground fault current.

No controller and appurtenances will be accepted without written approval of the Engineer. Approval will be done in accordance with Section 32-3 of the Standard Specifications.

The Contractor shall deliver the Type 90 controller and cabinet to the traffic signal shop at the City Corporation Yard for testing at least two (2) weeks prior to the installation at the intersection. If adjustment, modifications or repair to the controller is required, the Contractor shall accomplish this through the manufacturer or his representative.

After the controller is proven operative with respect to the Plans and these specifications, the Contractor shall allow two (2) additional weeks for testing at the traffic signal shop. After successful testing, the Contractor shall be required to transport the controller and cabinet to the job site for installation.

### 3. Detectors

An inductive loop detector consists of a conductor loop or groups of loops, lead-in cable, sensor unit and power supply shall be provided for the actuate phase.

Detectors shall conform where applicable to Section 86-04.05B of the State Standard Specifications dated January 1975. Sensor units shall be automatic tuning type with integral power supply, suited for installation external to the controller.

Vehicle detector sensor units shall be as follows:

Type One - Sarasota 2158, Traffic Data System Model LB-328, TransSensor 710 or approved equal.

Type Two - Sarasota 235T/MS or approved equal.

The following detector sensor units will be required to be supplied by the Contractor:

- 4 - Type One
- 4 - Type Two

The Type Two detectors shall be used for Phase 1 D 1, Phase 3 D 1, Phase 4 D 1 and Phase 6 D 1. They are to be used as delay detectors. The delay function shall be defeated when the attendant phase is being serviced.

The Contractor shall provide two (2) sensor units of each type he proposes to install on this project for testing and evaluation within thirty (30) days after award of the contract. Sensor units shall be delivered to:

Traffic Signal Division  
City Corporation Yard  
5730 24th Street  
Sacramento, California

The test sensor units will be returned to the Contractor after testing and evaluation. The Contractor shall not order additional project sensor units until testing and evaluation is completed and permission to order additional detectors is received from the Engineer.

Installation of detector loops shall be in accordance with the January 1975 State of California Standard Specifications and Standard Plan ES-54 entitled "Traffic Signal and Highway Lighting Installation Details, Detector" except the insulation resistance of the loop wires shall not be less than 300 megohms and there shall not be less than 3/4" of coal tar modified epoxy over the loop wires.

Slots for loop wires shall be blown clean before the installation of loop wires. After the loop wires are installed and insulation tested for required resistance, the fill materials shall be placed immediately to avoid contamination of the loop wires.

### 4. Traffic Signals and Appurtenances

- a. General - Traffic signals and appurtenances shall conform to Section 86 of the State Specifications. They shall be installed at locations called for on the Plans. Each mast arm mounted signal head shall be equipped with all twelve inch (12") diameter sections and backplate.

Each twelve inch (12") signal section except program visibility sections, shall contain a 1950 lumen, 120 volt, 150 watt, 6000 hour lamp with three inch (3") light center length. Each eight inch (8") signal section shall contain a 665 lumen, 120 volt, 69 watt, 8000 hour lamp with 2-7/16" light center length. Each incandescent pedestrian signal section shall contain a 1277 lumen 130 volt, 116 watt, 8000 hour lamp with 2-7/16" light center length.

Each program visibility signal section shall be equipped with a suitable lamp. Unless otherwise specified, signal mounting shall be in accordance with the mounting schedule shown on the Plans. All terminal compartments shall be of the bronze type.

- b. Traffic Signal and Lighting Standards - Traffic signal and lighting standards shall be of the type called for on the Plans. The length of traffic signal mast arms shall be as called for on the Plans. The length of luminaire mast arms shall be as called for on the Plans. All mast arm standards shall be supplied with galvanized or approved cast aluminum two (2) piece base covers. All standards to be furnished shall be galvanized.
- c. Back Plates - The Contractor shall furnish and install backplates on all traffic signal heads furnished.
- d. Pedestrian Signals - Pedestrian Signal Faces shall conform to the provisions in Section 86-4.05, "Pedestrian Signal Faces" of the State of California Department of Transportation dated January 1978 and these Special Provisions.

