

County of Santa Barbara
Santa Barbara Courthouse Public Defender
Partial Roof Rehabilitation
1100 Anacapa Street, Santa Barbara, CA 93101

Construction Bid Package



Project No. 8722

MANDATORY JOB WALK:

February 16, 2016, 10 a.m.

Santa Barbara Historic Courthouse – Main Archway
1100 Anacapa Street
Santa Barbara, CA 93101

BID OPENING DATE:

February 25, 2016, 3 p.m.

Santa Barbara Historic Courthouse – East Wing (Old Jail)
1105 Santa Barbara Street, 2nd Floor
Santa Barbara, CA 93101

BID OPENING LOCATION:

County of Santa Barbara
General Services Department
Facilities Services Division
1105 Santa Barbara Street, 2nd Floor
Santa Barbara, California 93101

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By: Office of the County Architect

Dated: November 23, 2015

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BIDDING DOCUMENTS

NOTICE TO BIDDERS

Notice is hereby given that the General Services Department, County of Santa Barbara will receive bids for:

**COUNTY OF SANTA BARBARA,
SANTA BARBARA COURTHOUSE PUBLIC DEFENDER ROOF
1100 ANACAPA STREET, SANTA BARBARA, CA 93101
Project No. 8722**

MANDATORY JOB WALK:

February 16, 2016, 10 a.m.

Santa Barbara Historic Courthouse – Main Archway
1100 Anacapa Street
Santa Barbara, CA 93101

BID OPENING DATE:

February 25, 2016, 3 p.m.

Santa Barbara Historic Courthouse – East Wing (Old Jail)
1105 Santa Barbara Street, 2nd Floor
Santa Barbara, CA 93101

CONSTRUCTION COST ESTIMATE: **Seventy-Five Thousand (\$75,000) Dollars**

PROJECT LOCATION: 1100 Anacapa Street, Santa Barbara, CA 93101

MANDATORY JOB WALK: Will begin at the Main Archway of the Santa Barbara Courthouse located at 1100 Anacapa Street, Santa Barbara, CA at 10 a.m. Contractors must attend to qualify to submit a bid proposal.

PROJECT DESCRIPTION:

Area of Work: Area of work includes the roof section over the Courthouse Annex and Main Archway, refer to the Partial Roof Plan (sheet A2.0) for limits of work. The estimated roof area is 8,340 square feet, five (5) internal downspouts and an estimated 200 lineal feet (LF) of integrated eave gutter.

Scope of Work: Locate and clean existing integral gutters. Remove damaged sections of the gutter with same or similar materials for an estimated 100 LF of the estimated 200 LF then reconnect the lining to the downspouts. Clean the downspouts to daylight to insure proper function, replace or repair non-function downspout piping. Replace broken roof tile with new as required (estimated 500 square feet). The Courthouse Clock Tower Roof is not part of this scope of work.

CONTRACTOR'S LICENSE: The CONTRACTOR shall possess a **Class C-Roofing** License at the time this Contract is awarded.

BID DOCUMENTS: Please request plans, specs and, proposal forms for bidding this project from Leonetta Wagstaff, Project Assistant, via email to: wagstaff@countyofsb.org.

BID SUBMITTAL INSTRUCTIONS: Each bid shall be in accordance with the plans and specifications approved by the General Services Department. The bid shall be sealed and received at the General Services Department, Capital Projects Office at 1105 Anacapa Street, 2nd Floor, Santa Barbara, CA 93101, on or before **3:00 P.M.** at which time each bid may be opened.

SUBSTITUTION OF SECURITIES: Pursuant to Section 22300 of the Public Contract Code and the project specifications, the CONTRACTOR may substitute securities or request that the County make

payment of retentions to an escrow agent for any money held by the COUNTY to ensure contract performance.

PREVAILING WAGES AND DAVIS BACON: Pursuant to the provisions of Section 1770 et seq. of the California Labor Code, the CONTRACTOR shall pay not less than the prevailing rate of per diem wages as determined by the Director of the Department of Industrial Relations. A copy of the prevailing rate of per diem wages is on file at the General Services Department.

A portion of the funding for this contract comes from Recovery Zone Economic Development Bonds. Accordingly, the successful bidder shall comply with federal Davis-Bacon and Related Acts prevailing wage requirements, including without limitation those found at 29 CFR 5.5(a)(1) through (10).

- **No contractor or subcontractor may be listed on a bid proposal or awarded a contract for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].**
- **This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.**

WITHDRAWAL OF BIDS: The COUNTY reserves the right to reject any and or all bids or waive any informality in a bid. No bidder may withdraw his bid for a period of ninety (90) days after the date set for the opening thereof.

BID SELECTION: The lowest bid shall be determined on the basis of the sum of the base bid plus the result of the compensable delay rate times the multiplier.

CONSTRUCTION TIME: The successful CONTRACTOR (after receiving the Notice to Proceed) shall have **NINETY-DAYS (90)** calendar days to complete all work called for under the Contract Documents.

LIQUIDATED DAMAGES: The liquidated damages will be FIVE DOLLARS (\$500) per day for project delays that are determined to be attributable to the CONTRACTOR.

QUESTIONS: All contractual questions should be addressed to the Robert Ooley, FAIA, County Architect, General Services, 805.568.3070 or countyarchitect@co.santa-barbara.ca.us.

BID FORM

1. Pursuant to and in compliance with the Notice to Bidders and the Contract Documents relating to the construction of:

County of Santa Barbara
Santa Barbara Courthouse Public Defender Roof Rehabilitation
1100 Anacapa Street, Santa Barbara, CA 93101
Project No. 8722
Bid Date: February 25, 2016

including Addendum No(s). , , , , , , the undersigned bidder, having become thoroughly familiar with the terms and conditions of the Contract Documents and with local conditions affecting the performance and the costs of the WORK at the place where the Work is to be done, hereby proposes and agrees to fully perform the WORK within the time stated in and in strict accordance with the Contract Documents (including the furnishing of any and all labor, materials, tools, expendable equipment and utility and transportation services necessary to fully perform the work and complete it in a workmanlike manner) for the total sum of:

BASE BID:

2. LUMP SUM BASE BID

\$

 ,

 ,

 .

(Place figures in appropriate boxes.)

3. ALTERNATES

There are no Alternates in this Bid Request.

4. COMPENSABLE DELAYS

DAILY RATE OF COMPENSATION FOR COMPENSABLE DELAYS

Bidder shall determine and provide below the daily rate of compensation for any Compensable Delay determined to be solely caused by the County at any time during the performance of the Work:

\$

 ,

 .

1
(one) day Multiplier
(Place figures in appropriate boxes)

The County will perform the extension of the daily rate times the multiplier.

The daily rate shown above will be the total amount of CONTRACTOR entitlement for each day of Compensable Delay determined to be caused solely by the County at any time during the performance of the Work and shall constitute payment in full for all delay costs, direct or indirect (including, without limitation, compensation for all extended home office overhead and extended general conditions), of the CONTRACTOR and all subcontractors, suppliers, persons, and entities under or claiming through CONTRACTOR on the Project. The number of days of Compensable Delay shown as a "multiplier" above is not intended as an estimate of the number of days of Compensable Delay anticipated by the County. The County will pay the daily rate of compensation only for the actual number of days of Compensable Delay, as defined in the General Conditions (Section 9.3); the actual number of days of Compensable Delay may be greater or lesser than the "multiplier" shown above.

5. **The lowest bid shall be determined on the basis of the sum of the base bid plus the result of the compensable delay rate times the multiplier.**
Base Bid + Compensable Delay Rate x Multiplier = Basis for Determining Lowest Bid
6. It is understood that Owner reserves the right to reject the proposal and that it shall remain open and not be withdrawn for a period of ninety (90) calendar days from the date prescribed for its opening. Additionally, Santa Barbara County reserves the right to take any of the alternates, in any order, or in any combination, as a change order at the bid prices listed for a period of thirty (30) days after the Notice to Proceed is issued.
7. Attached hereto and incorporated herein is the complete and entire list of subcontractors to be employed by the undersigned and in the performance of the Work.
8. It is understood and agreed that if written notice of the acceptance of this proposal is mailed or delivered personally to the undersigned bidder within thirty (30) calendar days after the opening of the proposal, or at any time thereafter before it is withdrawn, the undersigned bidder will execute and deliver the Contract Documents to Owner in accordance with the proposal as accepted, and will also furnish and deliver to Owner any Payment Bond required under the provisions of California Civil Code and Performance Bond as required under the provisions of the California Government Code and/or California Public Contract Code all within fourteen (14) calendar days after personal delivery or deposit in the mails, as the case may be, of the notifications of award. The work under the contract shall be commenced by the undersigned bidder on the date stated in COUNTY'S written Notice to Proceed and shall be completed within **90 (ninety)** calendar days thereafter.
9. Notice of acceptance or request for additional information may be addressed to the undersigned bidder at the business address set forth below.
10. The bid, contract or other submittal of the CONTRACTOR identified below in connection with the foregoing project is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; and that the bid is genuine, and not collusive or sham; that the undersigned bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded, conspired, connived or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding; that the undersigned bidder has not directly or indirectly sought by agreement, communication or conference with anyone to fix his bid price or the bid price of any other bidder or to fix any

overhead, profit or cost element of such bid price or of that of any other bidder or to secure any advantage against the COUNTY of Santa Barbara of anyone interested in the proposed contract; or all statements contained in this proposal are true; and that the undersigned bidder has not directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay any fee to any corporation, partnership, company association, organization, Bid Depository or to any member or agent thereof to effectuate a collusive or sham bid. I declare under the penalty of perjury under the laws of the State of California that the foregoing is true and correct.

11. Wherever in this proposal an amount is stated in both words and figures, in case of discrepancy between words and figures the words shall prevail; if all or any portion of the proposal is required to be given in unit prices and totals and a discrepancy existing between any such unit prices and totals so given, the unit prices shall prevail.
12. In accordance with the provisions of Sections 1860 and 1861 of the California Labor Code, every CONTRACTOR will be required to secure the payment of compensation of his or her employees. Each CONTRACTOR to whom a public works contract is awarded shall sign the following certification prior to performing the work of the contract: "I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."
13. Protests of any bid(s) received must be in writing, must specify all grounds for the protest, and must be filed within ten working days after the opening of bids.

CONTRACTOR

Company

IRS No.: _____

Street Address

License Classification(s): _____

City

Phone Number: _____

BY: _____
Signature

Printed Name, Title

DESIGNATION OF SUBCONTRACTORS

The bidder agrees if this proposal is accepted, that he will contract with the County of Santa Barbara to do all work and furnish all labor, materials, machinery, tools and apparatus necessary to completely perform said Contracts in the manner and time prescribed by said Contract.

County of Santa Barbara
Santa Barbara Courthouse Public Defender Roof Rehabilitation
1100 Anacapa Street, Santa Barbara, CA 93101
Project No. 8722
Bid Date: February 25, 2016 3:00 P.M

In compliance with the provisions of Section 4100-4107 of the Public Contract Code of the State of California, and any amendments, thereof, the undersigned bidder has set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the undersigned in or about the construction of the work to be performed. That portion of the work which will be done by each subcontractor for each subcontract in excess of one-half of one percent of the undersigned's total aggregate bid shall be listed.

DIVISION OF WORK	SUBCONTRACTOR	LIC NO.	LOCATION	DIR REGISTERED

COMPANY: _____ BY: _____
Bidder's Signature

NOTE: This form may be reproduced and attached behind this page to list more Subcontractors. In addition, the Prime Contractor shall provide the contractor license number for each listed sub-contractor as required by Public Contracts Code §4104. If the Prime Contractor makes an inadvertent error in listing the sub-contractor's license number; it will have 24 hours after the opening of bids to provide the correct information; if it does, the error shall not be grounds for filing a bid protest or for the subject bid to be found non-responsive by the County. The Prime Contractor is responsible to determine if a listed subcontractor is eligible to submit a bid on public work in compliance with California Labor Code section 1725.5, please indicate Yes if registered. A No response will cause the Bid Proposal to be rejected.

CERTIFICATE OF COMPLIANCE

This is to certify that all requirements for insurance of subcontractors as specified for this project will be met.

Dated

Signature of Principal

Printed Name, Title of Principal

Company

Address

City, State & Zip

BIDDER'S STATEMENTS

REGARDING INSURANCE COVERAGE:

Bidder hereby certifies that he has reviewed the insurance coverage requirements specified in the Contract Specifications. Should he be awarded the contract for the work, Bidder further certifies that he can meet all the Contract Specification requirements for insurance including insurance coverage of his subcontractors.

REGARDING PUBLIC CONTRACT CODE SECTION 10232:

In accordance with Public Contract Code Section 10232, the Contractor hereby states, under penalty of perjury, that no more than one final non-appealable finding of contempt of court by a Federal Court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a Federal Court which orders the Contractor to comply with an order of the National Labor Relations Board.

REGARDING PUBLIC CONTRACT CODE SECTION 10162:

In accordance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing, a federal, state, or local government project because of a violation of law or safety regulation?

Yes _____ No _____

(If the answer is yes, explain the circumstances on a separate sheet of paper and attach to proposal)

Dated

Signature of Principal

Printed Name, Title of Principal

Company

Address

City, State & Zip

ANTI-FRAUD CERTIFICATION

County of Santa Barbara

Santa Barbara Courthouse Public Defender Roof Rehabilitation

1100 Anacapa Street, Santa Barbara, CA 93101

County Project No. 8722

In accordance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury that the bidder **has** , **has not** , been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or Trustees of the California State University.

The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

NOTE: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

Dated

Signature of Principal

Printed Name, Title of Principal

Company

Address

City, State & Zip

BIDDER'S BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____ as Principal, and _____ as Surety (hereinafter referred to as Surety), are held firmly bound unto the County of Santa Barbara, State of California (hereinafter called "Owner") in the penal sum of Ten Percent (10%) of the total aggregate amount of the bid of the Principal above named, submitted by said Principal to Owner for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. Surety shall be and hereby warrants that it is listed in the Insurance Organizations Authorized by the Insurance Commissioner to Transact Business of Insurance in the State of California, published by the Department of Insurance, State of California or successor publications. In no case shall the liability of the Surety hereunder exceed the sum of _ DOLLARS (\$ _____). The condition of this obligation is such that a bid to Owner for certain construction specifically described as follows:

County of Santa Barbara
Santa Barbara Courthouse Public Defender Roof Rehabilitation
1100 Anacapa Street, Santa Barbara, CA 93101
County Project No. 8722

for which bids are to be opened on Bid Date: February 25, 2016 3:00
P.M., has been submitted by Principal to Owner.

NOW, THEREFORE, if the aforesaid Principal shall not withdraw said bid within the period therein after the opening of the same, or, if no period be specified within sixty (60) days after said opening and shall within the period specified therefore, or, if no period be specified, within eight (8) days after the prescribed forms are presented to him for signature, enter into a written Contract with Owner, in the prescribed form, in accordance with the bid as accepted, and file the two Bonds with Owner, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall remain in full force, virtue and affect.

Said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of said Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any manner affects its obligations on this bond, and it does hereby waive notice of any change, extension, alteration, or addition.

It is hereby agreed that any progress payment made after the scheduled completion date will not constitute a waiver of any liquidated damages heretofore agreed upon.

In the event suit is brought upon said Bond by Owner and judgment is recovered, the Surety shall pay all costs incurred by Owner in such suit, including a reasonable attorney's fee to be fixed by the Court.

Death, Bankruptcy, Receivership, Going Out of Business for any reason, or incompetence of the Principal shall not relieve the Surety of its obligations hereunder.

Name of Principal

Dated _____

Signature of Principal

(Seal)

Name of Surety

Address

City, State & Zip

Dated _____

Signature of Principal

Signature of Surety's Attorney-in-fact

(Seal)

Surety's Agent for Service of Process (located within the State of California):

Name of Agent

Address

City, State & Zip

Telephone Number

FAX Number

NOTE: Signatures of those executing for Surety MUST be properly acknowledged. This form may be reproduced for transmittal to the Surety for execution and attached to the front of the original Bid Bond Form.

CONTRACT FORMS

PAYMENTBOND

KNOW ALL MEN BY THESE PRESENTS:

That the County of Santa Barbara of the State of California (hereinafter referred to as the County) and _____ (hereinafter referred to as Principal) have by written agreement dated _____, entered into a contract identified as:

Project Title: **Santa Barbara Courthouse Public Defender Roof Rehabilitation (#8722)**, County of Santa Barbara

(Hereinafter referred to as the Contract) and

That, pursuant to law and to said Contract, and before entering upon the performance of said Contract, the principal is required to file with the County a good and sufficient bond to secure the payment of labor and materials claims.

NOW, THEREFORE, said Principal and _____

_____ as corporate surety (hereinafter referred to as Surety), are held firmly bound unto the County in the amount of \$ _____, for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns both jointly and severally. Surety shall be and hereby warrants that it is listed in the Insurance Organizations Authorized by the Insurance Commissioner to Transact Business of Insurance in the State of California, published by the Department of Insurance, State of California or successor publications.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said principal, his or its subcontractors, heirs, executors, administrators, successors, or assigns, shall fail to pay any of the persons named or referred to in Section 9100 of the California Civil Code, or amounts due under Unemployment Insurance Code with respect to work or labor performed by any such claimant, or for any amounts required to be deducted, withheld and paid over to the Employment Development Department from the wages of employees of the Contractor and his subcontractors pursuant to Section 13020 of the Unemployment Insurance Code with respect to such work and labor as required by Division 4, Part 6, Title 3 Chapter 5 (commencing at Section 9550) of the California Civil Code, or this bond, then said Surety will pay for the same, in an amount not to exceed the amount hereinafter set forth.

This bond shall insure to the benefit of any and all persons, entities, companies and corporations named or referred to in Section 9100 of the California Civil Code, so as to give a right of action to them or their assign in any suit brought upon this bond.

And the said Surety, for value received, hereby 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 the Specifications accompanying the same, shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the Specifications.

In the event suit is brought upon this Bond by County and judgment is recovered, Surety shall pay all costs incurred by the County in such suit, including a reasonable attorney's fee to be fixed by the court.

Death, illness, disability or disqualification of the Principal shall not relieve Surety of its obligations hereunder.

Principal

Surety

By: _____

Signature of Attorney-in-fact

DATED: _____

Address

City, State & Zip Code

Surety's Agent for Service of Process (located within the State of California):

Name of Agent

Address

City, State & Zip Code

Telephone Number

FAX Number

NOTE: Signature of those executing for Surety must be properly acknowledged.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That the County of Santa Barbara of the State of California (hereinafter referred to as the County) and _____,
(hereinafter referred to as Principal) have by written agreement dated _____, entered into a contract identified as:

Project Title: **Santa Barbara Courthouse Public Defender Roof Rehabilitation (#8722)**, County of Santa Barbara

(Hereinafter referred to as the Contract) and

That, pursuant to law and to said Contract, and before entering upon the performance of said Contract, the Principal is required under the terms and conditions of said Contract to furnish a bond for the faithful performance of Contract.

NOW, THEREFORE, said Principal and _____

as corporate surety (hereinafter referred to as Surety), are held firmly bound unto the County in the amount of \$ _____,
for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns both jointly and severally. Surety shall be and hereby warrants that it is listed in the Insurance Organizations Authorized by the Insurance Commissioner to Transact Business of Insurance in the State of California, published by the Department of Insurance, State of California or successor publications.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the Principal, his heirs, executors, administrators, successors, or assigns, shall perform all of the covenants, conditions and agreements in said Contract and any alteration thereof made as herein provided, in his or their part, to be kept and performed at the time, and in the manner therein specified, and shall indemnify and save harmless County, 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, virtue and effect.

And the said Surety, for value received, hereby 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 the specifications accompanying the same shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or additions to the terms of the Contract or to the work or to the specifications.

In the event suit is brought upon this Bond by County and judgment is recovered, Surety shall pay all costs incurred by the County in such suit, including a reasonable attorney's fee to be fixed by the court.

Death, illness, disability or disqualification of the Principal shall not relieve Surety of its obligations hereunder.

Principal

Surety

By: _____

Signature of Attorney-in-fact

DATED: _____

Address

City, State & Zip Code

Surety's Agent for Service of Process (located within the State of California):

Name of Agent

Address

City, State & Zip Code

Telephone Number

FAX Number

NOTE: Signature of those executing for Surety must be properly acknowledged.



CERTIFICATE OF INSURANCE TRANSMITTAL FORM

FOR THE FOLLOWING DESCRIBED PROJECT:

Santa Barbara Courthouse Public Defender Roof Rehabilitation (#8722)

County of Santa Barbara

CONTRACTOR:

Name

Address

City, State & Zip Code

The successful bidder shall furnish satisfactory proof of the maintenance of adequate Worker's Compensation Insurance, and the maintenance of Comprehensive General and Automobile Liability Insurance in the amount of not less than \$1,000,000 per occurrence and \$2,000,000 in the aggregate. The County of Santa Barbara (COUNTY), its officers, employees, and agents shall be named as additional insured on all certificates. A copy of the endorsement evidencing that the County has been added to the policy must be attached to the certificate of insurance. Said policy or policies shall provide that the COUNTY shall be given thirty (30) days written notice prior to cancellation or expiration of the policy or reduction in coverage. Refer to section 5.18 of the General Conditions.

In addition to the above, the following information must appear on the certificates:

This form must be attached to all insurance forms sent to the County of Santa Barbara, General Services Department:

Authorized Insurance Company Representative's Signature

This form may be reproduced as required.

COUNTY OF SANTA BARBARA UNLAWFUL DISCRIMINATION ORDINANCE

Section 2-95. Prohibition of unlawful discrimination in employment practices. The COUNTY reserves the right to terminate forthwith each and every written contract and agreement (except purchase orders) respecting real property for goods and/or services entered into by the COUNTY or by its joint powers, agencies, or agents with the consent of the other parties (hereinafter called "CONTRACTOR") including but not limited to concessions, franchises, construction agreements, leases, whether now in effect or hereinafter made if the COUNTY finds that the CONTRACTOR is discriminating or has discriminated against any employee or applicant for employment in violation of any applicable state or federal laws, rules, or regulations which may now or hereafter specifically prohibit such discrimination on such grounds as race, religion, sex, color, national origin, physical or mental disability, Vietnam era veteran/disabled, age, medical condition, marital status, ancestry, sexual orientation, or other legally protected status.

Such finding may only be made after CONTRACTOR has had a full and fair hearing on notice of thirty (30) days before an impartial hearing officer at which hearing CONTRACTOR may introduce evidence, produce witness, and have the opportunity to cross-examine witnesses produced by the COUNTY. Further, any finding of discrimination must be fully supported by the facts developed at such hearing and set forth in a written opinion; and in addition, CONTRACTOR may move in the appropriate court of law for damages and/or to compel specific performance of a CONTRACTOR or agreement if any of the above procedures are not afforded to the CONTRACTOR. If CONTRACTOR is not found to have engaged in unlawful discriminatory practices, COUNTY shall pay all costs and expense of such hearing, including reasonable attorney's fees to CONTRACTOR in accordance with current Santa Barbara County Superior Court schedule of attorney's fees for civil trials. If CONTRACTOR is found to have engaged in such unlawful discriminatory employment practices, CONTRACTOR shall pay all such costs, expenses, and attorney's fees.

Whether or not a contract or agreement is still in existence at the time of final determination of such unlawful discrimination, the CONTRACTOR shall forthwith reimburse COUNTY for all damages directly stemming from such discrimination; however, those damages shall not exceed and are not reimbursable in an amount which exceeds amounts paid CONTRACTOR under the terms of the contract or agreement.

Nothing in this Section 2-95 shall directly or by interpretation give a private cause of action to any third party (not a signatory to the contract or agreement) including employees past or present, or applicants for employment to CONTRACTOR, it being the sole purpose of this clause to administratively assure compliance with the nondiscrimination clauses contained herein.

With respect to employment discrimination, employment practices shall include, but are not limited to employment, promotion, demotion, transfer, recruitment and advertising for recruitment, layoff or other termination, rate of pay, employee benefits, and all other forms of compensation or selection for training and apprenticeship and probationary periods.

CONTRACTOR shall permit access at all reasonable time and places to all of its records of employment, advertising, application forms, tests, and all other pertinent employment data and records, to the COUNTY, its officers, employees, and agents for the purpose of investigation to ascertain if any unlawful discrimination as described herein has occurred or is being practiced, provided that such records are relevant to a complaint of an unlawful discriminatory practice which has been forwarded to CONTRACTOR reasonably prior to the time CONTRACTOR is asked to make such records available. In addition, all such records shall be deemed "Confidential" by the officers, employees, and agents of the COUNTY. No records or copies of such records may be removed from the premises of CONTRACTOR and no disclosure, oral, or written of such record, may be made to third parties except as provided within the agreement.

Provided, however, that in the event of a hearing to determine whether or not CONTRACTOR is engaging in unlawful discrimination in employment practices as defined herein, the Board of Supervisors of Santa Barbara County may issue subpoenas to require that certified copies of such records be made available to the hearing.

Failure to fully comply with any of the foregoing provisions relating to unlawful discrimination in employment practices shall be deemed to be a material breach of any contract or agreement with the COUNTY. All persons contracting with or who have contracts for goods or services with the COUNTY shall be notified that this chapter applies to their contract or agreement with the COUNTY (Ordinance No. 2946, SS1; Ordinance No. 2993, SS1; and Ordinance No. 3018, SS1).

Section 2-95.5. Exceptions. Notwithstanding any other provisions in this article, any party contracting with the COUNTY having an affirmative action program which has been approved within twelve (12) months from the date of the contract by an agency of the federal government shall be deemed to be in compliance with the provisions of this article upon furnishing documentary evidence of such approval satisfactory to the COUNTY affirmative action officer. Loss of such approval shall be immediately reported by such party to the COUNTY affirmative action officer.

Section 2-96. Purchase orders. Purchase orders shall contain the following clause as grounds for termination of such purchase orders:

"If complaint is made that seller is engaging in discriminatory employment practices made unlawful by applicable state and federal laws, rules, or regulations, and the State Fair Employment Practice Commission or the Federal Equal Employment Opportunities Commission determines that such unlawful discrimination exists, then the COUNTY may forthwith terminate this order." (Ordinance No. 2946, SS 1)

Section 2-97. Affirmative action officer. At the discretion of the COUNTY affirmative action officer, he or she shall promptly and thoroughly investigate, or cause to be investigated reports and complaints from whatever source, that any party contracting with the COUNTY is engaging, or during the term of a contract or agreement with the COUNTY has engaged, in any unlawful discriminatory employment practices as described in Section 2-95 of this Code. If the investigation discloses reason to believe such unlawful discrimination does exist or has existed and the conditions giving rise thereto have not been changed so as to prevent further such unlawful discrimination, and the said party shall not forthwith terminate such unlawful discrimination, take all appropriate steps to prevent a recurrence of such or other unlawful practices, and compensate the person or persons unlawfully discriminated against for any and all loss incurred by reason of such unlawful discrimination, all to the satisfaction of the affirmative action officer, then the affirmative action officer shall cause the matter to be presented for action to the State Fair Employment and Housing Council or the Federal Equal Employment Opportunities Commission, or both, and to any other concerned state or federal agencies or officers.

If and when it has been finally determined by the affirmative action officer, COUNTY counsel, or state or federal regulatory agencies that such unlawful discriminatory employment practice has in fact so occurred or are being carried on, then the affirmative action officer shall forthwith present the entire matter to the Board of Supervisors of the COUNTY, together with all damages, costs, and expense related thereto and incurred by COUNTY, for appropriate action by the Board of Supervisors in accord with the intent and purposes of this article and of the affirmative action program of the COUNTY (Ordinance No. 2946, SS 1).

GENERAL CONDITIONS

General Conditions

Revision June 2014

GENERAL CONDITIONS

GENERAL CONDITIONS

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ARTICLE 1: CONTRACT DOCUMENTS

1.1 DEFINITIONS

- 1.1.1 The Contract Documents: The Contract Documents consist of the Agreement between the Owner and the Contractor, the Conditions of the Contract (General Conditions, General Requirements and other Conditions), the Drawings, the Specifications, all Addenda, Supplements, Advertisements for Bids, Invitations to Bid and Proposal Forms issued prior to execution of the Contract and all Modifications issued after the execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties (2) a Change Order, (3) a written interpretation issued by the Architect/Engineer pursuant to Subparagraph 3.2.2 or (4) a written order for a minor change in the Work issued on the Owner's behalf pursuant to Paragraph 13.4.1.
- 1.1.2 The Contract: The Contract Documents form the Contract with the Contractor. This Contract represents the entire and integrated agreement and supersedes all prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification as defined in Subparagraph 1.1.1. The Contract Documents shall not be construed to create any contractual relationship of any kind between the Architect/Engineer and the Contractor or between the Architect/Engineer and the Designated Representative but the Architect/Engineer and the Designated Representative shall be entitled to performance of the obligations of the Contractor intended for their benefit and to enforcement thereof. Nothing contained in the Contract Documents shall create any contractual relationship between the Owner, the Designated Representative or the Architect/Engineer and any Subcontractor or Sub-subcontractor.
- 1.1.3 The Work: The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or part of the project.
- The Project: The "Project" is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner or by separate contractors.
- 1.1.5 The Owner: As defined in Article 2 of the General Conditions, the Owner for this project is:
Santa Barbara County, through its
Board of Supervisors
- 1.1.6 Architect/Engineer: As defined in Article 3 of the General Conditions.
- 1.1.7 Designated Representative: As defined in Article 4 of the General Conditions, the Designated Representative is also the Labor Compliance Coordinator for the Work.
- 1.1.8 Contractor: As defined in Article 5 of the General Conditions.
- 1.1.9 Product: The term "product" shall include materials, equipment and systems.
- 1.1.10 The Drawings: The Drawings are the graphic and pictorial portions of the Contract Documents, wherever located and whenever issued, showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.
- 1.1.11 The Specifications: The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work and performance of related services.
- 1.1.12 The Project Manual: The Project Manual is the volume usually assembled for the Work which may include the bidding requirements, sample forms, conditions of the Contracts and Specifications.
- 1.1.13 As Approved: Where used in conjunction with the Designated Representative or the Architect/Engineer's response to submittals, requests, applications, inquiries, reports and claims by the Contractor, the meaning of the term "approved" shall not exceed the limitations of the Designated Representative or the Architect/Engineer's responsibilities and duties as established in these General Conditions.
- 1.1.13.1 In no case shall "approval" by the Designated Representative or the Architect/Engineer be interpreted as a release of the Contractor from the responsibilities to fulfill the requirements of the Contract Documents.
- 1.1.13.2 Approval, where required for an item, shall be obtained from the Architect/Engineer through the Designated Representative in writing.
- 1.1.14 Indicated: The term "indicated" is a cross reference to details, notes or schedules on the drawings, other

paragraphs or schedules in the Specifications and similar means of recording requirements in the Contract Documents.

