

MONTEREY COUNTY
RESOURCE MANAGEMENT AGENCY

PUBLIC WORKS

BOOK ONE

**NOTICE TO CONTRACTORS AND
PROJECT SPECIFICATIONS**

**JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA
PROJECT NO. 8785
BID NO. 10410**



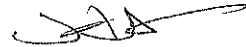
COVER SHEET

BOOK ONE

NOTICE TO CONTRACTORS AND PROJECT SPECIFICATIONS

JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA
PROJECT NO. 8785
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APPROVED AS TO FORM:



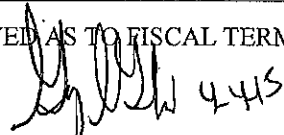
JESSE J. AVILA
Deputy County Counsel

APPROVED AS TO INDEMNITY/
INSURANCE LANGUAGE:



STEVEN F. MAUCK
Risk Manager

APPROVED AS TO FISCAL TERMS:



GARY GIBONEY
Chief Deputy Auditor Controller

TITLE SHEET

BOARD OF SUPERVISORS
COUNTY OF MONTEREY
STATE OF CALIFORNIA

Fernando Armenta, Chair
Dave Potter
Louis Calcagno
Simon Salinas
Jane Parker

Lew C. Bauman, P.E., Ph.D., County Administrative Officer
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Robert K. Murdoch, P.E. Director of Public Works
Paul H. Greenway, P.E., Assistant Director of Public Works
Marvin Rose, P.E., Executive Management Specialist

NOTICE TO CONTRACTORS AND PROJECT SPECIFICATIONS

**JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA
PROJECT NO. 8785 BID NO. 10410**

IN

MONTEREY COUNTY

FOR USE IN CONNECTION WITH THE CURRENT LABOR SURCHARGE EQUIPMENT RENTAL RATES, OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, BUSINESS AND TRANSPORTATION AGENCY. THE CURRENT GENERAL PREVAILING WAGE DETERMINED BY THE DIRECTOR OF INDUSTRIAL RELATIONS IS ON FILE WITH RMA-PUBLIC WORKS.

168 W. Alisal Street 2nd Floor
Salinas, CA 93901-2438
(831) 755-4800

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Asbestos and Lead Roof Survey Report, dated January 14, 2013

Under Separate Cover

Construction Drawings as prepared by Skyline Engineering, Inc.

SIGNATURE SHEET

BOOK ONE

DIVISION 00
NOTICE TO CONTRACTORS
AND PROJECT SPECIFICATIONS

JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA
PROJECT NO. 8785 BID NO. 10410

The drawings and specifications were prepared by SKYLINE ENGINEERING, INC.,
under the direct supervision of:


BRYAN SCHALESKY, P.E.

4-28-13
Date



License Exp: 12-31-14

PROJECT CONTACTS

BOOK ONE

DIVISION 00: CONTRACTS AND PURCHASING

**JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA
PROJECT NO. 8785
BID NO. 10410**

OWNER

**COUNTY OF MONTEREY
RMA-PUBLIC WORKS
ATTN: PROJECT MANAGER DAVE PRATT
168 W ALISAL ST
SALINAS CA 93901-2438
TELEPHONE: (831)755-4982 FACSIMILE: (831)755-4958
E-MAIL: prattdw@co.monterey.ca.us**

ENGINEER OF RECORD:

**SKYLINE ENGINEERING, INC.
ATTN: BRYAN SCHALESKY
8100 WILDHORSE ROAD
SALINAS, CA 93907
TELEPHONE: (831) 663-6188 FACSIMILE: (831) 663-6187
E-mail: bryan@skylineengineering.com**

COUNTY OF MONTEREY
RESOURCE MANAGEMENT AGENCY - PUBLIC WORKS

NOTICE TO CONTRACTORS

Sealed bids will be received at the OFFICE OF THE CLERK OF THE BOARD OF SUPERVISORS, COUNTY OF MONTEREY, 168 W. ALISAL STREET 1ST FLOOR, SALINAS, CALIFORNIA 93901 (MAILING ADDRESS: P O BOX 1728, SALINAS CA 93902-1728) until 2:00 p.m. on July 18, 2013, for:

**JUVENILE HALL INTERIM REPAIRS - GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA
PROJECT NO. 8785 BID NO. 10410**

as shown on the plans, at which time they will be publicly opened and read in the Board of Supervisors' Conference Room 1032.

The Scope for Base Bid, in general, consists of: installation of a new roof system at the Juvenile Hall Gymnasium and related repairs. Work to be done for Additive Alternate #1 consists of re-roofing of the lower deck covering the adjacent equipment room. The lowest responsible and responsive bidder will be determined for the project by adding the Base Bid plus Additive Alternate #1. Engineer's Estimate for construction of base bid elements is \$120,000. Work is scheduled to begin in October 2013, with completion anticipated by December 2013.

A MANDATORY BIDDERS' MEETING with the County Project Manager is scheduled for July 3, 2013, at 10 a.m., at 1420 Natividad Road, Salinas CA 93906, main entry.

The Bidder shall possess a valid Class B Contractor's license, at the time of bid opening.

A bidder's bond, issued by an admitted corporate surety company in an amount equal to at least ten percent of the amount bid, must accompany the bid.

The successful bidder shall furnish a payment bond and a performance bond each in the amount of 100 percent of the Contract.

Contract Documents are available ELECTRONICALLY and can be downloaded for free at the following Monterey County website: <http://www.co.monterey.ca.us/publicworks/bids.htm>. Interested bidders must register to view or download the documents. A copy of the electronic files on compact-disc (CD) is also available at MONTEREY COUNTY RMA-PUBLIC WORKS, 168 W. ALISAL STREET, 2ND FLOOR, SALINAS, CALIFORNIA 93901 for a nonrefundable fee of \$5.00. The electronic files can be used to print the project plans, project specifications, and other such documents at various printing companies.

Pursuant to Section 5.08.120 of the Monterey County Code, all contractors and subcontractors providing work, laborers, or material men on the project shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area in sufficient numbers so that no less than fifty percent (50%) of the contractor's total construction work force, on the project, including any subcontractor work force (with exception of specialty subcontractor items

identified in the bid items) measured in labor work hours is comprised of Monterey Bay Area residents.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county, or counties, in which the work is to be done have been determined by the Director of the California Department of Industrial Relations and are available at the RMA-Public Works, 168 W. Alisal Street, 2nd Floor, Salinas, CA 93901, and available from the California Department of Industrial Relations' Internet web site at <http://www.dir.ca.gov/DLSR/PWD>.

Pursuant to Public Contract Code section 22300, the Contractor may substitute securities for any monies withheld by the County to ensure performance under the contract.

The County reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding.

Date: June 18, 2013

ROBERT K. MURDOCH, P.E.
DIRECTOR OF PUBLIC WORKS
COUNTY OF MONTEREY

INFORMATION FOR BIDDERS

Division 00200

1. Invitation to Submit Bids

The County of Monterey invites bids to be submitted at such time and place stated in the Notice to Contractors. This "Information to Bidders" is intended to assist bidders in the preparation of their bids. If there is any inconsistency between the terms herein and any of the other contract documents, the terms in the other contract documents shall prevail.

2. Examination of Site, Bidding and Contract Documents

The project specifications, drawings, and other contract documents may be examined at RMA-Public Works' office at 168 West Alisal St. FL2/Salinas CA 93901/(831)755-4748. Also, Project documents may be viewed, downloaded, and printed for free directly from the Monterey County website project page: <http://www.co.monterey.ca.us/publicworks/bids.htm>. Interested parties must register to view or download documents. Alternately, interested parties may engage a printing service of their choosing to download and print documents from the County project page. Project documents may also be available to view at builders' exchanges listed on the same project page or members of Ebidboard can access materials directly from its website.

Each bidder shall visit the site of the proposed work and become fully acquainted with the conditions relating to the construction and labor in order to understand fully the facilities, difficulties, and restrictions attending the execution of the work under the contract. Bidders shall thoroughly examine and become familiar with the plans, specifications, working details, and existing conditions. The failure or omission of any bidder to receive or examine any contract documents, form, instrument, addendum, or other document, or to visit the site and become acquainted with conditions there existing shall in no way relieve such bidder from obligations with respect to such bid or to the contract. Submission of a bid shall be taken as prima facie evidence of compliance with this section.

3. Mandatory Bidder's Meeting

If a mandatory bidders' meeting is required in the Notice to Contractors, then a qualified representative of the bidder's firm must attend at the stated time and place. Failure to attend will be cause for rejection of the bid. Any bid received from a bidder who did not fully attend the mandatory bidders' meeting at the stated time and place will be returned unopened.

A MANDATORY BIDDERS' MEETING with County Project Manager is scheduled for July 3, 2013, at 10 a.m. at Juvenile Hall, 1420 Natividad Rd, Salinas CA 93906, main entry.

4. Contractor's License

Each bidder must be licensed to perform the project in accordance with the provisions of the Contractors' State Licensing Law, Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and in accordance with the Notice to Contractors. The Contractor's license number and expiration date of the license shall appear on the bid. The classification of the Contractor's License required for this project is "B."

5. Preparation of Bid Form

All bids must be submitted on the prescribed form. All blanks in the bid form must be

appropriately filled in, and all prices must be stated in both words and figures, with the lump sum for which the bid is made. All bids must be submitted in sealed envelopes bearing on the outside the bidder's name and address, the name of the project, the bid date and time, and the bid package number for which the bid is submitted. It is the sole responsibility of the bidder to see that the bid is received in proper time. Any bid received after the scheduled closing time for receipt of bids will be returned to the bidder unopened.

6. Erasures

The bid submitted must not contain any erasures, interlineations, or other corrections unless each such correction is suitably authenticated by affixing in the margin immediately opposite the correction the surname or surnames of the person or persons signing the bid, in the named person's own handwriting.

7. Modifications

Changes in or additions to the bid form, recapitulations of the work bid upon, alternative proposals, or any other modification of the bid form which is not specifically called for in the contract documents may result in the County's rejection of the bid as not being responsive to the invitation to bid. No oral or telephonic modification of any bid submitted will be considered. A telegraphic or telefax modification may be considered.

8. Signature

The bid must be signed in the name of the bidder and must bear the signature in longhand of the person or persons duly authorized to sign the bid. An original signature is required.

9. Interpretation of Plans and Documents

If any person contemplating submitting a bid for the proposed contract is in doubt as to the true meaning of any part of the plans, specifications, or other contract documents, or finds discrepancies in or omissions from the plans and specifications, he may submit to the County a written request for an interpretation or correction thereof. The person submitting the request shall be responsible for its prompt delivery. Any interpretation or correction of the contract documents will be made only by official project Q&A (questions/answers) or addendum duly issued, and a copy of such will be posted on the Monterey County website, RMA-Public Works' project page [www.co.monterey.ca.us/publicworks]. No oral interpretation of any provision in the contract documents will be made.

