

CONTRACT DOCUMENTS
AND
STANDARD SPECIFICATION SUPPLEMENT

PUBLIC WORKS DEPARTMENT

City of Anaheim
California

REVISED 7/01/15

MASTER
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INSTRUCTIONS TO BIDDERS

General Information

ELECTRONIC proposals, including all documents required to be submitted with the bid, will be received at the office of the Anaheim City Clerk of said City until the date and time specified in the legal notice or addendum to the project documents, whichever occurs latest, for the construction of work described in the project documents or said legal notice. The ELECTRONIC proposals will be opened and publicly read by the City Clerk and City Engineer, or their respective designees, in the Council Chambers, or other designated location, at the City of Anaheim, California, shortly after the bid opening day and time.

In addition to the “ELECTRONIC” uploading of Proposal Documents described in the ‘INVITATION TO BIDDERS’, the fully executed **original Bid Bond** shall be delivered to the Anaheim City Clerk on or before the actual bid opening day and time.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

No contractor or subcontractor may be listed on a bid proposal for a Public Works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

No contractor or subcontractor may be awarded a contract for public work on a Public Works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

Proposal

All documents included in the Proposal Packet must be submitted on the unaltered forms obtained, via download from the City’s on-line bidding software. All entries on the Proposal must be in ink, or typewritten. If an individual submits the proposal, his or her name and post office address must be shown. If submitted by a corporation, the proposal must show the names, titles, and business addresses of the president, secretary, and treasurer, and be sealed with the corporate seal. Anyone signing a proposal as the agent of another, or others, must file with it legal evidence of his or her authority to do so.

The **Proposal** packet, as detailed in ‘INVITATION TO BIDDERS’ shall be “uploaded to the City’s ELECTRONIC” bidding software and the **line item costs** shall be input on-line in the bidding software on or before the day and hour set for the opening of bids. The original copy of the **Bid Bond forms** shall be delivered to the office of the City Clerk of the City of Anaheim, California, and shall be enclosed in a sealed envelope addressed to the City Council of the City of Anaheim, California, bearing the name and address of the bidder and the name and account number of the project on or before the actual bid opening day and time.

Interpretation of Contract Documents

If any prospective bidder preparing a bid for the proposed contract is in doubt as to the intent or meaning of any part of the plans, specifications, or other proposed contract documents, he or she shall submit to the City or designee Engineer a written request for an interpretation thereof. The person submitting the request shall be responsible for its prompt delivery. Any interpretation of the proposed documents shall be made by addendum only, duly issued by the City, and a copy of each such addendum shall be made available, via download from the City's ELECTRONIC BIDDING software, to each potential bidder who has registered on-line to receive project updates. The City will not be responsible for any other explanation or interpretation of the proposed documents **nor will the City be responsible for the completeness of project documents obtained from other sources.**

After the contract has been awarded, contractor agrees in advance that any ambiguities not submitted to the Engineer pursuant to the above, shall be construed against the Contractor and in favor of the City.

BID SUBMISSION CHECKLIST

- 1. The Proposal includes all documents, as described in the INVITATION TO BIDDERS**, that are required to be electronically submitted with the bid. The Bid shall be received through the City's electronic bidding process until the date and time specified in the legal notice or addendum to the project documents, whichever occurs latest.
- 2. Line Item Values** shall be electronically inputted through the on-line bidding software and shall be received through the City's electronic bidding process until the date and time specified in the legal notice or addendum to the project documents, whichever occurs latest.
- 3. The fully executed original Bid Bond** shall be delivered to the Anaheim City Clerk until the date and time specified in the legal notice or addendum to the project documents, whichever occurs latest.

Follow bid submission checklist detailed above, otherwise the bid will be considered non-responsive.

(SAMPLE)
BID BOND

KNOW ALL BY THESE PRESENTS, that we, _____, as Principal, and _____, a corporation organized and existing under the laws of the State of _____ and whose principal office is located in the City of _____, as surety, are jointly and severally bound unto the CITY OF ANAHEIM of Orange County, California, in the sum of _____ DOLLARS (\$_____), lawful money of the United States of America to be paid to the said CITY OF ANAHEIM, for which payment well and truly to be made, we bind ourselves, our heirs, successors, executors, administrators and assigns, jointly and severally, by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas the Principal has submitted the accompanying bid dated _____, 20____, for the construction of _____ for the CITY OF ANAHEIM, Orange County, California.

NOW, THEREFORE, if the Principal shall not withdraw said bid within thirty (30) days after the opening of same, and shall within twenty-one (21) days after the agreement has been presented to him for execution enter into a written contract with the City in accordance with the bid as accepted, and if the Principal shall give the required bond with good and sufficient sureties, or sureties for the faithful performance and proper fulfillment of such contract and for the protection of laborers and materialmen, or in the event of the withdrawal of said bid within the periods specified, or the failure to enter into said contract and give said bond within the time specified if the Principal shall within sixty (60) days after request by the City, pay the City the difference between the amount specified in said bid and the amount for which the City may procure the required work and/or supplies if the latter amount be in excess of the former, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF the above-obligated parties have executed this instrument under their several seals this _____ day of _____, 20 _____, the name and corporate seal of each corporate party being affixed hereto and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

Two Witnesses (if individual)

ATTEST (if corporation)

Title

Corporate Seal
ATTEST

Corporate seal

PRINCIPAL

By _____

Title _____

Surety

By _____

Title

(SEAL)

FAITHFUL PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the City of Anaheim, a municipal corporation of the State of, California, in the County of Orange has awarded to _____, License No. _____ (hereinafter called "Principal"), a contract for _____, which said contract is hereby referred to and made a part hereof; 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, _____, as Principal, and _____ as Surety, are held and firmly bound unto the City of Anaheim, a municipal corporation (hereinafter called "City"), in the penal sum of _____ DOLLARS (\$_____), lawful money of the Unites States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, successors, executors, and administrators, jointly and severally, firmly by these presents.

The condition of this obligation is such that, if the above bounded 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 all the undertakings, terms, covenants, conditions and provisions 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 City, its officers, agents and employees, as therein stipulated, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by the City in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

The said Surety hereby stipulates and agrees that 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 way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alterations or additions to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF, three (3) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety herein named, on the _____ day of _____, 20 _____, the name and corporate seal 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 _____
President

By _____
Secretary

Surety

Attorney in Fact

CORPORATE ADDRESS OF SURETY:

Please note: All signatures must be notarized

APPROVED AS TO FORM:

MICHAEL R.W. HOUSTON
CITY ATTORNEY

By: _____

Date: _____

(SAMPLE)

LABOR AND MATERIAL BOND

Premium

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the City of Anaheim, a municipal corporation of Orange County, California, has awarded to _____, License No. _____ (hereinafter called "Principal"), a contract for _____, which said contract is hereby referred to and made a part hereof: and

WHEREAS, under the terms of said agreement, Principal is required before entering upon the performance of the work, to file a good and sufficient payment bond with the City of Anaheim to secure the claims to which reference is made in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California.

NOW, THEREFORE, said Principal and the undersigned as corporate Surety are held firmly bound unto the City of Anaheim and all contractors, subcontractors, laborers, materialmen and other persons employed in the performance of the aforesaid agreement and referred to in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California in the sum of _____ DOLLARS (\$_____), for materials furnished or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, that said Surety will pay the same in an amount not exceeding the amount hereinabove set forth, and also in case suit is brought upon this bond, will pay, in addition to the face amount thereof, costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by City in successfully enforcing such obligation, to be awarded and fixed by the court, and to be taxed as costs and to be included in the judgment therein rendered.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies and corporations entitled to file claims under Title 15 (commencing with Section 3082) of Title 4 of Division 3 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should the condition of this bond be fully performed, then this obligation shall become null and void, otherwise it shall be and remain in full force and effect.

The Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of said agreement or the specifications accompanying the same shall in any manner affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, three (3) identical counterparts of this instrument, each of each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety herein named, on the _____ day of _____, 20 _____, in the name and corporate seal 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 _____
President

By _____
Secretary

Surety

Attorney in Fact

CORPORATE ADDRESS OF SURETY:

APPROVED AS TO FORM:

MICHAEL R.W. HOUSTON
CITY ATTORNEY

By: _____

Date: _____

Please note: All signatures must be notarized

STANDARD SPECIFICATION SUPPLEMENT
2012 EDITION

The City of Anaheim has adopted the 2012 Edition and subsequent Supplements thereto, of the Standard Specifications for Public Works Construction by Public Works Standards, Inc., as its specification for public works construction projects. All work performed under this contract shall be performed in strict accordance with appropriate provisions of that publication, as designated in the Special Provisions, except as modified in the Standard Specification Supplement and the Special Provisions.

Copies of the SSPWC are available from:
BNI Publications, Inc.
990 Bark Center Drive, Suite E
Vista, CA 92081
Telephone (888) BNI-BOOK; (888) 264-2665
Website: www.bnibooks.com

The SSPWC set forth above will control the General Provisions and construction methods and materials for the contract, except as amended by the plans, special provisions, or other contract documents. The following provisions are intended to supplement the provisions of the SSPWC unless noted otherwise. The section numbers of these provisions coincide with the section numbers of the SSPWC. Only those sections that require additions, deletions, or revisions are included herein.

STANDARD SPECIFICATIONS SUPPLEMENT

SECTION 1 – Terms, Definitions, Abbreviations, Units of Measure, and Symbols

1-2 Terms and Definitions

The provisions of Section 1-2 of the Standard Specifications for Public Works Construction's General Provisions, hereafter referred to as General Provisions, are supplemented by the following:

City:	City of Anaheim
Agency:	City of Anaheim
Board:	City Council of the City of Anaheim
County:	Orange, CA
Engineer:	The City Engineer of the City of Anaheim or his authorized representative
Federal:	The United States of America

Completion of Work

The Completion of Work date shall be considered the date upon which all items of work are fully complete, excluding any and all landscape establishment and maintenance.