- 1.1.14.1 Where terms such as "shown", "noted", "scheduled", and "specified" are used instead of "indicated", it is for the purpose of helping the reader accomplish the cross reference and no limitation of locations is intended except as specifically noted.
- 1.1.14.2 Directed, Requested, Etc.: Where not otherwise explained, terms such as "directed", "requested", "authorized", "selected", "approved", "required", "accepted", and "permitted" mean "directed by the Architect/Engineer, Designated Representative or Owner's Representative", "requested by the Architect/Engineer, Designated Representative or the Owner's Representative", etc. However, no such implied meaning will be interpreted to extend to the Architect/Engineer's or Designated Representative's responsibility in the Contractor's area of construction supervision.
- 1.1.15 Installer: The person or entity engaged by the Contractor or its Subcontractor or Sub-subcontractor for the performance of a particular unit of Work at the project site, including installation, erection, application and similar required operations. It is a General Requirement that installers be recognized as experienced and competent in the Work that they are engaged to perform.
- 1.1.16 Suitable, Reasonable, Proper, Correct, and Necessary: Such terms shall mean as suitable, reasonable, proper, correct or necessary for the purpose intended as required by the Contract Documents, subject to the judgment of the Architect/Engineer or the Designated Representative.
- 1.1.17 Including, Such As: The Terms "including" and "such as" shall always be taken in the most inclusive sense, namely, "including, but not limited to", and "such as, but not limited to."
- 1.1.18 Option: The term "option" shall mean a choice from the specified products which shall be made by the Contractor. The choice is not "whether" the Work is to be performed, but "which" product or "which" procedure is to be used. The product or procedure chosen by the Contractor shall be provided at no increase in the cost to the Owner or the Designated Representative and with no lessening of the Contractor's responsibility for its performance. All or any options selected or proposed are still subject to all requirements for submittals and for approval of same.
- 1.1.19 Exposed: The term "exposed" shall mean any item or surface, exterior or interior, which can be seen by a person outside the building, or seen by a person inside any usable space within the building during normal activity.
- 1.1.20 At No Additional Cost: The term "at no additional cost" shall mean at no additional cost to the Owner and at no cost to the Architect/Engineer or the Designated Representative.
- 1.1.21 Testing Laboratory: An independent entity engaged to perform specific inspections or tests of the Work, either at the project site or elsewhere; and to report and interpret the results of those inspections or tests.
- 1.1.22 Record Documents: Construction Documents revised to show changes made during the construction process, usually based on marked-up prints, drawings and other data furnished by the Contractor to the Designated Representative.
- 1.1.23 Compliance Group Representative: The person or entity representing a third-party observer whose sole purpose on the PROJECT is to interview contractor employees, including any subcontractor for prevailing wage compliance consistent with federal and state prevailing wage requirements as set forth in the David-Bacon Act and other related codes, laws or regulations.

1.2 ABBREVIATIONS

- 1.2.1 The language of the specifications and elsewhere in the Contract Documents is of the abbreviated type in certain instances and implies words and meanings which will be appropriately interpreted.
- 1.2.2 Actual word abbreviations of a self-explanatory nature have been included in the Specifications and Drawings. These are generally defined in the Specifications Section at the first instance of use of each term so abbreviated. They are generally summarized in a list on the Drawings.
- 1.2.3 Singular words will be interpreted as plural and plural words will be interpreted as singular where applicable and the full context of the requirements so indicates.

1.3 EXECUTION, CORRELATION AND INTENT

- 1.3.1 By executing this Agreement, the Contractor represents that he has visited the site, familiarized himself with the local conditions under which the Work is to be performed and correlated its observations with the requirements of the Contract Documents. Claims, as a result of failure to do so, will not be considered.
- 1.3.2 The contract agreement shall be signed in triplicate by the Owner and Contractor. Original copies are to be provided to Owner, Contractor, and Designated Representative.
- 1.3.3 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work. The Contract Documents are complementary and what is required by any one shall be as binding as if required by all. Work not covered in the Contract Documents will not be required unless it is consistent therewith and is reasonably inferable therefrom as being necessary to produce the intended results. Words and abbreviations in the Contract Documents which have well-known technical or trade meanings are used in accordance with such recognized meanings.
- 1.3.4 The organization of the Specification into divisions, sections and articles and the arrangements of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any Trade.
- 1.3.5 All indications or notations which apply to one or a number of similar situations, materials or processes shall be deemed to apply to all such situations, materials or processes wherever they appear in the Work, unless otherwise indicated in the Contract Documents.
- 1.3.5.1 Where the word "similar" appears on the drawings, it shall be interpreted in its general sense and not as meaning identical and all details shall be worked out in relations to their location and connection with other parts of the Work.
- 1.3.5.2 Where, on any drawings, a portion of the Work is drawn out and the remainder is indicated in outline, the parts drawn out shall also apply to parts outlined.
- 1.3.6 All manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the manufacturer's written or printed directions and instructions unless otherwise indicated in the Contract Documents.
- 1.3.7 The Contract Documents should be read as one package and are dependent on one another for interpretation. If there is an ambiguity or conflict between documents, the Contractor or its Subcontractor has the duty of inquiring with the Designated Representative and the Architect/Engineer before he bids on the job. Conflicts and discrepancies discovered during the process of the Work shall be referred to the Architect/Engineer and Owner via the Designated Representative for resolution.
- 1.3.8 Any noted discrepancies between the Contract Documents shall be promptly called to the attention of the Designated Representative and the Architect/Engineer and no Work so affected shall be undertaken in advance of the Designated Representative's and the Architect/Engineer's decision, except at the Contractor's own risk.

1.4 OWNERSHIP AND USE OF DOCUMENTS

- 1.4.1 Unless otherwise provided in the Contract Documents, the Contractor will be furnished, free of charge, up to twenty (20) sets of approved Working Drawings and Specifications for the execution of the Work.
- 1.4.2 All Drawings, Specifications and copies thereof furnished by the Owner are and shall remain its property. They are to be used only with respect to this project and are not to be used on any other project. With the exception of one contract set for each party, such documents are to be returned or suitably accounted for to the Owner on request at the completion of the Work.

ARTICLE 2: OWNER

2.1 DEFINITION

- 2.1.1 The Owner is the person or entity identified as such in the Agreement between the Owner and the Contractor and is referred to throughout the Contract Documents as if singular in number and masculine in gender. The term Owner means the Owner or its authorized representative.

2.2 INFORMATION AND SERVICES FURNISHED BY THE OWNER

- 2.2.1 The Owner will furnish all surveys describing the physical characteristics and approximate known utility locations for the site of the Project.
- 2.2.2 Except as provided in Subparagraph 5.7.1, the Owner will secure and pay for necessary approvals, easements, assessments and charges required for the construction, use, or occupancy of permanent structures or for permanent changes in existing facilities unless otherwise noted.

- 2.2.3 Information or services under the Owner's control will be furnished by the Owner with reasonable promptness to avoid delay in the orderly progress of the Work.
- 2.2.4 The Owner shall forward all instructions to the Contractor through the Designated Representative.
- 2.2.5 The Owner shall at all times have access to the Work for inspection, wherever it is in preparation or in progress. When directed by the Designated Representative, the Contractor shall provide facilities for such access and inspection at the Contractor's cost.

2.3 DELEGATION

- 2.3.1 The Board of Supervisors delegates to the County Director of General Services the authority to act on its behalf in the administration of this contract.
- 2.3.2 The Director of General Services has the authority to change the Designated Representative when the Designated Representative is an employee of the County.
- 2.3.3 If the Designated Representative is a person or entity other than an employee of the County, the Director of General Services shall recommend to the Board of Supervisors a replacement for the Designated Representative whenever such replacement is in the best interest of the County. An affirmative majority vote by the Board of Supervisors is required to complete the replacement of the Designated Representative.
- 2.3.4 The Director of General Services may execute Change Orders in accordance with Article 13 in a cumulative amount not to exceed 10% of the first \$250,000 of the base contract amount plus 5% of the base contract amount over \$250,000, and for time extensions as the director may deem equitable. Any Change Orders in excess of 10% of the first \$250,000 of the base contract amount plus 5% of the base contract amount over \$250,000 shall be approved by a majority vote of the Board of Supervisors.

2.4 AUTHORITY OF BOARD AND INSPECTION

- 2.4.1 The Board of Supervisors has the final authority in all matters affecting the work covered by the plans and specifications. Within the scope of the contract, the Designated Representative has the authority to enforce compliance with the plans and specifications. The Contractor shall promptly comply with instructions from the Designated Representative.
- 2.4.2 On all questions relating to quantities, the acceptability of material, equipment, or work, the execution, progress or sequence of work, and the interpretation of specifications or drawings, the decision of the Designated Representative is final and binding, and shall be precedent to any payment under the contract, unless otherwise ordered by the Board.
- 2.4.3 Labor Compliance Monitoring: To ensure compliance with prevailing wage requirements in the WORK, the Board of Supervisors has adopted a *Joint Labor Compliance Monitoring Program*. This program monitors labor compliance by conducting interviews with CONTRACTOR employees and subcontractors at the project site. A copy of the *Joint Labor Compliance Monitoring Program* is available at the Capital Projects Division Office. A copy of the *Joint Labor Compliance Monitoring Program* will be provided upon request. The Contractor, and all subcontractors, shall cooperate by allowing approved Compliance Group Representatives access to its employees on the project site for the purpose of conducting prevailing wage compliance interviews. The Compliance Group Representative shall restrict their on-site activities to prevailing wage compliance interviews only. Promotion, advertising or other related activities of the Compliance Group Representative is strictly prohibited. Any additional effort required by the Contractor in compliance with this Article shall be incorporated into the Bid Scope of Work and no additional compensation will be considered. The Designated Representative (or its designee) may accompany any Compliance Group Representative when conducting prevailing wage compliance interviews. The Compliance Group Representative will display in plain view a county-issued identification card when conducting prevailing wage compliance interviews at the project site.

ARTICLE 3: ARCHITECT/ENGINEER

3.1 DEFINITIONS

- 3.1.1 The Architect/Engineer is the person lawfully licensed to practice architecture or engineering or an entity lawfully practicing architecture or engineering who has entered into an Agreement with the Owner to serve as Architect/Engineer and is referred to throughout the Contract Documents as if singular in number and masculine in gender. The term Architect/Engineer means the Architect/Engineer or its authorized representative.
- 3.1.2 Architect/Engineer shall be entitled to performance by the Contractor of any obligations expressly set forth which are intended for the Architect/Engineer's benefit and to enforcement thereof.
- 3.1.3 In the case of the termination of the employment of the Architect/Engineer, the Owner shall appoint a capable and reputable Architect/Engineer. The status under the Contract of the Architect/Engineer so appointed shall be that of the former Architect/Engineer. The Owner shall notify the Contractor whenever the Architect/Engineer is replaced.

3.1.4 The Architect/Engineer may be an employee of the County or other governmental entity.

3.2 ARCHITECT/ENGINEER'S DUTIES DURING CONSTRUCTION

3.2.1 The Architect/Engineer shall at all times have access to the Work wherever it is in preparation and progress. When directed by the Designated Representative, the Contractor shall provide facilities for such access at the Contractor's cost so the Architect/Engineer may perform its functions under the Contract Documents.

3.2.2 The Architect/Engineer will be the interpreter of the requirements of the Drawings and Specifications. Written interpretations necessary for the proper execution or progress of the Work, in the form of drawings or otherwise, will be issued with reasonable promptness by the Architect/Engineer through the Designated Representative and in accordance with any schedule agreed upon. The Contractor or Owner shall make written dated request through the Designated Representative to the Architect/Engineer for such interpretations. Such interpretations shall be consistent with and reasonably inferable from the Contract Documents. The Contractor or Owner shall execute and complete the Work in accordance with such interpretations. The Architect/Engineer shall not be liable to the Contractor for the result of any interpretation or decisions rendered in good faith in such capacity.

3.2.2.1 The Architect/Engineer shall interpret the requirements of Change Orders and he shall decide all other questions of design intent in connection with the Work.

3.2.2.2 It shall be the responsibility of the Architect/Engineer to make interpretations and render opinions in regard to all claims to the Owner or Designated Representative involving questions of interpretation of the intent of the drawings and specifications. Such opinions and interpretations, together with the reasons therefore, shall be furnished in writing by the Architect/Engineer to the Owner, Designated Representative and Contractor within ten (10) days after a request is made thereof.

3.2.2.3 Neither the Contractor, the Designated Representative nor the Owner shall be bound by any determination, interpretation or opinion of the Architect/Engineer if it is determined that such is not in accord with the true intent of the Contract Documents. The party taking issue with the determination, interpretation, or decision of the Architect/Engineer shall give the other party or parties, as the case may be, written notice of such fact within ten (10) days after the determination, interpretation, or opinion is rendered by the Architect/Engineer. However, it is the intent of this Paragraph 3.2 that in the actual performance of the Work, the Contractor and the Designated Representative shall, in the first instance, proceed in accordance with the instruction given by the Architect/Engineer unless the Owner and the Designated Representative mutually agree that the Contractor and the Designated Representative shall proceed otherwise.

3.2.3 The Architect/Engineer's decisions in matters relating to artistic effect will be final if consistent with the intent of the Contract Documents.

3.2.4 The Architect/Engineer will have the authority to reject Work which does not conform to the Contract Documents. Whenever, in its opinion, he considers it necessary or advisable for the implementation of the intent of the Contract Documents, he will have authority to require special inspection or testing of the Work in accordance with Subparagraph 8.7.2 whether or not such Work be then fabricated, installed or completed. However, neither the Architect/Engineer's authority to act under this Subparagraph 3.2.4, nor any decision made by him in good faith either to exercise or not to exercise such authority, shall give rise to any duty or responsibility of the Architect/Engineer to the Contractor, any Subcontractor, any of their agents or employees, or any other person performing any of the Work.

3.2.4.1 The Architect/Engineer will be the judge of the performance of the Work and will use its powers under the Contract to enforce its faithful performance. The Architect/Engineer will determine the amount, quality, acceptability and fitness of all parts of the Work.

3.2.4.2 The Architect/Engineer will recommend suspension of the Work whenever suspension may be necessary to ensure the proper execution of the Work.

3.2.5 The Architect/Engineer will review and approve or take other appropriate action upon Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for conformance with the design concept of the Work and with the information given in the Contract Documents. Such action shall be taken with reasonable promptness so as to cause no delay. The Architect/Engineer approval of a specific item shall not indicate approval of an assembly of which item is a component.

3.2.6 The Architect/Engineer along with the Designated Representative will conduct inspections to determine the dates of Substantial Completion and Final Completion and will receive and review written warranties and related documents required by the Contract and assembled by the Contractor.

3.2.7 Architect/Engineer shall prepare and deliver to the Owner a set of reproducible mylar record construction drawings and record construction specifications showing significant changes in the Work during the construction process based upon marked up prints of drawings and other data provided by the Contractor through the Designated Representative.

3.2.8 The Architect/Engineer will communicate with the Contractor through the Designated Representative.

- 3.2.9 The Architect/Engineer will visit the site at intervals appropriate to the stage of construction to become generally familiar with the progress and quality of Work and to determine in general if the Work is being performed in a manner indicating that the Work, when completed, will be in accordance with the Contract Documents. However, the Architect/Engineer will not be required to make exhaustive or continuous on-site inspections to check quality or quantity of the Work. On the basis of on-site observations as an Architect/Engineer, the Architect/Engineer will keep the Owner informed of progress of the Work and will endeavor to guard the Owner against defects and deficiencies in the Work.
- 3.2.10 The Architect/Engineer will not have control over or charge of and will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, since these are solely the Contractor's responsibility as provided in Paragraph 5.3. The Architect/Engineer will not be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The Architect/Engineer will not have control or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractor, or their agents or employees, or of any other persons performing portions of the Work.
- 3.2.11 The Architect/Engineer has no authority to issue change orders. All requests for proposals shall be prepared by the Architect/Engineer, shall be approved by the Owner or Director of General Services, and shall be issued to the Contractor through the Designated Representative.

ARTICLE 4: DESIGNATED REPRESENTATIVE

4.1 DEFINITION

- 4.1.1 The Designated Representative is the person or entity who has been identified in writing by the Owner to serve as Designated Representative and is referred to throughout the Contract Documents as if singular in number and masculine in gender. When the Designated Representative is an entity, other than a singular person, the term Designated Representative includes the Designated Representative acting through its authorized representatives as indicated to the Contractor in writing at the preconstruction meeting or whenever changes in personnel assignments occur.

4.2 ADMINISTRATION OF THE CONTRACT

- 4.2.1 The Designated Representative will provide, as the Owner's authorized representative, the general administration of the Project as herein described.
- 4.2.2 The Designated Representative will be the Owner's construction representative during the construction until final payment and shall have the responsibility to monitor the Work of the Contractor.
- 4.2.3 The Designated Representative shall monitor the Work to be performed through completion. His activities shall in no way supersede or dilute the Contractor's obligation to perform the Work in conformance with all contract requirements, but he is empowered, by the Owner, to act on its behalf with respect to the proper execution of the Work and shall give instructions to require such corrective measures as may be necessary, in its opinion, to ensure the proper execution of the contract or to protect the Owner's interest. The Designated Representative shall have the authority to require prompt execution of Work whenever such action may be necessary, in its opinion, to ensure the proper execution of the Work or to protect the interests of the Owner. Except as otherwise provided herein, the Designated Representative shall determine the amount, quality, acceptability, fitness and progress of the Work covered by the Contract without, however, assuming any of the Architect/Engineer's statutory or customary obligations. The Designated Representative shall be deemed to be the Owner's Representative to the extent set forth below and elsewhere in this Contract. The Designated Representative shall have no authority to obligate or otherwise bind the Owner.
- 4.2.4 The Designated Representative shall review and monitor the Contractor's Work and construction schedule and establish specific measures and actions which the Contractor shall take to maintain the current approved schedule.
- 4.2.5 The Designated Representative shall examine the Contractor's Work to determine if the construction conforms to the requirements of this Contract (provided, however, that such action by the Designated Representative shall not supersede or diminish the Contractor's obligation to furnish materials and perform the Work in conformity with all requirements of this Contract).
- 4.2.6 The Designated Representative shall determine any corrective measures which may be necessary to bring the Contractor's performance into conformity with Contract requirements.
- 4.2.7 The Designated Representative shall monitor the Contractor's performance in coordinating the Contractor's Work under this Contract with the Work being performed or to be performed by other separate contractors.
- 4.2.8 The Designated Representative shall assist the Owner and the Architect/Engineer in the resolution of questions of Contract interpretation. If the Contractor either disagrees with the Designated Representative's interpretation or considers that such interpretation constitutes a constructive change in Contract requirements, the question shall be referred to the Owner for contract interpretation.

- 4.2.9 The Designated Representative shall establish and recommend administrative procedures for coordinating the activities of the Contractor, the Designated Representative, the Architect/Engineer and the Owner.
- 4.2.10 The Designated Representative shall monitor the Contractor's submittal schedule.
- 4.2.11 The Designated Representative shall coordinate the activities of the Testing Agencies with the activities of the Contractor.
- 4.2.12 The Designated Representative shall review all requests or recommendations for changes affecting this Contract, review proposals, assist in negotiating and submit recommendations thereon to the Owner.
- 4.2.13 The Designated Representative shall make recommendations, together with the Architect/Engineer where appropriate, to the Owner as to the qualifications of Subcontractors or Suppliers wherever submittals of Subcontractors and Suppliers are required to be furnished under this contract.
- 4.2.14 The Designated Representative shall transmit to the Owner all written guarantees and warranties which the Contractor is required to furnish under this contract.
- 4.2.15 The Designated Representative may call meetings which shall be attended by the Contractor, Subcontractors and Material Suppliers, as the Designated Representative may deem necessary.
- 4.2.16 The Designated Representative shall have the authority to reject Work which does not conform to the Contract Documents and to require any Special Inspection and Testing in accordance with Subparagraph 8.7.2.
- 4.2.17 The Designated Representative shall review all applications by the Contractor for progress payments and final payment and make recommendations to the Architect/Engineer and Owner for approval thereof in accordance with the Owner's procedures.
- 4.2.18 The Designated Representative along with the Architect/Engineer will conduct inspections to determine the dates of Substantial Completion and Final Completion and will receive and review written warranties and related documents required by the Contract and assembled by the Contractor.
- 4.2.19 In the event any claim is made or any action brought in any way relating to the design or construction of the Project, the Designated Representative will render to the Owner any and all assistance required of it.
- 4.2.20 The Owner may, at his option, designate the Designated Representative as its representative to perform additional functions, including functions for which other authorized representatives may be designated by the provisions of this contract.
- 4.2.21 It shall be the duty of the Contractor to comply with all procedures established and implemented by the Designated Representative and approved by the Owner as stated above. In the event any such procedures are at a variance with other provisions of the Contract Documents, such procedures shall prevail.
- 4.2.22 The Designated Representative shall, at all times, have access to the Work wherever it is in preparation and progress. When directed by the Designated Representative, the Contractor shall provide facilities for such access so the Designated Representative may perform its functions under the Contract Documents.
- 4.2.23 In no event shall any act or omission on the part of the Designated Representative relieve the Contractor from its obligation to perform its Work in full compliance with the Contract.

4.3 OWNER'S AND DESIGNATED REPRESENTATIVE'S RIGHT TO STOP WORK

- 4.3.1 If the Contractor fails to correct defective Work as required by Paragraph 14.2 or persistently fails to carry out the Work in accordance with the Contract Documents, the Designated Representative or the Owner through the Designated Representative may order the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated.
- 4.3.1.1 The Contractor shall bear all costs of such Work stoppage unless it is determined that no fault existed in the Contractor's Work. Any Work stoppage for the correction of defective Work or removal and replacement of unacceptable materials and equipment will not be considered as the basis for any time extension.
- 4.3.2 If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Document and fails within 48 hours after receipt of written notice from the Designated Representative to commence and continue correction of such default or neglect with diligence and promptness, the Designated Representative may, by written notice and without prejudice to any other remedy he or the Owner may have, make good such deficiencies. In such case an appropriate Change Order shall be issued deducting from the payments then or thereafter due the Contractor the cost of correcting such deficiencies, including compensation for the Architect/Engineer's and the Designated Representative's additional services made necessary by such default, neglect or failure.
- 4.3.3 The relationship of the Designated Representative to the Owner may be that of an independent contractor and the

Designated Representative shall have no authority to bind the Owner in any way with the Contractor, its subcontractors, materials suppliers or any third parties.

ARTICLE 5: CONTRACTOR

5.1 DEFINITION

5.1.1 A Contractor is the person or entity identified as such in the Agreement between the Owner and a Contractor and is referred to throughout the Contract Document as if singular in number and masculine in gender. The term Contractor means the Contractor or its authorized representative.

5.1.2 It is the duty of the Contractor to comply with all procedures established and implemented by the Designated Representative and approved by the Owner as stated herein.

5.2 REVIEW OF CONTRACT DOCUMENTS

5.2.1 **The Contractor shall carefully study and compare the Contract Documents, shall investigate existing site conditions, and shall at once report to the Designated Representative any error, inconsistency or omission he may or reasonably should discover.**

5.2.2 All soil and test borehole data, water table elevations, and soil analyses shown on the drawings or included in the specifications apply only at the locations of the test holes and to the depths indicated. Soil test reports for the test holes which have been drilled are available for inspection at the office of the Director of General Services. Any additional subsurface exploration shall be done by bidders or the Contractor at their own expense.

5.2.3 The indicated elevation of the water table is that existing at the date the test hole was determined. It is the Contractor's responsibility to determine and allow for the elevation of groundwater at the date of project construction. A difference in elevations between groundwater shown in soil boring logs and groundwater actually encountered during construction will not be considered as a basis for extra work.

5.3 SUPERVISION AND CONSTRUCTION PROCEDURES

5.3.1 The Contractor shall supervise and direct the Work, using the best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.

5.3.1.1 The Designated Representative may reject any means, methods, techniques, sequences or procedures proposed by the Contractor, which might constitute or create a hazard to the Work or to persons or property, or which will not provide Work in accordance with the Contract Documents. However, neither the Designated Representative's acceptance of nor its failure to reject any means, methods, techniques, sequences and procedures shall relieve the Contractor of its responsibilities to safely and properly complete the Work.

5.3.2 The Contractor shall be responsible to the Owner and the Designated Representative for the acts and omissions of its employees and all its Subcontractors and their agents and employees and other persons performing any of the Work under a contract with the Contractor.

5.3.3 Neither observations, inspections, tests or approvals by persons other than the Contractor shall relieve the Contractor from its obligations to perform the Work in accordance with the Contract Documents.

5.3.4 The Contractor shall do and be responsible for the correct horizontal and vertical layout out and completion of the Work as per the drawings and written instruction of the Designated Representative including all necessary leveling and checking. The Contractor shall protect and preserve all permanent survey monuments or bench marks and shall bear the expense of replacing any that may be disturbed without permission of the Designated Representative. Replacement of damaged permanent survey monuments or benchmarks shall be performed by a licensed land surveyor hired by the Owner.

5.3.5 The Contractor shall keep the Designated Representative informed of the plan and progress of its Work. No Work shall be closed or covered until it has been duly inspected and approved. Should uninspected Work be covered, the Contractor shall, at its own expense, uncover all such Work so that it can be properly inspected; and after such inspection, he shall properly repair and replace all such Work.

5.4 LABOR AND MATERIALS

5.4.1 The Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

5.4.1.1 The Contractor shall accept delivery and store, protect and provide security for any Owner-purchased materials, systems and equipment which are a part of the Work until such items are incorporated into the Work. The Contractor shall document receipt of such materials, systems and equipment on forms acceptable to the Designated Representative.

- 5.4.1.2 The Contractor shall furnish, install, connect, make operable, and test all heating, ventilating and air conditioning equipment, plumbing fixtures, lighting fixtures, kitchen equipment, and any other mechanical or electrical equipment shown on the plans or called for in the specifications or change orders. In connection therewith, the Contractor shall also furnish and install all necessary devices, hardware, and systems required to make said equipment properly and safely operable including, but not limited to, mounting hardware and framing, insulation, vibration control devices, duct systems, gas piping systems, hot and cold water systems, venting ducts, control systems, and electrical circuits.
- 5.4.1.3 The Contractor shall furnish and install complete utility systems ready for use and shall pay any special fees, permits or assessments required by the serving utility.
- 5.4.2 The Contractor shall at all times enforce strict discipline and good order among its employees and shall not employ on the Work any unfit person or anyone not skilled in the task assigned to him.
- 5.4.2.1 Any person employed, who is found to be incompetent, intemperate, troublesome, disorderly or otherwise objectionable, or who fails or refuses to perform its work properly and acceptably, shall be immediately removed from the work by the Contractor and not be re-employed on the work.
- 5.4.2.2 The Owner may remove and may order the Contractor to remove any person who is incompetent or otherwise objectionable from the site of the Work.
- 5.4.3 Approval of the Architect/Engineer under any substitution clause shall be obtained in writing before any substitution is made. In the event of the Contractor failing to obtain such approval, no consideration will be given to any appeal from the decision of the Architect/Engineer condemning any materials furnished.
- 5.4.4 Pursuant to the Public Contract Code, any reference in the specifications and plans to any brand name, article, device, product, materials, fixture, form or type of construction by brand name, make, or catalog number, such references shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition; and the Contractor, in such cases, may at its option use any article, device, product, materials fixture, form or type of construction which in the judgment of the Architect/Engineer expressed in writing is equal to that specified. The Contractor must within forty (40) days after award of the Contract submit data substantiating a request for substitution.
- 5.4.5 If the Contractor proposed to use a material which, while suitable for the intended use, deviates in any way from the detailed requirements of the Contract Documents he shall inform the Architect/Engineer through the Designated Representative in writing of the nature of such deviations at the time that the materials are submitted for approval and shall request a written approval of the deviation from the requirements of the Contract Documents.
- 5.4.6 In requesting approval of deviations or substitutions, the Contractor shall provide evidence leading to a reasonable certainty that the proposed substitutions or deviation will provide a quality of result at least equal to that otherwise attainable. If, in the opinion of the Architect/Engineer, the evidence presented by the Contractor does not provide a sufficient basis for such reasonable certainty, the Architect/Engineer may reject such substitution or deviation without further investigation.
- 5.4.7 The Architect/Engineer will judge the design and appearance of proposed substitutes on the basis of their suitability in relation to the overall design of the project, as well as for their intrinsic merits. The Architect/Engineer will not approve proposed substitutes as equal to items specified which, in its opinion, would be unharmonious, or otherwise inconsistent with the character or quality of design of the project.
- 5.4.8 Any additional cost, or any loss or damage, arising from the substitution of any material or method for those originally specified or drawn shall be borne by the Contractor, notwithstanding approval or acceptance of such substitution by the Owner or Architect/Engineer, unless such substitution was made at the written request or direction of the Owner or Architect/Engineer.
- 5.4.9 The investigation, review and approval of substitute materials requires a minimum of 30 calendar days additional time more than for specified items. The Contractor is required to assure the time impact will not delay its or other Contractor's Work when submitting (proposing) a substitution. Submittal of a substitution will be promptly rejected if the Contractor does not accept the delay responsibility in making its submittal.
- 5.4.10 The Contractor, its agents and employees shall be bound by and comply with all applicable provisions of the California Labor Code, and with Federal, State, and local laws related to labor.
- 5.4.11 The Contractor shall strictly adhere to the provisions of the California Labor Code regarding minimum wages, the eight-hour day and the forty-hour week, overtime, Saturday, Sunday, and holiday work and non-discrimination because of race, color, national origin, religion, sex, age, or physically handicapped when otherwise qualified. The Contractor shall forfeit to the Owner the penalties prescribed in the California Labor Code for violations.
- 5.4.12 The Contractor, as required by the California Labor Code, Sections 1770 et seq., the Contractor shall pay not less than the prevailing rate of per diem wages for each classification of worker employed as determined by the Director of the California Department of Industrial Relations. A copy of the general prevailing rate of per diem wages is available at the General Services Department to be viewed upon request. The Contractor shall post a

copy of such wage determination at each job site.