10. Bidding Questions

All questions regarding the project during the bidding process must be made in writing to the attention of the designated project bidding coordinator via E-mail, postal mail, or via facsimile (fax). Ebidboard members can also post their questions directly on the project page through Ebidboard.com. Contact information is listed on the County of Monterey website, RMA-Public Works' project page [www.co.monterey.ca.us/publicworks]. No telephone or verbal questions will be accepted. ***QUESTIONS RECEIVED AFTER July 9, 2013, 2:00 p.m. WILL NOT BE ACCEPTED.*** Answers to all questions and any addendum regarding the project will be posted on the County of Monterey Website, RMA-Public Works' project page [www.co.monterey.ca.us/publicworks/bids.htm, *select bid openings then project name*].

11. Bid Security

Each bid shall be accompanied by bidder's security in the form of cash, a certified or cashier's check payable to the County, or a satisfactory bid bond in the form included in this bid book

(Division 00440) in favor of the County executed by the bidder as principal and a satisfactory corporate surety authorized to do business in the State of California as an admitted surety insurer, in an amount not less than ten percent (10%) of the total bid amount. The security shall be given as a guarantee that, if the contract is awarded to the bidder, the bidder will execute the contract, provide any required insurance certificates, and provide any payment and performance bonds required by the contract within ten (10) workdays after the bidder receives a Notice of Intent to Award letter. After ten (10) workdays, if the proper bond and insurance documents are not submitted by the lowest responsive bidder, the County has the right to determine that bid non-responsive and contact the second lowest responsive bidder.

12. Listing Subcontractors

Each bidder shall submit with the sealed bid a list of the proposed subcontractors for the project as required by the Subletting and Subcontracting Fair Practices Act (Public Contract Code section 4100, et seq.). Forms for this purpose are furnished with the contract and bid documents. This includes all subcontractors performing work in an amount in excess of one-half of one percent of the prime contractor's total bid.

13. Prevailing Wage

The Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft or type of worker needed to execute the contract. Copies of the prevailing rate of per diem wages are on file and shall be made available to any interested party on request in the Resource Management Agency-Public Works' office located at 168 West Alisal Street FL2, Salinas CA 93901. It shall be mandatory upon the Contractor to whom the contract is awarded, and upon any subcontractor under him, to pay not less than said specified rates to all workers employed by them in the execution of the contract.

14. Workers' Compensation Certificate.

In accordance with the provisions of Section 3700 of the Labor Code, Contractor shall secure the payment of workers' compensation to their employees. The following certificate, which such form is included as part of the contract documents, shall accompany each bid:

I am aware of the provisions of Section 3700 of the Labor Code, which require every employer to be insured against liability for workers' 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.

15. Good-Faith Effort to Employ Residents of Monterey Bay Area:

In accordance with Section 5.08.120 of the Monterey County Code, all contractors and subcontractors providing work, laborers, or materialmen on the project shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area in sufficient numbers so that no less than fifty percent (50%) of the contractor's total construction work force, on the project, including any subcontractor work force (with exception of specialty subcontractor items identified in the bid items) measured in labor work hours is comprised of Monterey Bay Area residents. A certification form relating to compliance with Section 5.08.120 is furnished with the bid documents. Bidder must complete the certification form and submit the certification form with the sealed bid. The Monterey County Board of Supervisors may deem your bid non-responsive for failure to abide by the good-faith local hiring provisions of Section 5.08.120.

If any contractor submitting a bid for a contract for public works of improvement fails to abide by the good-faith local employment provisions of this Section, the contractor may be declared by the Board to be a non-responsive bidder for purposes of this Chapter. If a contractor lists in his or her bid a subcontractor who is currently disqualified under the terms of this Section, the Board may declare said contractor to be a non-responsive bidder for purposes of this Chapter. If the Board finds that a contractor to whom a contract for public works of improvement has been awarded has failed to comply with the good-faith employment provisions of this Section during the performance of the contract, the Board may disqualify the contractor from bidding on any County contract for public works of improvement for a period of one (1) year from the date of the Board's disqualification. A subsequent violation of this Section by a contractor may result in disqualification by the Board for a period of three (3) years from the date of the subsequent disqualification.

"Resident of Monterey Bay Area" means a person who resides within the boundaries of Monterey County, Santa Cruz County, or San Benito County.

A "good-faith effort" means the contractor will take the following or similar actions to recruit and maintain Monterey Bay Area residents as part of the construction workforce:

- Contact local recruitment sources, including local hiring halls, to identify qualified individuals who are Monterey Bay Area residents;
- Advertise for qualified Monterey Bay Area residents in trade papers, electronic/"on-line" sources, and newspapers of general circulation in the Monterey Bay Area, unless time limits imposed by the County do not permit such advertising.
- If portions of the work are to be performed by subcontractors, identify qualified subcontractors whose work force includes Monterey Bay Area residents; and
- If current workforce does not exceed the fifty (50) percent local hire requirement, develop a written plan to recruit Monterey Bay Area residents as part of the construction workforce.

The Contractor shall keep an accurate record on a standardized form showing the name, place of residence (not post office box), trade classifications, hours worked, proof of journeyman or apprenticeship status, per diem wages and benefits of each person employed by the contractor, the contractor's subcontractors on the project, including full-time, part-time, permanent, and temporary employees, make sure records are available to the County with submission of final certified payroll records prior to final payment.

The Contractor shall keep, and provide to the County, on forms acceptable to the County, an accurate record documenting compliance with this provision. Said records shall include; a listing by name and business address of all local recruitment sources contacted by the contractor, the date of the local recruitment contact and the identity and business address of the person contacted, the trade and classification and number of hire referrals requested, the number of local hires made as a result of the contract, and the residence address of the person(s) hired pursuant to the contact.

At the conclusion of the project, and at other intervals as may be deemed appropriate by the Project Manager, the Contractor shall provide a summary report of the percentage of actual labor work hours performed by Monterey Bay Area residents on the project.

Contractors and subcontractors are referred to the provisions of Section 5.08.120 of the Monterey County Code and the rules, regulations, and procedures adopted to implement Section 5.08.120, which are online at <http://library.municode.com/index.aspx?clientId=16111>.

16. Bidders Interested in More Than One Bid

No person, firm, or corporation shall be allowed to make, or file, or be interested in more than one bid for the same work unless alternate bids are specifically called for. A person, firm, or corporation that has submitted a sub-proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other bidders or making a prime proposal.

17. Withdrawal of Bids

Any bidder may withdraw their bid either personally, by written request, or by telefaxed request at any time prior to the scheduled closing time for receipt of bids.

18. Evidence of Responsibility

Upon request of the County, a bidder whose bid is under consideration for the award of the contract shall submit promptly to the County satisfactory evidence showing the bidder's financial resources, construction experience, and organization available for the performance of the contract, and upon written request, shall furnish the County a complete copy of its estimate and all appropriate backup information and supporting documents. The County may utilize this information as a basis for determining that a contractor is not responsible and, therefore, award the contract to the next lowest responsible and responsive bidder.

19. Early Completion of Project

If, as an express or implied condition of their bid, a bidder plans to complete the project before the completion date specified in the contract documents and the amounts bid for the work called for are dependent upon such early completion, the bidder must submit with his bid a preliminary work progress schedule in sufficient detail to permit the County of Monterey or its Architect to determine that the bidder's preliminary schedule presents a reasonable and practicable plan for performance.

- 1) The preliminary schedule shall be the bidder's proposed working schedule to plan, organize, and execute the work, record and report actual performance and progress, and show how the general contractor plans to complete all remaining work as of the end of each progress report period.
- 2) The preliminary schedule shall be in the form of an activity on arrow- oriented (*I-J format*) network diagram (Critical Path Method) and the principles and definition of the terms used shall be as set forth in the Associated General Contractors of America (AGC) publication.
- 3) Failure to include a detailed preliminary work progress schedule with the bidder's bid shall be conclusively deemed to constitute acceptance of the County's completion date as specified in the contract documents, and the bidder shall not thereafter be entitled to damages for any delays based on an early completion date proposed by the bidder.
- 4) Bidder who submits with his bid a preliminary work progress schedule which either (a)

lacks sufficient detail to permit the County to determine that the bidder's preliminary schedule presents a reasonable and practicable plan for performance or (b) is determined by the County or its Architect not to be a reasonable and practicable plan for performance shall be deemed non-responsive to the call for bids and his bid shall be rejected.

20. Award of Contract

The County reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding. The award of the contract, if made by the County, will be to the lowest responsible and responsive bidder. The lowest bidder will be determined for the project by adding Base Bid plus Additive Alternate #1.

21. Alternate Bids

If alternate bids are called for, the contract will be awarded to the lowest responsible and responsive bidder, who shall be the lowest bid price on the Base Bid contract plus Additive Alternate #1.

22. Documents required upon receipt of Notice of Intent to Award

Within ten (10) days after the bidder receives notice the Notice of Intent to Award letter, the successful bidder shall, in conformity with the contract documents, submit the following documents, including the number of originals required in the Special Conditions:

- 1) Executed Agreement (Division 00500);
- 2) A performance bond and a payment bond, each in an amount equal to one hundred percent of the contract sum, issued and executed by an admitted surety insurer, authorized to transact surety insurance in California (Division 00600 and 00610);
- 3) Insurance certificates showing that the successful bidder has obtained all required insurance coverage including endorsements; and
- 4) Such other documents as may be required by the contract documents.

23. Bid Security Return

The bid security shall be returned to the bidders promptly after a decision is made whether to accept a bid or reject all bids, except that if a contract award is to be made, the bid security of three or more of the lowest bidders (the number being at the discretion of the County) will be held for sixty (60) workdays after notice of award is received by the successful bidder or until the successful bidder returns the executed Agreement and posts the required bonds and certificates of insurance, whichever occurs first. If the successful bidder returns the required documents on time, all the remaining bid security will be returned.

24. Forfeiture for Failure to Execute Contract

If the bidder to whom a Notice of Intent to Award is made fails or refuses to execute the contract and post the required bonds and insurance certificates within ten (10) days from the date of receiving the Notice of Intent to Award letter, the County may declare the bidder's bid security forfeited as liquidated damages caused by the failure of the bidder to enter into the contract, and may award the work to the next lowest responsible and responsive bidder or may call for new bids. If the work is awarded to the next bidder, the County shall retain the remaining bid

securities until such time as a new award is completed with the execution of the Agreement and the posting of bonds and certificates. If new bids are called for, all remaining bid securities will be promptly returned.

25. Progress Payments and Substitution of Security

Progress payments to the Contractor will be made each calendar month on the basis of ninety percent (90%) of the value of the work performed. The final payment will be withheld for 35 days after completion of the project. Completion as used herein is defined as the date of acceptance of the Work by the County of Monterey Board of Supervisors. Upon the Contractor's request and agreement to substitute securities for the withheld funds, monies withheld from progress payments by the County to ensure performance under the contract may be released in accordance with Public Contract Code section 22300 and the contract documents.