Final Completion Date

The Final Completion Date shall mean the date at which all work is completed, including any and all landscape establishment and maintenance.

Contract Documents

The Contract Documents shall be considered to also include the Instruction to Bidders, the Proposal, the Bid Bond, the Non-Collusion Affidavit, the Designation of Sub-Contractors, the Agreement which is prepared for execution by the City and the Contractor, Plans Specifications and Special Provisions, Standard Specification Supplement, Contract Bonds, Resolutions adopted by the City Council pertaining to the work, Insurance Policies and Certificates, and any Supplemental Written Agreements or Addenda amending or extending the scope of the work originally contemplated that may be required to complete the work in a substantial and acceptable manner.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

No contractor or subcontractor may be listed on a bid proposal for a Public Works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

No contractor or subcontractor may be awarded a contract for public work on a Public Works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

SECTION 2 – Scope and Control of the Work

2-1 Award and Execution of the Contract

The provisions of Section 2-1 of the General Provisions are supplemented by the following:

The award of contract, if it were awarded, will be made to the lowest responsible and qualified bidder whose proposal complies with all the prescribed requirements. Such award, if made, will be made within forty-five (45) days after the opening of the proposals and the bidder shall hold his proposal open to the City for said forty-five (45) day period. Until an award is made, the right will be reserved to reject any or all bids, and to waive technical errors or discrepancies, if to do so is deemed to best serve the interest of the City.

No contractor or subcontractor may be awarded a contract for public work on a Public Works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

No proposal will be considered from a Contractor that has not been issued a proposal form by the City of Anaheim.

In selecting the lowest responsible and qualified bidder, consideration will be given to the bidder's financial standing, his general competency for the performance of the work covered by the proposal and the size of previous jobs satisfactorily completed by him, as well as whether he has breached any terms of public works contracts he has entered into in the past. Bidders may be required to present satisfactory evidence that they have been regularly engaged in the business, or are reasonably familiar therewith, and that they are fully prepared with the necessary capital, materials and machinery to complete the work to be contracted for, to the satisfaction of the City Council. Each bidder must be prepared to furnish, at the time of opening bids, a certified copy of his financial statement.

Failure to execute the contract and file acceptable bonds, as specified in Section 2-4 and insurance certificates, as specified in Section 7-3, shall be just cause for the annulment of the award and the forfeiture of the bid bond. Transfers of contract, or of interest in contracts, are prohibited.

The Contractor shall possess any and all Contractor's or other business licenses required by law with respect to the work to be performed under this contract and shall certify to the City that they are properly licensed.

The Contractor shall promptly, and not later than the 21st calendar day after receipt of notice of award, deliver to the City the following fully executed documents:

Three (3) copies of this Agreement fully executed by the Contractor.

All "Insurance Requirements" constituting the insurance policies, endorsements and certificates of insurance to be provided by the Contractor, including, but not limited to: Public Liability, Property Damage and Workman's Compensation.

The "Faithful Performance Bond" to be provided by the Contractor.

The “Labor and Material Bond” to be provided by the Contractor.

Such contract documents, insurance requirements and bonds shall be collectively referred to as the “Contract, Insurance and Bond Documents”.

2-2 Assignment

The provisions of Section 2-2 of the General Provisions are supplemented by the following:

2-2.1 Notice to Proceed:

The Contractor agrees to commence the Work and related services provided for in the Contract Documents (hereinafter, the “Related Services”) herein immediately upon the receipt of a written Notice to Proceed from the City, to continue performance of the Work and Related Services in a diligent, workmanlike manner without interruption, and to complete the improvements on or before the dates for completion as set forth in these Special Provisions. Delivery by the City of an executed copy of the Agreement to the Contractor shall alternatively be deemed to constitute the Notice to Proceed, and shall occur when an executed copy of the Agreement is either delivered personally, or by overnight express courier, to the Contractor or its authorized agent or representative, or when a copy of the executed Agreement is faxed to the Contractor at its address as shown on the first page of the Agreement and thereafter deposited in the United States mail addressed to Contractor with the postage thereon fully prepaid.

Time is of the Essence

The Contractor acknowledges and agrees that time is of the essence in its completing the Project in the timely manner as set forth in the Contract Documents.

Failure to Deliver by Document Deadline Date

The Contractor further acknowledges and agrees that no Notice to Proceed with the work shall be effective as to the Contractor until such time as the City has received and approved said Contract, Insurance and Bond Documents. In the event said Contract, Insurance and Bond Documents are not received by the City on or before said Document Deadline Date, the Contractor agrees to the deduction of one (1) working day from the number of days available to achieve the Contract completion date set forth in this Section of these Special Provisions for every day of delay in receipt by the City of the Contract, Insurance and Bond Documents beyond the Document Deadline Date. Said deduction shall be in addition to any other remedy available to the City upon the Contractor’s failure to timely provide said Contract, Insurance and Bond Documents, including the right of the City to refuse to execute and deliver the Agreement or to take such other action as may be authorized by law. In the event said Contract, Insurance and Bond Documents are received by the City on or before the Document Deadline Date, the subsequent delivery of a fully executed copy of this agreement to the Contractor by the City shall be deemed an election by the City to exercise the deduction of working days to achieve the Contract Completion Dates without further notice to the Contractor being required.

2-3 Subcontracts

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

No contractor or subcontractor may be listed on a bid proposal for a Public Works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

No contractor or subcontractor may be awarded a contract for public work on a Public Works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

2-3.2 Self Performance

This Section is hereby modified as follows:

“The Contractor shall perform, with its own organization, Contract work amounting to at least thirty (30) percent of the Contract Price except that any designated “Specialty Items” may be performed by subcontract and the amount of any such “Specialty Items” so performed may be deducted from the Contract Price before computing the amount required to be performed by the Contractor with its own organization. “Specialty Items” will be identified by the City of Anaheim in the Bid or Proposal. Where an entire item is subcontracted, the value of work subcontracted will be based on the Contract Unit Price set forth in the Contractor’s bid documents. When a portion of an item is subcontracted, the value of work subcontracted will be based on the estimated percentage of the Contract Unit Price. This will be determined from information submitted by the Contractor, and subject to approval by the Engineer.

Before the work of any Subcontractor is started, the Contractor shall submit to the Engineer for approval a written statement showing the work to be subcontracted giving the name and business of each Subcontractor and description and value of each portion of the work to be so subcontracted.”

Contractor shall certify and provide proof that all subcontractors to be employed under this contract are properly registered with the Department of Industrial Relations as required by California Law. Documentable proof of proper registration with DESIGNATION OF SUB-CONTRACTORS FORM DULY COMPLETED are required to be submitted along with the bid proposal forms and failure to comply with this provision may be deemed sufficient to render the Contractor’s bid non-responsive.

2-5 Plans and Specifications

2-5.1 General

The provisions of Section 2-5.1 of the General Provisions shall be supplemented by the following:

Contractor acknowledges that he has satisfied himself as to the nature and location of the work, the general and local conditions, conditions of the site, availability of labor, electric power, water and the kind of surface and subsurface materials on the site, the kind of equipment needed, and

all other matters which may in any way effect the work or the cost. Any failure of the Contractor to acquaint himself with all the available information concerning conditions will not relieve him from responsibility for estimating and bidding properly the difficulties or cost of the work.

2-5.2 Precedence of Contract Documents

Delete the entire subsection and replace with the following:

If it appears that the work to be done or any matter relative thereto is not sufficiently detailed or explained in the plans, specifications and Special Provisions, the Contractor shall apply to the Engineer for such further explanation as may be necessary and shall conform to such explanation or interpretation as part of the Contract.

In the event of any discrepancy between any scaled dimensions on the plans and the figures written thereon, the figures shall be taken as correct.

The specifications, plans, Special Provisions and all supplemental contract documents are essential parts of the Contract and a requirement occurring in one is as binding as though occurring in all. If there should be any inconsistencies in the above documents the order of authority and control shall be as follows:

1. Special Provisions
2. Plans
3. Standard Details
4. City of Anaheim Standard Specifications
5. Reference Specifications

Inconsistencies in Standard Specifications, the order of authority and control shall be as follows:

Sections referenced in the Special Provisions
City of Anaheim Standard Specifications
Standard Specifications for Public Works Construction 2012 Edition and
subsequent Supplements thereto, of Standard Specifications
State of California, 2010 as referenced in Special Provisions.

2-5.4 As Built (Added)

The Contractor shall maintain a "Record" set of Drawings and Specifications on the job site at all times, including all executed addenda, change orders, and field orders. This set of "Record Drawings" shall be separate, clean, blue-line prints reserved for the purpose of showing a complete picture of the work actually constructed. These drawings shall be kept current with the construction and for the purpose of attaining a correct set of As-Built plans. All final locations determined in the field and any deviations from the Plans and Specifications shall be marked in red on this "Record" set of plans to show the As-Built conditions. Upon completion of all work, and before final payment, these "Record" drawings with all applicable As-Built notes shall be signed by the Contractor, dated, and returned to the Engineer for review and acceptance. Reviewed and accepted "Record" drawings are a condition for final acceptance.

2-6 Work to be done.

The following paragraph shall be added following paragraph one:

All work which is defective in its construction or deficient in any of the requirements of the Plans and Specifications, including but not limited to, conformance to the lines and grades shown on the plans or established by the Engineer, shall be remedied or removed and replaced by the Contractor in an acceptable manner at his own expense. No compensation will be allowed for any work done beyond the lines and grades shown on the Plans or established by the Engineer. Upon failure on the part of the Contractor to comply with any order of the Engineer made under the provisions of this article, the Engineer and City may cause the defective work to be remedied or removed and replaced at the expense of the Contractor.