- 5.4.13 As provided in Section 1775 of the California Labor Code, as a penalty, the Contractor shall forfeit twenty-five dollars (\$25.00) for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for such work or craft in which such worker is employed for any public work done under the Contract by the Contractor or any Subcontractor under him.
- 5.4.14 The Contractor shall submit completed Payroll Reporting Forms for all Tradesmen employed on the Work with the monthly Progress Payment Application.
- 5.4.15 Payroll Reporting Forms shall be the forms prescribed by the Owner or computer generated payroll reporting forms which have been approved in writing by the Owner or the Designated Representative.
- 5.4.16 The Contractor's attention is directed to Sections 1777.5, 1777.6, and 1777.7 of the California Labor Code and Title 8, California Administrative Code Section 200 et seq.
- 5.4.17 To ensure compliance and complete understanding of the law regarding apprentices, and specifically the required ratio thereunder, the Contractor and Subcontractors should, where some question exists, contact the Division of Apprenticeship Standards prior to commencement of the Work. Responsibility for compliance with the law lies with the Contractor.
- 5.4.18 The Owner's policy is to encourage the employment and training of apprentices in its construction contracts as may be permitted under local apprenticeship standards.
- 5.4.19 As required by Section 1773.8 of the California Labor Code, the Contractor shall pay travel and subsistence payments to each worker needed to execute the Work, as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with this section.
- 5.4.20 To establish such travel and subsistence payments, the representative of any craft, classification, or type of workman needed to execute the Work shall file with the Department of Industrial Relations fully executed copies of collective bargaining agreements for the particular craft classification or type of work involved. Such agreements shall be filed within ten (10) days after their execution and thereafter shall establish such travel and subsistence payments whenever filed thirty (30) days prior to the call for bids.
- 5.4.21 The Contractor shall comply with all applicable provisions of Sections 1810 to 1815, inclusive of the California Labor Code relating to working hours. As a penalty, the Contractor shall forfeit twenty-five dollars (\$25.00) for each worker employed in the execution of the Work by the Contractor or by any Subcontractor for each calendar day during which such work is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week, unless such worker receives compensation for all hours worked in excess of these limits at not less than one and one half (1.5) times the basic rate of pay.

5.5 WARRANTIES AND GUARANTEES

- 5.5.1 The Contractor, prior to or at the time of Substantial Completion for the Work and during administrative closeout of the project, shall submit three (3) copies of all warranties and guarantees to the Designated Representative for subsequent transmittal to the Architect/Engineer and Owner. All guarantees and warranties shall be in writing on guarantors/warrantors' stationery or official forms and signed by a responsible company official, and shall be submitted in full force and effect by the Contractor.
 - 5.5.1.1 The Contractor warrants to the Owner and the Designated Representative that all materials and equipment furnished under this contract will be new unless otherwise specified and that all Work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All Work not so conforming to these requirements, including substitutions not properly approved or authorized, shall be considered defective unless specifically accepted by the Owner. If required by the Designated Representative, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. This warranty is not limited by the provisions of Paragraph 14.2.
 - 5.5.1.2 The warranty of materials, equipment and workmanship defined in 5.5.1 is separate from, independent of and in addition to any other guarantees in this contract or any other warranties required by the Contract Documents.
 - 5.5.1.3 Except as otherwise specified, all Work shall be guaranteed by the Contractor against defects resulting from the use of inferior materials, equipment or workmanship for one year from the date of Substantial Completion of the Project and acceptance/occupancy by the Owner in writing, provided that if prior to the acceptance of the entire project, the Owner occupies or uses any separate unit of Work, the guarantee period shall, as to the unit so occupied or used, commence on the date of such occupancy or use, with the further provision that the Owner shall have first agreed in writing that the separate unit shall be occupied or used by the Owner until such certificate has been given. Equipment and facilities, which have seasonal limitations on their operations, shall be guaranteed for one full year from the date of test and acceptance in writing by the Owner.
 - 5.5.1.4 If within any guarantee period, repairs or changes are required in connection the guaranteed Work, as the result of the use of materials, equipment or workmanship which are defective or inferior or not in accordance with the terms of the Contract, the Contractor shall, promptly, within 48 hours after receipt of notice from the Designated

Representative or Owner and without expense to the Owner or the Designated Representative, commence and continue to effect such repairs or changes.

- (a.) The Contractor shall place in satisfactory condition, in every particular, all of such guaranteed Work and correct all defects therein.
- (b.) The Contractor shall make good all changes to the structure or site or equipment or contents thereof, which, in the opinion of the Architect/Engineer and the Designated Representative is the result of the use of materials, equipment or workmanship which are inferior, defective or not in accordance with the terms of the Contract. The Contractor shall make good any Work or materials, or the equipment and contents of structures or site disturbed in fulfilling such guarantee.
- (c.) Notifications by Owner of defects shall stop the warranty time period. The guarantee or warranty period for that replaced or restored Work shall be reinstated for the remaining time period, starting on the date of acceptance of the replaced or restored Work.

5.5.1.5 In any case, where in fulfilling the requirement of the Contract or of any guarantee embraced in or required thereby, the Contractor disturbs any Work guaranteed under another contract, he shall restore such Work to a condition satisfactory to the Architect/Engineer and the Designated Representative and guarantee such restored Work to the same extent as it was guaranteed under such other contract.

5.5.1.6 If the Contractor, after notice, fails to proceed within 48 hours to commence and continue to comply with the terms of the guarantee, the Owner or Designated Representative may have the defect corrected in which case the Contractor and its surety shall be liable for all expenses incurred.

5.5.1.7 All special guarantees or warranties applicable to definite parts of the Work that may be stipulated in the Specifications or other papers forming a part of the Contract shall be subject to the terms of the Subparagraph 5.5.1.2 during the first year of the life of such special guarantee.

5.5.1.8 Nothing contained in Subparagraph 5.5.1 shall be construed to establish a period of limitation with respect to any other obligation which the Contractor might have under the Contract Documents, including liability for defective Work under Subparagraph 5.5.1. Subparagraph 5.5.1 relates to the specific obligation of the Contractor to correct the Work and does not limit the time within which its obligation to comply with the Contract Documents may be sought to be enforced, nor of the time within which proceedings may be commenced to establish the Contractor's Liability with respect to its other obligations under this contract.

5.5.1.9 In the event the Work of the Contractor is to be modified by another Contractor, either before or after the Inspection provided for in Subparagraph 10.7.1, the first Contractor shall remain responsible in all respects under the warranty given in Paragraph 5.5 and under any other warranties provided in the General Conditions or by law. However, the first Contractor shall not be responsible for any defects in materials or workmanship introduced by the Contractor modifying its Work. Both the first Contractor and the Contractor making the modifications shall be responsible solely for the Work done by each. The Contractor modifying the earlier Work shall be responsible for any damage to or defect introduced into the Work which it is modifying.

5.5.1.10 Warranties and guarantees shall clearly define what is to be guaranteed; the extent, terms, conditions, time and effective dates.

5.5.1.11 Copies of the same warranties and guarantees shall be included in the "Owner's Maintenance Manual" as specified herein.

5.5.2 The Owner shall schedule an end of warranty review meeting with the Designated Representative, Architect/Engineer, and Contractor prior to the end of one-year warranty to determine any work requiring correction.

5.6 CONTROL OF OPERATIONS AND EMPLOYEES

5.6.1 The Contractor shall not use any of the existing Owner's facilities, such as, but not limited to, toilets, cafeteria, parking areas, power hookup, except with the Owner's written approval.

5.6.2 The Contractor shall confine and perform its operations in those areas where construction is required. Contractor shall protect the contiguous non-construction property. The Contractor shall protect from damage all existing trees, utilities, or other improvements at the site. Should damage result from the Contractor's failure to exercise reasonable care in the performance of its Work, the Contractor shall repair or restore any such damage at its own expense.

5.6.3 Obnoxious behavior or possession or consumption of alcoholic beverages or drugs on the premises is strictly prohibited. Violators shall be promptly discharged from the site.

5.6.4 All roads, siding and other transportation facilities at the site where Work under the Contract is being performed are for the general use and the Contractor's operations must conform to the regulations of the local authorities. If the Work of a Contractor requires that such facilities be temporarily discontinued, after obtaining Designated Representative's and local authorities' approval, the Work shall be done expeditiously and detour roads, bridges

or other temporary structures shall be erected by such Contractor and maintained as directed.

- 5.6.4.1 To minimize public inconvenience and possible hazards and to restore streets and other work areas to their original condition and former state of usefulness as soon as practicable, the Contractor shall diligently prosecute the work to completion. If, in the Designated Representative's opinion the Contractor fails to prosecute the work to the extent that the above purposes are not being accomplished, the Contractor shall, upon orders from the Designated Representative, immediately take the steps necessary to fully accomplish said purposes. All costs of prosecuting the work as described herein shall be borne by the Contractor. Should the Contractor fail to take the necessary steps to fully accomplish said purposes, after orders of the Designated Representative to do so, the Owner may suspend the work in whole or in part, until the Contractor takes said steps.
- 5.6.4.2 As soon as possible under the provisions of these specifications, the Contractor shall back fill all excavations and restore to usefulness all improvements existing prior to the start of the work.
- 5.6.4.3 If work is suspended through no fault of the Owner, all expenses and losses incurred by the Contractor during such suspensions shall be borne by him. If the Contractor fails to properly provide for public safety, traffic, and protection of the work during periods of suspension, the Owner may elect to do so, and deduct the cost thereof from monies due the Contractor. Such action will not relieve the Contractor from liability.
- 5.6.5 The Contractor shall not disturb any existing structure, piping, apparatus or other Work unless expressly required by the contract. Where cutting, drilling or removals are required in existing walls, floor or roof construction, the Work shall be done in such a manner to safeguard and not endanger the structure and shall in all cases be as approved by the Architect/Engineer. Prior to any cutting, drilling or removals, the Contractor shall investigate both sides of the surface involved, shall determine the exact location of adjacent structural members by visual examination and shall avoid interference with such members. No structural members, such as joists, beams or columns supporting Work that are to remain shall be cut, drilled or removed unless such conditions are shown in detail on the Drawings and reinforcing of members affected or new members to compensate for such cutting, drilling and removals are shown. If unforeseen obstructions are encountered, the Contractor shall take all precautions necessary to prevent damage and shall apply for and obtain full instructions from the Designated Representative, in writing, before proceeding with the Work.
- 5.6.6 Rights of way or easements for the improvement as shown on the plans will be provided by the Owner. Unless otherwise provided, the Contractor shall make its own arrangements, pay for, and assume all responsibility for acquiring, using, and disposing of additional work areas and facilities temporarily required by him. The Contractor shall indemnify and hold the Owner, Designated Representative, and Architect/Engineer harmless from all claims for damages occasioned by such actions.
- 5.6.7 The Contractor shall remove and dispose at no cost to the Owner and with the Owner's approval, existing improvements for which no specific disposition is made on the plans but which could interfere with the work.

5.7 PERMITS, FEES AND NOTICES

- 5.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for all permits including encroachment permits, governmental fees, licenses and inspections necessary for the proper execution and completion of this Work, which are customarily secured after execution of the contract and which are legally required at the time bids or proposals are received.
- 5.7.1.1 The Project pays County Building Permit Fees.
- 5.7.1.2 The Owner will pay for building permits required by other governmental entities.
- 5.7.1.3 The Contractor shall sign for all building permits and shall be responsible for all inspections required.
- 5.7.2 The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the Work.
- 5.7.3 Unless otherwise provided in the Contract Documents, it is the responsibility of the Contractor to make certain that the Contract Documents are in accordance with the applicable laws, statutes, building codes and regulations. If the Contractor observes that any of the Contract Documents are at variance therewith in any respect, he shall promptly notify the Designated Representative in writing and any necessary changes shall be by appropriate Modification.
- 5.7.4 If the Contractor performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations and without such notices to the Designated Representative he shall assume full responsibility therefore and shall bear all costs attributable thereto.

5.8 ALLOWANCES

- 5.8.1 The Contractor shall include in the Contract Sum as defined in Subparagraph 10.1.1, all allowances stated in the Contract Documents. Items covered by these allowances shall be supplied for such amounts and by such persons as the Designated Representative may direct, but the Contractor will not be required to employ persons against whom he makes a reasonable objection.

- 5.8.2 Unless otherwise provided in the Contract Documents, all allowances shall cover the cost to the Contractor, less applicable trade discount, of the materials and equipment required by the allowances delivered at the site and all applicable taxes.
- 5.8.3 Unless otherwise provided in the Contract Documents, the Contractor's costs for unloading and handling (including hoisting) on the site, labor, installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Sum and not in the allowance.
- 5.8.4 Unless otherwise provided in the Contract Documents, whenever the cost is more than or less than the allowance, the Contract Sum shall be adjusted accordingly by Change Order, the amount of which recognizes changes, if any, in handling costs on the site, labor, installation costs, overhead, profit and other expenses.

5.9 SUPERINTENDENT

- 5.9.1 The Contractor shall employ an experienced, competent superintendent and necessary assistants who shall be in attendance at the Project site full time during the progress of the Work until the date of Substantial Completion and for such additional time thereafter as the Designated Representative may deem necessary for the expeditious completion of the Work. The superintendent shall be satisfactory to the Designated Representative and shall not be changed without the consent of the Designated Representative, unless the superintendent proves to be unsatisfactory to the Contractor or ceases to be in its employ. The superintendent shall represent the Contractor and all communications given to the superintendent shall be as binding as if given to the Contractor. Important communications shall be confirmed in writing. Other communications shall be so confirmed on written request in each case.
- 5.9.2 The Contractor shall submit a job organization chart and resumes which identify the key personnel he intends to assign to the project, to the Designated Representative within 48 hours after receipt of the Notice to Proceed. The Owner, acting through the Designated Representative, reserves the right to approve the Contractor's proposed personnel and anyone not so approved shall be immediately replaced by someone acceptable. If in the course of construction, the Owner, on advice of the Designated Representative, determines that it would be in its best interest to request a change in the Contractor's personnel, he may do so; and the Contractor shall immediately assign a suitable replacement who is acceptable to the Owner and the Designated Representative at no additional cost.
- 5.9.2.1 A duly authorized representative of the Contractor shall be available for emergency telephone communication from the Owner or Designated Representative on a 24 hour basis, seven days a week during the performance of the Work.

5.10 CONSTRUCTION SCHEDULE

- 5.10.1 Submission of Schedule and Format
- 5.10.1.1 Within 5 calendar days of the Notice to Proceed, the Contractor shall submit to the Designated Representative a construction Schedule covering the entire project.
- 5.10.1.2 The Schedule shall be prepared utilizing the critical path method of scheduling. The Schedule will show the Contractor's plan for construction in sufficient detail to indicate the sequence of construction and planned dates for achieving major milestones.
- 5.10.1.3 The maximum duration for any single activity will be twenty (20) working days, with the exception of "Fabrication and Delivery" activities. Although portions of the Work may take longer than 20 working days, all work shall be presented in the schedule to allow for monitoring of progress through completion of incremental activities with a duration not exceeding 5 days.
- 5.10.1.4 A sufficient number of activities will be carried in the schedule so that each subcontract subdivision is represented and the planned start and completion of each Subcontractor's Work can be determined.
- 5.10.1.5 All submittals required by the specifications will be scheduled along with the approval period (fifteen calendar days minimum) and fabrication and delivery periods.
- 5.10.1.6 The Contractor shall submit to the Designated Representative for approval a hand prepared critical path schedule and bar charts. The hand prepared schedule shall contain the following information and shall be presented in a legible format acceptable to the Designated Representative. In lieu of the hand prepared documents, a computer generated schedule and reports may be submitted.

(a.) The critical path schedule shall indicate for each activity:

Description
Original Duration
Remaining Duration
Percentage Complete
Total Float (critical path highlighted)

Responsibility Code (who will perform the work)
Early Start/Finish Dates (current update)
Late Start/Finish Dates (current update)
Predecessor and Successor Activities to the activity (arrow connections)

- (b.) The Contractor shall submit a bar chart schedule listing all activities in the schedule as organized by responsibility, area or date as approved by the Designated Representative. The bar chart shall include all the information listed in paragraph (a.) above for each activity except the listing of predecessor and successor activities.

5.10.1.7 If construction must commence during Schedule preparation and approval period, the Contractor shall prepare a sixty (60) calendar day schedule to cover the initial field construction and submittals. Activities on this Schedule should have maximum durations of five (5) days to allow for monitoring of progress through completion of the incremental activities.

5.10.1.8 The Schedule documents will be submitted in six (6) copies. At the time of submittal, The Contractor's lead on-site manager or superintendent will make a presentation to the Designated Representative on the planned construction sequence/schedule. Within thirty (30) calendar days of receipt, the Designated Representative will notify the Contractor, in writing, as to any objections to the Schedule submitted. If the Schedule is deemed objectionable, the Contractor will have five (5) calendar days from receipt to revise the schedule and resubmit it as above. The Contractor's presentation will include, but not be limited to:

- (a.) Describing the sequence and phasing of work.
- (b.) Delineating any area subdivision used to plan the work sequence/schedule.
- (c.) Identifying the critical path.
- (d.) Identifying when the milestone events specified herein are planned to be achieved (earliest and latest times).
- (e.) Any plans for shift work, weekend work, or extended work weeks and non-work days (i.e. holidays observed).
- (f.) Any planned interruptions of building power, water, communications, or other utilities.
- (g.) Any assumptions used in planning and sequencing the work.
- (h.) Long lead fabrication items.
- (i.) Manpower projections for the project.
- (j.) Noise/dust control measures.
- (k.) Safety plan.
- (l.) Plans for moving materials into the building and removing refuse and debris.
- (m.) Any other planning information requested by the Owner or its Designated Representative prior to the presentation.

5.10.2 Updating of the Schedule

5.10.2.1 The Schedule documents will be updated monthly at a minimum to reflect progress through the "Data Date". All contract changes as they are agreed to shall be specifically incorporated into the appropriate Schedule update. The Data Date may be the last working day of the month or it may be the "closure" date of the requisition for payment, as the Contractor may choose and as approved by the Designated Representative. However, when one of the above Data Dates is selected, it will be used throughout the project. The update will be submitted within seven (7) calendar days following the Data Date.

5.10.2.1 The Contractor shall submit marked up copies of the approved critical path schedule and the bar chart indicating progress through the data date. If the Contractor has elected to submit a computer generated schedule, monthly update reports and schedule plots shall be submitted as directed by the Designated Representative.

5.10.3 Revision of the Schedule

5.10.3.1 Every effort shall be made by all parties to Work in accordance with the accepted Project Schedule. The Schedule will be revised only if the actual status of Work cannot be brought into conformance with the existing Schedule. If the Schedule is revised, the revised Schedule will be submitted as if any initial Schedule.

5.10.4 Minor Changes of the Schedule

5.10.4.1 The Schedule is not considered to be "revised" if the Contractor must make minor changes, such as: (a.)

Adding additional details to a sub-network to facilitate coordination of subcontract Work.

(b.) Additions/deletions/modifications of Schedule activities to reflect Work added or deleted by change order.

5.10.5 Extensions of Contract Time

5.10.5.1 All claims for extensions to contract time shall be supported by a detailed comprehensive analysis of the accepted Schedule. This analysis shall provide sufficient supporting evidence to justify a time extension. No time claims will be considered without the supporting analysis. If a time extension is granted, it shall be included in the next update of the Schedule.

- 5.10.6 During Construction
- 5.10.6.1 Construction milestone event dates will be incorporated into the detailed Construction Schedule as "target dates". These dates will be clearly noted and fixed on the Schedule graphics and corresponding computer file. It is the intent that the Work will be undertaken so as to achieve each target date and thereby achieve overall project completion as specified in the Contract.
- 5.10.6.2 The milestone event target dates will not be revised unless delays beyond the control of the Contractor occur.
- 5.10.6.3 If, when the Schedule is updated, the planned dates for achieving any milestone(s) falls more than ten (10) working days behind the target date(s), and if this has occurred through no fault of the Owner, the Architect/Engineer or their consultants, the Contractor may be directed by the Owner or the Designated Representative, to take any and all actions required to bring the actual construction back into accordance with the target dates.
- 5.10.6.4 When the Contractor falls behind its schedule and is not entitled to any time extension other than extensions already reflected in the current approved schedule, he shall submit its plan for bringing the Work back up to schedule and shall implement the plan. If other measures will not be sufficient to make up the lag, the Contractor's plan and implementation thereof shall include, but not be limited to increasing the number of shifts and days of Work, additional Work, additional equipment, increasing manpower and expediting deliveries, all at the Contractor's sole expense.
- 5.10.6.5 If the Contractor works overtime, more than forty (40) hours per week, Saturdays, Sundays or holidays; whether by choice or by necessity, the Contractor shall be responsible for the reimbursement of the Owner for additional costs incurred for the Owner's, Designated Representative's and Architect/Engineer's overtime services.
- 5.10.6.6 In the event the Contractor fails or refuses to implement such measures as will bring its Work back up to conformity with the approved schedule, its right to proceed with any or all portions of the Contract requirements may be canceled or suspended; but permitting the Contractor to proceed shall in no way operate as a waiver of any rights of the Owner or deprive the Owner of its rights under any provisions of this contract.
- 5.10.6.7 The Contractor shall include milestone activities in the Schedule as applicable to the Work. Milestone events shall at a minimum include the following:
- (a.) Demolition and Excavation complete
 - (b.) Start foundation concrete
 - (c.) Complete footings and piers
 - (d.) Complete all subgrade concrete construction
 - (e.) Each level's structural slab complete
 - (f.) Roof level structural slab complete
 - (g.) Penthouse Level structural slab complete
 - (h.) Begin structural steel
 - (i.) Complete structural steel
 - (j.) Complete decks/structure
 - (k.) Permanent power available
 - (l.) Temporary heating/cooling available
 - (m.) Begin roofing
 - (n.) Complete roofing
 - (o.) Begin exterior facades (p.) Complete exterior facades
 - (q.) Begin exterior glazing
 - (r.) Complete exterior glazing
 - (s.) Building dry-in
 - (t.) Elevators operational
 - (u.) Begin mechanical/electrical/plumbing rough-in
 - (v.) Begin building controls
 - (w.) Complete building controls
 - (x.) System start-up
 - (y.) Begin partition rough-in (z.) Complete partition rough-in (aa) Begin drywall
 - (bb) Begin finishes and millwork
 - (cc) Complete finishes and millwork
 - (dd) Begin site work and landscaping
 - (ee) Complete grading
 - (ff) Begin underground utilities
 - (gg) Complete underground utilities
 - (hh) Complete site paving
 - (ii) Complete landscaping
 - (jj) Substantial completion
 - (kk) Start installation of Owner furnished equipment
 - (ll) Project complete/beneficial occupancy

5.10.7 Owner Directed Schedule

- 5.10.7.1 On projects involving extensive coordination between the Contractor and the Owner's ongoing operations, the Owner may issue with the Contract Documents an Owner Directed Schedule which shall be used by the Contractor in preparing its plan of operations. The Contractor shall not deviate from the Owner Directed Schedule without the written prior approval of the Owner or Designated Representative. As indicated in Paragraph 5.10.6, the Contractor may be directed by the Owner or Designated Representative to take any and all actions required to perform the actual construction in accordance with the Owner Directed Schedule and its "target dates".

5.11 SUBMITTAL SCHEDULE

- 5.11.1 The Contractor shall prepare a schedule of required submittals not later than fourteen (14) days after the receipt of the Notice to Proceed. The schedule shall include a complete list of items requiring shop drawings, design mixes, material certification, product data, brochures, catalog cuts, etc., to be approved by the Architect/Engineer. The Contractor shall coordinate all submittals requiring approvals by code enforcement agencies and shall include these special approvals in the submittal schedule. The schedule is to be submitted on a form approved by the Designated Representative. The schedule shall be updated monthly or as required by the Designated Representative. All shop drawings and other submittals shall be accompanied by a transmittal letter and reference should be indicated to the item numbers of the above-mentioned schedule. The Contractor is to indicate the following in its submittal schedule.

- (a.) Description of item
- (b.) Specification division, page numbers, article and paragraph
- (c.) Type of submittal (shop drawings, sample, product data)
- (d.) Date that submittal shall be delivered to the Designated Representative's office.
- (e.) Date that Contractor must have approval.
- (f.) Date that material, equipment must be on site in order to maintain the Contractor's progress schedule.

- 5.11.2 The Contractor's submittal schedule shall allow reasonable time (15 calendar days minimum) for review by the Designated Representative and the Architect/Engineer, and revision or correction, resubmittal and approval, sufficiently in advance of the time that the item is scheduled for incorporation into the Work.

- 5.11.3 The Designated Representative and the Architect/Engineer shall review the Contractor's submittal schedule for completeness, fulfillment of Specification requirements and compatibility with the anticipated construction schedule. The sequence and duration of Contractor, Architect/Engineer, Designated Representative activities on the submittal schedule may be adjusted by the Designated Representative.

5.12 DRAWINGS AND SPECIFICATIONS AT THE SITE

- 5.12.1 The Contractor shall maintain at the site for the Designated Representative and the Architect/Engineer, two (2) copies of all drawings, specifications, addenda, change orders, responses to requests for information, proposals and other modifications, in good order and marked currently to record all changes made during the construction, including any changes in locations, size and arrangement of the various components of the Work or any other variations from the drawings or shop drawings. The Contractor shall mark each drawing as the Work shown thereon is completed in the field, revising any or adding lines, dimensions, elevations, depths, notes or any other information required to accurately record conditions. These drawings, marked to record all changes during the construction and approved shop drawings, product data, samples, addenda, change orders, responses to requests for information, proposals and other records of modifications shall be delivered to the Designated Representative, for the Owner, upon completion of the Work.

- 5.12.1.1 In addition to maintaining and delivering to the Designated Representative those record drawings required by Subparagraph 5.12.1, the Contractor shall also prepare and submit to the Designated Representative, upon completion of the Work, record reproducible drawings if the technical specifications so require.

5.13 USE OF SITE

- 5.13.1 The Contractor shall confine operations at the site to areas approved by the Designated Representative, permitted by law, ordinances, permits and the Contract Documents and shall not unreasonably encumber the site with any materials or equipment.

- 5.13.2 The Contractor shall not disturb existing monuments and markers at the site. Should monuments or markers or both be disturbed at any time by the Contractor, he shall bear the cost of a licensed surveyor engaged by the Owner for the purpose of relocating such monuments or markers.

- 5.13.3 The Contractor shall lay out its Work and shall be responsible for the accuracy of all lines, elevations and measurements, grading, utilities and other Work executed by him under its Contract. He must exercise proper precaution to verify figures shown on drawing before laying out Work and will be held responsible for any error resulting from its failure to exercise such precaution.

- 5.13.4 All discrepancies shall be brought to the attention of the Designated Representative in writing for review and direction before proceeding with the Work. Should the Contractor proceed without direction, he shall be

responsible to make whatever changes are necessary and pay call costs incurred by that Contractor, the Designated Representative, the Owner or other Contractors.

5.13.5 Any enclosure including safety barricades, perimeter rails, opening covers and devices required to protect the Work, workmen, materials or equipment shall be provided by the Contractor.

5.13.6 Weather protection shall be supplied by the Contractor and shall include all enclosure, supplemental heating and furnishing all other features (insulation, etc.), or meeting conditions required by the Designated Representative or by the specifications relative to the Contractor's Work, to protect the Work and any materials stored on site.

5.13.7 Protection of finished Work until acceptance shall be furnished by the Contractor.

5.14 CUTTING AND PATCHING WORK

5.14.1 The Contractor shall be responsible for all cutting or patching that may be required to complete the Work or to make its several parts fit together properly. He shall provide protection of existing Work as required.

5.14.2 The Contractor shall not damage or endanger any portion of the Work or the Work of any separate contractors by cutting, patching or otherwise altering any Work or by excavation. The Contractor shall not cut or otherwise alter the Work of any separate contractor except with the written consent of the Designated Representative and of such separate contractor. The Contractor shall not unreasonably withhold from any separate contractor its consent to cutting or otherwise altering the Work.

5.14.3 The Contractor shall not cut, weld to or otherwise alter any structural member without the written consent of the Architect/Engineer obtained through the Designated Representative.

5.15 DAILY AND FINAL CLEAN UP

5.15.1 The Contractor shall be responsible for daily and final clean up and continuous removal of all rubbish and debris from the building and site.

5.15.1.1 The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by its operations. At the completion of the Work he shall remove all its waste materials and rubbish from and about the Project, as well as all its tools, construction equipment, machinery and surplus materials.

5.15.2 The job site shall be maintained in a neat and orderly condition and kept free from accumulations of waste materials and rubbish during the entire construction period. Remove all crates, cartons and other flammable waste materials or trash from the Work areas at the end of each working day to appropriate waste hauling receptacles.

5.15.3 Elevator shafts, electrical closets, pipe and duct shafts, chases, furred spaces and similar spaces which are generally unfinished, shall be cleaned and left free from rubbish, loose plaster, mortar drippings, extraneous construction materials, dirt and dust before Substantial Completion inspection.

5.15.4 The Contractor shall be responsible for the cleaning of all surfaces as necessary to make them free of spatters or other deposits of paint, plaster, mortar, concrete, adhesives, roofing, dirt, soil, oil, and all other materials foreign to the surface involved.

5.16 COMMUNICATIONS

5.16.1 The Contractor shall forward all communications to the Owner and Architect/Engineer through the Designated Representative.

5.16.1.1 The Contractor shall promptly return telephone calls or respond to any other form of communication initiated by the Designated Representative. Failure to promptly do so shall be considered lack of performance on the part of the Contractor.

5.16.1.2 All written correspondence to the Designated Representative shall be dated and signed by the Contractor or its authorized representative.

5.16.2 Weekly project progress review meetings will be conducted with Designated Representative, Architect/Engineer, their consultants as necessary, and Contractor in attendance. The Designated Representative may call for special meetings of the Contractor, Subcontractors and material suppliers as he deems necessary for the proper coordination of the Work. Such meetings shall be held at the job site on regular working days during regular working hours. Unless otherwise directed by the Designated Representative, attendance shall be mandatory for all parties notified to attend the meeting.

5.17 ROYALTIES AND PATENTS

5.17.1 The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner and Designated Representative harmless from loss on account thereof, except that the Owner shall be responsible for all such loss when a particular design, process or the product of a

particular manufacturer or manufacturers is specified, but if the Contractor has reason to believe the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the Designated Representative.

5.18 INSURANCE

5.18.1 Indemnification

5.18.1.1 CONTRACTOR shall defend, indemnify and save harmless the COUNTY, its officers, agents and employees from any and all claims, demands, damages, costs, expenses (including attorney's fees), judgments or liabilities arising out of this Agreement or occasioned by the performance or attempted performance of the provisions hereof; including, but not limited to, any act or omission to act on the part of the CONTRACTOR or its agents or employees or other independent contractors directly responsible to him; except those claims, demands, damages, costs, expenses (including attorney's fees), judgments or liabilities resulting from the sole negligence or willful misconduct of the COUNTY.

5.18.1.2 CONTRACTOR shall notify the COUNTY immediately in the event of any accident or injury arising out of or in connection with this Agreement.