26. Non-Discrimination

It is the policy of the County that in connection with all work performed under contracts, there be no discrimination against any prospective or active employee engaged in the work because of race, color, ancestry, national origin, religious creed, physical disability, mental disability, medical condition (cancer related), sex, sexual orientation, age (over 40), or marital status. The Contractor agrees to comply with all applicable federal, state, and local laws and/or regulations including, but not limited to, the California Fair Employment and Housing Act, Government Code Secs. 12900 et seq., Labor Code Sec. 1735, and Monterey County Code, Title 2, Chapter 2.80. In addition, the Contractor agrees to require like compliance by any subcontractors employed on the work by the Contractor.

27. Bid Protests

Who can file a protest?

Any Bidder or any directly affected party who is aggrieved in connection with the solicitation or award of contract (ex. Subcontractor), representatives of the above (ex. Unions) may file a bid protest.

Requirements for Filing a Protest

Bidders who wish to lodge a protest as to the award of the bid must do so before 5 p.m. of the fifth business day following the notice of intent to award the contract. Failure to timely file a written protest shall constitute a waiver of right to protest. Untimely protests will not be accepted or considered. Bid protests must be submitted, in writing, to: MONTEREY COUNTY RMA-PUBLIC WORKS TO THE ATTENTION OF THE PROJECT MANAGER/168 W ALISAL ST FL2/SALINAS CA 93901-2438. Protests may be hand-delivered or sent via facsimile [(831)755-4958], certified postal mail, or E-mail to the attention of the Project Manager at prattdw@co.monterey.ca.us Bid protests must include the project name and bid number, a complete statement describing the basis for the bid protest, including a detailed statement of all legal and factual grounds for the protest, any documentation supporting the protestor's grounds for the protest, and the form of relief requested and the legal basis for such relief. The party lodging the protest must also include their contact information including mailing address, telephone number, and E-mail address.

If a valid protest is timely filed, Public Works shall investigate the bid protest. The protested party shall have three (3) business days to respond to any requests to provide additional information from Public Works.

County Response to Protests Received

RMA-Public Works shall respond to the protesting party, in writing, stating its findings. The Director of Public Works shall submit a summary of bid protests received and make a recommendation to the Board of Supervisors regarding the bid protest(s).

BID FORM
Division 00300

MONTEREY COUNTY BOARD OF SUPERVISORS

MAILING ADDRESS	P O BOX 1728 SALINAS CA 93902
PHYSICAL ADDRESS	168 W. ALISAL ST 1 st FLR SALINAS CA 93901

BID PACKAGE NO. 10410

**JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA**

PROJECT NO. 8785

NAME OF BIDDER:

BUSINESS ADDRESS:

TELEPHONE NUMBER:

PLACE OF RESIDENCE:

BID FORM

BID PACKAGE NO. 10410

**JUVENILE HALL, INTERIM REPAIRS-GYM ROOF REPLACEMENT
1420 NATIVIDAD RD, SALINAS, CALIFORNIA**

PROJECT NO. 8785

TO: MONTEREY COUNTY BOARD OF SUPERVISORS

1. Pursuant to and in compliance with your Notice to Contractors Inviting Formal Bids and with the other documents relating thereto, the undersigned bidder, having become familiar with the terms of the contract, the local conditions affecting the performance of the contract, the cost of the work at the place where the work is to be done, the project plans and specifications, and the other contract documents, hereby proposes and agrees to perform within the time stipulated and to provide and furnish any and all labor, materials, equipment, transportation, utilities, and services necessary to perform the contract and complete in a workmanlike manner all of the work required in connection with the above project, all in strict conformity with the drawings and specifications and other contract documents, including addenda nos. ____, ____, and ____, for the sum hereinafter stated (in the event of a discrepancy between the words and figures, the amount in words will govern):

BASE BID: INSTALLATION OF A NEW ROOF SYSTEM AT THE JUVENILE HALL GYMNASIUM AND RELATED REPAIRS AS CALLED FOR IN THE DRAWINGS AND SPECIFICATIONS:

_____ Dollars

(\$ _____)

ADDITIVE ALTERNATE #1: INSTALLATION OF NEW ROOF FOR THE EQUIPMENT ROOM ADJACENT TO THE GYMNASIUM AS CALLED FOR IN THE DRAWINGS AND SPECIFICATIONS:

_____ Dollars

(\$ _____)

TABLE OF UNIT COSTS

<i>Item</i>	<i>Description</i>	<i>Unit</i>	<i>Cost</i>
1	Additional cost for providing deck leveling as specified in section 075400 3.02. Note that contractor has included 500 square foot of deck repair and leveling in the base bid. This unit cost shall be an additive or deductive number, dependent on the degree of required repairs.	square foot	\$
2		square foot	\$

2. **Determination of lowest responsible bidder** – Determination of lowest bidder will be based upon the sum of the Base Bid plus Additive Alternate #1. The contract will then be awarded to the Bidder submitting the lowest amount so calculated, or else all bids will be rejected. Unit pricing provided by the bidder, if any, shall be incorporated in the Agreement and shall be the basis for calculating any costs involving changes to the work. The County may contract with the successful bidder for all, some, or none of the alternates.

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

4. It is understood that the County of Monterey reserves the right to reject any and all bids or waive any informalities or irregularities in any bids or in the bidding.

5. This bid shall remain valid and will not be withdrawn by the undersigned bidder for a period of sixty (60) days from the date prescribed for opening of this bid without the written consent of the County of Monterey.

6. Attached hereto are the following:

- a) List of Proposed Subcontractors;
- b) Non-collusion Affidavit;
- c) Workers' Compensation Certificate;
- d) Affidavit Concerning Employment of Undocumented Aliens
- e) Contractor's Certification of Good-Faith Effort to Hire Monterey Bay Area Residents;
- f) Written Plan to Recruit Monterey Bay Area Residents, when applicable;
- g) Required bidder's security in an amount not less than 10% of the base bid amount;
- h) Detailed preliminary work schedule if the bidder plans to complete the project before the completion date specified in the contract documents; and
- i) Acknowledgment of Addenda, if any.

7. If this bid is accepted by the County of Monterey, then the undersigned shall, within ten (10) working days after receipt of the Notice of Intent to Award letter, execute and deliver to the County of Monterey (a) a contract in the form set forth in the contract documents on which this bid is based, (b) a payment bond for public works, as required by the contract documents, and (c)

a performance bond, as similarly required, and (d) an Insurance Certificate, as similarly required. The undersigned will thereafter commence and complete the work within the time required by the contract documents.

8. Notice of acceptance and any requests for additional information shall be addressed to the undersigned at the following address:

PROJECT MANAGER DAVE PRATT
RMA- PUBLIC WORKS
168 WEST ALISAL STREET FL2
SALINAS CA 93901-2438
TELEPHONE: (831) 755-4982 FACSIMILE: (831) 755-4958

9. The names of all persons interested in the foregoing proposal as principals are as follows:

_____	_____
Name	Title
_____	_____
Name	Title
_____	_____
Name	Title

(IMPORTANT NOTICE: If the bidder or other interested person is a corporation, state the legal name of the corporation, and the names of the president, secretary, treasurer, and manager thereof; if a partnership, state the name of the firm and the names of all the individual partners composing the firm; if the bidder or other interested person is an individual, state the first and last names in full and give all fictitious names under which the individual does business.)

10. By execution of this bid, the undersigned bidder declares that he or she is a contractor licensed in accordance with the Contractors' State License Law, as follows:

Classification: _____
License number: _____
Expiration date: _____

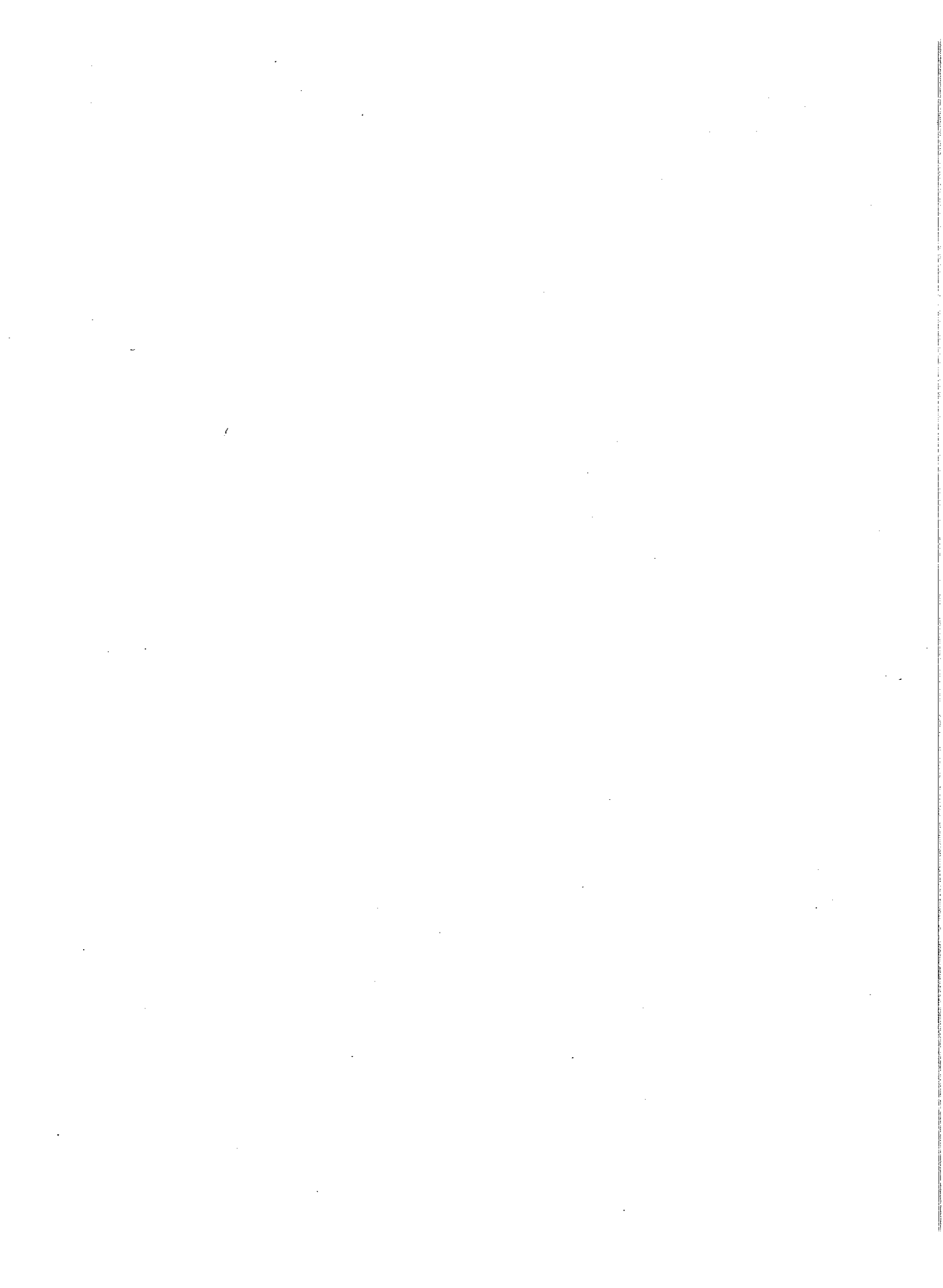
11. In the event the bidder to whom Notice of Intent to Award Contract is given fails or refuses to post the required bonds and insurance and return the executed copies of the agreement form within ten (10) working days from the date of receiving the Notice of Intent to Award letter Contract, the County may declare the bidder's security forfeited as damages and contract with the second lowest bidder.