2-9 Surveying

2-9.1 Permanent Survey Markers

Add the following after the first sentence:

Prior to the start of construction, the Contractor shall contact the City of Anaheim, City Surveyor at (714)-765-5284 to coordinate the transfer of existing bench marks and ties. City of Anaheim survey crews will transfer the benchmarks and ties.

2-10 Authority of the Board and the Engineer

The following sentence shall be added beneath the last paragraph:

No change shall be made to the approved Plans and Specifications, except as directed by the Engineer, in writing.

SECTION 3 – Changes in Work

3-2 Changes Initiated by the Agency

3-2.1 General

The first paragraph of Section 3-2.1 of the General Specifications shall be deleted.

3-2.2 Contract Unit Prices

3-2.2.1 General

The first sentence of Section 3-2.2.1 of the General Specifications shall be modified as follows:

If a change is ordered in an item of work covered by a Contract Unit Price an adjustment in payment will be made. This adjustment will be based upon the increase or decrease in quantity at the Contract Unit Price Bid.

The second and third paragraph of Section 3-2.2.1 of the General Specifications shall be deleted.

3-2.2.2 Increases of More Than 25 Percent.

Delete this entire section.

3-2.2.3 Decreases of More Than 25 Percent.

Delete this entire section.

3-3 Extra Work

3-3.2.2.3 Tool and Equipment Rental

The provisions of Section 3-3.2.2.3 of the General Provisions relating to “Tool and Equipment Rental” shall be deleted and replaced with the following:

Equipment rental rates shall be per Section 9, Sub-section 9-1.04D “Equipment Rental”, of Caltrans 2010 Standard Specifications, using the Caltrans current “Labor Surcharge and Equipment Rental Rates” at the time the Extra Work is being performed.

The link to the latest “Labor Surcharge and Equipment Rental Rates” is as follows:
<http://www.dot.ca.gov/hq/construc/equipmnt.html>

3-3.2.3 Markup

The provisions of Section 3-3.2.3 of the General Provisions relating to markup shall be deleted and replaced with the following:

a) Work by Contractor.

A markup of fifteen (15%) percent, covering all overhead and profits, shall be added to the Contractor’s costs as determined under 3-3.2.2 and shall constitute the Contractor’s only payment for all overhead of any type and profit on “extra work”. There is no compensation for bond costs associated with “extra work”.

b) Work by subcontractor.

When a subcontractor performs all or any part of the extra work, the markup established in 3-3.2.3(a) shall be applied to the subcontractor’s actual cost of such work, and shall constitute its only payment for all overhead of any type and profit. The Contractor shall receive an additional markup, not to exceed five (5%) percent, for all its overhead and profit on the “extra work” performed by the Subcontractor.

3-5 Disputed Work

The second sentence of Section 3-5 of the General Provisions shall be modified as follows:

Delete all reference to mediation/arbitration.

3-5.1 Claims and Disputes During Performance: (Added)

The following procedures and requirements shall apply and be fully complied with for any claim or dispute to be considered for payment as extra work:

Procedure:

The Contractor and the City shall make good-faith attempts to resolve any and all claims and disputes that may from time to time arise during the performance of the work of this contract. If the Contractor considers any Work required of them to be outside the requirements of the Contract, or if Contractor consider any instruction, meaning, requirement, ruling or decision of the City or its representative to be unauthorized or improper, Contractor shall, within seven (7) calendar days after such demand is made, or instructions given, file a written protest with the City Engineer stating clearly and in detail the objection and reason therefore. The Contractor shall nonetheless perform the

disputed work even though a written protest has been filed. If a written protest is not submitted within seven (7) calendar days of the date that Contractor's claim arose, the Contractor shall waive his right to further claim on the specific issue.

- A. If a written protest is filed, the City will review the Contractor's written protest and provide a decision. If the Contractor still considers Anaheim's requirement to be outside of the requirements of the Contract, Contractor shall notify the City, in writing, within seven (7) calendar days after receiving Anaheim's decisions that Contractor will submit formal claim. Any formal claim shall be submitted within thirty (30) calendar days of receiving Anaheim's initial decision. Contractor shall submit its claim and all arguments, justification, cost or estimate, schedule analysis, and detailed documentation supporting their position. Failure to furnish timely notification within seven (7) calendar days and all justifying documentation within thirty (30) calendar days will result in the Contractor waiving his right to submit the claim.
- B. Upon receipt of the Contractor's formal claim including all arguments, justification, cost or estimates, schedule analysis, and documentation supporting its position as previously described, the City Engineer or his representative will review the material submitted and any other available facts and within thirty (30) calendar days from receipt of the Contractor's claim, render a final determination.

Certification:

- A. With any formal claim, the Contractor shall submit a statement as follows:
 - 1. The claim is made in good faith
 - 2. Supporting data are accurate and complete to the best of the Contractor's knowledge and belief.
 - 3. The amount requested accurately reflects the Contract adjustment for which the Contractor believes the City is liable.
 - 4. If the Contractor is an individual, the certification shall be executed by that individual under penalty of perjury.
 - 5. If the Contractor is not an individual, the certification shall be executed by an officer or general partner of the Contractor having overall responsibility for the conduct of the Contractor's affairs under penalty of perjury.
 - 6. If a false claim is submitted, the Contractor will be subject to appropriate legal action.
- B. In regard to any claim or portion of a claim for Subcontractor work, the Contractor shall fully review said claim and certify said claim, under penalty of perjury, to have been made in good faith.
- C. Failure to furnish certification as required hereinbefore will result in Contractor's waiving its right to the subject claim.

- D. Nothing in this procedure shall deprive contractor of any rights or remedies required by state statute.

Claim Format

- A. The Contractor shall submit the claim justification in the following format:

Summary of claim merit and quantum plus clause under which the claim is made.

List of documents related to claim:

- a. Specifications
- b. Drawings
- c. Clarifications/Requests for information
- d. Schedules
- e. Other

Chronology of events and correspondence

Analysis of claim merit.

Analysis of claim cost.

Refusal by Contractor to Perform Requested Change Order or Disputed Work

Contractor acknowledges that all work associated with the original project scope as well as any work change ordered into this project is vital to the satisfactory completion of the project and its intended use or purpose. Furthermore, Contractor acknowledges that the consequences to Agency for refusing to proceed with work under the change order or disputed work provisions set forth herein will cause the Agency incalculable damage and that said damage could vary so widely that actual costs are inestimable and a monetary equivalent is not easily ascertainable. Therefore, Agency and Contractor agree that *Liquidated Damage in the amount of \$10,000 or 15% of the actual quote for the subject work, received from a replacement Contractor, whichever is greater*, will be assessed against the Contractor for refusing to diligently pursue and perform the requested change order and/or the disputed work associated with the dispute. The total liquidated damage assessment under this provision will be deducted by the Agency from monies due or becoming due to contractor, not excluding retention proceeds, for each refusal to proceed with work under the change order or disputed work provisions.

SECTION 4 – Control of Materials

4-1 Materials and Workmanship

4-1.1 General

After the second paragraph add the following:

The Contractor shall defend (at City's option), hold harmless, and indemnify the City of Anaheim, the Consultant Engineer, and City's officers, agents, employees, representatives, and volunteers from and against and from all claims and liability arising from damage and injury due to said defects. The Contractor shall make all repairs and replacements promptly upon receipt of written order from the Engineer. If the Contractor fails to make the repairs and replacements

promptly the City may do the work and the Contractor and his surety shall be liable to the City for the cost of the work.

4-1.4 Test of Materials

The provisions of Section 4-1.4 of the General Provisions shall be supplemented by the following:

Delete the portion of the third sentence of the first paragraph that refers to retesting and delete the entire fourth sentence of the first paragraph and replace it with:

The costs of all other tests, including the retesting of material or workmanship that fails to pass the first test, shall be paid for by the Contractor.

The cost of compaction retesting in excess of ten percent (10%) of the number of initial compaction tests required by the Engineer may be assessed to the Contractor at the City's discretion.

4-1.5 Certificate of Compliance

Insert the following after the first paragraph:

The Contractor shall submit Certificates of Compliance prior to the use of materials for which these specifications or the Special Provisions require that such a Certificate be furnished by the contractor. A Certificate of Compliance shall not relieve the Contractor of the responsibility of incorporating material in the work which conforms to the requirements of the Plans and Specifications and any such material not conforming to such requirements will be subject to rejection whether in place or not.

The City reserves the right to refuse to permit the use of materials on the basis of a Certificate of Compliance.

The form and disposition of the Certificate of Compliance shall be as directed by the Engineer.

4-1.6 Trade Names or Equals

The first paragraph of Section 4-1.6 is modified as follows:

Request for substitution shall be submitted within 10 days after award of contract.

SECTION 5 – Utilities

5-1 Location

The following is added to the Fourth paragraph of Section 5.1 in the General Provisions:

The failure of the California Department of Transportation to promptly or accurately identify the location of its subsurface installations, to either the City or the Contractor, shall not be the City's responsibility. The Contractor shall be responsible for locating these subsurface installations even though the California Department of Transportation has not accurately identified such installations. If no pay item is provided in the contract for this work, full compensation for such work shall be considered as included in the prices bid for other items of work.

Contractor further acknowledges that Government Code Section 4215 states in pertinent part that "...Nothing contained herein shall be deemed to require the public agency to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the site of the construction project can be inferred from the presence of other visible facilities such as buildings, meter and junction boxes, on or adjacent to the site of the construction;..."