5.18.2 Insurance Requirements for Contractor

5.18.2.1 Without limiting the CONTRACTOR's indemnification of the COUNTY, CONTRACTOR shall procure the following required insurance coverage's at its sole cost and expense. All insurance coverage's are to be placed with insurers which (1) have a Best's rating of no less than A: VII, and (2) are admitted insurance companies in the State of California. All other insurers require the prior approval of the COUNTY. Such insurance coverage shall be maintained during the term of this Agreement. Failure to comply with the insurance requirements shall place CONTRACTOR in default. Upon request by the COUNTY, CONTRACTOR shall provide a certified copy of any insurance policy to the COUNTY within ten (10) working days.

5.18.2.2 Workers' Compensation Insurance: Statutory Workers' Compensation and Employers Liability Insurance shall cover all CONTRACTOR's staff while performing any work incidental to the performance of this Agreement. The policy shall provide that no cancellation, or expiration or reduction of coverage shall be effective or occur until at least thirty (30) days after receipt of such notice by the COUNTY. In the event CONTRACTOR is self-insured, it shall furnish a copy of Certificate of Consent to Self-Insure issued by the Department of Industrial Relations for the State of California. This provision does not apply if CONTRACTOR has no employees as defined in Labor Code Section 3350 et seq. during the entire period of this Agreement and CONTRACTOR submits a written statement to the COUNTY stating that fact.

5.18.2.3 General and Automobile Liability Insurance: The general liability insurance shall include bodily injury, property damage and personal injury liability coverage, shall afford coverage for all premises, operations, products and completed operations of CONTRACTOR and shall include contractual liability coverage sufficiently broad so as to include the insurable liability assumed by the CONTRACTOR in the indemnity and hold harmless provisions [above] of the Indemnification Section of this Agreement between COUNTY and CONTRACTOR. The automobile liability insurance shall cover all owned, non-owned and hired motor vehicles that are operated on behalf of CONTRACTOR pursuant to CONTRACTOR's activities hereunder. CONTRACTORS shall require all subcontractors to be included under its policies or furnish separate certificates and endorsements to meet the standards of these provisions by each subcontractor. COUNTY, its officers, agents, and employees shall be Additional Insured status on any policy. A cross liability clause, or equivalent wording, stating that coverage will apply separately to each named or additional insured as if separate policies had been issued to each shall be included in the policies. A copy of the endorsement evidencing that the policy has been changed to reflect the Additional Insured status must be attached to the certificate of insurance. The limit of liability of said policy or policies for general and automobile liability insurance shall not be less than \$1,000,000 per occurrence and \$2,000,000 in the aggregate. Any deductible or Self-Insured Retention (SIR) over \$10,000 requires approval by the COUNTY.

Said policy or policies shall include a severability of interest or cross liability clause or equivalent wording. Said policy or policies shall contain a provision of the following form: "Such insurance as is afforded by this policy shall be primary and non-contributory to the full limits stated in the declarations, and if the COUNTY has other valid and collectible insurance for a loss covered by this policy, that other insurance shall be excess only."

If the policy providing liability coverage is on a 'claims-made' form, the CONTRACTOR is required to maintain such coverage for a minimum of three years following completion of the performance or attempted performance of the provisions of this agreement. Said policy or policies shall provide that the COUNTY shall be given thirty (30) days written notice prior to cancellation or expiration of the policy or reduction in coverage.

5.18.2.4 CONTRACTOR shall submit to the office of the designated COUNTY representative certificate(s) of insurance documenting the required insurance as specified above prior to this Agreement becoming effective. COUNTY shall maintain current certificate(s) of insurance at all times in the office of the designated County representative as a condition precedent to any payment under this Agreement. Approval of insurance by COUNTY or acceptance of the certificate of insurance by COUNTY shall not relieve or decrease the extent to which the CONTRACTOR may be held responsible for payment of damages resulting from CONTRACTOR'S services of operation pursuant to the contract, nor shall it be deemed a waiver of COUNTY'S rights to insurance coverage

hereunder. In the event the CONTRACTOR is not able to comply with the COUNTY'S insurance requirements, COUNTY may, at their sole discretion and at the CONTRACTOR'S expense, provide compliant coverage.

- 5.18.2.5 The above insurance requirements are subject to periodic review by the COUNTY. The COUNTY's Risk Manager is authorized to change the above insurance requirements, with the concurrence of County Counsel, to include additional types of insurance coverage or higher coverage limits, provided that such change is reasonably based on changed risk of loss or in light of past claims against the COUNTY or inflation. This option may be exercised during any **amendment** of this Agreement **that results in an increase in the nature of COUNTY's risk** and such change of provisions will be in effect for the term of the **amended** Agreement. Such change pertaining to types of insurance coverage or higher coverage limits must be made by **written** amendment to this Agreement. CONTRACTOR agrees to execute any such amendment within thirty (30) days of acceptance of the amendment or modification.

5.19 CONTRACTOR QUALITY CONTROL SYSTEM

- 5.19.1 The Contractor shall provide and maintain an effective quality control program of Contractor inspection system, which will assure that all supplies and services required under the Contract conform to the Contract Documents whether constructed or processed by the Contractor or procured from subcontractors or vendors. The Contractor shall substantiate that all supplies and services conform to the Contract Documents and shall also perform or have performed all inspections and tests otherwise required by the Contract Documents unless the required inspection and test is specifically designated to be performed by the Owner or the Owner's designated representative. Mechanical and electrical personnel, either engineers or highly qualified technicians shall be provided during the testing, balancing, adjusting and regulating mechanical and electrical devices and systems. The Contractor's inspection system shall be documented, as specified herein, and shall be available for review by the Designated Representative prior to the start of construction and throughout the life of the Contract. The Contractor shall notify the Designated Representative in writing of any proposed change to its inspection system and change shall be subject to disapproval if they would, in the opinion of the Designated Representative, result in non-conformance with the Contract requirements. The Contractor's inspection system shall include the minimum requirements stated below. The Contractor's full time job site superintendent may function as the Contractor's Contractor Quality Control representative.
- 5.19.1.1 Preparatory Inspection: The Contractor's Quality Control organization shall perform prior to the beginning any Work on any definable segment of Work; a review of contract requirements; a check to assure that all materials and equipment have been tested, submitted and approved; a check to assure that provisions have been made to provide required control testing; examination of the Work area to ascertain that all preliminary Work has been completed; and a physical examination of materials and equipment to assure that they conform to approved shop drawings or submittal data and that all material and equipment are on hand. As a part of this preparatory Work, the Contractor's Quality Control organization will review and certify all shop drawings, certificates and other submittal data prior to submission to the Designated Representative. Each submittal offered to the Designated Representative will bear the date and the signature of a member of the Contractor's Quality Control organization indicating that he has reviewed the submittal and certified it to be in compliance with the Contract Documents (or showing the required change). The Designated Representative shall be notified a minimum of seventy two (72) hours prior to the beginning of a Preparatory Inspection.
- 5.19.1.2 Initial Inspection: The Contractor's Quality Control organization shall perform, as soon as a representative segment of the particular item of Work has been accomplished, an examination of the quality of workmanship and a review of control testing for compliance with Contract Requirements, use of defective or damaged materials, omissions, and dimensions requirements.
- 5.19.1.3 Follow-Up Inspection: The Contractor's Quality Control organization shall perform daily, or as frequently as necessary, follow up inspections to assure continuing compliance with Contract Requirements, including control testing, until completion of the particular segment of the Work.
- 5.19.1.4 The Contractor shall maintain current records on an appropriate approved format of all inspections and tests performed. These records should provide factual evidence that the required inspections or tests have been performed, including type and number of inspections or tests involved; results of inspections or tests; nature of defects, causes for rejection, etc.; proposed remedial action and corrective actions taken. The Contractor shall not build upon or conceal any feature of the Work containing uncorrected defects, and payment on deficient items will be withheld until satisfactorily corrected or other actions taken as authorized. These records must cover both conforming and defective items and shall include a statement that all supplies and materials, incorporated in the Work, are in full compliance with the terms of the contract. Legible copies shall be furnished to the Designated Representative. The report will cover all Work placement subsequent to the previous report and will be verified by the prime Contractor's Quality Control representative. The Contractor shall include in all subcontracts, purchase orders or other agreements, either written or oral, with a commercial testing laboratory for quality control testing under the subject Contract, a requirement that copies of any test reports, data or other information relating to tests conducted by said laboratory under this Contract, be mailed simultaneously to the Designated Representative when said report, data or other information are mailed or delivered to the Contractor.
- 5.19.1.5 The Contractor shall establish controls necessary to assure scheduled completion dates established by the Contract are not impacted by the delinquent submittal data and operational tests. Sixty (60) days in advance of the Substantial Completion and prior to scheduling a pre-final inspection of the Work, or any phase of Work, under the Contract, the Contractor's Quality Control organization shall submit to the Designated Representative a complete and factual report of all remaining submittals, inspections and tests required prior to acceptance of the

Work. The report shall include the following:

- (a.) A list of outstanding shop drawing submittals or re-submittals requiring approval by the Contractor.
- (b.) A list of manuals, test reports, spare parts, keys, etc., to be furnished to the Designated Representative and scheduled submittal dates.
- (c.) Schedule of required operations tests and instruction periods.
- (d.) Scheduled delivery dates for materials or equipment impacting contract completion dates.
- (e.) Plan of action by the Contractor for correcting all known contract deficiencies including delay in scheduled progress.

5.19.1.6 The Contractor shall maintain marked-up documents depicting Record Document conditions. These drawings will be maintained in a current condition at all times until completion of the Work and will be available for review by the Designated Representative at all times. All variations from the Contract Documents, for whatever reason, including those occasioned by the required coordination between trades, will be indicated. These variations will be shown in the same general detail utilized in the Contract Documents. Upon Substantial Completion, the marked-up documents shall be furnished to the Designated Representative for delivery to the Owner or the Owner's designated representative. The Contractor shall also furnish Record Documents as provided in the Technical Provisions of the specifications.

5.19.1.7 After the Contract is awarded and before construction operations are started, the Contractor shall meet with the Designated Representative and discuss the inspection system requirements. The meeting shall develop mutual understanding relative to details of the Contractor's Quality Control system including the form to be used for recording the inspection, administration of the system and the interrelationship of the Contractor and the Designated Representative. The Contractor shall furnish to the Designated Representative within five (5) days after receipt of the Notice to Proceed, an inspection system plan which shall include the procedures, instructions and reports to be used. No progress payments will be processed under this Contract until the inspection plan is acceptable to the Owner and the Designated Representative. The Contractor's Quality Control plan documentation will include the following minimum elements:

- (a.) The inspection organization.
- (b.) Number and qualifications of inspection personnel to be used.
- (c.) Authority and responsibilities of inspection personnel.
- (d.) Schedule of use of inspection personnel by types and phase of Work.
- (e.) Methods of inspection, including Subcontractor's work.
- (f.) Test methods including as specified, name of qualified testing laboratory to be used, if applicable.
- (g.) Method of documenting inspection and testing.
- (h.) A copy of a letter of direction to the Contractor's Quality Control representative responsible for the quality control inspection, outlining its duties and responsibilities and signed by a responsible officer of the firm.

5.19.1.8 The Contractor's Quality Control inspection system shall provide for procedures which will assure that the latest applicable drawings, including shop drawings, specifications and instruction required by the contract, as well as authorized changes thereto, are used for fabrication, inspection and testing.

5.19.1.9 The Designated Representative and the Architect/Engineer reserves the right to inspect at source supplies or services not manufactured or performed within the Contractor's facility. The Designated Representative's and the Architect/Engineer's inspection shall not constitute acceptance, nor shall it in any way replace Contractor inspection or otherwise relieve the Contractor of its responsibility to furnish an acceptable end item. When inspection at Subcontractor's plant is performed by the Designated Representative, such inspection shall not be used by Contractor as evidence of effective inspection by such Subcontractor.

5.19.1.10 The Designated Representative may notify the Contractor or its Quality Control representative at the site of noncompliance with the foregoing provisions. This notice may be in writing by a form titled "Deficiency Correction Report" or "Notice of Noncompliance". The Contractor shall immediately, upon receipt of said notice, indicate the corrective action which will be taken and the date by which it will be complete, and submit this data for the Designated Representative's approval. If the Contractor refuses to comply promptly with these requirements, the Designated Representative may issue an order stopping all or part of the Work until satisfactory corrective action has been taken. No part of the time lost or cost of damages due to such stop orders shall be compensable and payment representing the noncompliance item and corrective action will be withheld until the Designated Representative has approved the corrective action.

5.19.1.11 Each of the Contractor's Quality Control Inspectors shall be responsible for inspecting the Work under its surveillance for compliance with OSHA Standards for the Construction Industry Section and approved safety program and shall immediately bring to the attention of the Contractor's supervisory personnel any unsafe Work conditions and instance of noncompliance noted.

5.19.2 Certificates of Compliance: The Designated Representative may require certificates of compliance with the specifications for materials or manufactured items produced outside of the job site. Such certificates will not relieve the Contractor from the requirements of providing material and manufactured items complying with the

specifications even though they have been incorporated into the job.

- 5.19.3 Weighing Equipment: All scales used for proportioning materials shall be inspected for accuracy and certified within the past twelve (12) months by the State of California Bureau of Weights and Measures, by the County Director or Sealer of Weights and Measures, or by a Scale Mechanic registered with or licensed by the County.
- 5.19.3.1 The accuracy of the work of a scale service agency, except as stated herein, shall meet the standards of the California Business and Professions Code and the California Administrative Code pertaining to weighing devices. A certificate of compliance shall be presented prior to operation to the Designated Representative for approval and shall be renewed whenever required by the Designated Representative at no cost to the Owner.
- 5.19.3.2 All scales shall be so arranged that they may be read easily from the operator's platform or area. They shall indicate the true net weight without the application of any factor. The figures of the scales shall be clearly legible. Scales shall be accurate to within 1% when tested with the plant shut down. Weight equipment shall be so insulated against vibration or moving of other operating equipment in the plant area that the error in weighing with the entire plant running will not exceed 2% for any setting nor 1-1/2% for any batch.

5.20 COMPLETION INSPECTIONS

- 5.20.1 Contractor's Quality Control Completion Inspection: Based upon the Designated Representative's concurrence that the Work is nearing Substantial Completion, at least 15 days prior to pre-final inspection, the Contractor's Quality Control Inspection personnel shall conduct a detailed inspection. The Designated Representative shall be notified of the inspection date in order that he may participate, if he so elects. The Work shall be inspected for conformance to plans, specifications, quality, workmanship and completeness. The Contractor shall prepare an itemized list of Work not properly completed, inferior workmanship or not conforming to Contract Documents. The list shall also include outstanding administrative items such as Record Documents, operations and maintenance manuals, spare parts, installed property list, etc. The list shall be included in the Quality Control documentation and submitted to the Designated Representative with an estimated date for correction of each deficiency within five (5) working days after conducting this inspection.
- 5.20.2 Pre-Final Inspection: The Contractor's Quality Control Inspection personnel, its superintendent, or other primary management person and the Designated Representative will be in attendance at this inspection. Additional Owner personnel, including but not limited to those from the Owner's General Services Department user groups, Board of Supervisors and the Architect/Engineer may be in attendance. The pre-final inspection will be formally scheduled by the Owner or the Designated Representative based upon notice from the Contractor. This notice will be given to the Owner or the Designated Representative at least fifteen (15) days prior to the pre-final inspection and must include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with the remaining Contract Work will be complete and acceptable by the date scheduled for the pre-final inspection. Failure of the Contractor to have all Contract Work acceptably complete for this inspection will be the cause of the Owner or the Designated Representative to be reimbursed by the Contractor for the additional inspection costs of the Owner or the Designated Representative. At this inspection, the Owner or the Designated Representative will develop a specific list of incomplete and unacceptable Work performed under the Contract and will subsequently furnish this list to the Contractor. Failure of the Owner or the Designated Representative to detect or list all incomplete and unacceptable Work during this inspection will not relieve the Contractor from acceptably performing all Work required by the Contract Documents. The Owner or the Designated Representative, at their option, may accept this inspection as the final acceptance inspection, if in its opinion the completion status of the inspected facilities and other Work performed under the Contract warrant this consideration.
- 5.20.3 Final Acceptance Inspection: The Contractor's Quality Control Inspection personnel, its superintendent or other primary management persons and the Owner or the Designated Representative will be in attendance at this inspection. Additional Owner personnel including, but not limited to, those from the Owner's General Services Department, user groups, Board of Supervisors and the Architect/Engineer may also be in attendance. The final acceptance inspection will be formally scheduled by the Owner based upon the Contractor's written assertion to the Owner that the Work is complete. This notice will be given to the Owner or the Designated Representative at least fifteen (15) days prior to the final acceptance inspection and must include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining Work performed under the Contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. Failure of the Contractor to have all Work acceptably complete for this inspection will be cause for the Owner and the Designated Representative to bill the Contractor for any additional inspection costs.
- 5.20.4 If, in the Designated Representative's judgment, the work has been completed in accordance with the plans and specifications and is ready for acceptance he will so certify to the Owner, which may accept the completed work. The Designated Representative will, in its certification to the Owner, give the date when the work was completed. This will be the date when the Contractor is relieved from responsibility to protect the work. This will also be the date to which liquidated damages will be computed.

5.21 WARRANTY OF CONSTRUCTION

- 5.21.1 Performance Bond: The Performance Bond shall remain in effect for a 12 month warranty period after the date of substantial completion, as determined by the County. Extended warranty periods shall be provided under manufacturer warranties, as required by project specifications.

- 5.21.2 In the event that the Contractor or its designated representative fails to commence and diligently pursue all Work required under Paragraph 5.5 within a reasonable time after receipt of written notification pursuant to the requirements thereof, the Owner or the Designated Representative shall have the right to demand that said Work be performed under the Performance Bond by making written notice on the surety. If the surety fails or refuses to perform the obligation it assumed under the Performance Bond, the Owner or the Designated Representative shall have the Work performed by others, and after completion of the Work, shall make demand for reimbursement of any or all expenses incurred by the Owner while performing the Work, including, but not limited to, administrative personnel.
- 5.21.3 Warranty repair work which arises to threaten the health or safety of personnel or the safety of property or equipment will be handled by the Contractor on an immediate basis as directed verbally by the Owner or the Designated Representative. Written verification will follow the Owner's or the Designated Representative's verbal instructions. Failure of the Contractor to respond as verbally directed will be cause for the Owner or the Designated Representative to have the warranty repair work performed by others and to proceed against the Contractor as outlined in Paragraph 5.21.2 above.
- 5.21.4 Pre-Warranty Conference: Prior to Substantial Completion and at a time designated by the Owner or the Designated Representative, the Contractor shall meet with the Owner or the Designated Representative to develop a mutual understanding with respect to the requirements of Paragraph 5.5 of this specification. The Owner or the Designated Representative shall establish communication procedures for the Contractor notification of warranty defects, priorities with respect to the type of defect and reasonable time required for the Contractor response and other details deemed necessary by the Owner or the Designated Representative for the execution of the construction warranty. In connection with these requirements, the Contractor will furnish the name, telephone number and address of a licensed and bonded company which is authorized to initiate and maintain warranty Work action on behalf of the Contractor. This single point of contact will be located within the local service area of the warranted construction and will be responsive to the Owner's inquiry on warranty Work action and status. This requirement does not relieve the Contractor of any of its responsibilities in connection with Paragraph 5.5.

5.22 SUBCONTRACTS

- 5.22.1 Each bidder shall file with its bid the name, license number, and the location of the place of business of each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the Contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of one percent of the Contractor's total bid. Each bidder shall state the portion of the work which will be done by each subcontractor under this act. The Contractor shall list only one subcontractor for each such portion as is defined by the Contractor in its bid.
- 5.22.2 In each instance, the nature and extent of the work to be sublet shall be described. The failure of the Contractor to specify a subcontractor, or the listing of more than one subcontractor for the same portion of the work, constitutes an agreement by the Contractor that he is fully qualified to perform that portion himself, and that he shall perform that portion himself.
- 5.22.3 The Contractor must have the written consent of the Owner to substitute a subcontractor other than that designated in the original bid, to permit any subcontract to be assigned or transferred, or to allow a subcontract to be performed by other than the original subcontractor. The Contractor shall submit an acknowledgement signed by the original subcontractor that there is no objection to its replacement by another subcontractor. Any substitution of subcontractors must comply with California Public Contract Code.
- 5.22.4 Subcontracting of work for which no subcontractor was designated in the original bid, and which is more than one-half of one percent of the work, will be allowed only in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the Owner, setting forth the facts constituting the emergency or necessity.
- 5.22.5 Violation of any of the above provisions will be considered a violation of the Contract, and the Owner may cancel the Contract or assess the Contractor a penalty of not more than 10% of the subcontract involved.
- 5.22.6 All persons engaged in the work, including subcontractors and their employees, will be considered as employees of the Contractor. He will be held responsible for their work. The Owner will deal directly with, and make all payments to the Contractor.
- 5.22.7 When subcontracted work is not being prosecuted in a satisfactory manner, the Contractor will be notified to take corrective action. If the Owner so orders, and on receipt by the Contractor of written instructions from the Owner, the subcontractor shall be removed immediately from the work. He shall not again be employed on the work.

5.23 LAWS TO BE OBSERVED

- 5.23.1 The Contractor shall keep himself fully informed of State and National laws and County and municipal ordinances and regulations which in any manner affect those employed in the work or the materials used in the work or in any way affect the conduct of the work. He shall at all times observe and comply with all such laws, ordinances and regulations.

- 5.23.2 Santa Barbara County Ordinance 2946 Unlawful Discrimination in Employment Practices: Contractor agrees with the County of Santa Barbara that it will not discriminate against any employee or applicant for employment in violation of any applicable State or Federal laws, rules or regulations which may now or hereafter specifically prohibit such discrimination on such grounds as race, religion, sex, color, national origin, physical handicap when otherwise qualified, Vietnam era veteran/disabled or age. If it is determined by the Board of Supervisors upon recommendation of the Affirmative Action Officer and the County Counsel that during the life of this contract any such unlawful discriminations have occurred, the County Board of Supervisors may forthwith terminate this contract. Contractor further agrees that whether or not the term of this contract is still in existence at the time of final determination of such unlawful discrimination, that it will forthwith reimburse the County for any and all damages, costs and expenses incurred in connection with such unlawful discrimination, including but not limited to damages from loss of Federal or State grants, subventions or loans; costs of processing, investigating and reporting complaints of unlawful discrimination; additional costs or expenses incurred in completion of this agreement by another party if this agreement is terminated before completion; all costs of suit including reasonable attorney's fees incurred in collecting any such damages, costs and expenses; and interest at 7% on all such damages, costs and expenses from the date they are incurred to date of payment.
- 5.23.2.1 Employment practices shall include, but are not limited to employment, promotion, demotion, transfer, recruitment and advertising for recruitment, layoff or other termination, rates of pay, employee benefits and all other forms of compensation, selection for training and apprenticeship and probationary periods.
- 5.23.2.2 Contractor further agrees to permit access at all reasonable times and places to all of its records of employment advertising, application forms, tests and all other pertinent employment data and records, to the County of Santa Barbara, its officers, employees and agents for the purpose of investigation to ascertain if any unlawful discrimination as described herein has occurred or is being practiced. Failure to fully comply with any of the foregoing provisions relating to unlawful discrimination in employment practices shall be deemed to be a material breach of this contract.

ARTICLE 6: SUBCONTRACTORS

6.1 DEFINITION

- 6.1.1 A Subcontractor is a person or entity who has a direct contract with a Contractor to perform any of the Work at the site. The term Subcontractor is referred to throughout the Contract Documents as if singular in number and masculine in gender and means a Subcontractor or its authorized representative.
- 6.1.2 Nothing in the Contract Documents shall create any contractual relationship between the Owner, the Architect/Engineer or the Designated Representative and any Contractor, any Subcontractor, or any Sub-subcontractor or its authorized representative.

6.2 SUB-CONTRACTUAL RELATIONS

- 6.2.1 By an appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor, by the terms of the Contract Documents and to assume toward the Contractor all the obligations and responsibilities which the Contractor, by these documents, assumes toward the Owner, the Designated Representative or the Architect/Engineer. Said agreement shall preserve and protect the rights of the Owner, the Designated Representative and the Architect/Engineer under the Contract Documents with respect to the Work to be performed by the Subcontractor so that the subcontracting thereof will not prejudice such rights and shall allow to the Subcontractor, unless specifically provided otherwise in the Contractor-Subcontractor agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Documents has against the Owner or Designated Representative. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with its Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the Subcontract, copies of the Contract Documents to which the Subcontractor will be bound by this Paragraph 6.3 and shall identify to the Subcontractor any terms and conditions of the proposed Subcontract which may be at variance with the Contract Documents. Each Subcontractor shall similarly make copies of such Documents to its Subcontractors.

ARTICLE 7: SEPARATE CONTRACTS

7.1 OTHER CONTRACTORS

- 7.1.1 The Owner reserves the right to let other separate contracts in connection with the Work of the Project. The Contractor shall cooperate with other separate contractors and he shall afford the Designated Representative and other Contractors reasonable opportunity for the introduction and storage of their materials and equipment and execution of their Work and shall properly connect and coordinate its Work with others under the general direction of the Designated Representative. Temporary structures, equipment or materials shall be located where directed by the Designated Representative and if not so located, they shall be moved by the Contractor when directed at no additional cost.

7.2 CONTRACTOR TO INSPECT OTHER WORK

- 7.2.1 If any part of the Contractor's Work depends, for proper execution or results, upon the Work of the Designated Representative or any separate contractor, the Contractor shall, prior to proceeding with the Work, inspect and measure Work already in place and promptly report to the Designated Representative any discrepancies from the drawings and specifications or defects in such Work that render it unsuitable for such proper execution and results. The Contractor shall submit the report of discrepancies or defects in the form of a written request for information. Failure of the Contractor to so report shall constitute an acceptance of the other contractor's Work as fit and proper to receive its Work, except as to defect which may develop after the execution of its Work.
- 7.2.2 Copies of Drawings and specifications relating to these separate contracts will be available to the Contractor, upon request, for its information in carrying out the above provisions. The Contractor shall be held responsible for any damage or misfit resulting from its neglect to comply with the foregoing.

7.3 COORDINATION AND COOPERATION

- 7.3.1 The Contractor shall coordinate Work to be done hereunder with the Work of such other contractors in such manner as the Designated Representative may direct. The Work shall be scheduled and executed at such time and in such a way as to cause the least inconvenience to the Owner and with proper consideration for the rights of other contractors and public. The Contractor shall keep fully informed with the entire operation and install its Work promptly.
- 7.3.2 If the Designated Representative determines that the Contractor is failing to coordinate its Work with the Work of other contractors as directed, he may, upon written notice to the Contractor recommend the following actions by the Owner:
- 7.3.2.1 The Owner may withhold any payment otherwise due hereunder until the Designated Representative's directions are complied with by the Contractor.
- 7.3.2.2 The Owner, through the Designated Representative, may direct other contractors to perform portions of the contract and charge the cost of such Work to the contract amount.
- 7.3.2.3 The Owner may terminate any and all portions of the contract for the Contractor's failure to perform in accordance with the contract.
- 7.3.3 If the Contractor notifies the Designated Representative, in writing, that another contractor on this project is failing to coordinate its Work with the Work of this contract, as directed, the Designated Representative will promptly investigate the charge. If he finds it to be true, he will promptly issue such directions to the other contractor with respect thereto as the situation may require. The Designated Representative shall not, however, be liable for any damages suffered by this contractor by reason of the other contractor's failure to promptly comply with the directions so issued by the Designated Representative or by reason of another contractor's default in performance; it being understood that the Designated Representative does not guarantee the responsibility or continued efficiency of any contractor.
- 7.3.4 In the event of any labor dispute, affecting the Contractor or its employees, the Contractor shall utilize all possible means to resolve the dispute in order that the project not be delayed to any extent.
- 7.3.5 The Contractor shall cooperate with the Owner, the Architect/Engineer and the Designated Representative and other Contractors working on this project in order to avoid interference, inconvenience or damage. To aid in avoiding conflicts, the Contractor, without additional charge, shall make all reasonable modification in the Work as may be directed by the Designated Representative. In the event of the Contractor's operations causes any damage, interference, or inconvenience to Work being carried out under any other contract, the Contractor shall restore, replace, rectify, or otherwise make good any damage to the satisfaction of the Designated Representative or to the other contractors. Should the responsible Contractor fail to comply with this provision, the Work will be done by others at the expense of the responsible Contractor.
- 7.3.6 The Contractor shall ensure that all labor employed by him, its agents, or those he assigns for Work on the project shall be in harmony with and be compatible with all other labor being used by the Designated Representative or other Contractors. The Contractor shall observe hours and conditions of labor as directed by Designated Representative and in any event, in compliance with all applicable laws, ordinances and regulations. The Contractor shall coordinate its work with the work of other Contractors, the Owner and the Designated Representative and shall provide adequate information and planning of its work to allow for effective coordination by others with its operations. Whenever the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of the Work of this contract, the Contractor shall immediately give notice thereof to the Designated Representative. The Contractor shall then confirm the notice, in writing within 24 hours of the giving thereof, and shall include all relevant information with respect thereto. No claims will be accepted for costs incurred as a result of jurisdictional or labor practice disputes.

7.4 OWNER'S RIGHT TO CLEAN UP

- 7.4.1 If a dispute arises between the separate contractors as to their responsibility for cleaning up as required by Paragraph 5.15, the Owner may clean up and charge the cost thereof to the Contractor responsible therefore as the Owner shall determine to be just.

7.5 DAMAGES TO WORK

- 7.5.1 Should the Contractor wrongfully cause damage to the Work or property of the Owner or to other Work on the site, the Contractor shall promptly remedy such damage.
- 7.5.2 Should the Contractor wrongfully cause damage to the Work or property of any other Contractor, the Contractor shall, upon due notice, promptly attempt to settle with the other Contractor by agreement, or otherwise resolve the dispute. If such other Contractor sues the Owner or the Designated Representative or initiates any legal proceeding against the Owner or the Designated Representative on account of any damage alleged to have been caused by the Contractor, the Owner or Designated Representative shall notify the Contractor who shall defend such proceedings at the Contractor's expense and if any judgment or award against the Owner or Designated Representative arises from, the Contractor shall pay or satisfy it and shall reimburse the Owner or Designated Representative for all attorney's fees and court costs which the Owner or Designated Representative has incurred.
- 7.5.3 Should the Contractor sustain any damage through any act or omission of any other contractor having a contract for the performance of Work upon the site or of Work which may be necessary to be performed for the proper execution of the Work to be performed hereunder, the Contractor shall have no claim against the Owner, Architect/Engineer, Designated Representative or the Owner's consultants for such damage, but shall have a right to recover such damage from the other contractor as provided herein.
- 7.5.4 The Contractor shall indemnify and hold the Owner, Architect/Engineer and Designated Representative harmless from any and all claims or judgments for damages and from costs and expenses to which the Owner and Designated Representative may be subjected or which either may suffer or incur by reason of the Contractor's failure to comply with the Designated Representative's directions promptly.