12. Pursuant to section 7103.5(b) of the Public Contract Code, in submitting a bid to the County, the bidder offers and agrees that if the bid is accepted, it will assign to the County 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. Section 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, 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.

Dated _____, 2013
Bidder's Business Name _____
By _____
Principal Signature _____
Principal Name (Print) _____
Principal Title (Print) _____
By _____
Principal Signature _____
Principal Name (Print) _____
Principal Title (Print) _____
(Corporate Seal)

NOTE: If bidder is a corporation, the full legal name of the corporation shall be set forth above together with the signatures of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the full name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.



LIST OF SUBCONTRACTORS

Division 00350

In compliance with the Subletting and Subcontracting Fair Practices Act (Chapter 4 [commencing with section 4100], Part 1, Division 2 of the Public Contract Code) and any amendments thereto, each bidder shall set forth below: (a) the name and the location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement to be performed under this contract or a subcontractor licensed by the State of California who, under subcontract to the prime 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 prime contractor's total bid, and (b) the portion of the work which will be done by each subcontractor under this Act. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in this bid. The term "portion of work" refers to the type of work.

If a prime contractor fails to specify a subcontractor or if a prime contractor specifies more than one subcontractor for the same portion of the work to be performed under the contract in excess of one-half of one percent of the prime contractor's total bid, he shall be deemed to have agreed that he is fully qualified to perform that portion himself, and that he shall perform that portion himself.

No prime contractor whose bid is accepted shall: (a) substitute any subcontractor, (b) permit any subcontract to be voluntarily assigned or transferred or allow it to be performed by any one other than the original subcontractor listed in the original bid, or (c) sublet or subcontract any portion of the work in excess of one-half of one percent of the prime contractor's total bid as to which his original bid did not designate a subcontractor, except as authorized in the Subletting and Subcontracting Fair Practices Act. Subletting or subcontracting of any portion of the work in excess of one-half of one percent of the prime contractor's total bid as to which no subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the authority awarding this contract setting forth the facts constituting the emergency or necessity.

Bidder's Business Name:

By:

Print Name:

Print Title:

Date:

Check this box if no subcontractors are required to be listed for work or labor to be performed or services to be rendered.

PROVIDE ALL INFORMATION INDICATED BELOW

Portion of Work (Type)	Subcontractor Name, License Number and Expiration Date	Place of Business <i>Include Full Mailing Address/Telephone Number/E-mail Address</i>	(\$) Amount of Bid

(This form may be duplicated as necessary)

NONCOLLUSION DECLARATION
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID
(Public Contract Code Section 7106)
Division 00400

The undersigned declares:

I am the _____ of _____ the party making the foregoing bid.

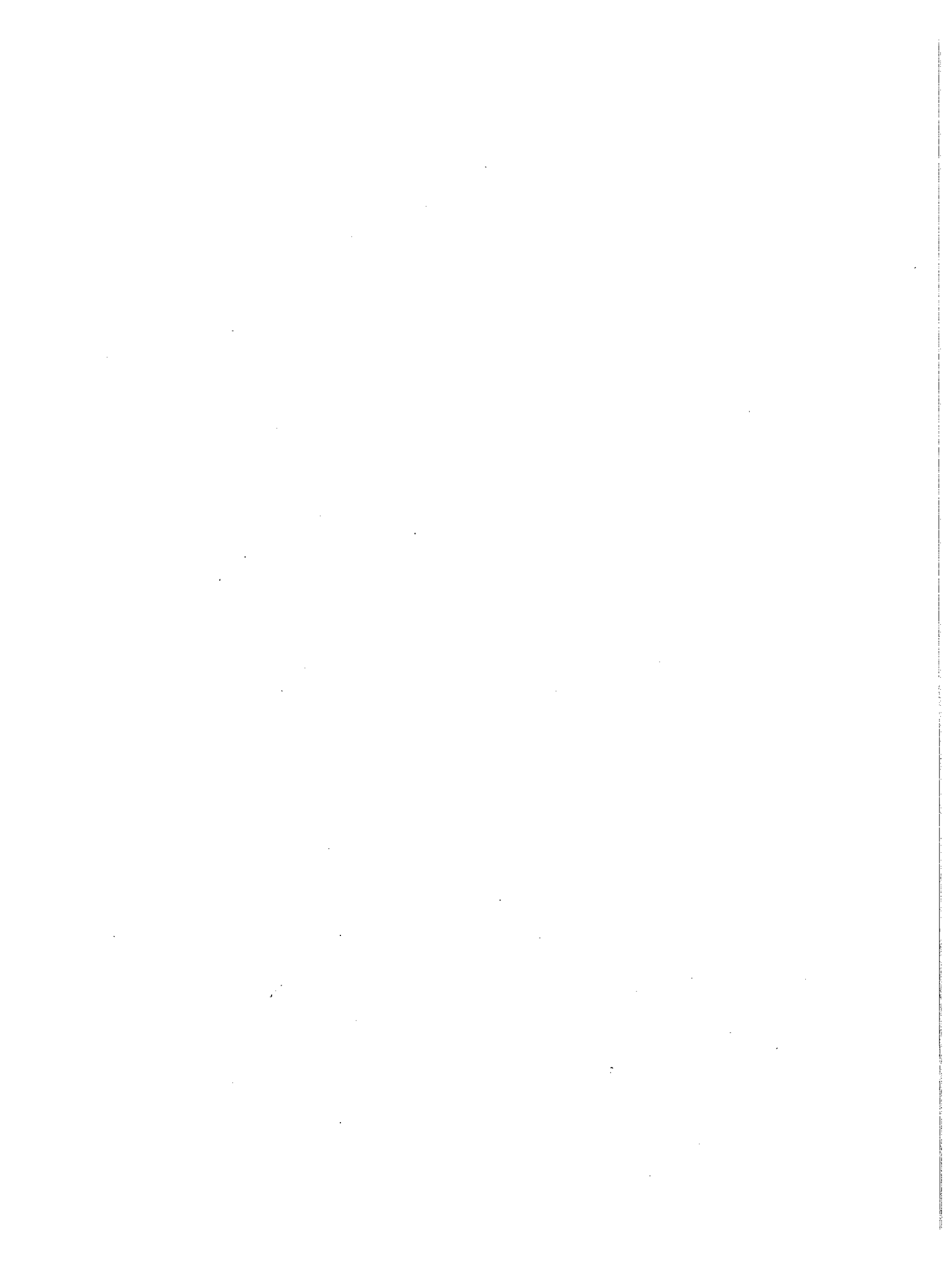
The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder 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. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The 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, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

Signature: _____

Print Name: _____



CONTRACTOR'S CERTIFICATE AS TO WORKERS' COMPENSATION

(Labor Code section 1861)

Division 00410

Labor Code section 3700 provides, in relevant part:

"Every employer except the state shall secure the payment of compensation in one or more of the following ways:

(a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this state.

(b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, either as an individual employer, or as one employer in a group of employers, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his or her employees."

I certify that I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Workers' 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.

Dated: _____

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____



AFFIDAVIT CONCERNING EMPLOYMENT OF UNDOCUMENTED ALIENS
TO BE SUBMITTED WITH BID

Division 00420

(Public Contract Code section 6101)

State of California)
) ss.
County of _____)

Public Contract Code section 6101 provides that,

No state agency or department, as defined in [Public Contract Code] Section 10335.7, that is subject to this code, shall award a public works or purchase contract to a bidder or contractor, nor shall a bidder or contractor be eligible to bid for or receive a public works or purchase contract, who has, in the preceding five years, been convicted of violating a state or federal law respecting the employment of undocumented aliens.

_____, being first duly sworn, deposes and says (1) that he or she is the _____ of _____, the party making the foregoing bid; and (2) that the party making the foregoing bid has not, within the preceding five years, been convicted of violating a state or federal law respecting the employment of undocumented aliens.

Dated: _____

Bidder's Business Name: _____

By: _____

Print Name: _____

Print Title: _____

Subscribed and sworn to me this _____ day of _____ 2013.

Notary Public in and for the County of

State of California

My Commission expires on: _____ [Notary Stamp]



CONTRACTOR'S CERTIFICATION OF GOOD-FAITH EFFORT TO HIRE

MONTEREY BAY AREA RESIDENTS

(Monterey County Code section 5.08.120)

Division 00430

I CERTIFY THAT I am aware of the provision of Monterey County Code Section 5.08.120.

Monterey County Code Section 5.08.120 provides, in relevant part:

- A. General Provisions. All County contracts for public works of improvement shall contain provisions pursuant to which the contractor shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area in sufficient numbers so that no less than fifty percent (50%) of the contractor's total construction work force, on that particular contract, including any subcontractor work force (with exception of specialty subcontractor items identified in bid items) measured in labor work hours, is comprised of Monterey Bay Area residents.
- B. Non-responsive Bidder Declaration: Enforcement. If any contractor submitting a bid for a contract for public works of improvement fails to abide by the good-faith local employment provisions of this Section, the contractor may be declared by the Board to be a non-responsive bidder for purposes of this Chapter. If a contractor lists in his or her bid a subcontractor who is currently disqualified under the terms of this Section, the Board may declare said contractor to be a non-responsive bidder for purposes of this Chapter. If the Board finds that a contractor to whom a contract for public works of improvement has been awarded has failed to comply with the good-faith employment provisions of this Section during the performance of the contract, the Board may disqualify the contractor from bidding on any County contract for public works of improvement for a period of one (1) year from the date of the Board's disqualification. A subsequent violation of this Section by a contractor may result in disqualification by the Board for a period of three (3) years from the date of the subsequent disqualification.
- C. Binding on Subcontractors. Every contractor entering into a contract for public works of improvement subject to the provisions of this Section shall include in each and every subcontract for work, laborers, or materialmen relating to the project the requirement that the subcontractor shall make a good-faith effort to employ qualified individuals who are, and have been for at least one (1) year out of the past three (3) years prior to the opening of bids, residents of the Monterey Bay Area. If the Board finds that any subcontractor has failed during the performance of the subcontract to comply with this Section, the Board may disqualify said subcontractor from submitting or being listed in any bid for any County contract for public works of improvement for a period of one (1) year from the date of the Board's disqualification. A subsequent violation by a subcontractor may result in disqualification by the Board for a period of three (3) years from the date of the subsequent disqualification."