5-1.1 Underground Service Alert (Added)

The Contractor will be required to contact Underground Service Alert and obtain an Identification Number. The notification must be made a minimum of two (2) working days prior to doing any excavation on this project.

The Identification Number must be given to the Engineer and/or Inspector prior to the start of any work on this project. If the Contractor fails to obtain this number, the City reserves the right to stop all work on the project. No additional compensation or extension or working days shall be allowed for this stoppage.

5-4 Relocation

Add the following at the end of the subsection:

Any facilities to be relocated by the Contractor, as indicated on the plans, shall be relocated in a workmanlike manner. All such work shall be done only at such times which are acceptable to the owner. The Contractor shall schedule his relocation work in cooperation with the owner and shall be responsible for any costs resulting from the Contractor's failure to do the work at times which are acceptable to the owner. The Contractor shall notify owners at least two (2) working days in advance of any work on any of their utilities.

5-5 Delays

In Section 5-5 of the General Provisions the last paragraph is deleted and the following submitted in its place:

If the Contractor sustains loss due to delays attributable to interferences, relocations, or alterations not covered by 5-1, or 3-3, it may submit a claim pursuant to 6-6.

5-7 Utility Connection (Added)

Upon installing utility connections to City owned facilities, the Contractor shall see that said utilities are put in the City's name.

SECTION 6 – Prosecution Progress and Acceptance of the Work

6-1 Construction Schedule and Commencement of the Work

6-1.1 Construction Schedule

The provisions of Section 6-1.1 of the General Provisions shall be supplemented by the following:

Insert the following after the first sentence in the paragraph:

The Contractor shall submit to the Engineer/Contract Administrator, within five (5) working days prior to the issuance of the Notice to Proceed, a detailed schedule for the items of works to be done.

The following paragraphs shall be added at the end of this subsection:

Prior to the commencement of construction, arrangements will be made by the City for a meeting between the Contractor, The Engineer, Utility Representatives, designers and others as may be involved with the project. The purpose of the meeting is to coordinate the activities of the Contractor within the limits of this contract, review utility conflicts, review scheduling, discuss construction methods and clarify inspection procedures.

The Contractor shall submit updated Progress Reports to the Engineer at monthly intervals after the date of the Notice to Proceed. The report shall include an updated Construction schedule. Any deviations from the original schedule shall be explained. Progress payments will be withheld pending receipt of any outstanding reports.

6-1.2 Commencement of the Work

The following paragraph shall be added at the end of this Sub-section:

In the event a Notice to Proceed has not been issued within ninety (90) days from the award of the Contract due to failure of the Contractor to submit the required documents, the Contract time shall commence on the 91st day after award and each day thereafter will be charged against the Contract time in accordance with Section 6-7.3.

6-2 Prosecution of the Work

The provisions of Section 6-2 shall be supplemented by the following:

Insert the following between paragraphs 1 and 2:

The Contractor, and any and all Subcontractors, shall limit all construction activity and operations to the new City Right-of-Way. The Contractor shall, prior to conducting work on any occupied property within the project area, confirm with the City's inspector the location of the City's right of way, and the extent of any applicable temporary construction easements, which serve as the permissible bounds of construction activity. No person, or construction activity, shall pass beyond or engage in any construction-related activity outside of the defined temporary construction easements, and the Contractor shall monitor its personnel, and the personnel of its subcontractors, to assure compliance with this provision. The prohibition on construction-related activity beyond the defined City Right of Way and Temporary Construction Easements includes work for the sidewalk, landscaping and slough walls, etc., and extends to prohibit storage of materials or vehicles, including parking or storage of vehicles of employees, and any utilization of private property for staging, storage, or any other purpose.

6-3 Suspension of the Work

6-3.1 General

The following is added to Section 6-3.1 of the General Provisions:

It is understood that the City may require temporary omissions and “leap frogging” of portions of the work at locations to be designated by the Engineer. All fill-in and “come back” required for those previously omitted areas or openings shall be completed at the direction of the Engineer and all costs are to be included in the various item of work and no additional payment shall be allowed therefore.

6-6 Delays and Extensions of Time

6-6.1 General

The provisions of Section 6-6.1 in the General Provisions shall be deleted and replaced with the following:

If delays are caused by unforeseen events beyond the control of the Contractor, such delays will entitle the Contractor to an extension of time as provided herein, but the Contractor will not be entitled to damages or additional payment due to such delays except as provided in 6-6.3 and 6-6.4.

No extension of time will be granted for a delay caused by the Contractor’s inability to obtain materials unless the Contractor furnishes to the Engineer documentary proof. The proof must be provided in a timely manner in accordance with the sequence of the Contractor’s operations and the approved construction schedule.

If delays beyond the Contractors control are caused solely by action or inaction by the City, such delays will entitle the Contractor to an extension of time as provided in 6-6.2.

6-6.2 Extensions of Time

Section 6-6.2 of the General Provisions is changed to be as follows:

Extensions of time, when granted, will be based upon the effect of delays to the critical path of the work. They will not be granted for non-controlling delays to minor portions of the work unless it can be shown through a Critical Path Method (CPM) schedule that such delays did or will delay the critical path of the work.

6-6.3 Payment for Delays

Section 6-6.3 of the General Provisions is changed to be as follows:

The Contractor will only be compensated for damages incurred due to delays for which the City is solely responsible, and which delays are unreasonable under the circumstances involved, and not within the contemplation of the parties. The damages recoverable by the Contractor are only those actual costs incurred by the Contractor due to the delay. The City will not be liable for damages which the Contractor could have avoided by any reasonable means, such as judicious handling of forces, equipment, or plant. The determination of what damages the Contractor could have avoided will be made by the Engineer.

6-6.4 Written Notice and Report

Section 6-6.4 of the General Provisions is changed to be as follows:

- (a) If the Contractor desires an extension of time, it shall file with the City a written time extension notice within three (3) days after the beginning of the delay. Time extensions related to the delay, shall be determined by the Engineer based on the impact on the critical path of the project.

Within fifteen (15) days of the Contractor's first time extension notice, the Contractor shall submit to the City a full and written detailed change order request, which fully documents the amount of time to be claimed. The change order for time extensions shall include an "impacted" schedule showing the effect of the claimed delay event on the critical path and contract completion dates. Any change order for extension of time shall fully document the Contractor's request for time extensions pursuant to the requirements of the contract documents. The Contractor's failure to submit the above described written change order request, to the City within eighteen (18) days of the original commencement of the delay, shall constitute a waiver of the Contractor's claim for a time extension.

- (b) If the Contractor desires a payment for delay as specified in 6-6.3, it shall file with the City a written notice of its intent to make a claim for such payment within three (3) days after the beginning of the delay.

Any payment for the delay will be as set forth in 6-6.3.

Additionally, within three (3) days after the beginning of the delay, the Contractor shall submit to the City a written notice containing a good faith estimate of the payment it will seek for each day of delay. If the Contractor cannot make a good faith estimate of the payment it will seek for each day of delay, it shall submit within three (3) days after the beginning of the delay a full explanation as to why it cannot make a good faith estimate of the payment it will seek for each day of delay.

If Contractor fails to submit a timely notice of its intent to claim payment for delay, or its notice with an estimate of the payment it will seek per day of delay, or its explanation why such estimate cannot be made, as required above, the Contractor expressly waives and releases the City from any and all damages caused by the delay.

6-7 Time of Completion

6-7.1.1 Overtime Inspection Costs (Added)

The Contractor is hereby notified that he/she is responsible for all overtime inspection costs incurred by the City for all work performed at the discretion of the Contractor outside normal working hours.

Authorized overtime work by the Contractor as part of this contract required by these Special Provisions or by City obtained permits or by other City Departments will not be subject to overtime inspection costs.

The Contractor will be notified in writing of all overtime inspection costs incurred by the City.

Payment for overtime inspection costs will be withheld from progress payments to the Contractor.

6-9 Liquidated Damages

The provisions of Section 6-9 of the General Provisions shall be modified to read as follows:

Failure of the Contractor to complete the work within the time allowed will result in damages being sustained by the City. Such damages are, and will continue to be, impracticable and difficult to determine. For each day in excess of the time specified for completion of the work (as adjusted by any Change Orders), the Contractor shall be liable to the City for the sum stated as liquidated damages in the special provisions.

Execution of the contract by the City and the Contractor shall constitute agreement:

- (a) That the sum stated in the Special Provisions as liquidated damages is the minimum amount of the costs and actual damage caused the City by failure of the Contractor to complete the work within the allotted time.
- (b) That such sum constitutes liquidated damages and shall not be construed as a penalty.
- (c) That such sum may be deducted from payments due the Contractor. Nothing contained in this provision or in the contract shall be construed to limit or defeat the right of the City to recover for any and all actual damages sustained as a result of the untimely completion of the work.

6-9.1 Final Submittals (Added)

The Contractor within thirty (30) Calendar days from the FINAL COMPLETION DATE, (as defined in Section 6-8) shall submit all outstanding certified payrolls, the final invoice, and any other outstanding documentation. In the event there are deficiencies in the documents submitted, the Contractor shall be responsible for correcting all deficiencies and providing complete and accurate documentation within fourteen (14) calendar days of the correction notice from the Engineer. Contractor also acknowledges and agrees that satisfactory submission of the final paper work is part of the labor on the work of improvement and that the labor on the project is not completed until such documentation obligations are satisfied.

Failure to comply with these provisions will result in assessment of Liquidated Damages in the amount of \$250.00 per day. The City will deduct the total amount of these Liquidated Damages from the Contractor's final progress payment or project retention monies without further notification to the Contractor.

Payment for conformance to the requirements of this section shall be deemed to be included in the price bid for the various items of work.