ARTICLE 8: MISCELLANEOUS PROVISIONS

8.1 GOVERNING LAW

8.1.1 This contract shall be governed by the laws of the State of California.

8.2 SUCCESSORS AND ASSIGNS

8.2.1 The Owner and the Contractor each binds himself, its partners, successors, assignees and legal representatives to the other part hereto and to the partners, successors, assignees and legal representatives of such other parties in respect to all covenants, agreements and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract nor sublet it as a whole without written consent of the other.

8.2.1.1 The Contractor shall not assign any monies due, or to become due, under this Contract without prior written consent of the Owner obtained through the Designated Representative.

8.3 WRITTEN NOTICE

8.3.1 Written notice shall be deemed to have been duly served if delivered in person to the individual or member of the firm or entity or to an officer of the corporation for whom it was intended, or if delivered at or sent by the registered or certified mail to the last business address known to him who gives the notice.

8.4 CLAIMS FOR DAMAGES

8.4.1 Should either party to the Contract suffer injury or damage to person or property because of any act or omission of the other party or of any of its employees, agents or others for whose acts he is legally liable, claims shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

8.5 PERFORMANCE BOND AND LABOR MATERIAL PAYMENT BOND

8.5.1 The Contractor shall deliver to the Designated Representative, on forms approved by the Designated Representative and Owner, all executed and Standard Performance Bond and Standard Labor Material Payment Bond and a one (1) year Maintenance (Warranty) Bond, both with an approved surety acceptable to the Owner or Designated Representative and each payable in the amount at least equal to one hundred (100%) percent of the accepted bid as guarantee for the faithful performance of the Contractor and the payment of all persons who have, and fulfill, contracts which are directly with the successful bidder. The sureties of all bonds shall be of such security company or companies as are approved by the Designated Representative and the Owner. No Contract shall be deemed to be in effect until all bonds have been approved.

8.5.2 The insurance and bonding companies providing or underwriting such bonding shall be duly authorized and registered to do business in the State of California and shall be acceptable to the Owner and the Designated Representative.

8.5.3 The performance bond required by the Contract Documents shall remain in full force and effect during the warranty periods required by the Contract so as to give the Designated Representative and Owner recourse on the bond if the Contractor fails to remedy defects during the warranty period.

8.5.4 The Contractor's Payment and Performance Bond shall name the Owner as obligee.

8.6 RIGHTS AND REMEDIES

8.6.1 The duties and obligations imposed by the Contract Documents and the rights and remedies available there under shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

8.6.2 No action or failure to act by the Designated Representative, Architect/Engineer or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract Documents nor shall any such action or failure to act constitute an approval or acquiescence in any breach there under, except as may be specifically agreed in writing.

8.7 TESTS

8.7.1 If the Contract Documents, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any portion of the Work to be inspected, tested or approved, the Contractor shall give the Designated Representative timely notice of its readiness so the Architect/Engineer and Designated Representative may observe such inspection, testing, or approval. The Owner shall bear all costs of such inspections, tests or approvals unless otherwise provided. The Contractor shall bear all costs of retesting any work failing to pass initial testing.

8.7.2 If the Architect/Engineer or Designated Representative determine that any Work requires special inspection, testing, or approval which Subparagraph 8.7.1 does not include, he will, through the Designated Representative,

instruct the Contractor to prepare for such special inspection, testing or approval and the Contractor shall give notice as in Subparagraph 8.7.1. If such special inspection or testing reveals a failure of the Work to comply with the requirements of the Contract Documents, Contractor shall bear all costs thereof, including compensation for the Architect/Engineer's and the Designated Representative's additional services made necessary by such failure. If the Work complies, the Owner shall bear such costs and an appropriate Change Order shall be issued.

- 8.7.3 Where operating tests are specified, the Contractor shall test its Work as it progresses, on its own account and shall make satisfactory preliminary tests in all cases before applying to the Designated Representative for official tests.
- 8.7.4 Official tests shall be made as directed by the Designated Representative, in the manner specified, for the different branches of the Work or portions thereof. The Contractor shall furnish all materials and apparatus, make connections and conduct the official test under the observation of the Owner's independent testing agency where appropriate. The official test will be conducted in the presence of a representative of the Designated Representative. Should defects appear, they shall be corrected by the Contractor and the official test repeated until the installation is acceptable to the Designated Representative.
- 8.7.5 Required certificates of inspection, testing or approval shall be secured by the Contractor and promptly delivered by him through the Designated Representative to the Architect/Engineer.
- 8.7.6 If the Architect/Engineer or Designated Representative is to observe the inspections, tests or approval required by the Contract Documents, he will do so promptly and, where practicable, at the source of supply.
- 8.7.7 The Contractor shall deliver test samples of any of the materials specified in any of the Sections of the Specifications to the Owner's testing agency. This may apply to materials proposed for use, materials already delivered to the job, or materials already incorporated into the construction.
- 8.7.8 Neither the observations of the Architect/Engineer or the Designated Representative in their Administration of the Construction Contract, nor inspections, tests or approvals by persons other than the Contractor shall relieve the Contractor from its obligation to perform the Work in accordance with the Contract Documents.
- 8.7.9 Any materials which fail to meet the requirements of these specifications shall not be used whether or not previously approved by the Architect/Engineer. If they have been delivered to the job, they shall be removed. If they have already been incorporated into the construction, the Designated Representative or Architect/Engineer may order them removed, or, at the discretion of the Owner through the Designated Representative, they may be permitted to remain in place, providing the Contractor agrees to a proper deduction from the contract sum.
- 8.7.10 The services of a testing and inspection engineer, selected by the Owner, Designated Representative and Architect/Engineer, shall be provided and paid for by the Owner for the tests required in the various sections, unless specifically stated otherwise or due to deficient Work.
- 8.8 No Work of any kind shall be covered or enclosed before it has been tested and approved.

8.9 ORDER OF PRECEDENCE

- 8.9.1 In the event of any conflict or discrepancy in the provisions of the Contract Documents, the documents shall be interpreted on the basis of the following order or priority:
- (a.) Agreement between the Owner and the Contractor
 - (b.) Addenda, with later date having greater priority
 - (c.) Special Conditions
 - (d.) General Requirements and Other Conditions
 - (e.) Drawings and Specifications
- 8.9.2 In the case of an inconsistency between Drawings and Specifications or within either Document not clarified by addendum the better quality or greater quantity of Work shall be provided in accordance with the Architect/Engineer's and Designated Representative's interpretation.

ARTICLE 9: TIME

9.1 DEFINITIONS

- 9.1.1 Unless otherwise provided, the Contract Time is the period of time allotted in the Contract Documents for the Substantial Completion of the Work as defined in Subparagraph 9.1.3 including authorized adjustments thereto.
- 9.1.2 The date of commencement of the Work is the date established in a Notice to Proceed (NOP) from the Owner.
- 9.1.3 The Date of Substantial Completion of the Work or designated portion thereof is the date certified by the Architect/Engineer when construction is sufficiently complete in accordance with the Contract Documents, so that the Owner can occupy or utilize the Work or designated portion thereof for the use for which it is intended.

- 9.1.4 The term Day, as used in the Contract Documents, shall mean calendar day unless otherwise specifically designated.
- 9.1.5 Compensable Delay is a delay of the entire project caused solely by an action by the COUNTY. A delay triggered by both the Contractor and County will not invoke a compensable delay claim.

9.2 PROGRESS AND COMPLETION

- 9.2.1 All time limits stated in the Contract Documents are of the essence of the Contract.
- 9.2.2 The Contractor shall begin the Work on the date of commencement as defined in Subparagraph 9.1.2. He shall carry the Work forward expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time. The actual date on which the Contractor starts work will not affect the required time for completion of the work.
- 9.2.3 The Contractor shall furnish sufficient forces, plant and equipment and shall Work such hours, including night shifts and lawful overtime operations as may be necessary to ensure the execution of the Work in accordance with the Construction Schedule. If, in the opinion of the Designated Representative, the Contractor falls behind the progress schedule, the Contractor shall take such steps as may be necessary to improve its progress and shall submit its plans demonstrating the manner in which the desired rate of progress may be regained. It shall be the responsibility of the Contractor to maintain its schedule so as not to delay the progress of the project. If the Contractor delays the progress of the project, he shall, in order to maintain the overall schedule, take all necessary actions, not limited to an increase in the number of shifts, days of Work and to the extent permitted by law, to institute or increase overtime operations, all without additional cost.
- 9.2.4 If the Designated Representative determines that the Contractor, without just cause, fails or refuses to employ an adequate working force, or to employ them for a maximum number of hours per day as permitted by law or by shifts of its working forces as would be sufficient, in the opinion of the Designated Representative to complete the Work in accordance with the approved project schedule or within the time to which such completion may be extended, then after formal notice to the Contractor, the Owner shall have the right to complete or to have the Work completed by such means and in such manner, by contract or otherwise, as permitted by law, as the Owner may deem advisable, utilizing for such purpose such of the Contractor's plant, materials, equipment, tools and supplies remaining on the site. Formal notice in this article shall be telegram, or registered letter to the last known business address of the Contractor.
- 9.2.5 The expense of such completion shall be charged against and deducted out of such money as would have been payable to the Contractor if he had completed the Work; the balance of such moneys, if any, subject to the other provisions of this contract, to be paid to the Contractor without interest after completion. Should the expense of such completion, so certified by the Designated Representative, exceed the total sum which would have been payable under this contract, if the same had been completed by the Contractor or its surety, the surety shall remit such balance due to the Owner upon its demand.
- 9.2.6 Whether or not the Contractor's right to proceed is terminated, he and its surety will be liable for any damage to the Owner, other Contractors and the Designated Representative from the Contractor's refusal to complete the Work in accordance with the approved progress schedule or within the time for which such completion may be extended. Formal notice in this article shall be by telegram, or registered letter to last known business address of the Contractor.
- 9.2.7 The permitting of the Contractor or the surety on the performance bond to proceed to complete all Work or any part of it after the date of Substantial Completion or after the date to which the time for Substantial Completion may have been extended, shall in no way operate as a waiver on the part of the Owner of any of its rights hereunder.
- 9.2.8 In order to expedite the completion of the Contractor's Work, the Designated Representative may direct the Contractor to Work on the basis of two (2) shifts instead of one (1) or to take such other measures as he deems necessary to expedite construction. If the need for such direction is not attributable to delays or other fault on the part of the Contractor, the Owner shall pay the Contractor any additional net cost. If, however, the Contractor is behind schedule due to its own delays or other fault on its part and the Designated Representative directs him to Work additional shifts, expedite deliveries or purchase additional materials or equipment in order to bring its Work up to schedule, all additional costs shall be borne by the Contractor.
- 9.2.9 With the Designated Representative's approval, the Contractor shall suspend any Work that may be subject to damage by climatic conditions. Under such conditions, the Contractor shall take measures to protect the Work and to minimize the impact on the progress of the Work.

9.3 DELAYS AND EXTENSIONS OF TIME

- 9.3.1 If the Contractor is delayed at any time in the progress of the Work by any act or neglect of the Owner, Designated Representative or the Architect/Engineer or by any employee of either, or by any separate contractor employed by the Owner, or by changes ordered in the Work, or by labor disputes, fire, unusual delay in transportation, adverse weather conditions not reasonably anticipated, unavoidable casualties or any causes beyond the Contractor's control, or by delay authorized by the Owner or Designated Representative pending

litigation, or by any other cause which the Designated Representative determines may justify the delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Director of General Services may determine.

For such claim of delay to be compensable the Contractor must demonstrate that the delay is the result and sole cause of the Owner; not associated to a delay caused by both the Contractor and Owner; not associated to a delay out (like Acts of God, Strike or the like) of the control of the Owner or a delay not resulting in the delay of the contracted end date of the Project. The Contractor must demonstrate with reasonable accuracy both the extent and singular cause of the delay and how that may have either affected the contracted project end date or contributed to the extension of the project end date.

- 9.3.2 Any claim for extension of time shall be made in writing to the Designated Representative not more than ten (10) days after commencement of the delay; otherwise, it shall be waived. Any claim for extension of time shall state the cause of the delay and the number of days of extension requested. If the cause of the delay is continuing, only one claim is necessary, but the Contractor shall report the termination of the cause for the delay within ten (10) days after such termination and shall simultaneously make final claim for said delay, otherwise any claim for extension of time based upon that cause shall be waived.
- 9.3.3 In the event of a delay attributable in part to the Contractor and in part to causes for which the Contractor is not responsible, then provided the Contractor has given proper and timely notice hereunder, the delay shall be equitably apportioned among the parties causing it and the Contractor shall remain liable for the portion not so excused.
- 9.3.4 If no agreement is made stating the dates upon which interpretations as set forth in Subparagraph 3.2.2 shall be furnished, then no claim for delay shall be allowed on account of failure to furnish such interpretations until fifteen days after written request is made for them and not then, unless such claim is reasonable.
- 9.3.5 If the Project is delayed as a result of the Contractor's refusal or failure to begin the Work on the date of commencement, as defined in Subparagraph 9.1.2, or its refusal or failure to carry the Work forward expeditiously with adequate forces, equipment, material or other resources, the Contractor shall be liable to the Owner for damages for every day Contractor's scheduled completion is exceeded, provided, however, that such refusal or failure is not the result of a justifiable delay as defined in Subparagraph 9.3.1.
- 9.3.6 Neither the Owner, Architect/Engineer, nor Designated Representative shall have liability to the Contractor nor to any other Contractor or subcontractor for delay, hindrance or interference in the performance of the Work, however caused, except for delay or hindrance resulting from active interference of the Owner or its representatives in such Contractor's execution of the Work.
- 9.3.7 In addition to damages, as defined in Subparagraph 9.3.5, the Contractor shall be liable to the Owner for any damages sustained as the result of the Contractor's refusal or failure to perform the Work, provided however that such refusal or failure is not the result of a justifiable delay as defined in Subparagraph 9.3.1.
- 9.3.8 Contractor shall not request additional time to complete the project because of delays occurring on Sundays or holidays. Neither shall he request additional time for Saturday delays except and unless he can show proof of normally working on Saturdays in order to complete the Work on time.
- 9.3.9 Anticipated Normal Weather Days: The time estimated by the Contractor for completion of the entire Work ready for use shall include the number of calendar days, for anticipated delays due to normal weather conditions. No time extensions for delays due to weather will be allowed until and unless such delays exceed the time included for normal weather delays. In case of claims for extension of time because of abnormal inclement weather, such extension of time shall be granted only because such abnormal inclement weather prevented the execution of major items of Work on normal working days. A weather table reflecting the meteorological data from the Santa Barbara area is given following the General Conditions and will be used to determine any contract time extension due to abnormally inclement weather. For the purpose of this contract, "abnormal inclement weather" will be interpreted as the number of days in excess of the normal on which rainfall exceeds 0.01 inch or snow/ice pellets exceed 1.0 inch. Extension of time to complete the project will be based on actual working days, i.e., Saturdays, Sundays and holidays will be considered in granting extension of time.
- 9.3.10 Liquidated Damages: The Owner will suffer financial loss if the project is not substantially complete on the date set forth in the Contract Documents. The Contractor and its surety shall be liable for and pay to the Owner, hereinafter stipulated as fixed, agreed and liquidated damages for each consecutive calendar day of delay until the Work is substantially complete, the sum noted in the Notice to Bid. The Owner reserves the right to withhold the liquidated damages, incurred because of failure to complete the project on time, from the final payment to the Contractor. The Owner reserves the right to withhold liquidated damages from any progress payments occurring after the contract completion date.
- 9.3.11 If a suspension of work is ordered by the Designated Representative, due to the failure on the part of the Contractor to carry out orders given or to perform any provision of the contract, the days on which the suspension order is in effect shall be considered working days if such days are working days as defined.

ARTICLE 10: PAYMENTS AND COMPLETION

10.1 CONTRACT SUM

- 10.1.1 The Contract Sum is stated in the Agreement between the Owner and the Contractor including adjustments thereto and is the total amount payable to the Contractor for the performance of the Work under the Contract Documents.
- 10.1.2 Payment for work performed or materials furnished under an assessment proceedings contract will be made as provided in the particular proceedings or legislative act under which such contract was awarded.
- 10.1.3 Whenever any portion of the work is performed by the Owner at the Contractor's request, the cost thereof shall be charged against the Contractor, and may be deducted from any amount due or becoming due from the Owner.

10.2 SCHEDULE OF VALUES

- 10.2.1 Within fifteen (15) days after award of the contract and at least fifteen (15) days before the first Application for Payment, the Contractor shall submit to the Designated Representative a schedule of values allocated to the various portions of the Work prepared in such a form and supported by such data to substantiate its accuracy as the Designated Representative may require. This schedule, unless objected to by the Designated Representative, shall be used only as a basis for the Contractor's Application for Payment.
- 10.2.2 The schedule of values shall equal in total the Contract Sum and shall correctly represent a reasonable apportionment of the Contract Sum.
- 10.2.3 When a bid item is included in the proposal form and subject to the limitation and conditions in the contract documents, the Contractor shall itemize in the schedule of values the costs of mobilization work in advance of construction operations and not directly attributed to any specific bid item. When no such bid item is provided, payment for mobilization costs will be considered in the other items of work.
- 10.2.4 With said Schedule of Values contractor shall provide to Owner's Designated Representative copies of hourly wage rates for all workers in all trades associated with the job. If, during the course of construction, wage rates change, the contractor shall provide to Owner's Designated Representative copies of revised hourly wage rates the same day as said change is adopted or agreed-upon.

10.3 APPLICATION FOR PAYMENT

- 10.3.1 The Designated Representative will, after award of the contract, establish a closure date for the purpose of making monthly progress payments. The Contractor may request in writing that such monthly closure date be changed. The Designated Representative may approve such request when it is compatible with the Owner's payment procedures.
 - 10.3.1.1 Each month, the Contractor will make an approximate measurement of the work performed to the closure date and as a basis for making monthly payments, estimate its value based on the contract unit prices or as provided for in the approved schedule of values. At a fixed date each month as established by the Designated Representative during the progress of the Work, the Contractor shall render to the Designated Representative a notarized Application for Payment for a portion of the Contract Price, broken down into the categories itemized in the Contractor's Schedule of Values. The amounts invoiced shall be directly proportional to the percentage of completion of Work in each of the categories at the end of the closure date for the invoice period less any amounts previously invoiced. The Application for Payment shall be made on A.I.A. Document G702 with continuation sheets A.I.A. Document G703, or on other forms approved by the Designated Representative.
- 10.3.2 The Contractor shall certify monthly that he has made payment due to its Subcontractors and suppliers from the proceeds of prior payments and that he will make timely payments from the proceeds of the progress payment now due to its Subcontractor and suppliers in accordance with the contractual arrangements with them. The Contractor shall submit written certification that all amounts for equipment, materials, labor, union benefits and other services and all other items provided by the month covered by Contractor's invoice have been paid; and proof that Contractor has acquired title to the equipment and materials invoiced the previous month. Partial Waivers of Lien will be required with the second and succeeding monthly invoices. The Designated Representative may request Record Documents, schedule updates, payrolls for all labor and other data supporting payment to Subcontractors and material suppliers before processing the requisition.
- 10.3.3 With respect to material purchased during the preceding month by the Contractor as Owner's special purchasing subagent, the Contractor shall provide the Designated Representative with a statement showing the costs of such materials and any state or local sales and use taxes paid by the Contractor in connection with the purchase or use thereof during the preceding month, which statement shall be supported by copies of invoices, receipts, etc., clearly and separately showing the costs of such materials and taxes. This statement shall be filed with the Designated Representative within one month after the purchase of such items.
- 10.3.4 Unless otherwise provided in the Contract Documents, payment will be made on account of materials or equipment not incorporated in the Work but delivered and suitably stored at the site. Payments made for materials or equipment stored on the site shall be conditioned upon submission by the Contractor of bills of sale or such other procedures satisfactory to the Designated Representative to establish the Owner's title to such materials or

equipment or otherwise protect the Owner's interest. Materials invoiced in pay applications, if not stored on site, must be kept stored in a bonded warehouse approved by the Designated Representative.

- 10.3.5 The Contractor warrants that title to all Work, materials and equipment covered by an Application for Payment will pass to the Owner by incorporation in the construction and upon the receipt of final payment by the Contractor free and clear of all liens, claims, security interests or encumbrances, hereinafter referred to in this Article 10 as "liens" and that no Work, materials or equipment covered by an Application for Payment will have been acquired by the Contractor by any other person performing its Work at the site or furnishing materials and equipment for its Work, subject to an agreement under which an interest therein or an encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or such other person. All Subcontractors and Sub-subcontractors agree that title will so pass upon their receipt of payment from the Contractor.

10.4 PROGRESS PAYMENTS

- 10.4.1 If the Contractor has made Application for Payment in accordance with the General Requirements, the Designated Representative will, with reasonable promptness, review and process such Application for Payment in accordance with the Contract. From each progress estimate, five (5%) percent will be deducted and retained by the Owner, and the remainder less the amount of all previous payments will be paid to the Contractor.
- 10.4.2 No approval of an application for a progress payment, nor any progress payment, nor any partial or entire use or occupancy of the project by the Owner, shall constitute an acceptance of any Work not in accordance with the Contract Documents. Nor shall the same relieve the Contractor or its surety from any obligation under the Contract or the Standard Performance Bond and the Standard Labor and Material Payment Bond.
- 10.4.3 Except in case of bona fide disputes, or where the Contractor has some other justifiable reason for delay, the Contractor shall pay for all transportation and utility services not later than the end of the calendar month following that in which services are rendered and for all materials, tools and other expendable equipment to the extent of ninety percent (90%) of the cost thereof not later than the end of the calendar month following that in which such materials, tools and equipment are delivered at the site of the Project. The Contractor shall pay to each of its Subcontractors, not later than the end of the calendar month in which each payment is made to the Contractor, the representative amount allowed the Contractor on account of the Work performed by its Subcontractors, to the extent of each Subcontractor's interest herein. The Contractor shall, by an appropriate agreement with each Subcontractor, also require each Subcontractor to make payments to its suppliers and sub-subcontractors in a similar manner.
- 10.4.3.1 Payment shall not relieve the Contractor from its obligations under the contract; nor shall such payment be construed to be acceptance of any of the work. Payment shall not be construed as the transfer of ownership of any equipment or materials to the Owner. Responsibility of ownership shall remain with the Contractor who shall be obligated to store, protect, repair, replace, rebuild or otherwise restore any fully or partially completed work or structure for which payment has been made; or replace any materials of equipment required to be provided under the contract which may be damaged, lost, stolen or otherwise degraded in any way prior to acceptance of the work under the contract, except as provided in Paragraph 10.7.2. Guarantee periods shall not be affected by any payment but shall commence on the date equipment or material is placed into service at the direction of the Owner. In the event such items are not placed into service prior to partial or final acceptance of the project, the guarantee period will commence on the date of such acceptance.
- 10.4.3.2 If, within the time fixed by law, a properly executed notice to stop payment is filed with the Owner, due to the Contractor's failure to pay for labor or materials used in the work, all money due for such labor or materials will be withheld from payment to the Contractor in accordance with applicable laws.
- 10.4.4 Per the California Public Contract Code, upon the Contractor's request, the County will make payment of funds withheld to ensure performance of the Contract if the Contractor deposits in escrow with the Santa Barbara County Treasurer, or with a bank acceptable to the COUNTY/DISTRICT, securities eligible for investment under Government Code Section 16430 or bank or savings and loan certificates of deposit, upon the following conditions:
- (a.) The Contractor shall bear the expense of the COUNTY/DISTRICT and the escrow agent, either the County Treasurer or the bank, in connection with escrow deposit made.
 - (b.) Securities or certificates of deposit to be placed in escrow shall be of a value at least equivalent to the amount of retention to be paid to the Contractor pursuant to this section.
 - (c.) The Contractor shall enter into an escrow agreement satisfactory to the COUNTY/DISTRICT which agreement shall include provisions governing inter alia:
 - (1) the amount of securities to be deposited.
 - (2) the providing of power of attorney or other documents necessary for the transfer of the securities to be deposited.
 - (3) conversion to cash to provide funds to meet defaults by the Contractor including, but not limited to, termination of the Contractor's control over the work, stop notices filed pursuant to law, assessment of liquidated damages or other amounts to be kept or retained under the provisions of the contract.
 - (4) decrease in value of securities on deposit.

(5) the termination of the escrow upon completion of the Contract.

(d.) The Contractor shall obtain the written consent of the surety of such agreement.

10.5 PAYMENTS WITHHELD

10.5.1 The Designated Representative, Architect/Engineer or the Owner may decline approval of an Application for Payment if, in its opinion, the Application is not adequately supported. If the Contractor and the Designated Representative or Owner cannot agree on a revised amount, the Designated Representative shall process the application for the amount he deems appropriate. An amount equaling one hundred fifty (150%) percent of the value of the Work related to any Stop Notice shall be withheld from payments applied for by the Contractor until the Stop Notice is expunged. The Designated Representative may also decline to approve any Applications for Payment or, because of subsequently discovered evidence or subsequent inspections, he may nullify in whole or in part any approval previously made to such extent as may be necessary in its opinion because of:

- (a.) Defective Work not remedied.
- (b.) Third party claims filed or reasonable evidence indicating probably filing of such claims.
- (c.) Failure of the Contractor to make payments properly to Subcontractor or for labor, materials or equipment.
- (d.) Reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum.
- (e.) Damage to the Designated Representative, the Owner or another contractor working at the Project.
- (f.) Reasonable evidence that the Work will not be completed within the Contract Time.
- (g.) Persistent failure to carry out the Work in accordance with the Contract Documents.
- (h.) The filing of a lien against the Project when lien is caused by the act or inaction of the Contractor or its subcontractor.
- (i.) Refusal to follow the Project Safety Program issued as a Contract Document.
- (j.) Failure to maintain records as specified.
- (k.) Failure to maintain record drawings as specified.
- (l.) Failure to secure required building inspections.

10.5.2 When the above grounds in Subparagraph 10.5.1 are removed, payment shall be made for the amounts withheld because of them, but in no case shall interest be paid on amounts withheld by the Owner to the Contractor.

10.6 FAILURE OF PAYMENT

10.6.1 If the Contractor is not paid within sixty (60) days after the Application for Payment is approved for payment by the Designated Representative and has become due and payable, then the Contractor may, upon thirty (30) additional days written notice to the Owner and the Designated Representative, stop the Work until payment of the amount owing has been received. The Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start up, which shall be effected by the appropriate Change Order in accordance with Paragraph 13.3., but in no case shall interest be paid by the Owner to the Contractor.

10.7 SUBSTANTIAL COMPLETION

10.7.1 When the Contractor considers that the Work, or a designated portion thereof which is acceptable to the Owner, is substantially complete as defined in Subparagraph 9.1.3, the Contractor shall prepare for submission to the Designated Representative a list of items to be completed or corrected. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. When the Designated Representative and Architect/Engineer, on the basis of inspection, determine that the Work or designated portion thereof is substantially complete, the Architect/Engineer will then prepare a Certificate of Substantial Completion which shall establish the Date of Substantial Completion, shall state the responsibilities of the Owner, the Designated Representative and the Contractor for security, maintenance, heat, utilities, damage to the Work, insurance and shall fix the time within which the Contractor shall complete the items listed therein. Warranties required by the Contract Documents shall commence on the Date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. The Certificate of Substantial Completion shall be submitted to the Owner, the Designated Representative and the Contractor for their written acceptance of the responsibilities assigned to them in such Certificate. The Owner may retain a sum equal to an amount not to exceed one hundred twenty-five percent (125%) of the estimated cost of completing any unfinished items, separately listed and estimated at the time of substantial completion. Thereafter, the Owner shall pay to the Contractor monthly, the amount retained for incomplete items as each of said items are completed.

10.7.2 The Owner shall have the right to take possession of and use for any purpose any partially completed portion of the Work. The Designated Representative will give notice to the Contractor of the Owner's intention to take said possession and use. Such taking possession or use shall not be deemed to be the Designated Representative's acknowledgement of completion and acceptance of said portion of Work.

10.7.2.1 The Owner's taking over and utilizing all or part of any completed facility or appurtenance will relieve the Contractor of responsibility for injury or damage to said completed portions of the improvement resulting from use by the public or from the action of the elements or from any other cause, except injury or damage resulting from the Contractor's operations or negligence. The Contractor will not be required to reclean such portions of the improvements before final acceptance, except for clean up made necessary by its operations. Nothing in this section shall be construed as relieving the Contractor from full responsibility for correcting defective work or

materials.

- 10.7.2.2 In the event the Owner exercises its right to place into service and utilize all or part of any completed facility or appurtenance, the Owner shall assume the responsibility and liability for injury to persons or property arising out of or resulting from the utilization of the facility or appurtenance so placed into service, except for any such injury to persons or property caused by any willful or negligent act or omission of the Contractor, subcontractor, their officers, employees or agents.

10.8 FINAL COMPLETION AND FINAL PAYMENT

- 10.8.1 Following the Architect/Engineer's issuance of the Certificate of Substantial Completion of the Work or designated portion thereof and the Contractor's completion of the Work, the Contractor shall notify the Designated Representative in writing that the Work will be ready for final inspection and test on a definite date. Notice shall be given at least fifteen (15) days in advance of said date. Designated Representative shall forward the notice to the Architect/Engineer who will attach its endorsement as to whether or not he concurs with the Contractor's statement that the Work will be ready for final inspection or test on the date given, but such endorsement shall not relieve the Contractor of its responsibility in the matter. If the Architect/Engineer concurs that the Work will be ready for final inspection or test on the date given, the Architect/Engineer and the Designated Representative will make such inspection. The Contractor is required to furnish access for the final inspection as provided in Subparagraph 3.2.1. If the Work is found acceptable under the Contract Documents and the Contractor fully performed the Designated Representative, upon receipt of a correct final Application for Payment, shall recommend to the Owner that such payment be made.

- 10.8.2 Neither the final payment nor the remaining retained percentage shall become due until the Contractor submits to the Designated Representative all (1) inspection sign-offs, (2) final certificate of occupancy, (3) an affidavit that all payrolls, bills for materials and equipment and other indebtedness connected with the Work for which the Owner or its property might in any way be responsible, have been paid or otherwise, (4) consent of surety, if any, to final payment and executed "General Release and Lien Waiver and General Guarantee", on forms to be provided by the Designated Representative, (5) if required by the Owner, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the contract, to the extent and in such form as may be designated by the Owner or Designated Representative. If any Subcontractor refuses to furnish a release or waiver required by the Owner or Designated Representative, the Contractor may furnish a bond satisfactory to the Owner and Designated Representative to indemnify them against any such lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to the Owner or Designated Representative all monies that the latter may be compelled to pay in discharging such lien, including all costs and reasonable attorney's fees. Contractor is required to submit all "Record Documents" and operating manuals as required by the Contract Documents prior to the processing of the final payment.