I FURTHER CERTIFY AS FOLLOWS (check the box that applies):

I CERTIFY that at least fifty percent (50%) of the total construction work force on the project, including any subcontractor work force, measured in labor work hours, will be comprised of qualified individuals who to the best of my knowledge are, and have been for at least one (1) year out of the past three (3) years prior to the effective date of the opening of bids, residents of the Monterey Bay Area. Evidence that I will comply with this requirement is as follows (please use additional pages to provide supporting evidence and/or documentation, as necessary):

I CERTIFY that I shall make a good-faith effort to employ qualified individuals who, to the best of my knowledge, are, and have been for at least one (1) year out of the past three (3) years prior to the effective date of the opening of bids, residents of the Monterey Bay Area in sufficient numbers such that no less than fifty percent (50%) of the total construction work force on the project, including any subcontractor work force (with the exception of specialty subcontractor items identified in the bid items) measured in labor work hours, will be comprised of Monterey Bay Area residents. Attached is my written plan to recruit Monterey Bay Area residents as part of the construction workforce

I CERTIFY that I do not comply with and am unable to make a good-faith effort to comply with the good-faith local employment provisions set forth in Monterey County Code Section 5.08.120. Explanation to why I am not able to comply is as follows (please use additional pages to provide supporting evidence and/or documentation, as necessary):

I declare under penalty of perjury under the laws of the State of California that the foregoing certification is true and correct. Executed on (date) _____
at (city/state) _____.

Bidder's Business Name

Signature: _____

Print Name: _____

Title: _____

BID BOND
Division 00440

(Public Contract Code Section 20129)

WHEREAS the Principal has submitted the accompanying bid dated _____, to the County of Monterey, for the following project: **JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT, 1420 NATIVIDAD RD, SALINAS, CALIFORNIA PROJECT NO. 8785, BID PACKAGE NO. 10410**; and

WHEREAS, Principal, as bidder, is required to furnish a bond executed by an admitted surety in connection with said bid, to secure the timely execution of the contract and delivery of bonds and insurance certificates, in the event that the contract is awarded to the Principal.

NOW, THEREFORE, we _____ as Principal, and

_____ as Surety,
are held and firmly bound unto the County of Monterey, a political subdivision of the State of California (hereinafter called "County"), in the penal sum of _____ Dollars (\$ _____), which sum is not less than ten percent (10%) of the base bid amount including all alternates of the Principal submitted to the said County for the above-described project, 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, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If the Principal is awarded the contract and, within the time and manner required under the contract documents for the above-described project, after the prescribed forms are presented to him for signature, (1) enters into a written contract in the prescribed form, in accordance with the bid, (2) files such insurance certificates with the County as may be required by said contract documents, and (3) files a performance bond and a payment bond with the County, in conformity with said contract documents, then this obligation shall be null and void; otherwise, it shall remain in full force.

Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed there under, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

If the County brings suit upon this bond and judgment is recovered, the Surety shall pay all litigation expenses incurred by the County in such suit, including attorneys' fees, court costs, expert witness fees and investigation expenses.

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

(Corporate Seal)

Principal

By: _____

Title: _____

(Corporate Seal)

Surety

By: _____

Title: _____

Attach: 1) A Copy of authorization for signature for Principal, and 2) An original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

AGREEMENT

Division 00500

THIS AGREEMENT is made by and between the COUNTY OF MONTEREY, a political subdivision of the State of California, hereinafter called "COUNTY," and NAME OF CONTRACTOR, hereinafter called "CONTRACTOR." For reference purposes, the date of this Agreement is _____.

THE COUNTY AND THE CONTRACTOR hereby agree as follows:

ARTICLE 1. SCOPE OF WORK.

The CONTRACTOR shall, within the time stipulated, perform the contract as herein defined and shall furnish all work, labor, equipment, transportation, material, and services to construct and complete in a good, expeditious, workmanlike, and substantial manner, the project: **JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT, 1420 NATIVIDAD RD, SALINAS, CALIFORNIA PROJECT NO. 8785, BID PACKAGE NO. 10410.**

All work shall be completed in strict conformance with the plans, specifications, and working details prepared by SKYLINE ENGINEERING, INC., and the provisions of the documents listed in Article 6 below, and to the satisfaction of the COUNTY.

ARTICLE 2. TIME FOR START AND COMPLETION.

CONTRACTOR shall commence the work on the starting date established in the Notice to Proceed and shall complete the bid work within the overall project duration of FORTY-FIVE (45) days as it pertains to CONTRACTOR's scope of work as defined by the contract documents. Additionally, CONTRACTOR shall coordinate their work with all other contractors whose work is affected by the scope of work defined in this Agreement. CONTRACTOR expressly agrees to provide appropriate labor, materials, and equipment in response to adjustments in the Project Schedule made by the Monterey County Director of Public Works or his/her designee during the course of the project in order to maintain the required progress.

ARTICLE 3. CONTRACT PRICE.

The COUNTY shall pay the CONTRACTOR as full consideration for the performance of the contract, subject to any additions or deductions as provided in the contract documents, the contract sum of WRITTEN AMOUNT, (\$NUMERICAL AMOUNT).

ARTICLE 4. LIQUIDATED DAMAGES.

THE PARTIES AGREE THAT IN CASE ALL THE WORK CALLED FOR UNDER THE CONTRACT IN ALL PARTS AND REQUIREMENTS IS NOT COMPLETED WITHIN THE TIME SPECIFIED IN THE CONTRACT DOCUMENTS, DAMAGE WILL BE SUSTAINED BY THE COUNTY, AND THAT IT IS AND WILL BE IMPRACTICABLE AND EXTREMELY DIFFICULT TO DETERMINE THE ACTUAL DAMAGE WHICH THE COUNTY WILL THEREBY SUSTAIN. THE PARTIES THEREFORE AGREE THAT THE CONTRACTOR WILL PAY TO THE COUNTY THE SUM SET FORTH IN THE **SPECIAL CONDITIONS**, IF ANY, FOR EACH CALENDAR DAY OF DELAY UNTIL THE WORK IS

COMPLETED AND ACCEPTED. CONTRACTOR AND HIS SURETY SHALL BE LIABLE FOR THE TOTAL AMOUNT THEREOF. THE CONTRACTOR AGREES TO PAY SAID LIQUIDATED DAMAGES ESTABLISHED HEREIN, AND FURTHER AGREES THAT THE COUNTY MAY DEDUCT THE AMOUNT THEREOF FROM ANY MONIES DUE OR THAT MAY BECOME DUE THE CONTRACTOR UNDER THE CONTRACT.

ARTICLE 5. NOTIFICATION OF THIRD-PARTY CLAIMS.

COUNTY shall notify CONTRACTOR of the receipt of any third-party claim relating to the contract and is entitled to recover its reasonable costs incurred in providing the notification as provided in Public Contract Code Section 9201.

ARTICLE 6. COMPONENT PARTS OF THIS CONTRACT.

The contract entered into by this Agreement consists of the following documents, all of which are component parts of the contract as if herein set out in full or attached hereto:

- Notice to Contractors
- Information for Bidders
- Bid, as accepted
- List of Subcontractors
- Noncollusion Affidavit
- Workers' Compensation Certificate
- Affidavit Concerning Employment of Undocumented Aliens
- Contractor's Certification of Good Faith Effort to Hire Monterey Bay Area Residents
- Written Plan to Recruit Monterey Bay Area Residents, when applicable
- Bid Bond or Bidder's Security
- Agreement
- Performance Bond
- Payment Bond
- Insurance Certificate
- Division 00710 General Conditions, Bid No. 10410
- Division 00730 Special Conditions, Bid No. 10410
- Technical Specifications, Plans and Working Details as Prepared by Skyline Engineering, Inc.
- Exhibits: Preliminary Project Schedule; Asbestos and Lead Roof Survey Report, dated January 14, 2013
- Project Addenda Nos. _____, _____, _____, as issued

All of the above-named contract documents are intended to be complementary. Work required by one of the above-named contract documents and not by others shall be done as if required by all.

IN WITNESS WHEREOF, the parties have duly executed four (4) identical counterparts of this instrument, each of which shall be for all purposes deemed an original thereof, on the dates set forth below.

COUNTY OF MONTEREY

By: _____

Name: Robert K. Murdoch, P.E.

Title: Director of Public Works

Date: Month ___ 2013

APPROVED AS TO FORM

CONTRACTS/PURCHASING

By: _____

Name: Mike Derr

Title: Contracts/Purchasing Officer

Date: Month ___ 2013

APPROVED AS TO FORM & LEGALITY

COUNTY COUNSEL

By: _____

Name: Jesse J. Avila

Title: Deputy County Counsel

Date: Month ___ 2013

APPROVED AS TO FISCAL TERMS

COUNTY AUDITOR-CONTROLLER

By: _____

Name: Gary Giboney

Title: Chief Deputy Auditor-Controller

Date: Month ___ 2013

**APPROVED AS TO INDEMNITY/INSURANCE
LANGUAGE**

RISK MANAGEMENT

By: _____

Name: Steven F. Mauck

Title: Risk Manager

Date: Month ___ 2013

CONTRACTOR: NAME OF COMPANY

By: _____

Name: Name of Principal

Title: Title of Principal

Date: Month ___ 2013

By: _____

Name: Name of Secondary

Title: Title of Secondary

Date: Month ___ 2013

COMPANY ADDRESS:

STREET ADDRESS

CITY/STATE/ZIP

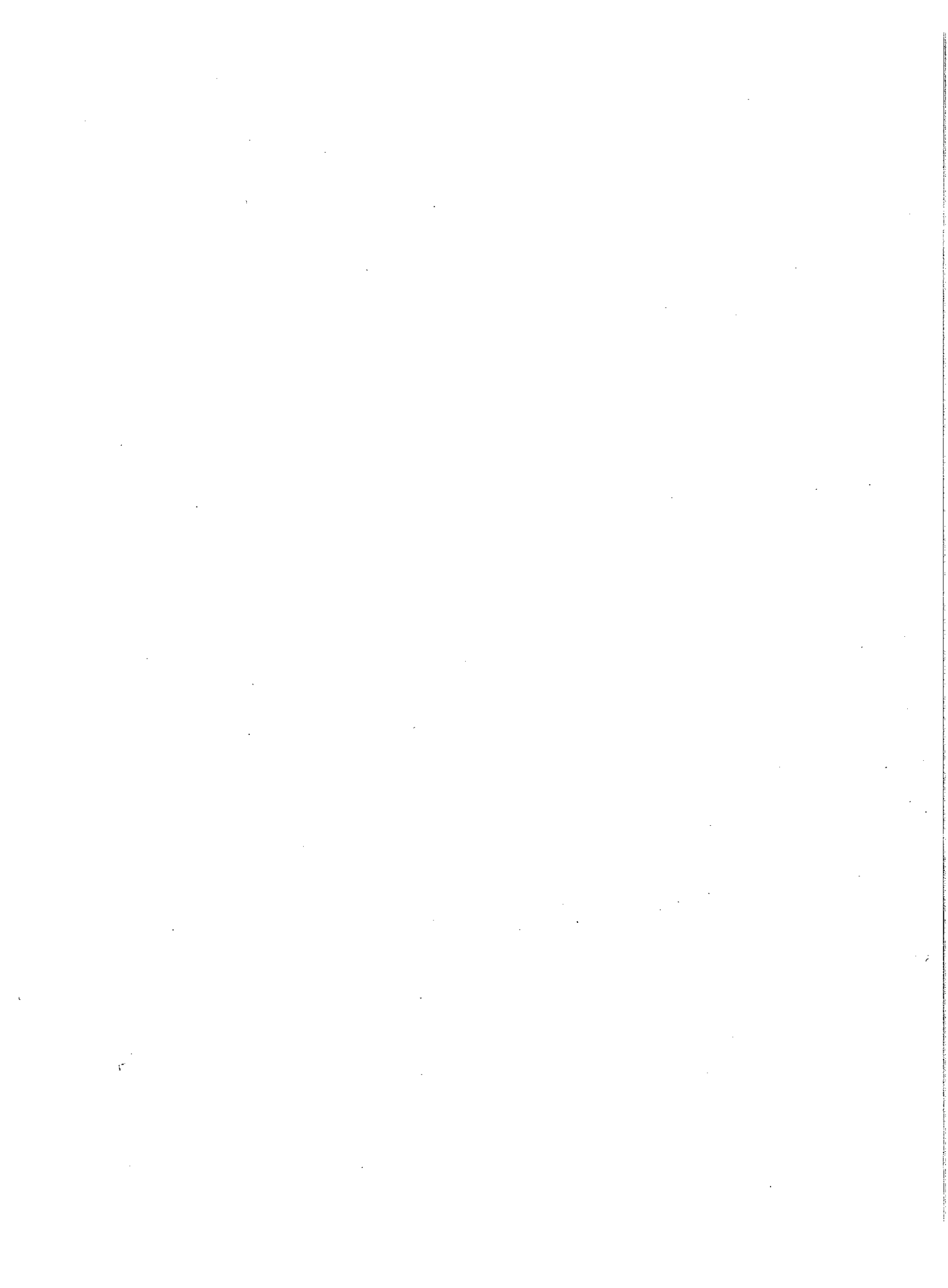
Contractor's License Type: XXXX

License Number: XXXXX

License Expiration Date: XXXX

NOTE: CONTRACTORS ARE REQUIRED TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE BOARD. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD/P O BOX 26000/ SACRAMENTO CA 95826

INSTRUCTIONS: If bidder is a corporation, the full legal name of the corporation shall be set forth above together with the signatures of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the full name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.



PERFORMANCE BOND
(Public Contract Code Section 20129)
Division 00600

WHEREAS, the County of Monterey has awarded to Principal,

as Contractor, for the following project:

JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT, 1420 NATIVIDAD RD, SALINAS, CALIFORNIA PROJECT NO. 8785, BID PACKAGE NO. 10410; and

WHEREAS, Principal, as Contractor, is required to furnish a bond in connection with said contract, to secure the faithful performance of said contract.

NOW, THEREFORE, we _____

as Principal, and _____

as Surety, are held and firmly bound unto the County of Monterey, a political subdivision of the State of California (hereinafter called "County"), in the penal sum of _____ Dollars (\$ _____), 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, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If the Principal, as Contractor, or Principal's heirs, executors, administrators, successors, or assigns, (1) shall in all things stand to and abide by and well and truly keep and perform the covenants, conditions, and agreements in said contract and any alteration thereof made as therein provided, on Principal's part to be kept and performed, at the time and in the manner therein specified and in all respects according to their true intent and meaning, and (2) shall indemnify, defend, and save harmless the County, the members of its board of supervisors, and its officers, agents, and employees as therein stipulated, then this obligation shall become null and void; otherwise, it shall be and remain in full force and virtue.

Surety hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or the call for bids, or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

Whenever the Principal, as Contractor, is in default, and is declared in default, under the Contract by the County of Monterey, the County of Monterey having performed its obligation under the contract, Surety may promptly remedy the default, or shall promptly:

1. Complete the contract in accordance with its terms or conditions, or
2. Obtain a bid or bids for submission to County of Monterey for completing the Contract in accordance with its terms or conditions, and upon determination by the County of Monterey and Surety of the lowest responsible and responsive bidder, arrange for a contract between such bidder and the County of Monterey, and make available as work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price.

If suit is brought upon this bond by the County and judgment is recovered, the Surety shall pay all litigation expenses incurred by the County in such suit, including attorneys' fees, court costs, expert witness fees, and investigation expenses.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals this ____ day of _____, 2013, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

Principal

By: _____

Title: _____

(Corporate Seal)

Surety

By: _____

Title: _____

Attach: 1) Copy of authorization for signature for Principal, and 2) original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

PAYMENT BOND
(Civil Code section 9550)
Division 00610

WHEREAS, the County of Monterey has awarded to Principal,

as Contractor, a contract for the following project:
**JUVENILE HALL INTERIM REPAIRS-GYM ROOF REPLACEMENT, 1420 NATIVIDAD RD,
SALINAS, CALIFORNIA PROJECT NO. 8785, BID PACKAGE NO. 10410;** and

WHEREAS, Principal, as Contractor, is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materialmen, and other persons furnishing labor and materials on the project, as provided by law.

NOW, THEREFORE, we _____
as Principal, and _____

as Surety, are held and firmly bound unto the County of Monterey, a political subdivision of the State of California (hereinafter called "County"), and to the persons named in California Civil Code section 9100 in the penal sum of _____ Dollars (\$_____), 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, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If Principal or any of Principal's heirs, executors, administrators, successors, assigns, or subcontractors (1) fails to pay in full all of the persons named in Civil Code Section 9100 with respect to any labor or materials furnished by said persons on the project described above, or (2) fails to pay in full all amounts due under the California Unemployment Insurance Code with respect to work or labor performed under the contract on the project described above, or (3) fails to pay for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Principal and subcontractors pursuant to Unemployment Insurance Code section 13020 with respect to such work and labor, then the Surety shall pay for the same.

Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

If the County brings suit upon this bond and judgment is recovered, the Surety shall pay all litigation expenses incurred by the County in such suit, including attorneys' fees, court costs, expert witness fees and investigation expenses.

This bond inures to the benefit of any of the persons named in Civil Code section 9100, and such persons or their assigns shall have a right of action in any suit brought upon this bond, subject to any limitations set forth in Civil Code sections 9550 et seq. (Civil Code, Division 4, Part 6, Title 3, Chapter 5: Payment Bond for Public Works).

IN WITNESS WHEREOF the above-bounden parties have executed this instrument under their several seals this _____ day of _____, 2013, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

Principal

By: _____

Title: _____

(Corporate Seal)

Surety

By: _____

Title: _____

Attach: 1) Copy of authorization for signature for Principal, and 2) original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

GENERAL CONDITIONS

Division 00710

PART I. INTRODUCTION

ARTICLE 1. DEFINITIONS.

1.01. Architect. The "Architect" is the person or organization identified in the Agreement as the Architect, or their authorized representative, or the replacement designated in writing by County. All references to the "Architect" in the Special Conditions and General Conditions for this project shall be a reference to **SKYLINE ENGINEERING, INC.**

1.02. Change Order. "Change Order" means a written modification of the Contract between the County and Contractor, signed by the County, the Contractor, and the Architect/Engineer.

1.03. Change Order Proposal. "Change Order Proposal" means a Contractor-generated document in response to a Change Order Request (COR).

1.04. Change Order Request. "Change Order Request" (COR) means a document which informs the Contractor of a proposed change in the Work, and appropriately describes or otherwise documents such change.

1.05. Close-Out Documents. "Close-Out Documents" means the product brochures, product/equipment maintenance and operations instructions, manuals, and other documents/warranties, as-built record documents, affidavit of payment, release of lien and claim, and as may be further defined, identified, and required by the Contract Documents.

1.06. Construction Project Manger. "Construction Project Manger" is the person designated by the Director of Public Works responsible for the management of the construction component of the project.

1.07 Contract. "Contract" means the entire agreement between County and Contractor, including all of the Contract Documents.

1.08 Contract Date. "Contract Date" is the date when the agreement between the County and the Contractor becomes effective.

1.09. Contract Sum. The "Contract Sum" is stated in the Agreement and is the total amount payable by the County to the Contractor for the performance of the work under the contract.

1.10. Contract Time. "Contract Time" means the period between the Start Date identified in the Notice to Proceed with Construction and the Substantial Completion Date identified in the Notice to Proceed or as subsequently amended by Change Order.

1.11. Contractor. The "Contractor" means the individual, corporation, company, partnership, firm, or other entity contracted to perform the Work and identified as such in the Agreement, or their authorized representative, regardless of the type of construction contract used, so that the term as used herein includes a Construction Manager-at-Risk or a Design-Build firm as well as a

General or Prime Contractor. The contract documents refer to Contractor as if singular in number.

1.12. County. The "County" is the County of Monterey, the Owner of the project and identified as such in the Agreement, or its authorized representative.

1.13. Date of Commencement. "Date of Commencement" means the date designated in the Notice to Proceed for the Contractor to commence the Work.

1.14. Final Completion. "Final Completion" means the date determined and certified by the Architect/Engineer and County on which the Work is fully and satisfactorily complete in accordance with the Contract.

1.15. Owner. "Owner" means the County of Monterey.

1.16. Owner's Designated Representative. "Owner's Designated Representative" (ODR) means the individual assigned by the County (Owner) to act on its behalf, and to undertake certain activities as specifically outlined in the Contract. The ODR is the only party authorized to direct changes to the scope, cost, or time of the contract.

1.17. Project. "Project" means all activities necessary for realization of the Work. This includes design, contract award(s), execution of the Work itself, and fulfillment of all contract and warranty obligations. The work performed under this contract is directed towards completion of all or a part of the project.

1.18. Project Manager. The "Project Manager" (PM) is the person designated by the Director of Public Works responsible for the management of the project.

1.19. Samples. "Samples" are representative physical examples of materials, equipment, or workmanship, used to confirm compliance with requirements and/or to establish standards for use in execution of Work.

1.20. Schedule of Values. "Schedule of Values" means the detailed breakdown of the cost of the materials, labor, and equipment necessary to accomplish the Work as described in the Contract Documents, submitted by Contractor for approval by County and Architect/Engineer.