SECTION 7 – Responsibilities of the Contractor

7-1 The Contractor's Equipment and Facilities

7-1.1 General

7-1.2 Temporary Utility Services

Insert the following after the first paragraph:

The Contractor shall be responsible for payment of all billings for water and electrical service for the planting and maintenance of the landscaping of the various areas shown on the plans until such time as the City accepts the Landscaping and Irrigation Systems.

7-2 Labor

7-2.1 General

The first sentence of Section 7-2.1 of the General Provisions shall be supplemented as follows:

Add the words – “and employment of apprentices”.

7-2.2 Prevailing Wages

The first sentence of this Section shall be modified to read as follows:

In accordance with the provisions of Section 1773.2 of the Labor Code, copies of the current prevailing rate of per diem wages at the time of the Bid as determined by the Director of the Department of Industrial Relations (DIR) are available on the website as follows: (http://www.dir.ca.gov/dlsr/statistics_research.html).

The Federal Department of Labor will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes “helper” (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations.

7-2.3 Payroll Records

The following paragraph shall be added following the first paragraph:

The Contractor, and all subcontractors, suppliers and vendors, shall comply with all City, State, and Federal orders regarding affirmative action to ensure equal employment opportunities and fair employment practices. Failure to file any report due under said orders will result in suspension of progress payments.

The Prime Contractor shall be responsible for the submittal of bi-weekly certified payrolls for its own forces as well as all subcontractors.

Contractors and subcontractors on all Public Works projects will be required to submit certified payroll records (CPRs) to the Labor Commissioner unless excused from this requirement.

The Contractor and each of his subcontractors shall prepare payrolls on forms prescribed and in accordance with instructions furnished by the City. Within seven (7) days after the regular payment date of the payroll, the Contractor shall deliver to the City a certified and legible copy

of each payroll. Such payroll shall be stated under penalty of perjury to in accordance with the federal regulations made pursuant to the “Anti-Kick-Back Statute (41 U.S.C. Sec.51)”.

Such copies of payrolls shall be accompanied by substantial proof that all bills for services rendered and materials supplied have been duly paid for. The Contractor shall not carry on his payroll any person not employed by him. Employees of a subcontractor must be carried on the rules of the employing subcontractor.

Each Contractor or subcontractor shall preserve its weekly payroll records for a period of three (3) years from the date of the contract. The payroll records shall set out accurately and completely the name, address, social security number, occupational classification, and hourly wage rate of each employee, hours worked by him during the payroll period, and full weekly wages earned by him, any deductions made from such weekly wages and the actual weekly wages paid. Such payroll records shall be made available at all times for inspection by the City or its authorized representatives.

The Contractor agrees that, in case of underpayment of wages to any worker on the project under this contract by the Contractor or any subcontractor, the City shall withhold from the Contractor out of payments due, an amount sufficient to pay such worker the difference between the wages required to be paid under this contract and the wages actually paid such worker for the total number of hours worked and that the City may disburse such amount so withheld by it for and on account of the Contractor to the employee to whom such amount is due. The Contractor further agrees that the amount to be withheld pursuant to this paragraph may be in addition to the percentages to be retained by the City pursuant to other provisions of this contract.

The contractor shall provide unlimited access to the job site for all equal employment opportunity compliance officers.

7-2.4 Hours of Labor

7-3 Liability Insurance

The provisions of Section 7-3 of the General Provisions shall be modified to read as follows:

The agency shall be given thirty (30) days notice prior to cancellation or termination of required insurance policies.

The Contractor shall not commence work under this contract until he has obtained all insurance required hereunder with a company or companies acceptable to the City, nor shall the Contractor allow any subcontractor to commence work in his subcontract until all insurance required of the subcontractor has been obtained.

The provisions of Section 7-3 of the General Provisions relating to minimum insurance amounts shall be modified as follows:

The Insurance policy shall provide the following minimum limits:

Bodily injury including	\$1,000,000 each person
Accidental death	\$1,000,000 each accident
Property damage and	

Public liability	\$1,000,000 each person
(including coverage of	
vehicles used by the	\$1,000,000 each accident
Contractor on or off the premises)	\$1,000,000 property damage

Each of the above policies shall specify that it acts as the primary insurance and that no insurance held or owned by the designated additional insured shall be called upon to cover a loss under said policy.

7-5 Permits

Replace the entire first paragraph with the following:

Prior to start of any work the Contractor shall obtain the applicable City permits and make arrangements for City inspections. The City will issue the permits at no charge to the Contractor. The Contractor and all subcontractors shall each obtain a City business license, and shall be licensed in accordance with State Business and Professions Code. The contractor shall also obtain and pay for any and all other permits, licenses, inspections, certificates, or authorizations required by any governing body or entity.

It is understood by the bidder and Subcontractors that The City of Anaheim, per Anaheim Municipal Code Section 3.04.050, does impose upon the businesses, trades, professions, calling, and occupations specified in the code, license taxes in the amounts prescribed in the code. It is unlawful for any person to transact and carry on any business, trade, profession, calling, or occupation without first having procured a license from the City and then complying with any and all applicable provisions of the code. Contractor license fees shall be as prescribed by the Anaheim Municipal Code Section 3.24.010.

The Contractor shall obtain all necessary permits for the discharge or disposal of any ground or surface waters in accordance with the California Regional Water Quality Control Board Regulations.

7-6 The Contractor's Representative

The following paragraphs shall be added following the first paragraph:

The Contractor shall file with the Engineer the addresses and telephone numbers where he or his representative may be reached during hours when the work is not in progress, so that twenty-four (24) hour, seven (7) day a week contact can be maintained.

7-7 Cooperation and Collateral Work

Add the following paragraphs following the second paragraph:

The Contractor shall cooperate with property owners, various utility companies, and other interested parties within or adjacent to the limits of the work specified herein.

It shall be the responsibility of the Contractor to schedule his work and that of his subcontractors to produce a smooth flow of work in a competent manner. All Contractors on this project shall cooperate with each other scheduling their work.

7-8 Work Site Maintenance

7-8.1 Cleanup, Marking Removal and Dust Control

The second paragraph is amended as follows:

The Contractor shall perform all cleanup work (including the use of a motorized sweeper with vacuum to sweep and clean the street) at the end of each working day during the construction. The cost of all clean up shall be included in the price bid for the various items of work and no additional payment will be made for the cleanup measures.

The following shall be inserted after the first paragraph:

Materials and equipment shall be removed from the site as soon as they are no longer necessary. Before the final inspection, the site shall be cleared of equipment, unused materials, rubbish, and all markings placed by the Contractor, the City, Underground Service Alert (USA), or other agent(s)' markings necessary for the performance of various items of work. These markings shall include, but not limited to paint, stakes, and metal tags.

Before the final inspection, the site shall also be cleared of all detour traffic signs and equipment(s), including all detour signs posted or attached to power poles, street light structures, utility poles or structures, etc., all inclusive of the project. All detour traffic signs installed and posted by others and are not a part of the contracted work shall remain and shall be protected in place.

The last paragraph is amended as follows:

Failure of the Contractor to comply with the Engineer's cleanup orders, including removal of markings and associated detour signs and equipment(s) shall result in the assessment of liquidated damages in the amount of \$500 per day. It shall also result in an order by the City to suspend work until all areas impacted by the construction site have been cleaned and all conditions corrected, to the satisfaction of the Engineer or Inspector.

Payment for *Cleanup, Marking Removal and Dust Control* shall be included in the price bid for other various items of work and no additional compensation shall be allowed therefore.

7-8.2 Air Pollution Control

7-8.2.1 Smog Control

Extreme precautions shall be exercised by the Contractor to minimize the escaping of smoke into the air by either the machine or the burning of the pavement during the heater-planning process, in the event that the smoke problem becomes excessive, it may be necessary to add an additional blower system to reduce the problem. No additional compensation will be made for any necessary steps required to reduce the smoke.

7-8.4 Storage of Equipment and Materials in Public Streets

The number of days is amended to two (2) working days. In addition, the last paragraph is amended as follows:

All excess material from excavation not used shall be removed from the site within one (1) working day.

No equipment/material storage will be allowed within the project area during non-working hours for the duration of the construction. Unused equipment or material (including the displaced material) shall be removed and stored offsite (to a fenced and screened area) daily. Only equipment and materials to be used and installed on the next working day may be stored at the construction site.

Payment for conformance to the requirements of this section shall be deemed to be included in the price bid for the various items of work. No additional compensation will be allowed therefore.

7-8.5 Sanitary Sewers

7-8.5.1 General

The second to the last sentence of the first paragraph shall be replaced with the following:

All sewage flows shall be conveyed in closed conduits and disposed of in a sanitary sewer system, including pumping if required

The following shall be added to the last paragraph:

Full compensation for all work associated with maintaining sewage flow shall be included in the unit price bid for various items of work. No additional compensation will be allowed therefore.

7-8.6 Water Pollution Control

7-8.6.1 General

7-8.6.2 Best Management Practices (BMPs)

Sub-section 7-8.6.2 of the General Provisions shall be amended as follows:

WATER POLLUTION PREVENTION AND BEST MANAGEMENT PRACTICES (BMP'S)

Description – Construction activities at City construction sites (less than 1 acre) are currently governed by the City's NPDES Permit. In order to ensure that appropriate measures are taken to prevent construction related pollutants (dirt, and construction materials) from being washed, blown, tracked or otherwise carried, unintended and uncontrolled, offsite, the Permit requires conformance with Orange County's Construction Runoff Guidance Manual, found at:

<http://ocwatersheds.com/documents/bmp/constructionactivities>

City and Locally Funded Projects

If this project disturbs less than 1 acre of land or is related to routine maintenance of an existing linear facility, the project falls outside the coverage requirements of the General Construction Permit. Therefore a SWPPP is not required. However Permit requirements still prescribe that

appropriate BMPs shall be implemented in accordance with the Construction Runoff Guidance Manual. Therefore, the Contractor shall develop, implement and maintain an Erosion and Sediment Control Plan. This Plan shall use the construction plans as a basis for identifying the location and type of BMP that will be implemented on and off-site, based upon the anticipated construction activities, equipment and materials that will be used in the project, for review and approval by the Department of Public Works.