- 10.8.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by the issuance of Change Orders affecting the final completion, and the Designated Representative so confirms, the Owner shall upon certification by the Designated Representative and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance of Work not fully completed or corrected is less than the retention stipulated in the Contract Documents and if the bonds have been furnished as provided in Paragraph 8.5, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Designated Representative prior to such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

- 10.8.4 Upon successful completion of the final inspection and Work required by the Contract, acceptance of the same by the Owner and the filing of all affidavits, consents of surety and other data required in Subparagraph 10.8.2 and the submission of all bonds, written warranties and guarantees and of all data documents required for project closeout by the Contract Documents, the Architect/Engineer shall file a written certification of completion with the Owner and with the Designated Representative as to the entire amount of Work performed and compensation earned, including extra Work and compensation therefore. At the expiration of thirty-five (35) days after the Owner's confirmation of such Certificate of Completion or as prescribed by law, the Owner shall pay the Contractor the amount stated therein, less all prior payments and advances, whatsoever, to or for the account of the Contractor except such amounts as are required to be withheld by properly executed and filed notices to stop payment or as may be authorized by the contract to be further retained. All prior estimates and payments including those relating to extra Work shall be subject to correction by this payment, which is throughout the Contract called "Final Payment."

- 10.8.5 The making of Final Payment shall constitute a waiver of all claims by the Owner or Designated Representative except those arising from:

- (a.) Unsettled liens.
- (b.) Faulty or defective Work appearing after Substantial Completion.
- (c.) Failure of the Work to comply with the requirements of the Contract Documents
- (d.) Terms of any special warranties required by the Contract Documents.

- 10.8.5.1 The acceptance by the Contractor of the Final Payment shall be and operate as a release to the Owner and to the Designated Representative of all claims and of all liability to the Contractor for all things done or furnished in

connection with this Contract.

- 10.8.6 In accordance with Section 4551 of the Government Code, the Contractor and subcontractors shall conform to the following requirements. In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor or subcontractor offers and agrees to assign to the awarding body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act, Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code, arising from purchases of goods, services, or materials pursuant to the public works contract of the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment by the parties.
- 10.8.7 In accordance with Section 4552 of the Government Code, the bidder shall conform to the following requirements. In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act, Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code, arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.
- 10.9 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK**
- 10.9.1 General: Unless otherwise specified, quantities of work shall be determined from measurements or dimensions in horizontal planes. However, linear quantities of pipe, piling, fencing, and timber shall be considered as being the true length measured along the longitudinal axis. Unless otherwise provided in the Contract Documents, volumetric quantities shall be the product of the mean area of vertical or horizontal sections and the intervening horizontal or vertical dimension. The planimeter shall be considered an instrument of precision adapted to the measurement of all areas.
- 10.9.2 Methods of Measurement: Materials and items of work which are to be paid for on the basis of measurement shall be measured in accordance with the methods stipulated in the particular section involved.
- 10.9.3 Certified Weights: When payment is to be made on the basis of weight, the weighing shall be done on certified platform scales or, when approved by the Designated Representative, on a completely automated weighing and recording system. The Contractor shall furnish the Designated Representative with duplicate licensed weighmaster's certificates showing the actual net weights. The Designated Representative will accept the certificate as evidence of the weights delivered.
- 10.9.4 Units of Measurement: Measurements shall be in accordance with U. S. Standard Measures. A pound is an avoirdupois pound. A ton is 2,000 pounds avoirdupois. The unit of liquid measure is the U. S. gallon.
- 10.9.5 Lump Sum Items: Items for which quantities are indicated as "Lump Sum", "L.S.", "Job", or words of like import shall be paid for at the price named. Such payment shall be full compensation for the work named and all work appurtenant thereto required by the contract which is not specifically provided for by other pay items.
- 10.9.6 Actual Quantities: The quantities listed in the bid schedule will not govern final payment. Payment to the Contractor will be made only for the actual quantities of contract items constructed in accordance with the plans and specifications. Upon completion of the construction, if the actual quantities show either an increase or decrease from the quantities given in the bid schedule, the contract unit prices will prevail subject to the provisions of Article 13.
- 10.9.7 Waste: Payment will not be made for materials wasted or disposed of in a manner not called for under the Contract. This includes rejected materials not unloaded from vehicles, material rejected after it has been placed and material placed outside of the plan lines. No compensation will be allowed for disposing of rejected or excess material.

ARTICLE 11: PROTECTION OF PERSONS AND PROPERTY

11.1 SAFETY PRECAUTIONS AND PROGRAMS

- 11.1.1 The Contractor expressly undertakes, both directly and through its Subcontractor, to take every precaution at all times for the protection of persons, including employees and property. The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work.
- 11.1.2 The Contractor shall comply with the provisions of the "Construction Safety Act" and the "Occupational Safety and Health Act of 1970" and the Designated Representative's safety program, as well as all other applicable, Federal, State and local requirements. The Contractor shall submit its safety program to the Designated Representative prior to mobilizing the job and shall be responsible for the safety, efficiency and adequacy of its plant, appliances and methods and for any damage which might result from failure or improper construction, maintenance or operation. The Contractor shall provide a safety report to the Designated Representative on a weekly basis. During the conduct of the Work, the Contractor shall take immediate corrective action, as required upon notification of any deficiencies in safety provisions by the Designated Representative or identification of any

deficiencies by Subcontractor personnel.

- 11.1.3 If the Contractor fails to maintain the safety precautions required by law or directed by the Designated Representative, the Designated Representative may take such steps as necessary and charge the Contractor therefore.
- 11.1.4 The failure of the Owner to take any such action shall not relieve the Contractor of its obligations in Subparagraph 11.1.1.
- 11.1.5 The Contractor shall immediately notify the Designated Representative of all accidents and submit a written report describing in detail the circumstances of all accidents within twenty-four (24) hours.
- 11.1.6 The Contractor alone shall be responsible for the safety, efficiency and adequacy of its plant, appliances and methods and for any damage which may result from their failure or their improper construction, maintenance or operation.

11.2 SAFETY OF PERSONS AND PROPERTY

- 11.2.1 The Contractor shall take all reasonable precautions for the safety of and shall provide all reasonable protection to prevent damage, injury or loss to:
 - (a.) All employees on the Project and all other persons who may be affected thereby;
 - (b.) All the Work and all materials and equipment to be incorporated therein, whether in storage on or off the site, under the care, custody or control of the Contractor or any of its Subcontractors or Sub-subcontractors; and
 - (c.) Other property at the site or adjacent thereto, including trees, shrubs, lawns walks, pavements, roadways, structures and utilities not designed for removal, relocation or replacement in the course of construction.
- 11.2.2 The Contractor shall give all notices and comply with all applicable laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the safety of persons or property or their protection from damage, injury or loss.
- 11.2.3 The Contractor shall erect and maintain, as required by existing conditions and progress of the Work, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards promulgating safety regulations and notifying the Owners and users of adjacent utilities. He shall protect the Owner's property from injury or loss arising in connection with this Contract. He shall adequately protect adjacent property as provided by law and the Contract Documents. He shall provide and maintain all passageways, guard fences, light and other facilities for protection required by public authority, local conditions or any of the Contract Documents. If the Contractor fails to so comply, he shall, at the direction of the Designated Representative, remove all forces from the Project without cost or loss to the Owner or Designated Representative, until he is in compliance. When the use or storage of explosives or other hazardous materials or equipment is necessary for the execution of the Work, the Contractor shall exercise the utmost care and shall carry on such activities under the supervision of properly qualified personnel.
- 11.2.4 The Contractor shall notify the Designated Representative of any flammable, combustible and toxic materials intended for use on the project and shall furnish the Designated Representative literature pertinent to the use and control of such materials.
- 11.2.5 Every employee will be dressed for the Work he performs. Minimum dress will consist of long pants, tee shirt and work shoes. Shorts, cut-offs, "tank-top" shirts or soft-soled shoes will not be permitted.
- 11.2.6 The Contractor shall promptly remedy all damage or loss (other than damage or loss insured under Paragraph 12.2) to any property, referred to under Articles 11.2.1.2 and 11.2.1.3, caused in whole or in part by the Contractor, its Subcontractors or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable and for which the Contractor is responsible under the Articles 11.2.1.2 and 11.2.1.3, except damage or loss attributable to the acts or omissions of the Owner or Architect/Engineer or anyone directly or indirectly employed by either of them or by anyone for whose acts either of them may be liable and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to its obligations under Paragraph 5.18. The Contractor shall be responsible to the Owner and the Designated Representative for the acts and omissions of all its employees and all Subcontractors, their agents and employees and all other persons performing any of the Work under a contract with the Contractor.
- 11.2.7 The Contractor and each Subcontractor shall designate a responsible member of its organization at the site to act as its Safety Representative whose duty shall be the prevention of accidents and who shall be responsible to maintain all Safety requirements of the Contractor and shall attend all Project Safety Meetings scheduled by the Contractor. This person shall be the Contractor's or Subcontractor's Superintendent unless otherwise designed by the Contractor in writing to the Designated Representative.
- 11.2.8 The Contractor shall not load or permit any part of the Work to be loaded so as to endanger safety.
- 11.2.9 When necessary for the proper protection of the Work, temporary heating of a type approved by the Designated

Representative and Architect/Engineer shall be provided by the Contractor unless otherwise specified.

11.3 EMERGENCIES

- 11.3.1 In an emergency affecting the safety or life of individuals, of the Work, or of adjoining property, the Contractor without special instruction or authorization from the Owner or Designated Representative or Architect/Engineer shall act, at its discretion, to prevent such threatened loss or injury. Also, should he, to prevent threatened loss or injury, be instructed or authorized to act by the Owner or Designated Representative or Architect/Engineer, he shall so act, without appeal. Any additional compensation or extension of time claimed by the Contractor on account of any emergency Work shall be determined as provided by Article 13 - Changes in the Work.
- 11.3.2 Whenever immediate action is required to prevent impending injury, death, or property damage, and precautions which are the Contractor's responsibility have not been taken and are not reasonably expected to be taken, the Owner or Designated Representative may, after reasonable attempt to notify the Contractor, cause such precaution to be taken and shall charge the cost thereof against the Contractor, or may deduct such cost from any amount due or becoming due from the Owner. The Owner's or Designated Representative's action or inaction under such circumstances shall not be construed as relieving the Contractor or its surety from liability.

ARTICLE 12: UTILITIES

12.1 LOCATION

- 12.1.1 The Owner will search known substructure records and furnish the Contractor, when requested by the Contractor, with copies of documents which describe the location of utility substructures, or will indicate on the plans for the project those substructures, except for service connections, which may affect the work. Information regarding removal, relocation, abandonment, or installation of new utilities will be furnished to prospective bidders.
- 12.1.2 Where underground main distribution conduits such as water, gas, sewer, electric power, telephone or cable television are shown on the plans, the Contractor, for the purpose of preparing its bid, shall assume that every property parcel will be served by a service connection for each type of utility.
- 12.1.3 At least two (2) working days before entering on the work, the Contractor shall request the utility owners whose utilities will be affected by the Contractor's work to mark or otherwise indicate the approximate location of their subsurface facilities including, but not limited to, structures, main conduits and service connections. This requirement will not apply to sewer and storm drain installations where their location and depth are shown on the plans for the project.
- 12.1.4 It shall be the Contractor's responsibility to determine the location and depth of all utilities, including service connections, which have been marked by the respective utility owners and which he believes may affect or be affected by its operations. If no pay item is provided in the contract for this work, full compensation for such be considered as included in the prices bid for other items of work.

12.2 PROTECTION

- 12.2.1 The Contractor shall not interrupt the service function or disturb the supporting base of any utility without authority from the utility owner or order from the Designated Representative.
- 12.2.2 Where protection is required to insure support of utilities located as shown on the plans or in accordance with Paragraph 12.1, the Contractor shall, unless otherwise provided, furnish and place the necessary protection at its expense.
- 12.2.3 Upon learning of the existence and location of any utility omitted from or shown incorrectly on the plans, or not properly marked, the Contractor shall immediately notify the Designated Representative in the form of a written request for information. When authorized by the Owner, support or protection of the utility will be paid for as provided in Article 13.
- 12.2.4 The Contractor shall immediately notify the Designated Representative and the utility owner if any utility is disturbed. The Contractor shall bear the costs of repair or replacement of any utility damaged.
- 12.2.5 When placing concrete around or contiguous to any non-metallic utility installation, the Contractor at its own expense, shall (1) furnish and install a two-inch cushion of expansion joint material or other similar resilient material; or (2) provide a sleeve or other opening which will result in a two-inch minimum clear annular space between the concrete and the utility; or (3) provide other acceptable means to prevent embedment in or bonding to the concrete. Where concrete is used for backfill or for structures which would result in embedment, or partial embedment, of a metallic utility installation; or where the coating, bedding or other cathodic protection system is exposed or damaged by the Contractor's operations or as may be required by the work, the Contractor shall notify the Designated Representative and arrange to secure the advice of the affected utility owner regarding the procedures required to maintain or restore the integrity of the system.

12.3 EXCAVATIONS

12.3.1 For any displacement or excavation of the ground that may be required by any performance under this Contract, the Contractor shall obtain an inquiry identification number by calling Underground Service Alert (USA) 1 (800) 422-4133 or by such other means as may be required; shall conform to all requirements of Government Code Sections 4215 through 4217 regarding any such displacement or excavation, including the payment of any fees required; and shall facilitate performance by the Owner of any obligation required of the County under said sections.

12.3.2 There shall be no performance under this Contract by either party unless and until the provisions of such Sections are complied with and the Designated Representative is notified regarding the compliance.

12.4 REMOVAL

12.4.1 Unless otherwise specified, the Contractor shall remove all interfering portions of utilities shown on the plans or indicated in the bid documents as "abandoned" or "to be abandoned in place".

12.4.2 Before starting removal operations, the Contractor shall ascertain from the Designated Representative whether the utility abandonment is complete, and the costs involved in the removal and disposal shall be absorbed in the bid for the items of work necessitating such removals.

12.5 RELOCATION

12.5.1 When feasible, the utility owners responsible for utilities within the area affected by the work will complete their necessary installations, relocations, repairs or replacements before commencement of work by the Contractor. When the Contract Documents or plans indicate that a utility installation is to be relocated, altered or constructed by others, the Owner will conduct all negotiations with the utility owners and the work will be done at no cost to the Contractor.

12.5.2 Utilities which are relocated in order to avoid interference with the proposed permanent work shall be protected in their relocated position and the cost of such protection shall be absorbed in the various items of the contract.

12.5.3 After award of the contract, portions of utilities which are found to interfere with the work will be relocated, altered or reconstructed by the utility owners, or the Owner may order changes in the work to avoid interference. Such changes will be paid for in accordance with Article 13.

12.5.4 When the plans or specifications provide for the Contractor to alter, relocate, or reconstruct a utility, all costs for such work shall be included in the bid for the items of work necessitating such work. Temporary or permanent relocation or alteration of utilities requested by the Contractor for its own convenience shall be its responsibility, and he shall make all arrangements and bear all costs.

12.5.5 The utility owner will relocate service connections as necessary within the limits of the work or within temporary construction or slope easements unless otherwise specified. When directed by the Designated Representative, the Contractor shall arrange for the relocation of service connections as necessary between the meter and property line, or between a meter and the limits of temporary construction or slope easements. The relocation of such service connections when not detailed on the plans or in the specifications will be paid for in accordance with provisions of Article 13. Payment will include the restoration of all existing improvements which may be affected thereby. The Contractor may, for its own convenience or to expedite the work, agree with any utility owner to disconnect and reconnect interfering service connections. The Owner will not be involved in any such agreement.

12.6 DELAYS

12.6.1 The Contractor shall notify the Designated Representative of its construction schedule insofar as it affects the protection, removal or relocation of utilities. Said notification shall be in writing and shall be included as a part of the construction schedule required in Paragraph 5.10. He shall notify the Designated Representative in writing of any subsequent changes in its construction schedule which will affect the time available for protection, removal or relocation of utilities.

12.6.2 The Contractor will not be entitled to damages or additional payment for delays attributable to utility relocations or alterations if correctly located, noted and completed in accordance with Paragraph 12.1. The Contractor may be given an extension of time for unforeseen delays attributable to utility relocations or alterations not shown or incorrectly shown on the plans, or for unreasonably protracted interference by utilities in performing work correctly shown on the plans. If the Contractor sustains loss due to delays attributable to interferences, relocations or alterations not covered by Paragraph 12.1, which could not have been avoided by the judicious handling of forces, equipment or plant, there shall be paid to the Contractor such amount as the Owner may find to be fair and reasonable compensation for such part of the Contractor's actual loss as was unavoidable.

12.7 COOPERATION

12.7.1 When necessary, the Contractor shall so conduct its operations as to permit access to the work site and provide time for utility work to be accomplished during the progress of the contract work.

ARTICLE 13: CHANGES IN THE WORK

13.1 CHANGE ORDERS

- 13.1.1 A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the Contract authorizing a change in the Work or an adjustment in the Contract Sum or the Contract Time. The Contract Sum and the Contract Time may be changed only by a Change Order. The County Director of General Services is authorized to execute Change Orders for the Owner in accordance with Article 2.3. A Change Order signed by the Contractor indicates its agreement therewith, including the adjustment in the Contract Sum or the Contract Time, and Contractor agrees that the change in the contract sum and contract time set forth in the Change Order shall constitute the complete compensation and time extension for the change in the work including, but not limited to, Contractor's field and home office overhead, profit, and supervision costs. The Contractor shall not proceed with any change in the Work unless directed in writing by the Designated Representative.
- 13.1.2 The Owner or Designated Representative, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Time being adjusted accordingly. All such changes in the Work shall be authorized by a Change Order and shall be performed under the applicable conditions of the Contract Documents. Provisions of the Contract shall apply to all changes, modifications and additions with the same effect as if changes were embodied in the base Contract Documents.
- 13.1.3 A change in the Work may be initiated in one of three ways:
- 13.1.3.1 A "Request for Quotation" form from the Designated Representative to the Contractor describing the revision to the Work desired. Usually, it is accompanied by revised drawings, sketches or other data.
- 13.1.3.2 Formal notification from the Contractor documenting a "concealed condition" requesting investigation by the Designated Representative and Architect/Engineer which causes changes in the Contract Documents (and a subsequent Request for Quotation on the revised documents).
- 13.1.3.3 In response to a Contractor's "Request for Information", the Architect/Engineers' response may include instructions which the Contractor interprets as involving "extra work." In such cases, the Contractor must submit written notice to the Designated Representative requesting review and issuance of an appropriate Request for Quotation. Any other "instruction" given to the Contractor by the Owner, Designated Representative or Architect/Engineer shall require these procedures and as indicated in 13.4.1 below.
- 13.1.4 The cost or credit to the Owner resulting from changes in the Work, as outlined above, shall be made on the basis of one of the following methods:
- (a.) By such applicable unit prices as set forth in the Contract Documents or subsequently agreed upon by both parties to the Contract.(b.) By a lump sum mutually agreed upon by the Owner and the Contractor.
 - (c.) The Owner may direct the Contractor through the Designated Representative to proceed with Work on a time and material (T & M) basis, with a not to exceed cost and the Contractor shall keep and present, in such a form as the Designated Representative may direct, a correct account of all costs of the changes together with all vouchers. The costs shall include overhead and profit as subsequently set forth below. These costs then shall be finalized by a Change Order.
 - (d.) If the parties cannot agree upon a Lump Sum, Unit Pricing or T & M with a not to exceed cost, the Owner may, as recommended by the Designated Representative, issue a written directive Contract Amendment to proceed and the Contractor shall be compensated for the net cost of additional Work. The Contractor shall keep and present in such a form as the Designated Representative may direct a correct account of all costs of the changes together with all vouchers. The costs shall include overhead and profit as subsequently set forth below.
- 13.1.5 Lump sum prices and compensation for actual net cost plus overhead and profit shall be established as follows:
- 13.1.5.1 The net cost of Changes in the Work may include all items of labor or material, power tools and equipment actually used, prorated charges for foreman and payroll charges such as Public Liability and Workmen Compensation Insurance. No percentage for overhead, profit and commission shall be allowed on items of premium costs for overtime, social security, old age and unemployment insurance, fringe benefits, and payroll taxes. If deductions are ordered, the credit shall be the net cost. Items considered as overhead shall include insurance, other than that mentioned above, bond or bonds, superintendent, timekeeper, clerks, watchmen, use of small tools, incidental job burdens, transportation, and general offices expense. The percentages for overhead and profit shall be negotiated and may vary according to the nature, extent and complexity of the changed Work (other than those covered by unit prices set forth on the Contract Documents), but in no case shall exceed the following:

- (a.) Allowable Mark-ups on Change Orders

Definitions:

Prime Contractor =	General Contractor
First Tier Subcontractor =	Contractor to the Prime Contractor
Second Tier Subcontractor =	Contractor to the First Tier Subcontractor

Case A: For work within the scope of the Change Order performed by forces of the Prime Contractor:

Overhead: 10% to Prime Contractor only.
Profit: 5% to Prime Contractor only.
Commission: No commission to any party.

Case B: For work within the scope of the Change Order performed by forces of the First Tier Subcontractor(s):

Overhead: 10% to First Tier Subcontractor(s) only.
Profit: 5% to First Tier Subcontractor(s) only.
Commission: 5% to Prime Contractor only.

Case C: For work within the scope of the Change Order performed by forces of the Second Tier Subcontractor(s):

Overhead: 10% to the Second Tier Subcontractor(s) only.
Profit: 5% to the Second Tier Subcontractor(s) only.
Commission: 5% to the Prime Contractor.
5% to the First Tier Subcontractor(s).
No commission to Second Tier Subcontractor(s).

(b.) Not more than four (4) mark-ups (Case C), not to exceed the maximum percentages shown above, shall be allowed.

(c.) All Cost Proposals for work shall be submitted to the Designated Representative on the attached document: "County of Santa Barbara General Services/Capital Projects Division Cost Proposal".

- 13.1.5.2 On proposals covering both increases and decreases in the amount of the contract, overhead, profit and commission shall be allowed on the net increase only as determined above. When the net difference is a deletion, no percentage for overhead profit and commission shall be allowed.
- 13.1.5.3 Contractor's cost for preparation of change order proposals shall be deemed to be included in amount of change order proposal.
- 13.1.6 The Contractor shall respond to the Designated Representative's request for a proposal within seven calendar days. In this proposal, the Contractor shall furnish to the Designated Representative an itemized breakdown of the quantities and prices used in computing the value of changes that might be ordered. The Contractor shall submit with its proposal, its request for time extension (if any). If time for completion of the Contractor's Work is not affected by the change, the Contractor shall so state.
- 13.1.7 In figuring changes, instructions for measurements of quantities set forth in the specifications shall be followed.
- 13.1.8 After receipt of a proposal with a detailed breakdown, the Designated Representative shall act promptly thereon. However, when the necessity to proceed with a change does not allow sufficient time to properly check a proposal, the Owner through the Designated Representative may order the Contractor to proceed on the basis to be determined at the earliest practicable date. In this event, the value of the change, with the corresponding equitable adjustment to the contract, shall not be more than the increase or less than the decrease proposed.
- 13.1.9 The Designated Representative will inform the Contractor and the Contractor will inform the Designated Representative when either party recognizes that a proposed Request for Quotations (RFQ) may affect the progress of the Work schedule.
- 13.1.10 Designated Representative's Audit: Designated Representative's duly authorized auditors shall have access at all reasonable times, to all Contractor's and Subcontractors' personnel, books, records, correspondence, instructions, plans, drawings, receipts, vouchers and memoranda of every description pertaining to Change Orders for the purpose of auditing and verifying Contractor's net cost of Change Order or for any other reasonable purpose. Designated Representative's auditors shall have the right to reproduce any of the aforesaid documents. Contractor shall preserve and shall cause its Subcontractors to preserve all the aforesaid documents for a period of two (2) years after the completion and acceptance or termination of the Work.
- 13.1.11 If unit prices are stated in the Contract Documents or subsequently agreed upon and if the quantities originally contemplated are so changed in a proposed Change Order, that application of the agreed unit prices to the quantities of Work proposed will cause substantial inequity to the Owner, the Contractor or the Subcontractor, the applicable unit prices shall be equitably adjusted.

13.2 CONCEALED CONDITIONS

- 13.2.1 Should concealed conditions encountered in the performance of the Work below the surface of the ground or should concealed or unknown conditions in an existing structure be at variance with the conditions indicated by the Contract Documents, or should unknown physical conditions in an existing structure of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in this Contract be encountered, the Contractor shall report the conditions to the Designated Representative before the conditions are disturbed. The Designated Representative shall thereupon notify the Architect/Engineer. Upon such notices, or upon its own observation of such conditions, the Architect/Engineer shall promptly make such changes in the Contract Documents as he finds necessary to conform to the different conditions. Any change in the cost of the Work or the time needed for completion resulting from concealed conditions shall be determined in accordance with Paragraph 13.1 provided a notice thereof is made within ten (10) days after the first observance of the conditions.

13.3 CLAIMS FOR ADDITIONAL COST

- 13.3.1 If the Contractor claims that any instructions given to him by the Owner or Designated Representative or by the Architect/Engineer, by drawings or otherwise, involve extra Work not covered by the Contract, he shall give the Designated Representative written notice thereof within ten (10) days after the receipt of such instructions and before proceeding to execute the Work, except in emergencies endangering life or property, in which case the Contractor shall proceed in accordance with Paragraph 11.3. Should it not be clear to the Contractor that a change will involve extra Work, written notice given within ten (10) days that the change may involve extra work will be considered sufficient notice. If it is later determined that the Work involved in such instruction shall be recognized as an extra, the amounts of additional compensation to be paid therefore, should be determined in accordance with Paragraph 13.1. Except as otherwise specifically provided, no claim for additional cost shall be allowed unless the notice specified by this Subparagraph is given by the Contractor or unless such Work is performed as provided in Subparagraph 13.1.4. Any change in the contract sum resulting from such claim shall be authorized by agreement amendment.
- 13.3.2 If the Contractor claims that additional cost is involved because of, but not limited to, (1) written interpretation issued pursuant to Subparagraph 3.2.2, (2) any order by the Owner or Designated Representative to stop the Work pursuant to Paragraph 4.3 where the Contractor was not at fault, or (3) any written order for a minor change in the Work issued pursuant to Paragraph 13.4, the Contractor shall make such claims as provided in Subparagraph 13.3.1.
- 13.3.2.1 Any claim for damages of any character, delays for which the Owner is liable under the Contract Documents, extra work or extra compensation of any other nature, shall be waived unless notice thereof is given to the Owner, in writing, within ten (10) days after the initial occurrence of the first event, which is relied upon to justify the claim or within such time as the event should have reasonably been discovered by the Contractor and in any event, before extra cost is incurred.
- 13.3.2.2 Any claim for a delay for which the Owner is liable will not be allowed where there is a concurrent delay that is the responsibility of the Contractor. No claim for damages of any character due to delays caused by adverse weather, acts of God, strikes, fire or unavoidable casualties will be allowed. The Contractor shall bear the expenses related to additional time granted for "force majeure" events.
- 13.3.2.3 The written notice of potential claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and, insofar as possible, the amount of the potential claim. The said notice as above required must have been given to the Designated Representative prior to the time that the Contractor shall have performed the work giving rise to the potential claim for additional compensation, if based on an act or failure to act by the Designated Representative, or in all other cases within ten (10) days after the happening of the event, thing or occurrence giving rise to the potential claim. It is the intention of this paragraph that differences between the parties arising under and by virtue of the contract be brought to the attention of the Designated Representative at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor hereby agrees that he shall have no right to additional compensation for any claim that may be based on any such act, failure to act, event, thing or occurrence for which no written notice of potential claim as herein required was filed.

13.4 MINOR CHANGES IN THE WORK

- 13.4.1 The Architect/Engineer will have the authority to order, through the Designated Representative, minor changes in the Work not involving an adjustment in the Contract Sum or an extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order and such changes shall be binding on the Owner, the Designated Representative and the Contractor. The Contractor shall carry out such written orders promptly.

ARTICLE 14: UNCOVERING AND CORRECTION OF WORK

14.1 UNCOVERING OF WORK

- 14.1.1 If any portion of the Work should be covered contrary to the request of the Owner through the Designated Representative or Architect/Engineer, or to requirements specifically expressed in the Contract Documents, it shall, if required in writing by the Designated Representative, be uncovered for their observation and replaced, at the Contractor's expense.
- 14.1.2 If any other portion of the Work has been covered which neither the Designated Representative nor the Architect/Engineer has specifically requested to observe prior to being covered, the Architect/Engineer or Designated Representative, with written approval of the Owner, may request to see such work and it shall be uncovered by the Contractor. If such work is found in accordance with the Contract, the cost of uncovering and replacement shall, by an appropriate Change Order, be charged to the Owner, as the case may be. If such Work is found not in accordance with the Contract Documents, the Contractor shall pay such costs unless it is found that this condition was caused by a separate contractor employed as provided in Article 7 and in that event, the separate contractor shall be responsible for payment of such costs.

14.2 CORRECTION OF WORK

- 14.2.1 The Contractor shall promptly correct all Work rejected by the Architect/Engineer or the Designated Representative as defective or as failing to conform to the Contract Documents whether observed before or after Substantial Completion and whether or not fabricated, installed or completed. The Contractor shall bear all costs of correcting such rejected Work, including compensation for the Architect/Engineer's and Designated Representative's additional services made necessary thereby.
- 14.2.2 Notwithstanding acceptance of the Work by the Owner, if any of the Work is found to be defective or not in accordance with the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Designated Representative to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. This obligation shall survive the termination of the Contract. The Designated Representative shall give such notice promptly after discovery of the condition.
- 14.2.2.1 If, within one (1) year after the Date of Substantial Completion of the Work or the designated portion thereof, or within one (1) year after acceptance by the Owner of designated equipment or within such longer period of time as may be prescribed by law or by the terms of any applicable special warranty required by the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner or Designated Representative to do so unless the Owner or the Designated Representative has previously given the Contractor written acceptance of such condition. This obligation shall survive the termination of the Contract. The Owner or Designated Representative shall give such notice promptly after discovery of the condition.
- 14.2.3 The Contractor shall remove from the site all portions of the Work which are defective or nonconforming and which have not been corrected under Subparagraph 5.5.1, 14.2.1 and 14.2.2 unless removal has been waived by the Owner.
- 14.2.4 If the Contractor fails to correct the defective or nonconforming Work as provided in Subparagraph 5.5.1, 14.2.1 and 14.2.2, the Owner may correct it in accordance with Subparagraph 4.3.2.
- 14.2.5 If the Contractor does not proceed with the correction of such defective or nonconforming Work within a reasonable time fixed by written notice from the Designated Representative, the Owner may remove it and may store the materials or equipment at the expense of the Contractor. If the Contractor does not pay the cost of such removal and storage within ten (10) days thereafter, the Owner may, upon ten (10) additional days written notice, sell such Work at auction or at private sale and shall account for the net proceeds thereof, after deducting all costs that should have been borne by the Contractor, including compensation for the Designated Representative's additional services made necessary thereby. If such proceeds of sale do not cover all costs, which the Contractor should have borne, the difference shall be charged to the Contractor and the appropriate Change Order shall be issued. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the Owner.
- 14.2.6 The Contractor shall bear the cost of making good all Work of the Owner or other contractors destroyed or damaged by such removal or correction.
- 14.2.7 Nothing contained in this Paragraph 14.2 shall be construed to establish a period of limitation with respect to any other obligation which the Contractor might have under the Contract Documents, including Paragraph 5.5 hereof. The establishment of the time period of one (1) year after the Date of Substantial Completion or such longer period of time as may be prescribed by law or by the terms of any warranty required by the Contract Documents, relates only to the specific obligation of the Contractor to correct the Work and has no relationship to the time within which its obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to its obligations other than specifically to correct the Work.