1.21. Shop Drawings. "Shop Drawings" means the drawings, diagrams, illustrations, schedules, performance charts, brochures, and other data prepared by the Contractor or any subcontractor, manufacturer, supplier, distributor, or agents, and which detail some portion of the work for fabrication and installation.

1.22. Site. The "Site" is the geographical area of the location of Work.

1.23. Subcontractor. "Subcontractor" is a person or organization who has a direct contract with the Contractor to perform any of the work at the site or to furnish material worked to a special design according to plans and specifications of this work. The term "subcontractor" also includes sub-subcontractors performing work at the site or furnishing specially designed material for the work, who have only an indirect relationship to the Contractor.

1.24. Substantial Completion. "Substantial Completion" means the date determined and certified by the Contractor, Architect/Engineer, and County when the Work or a designated portion thereof is sufficiently complete, in accordance with the Contract, so as to be operational and fit for the use intended.

1.25. Work. The "Work" includes all labor necessary to produce the construction required by the contract documents, and all materials and equipment incorporated or to be incorporated in such construction.

ARTICLE 2. CONTRACT INTERPRETATION.

2.01. Counting time. When any provision in the contract documents calls for computation of time in terms of days, the period so counted shall include all calendar days within the period, including usual workdays as well as weekends and holidays. Business Days and Workdays refer to Monday through Friday, eight-hour duration.

2.02. Gender and number. References to one gender include the other; references to either singular or plural include the other.

2.03. Headings. Article and paragraph headings are for convenience only, and shall not be used to interpret the provisions of this contract.

2.04. Express and implied work requirements. This contract requires the performance of all elements of work expressly mentioned herein, together with all elements of work that are reasonably inferable from the express terms of this contract as being necessary for the proper completion of the work.

2.05. Technical or trade meanings. Words which have well-known technical or trade meanings are used herein in accordance with such recognized meanings.

2.06. Interpretations by Architect. 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 and in accordance with any schedule agreed upon. Contractor shall make written request to the Architect for such interpretations. Such interpretations shall be consistent with, and reasonably inferable from the contract documents, and may be made by field orders issued pursuant to Article 15.

2.07. Conflicts among contract documents - priorities. If there is any conflict between any of the contract documents, the conflict shall be resolved by giving effect to the provisions in the documents having higher priority and by disregarding conflicting provisions in documents having lower priority, as follows: first priority, any modifications, with the most recent having priority over earlier modifications; second priority, the Agreement; third priority, any addenda, with the most recent having priority over earlier addenda; fourth priority, the Special Conditions; and fifth priority, the General Conditions.

2.08. Conflicts and interpretation problems involving plans, specifications, or working details. If a conflict or other problem of interpretation involves plans, specifications, or working details, the problem shall be resolved as follows: Dimensions take precedence over scale at all times.

Figured dimensions on plans shall govern, but work not dimensioned shall be as directed. Work not particularly shown or specified shall be the same as similar parts that are shown or specified. Large-scale details shall take precedence over smaller-scale details as to shape and details of construction. Specifications shall govern as to materials, workmanship, and installation procedures. Plans, specifications, and working details are intended to be fully cooperative and to agree. However, if Contractor observes that plans, specifications, and/or working details are in conflict, he shall promptly notify the Architect with a copy to the Director of Public Works/Designee in writing and any necessary changes shall be adjusted as provided elsewhere in the contract documents for changes in work. The Architect shall resolve all conflicts involving plans, specifications, or working details wherever the foregoing principles do not apply, or where, if applied, they lead to results that appear unreasonable.

ARTICLE 3. CONTRACT DOCUMENTS.

3.01. Contract Documents. The contract documents consist of all component parts of the contract as specified in the Agreement, including the Notice to Contractors, Information for Bidders, Bid as accepted, List of Subcontractors, Non-Collusion Affidavit, Contractor's Certificate as to Workers' Compensation, Affidavit Concerning Employment of Undocumented Aliens, Contractor's Certification of Good-Faith Effort to Hire Monterey Bay Area Residents, Bid Bond or Bidder's Security, Agreement, Performance Bond, Payment Bond for Public Works, Insurance Certificate, General Conditions and Special Conditions of Bid No. 10410, Project Manual, Specifications, Plans, Working Details, all addenda issued prior to execution of the contract, and all modifications.

3.02. Contract. The contract documents form the contract. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the bidding documents. The contract may be amended or modified only by a modification as defined in paragraph 3.03.

3.03. Modification. 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 or (4) a written order for a minor change in the work issued by the Architect pursuant to Article 15. A modification may be made only after execution of the contract.

3.04. Execution in quadruplicate. Unless otherwise specified in the Agreement, the contract documents shall be signed in not less than quadruplicate by the County and Contractor.

3.05. Familiarity with site and local conditions. Prior to submitting a bid, and prior to executing this contract, the Contractor shall visit the work site, familiarize himself with the local conditions under which the work is to be performed, and correlate his observations with the requirements of this contract. By executing the contract, the Contractor represents that he has done so. Based on such visits and investigations, Contractor shall notify the County in writing of any discrepancies between the local conditions and the requirements of the contract. Contractor's failure to notify County prior to submitting its bid shall be deemed an acknowledgment of and acceptance of any such discrepancies, and a waiver of any claims for extra work, which may result therefrom.

3.06. Contract documents furnished to Contractor. Unless otherwise provided in the contract documents, the Contractor will be furnished, one full size set and one half-size set of all the

contract documents, including the plans, specifications, and working details to facilitate the execution of the work. Additional copies of the contract documents may be obtained at cost of reproduction.

3.07. Ownership of documents. All plans, specifications, working details, and copies thereof furnished by the Architect are and shall remain the property of the County. Such documents shall not be used on any other project and shall be returned to the County on request at the completion of the work.

3.08. Organization of contract documents not controlling. The organization of the specifications into divisions, sections, and articles, and the arrangement of the plans or working details shall not control the Contractor in dividing the work among subcontractors or in establishing the extent of work to be performed by any trade.

3.09. Contract documents on-site. Contractor will at all times maintain at least one complete, up-to-date set of the contract documents, showing approval by the State Fire Marshal (including the original documents as well as all change orders and other supplemental and additional documents) on the site, to be available to the County, Architect, and their representatives.

ARTICLE 4. SUBCONTRACTORS.

4.01. No contractual relationship between County and subcontractors. Nothing contained in the contract documents shall create any contractual relation between the County or Architect and any subcontractor.

4.02. Work performed by subcontractors; substitutions. Subcontracted work shall be performed only by the subcontractors identified in Contractor's bid documents, as provided by Public Contract Code sections 4100, et seq. Substitution of subcontractors may be made only in conformity with the Subletting and Subcontracting Fair Practices Act, Public Contract Code sections 4100, et seq.

4.03. Contracts with subcontractors. All work performed for the Contractor by a subcontractor shall be pursuant to a written agreement between the Contractor and the subcontractor (and where appropriate, between subcontractors and sub-subcontractors). All such agreements shall require performance by the subcontractors in conformity with the terms of this contract, and shall include all the terms of this contract, which are applicable to subcontractors.

4.04. Payments to subcontractors.

(a) The Contractor shall pay each subcontractor, upon receipt of payment from the County, any amount equal to the percentage of completion allowed to the Contractor on account of such subcontractor's work, less the percentage retained from payments to the Contractor. The Contractor shall also require each subcontractor to make similar payments to his subcontractors. County shall have the right, but not the obligation, to issue payment by joint checks payable to the order of Contractor and any of its subcontractors.

(b) If the Project Manager fails to issue a certificate for payment for any cause which is the fault of the Contractor and not the fault of a particular subcontractor, the Contractor shall pay the subcontractor on demand, made at any time after the certificate for payment should otherwise

have been issued, for his work to the extent completed, less the retained percentage.

(c) Neither the County nor the Project Manager shall have any obligation to pay or to see to the payment of any monies to any subcontractor except as may otherwise be required by law. All monies paid to Contractor hereunder shall immediately become and constitute a trust fund and shall be applied by Contractor for the benefit of all persons supplying labor, materials, or equipment in connection with the work and shall not be diverted to any other purpose until the claims of such persons have been discharged.

4.05. Information provided to subcontractors. The County's Project Manager and the Architect may, on request, and at their discretion, furnish to any subcontractor, if practicable, information regarding percentages of completion certified to the Contractor on account of work done by such subcontractors.

4.06. Contractor's responsibility for work of subcontractors. Contractor shall be as fully responsible to County for the acts and omissions of any subcontractor and of persons either directly or indirectly employed by the subcontractors, as he is for acts and omissions of persons directly employed by him.

PART II. CONDUCT OF WORK.

ARTICLE 5. CONTRACT ADMINISTRATION BY ARCHITECT.

5.01. No contractual relationship between Architect, Project Manager, and Contractor. Nothing contained in the contract documents shall create any contractual relationship between the Architect, Project Manager, and the Contractor or any subcontractor.

5.02. County's representative. The Project Manager will be the County's representative during construction and until final payment as provided in this Agreement. The Project Manager will have authority to act on behalf of the County to the extent provided in the contract documents, unless otherwise modified by written instrument which will be shown to the Contractor. The Project Manager will advise and consult with the County, and all of the County's instructions to the Contractor shall be issued through the Project Manager. As the County's representative, the Project Manager will provide general administration of the contract, including performance of the functions hereinafter described. In addition, the Project Manager will be the County's Representative for management of construction in the field. The Project Manager is responsible for managing the project schedule, budget, and has the authority to act on behalf of the County as relating to the management of these items.

5.03. Instructions issued through Project Manager. The County shall issue instructions to the Contractor through the Project Manager, provided that the County shall have the right, but not the obligation, to itself or through other project representatives issue change orders, require additional work and/or direct the omission of work previously ordered by written instructions directly to Contractor, provided such project representative and instructions have been prior approved in writing by the County.

5.04. Project Manager's and Architect's access to work. The Project Manager and Architect shall at all times have access to the work wherever it is in preparation and progress. The

Contractor shall provide facilities for such access so the Project Manager and Architect may perform their functions under the contract.

5.05. Inspections. The Architect will make periodic visits to the site to familiarize themselves generally with the progress and quality of the work and to determine, in general, if the work is proceeding in accordance with the contract documents. On the basis of their on-site observations, they will keep the County informed of the progress of the work, and will endeavor to guard the County against defects and deficiencies in the work of the Contractor. The Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work. They will not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, and they will not be responsible for the Contractor's failure to carry out the work in accordance with the contract documents, except to the extent such failure is due to Architect's breach of agreement with the County or is otherwise due to the negligence or willful misconduct of Architect.

5.06. Determination of payments to Contractor. Based on such observations and the Contractor's applications for payment, the Architect and Project Manager will determine the amounts owing to the Contractor and will issue certificates for payment in such amounts, as provided in Articles 18-21.

5.07. Decisions on artistic effect. The Architect's decisions in matters relating to artistic effect will be final if consistent with the intent of the contract documents.