Since construction activities are highly variable throughout the phases and term of the project and may even include work not originally anticipated, the approved Erosion and Sediment Control Plan does not relieve the contractor from the responsibility to implement and maintain the appropriate BMPs, which may not have been identified, to prevent storm water pollution resulting from the at all times during the contract period.

State and Federally Funded Projects

If this project disturbs less than 1 acre of land or is related to routine maintenance of an existing linear facility, the project falls outside the coverage requirements of the General Construction Permit. Therefore a SWPPP is not required. However Permit requirements still prescribe that appropriate BMPs shall be implemented in accordance with the both the Construction Runoff Guidance Manual. Therefore, the Contractor shall develop, implement and maintain Water Pollution Control Program (WPCP), approved by the Department of Public Works and conforming with the requirements of Caltrans Specifications Section 7-1.10G, Water Pollution.

Since construction activities are highly variable throughout the phases and term of the project and may even include work not originally anticipated, the approved WPCP does not relieve the contractor from the responsibility to implement and maintain the appropriate BMPs, which may not have been identified, to prevent storm water pollution resulting from the at all times during the contract period.

The following shall apply to all projects regardless of the type of “Stormwater Plan” developed or funding source

The contractor shall routinely inspect the construction site, staging areas, and any impacted areas offsite to evaluate the applicability and effectiveness of the BMPs that are or should be in place. These inspections shall be conducted at a minimum, within 48 hours prior to anticipated storm events, during rainfall (if occurring during business hours) and after any storm event. The outcome of these inspections shall identify any deficiencies identified and corrective actions anticipated or taken and shall be documented by the contractor and made available to the City’s representative, the same day, upon request.

Payment to develop and maintain the Erosion and Sediment Control Plan, WPCP and all related or required BMPs shall be considered included in the contract unit price paid for other items of work and shall be considered incidental for accomplishing the work and no additional compensation will be allowed therefore.

Failure of the Contractor to comply with the Engineer’s requested corrective actions may result in an order to suspend work until the condition is corrected. No additional compensation will be allowed as a result of such suspension.

7-8.6.2.1 Catch Basin Labeling (Added)

On all catch basin construction, the following shall be stenciled on top of the curb at the catch basin:

NO DUMPING – DRAINS TO OCEAN

The lettering shall be three inch (3”) high and applied with black paint.

Payment for conformance to the requirements of this section shall be deemed to be included in the price bid for the various item of work and no additional compensation will be allowed therefore.

7-8.6.3 Storm Water Pollution Prevention Plan (SWPPP)

Add the following after the first paragraph:

The Contractor shall be responsible for complying with all requirements of the State NPDES General Construction Storm Water Permit (trigger for compliance currently set at disturbance of 1 acre or more of land) and for development and implementation of the Storm Water Pollution Prevention Plan (SWPPP), PRDs (Permit Registration Documents), and Monitoring Plan (MP) (only if Risk Level 2 or 3). The one exception to this responsibility is the uploading online of PRDs into State SMARTS, which is performed by City Staff. However, the contractor is responsible for providing – in a timely manner – PRDs and any other information required in order to complete these submittals as required by the General Construction Permit, and as may be required by the administering agency (e.g., Caltrans).

At the pre construction meeting, the Contractor is required to submit a SWPPP to the City that has been completed by a Qualified SWPPP Developer (QSD) along with PRDs. The Notice to Proceed will not be issued until the approval of SWPPP by the City and successful uploading of SWPPP and PRDs to SMARTS System by the City.

The Contractor shall be responsible for conducting all required monitoring inspections and shall file copies of the inspections and all other reports, certifications or records, as required by the SWPPP, with the Public Works Department. All fines levied against the City, as a result of the Contractor’s failure to comply with the requirements of the Permit, shall be the Contractor’s sole responsibility and will be withheld from monies due or becoming due to Contractor.

Submitting Annual Reports: Based on current General Construction Permit deadlines, the Contractor must submit all information to the City required for completion of the Annual Report, one (1) month prior to the deadline for Annual Report Submittal, thus allowing the City to review, request any missing information, and submit then through the SMARTS System.

Time extensions will not be allowed for any delays or suspension of work as a result of the Contractor’s noncompliance with the Permit or SWPPP.

Payment for complying with the Permit Provisions, completing the SWPPP, implementation of the SWPPP, providing the necessary information to the City for filing of Annual Reports and Notice of Termination, and any incidental work, shall be deemed to be included in the lump sum price bid for SWPPP.

All information related to the Final Reports (including the Annual Report, which must be

completed and submitted before the Final Report) must be submitted to the City within 30 days of substantial completion of the project, for the City to upload to the SMARTS System.

The contractor shall comply with the Permit and SWPPP requirements, such as implementation, modification, onsite maintenance, monitoring of SWPPP, submittal of required information or documentation for such forms, including but not limited to the NOI, weekly inspection reports, rain event reports, annual reports, NOT and any other SWPPP related forms as required by the Provisions of the General Construction Permit in effect, throughout the project.

In the case that the contractor fails to comply with the aforementioned requirements and deadlines set forth under this section, the City reserves the right to withhold progress payments, or if the final progress payment has been issued, withhold the release of retention monies remaining under the contract, until the contractor's full compliance, with all provisions satisfied.

7-9 Protection and Restoration of Existing Improvements

Delete the second paragraph and replace it with the following:

The Contractor shall relocate, repair, replace or re-establish all existing improvements within the project limits which are not designated for removal (e.g. curbs, gutters, sidewalks, driveways, fences, walls, irrigated systems, signs, utility installations, pavements, structures, landscaping, etc.) which are damaged or removed as a result of his operations or as required by the Plans and Specifications. Damaged or removed traffic signal detector loops and or irrigations systems shall be replaced or repaired and returned to service within seventy (72) hours, unless otherwise directed by the Engineer. Where existing traffic striping, pavement markings, and curb markings are damaged or the reflectivity reduced by the Contractor's operations, such striping or marking shall also be considered as existing improvements and the Contractor shall repaint or replace such improvements.

Relocations, repairs, replacements or re-establishments shall be at least equal to the existing improvements and shall match such improvements in finish and dimensions unless otherwise specified.

The last paragraph of this subsection is replaced with the following:

All costs to the Contractor for protecting, removing, restoring, relocating, repairing, replacing, re-establishing and/or supporting existing improvements shall be included in the Bid.

7-10 Public Convenience and Safety

Insert the following:

When construction occurs within a developed residential area and/or through a school site, the Contractor shall take all necessary precautions to protect the public, especially children, from the hazards of open excavations. Trenches shall either be covered or adequately fenced and lighted at night and on weekends or whenever operations are not in actual process.

Unusual conditions may arise on the work which will require that immediate and unusual provisions be made to protect the public from danger or loss or damage to life and property, due directly or indirectly to the prosecution of the work. It is part of the service required of the contractor to make such provisions and to furnish such protection.

The Contractor shall use such foresight and shall take such steps and precautions as his operations make necessary to protect the public from danger or damage, loss of life or property, which could result from the interruption or contamination of public water supply, irrigation or other public service or from the failure of partly completed work.

Whenever, in the opinion of the City, an emergency exists against which the Contractor has not taken sufficient precaution for the safety of the public or the protection of the utilities or of adjacent structures or property which may, in the opinion of the City, require immediate action in order to protect public or private or personnel or property interest or prevent likely loss of human life or damage on account of the operations under the contract, then and in that event the City may provide suitable protection to said interest by causing such work to be done and material to be furnished, as, in the opinion of the City, may seem reasonable and necessary.

The cost and expense of said labor and material together with the cost and expense of such repairs as may be deemed necessary shall be borne by the Contractor, and if he shall not pay said cost and expense upon presentation of the bills therefore, duly certified by the Engineer, then said cost and expense will be paid by the City and shall therefore be deducted from any amounts due, or which may become due to said Contractor. Failure of the City, however, to take such precautionary measure, shall not relieve the Contractor of his full responsibility for public safety.

The foregoing provisions are in addition to and not in limitation of any other rights or remedies available to the City.

7-10.1 Access

7-10.1.1 General

The following paragraphs shall be inserted after the second paragraph:

The Contractor shall prepare a permit application for street closure and shall attach two copies of the proposed traffic control signing, barricading, and/or detour routing. The permit application and accompanying attachments shall be submitted to the Engineer for review. Upon approval from the Engineer, a no-fee Street Closure Permit will be issued. No Street Closure, Lane Closure, Detour or other work requiring traffic control shall commence prior to issuance of said permit

The Contractor shall provide and install barricades, delineators, warning devices and construction signs in accordance with the current Caltrans Manual of Traffic Controls for Construction and Maintenance Work Zones, and maintain them in new or like new condition for the duration of the construction project, unless otherwise approved by the Engineer. During adverse weather or unusual traffic or working conditions, additional traffic devices shall be placed as directed by the Engineer.

The Contractor shall notify the Engineer a minimum of 5 working days prior to closing or restricting left-turn movements. A minimum of 48 hours prior to restricting left-turn movements and/or closing left-turn pockets, the Contractor shall post sign in advance of and in the area of

the closure or restriction. The signs, as a minimum, shall notify the public of the date(s) of the closure and the duration.

Judgment as to adequate or sufficient barricading and signing shall be that which is sufficient and adequate in the opinion of the Engineer.