14.2.8 ACCEPTANCE OF DEFECTIVE OR NONCONFORMING WORK

If the Owner prefers to accept defective or nonconforming Work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect reduction in the Contract Sum where appropriate and equitable. Such adjustment shall be affected whether or not Final Payment has been made.

ARTICLE 15: TERMINATION OF THE CONTRACT

15.1 TERMINATION BY THE CONTRACTOR

- 15.1.1 If the Work is stopped under an order of any court or other public authority having jurisdiction for a period of three (3) months, through no fault of the Contractor or a Subcontractor or their agents or employees or any other person performing any of the Work under a contract with the Contractor, or if the Designated Representative should arbitrarily fail to issue any certificate for payment within a reasonable time after it is due, or if the Owner should fail to pay within sixty (60) days, any sum certified by the Designated Representative to the Contractor, he may, upon thirty (30) additional days written notice by the Contractor, stop Work or terminate the Contract and recover from the Owner payment for all Work executed and for any proven loss sustained upon any materials, equipment, tools, construction equipment and machinery.

15.2 TERMINATION BY THE OWNER

- 15.2.1 If the Contractor is adjudged bankrupt or if he makes a general assignment for the benefit of its creditors or if a receiver is appointed on account of its insolvency, or if he persistently or repeatedly refuses or fails, except in cases for which extension of time is provided, to supply enough properly skilled workmen or proper materials, or if he fails to make prompt payment to Subcontractors or for materials or labor, or persistently disregards laws, ordinances, rules regulations, orders of any public authority having jurisdiction, or otherwise is guilty of a substantial violation of a provision of the Contract Documents, then the Owner may, without prejudice to any right or remedy and after giving the Contractor and its surety, ten (10) days written notice, terminate the employment of the Contractor and take possession of the site and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and may finish the Work by whatever method he may deem expedient. In such case the Contractor shall not be entitled to receive any further payment until the Work is finished.
- 15.2.1.1 If the unpaid balance of the Contract Sum exceeds the costs of finishing the Work, including compensation for the Designated Representative's additional services made necessary thereby, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor shall pay the difference to the Owner.
- 15.2.1.2 The expenses incurred by the Owner or Designated Representative and the damage incurred through the Contractor's default shall be certified by the Architect/Engineer.
- 15.2.2 The Owner may terminate the contract at its own discretion or when conditions encountered during the work make it impossible or impracticable to proceed, or when the Owner is prevented from proceeding with the contract by act of God, by law, or by official action of a public authority.
- 15.2.3 After receipt of a Notice of Termination, the Contractor shall submit to the Owner through the Designated Representative its written termination claim in the form and with the certification which the Owner or Designated Representative may require. Such claims shall be submitted promptly, but in no event more than thirty (30) days after the effective date of termination.

ARTICLE 16: PROJECT REQUIREMENTS

16.1 PROJECT REPORTS

- 16.1.1 Contractor Reports: Immediately after the contract is awarded, a meeting will be scheduled at the project site to review project procedures, designation of name and title of the authorized person or persons, representing the Contractor and responsible for the project management and field operation, designation of Emergency Contact, designation of representative for progress meetings, the requirements for daily, weekly and monthly reports and other submittals required to perform and administer the project. Without limiting the reports required, several reports are indicated below with their requirements:
- 16.1.2 Daily Force and Activity Reports: The Contractor shall prepare and submit to the Designated Representative, including similar data for each of its Subcontractors, a Daily Force and Activity Report. This report shall be on a form approved by the Designated Representative and shall indicate all Supervisors, Journeymen, Laborers or Helpers and, by crew, the activities, related to the Contractor's schedule, that are being performed. The Daily Force and Activity Report shall include information on material deliveries, tests, weather conditions and other significant events. Each Daily Force and Activity Report shall be delivered to the Designated Representative at the job site by 9:00 a.m. on the next succeeding business day.
- 16.1.3 Daily Change Documentation: The Contractor shall submit to the Designated Representative for review and verification, separate daily documentation of any "Change in the Work" being performed on any basis, other than agreed upon lump sum, as described in Article 13 of the General Conditions. This report shall be on a form approved by the Designated Representative. The Contractor shall certify the accuracy of this report.

- 16.1.4 Safety Reports: The Contractor shall submit to the Designated Representative copies of all accident reports and weekly minutes/reports of Safety Program "Tool Box" meeting and other safety information.
- 16.1.5 Material Status Reports: The Contractor shall prepare a Materials Status Report not later than fifteen (15) calendar days after the Notice to Proceed. The report shall include a complete list of suppliers, items to be purchased from them, the fabricator and manufacturer, the time required and the promised delivery dates for each item. This report shall be updated and submitted with the payment requisition monthly as an integral part thereof and more frequently as requested by the Designated Representative.
- 16.1.6 Purchase Orders: A copy of each purchase order as issued by the Contractor shall be furnished to the Designated Representative, except that prices may be omitted.
- 16.1.7 Job Cost Breakdown: The Contractor shall submit job cost breakdown reports for record and tax purposes to the Designated Representative. The first report shall be submitted within thirty (30) calendar days after date of each Notice to Proceed on any portion of the Work and shall be consistent in format with the schedule of values. Another report shall be submitted at the completion of the job and shall include all additions and deletions. Interim reports on various elements of the Work shall be submitted as required by the Owner for investment, tax credit, pollution control, financing and other purposes.
- 16.1.8 Monthly Progress Payment Applications: The Contractor shall submit Monthly Progress Payment Applications in the form and at the time as approved by the Designated Representative.
- 16.1.9 Monthly Reports: The Contractor shall submit to the Designated Representative copies of all monthly reports, such as MBE Participation, etc., required by governing bodies.
- 16.1.10 Monthly Certification: The Contractor shall submit to the Designated Representative periodic evidence and a monthly certification that "Record Documents", Test Reports and other Project Record Documents are being maintained for ultimate submittal to the Designated Representative and Owner at the completion of the Work.
- 16.1.11 Weekly Request for Information Status: The Contractor shall submit, each week on a day agreed to between the Contractor and the Designated Representative, a Request for Information Status Report indicating the Contractor's perception of the status of all submitted Requests for Information. The Request for Information Status Report will include a brief description of the request, date the request was submitted to the Designated Representative, date a response is needed from the Architect/Engineer, date a response is actually made by the Architect/Engineer, and any pertinent remarks. The Request for Information Status Report shall be in a format approved by the Designated Representative.

16.2 DRAWINGS, PRODUCT DATA AND SAMPLES

- 16.2.1 Shop Drawings: Shop drawings are drawings, diagrams, schedules and other data especially prepared for the Work by the Contractor, Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work. Shop drawings shall be signed by a registered professional engineer where required by law.
- 16.2.2 Product Data: Product data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate a material, product, equipment or system for some portion of the Work.
- 16.2.3 Samples: Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.
- 16.2.4 Submittals: Submittals forwarded by the Contractor to the Designated Representative shall be in conformance with the requirements of the Contract Documents. The Contractor shall notify the Architect/Engineer and Designated Representative in writing of any deviations in the submittals from the requirements of the Contract Documents at the time of submission. Before submission of each Shop Drawing, Product Data or Sample, the Contractor shall have determined and verified all quantities, dimensions, specified design and performance criteria, installation requirements, materials, catalog numbers and similar data with respect thereto and review or coordinated each Shop Drawing, Product Data or Sample with other Shop Drawings, Product Data and Samples and with the requirements of the Work and the Contract Documents. The term "submittal" as used herein includes Shop Drawings, Product Data and/or Samples as required by the Contract Documents. All submittals shall be submitted thirty (30) days prior to commencement of work affected.
- 16.2.5 Notice of Variation: At the time of each submission, the Contractor shall give the Architect/Engineer specific written notice of each Contractor perceived variation that the submittal may have from the requirements of the Contract Documents and, in addition, the Contractor shall cause a specific notation to be made on each Shop Drawing, Product Data and/or Sample submitted to the Architect/Engineer for review and "approval" demonstrating each such perceived variation.

16.2.6 Architect/Engineer Submittal Review: The Architect/Engineer will review and "approve" with reasonable promptness the required submittals. The Architect/Engineer's review and approval of the Contractor's submittal does not constitute a complete check, but indicates only that design, general method of construction and detailing is satisfactory. The Architect/Engineer's review and approval does not permit any

deviation from the Contract Requirements and does not relieve the Contractor of the responsibility for errors in dimensions, details, sizes of member, etc., or the coordinating of installation and construction with actual conditions of the Work. The Architect/Engineer's review and "approval" will be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents and shall not extend to means, methods, techniques, sequences or procedures of construction (except where a specific means, the methods, technique sequence or procedure of construction is indicated in or required by the Contract Documents) or to safety precautions or safety programs incident thereto. The individual review and "approval" of a component item as such will not indicate "approval" of the integrated final assembly into which the item is placed and in which the item must function. The Contractor shall make any corrections required by the Architect/Engineer, without any additional cost to the Owner. The Contractor shall return the required number of corrected copies of submittals to the Architect/Engineer who will promptly, as required, review the re-submittals for conformance with the design concept.

- 16.2.7 Resubmission Notice: The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data or Samples, to all revisions other than those requested by the Architect/Engineer or Designated Representative on previous submittals.
- 16.2.8 Contractor Responsibility: Review and "approval" of submittals by the Architect/Engineer shall not relieve the Contractor from responsibility for any variation from the requirements of the Contract Documents unless the Contractor has in writing called the Architect/Engineer's attention to each such variation at the time of submission as required and the Architect/Engineer has given written approval of each such variation by a specific written notation thereof incorporated in or accompanying the submittal "approval"; nor will any "approval" by the Architect/Engineer relieve the Contractor from the responsibility for the Contractor's own errors or omissions in the submittal or from the Contractor's responsibility for compliance with all Contract Document provisions.
- 16.2.9 No Work Prior to Submittal Approval: The Contractor shall resubmit submittals as required until the Architect/Engineer's approval is obtained. No work requiring submittals shall be executed until the Architect/Engineer's approval is given. Where a submittal is required by the Specifications, any related work performed prior to the Architect/Engineer's review and "approval" of the pertinent submission will be at the sole risk, expense and responsibility of the Contractor.
- 16.2.10 Transmittal Requirements: After checking and verifying all field measurements and complying with applicable procedures specified in the Contract Documents, the Contractor shall transmit all submittals to the Architect/Engineer with one (1) copy to the Designated Representative and shall include:
- (a.) Date and revision dates.
 - (b.) Project title and number.
 - (c.) The names of:
 - (1.) Architect/Engineer
 - (2.) Designated Representative
 - (3.) Contractor
 - (4.) Contract Number
 - (5.) Subcontractor or Supplier
 - (6.) Manufacturer
 - (7.) Separate Detailer when pertinent
 - (d.) Number of Shop Drawings, Product Data and Sample submitted. (System to be established by Designated Representative.)
 - (e.) Identification of product or material.
 - (f.) Relation to adjacent structure or materials.
 - (g.) Field dimensions, clearly identified as such.
 - (h.) Specification section number and paragraph.
 - (i.) Applicable standards such as ASTM number or Federal Specification.
 - (j.) A blank space, minimum of 2 1/2 by 3 1/2 inches for the Architect/Engineer stamp.
 - (k.) Identification of deviations from Contract Documents.
 - (l.) Other pertinent data.
- 16.2.11 Approval Delays: The Contractor shall be responsible for any delays caused by the rejection of the submittal for inadequate or incorrect shop drawings, manufacturer's data or other information.
- 16.2.12 Working Drawings: The Contractor is responsible for seeing that only "Approved" copies of shop drawings bearing the stamp of the Architect/Engineer are allowed on the job.
- 16.2.13 Approved Equals: The Contractor's attention is directed to Article 5.4 LABOR AND MATERIALS. Where two or more products are specified for an item of Work, either one thereof is acceptable and the choice is left to the Contractor. Where only one product is specified and where the term "or approved equal" or similar wording is used in connection with specified products, the Contractor may, if he so desires, offer for consideration a substitute product which he judges to be equal in every respect to the required product. When a specific process is specified as well as a guarantee of the results, the Contractor shall, if in its judgement the process may not produce the required result, submit for approval, an alternative process which he would guarantee. All such submittals shall be made, within forty (40) calendar days after award of the Contract, in writing to the Designated Representative, who in turn will forward them to the Architect/Engineer. Review of any substitute product will (1)

be contingent upon submission of substantiating serviceability to specified product; (2) use of the item will not entail changes in details and construction of related Work; (3) item conforms to required design and artistic effect. The Contractor shall furnish with the first submittal, a sufficient number of drawings, specifications, samples, performance data and other information necessary to assist the Architect/Engineer in determining whether the proposed substitution is acceptable. The burden of proof shall be upon the Contractor. No consideration will be given to incomplete submittals. Substitutions shall be approved in writing before they may be used.

- 16.2.14 Conflicting Instructions: When product manufacturer's instructions are in conflict with the Contract Documents, the Contractor shall notify the Designated Representative for clarification before proceeding. The Contractor shall keep a copy of the various product manufacturer's instructions applicable to the Work at the project site.
- 16.2.15 Submittal Log: Each week on a day agreed to between the Contractor and the Designated Representative, the Contractor shall submit an updated submittal log to the Designated Representative indicating the Contractor's perception of the status of all required submittals and reviews. Similar information to that outlined below shall be provided for any required re-submittals. The submittal log will include such information as:
- (a.) The schedule date to receive information from a subcontractor or supplier.
 - (b.) The actual date information was received from a subcontractor or supplier.
 - (c.) The scheduled date to submit information to the Architect/Engineer.
 - (d.) The date information was submitted to Architect/Engineer.
 - (e.) Anticipated date of return of information from Architect/Engineer.
 - (f.) Actual date information was received from Architect/Engineer.
 - (g.) Status or actions required.
- 16.2.16 Sample Submission: The Contractor shall submit all required samples for review and "approval" by the Architect/Engineer, with such promptness as to cause no delay in the Work. All samples shall be checked by the Contractor and accompanied by a specific written indication that the Contractor has satisfied Contractor's responsibilities under the Contract Documents with respect to the Contractor's review of the submission. The samples shall be identified clearly as to equipment, material, supplies and include pertinent data such as demonstrating compliance with a certain Specification Section, catalog number, etc., and the use for which the material is intended. An approved sample of each material shall be provided to the Designated Representative prior to delivery of any materials for which submission of samples is required.
- 16.2.17 Sample Review: The Contractor shall submit four (4) samples of materials to the Architect/Engineer for approval as indicated in the Specifications. All samples shall be properly labeled to indicate type of material submitted, intended use, manufacturer's name, trade name, project name, Designated Representative's name, Contractor's, Subcontractor's and Supplier's names; and shall be transmitted as required by paragraph 16.2.10. Samples will be inspected and tested as required and if acceptable an approved notice will be sent to the Contractor along with one (1) approved sample. Rejected samples will be returned along with a statement of reasons for rejection. Accepted samples will be retained by the Architect/Engineer, one of which will be provided to the Designated Representative and shall become the property of the Owner.
- 16.2.18 Submittals Affecting the Contract Sum: The Architect/Engineers approval of submittals which deviate from the Contract Documents does not authorize changes to the Contract Sum. The Contractor shall notify the Architect/Engineer and the Designated Representative in writing at the time of transmittal of any changes to the Contract Sum affected by such approval of a submittal; otherwise, claim for extras will not be considered.
- 16.2.19 Ductwork Layout Drawings: As soon as practical and in no case starting later than thirty (30) days after the award of contract, the Mechanical Subcontractor shall prepare layout drawings of all duct work and piping at not less than 3/8" scale. The ductwork layout drawings shall show registers, grilles, diffusers and similar features as well as locations of all valves, dampers and other items requiring access for service and maintenance. The ductwork layout drawings shall also show beams, ceiling heights, walls, floor to floor dimensions, columns, doors and other major architectural and structural features as shown on the architectural and structural drawings.
- 16.2.20 Coordination with Subcontractors: The Contractor shall, within sixty (60) days after award, send a reproducible and two (2) prints of the ductwork layout drawings to the plumbing, materials handling, fire protection and electrical subcontractors who shall then make on the reproducible their own routings as well as other major items such as valves, access panels, switch panels, etc., as required to determine interrelationship and possible interferences with the mechanical ductwork and architectural or structural features. The marked-up reproducible shall then be returned to the Mechanical Subcontractor through the Contractor with copies to the Designated Representative no less than thirty (30) days after receipt by the other Subcontractors.
- 16.2.21 Composite Drawings: The Mechanical Subcontractor shall prepare preliminary composite drawings of such layout drawings, incorporating all the information and routings provided by the other Subcontractors. (At its option, a group of transparent overlays may be substituted, provided that they clearly show the relationship of all proposed installations.) The preliminary composite drawings, or the overlays, shall be reviewed during a series of meetings, called by the Contractor and attended by the Architect/Engineer and the Designated Representative, at which all Subcontractors and trades shall be represented, in order to review and resolve any real or apparent interferences or conflicts.
- 16.2.22 Agreement by Subcontractors: After all conflicts or interferences are resolved the Mechanical Subcontractor shall develop a final set of composite drawings showing the agreed upon routing, layout and juxtaposition of all

ductwork, conveyers, piping, major conduit, valves, panels, lighting fixtures and all other major mechanical and electrical installations. In areas where no mechanical ductwork occurs, but where other mechanical and electrical installations are installed, each Subcontractor shall be responsible for its own Work and shall cooperate in preparing similar composite drawings, shall perform its own drafting Work and pay its own costs in connection therewith. In preparation of all the final composite drawings, large scale details as well as cross and longitudinal sections shall be as required to fully delineate all conditions. Particular attention shall be given to the locations, size and clearance dimensions of equipment items, shafts and similar features. These final composite drawings shall then be signed-off by each of the Subcontractors, including the Mechanical Subcontractor, and the Contractor indicating their awareness of and agreement with the indicated routings and layouts and their interrelationship with the adjoining or contiguous Work. Thereafter, no unauthorized deviations will be permitted and if made without knowledge or agreement of the Architect/Engineer and Designated Representative, this unauthorized Work will be subject to removal and correction at no additional cost to Owner.

- 16.2.23 Minor Changes: In preparing the composite drawings, minor changes in duct, pipe or conduit routings that do not affect the intended function may be made as required to avoid space conflicts, when mutually agreed, but items may not be resized or exposed items relocated without the Architect/Engineers and Designated Representative's written approval. No changes shall be made in any wall or chase locations, ceiling heights, door swings or locations, window or other openings or other features affecting the function or aesthetic effect of the building. If conflicts or interferences cannot be satisfactorily resolved, the Architect/Engineer and the Designated Representative shall be notified and their decision obtained.
- 16.2.24 Distribution of Composite Drawings: After the final composite drawings have been agreed upon and signed by all Subcontractors, the Contractor shall provide and distribute four (4) prints to each of the Subcontractors, to the Architect/Engineer and to the Designated Representative for reference and record purposes. The Contractor shall make similar distribution of all supplementary composite drawings, initiated by other Subcontractors as indicated herein before. All Subcontractors desiring additional prints of such drawings, beyond the basic distribution indicated above, shall arrange for and pay the cost of the same.
- 16.2.25 Record Composite Drawings: The record copies of the final composite drawings shall be retained by the Designated Representative and each Contractor as a working reference. All shop drawings, prior to their submittal to the Architect/Engineer, shall be compared with the composite drawings and developed accordingly by the Contractor and the responsible Subcontractor. Any revision to the composite drawings which may become necessary during the progress of the Work shall be noted by the Contractor and all Subcontractors and shall be neatly and accurately recorded on the record copies. The Contractor and each Subcontractor shall be responsible for the up-to-date maintenance of its record copies of the composite drawings and to keep two (2) copies available at the site. The composite drawings and any subsequent changes thereto, shall be utilized by the Contractor and each Subcontractor in the development of its "Record Document" drawings.
- 16.2.26 Timely Submissions: The composite drawings need not be submitted as a whole, but they shall be submitted in all cases in ample time to avoid construction delay. The coordination drawings may lack complete data in certain instances pending receipt of shop drawings, but sufficient space shall be allotted for the items affected. When final information is received, such data shall be promptly inserted on the composite drawings.
- 16.2.27 Improperly Coordinated Work: No extra compensation will be paid for relocating any duct, pipe, conduit, or other material that has been installed without proper coordination between the Contractor and all Subcontractors involved. If any improperly coordinated Work or Work installed that is not in accordance with the approved composite drawings, necessitates additional Work by the Contractor or other Subcontractors, the costs of all such additional Work shall be borne solely by the Contractor or the Subcontractor responsible for the nonconforming Work.
- 16.2.28 Incorporation of Changes: All changes in the scope of Work due to revisions formally issued and approved shall be shown on the composite drawings.
- 16.2.29 Quality Draftsmanship: All Work on shop drawings, ductwork layout drawings, coordination drawings, and composite drawings shall be performed by competent draftsmen and shall be clear and fully legible. The Architect/Engineer shall be the sole judge of the acceptability of the drawings.
- 16.2.30 Structural Cutting: The Contractor shall obtain specific positive written instructions from the Architect/Engineer through the Designated Representative before cutting beams or other structural members, arches or lintels, and the Contractor shall be guided by such instructions.

16.3 TEMPORARY SERVICES, SYSTEMS AND FACILITIES

- 16.3.1 Temporary Lighting, Power and Water: At its own expense, the Contractor shall furnish, install, maintain, and remove all temporary lighting, electric power, and potable water, including piping, wiring, lamps, and other equipment necessary for the execution and security of the Work; and shall be responsible for the cost of power and water usage. The Contractor shall not draw water from any fire hydrant, except to extinguish a fire, without first obtaining permission from the water agency concerned. The Contractor shall provide for distribution of drinking water to all work forces under this Contract.
- 16.3.2 Sanitation: The Contractor shall provide and maintain portable enclosed toilets for the use of all work forces under this Contract. These accommodations shall be maintained in a neat and sanitary condition. They shall also

comply with all applicable laws, ordinances and regulations pertaining to the public health and sanitation of dwellings and camps. The Contractor shall not interrupt the flow of existing sanitary sewers. Should the Work involve the disruption of existing sewer facilities, the Contractor shall convey the sewage in closed containers and shall dispose of it in a sanitary sewer system as approved by local health authorities and the Designated Representative. Sewage shall not be permitted to flow in trenches or be covered by backfill.

- 16.3.3 Vermin Control: The Contractor shall maintain the job site free of rodents, insects, vermin and pests throughout all phases of construction, including suspensions of work, and until final acceptance of the Work. Necessary extermination work shall be arranged and paid for by the Contractor as part of the contract work and contract time and shall be performed by a licensed agency in accordance with requirements of governing authorities. The Contractor shall be liable for injury to persons or property and responsible for the elimination of offensive odors resulting from extermination operations.
- 16.3.4 Water Pollution Control: The Contractor shall exercise every reasonable precaution to protect channels, storm drains, and bodies of water from pollution and shall conduct and schedule its operations so as to minimize or avoid muddying and silting of said channels, drains, and waters. Water pollution control work shall consist of constructing those facilities which may be required to provide prevention, control, and abatement of water pollution.
- 16.3.5 Air Pollution Control: The Contractor shall not discharge smoke, dust, or any other air contaminants into the atmosphere in such quantity as will violate the regulations of any legally constituted authority.
- 16.3.6 Project Site Maintenance: Throughout all phases of construction, including suspensions of work, and until final acceptance of the Work, the Contractor shall keep the job site, including the interior of all structures, clean and free from rubbish and debris. The Contractor shall provide and maintain rubbish containers and periodic rubbish removal services as required by the pace of the Work and health regulations, and as acceptable to the Designated Representative.
 - 16.3.6.1 The Contractor shall abate dust nuisance by cleaning, sweeping, and sprinkling with water, or other means as necessary. The use of water resulting in mud on public streets will not be permitted as a substitute for sweeping or other methods.
 - 16.3.6.2 Materials and equipment shall be removed from the site as soon as they are no longer necessary; and upon completion of the Work and before final inspection the entire work site shall be cleared of equipment, unused materials, and rubbish so as to present a satisfactory clean and neat appearance. All cleanup costs shall be absorbed in the Contractor's bid.
 - 16.3.6.3 The Contractor shall take care to avoid spillage on haul routes. Any such spillage shall be removed immediately and the area cleaned by the Contractor.
 - 16.3.6.4 Burning or burying of rubbish and waste materials on the project site is prohibited. Disposal of volatile fluid wastes in storm and sanitary sewer systems is prohibited.
 - 16.3.6.5 Waste materials shall not be dropped or thrown from heights. Cleaning operations shall be scheduled so that dust and other contaminants resulting from the cleaning process will not fall on wet or newly painted surfaces. Dusty debris shall be sprinkled lightly with water as required to control dust.
 - 16.3.6.6 The Contractor shall vacuum clean the interior of buildings prior to the start of finish painting. The Contractor shall continue vacuum cleaning thereafter on an as needed basis until the building is ready for acceptance.
 - 16.3.6.7 Failure of the Contractor to comply with the Designated Representative's cleanup orders may result in an order to suspend the Work until the condition is corrected. No additional compensation will be allowed as a result of such suspension.
- 16.3.7 Final Cleaning: At the completion of the Work, the Contractor at its sole expense shall remove all waste materials and rubbish from and about the project, as well as all tools, construction equipment, temporary facilities, machinery, and surplus materials.
 - 16.3.7.1 At completion of construction and just prior to final inspection, the Contractor shall thoroughly clean the interior and exterior of the buildings, including hardware, floors, roofs, sills, ledges, glass, or other surfaces where debris, plaster, paint, spots, and dirt or dust may have collected. All glass shall be washed clean and polished. All grease, stains, labels, fingerprints, and other foreign materials shall be removed from interior and exterior surfaces. The Contractor shall repair, patch, and touch up marred surfaces to match adjacent finishes.
 - 16.3.7.2 The Contractor shall use only experienced workmen or professional cleaners for final cleaning. Use only cleaning materials recommended by the manufacturer of the surface to be cleaned, and use cleaning materials only on surfaces recommended by the cleaning material manufacturer.
 - 16.3.7.3 The Contractor shall broom clean all paved surfaces and rake clean other surfaces of grounds.