Pedestrian signals shall be Type F1. Type F1 signals shall conform to the provisions in Section 86-4.01 "Vehicle Signal Faces" with the following exceptions:

- 1) Each signal face shall consist of two (2) sections arranged vertically. The upper section shall display the message "DON'T WALK" and the lower section shall display the message "WALK." Minimum letter height shall be four and one-half inches (4½").
- 2) The housing for each Type F1 signal shall be cast aluminum 16" ± in height by 17" ± in width.
- 3) Overall brightness for the "DON'T WALK" message of the Type F1 signal shall be a minimum of 175 foot-lamberts and for the "WALK" message it shall be a minimum of 180 foot-lamberts. The maximum to minimum brightness ratio between letters on each message shall not exceed 4:1.

Brightness readings will be taken with a brightness meter with a filter correcting it to human eye response and having an acceptance angle of one degree (10). For each measurement the meter will be located at the minimum distance from the message plate that results in the message or the letter being enclosed within the acceptance angle of the meter. Input voltage to the signal during the readings shall be 120 volts ± 1/2 volt.

- 4) Type F1 signals shall use standard traffic signal lamps. Maximum wattage for a Type F1 signal shall be 116 watts.

The type of pedestrian signal supplied shall be approved by the State of California Department of Transportation and shall be certified as to meeting these specifications prior to acceptance by the City.

Each pedestrian signal shall be provided with a hood and eggcrate type sun visor.

- e. Pedestrian Pushbuttons - The pedestrian pushbuttons shall conform to Section 86-5.02 "Pedestrian Pushbuttons" of the State Specifications and these Special Provisions.

The pedestrian pushbuttons shall be micro switch type pushbuttons in heavy cast aluminum housings. The instruction signs shall be a minimum 20 gage enameled steel 5" x 7-3/4" and shall read: "To Cross Street Push Button - Wait for Walk Signal."

- f. Programmed Visibility Vehicular Traffic Signal Heads - Programmed Visibility Traffic Signal Heads shall conform to the provisions in Section 86 of the State Specifications.

Lamps shall be furnished by the Contractor.

The Contractor shall provide sufficient quantities of optical masking tape as specified by the manufacturer of the signal heads, to mask the programmed visibility traffic signal heads.

When requested by the Engineer, the Contractor shall provide a truck with attachments capable of safely hoisting a man to a height of twenty-five feet (25') above the roadway. Masking of the programmed visibility traffic signal heads will be done by the Engineer.

## 5. Luminaires

Mast arm mounted high pressure sodium luminaires to be furnished and installed shall be of the integral ballast type, equipped with regulator type ballasts having a 10%  $\pm$  voltage regulation suitable for 200 watt high pressure sodium lamps on 120 volt circuits. There shall be electrical isolation between the copper primary and secondary windings of the ballast. Luminaires shall be designed to produce asymmetric distributions conforming to Illuminating Engineering Society light pattern Type III. The units shall be suitable for two inch (2") slipfitter end mounting.

Luminaires shall be General Electric M-400A, Westinghouse OV-25, TU-DOR or approved equal with either tempered glass or acrylic refractors. The ballast of each luminaire shall be mounted on the removable ballast compartment door.

Prior to City acceptance of a fixture for installation, Contractor shall submit to the Engineer for approval information on the fixture and its ballast as per Section 32-3 of the Standard Specification. Information on the ballast shall include but not be limited to the following:

Regulation Furnish ballast electrical data and lamp operating volt-watt graph for nominal, + 10% and - 10% of rated line voltage for the rated life of the lamp to verify ballast performance and compliance with lamp specifications.

For nominal and through rated lamp life, the lamp wattage spread shall not exceed 18% for  $\pm$  10% line voltage variation.

Power Factor Furnish test data to indicate that the power factor of the lamp-ballast system shall not drop below 90% throughout lamp life, for nominal to end of rated lamp life, for  $\pm$  10% line voltage variation.

Capacitor Variance Ballast design shall be such that normal manufacturing tolerance for capacitors of  $\pm 6\%$  will not cause more than  $\pm 8\%$  variation in regulation throughout the rated lamp life for  $\pm 10\%$  line voltage variation.

Lamp Failure The ballast, including the lamp starting circuitry function, shall be capable of protecting itself against normal lamp failure modes. The ballast shall be capable of operation with an open or short circuit condition for extended periods of up to six (6) months without significant loss of ballast life based on average design life of 100,000 hours.

Lamps Each luminaire to be furnished shall be equipped with a clear, high pressure sodium lamp. The lamp base shall be mogul screw base. The 200 watt lamp shall conform to ANSI Specifications S66 with a nominal lamp voltage of 100 volts.

6. Excavating and Backfilling

Excavating and Backfilling shall be in accordance with Section 32-6 of the Standard Specifications and these Special Provisions.