The Contractor shall relocate, preserve and maintain the visibility of all existing signs within the project limits which affect the flow of traffic, as directed by the Engineer. Any signs which are damaged or found to be missing during the course of construction shall be replaced by the Contractor at his expense as directed by the Engineer. All other signs that interfere with the course of work and are not necessary for the safe flow of traffic will be removed and replaced by the City. Traffic control signs include Stop Signs, Speed Limit, Parking Restriction and other regulatory signs.

Payment for conformance to the requirements of this section shall be deemed to be included in the price bid for various item of work and no additional compensation will be allowed therefore.

7-10.1.1.1 Vehicular Access

Insert the following after the first paragraph:

Temporary AC shall be placed at all approaches to form a smooth transition between the street and drive approach. The Contractor shall maintain the temporary AC until such time the permanent pavement is constructed.

7-10.1.1.2 Pedestrian Access

Contractor is responsible in providing, developing and maintaining pedestrian access. Contractor shall route pedestrian access and shall be incorporated in the approved construction drawings; this pedestrian access route(s) shall be incorporated in both Phasing Plan (if project requires work to be installed/constructed in different phases) and Traffic Control Plans.

7-10.2 Work Area Traffic Control

7-10.2.1 General

Insert the following:

The Contractor shall notify the occupants of all affected properties at least forty eight (48) hours prior to any temporary obstruction of access. No overnight closure of any driveway will be allowed except as permitted by the Engineer.

The Contractor shall maintain reasonable access to all businesses and residents at all times.

At least one (1) twelve foot (12') wide traffic lane shall be provided for each direction of travel on all streets at all times, except as permitted by the Engineer. The traffic lanes shall be maintained on pavement, and shall remain unobstructed.

The Contractor shall install detour signs per approved Traffic Control Plans. Detour signs posted or attached to power poles, street light structures, utility poles or structures, etc., shall bear the Project Name and Contractor's Name written legibly on the back of each

sign posted or installed. At the completion of the project, these detour signs shall be cleared off the area and shall comply with all the provisions of Section 7-8.1.

Drive approaches shall be opened at the end of the normal recommended concrete curing time.

A minimum of seven (7) days prior to the start of construction, the Contractor shall install informational signs for the project, as directed by the Resident Engineer. As a minimum, the information on the sign shall include the following:

- a. Start date of construction
- b. Completion date
- c. Lane restrictions
- d. Information phone number (714) 765 5079

7-10.4 Safety

7-10.4.2 Safety Orders

Insert the following paragraph:

The Contractor shall comply with “Construction Safety Orders” of the State Division of Industrial Safety except where “Federal Safety and Health” regulations are more stringent, in which case such federal rules shall apply.

7-10.5.3 Steel Plate Covers

Insert the following after the first paragraph:

Excavations or trenching shall not be left open during non-working hours. They shall be backfilled, plated over with traffic bearing steel plates (when opened to traffic) or securely fenced and lighted with 6 foot high chain link fencing or equivalent, with temporary lighting as appropriate.

Open trenches that are required to be opened to traffic shall be backfilled, plated over with traffic bearing steel plates recessed, flush with adjacent roadway surfaces, unless otherwise directed by the Engineer. The Contractor shall comply with the following in installing the recessed trench plates:

- a. Provide a minimum 12” lap of steel plate on each side of trench to assure no slipping of plate or collapsing of trench wall. Where 12” lap cannot be met, engineering design is required and shall be approved by the City Engineer. Trench shoring including overlap must be based on shoring calculations.
- b. Steel plate must fit snug within the recessed area and installed to operate with minimum noise.
- c. The pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate.
- d. Multiple plates must be tack welded as needed to secure plates, 6” minimum.
- e. All plates must meet required traffic loads, and be skid-resistant. The Contractor shall be responsible for the appropriate selection and maintenance of the steel plates.
- f. Steel plates must be removed and permanent pavement shall be placed within fifteen (15) working days or as approved by the Engineer.

g. Advance warning signs “steel plates ahead” shall be placed.

7-13 Laws to be Observed

The following paragraph shall be added after paragraph one:

If a discrepancy or inconsistency is discovered in the plans, Drawing Specifications or contract for the work in relation to any such law, ordinance, regulation, order or decree, the contractor shall forthwith report the same to the Engineer in writing, otherwise the provisions of Section 2-5.1 shall govern.

SECTION 8 – Facilities for Agency Personnel

SECTION 9 – Measurement and Payment

9-3 Payment

9-3.1 General

The following paragraph shall be added at the end of the subsection:

Whenever the Contractor is required to perform work or furnish equipment, labor, tools and materials of any class of work contained in the plans and specifications for which no price is fixed in the proposal, it shall be understood that such work, equipment, labor, tools, and material shall be provided without extra charge, allowance, or direct payment of any kind. The cost of performing such work or furnishing such equipment, labor, tools, and materials shall be included in the unit bid prices in the proposal and no additional compensation will be made therefore.

9-3.2 Partial and Final Payment

The second paragraph is amended as follows:

On the workday following the designated closure date for preparation of progress estimates, the Contractor shall submit to the Engineer a written progress estimate based on the contract unit prices or as provided for as in Subsection 9-2 of the work that has been satisfactorily completed. The Engineer will review the estimate and approve it or notify the Contractor of any exceptions. The Engineer will determine and prepare the partial and final payments. If the Contractor fails to submit a written progress estimate, the Engineer will determine the quantity of work performed. No such progress estimate will be required, nor payment be made when the total number of working days is twenty-five (25) or less or when the value of the work totals less than \$500.00. Progress payment will, when properly completed as specified, be paid within thirty (30) calendar days of submittal, and it is understood that any delay in the preparation, approval and payment of these demands will not constitute a breach of contract on the City.

9-3.2.1 Progress Billings (Anaheim Resort Area Projects Only) (Added)

All progress billings are to be submitted by the Contractor to the Engineer by the 15th of each month. The Public Works Department will process billings received by the 15th of each month and payment will be made not later than the end of the following month. Progress billings received after the 15th of the month will be processed with the next progress billing.

The Contractor is hereby notified that this project is funded with funds other than Anaheim Resort Area (ARA) funds. As a result, two separate checks may be issued per progress payment. One check will be for the ARA portion of the work and the other check will be for the non-ARA work. The two checks may not be issued on the same date.

9-3.3 Delivered Materials

The text of this subsection shall be deleted and replaced with the following:
Materials and equipment delivered but not incorporated into the work will not be included in the estimates for progress payment.

PART 2 CONSTRUCTION MATERIALS

SECTION 200 Rock Materials

200-2 Untreated Base Materials

See Section 400-2

SECTION 203 Bituminous Materials

203-6 Asphalt Concrete

See Section 400-4

SECTION 208 Pipe Joint Types and Materials

208-1 General

Insert the following after the first sentence of the section:

Only the following types of joint materials will be permitted for vitrified clay pipe: “D” and “G”. All other provisions of this section apply.

PART 3 CONSTRUCTION METHODS

SECTION 300 Earthwork

The provisions of Section 300 of the Construction Methods shall be as supplemented and provided for in the project’s Special Provisions.

SECTION 301 Treated Soil, Subgrade Preparation and Placement of Base Materials

301-1.3 Relative Compaction

The provisions of Section 301-1.3 of the Construction Methods shall be modified as follows:

Within the width of the roadway the top six (6) inches of the subgrade material shall be compacted to a minimum relative compaction of 95%. In shoulder areas and the subgrade material upon which curb, gutter, driveway and sidewalk are to be placed, the sub-grade shall be compacted to a minimum relative compaction of 90%.

After compaction and trimming, the subgrade shall be firm, hard, and unyielding.

301-1.6 Adjustment of Manhole Frame and Cover Sets to Grade

The provisions of Section 301-1.6 of the Construction Methods are supplemented by the following:

Unless noted otherwise on the plans or in the Special Provisions, water valve boxes, manholes and survey monuments within the area to be paved or graded shall be set to finished grade in the manner herein specified and as indicated in the City of Anaheim Standard Details.

302-5.5 Distribution and Spreading

The provisions of Section 302-5.5 of the Construction Methods shall be amended per the following:

The final or surface layer of asphalt concrete shall not be placed until all on-site improvements, including all grading, and all off-site P.C.C. improvements are substantially complete, as determined by the Engineer.

Asphalt concrete of 61 mm (0.20 foot) thickness or less may be placed in one lift. Asphalt concrete of greater than 61 mm (0.20 foot) thickness shall be placed in a minimum of two lifts. When placed in two lifts, the compacted thickness of the final surface course of asphalt concrete shall not be greater than 61 mm (0.20 foot) or less than 30 mm (0.10 foot).

Fog Seal Coat

A fog seal coat shall be applied over all joint strips where asphalt constructed under this project abuts existing pavement and as directed by the Engineer. The fog seal coat shall conform to the provisions of Section 203.

Fog seal coat shall be an SS1 type asphaltic emulsion applied at a rate of 0.25 L/m² (0.05 gallons per square yard) or as determined by the Engineer. Payment for the fog seal coat shall be included in the unit price bid per ton for "Asphalt Concrete" and shall include full compensation for furnishing all labor, materials, tools, equipment and appurtenances necessary to do the work, complete in place, as shown on the plans, and as specified in the Specifications and Special Provisions and as directed by the Engineer. No additional compensation will be allowed therefore.

302-5.8 Manholes (and other structures)

The first paragraph of 302-5.8 is hereby changed to read as follows:

Sewer and storm drain structures, water valve boxes, survey monuments and electrical vaults extending above the new subgrade, profile surface or cold mill surface shall be removed by the Contractor to the new subgrade, profile surface or cold mill surface before placement of base

material or paving. The owners shall lower other structures. All debris and foreign material shall be removed per 301-1.6. The top of reset manholes and other structures shall meet the smoothness requirement as specified in 302-5.6.2.