- 16.3.7.4 The Contractor shall replace air conditioning filters, if units were operated during construction. The Contractor shall clean all ducts, blowers, and coils if air conditioning units were operated at any time without filters during construction. The Contractor shall maintain the building in a clean condition until it is accepted by the Owner.
- 16.3.8 Fire Protection: The Contractor at its sole expense shall provide temporary fire safety equipment for general use. The Contractor shall provide fire extinguishers for its trailers, for use as required when cutting and burning is performed, and as required throughout the job site as instructed by the local fire marshal.
- 16.3.9 Communication Systems: The Contractor shall provide telephone services at its own expense. The Contractor at its sole expense shall maintain in service a facsimile telecopy machine whenever telephone service is available at the job site. The use of portable radios shall be in accordance with Federal Regulations and shall not interfere with other local radio operations.
- 16.3.10 Office Facilities: The Contractor at its sole expense shall provide, maintain and remove temporary field office facilities, including all furniture, equipment, copiers, heating, cooling, lighting, power, telephones, drinking water, plumbing and toilet fixtures as necessary for its performance of the Work; and shall make these spaces, telephones, and services available for the use of the Owner, the Designated Representative and the Architect/Engineer.
- 16.3.11 Weather Protection: The Contractor at its sole expense shall be responsible for providing protection for its own Work against inclement weather, in order to maintain all Work, materials, apparatus, and equipment. All Work subject to damage by adverse weather conditions shall be covered or otherwise protected as required. Weather protection shall be adequate to permit the Contractor to Work on a continuous basis without shutdown due to temperature or weather conditions as far as possible.
- 16.3.12 Dewatering: The Contractor at its sole expense shall provide all temporary drainage and dewatering measures including all pumping, drainage, erosion control or other work required to protect the Work while in progress.
- 16.3.12.1 Inundation of partially completed work due to lack of control during non-working periods will not be permitted, and may be cause for requiring removal of work already completed with replacement at the Contractor's expense.
- 16.3.12.2 The Contractor shall be responsible for obtaining the use of any property, in addition to that provided for in the plans and specifications, which may be required for the diversion and protective works so as not to create a hazard to persons or property or to interfere with the water rights of others.
- 16.3.12.3 It shall be understood and agreed that the Contractor shall hold the Owner and the Designated Representative harmless from legal action taken by any third party with respect to construction and operation of the diversion and protective works.
- 16.3.12.4 All works installed by the Contractor in connection with dewatering, control, and diversion of water but not specified to become a permanent part of the project, shall be removed and the site restored, insofar as practical, to its original condition prior to completion of construction or when directed by the Designated Representative.
- 16.3.13 Material Handling: The Contractor at its sole expense shall be responsible for handling and transporting, including lifting, its material and equipment to the location of need in a timely manner.
- 16.3.14 Cranes, Hoists and Scaffolds: The Contractor at its sole expense shall furnish, erect, maintain and remove all cranes, temporary hoists and scaffolding as may be required by the Contractor for the performance of the Work.
- 16.3.15 Storage: The Contractor at its sole expense shall provide and remove whatever temporary storage facilities, sheds, buildings, enclosures, partitions, etc., he deems necessary for the protection of its materials, tools and equipment after receiving approval from the Designated Representative on specific details of the method proposed. Any damage caused to Work in place by these temporary measures will be repaired / replaced at the Contractor's expense.
- 16.3.16 Security Fences: The Contractor at its sole expense shall provide temporary site enclosures (fences), barriers, and pedestrian walkways as indicated by the Contract Documents or as required to control access to the job site.
- 16.3.17 Security Services: The Contractor at its sole expense shall be responsible for job site security during various phases of the Work, including non-working hours and at other times, and as may be required for the protection of the Owner and the Designated Representative's interests. All costs for same will be paid by the Contractor.
- 16.3.18 Openings, Sleeves and Supports: The Contractor at its sole expense shall provide all necessary openings, channels, chases, flues, sleeves, inserts, hangers, etc, if any, and such cutting, patching, finishing, etc., if any, required by the Contract Documents to complete the Work.
- 16.3.19 Protection and Restoration of Existing Improvements: The Contractor at its sole expense shall be responsible for the protection of public and private property adjacent to the Work and shall exercise due caution to avoid damage to such property. All costs to the Contractor for protecting, removing, and restoring existing improvements shall be paid by the Contractor.
- 16.3.19.1 The Contractor at its sole expense shall repair or replace all existing improvements which are damaged or

- removed as a result of its operations and which are not designated for removal (e.g. curbs, sidewalks, driveways, fences, walls, ceilings, floor coverings, signs, utility installations, pavements, structures, trees, shrubbery, grass etc.).
- 16.3.19.2 Repairs and replacements shall be at least equal to existing improvements and shall match them in finish and dimensions in such a manner that the repaired work will not be readily noticeable.
- 16.3.20 Excavation Protection: The Contractor at its sole expense shall provide and maintain fencing, shoring and bracing and dewatering of all excavation.
- 16.3.21 Temporary Safety Measures: The Contractor at its sole expense shall provide, maintain and remove when no longer required all temporary safety measures, including all construction supplies, barricades, pedestrian walkways and equipment as may be required by the Contract Documents for its Work.
- 16.3.22 Advertising: The names of the Contractor, Subcontractors, the Architect/Engineer, including their consultants, with their addresses and the designation of their particular specialties, may be displayed on removable signs. The size, format and location of such signs shall be subject to the Designated Representative's approval. Commercial advertising matter shall not be attached or painted on the surfaces of buildings, fences, canopies, or barricades. All signs shall be removed when directed by the Designated Representative but not later than final acceptance of the Work.
- 16.4 SAFETY**
- 16.4.1 OSHA and California Codes and Regulations: The Contractor at its sole expense shall provide, erect, maintain, dismantle and remove any and all barricades, railings, covers, warning lights, safety netting, and similar safety devices required to complete its Work and protect the public in accordance with OSHA, California Administrative Code, Title 8 Industrial Relations, Chapter 4 Division of Industrial Safety, Section 4 Construction and Safety Orders, Article 8 Explosives, and all other applicable code requirements.
- 16.4.2 Traffic Control: The Contractor shall conduct its Work so as to interfere as little as possible with pedestrian and vehicular traffic and he shall, at its sole expense, provide and maintain proper warnings and detour signs at all pedestrian and vehicular closures, intersections and along detours, directing traffic around closed portions of roadways. He shall, at its own expense, wherever necessary or required, provide and maintain fences, temporary roadways, temporary crossing signs, watchmen, warning lights and take such other precautions as may be necessary to protect life and property and shall be responsible for all damages occasioned in any way by its act or neglect. All barricades and obstructions shall be illuminated at night and all lights shall be kept on from one-half hour before sunset until one-half hour after sunrise.
- 16.4.3 Fall Protection: When performing any cutting, removal, creating openings or holes, etc., the Contractor at its sole expense, by use of barricades, flagmen or other means, shall provide protective measures to assure that other workmen or the public are not exposed to potential injury by the operation being conducted.
- 16.4.4 Welding Protection: The Contractor at its sole expense shall provide, maintain and remove all shielding or similar precautions required to be taken adjacent to welding operations.
- 16.4.5 Personal Equipment: The Contractor at its sole expense shall provide and supervise the use of all proper safety and protective devices by its employees during any potentially dangerous phases of its Work.
- 16.4.6 Safety Orders: The Contractor shall have at the work site, copies or suitable extracts of: Construction Safety Orders, Electrical Safety Orders, and General Industrial Safety Orders issued by the State Division of Industrial Safety. The Contractor shall comply and shall require the compliance by all Subcontractors with provisions of these Safety Orders and all other applicable laws, ordinances, and regulations.
- 16.4.7 Trench Excavations: As required by Section 6705 of the California Labor Code and in addition thereto, whenever work under the Contract involves the excavation of any trench or trenches five (5) feet or more in depth, the Contractor shall submit for acceptance by the Owner, a detailed plan showing protection of the worker from the hazard of caving ground.
- 16.4.8 Use of Explosives: Explosives may be used only when authorized in writing by the Owner, or as otherwise stated in the Contract Documents. Explosives shall be handled, used, and stored in accordance with all applicable regulations. The Owner's approval of the use of explosives shall not relieve the Contractor from its liability for claims caused by its blasting operations.
- 16.4.9 Hazardous Materials: The Contractor shall immediately stop work if unforeseen suspected hazardous material conditions are encountered. The Contractor shall immediately report the unforeseen conditions in the written form of a request for information submitted to the Designated Representative. Work shall be resumed after the Owner has fully resolved the questions related to the unforeseen conditions and has remediated any hazardous materials determined to be present.

END OF GENERAL CONDITIONS

SPECIAL CONDITIONS

**Santa Barbara Courthouse – Public Defender Roof Rehabilitation
Project 8722
SPECIAL CONDITIONS**

1.CLEAN-UP

EVERY WORKING DAY--In accordance with General Conditions Section 5.15, the CONTRACTOR shall remove all surplus materials, rubbish, and debris resulting from their operation and shall leave the entire site insofar as the work hereunder is concerned, in a neat, clean and acceptable condition as approved by the County Representative.

The Courthouse is presently used by building occupants. The CONTRACTOR and Project Manager will conduct a preconstruction walkthrough of the project area to ensure it is clean, ready for construction, and a full inventory of the condition of site staging areas, areas immediately outside of the construction zone, etc. is taken. The CONTRACTOR is responsible for returning the areas surrounding the construction zone to pre-construction conditions or better.

2.ELECTRONIC FILES

All documentation submitted in accordance with General Condition shall be submitted electronically in addition to the required hard copies as Adobe PDF documents. The electronic file shall be submitted by CD, USB drive, e-mail, or cloud sharing service such as DropBox.

The Construction Schedule and Construction Schedule Updates submitted in accordance with General Condition section 5.10 shall be submitted electronically in addition to the required hard copies as both an Adobe PDF and Microsoft Project file (*.mpp file extension). The logic, durations, and float shall be easily accessible to the County.

3.COORDINATION WITH STATE and COUNTY STAFF AND VENDORS

The PROJECT may require coordination with both County forces and outside vendors directed by the County. The CONTRACTOR is responsible for integrating the County managed activities into the construction schedule, and allowing the work to occur concurrently. The work envisioned to be performed outside of the construction contract includes communications cabling, device, and outlet installation. Coordination with County directed work will not be grounds for compensable delays.

There is an active courtroom directly below the courthouse tower. The CONTRACTOR shall coordinate the noisy portions of the WORK as not to disturb the Court.

4.DEMOLITION

The courthouse and surrounding ground below shall be treated as occupied space. Debris chutes from the roof level are prohibited. Upon issuance of notice of intent to award, in addition to the construction schedule, the CONTRACTOR must submit a detailed demolition schedule clearly identifying the duration of demolition, timeframes for extra noisy activities, and highlighting any impacts to surrounding landscaping and building components or surrounding parking.

The building will continue to be occupied and used during the execution of the PROJECT. The CONTRACTOR shall provide for the noisiest portion of the WORK to be conducted after 5 p.m. when the building is closed.

5.CONTRACTOR EQUIPMENT

Tools, materials, containers, and dumpsters may be placed within the areas delineated, however ADA access and building emergency exiting must be kept clear at all times. The CONTRACTOR may use the staging area for staging of debris from the roof during demolition, but is responsible for any and all clean-up resulting from construction activities. Demolition materials may not remain on-site for

more than one (1) working day unless prior approval is granted by the County Project Manager. No demolition materials are to remain in any courthouse public use areas.

The CONTRACTOR will be responsible for completely fencing in the staging areas with a minimum 5' high chain link fence, and protecting the adjacent windows and finishes from damage. Repair of any damages is at sole risk, expense to contractor and shall be completed to the satisfaction of the County Architect.

Downtown Santa Barbara is a parking challenge for all who work there. The county is **not** responsible for providing parking to CONTRACTOR during construction and no on-site parking will be allowed, aside from limited parking within the confines of the staging area.

7. CONSTRUCTION BARRIERS

CONTRACTOR is responsible for all safety and access signage at all barriers.

CONTRACTOR is responsible for the heavy enforcement of the use of personal protective devices, including safety glasses and hard hats, for all persons within the construction area, including visiting consultants or sub-contractors.

CONTRACTOR is responsible for enforcing controlled access to construction areas. CONTRACTOR will notify COUNTY PROJECT MANAGER of any incidents of unauthorized access.

8. PREVAILING WAGES AND DAVIS BACON: Pursuant to the provisions of Section 1770 et seq. of the California Labor Code, the CONTRACTOR shall pay not less than the prevailing rate of per diem wages as determined by the Director of the Department of Industrial Relations. A copy of the prevailing rate of per diem wages is on file at the General Services Department.

A portion of the funding for this contract comes from Recovery Zone Economic Development Bonds. Accordingly, the successful bidder shall comply with federal Davis-Bacon and Related Acts prevailing wage requirements, including without limitation those found at 29 CFR 5.5(a)(1) through (10).

- **No contractor or subcontractor may be listed on a bid proposal or awarded a contract for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].**
 - **This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.**

DRAWINGS AND SPECIFICATIONS

SECTION 07325

CLAY ROOF TILES – HISTORICAL RENOVATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Furnish and install clay roof tile assembly including, but not limited to, underlayment, tile securement system and replacement of clay tile and accessories that are missing, cracked or damaged, where shown on the drawings, as specified herein, and as needed for a complete and proper installation.
 - 1. Furnish and install clay roof tile to replace all missing, cracked or otherwise damaged tile units, including units damaged during construction.
 - 2. Remove, store and protect tile during construction. Carefully pressure wash and clean existing tile without damaging tile prior to installation. Install existing and replacement tile following installation of underlayment. Coordinate site logistics with Santa Barbara County Facilities.
 - 3. Work shall be performed in accordance with Title 24, manufacturer's published instructions and the Contract Documents.
 - 4. System installation shall provide leak free roofing.

1.2 RELATED REQUIREMENTS

- A. Documents affecting work of this section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.

1.3 DEFINITIONS

- A. Roofing Terminology: See ASTM D 1079, glossaries in TRI/WSRCA's "Concrete and Clay Roof Tile Design Criteria Installation Manual for Moderate Climate Regions," and NRCA's "The NRCA Roofing and Waterproofing Manual" for definitions of terms related to roofing work in this Section.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Scheduling: Schedule work such that underlayment will not be left exposed to weather for longer than that recommended by the manufacturer but in no case left unprotected for more than 30 days.

- B. Preinstallation Meetings: Coordinate preinstallation meeting one week prior to commencement of tile removal to establish procedures to maintain required working conditions, to discuss site logistics and to coordinate this Work with related and adjacent Work. Preinstallation meeting attendees shall include representatives for Santa Barbara County Facilities and the County Architect, inspection firm, Contractor, roofing contractor and other subcontractors involved with the Work of this Section.

1.5 SUBMITTALS

- A. Within 15 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
 - 1. Materials list of items proposed to be provided under this Section;
 - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements;
 - 3. Shop Drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades.
- B. Product Data: For each type of product indicated.
- C. Samples for Initial Selection: For each type of clay roof tile and accessory tile indicated.
 - 1. Include similar Samples of trim and accessories involving color selection.
- D. Samples for Verification: For the following products, in manufacturer's standard sizes:
 - 1. Clay Roof Tile: Full size.
 - 2. Accessory Tile: Full size, each type.
 - 3. Mortar Color Sample: Large enough to compare mortar color to tile color.
 - 4. Fastenings: Each type.
- E. Provide shop drawings for County Architect approval for all details not included in the Contract Documents which become necessary; for any proposed changes; and for clarifications to the Drawings.
- F. Material Test Reports: For each type of clay roof tile.
- G. Research/Evaluation Reports: For clay roof tiles, fasteners, and fastener systems, from the ICC.
- H. Warranties: Sample of special warranties.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Clay Roof Tiles: 100 sq. ft. of each type, in unbroken bundles.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall meet or exceed the qualifications listed below and indicated elsewhere in the Contract Documents.
 - 1. A firm which has at least (10) years of experience in work of the type required by this Section, who can comply with manufacturers' warranty requirements.
 - 2. Installer shall adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work of this Section.
- B. Source Limitations: Obtain clay roof tiles and accessory tiles from single source from single manufacturer. Obtain tile wire tie system including fasteners and accessories from single source from single manufacturer.
- C. Fire-Test-Response Characteristics: Provide clay roof tiles and related roofing materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.
 - 1. Exterior Fire-Test Exposure: Class A; UL 790 or ASTM E 108, for application and roof slopes indicated.
- D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Build mockups for clay roof tiles including related roofing materials.
 - a. Size: 10 feet long by 10 feet wide.
 - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless County Architect specifically approves such deviations in writing.
 - 3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- E. A roofing quality control consultant may be retained to provide full-time quality control. Duties and functions of the quality controller shall include monitoring of the roofing system installation. The Work will be subject to continual audit by the Consultant. The Contractor is to notify Santa Barbara County Facilities, County Architect and Consultant when work is to begin in sufficient time to arrange roofing observation and is to remain in continual contact throughout the course of the job regarding scheduling of work.

- F. If, in the opinion of the contractor, any work is indicated on the Contract Drawings or specified in such a manner as to make it impossible to produce guaranteed and warranted work of highest quality, or should discrepancies appear from one Drawing to another or between Drawings and Specifications, the Contractor shall advise the County Architect in writing before proceeding.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver the materials to the job site in the manufacturer's unopened containers with all labels intact and legible at time of use.
- B. Store and handle materials in accordance with the manufacturer's published requirements, Contract Documents and in accordance with Santa Barbara County Facilities requirements. The more stringent requirements shall apply.
- C. Maintain the products in a dry condition during delivery, storage, handling, installation, and concealment.
- D. Protect from damage from sunlight, weather, excessive temperatures and construction operations.
- E. Remove damaged material from the site and dispose of in accordance with applicable regulations.
- F. Sequence deliveries to avoid delays, but minimize on-site storage.
- G. Store underlayment rolls on end, on pallets or other raised surfaces. Do not double stack rolls. Cover rolled goods with breathable type covering such as tarpaulin. Visqueen or other non-breathable plastic wraps are not acceptable.
- H. Handle, store, and place roofing materials in a manner to avoid significant or permanent damage to roof deck or structural supporting members.

1.10 PROJECT CONDITIONS

- A. Perform work only when existing and forecasted weather conditions are within the limits established by the manufacturer of the materials and products used.
- B. Proceed with installation only when substrate construction and preparation work is complete and in condition to receive waterproofing.

- C. Construction may not be as shown on the Drawings and some modification of details may be required to accomplish the intent of the documents. Contractor shall receive approval in writing from County Architect for all modifications or adjustments before commencing with the work.

1.11 WARRANTY

- A. Tile Manufacturer's Warranty: Standard form in which manufacturer agrees to repair or replace clay roof tiles that fail in materials within specified warranty period.
 - 1. Materials-Only Warranty Period: 75 years from date of Substantial Completion.
- B. Underlayment Manufacturer's Warranty: Underlayment manufacturer's standard warranty for manufacturer's membrane and accessory products covering defects in materials.
 - 1. Materials-Only Warranty Period: 10 years from date of Substantial Completion.
- C. Installer's Warranty: Roofing Installer's Warranty signed by roofing Installer, covering Work of this Section, in which roofing Installer agrees to repair or replace components of roofing that fail in materials or workmanship within the following warranty period:
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide products by one of the following or approved equal:
 - 1. Clay Tile: Subject to compliance with requirements, provide 2 piece Cordova clay roof tile by Gladding McBean or approved equal.
 - 2. Tile Fasteners, Wind Lock Nose Hooks & Accessories: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to Newport Tool & Fastener Company, Inc.

2.2 CLAY ROOF TILES

- A. Clay Tile: Molded-clay roof tile units of shape and configuration to match existing tile, kiln fired to vitrification, and free from surface imperfections. Include specially shaped, color-matched units as required for eaves, rakes, ridges, hips, valleys, and other conditions. Provide with fastening holes prepunched at factory before firing.
 - 1. Appearance: Match existing tile in all characteristics.

- B. Colors, Blends, and Patterns: Provide roof tiles with the following requirements:
 - 1. Match colors and patterns in the existing tile system.
 - 2. Blend: Blended to avoid streaks or hot spots. Bright yellow tiles shall not be installed.
 - a. 50 percent Blended Red
 - b. 45 percent #8 Mix
 - c. 5 percent Monterey Blend

2.3 ACCESSORIES

- A. Asphalt Roofing Cement: ASTM D 4586, Type II, asbestos free.
- B. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied.
- C. Elastomeric Sealant: ASTM C 920, elastomeric polyurethane-based joint sealant; Type S, Grade NS, Class 25, Use NT related to exposure, and, as applicable to joint substrates indicated, Use O.
- D. Roofing Asphalt: ASTM D 312, Type IV.
- E. Foam Adhesive: Two-component, polyurethane expanding adhesive recommended for application by clay roof tile manufacturer.
- F. Mortar: ASTM C 270, Type M, with ASTM C 979, pigmented mortar matching existing color exposed-to-view mortar, and natural color for concealed-from-view mortar as weather block at hips ridges and transitions.
- G. Eave Closure: Match existing characteristics including, but not limited to, material, size, color and shape.
- H. Tile Vents and Eave Closures: Manufacturer's recommended non-corroding screen vents and solid eave closures as required for application. Match existing characteristics including, but not limited to, material, size, color and shape.
- I. Accessory Products: Provide accessory products indicated in the Contract Documents and as required by the manufacturer for a complete roofing installation

2.4 FASTENERS

- A. Roofing Nails: ASTM F 1667, hot-dip galvanized-steel, 0.1055-inch- diameter shank, sharp-pointed, conventional roofing nails with ring shanks; minimum 3/8-inch-diameter head; of sufficient length to penetrate 3/4 inch into wood.
 - 1. Where nails are in contact with metal flashing, use nails made from same metal as flashing.
- B. Wire Ties: Stainless steel, 0.083-inch minimum diameter.
- C. Twisted-Wire-Tie System: Continuously twisted, two-wire unit with loops formed 6 inches apart, minimum 0.083-inch- diameter stainless-steel wire and 0.037-inch-diameter stainless-steel tie wires conforming to ASTM A580, with matching-metal folding clip deck anchors.
 - 1. Concrete Deck Anchor: Stainless steel double-plate anchor assembly with stainless steel compression spike.
- D. Wind Lock Nose Hook: Hot-dip galvanized-steel, 0.09-inch diameter wire device designed to secure butt edges of overlaid clay roof tiles. For hip and ridge trim tiles.

2.5 UNDERLAYMENT MATERIALS

- A. Self-Adhering Underlayment: ASTM D 1970, min. of 30 mils thick; slip-resisting, high temperature-rated, polyethylene-film-reinforced top surface laminated to butyl rubber adhesive or rubberized asphalt, with release-paper backing; cold applied.
 - 1. Products: Subject to compliance with requirements, provide products by one of the following:
 - a. Grace Ultra; Grace Construction Products
 - b. WIP 300HT; Carlisle Coatings & Waterproofing, Inc.
 - c. Approved equal.
 - 2. Criteria: Self-adhering underlayment shall meet the following criteria:
 - a. Must be able to resist temperatures up to 250 degrees F without degradation of the adhesive.
 - b. Tensile Strength: 250 psi minimum; ASTM D412.
 - c. Elongation: 250 percent minimum; ASTM D412.
 - d. Low Temperature Flexibility: Unaffected at -20 degrees F; ASTM D1970.
- B. Self-Adhering Flashing: Same product as self-adhering underlayment.

2.6 Primer: Manufacturer's standard primer for each substrate. METAL FLASHING AND TRIM

- A. Fabricate sheet metal flashing and trim to comply with recommendations that apply to design, dimensions, metal, and other characteristics of the item in SMACNA's "County Architectural Sheet Metal Manual" and TRI/WSRCA's "Concrete and Clay Roof Tile Design Criteria Installation Manual for Moderate Climate Regions." Install self-adhering sheet underlayment integrating deck to penetration prior to installing sheet metal.
 - 1. Apron Flashings: Fabricate with lower flange extending a minimum of 6 inches

over and 4 inches beyond each side of downslope tile roofing and 6 inches up the vertical surface.

2. Step Flashings: Fabricate with a head lap of 3 inches and a minimum extension of 4 inches both horizontally and vertically.
3. Channel Flashings: Fabricate with vertical surface extending a minimum of 4 inches above the clay roof tile and 6 inches beneath the tile roofing, with a 1-inch-high vertical return to form a runoff channel.
4. Rake Pan Flashings: Fabricate with vertical surface extending over fasciae and 6 inches beneath the tile roofing, with a 1-inch- high vertical return to form a runoff channel.
5. Cricket Flashings: Fabricate with concealed flange extending a minimum of 24 inches beneath upslope tile roofing, 6 inches beyond each side of penetration, and 6 inches above the roof plane.
6. Open-Valley Flashings: Fabricate in lengths not exceeding 10 feet, with 1-inch-high, inverted-V profile at center of valley and with equal flange widths of 12 inches.
7. Drip Edges: Fabricate in lengths not exceeding 10 feet, with 2-inch roof-deck flange and 1-1/2-inch fascia flange with 3/8-inch drip at lower edge.

C. Vent-Pipe Flashings: Two stage at underlayment level and at tile level; ASTM B 749, Type L51121, at least 1/16 inch thick. Provide 4 lb. lead sleeve sized to slip over and turn down into pipe, soldered to skirt at slope of roof and extending at least 4 inches from pipe onto roof.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
 1. Examine roof sheathing to verify that sheathing joints are supported by framing and blocking or metal clips and that installation is within flatness tolerances.
 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and completely anchored and that provision has been made for flashings and penetrations through roofing.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with Contract Documents and manufacturer's written instructions and recommendations.
- B. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this section.
- C. Install clay tile roofing system where shown on the Drawings, and in strict accordance with the manufacturer's recommendations as approved by the County Architect and Santa Barbara County Facilities.

3.3 UNDERLAYMENT INSTALLATION

- A. General: Comply with manufacturer's written instructions and recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual" and TRI/WSRCA's "Concrete and Clay Roof Tile Design Criteria Installation Manual for Moderate Climate Regions."
 - 1. Cover wood nailers with underlayment strips.
- B. Double-Layer Self-Adhering Underlayment: Install self-adhering sheet underlayment, wrinkle free, on roof deck. Comply with low-temperature installation restrictions of underlayment manufacturer if applicable. Install over entire roof deck, lapped in direction to shed water. Lap sides not less than 3-1/2 inches. Lap ends not less than 6 inches staggered 24 inches between courses. Roll laps with roller. Cover underlayment within seven days.
 - 1. Install two layers, laps staggered all directions between layers.
 - 2. Seal penetrations with manufacturer's recommended liquid membrane.
 - 3. Prime decks prior to installation of underlayment.
- C. Self-Adhering Flashing: Install wrinkle free; comply with low-temperature installation restrictions of underlayment manufacturer if applicable. Install at locations indicated on Drawings, lapped in direction to shed water. Lap sides not less than 19 inches. Lap ends not less than 6 inches, staggered 24 inches between succeeding courses. Roll laps with roller.
 - 1. Seal penetrations with manufacturer's recommended liquid membrane.
 - 2. Prime surfaces to receive self-adhering flashing as recommended by self-adhering flashing manufacturer.
- D. Metal-Flashed, Open-Valley Underlayment: Install two layers of 36-inch- wide self-adhering sheet underlayment centered in valley. Stagger end laps between layers at least 24 inches Lap ends of each layer at least 12 inches, in direction to shed water.
 - 1. Lap roof-deck felt underlayment over first layer of valley felt underlayment at least 6 inches.

3.4 METAL FLASHING INSTALLATION

- A. General: Install metal flashings and other sheet metal to comply with requirements manufacturer ('s).
 - 1. Install metal flashings according to clay roof tile manufacturer's written instructions and recommendations in NRCA's "The NRCA Roofing and

Waterproofing Manual," SMACNA's "County Architectural Sheet Metal Manual" and TRI/WSRCA's "Concrete and Clay Roof Tile Design Criteria Installation Manual for Moderate Climate Regions."

2. Flashing exposed to view shall be primed and painted with a minimum of two finish coats to match County Architects color sample.
- B. Apron Flashings: Extend lower flange over and beyond each side of downslope tile roofing and up the vertical surface.
 - C. Step Flashings: Install with a head lap of 3 inches and extend both horizontally and vertically. Install with lower edge of flashing just upslope of, and concealed by, butt of overlying tile. Fasten to roof deck only.
 - D. Cricket Flashings: Install against roof-penetrating elements, extending concealed flange beneath upslope tile roofing and beyond each side.
 - E. Open-Valley Flashings: Install centrally in valleys, lapping ends at least 8 inches in direction to shed water. Fasten upper end of each length to roof deck beneath overlap.
 1. Secure hemmed flange edges into metal cleats spaced 12 inches apart and fastened to roof deck.
 2. Adhere 9-inch- wide strips of self-adhering sheet to metal flanges and to self-adhering sheet underlayment.
 - F. Channel Flashings: Install over underlayment and fasten to roof deck.
 - G. Rake Pan Flashings: Install over underlayment and fasten to roof deck.
 - H. Rake Drip Edges: Install over underlayment and fasten to roof deck.
 - I. Eave Drip Edges: Install beneath underlayment and fasten to roof deck.
 - J. Pipe Flashings: Form flashing around pipe penetrations and tile roofing. Fasten and seal to tile roofing.

3.5 WOOD NAILERS

- A. Install wood nailers over completed underlayment system at ridges hips rakes and securely fasten to roof deck at 24 inches on center with minimum two 10d galvanized nails or #8 screws.
 1. Fasteners securing nailers shall not penetrate sheet metal flashing.
 2. Hips and ridge boards shall be held back from eaves, rake edges and walls approximately 6 to 8 inches. Boards shall run together at hip-to-ridge transitions.
 3. Nailers shall run continuous along hip and ridge without gaps.

3.6 CLAY ROOF TILE INSTALLATION

- A. General: Install clay roof tiles according to manufacturer's written instructions, to recommendations in TRI/WSRCA's "Concrete and Clay Roof Tile Design Criteria

Installation Manual for Moderate Climate Regions," and to NRCA's "The NRCA Roofing and Waterproofing Manual."

1. Maintain uniform exposure and coursing of clay roof tiles throughout roof.
 2. Wire-Tie Fastening: Install wire-tie systems and fasten clay roof tiles according to manufacturer's written instructions and ICC-ES ESR report.
 - a. Place twisted wire tie vertically up the roof deck from eave to ridge. Attach the deck anchor to the deck. Seal fastener head in membrane-compatible roofer's mastic complying with manufacturer's requirements.
 - b. Slip loops in the twisted wire tie system over stems of the anchor and bend stems apart to engage the wire. Secure tiles to wire tie system with separate wire ties. Twist wire-ties three full revolutions at each tie point.
 3. Setting: Install clay roof tiles according to TRI/FRSA's "Concrete and Clay Roof Tile Installation Manual."
 4. Install matching, specially shaped units at ridges, rakes, and hips.
 5. Cut and fit clay roof tiles neatly around roof vents, pipes, ventilators, and other projections through roof. Fill voids with mortar.
 6. All rake tiles are to be fastened with no less than two, nails with a minimum 3/8 inch head, and shall have a dab of roof cement or tile adhesive at overlap.
 7. All hip and ridge tiles shall be installed with a nail and a galvanized wind lock type nose hook. Also install a continuous bead of tile adhesive between overlapping area.
 8. Install clay roof tiles with color blend approved by County Architect.
- B. Installation of Accessories: Install eave closures, bird stops, wind locks, tile vents, closures, and other accessories with roof tile installation and according to manufacturer's published installation instructions and specified requirements.
1. Install wind locks at ridge tile butts, typical.
- C. Cracked or broken tiles shall not be installed or allowed to remain on the roof.
1. Chipped corners which compromise the required 3" head lap are to be considered broken and shall be replaced. Adhered-together broken tile are not acceptable.
- D. Mortar: Install mortar neatly forming a smooth, aesthetically pleasing ball which slopes to shed water. Mortar installation shall be aesthetically consistent throughout the project.
1. Mortar shall be installed at all trim tile terminations.
 2. All tiles in contact with cement mortar shall be immersed in water for at least 2 minutes before laying to avoid drying out the mortar before setting and curing.
- E. Clay Roof Tile Installation:
1. Install tile eave closure.
 2. Match existing tile laps and spacing between succeeding courses of tile.
 3. Install roll rake tiles.
 4. Install ridge tiles with laps facing away from prevailing wind. Seal laps with butyl sealant.
- F. Open Valleys: Re-use existing clay valley roof tiles to avoid cutting other tile unless cutting tile is necessary. Maintain uniform width of exposed open valley from highest

to lowest point.

1. Drill or notch cut valley tiles and wire-tie to fastener placed clear of valley metal flashings.
2. Do not nail tiles to metal flashings.

3.7 ADJUSTING

- A. Replace damaged materials specified in this Section with new materials that meet requirements.

3.8 DISPOSAL OF DAMAGED TILE

- A. Remove and dispose of damaged tile. Prior to the start of removal work, schedule site meeting with Santa Barbara County Facilities and its representatives to confirm quantity of pre-existing damaged tile.

3.9 STORAGE OF EXISTING TILE

- A. Remove and properly store existing tile to be re-used/re-installed free of potential damage and vandalism at a location to be determined by Santa Barbara County Facilities and its representatives.

3.10 CLEANING

- A. Clean all existing tile free of moss, dust, dirt and debris prior to reinstalling.
- B. Clean all walls, landscaping, and other areas in the vicinity of the work upon completion the tile and other required work.

3.11 STORAGE OF REMAINING "ATTIC" STOCK TILE

- A. Store remaining, extra tile at location to be determined by Santa Barbara County Facilities and its representatives.
- B. Provide plywood bins with pallet bottoms, reinforced corners, and with the capability to stack bins two high for tile storage.

3.12 PROTECTION AND CLEANING

- A. Protect completed underlayment and roofing and accessory products from subsequent construction activities and as recommended by manufacturer.
- B. Remove and replace damaged or broken clay roof tiles.
- C. Remove excess clay roof tiles, mortar and other debris from Project site.

END OF SECTION