7. Foundations

Shall be in accordance with Section 32-7 of the Standard Specifications.

8. Conduits

Conduits to be installed shall be either rigid steel conduit or Schedule 40 polyvinyl chloride conduit. Contractor shall use the same type of conduit for the entire project.

Rigid steel conduit shall be mild steel, rigid hot dipped galvanized conduit as specified under Section 32-9 of the Standard Specifications.

Polyvinyl chloride conduit shall be ninety degrees (90°) C rated and listed by the Underwriter Laboratories. Conduit shall be fabricated from polyvinyl chloride and shall conform to NEMA Standards. It shall be in conformity with Article 347 of the National Electrical Code. Conduit, fittings and cement shall be produced by the same manufacturer who shall have a least five (5) years experience in manufacturing the product.

Material shall have a minimum tensile strength of 7000 psi at 73.4° F, flexural strength of at least 11,000 psi and a minimum compressive strength of 8600 psi. All joints shall be solvent welded in accordance with manufacturer's recommendations.

Installation of conduit shall be in accordance with Section 32-9 of the Standard Specifications, except the bending of PVC conduit shall be by a hot box bender, and in lieu of jacking or boring, PVC conduit shall be installed by the drill rod method in which a drill rod is first installed and the PVC is pulled into the cavity made by the drilling rod as the rod is removed.

Existing rigid galvanized steel conduit to be intercepted and extended shall be extended with hot dipped galvanized rigid steel conduit of like size.

The conduit to be provided for the service conductors from the base of the SMUD pole and the service pull box shall be Schedule 40 PVC.

9. Conductors and Wiring

Conductors and Wiring shall be in accordance with Sections 32-10 and 32-11 of the Standard Specifications, respectively, except insulation of Type UF, Type THW or Type THWN conforming to appropriate articles of the 1978 National Electrical Code are also approved.

10. Bonding and Grounding

Bonding and Grounding shall be in accordance with Section 32-12 of the Standard Specifications. There shall be a grounding conductor in each non-metallic conduit and all accessible metallic surfaces shall be grounded with a continuous grounding conductor back to the service ground. The grounding conductor shall be of solid copper, insulated with TW, THW or THWN green color insulation and of the size called for on the Plans. Minimum size of grounding conductor shall be No. 10 AWG.

11. Pull Boxes

Pull Boxes shall be in accordance with Section 32-13 of Standard Specifications.

12. Painting

Unless otherwise specified, all new metal parts, posts, steel poles, pedestals and fittings with the exception of the luminaires, galvanized standards and the rigid galvanized conduits and fittings, shall receive in the shop two (2) primer coats on all inside and outside surfaces before delivery to the site for erection. The application of the primer coats shall be done in the following manner:

- a. All metal surfaces shall be cleaned of all rust, scale, grease and dirt.
- b. All base metal and rusted surfaces to be painted shall be treated with a freshly prepared solution of phosphoric acid conforming to Federal Specifications MIL-C-15328A. The solution shall be applied by means of a brush. After drying twenty (20) minutes the metal surfaces shall be rinsed with water. Painting shall begin within twenty-four (24) hours after applying the diluent.
- c. Following the above treatment and prior to installation or erection in the field, all metal surfaces to be painted shall receive two (2) primer coats on all inside and outside surfaces. The primer coats shall be of alkyd base, exterior red oxide metal primer equal to Sherwin Williams E61RY21. Application of primer to the pole shall be by dip process.

If approved prime coats have been applied by the manufacturer and the coats are in good condition, an application of primer by the Contractor other than for repairs will not be required.

After the standards, pedestals, cabinets and signal equipment are installed and the conductors are in place, all exterior surfaces shall be examined for damaged primer. All damaged surfaces shall be given a spot coat of primer.

After the primer is examined and all spot coats are applied, the Contractor shall apply the finish paint.

Finish painting of galvanized standards will not be required.

Except for the galvanized standards, all exterior surfaces of equipment supplied including all existing equipment to be reused or shown on the Plans and listed in the facilities portion of the "Finish Paint Schedule" shall receive two (2) brush coats of finished paint as shown in the "Finish Coat Schedule."

Painting of outside of signal heads and other signal equipment which have been factor enameled in specified color and are in good condition, as determined by the Engineer, will not be required. Painting of galvanized street lighting and traffic signal standards will not be required.