303-5 Concrete Curbs, Walks, Gutters, Alley Intersections, Access Ramps, and Driveways

303-5.5.2 Curb

The last sentence of the second paragraph of Section 303-5.5.2 of the Construction Methods shall be modified as follows:

The name of the Contractor and the year in which the improvement is constructed shall not be stamped in the completed work.

SECTION 306 Underground Conduit Construction

The provisions of Section 306 of the construction Methods are supplemented by the following:

306-1 Open Trench Operations

306-1.1 Trench Excavation

306-1.1.6 Bracing Excavations

The last paragraph of the section shall be replaced with the following:

All material used for protection (including sheeting) shall be removed from the project unless it has been approved to remain in place by the Engineer.

306-1.1.7 Protection (Added)

This Section is added to include the following:

Any excavation greater than 305 mm (1') in depth but less than 0.9 m (3') which will be left open after the completion of the normal work day shall be protected by a fence or barricade. Any excavation over 0.9 m (3') in depth will be fenced.

Prior to the start of construction the Contractor shall submit to the Engineer, for approval, the method of protection to be used.

All excavations less than or equal to 305 mm (1') in depth which will be left open over night shall have material bladed up and compacted against all vertical cuts within 1.5 m (5') of the traveled way.

Payment for compliance with this section shall be deemed to be included in the price bid for the various items of work for which excavation is necessary. No additional compensation will be allowed therefore.

306-1.2 Installation of Pipe

306-1.2.1 Bedding

306-1.2.1.1 General

The second paragraph of this sub-section is amended as follows:

Bedding shall conform to the following provision of the Construction Methods and as shown on the plans:

The cost of providing and installing said bedding material shall be included in the price bid for pipe and no additional allowance will be made therefore. In any case, where rock bedding under the pipe is required by the Engineer for stabilizing unstable subgrade due to existing ground conditions (not attributable to Contractors' operations or methods), such rock bedding material shall be paid for at the job site delivered price.

306-1.2.3 Field Jointing of Clay Pipe

This section is amended as follows:

Type "G" joints shall be used on all mains and six inch (6") or larger laterals. Type "D" joints may be used on 4" laterals.

306-1.3 Backfill and Densification

The provisions of this section are supplemented by the following:

All backfill for pipe or conduit shall be densified to a relative compaction of 90% minimum by water densification, mechanical tampers or rollers or other mechanical means.

306-1.5.1 Temporary Resurfacing

The first sentence of the last paragraph is revised as follows:

Payment for temporary trench resurfacing shall be included in the various items of work and no additional payment will be allowed.

SECTION 307 – Street Lighting and Traffic Signal Systems

When applicable, the Traffic Engineering Specifications for Traffic Signals and Safety Lighting Facilities will be found at the end of this Standard Specification Supplement. This document shall replace "Section 307, Street Lighting and Traffic Signal Systems," of the Greenbook, Standard Specifications for Public Works Construction, Latest Edition.

Detectors

Traffic signal detection shall not be interrupted for a period longer than fourteen (14) calendar days. Any project, public or private, which renders the vehicle loop detectors inoperative during the course of construction activities, the CONTRACTOR shall replace the loops or install video detection capabilities at all effected project intersection(s) by the end of the fourteen (14) calendar days. The CONTRACTOR will be assessed "Liquidated Damages" in accordance with the Special Provisions for each additional day traffic signal detection is interrupted. Any proposed video detection system shall comply with the City Specifications and approved by the City Engineer, or his representative, prior to installation by the CONTRACTOR. Compensation for the loop detectors or video detection system shall be paid for the item of work, no additional compensation shall be allowed. The CONTRACTOR shall contact Traffic Systems Maintenance

Operations at 714-765-6908 seven (7) days prior to start of work to arrange for installation of video detection.

Inductive loop detectors and detector amplifier units shall conform to the provisions of Section 86-5.01, "Vehicle Detectors" of the State of California Department of Transportation (Caltrans) Standard Specifications and Standard Plans, 2010 Edition; City Standard Details except as amended herein and in the Traffic Engineering Specifications for Traffic Signals and Safety Lighting Facilities and Special Provisions.

The term "inductive loop detector" applies to a complete vehicle detection installation consisting of a conductor loop or group of loops installed in the roadway, steel conduit, pull boxes, lead-in cable (DLC), and detector (amplifier) unit and power supply installed in a traffic signal controller cabinet.

Inductive loop detectors shall be Type "E" and consist of three turns of type 2 loop wire. Preformed inductive loops shall not be used unless otherwise shown on the PLANS. Loop detector configuration and location shall be installed in accordance with City Standard Detail No. 410, and as shown on the plans. Loop detector layout shall be approved by the ENGINEER prior to installation by the CONTRACTOR. Header loops shall straddle the limit line or stop bar.

Loop detector lead-in cable shall be "Type B". All detector loop wires shall be joined as specified in Section 86-2.09C, "Connectors and Terminals," of the Standard Specifications or as approved by the ENGINEER. Splices in pull boxes shall be insulated as specified in Section 86-2.09E, "Splice Insulation," of the Standard Specifications. Each DLC shall be tagged with a plastic or aluminum label that specifies the phase. Each loop shall be identified in the pull box as to number and lane assignment. Tags will be furnished by the CONTRACTOR.

Loop conductors and sealant shall be installed on the same day as the loop slots are cut. All for filling slots shall conform to State Specifications. The sealant for filling slots in asphalt concrete shall be Hot-Melt Rubberized Asphalt Sealant. Elastomeric sealant shall be used only for filling slots in portland concrete.

Holes larger than 4-inches across left in the pavement due to loop installation shall be filled with asphalt concrete hot mix.

Where existing interconnect conduit is to be used for advanced/system loop detectors, the CONTRACTOR shall use extreme care not to damage the existing cables (i.e. twisted pair, fiber optic, sign control cable) when installing new lead-in cable. Any existing cable damaged by the CONTRACTOR shall be replaced at his/her expense.

All detector loops in a travel lane shall be series connected and all travel lanes shall be series connected up to a maximum of three (3) lanes per sensor unit, unless otherwise directed by the ENGINEER.

Detectors units shall be two channel, rack mounted, inductive loop type with external timing switches conforming to EDI Model #LM 602t, or approved equivalent. Detector unit power supplies shall be rack mounted. The power supply pin out configuration shall be identical to EDI Model #PS-175 (24 volt) power supply. All detector power supplies shall be interchangeable.

Unless otherwise provided for in the contract documents, compensation for installation of loop detectors shall be deemed to be included in the contract price bid for the item of work, and no additional payment will be made therefore.

SECTION 400 – Alternate Rock Products, Asphalt Concrete, Portland Cement Concrete and Untreated Base Material

Portland cement concrete shall meet the requirements of Section 400 and these Special Provisions.

For 2500 class concrete, a pre-qualified mix design may be used in accordance with the provisions of ACI 318-71, Section 4.2.2.1, in which $f'_{c=17}$ mpa (2500 psi).

The cement type requirement, Section 201-1.2.1, shall be Type II or Type V as determined by the Engineer. Type II or Type V cement shall conform to ASTM C 150 and the low alkali requirements of Table 2 therein.

The Cleanness Value requirement of Section 200-1.4 shall be replaced with the following:

<u>Tests</u>	<u>Test Method No.</u>	<u>Requirements</u>
Cleanness Value Individual Test	California 227	70 Min*
Moving Average		75 Min*

The sand equivalent requirement of Section 200-1.5.3 shall be replaced with the following:

<u>Tests</u>	<u>Test Method No.</u>	<u>Requirements</u>
Sand Equivalent Individual Test	California 217	70 Min*
Moving Average		75 Min*

* For 2500 or less class concrete, except concrete pavement, a minimum 65 Individual Test Result and a minimum 70 Moving Average will be acceptable if 17 mpa (2500 psi) 28-day strength criteria of Section 201-1.1.4 are met, at 150 mm (6”) slump or greater. The EMA Materials Laboratory will make the testing and acceptance determination. Evaluation of Sand Equivalent and Cleanness Value shall conform to the provisions of Subsection 400-1.1.3.

SECTION 400-2 – Untreated Base Materials

Base materials shall conform to the provisions of Section 400-2 of the Standard Specifications and the following supplement:

In lieu of the 2nd sentence of Section 200-2.4.1 at least 65%, by weight, of the material retained on the No. 4 sieve shall be a crushed particle as determined by Test Method No. California 205.

Evaluation of gradation and sand equivalent test results shall conform to the provisions of Subsection 400-2. The gradation and sand equivalent requirements of Subsections 200-2.2, 200-2.4, 200-2.5 and 200-2.6 shall be the moving average requirements.

Individual test requirements for gradation and sand equivalent shall be as determined by the Engineer.

SECTION 400-4 – Asphalt Concrete

Asphalt concrete shall conform to the provisions of Section 400-4 of the Standard Specifications and the following supplement:

Coarse aggregate shall consist of material of which at least 75% by weight shall be crushed particles in lieu of the requirements of Section 400-4.2.3.

The gradation of combined aggregate and the asphalt content shall be as follows:

Arterial Highways, Collector, and Interior Streets	Max
19 mm (3/4") (III-B2-PG 64-10) Base Course	5.7%
13 mm (1/2") (III-C3-PG 64-10) Base and Surface Course	6.0%

Surface course shall not consist of reclaimed asphalt pavement (RAP).

Base course shall be per SSPWC, 2012 Edition and any supplement therein.

Performance Graded (PG) asphalt binder shall conform with Section 92 of the State of California, Department of Transportation Standard Specifications (2010 Edition and subsequent supplements).