3. Finish Paint Schedule

<u>Facilities</u>	<u>Paint</u>
a. Street Lighting Standards	<u>First Coat</u>
Service Can and Pedestals	Sherwin-Williams Company's Catalog No. E61GY8 Electrolier Primer Green or Approved Equal
Traffic Signal Standards and Combination Signal and Light Standards including Mast Arms and Brackets	<u>Second Coat</u>
	Sherwin-Williams Company's Electrolier Green Kem Lustral Enamel or Approved Equal
b. Signal Heads, Exterior of Hoods & Backface of Backplate	<u>First and Second Coats</u>
	Enamel, Traffic Signal, Dark Olive Green California State Specifications 8010-41B-14
c. Interior of Hoods, Louvers and Front Face of Backplate	<u>First and Second Coats</u>
	Traffic Signal Lusterless, Black Enamel California State Specifications 8010-61J-13
d. Controller Cabinets Type R	<u>First and Second Coats</u>
	Aluminum Paint, Finish Coat California State Specifications 8010-61J-45

The Contractor shall allow the first coat to dry at least twelve (12) hours before applying second coat.

The final coat shall show an even solid color. If any scratches are found on the equipment during the final inspection, the Contractor shall give such equipment a third coat of paint. This third coat shall not be a spot coat, but will be for the entire piece of equipment. All paint shall be applied by brush without thinning and all material must be supplied in the original sealed containers. The field painting of standards, pedestals, cabinets and signal equipment shall not be started unless they are absolutely dried and free of dirt, oil, grease and all other foreign substances.

The application of the final coat shall not be done at nights or on weekends or on holidays. Finish coats shall be applied on regular working days between the hours of 8:00 a.m. and 5:00 p.m. The Contractor shall notify the Engineer at least twenty-four (24) hours in advance of final painting.

14. Field Test and Inspection

Field Test and Inspection shall be in accordance with Sections 32-15 and 32-16 of the Standard Specifications.

15. Traffic Signal Controller and Intersection Turn On

Prior to the initial traffic signal intersection turn on, the Contractor shall perform the following functional tests in the presence of the Engineer.

- a. All vehicular and pedestrian indications shall individually be turned on momentarily and proper operation and phasing shall be checked.
- b. All vehicular and pedestrian signal heads shall be properly adjusted and covered.

If any system component or circuit does not operate properly it shall be repaired and retested prior to traffic signal intersection turn on.

After the successful completion of all tests, the Contractor shall request through the Engineer a time and date for turn on.

Traffic signal intersection turn on may occur only between the hours of 9:00 a.m. and 3:00 p.m. on Tuesday, Wednesday or Thursday on a week with no scheduled holidays. The Contractor shall give the Engineer at least five (5) working days notice prior to the traffic signal intersection turn on.

The intersection turn on date shall be at the discretion of the Engineer. The Contractor shall arrange to have a signal technician qualified to work on the controller and employed by the controller manufacturer or his representative present at the time of traffic signal intersection turn on.

In addition, the Contractor shall provide sufficient personnel and equipment for the timely completion of the traffic signal intersection turn on. If in the opinion of the Engineer, the Contractor has not provided sufficient personnel and equipment, the Engineer at his discretion, may postpone the traffic signal turn on until such time as sufficient personnel and equipment are provided.

16. Functional Test

A functional test shall be made on the new controller after installation. The Contractor shall schedule the test upon the approval of the Engineer.

Prior to the functional test, Contractor shall first determine that all equipment as shown on the Plans or called for under these specifications are installed and operable.

The functional test shall not begin on a Friday or on the day preceding a legal holiday. The test shall be made between 9:00 a.m. and 2:00 p.m. by the Contractor in conjunction with the service engineer of the controller manufacturer, in the presence of the Engineer and representatives of the City Traffic Engineering Division and Traffic Signal Maintenance Division.



Included as a part of the functional test is the continuous satisfactory operation of each signal system for a period of not less than five (5) days. During the five (5) days test period, the Contractor and the authorized service engineer of the controller manufacturer shall be available at the job site within four (4) hours after notification to correct any malfunction which might develop in the signal system or the controller.

Cost of this service will be considered as included in the lump sum bid price of the traffic signal system and no additional compensation will be allowed therefor.

Payment

Payment shall be at the contract lump sum price bid for construction of the traffic signal and street lighting system and shall include full compensation for furnishing all labor, materials, tools and equipment and for doing all work necessary to complete in place

Installation and Modification of Traffic Signal and  
Street Lighting Systems at El Camino Avenue and Grove Avenue

in accordance with the Plans, Specifications and these Special Provisions and as directed by the Engineer.