5.08. Authority to reject work or to require special inspection or testing. The Project Manager and Architect may reject work, which does not conform to the contract documents. Whenever, in their reasonable opinion, they consider it necessary or advisable to ensure the proper implementation of this contract, they may require special inspection or testing of the work in accordance with Article 11, whether or not such work is then fabricated, installed, or completed. However, the Project Manager's authority to act under this paragraph, nor any decision made by them in good faith either to exercise or not to exercise such authority, shall not give rise to any duty or responsibility of the Project Manager to the Contractor, any subcontractor, any of their agents or employees, or any other person performing any of the work.

5.09. Review of shop drawings and samples. The Architect will review shop drawings and samples as provided in Article 9.

5.10. Change orders prepared by Project Manager. The Project Manager will prepare change orders and may order minor changes in the work in accordance with Article 15.

5.11. Inspections and document review. The Project Manager will: conduct inspections of the work (including a final inspection); receive and review written guarantees and related documents required by the contract and assembled by the Contractor; and issue a final certificate for payment.

5.12. Termination of Architect's employment; substitution of new Architect. In case of the termination of the employment of the Architect, the County shall appoint an Architect to replace the former Architect, who shall insofar as Contractor is concerned, succeed and be entitled to all

the rights and benefits of the prior Architect.

ARTICLE 6. SERVICES PROVIDED BY COUNTY.

6.01. Easements obtained by County. The County shall secure and pay for all easements, rights-of-way, and fee interests in land necessary to enable Contractor to complete the work.

6.02. Surveys provided by County. The County shall furnish all surveys describing the existing physical characteristics, legal limits, and utility locations for the site of the project. Unless specifically provided for in the plans and specifications, the County shall not provide field engineering or construction staking.

6.03. Information and services provided by County. Information or services under the County's control shall be furnished by the County with reasonable promptness to avoid delay in the orderly progress of the work.

ARTICLE 7. CONTRACTOR'S ADMINISTRATIVE DUTIES.

7.01. Review of contract documents for errors. The Contractor shall carefully study and compare the contract documents and shall, at once, report in writing to the Architect, with a copy to the Project Manager, any error, inconsistency, or omission he may discover. The Contractor shall not be liable to the County or the Architect for any damage resulting from any such errors, inconsistencies, or omissions in the contract document which were reported, in writing, by Contractor to the Architect, with a copy of the correspondence to the Project Manager; provided no provisions herein shall relieve the Contractor from liability for errors, inconsistencies, or omissions which were known or reasonably should have been known to Contractor, which were not disclosed in writing to the Architect, with a copy of the correspondence to the Project Manager.

7.02. Taxes. Contractor shall pay all sales, consumer, use, and other similar taxes required by law.

7.03. Transportation and utility service. Contractor shall pay for all transportation and utility service not later than the 20th day of the calendar month following that in which such services are rendered.

7.04. Materials and equipment. Contractor shall pay for all materials, tools, and other expendable equipment to the extent of 90 percent of the cost thereof, not later than the 20th day of the calendar month following that in which such materials, tools, and equipment are delivered at the project site and the balance thereof not later than the 30th day following completion of that part of the work in or on which such materials, tools, and equipment are incorporated or used.

7.05. Contractor's superintendent. The Contractor shall employ a competent, qualified superintendent who shall provide full time, on-site supervision of all aspects of the work. Full time means any and all times that contractor, its agents, employees, or subcontractors are performing any and all work. The superintendent shall be satisfactory to the County, and shall not be changed except with the consent of the County. The County may request at any time that a Contractor remove its superintendent from the project and provide an alternate superintendent

as approved by the County. 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 will be confirmed in writing. Other communications will be so confirmed on written request in each case.

7.05.01 Contractor's project manager. **Due to the scope of this project, the Contractor, with County's consent, may assume the role of Project Manager.** The Contractor shall employ a competent, qualified project manager to manage the entire project and the superintendent. The Contractor shall provide the County's representative with the project manager's resume. The County's Project Manager and the Architect must approve the project manager. The County reserves the right to interview the project manager at any time. The County at any time during the course of construction may require the Contractor to substitute the project manager based on poor performance, lack of experience, product knowledge, project management skills, or the ability to prosecute the work in a workmanlike manner.

7.06. Contractor's responsibility for agents and employees. The Contractor shall be responsible to the County for the acts and omissions of all his employees and all subcontractors, their agents, and employees, and all other persons performing any of the work under a contract with the Contractor.

7.07. Communication through Project Manager. The Contractor shall forward all communications to the County through the Project Manager.

ARTICLE 8. GENERAL PROVISIONS REGARDING CONDUCT OF WORK.

8.01. No work without construction documents. The Contractor shall do no work without current plans, specifications, working details, etc.

8.02. Supervision and construction procedures. The Contractor shall supervise and direct the work, using his 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.

8.03. Contractor's responsibility for labor, materials, and equipment. Unless otherwise specifically noted, the Contractor shall provide and pay for all labor, materials, equipment, and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.

8.04. Conduct and skill of employees. The Contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the task assigned to him. Any person in the employ of the Contractor whom the County may deem incompetent or unfit shall be dismissed from the work and shall not again be employed on it except with the written consent of the County.

8.05. Progress schedule. The Contractor, immediately after being awarded the contract, shall prepare and submit for the Project Manager's approval, an estimated progress schedule for the work. The progress schedule shall be related to the entire project to the extent required by the contract documents. This schedule shall indicate the dates for the starting and completion of the

various stages of construction and shall be revised weekly, subject to the Architect's approval.

8.06. Plans and specifications at site. The Contractor shall maintain at the site for the County one copy of all approved shop drawings, plans, specifications, working details, addenda, change orders, and other modifications, in good order and marked to record all changes made during construction. These shall be available to the Project Manager. A reproducible set of plans and working details, marked to record all changes made during construction, shall be delivered to the Project Manager for the County upon completion of the work and prior to release of final payment.

8.07. Dimensions to be checked. All dimensions shall be carefully checked by the various artisans. Each Contractor shall be held responsible for the accuracy of the dimensions of its own work. Dimensions shown on plans shall be adhered to insofar as it is possible, and no deviation from such dimensions shall be made except with the consent of the Architect. Where the work of one Contractor comes in contact with the work of another Contractor, each Contractor shall carefully check all dimensions which affect its own work. Wherever possible, dimensions shall be taken at the building, but no work shall be delayed or held up waiting for building dimensions, when by the exercise of foresight and proper cooperation, the dimensions may be established in advance of construction. The Contractor shall verify all dimensions at the site and shall be solely responsible for same or deviations from same.

8.08. Cutting and patching. The Contractor shall be responsible for any cutting, fitting, and patching that may be required to complete his work, except as otherwise specifically provided in the contract documents. The Contractor shall not endanger any work of any other contractors by cutting, excavating, or otherwise altering any work and shall not cut or alter the work of any other contractor except with the written consent of the Project Manager.

8.09. Revision of operations. When, in the judgment of the County, it becomes necessary to accelerate the work, the Contractor when so ordered shall concentrate his forces at such points as directed and execute such portions of the work as may be required.

8.10. Damage to work and property on-site. All damage or loss to any property on or near the site caused in whole or in part by the Contractor, any subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable, shall be remedied by the Contractor, at his expense, except damage or loss attributable to faulty specifications or working details, or to the acts or omissions of the County or Architect or anyone employed by either of them or for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor.

ARTICLE 9. SHOP DRAWINGS AND SAMPLES.

9.01. Submittal of shop drawings and samples. The Contractor shall review, stamp with his approval, and submit, with reasonable promptness and in orderly sequence so as to cause no delay in the work or in the work of any other contractor, all shop drawings and samples required by the contract documents or subsequently by the Architect as covered by modifications. Shop drawings and samples shall be properly identified as specified, or as the Architect may require. At the time of submission, the Contractor shall inform the Architect in writing of any deviation in the shop drawings or samples from the requirements of the contract documents.

9.02. Warranties concerning shop drawings and samples. By approving and submitting shop

drawings and samples, the Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, catalog numbers, and similar data, or will do so, and that he has checked and coordinated each Shop Drawing and Sample with the requirements of the work and of the contract documents.

9.03. Architect's review and approval. The Architect will review and approve shop drawings and samples with reasonable promptness so as to cause no delay, but only for conformance with the design concept of the project and with the information given in the contract documents. The Architect's approval of a separate item shall not indicate approval of an assembly in which the item functions.

9.04. Corrections. The Contractor shall make any corrections required by the Architect and shall resubmit the required number of corrected copies of shop drawings or new samples until approved. The Contractor shall direct specific attention in writing or on resubmitted shop drawings to revisions other than the corrections requested by the Architect on previous submissions.

9.05. Contractor's responsibility. The Architect's approval of shop drawings or samples shall not relieve the Contractor of responsibility for any deviation at the time of submission, nor shall the Architect's approval relieve the Contractor from responsibility for errors or omission in the shop drawings or samples.

9.06. Completion of work in accordance with shop drawings and samples. No portion of the work requiring a Shop Drawing or Sample submission shall be commenced until the Architect has approved the submission. All such portions of the work shall be in accordance with approved shop drawings and samples.

ARTICLE 10. SEPARATE CONTRACTS ON SAME PROJECT.

10.01. County's right to award separate contracts. The County reserves the right to award other contracts in connection with other portions of the project.

10.02. Coordination among contractors. Contractor shall ascertain to his own satisfaction the scope of the project and the nature of any other contracts that have been or may be awarded by County in prosecution of the project, to the end that Contractor may perform this contract in light of such other contracts, if any. Nothing herein shall be interpreted as granting to Contractor exclusive occupancy at the site. Contractor shall not cause any unnecessary hindrance or delay to any other contractor working on the project. If simultaneous execution of any contract for the project is likely to cause interference with the performance of some other contract or contracts, the County shall decide which contractor shall cease work temporarily and which contractor shall continue or whether work can be coordinated so that contractors may proceed simultaneously. County shall not be responsible for any damages suffered or extra costs incurred by Contractor resulting directly or indirectly from the award or performance or attempted performance of any other contract or contracts on the project, or caused by any decision or omission of County respecting the order of precedence in performance of the contracts. Any delay in the progress of the work as a result of such priorities shall not give rise to any adjustments in the Contract Price and Contractor agrees that its sole right and remedy therefore shall be an extension of time.

10.03. Responsibility to other contractors. The Contractor shall afford other contractors on the same project reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work, and shall properly connect and coordinate his work with theirs.

10.04. Duty to inspect other contractor's work. If any part of the Contractor's work depends for proper execution or results upon the work of any other separate contractor, the Contractor shall inspect and promptly report to the Project Manager any apparent discrepancies or defects in such work that render it unsuitable for such proper execution and results. Failure of the Contractor so to inspect and report shall constitute an acceptance of the other contractor's work as fit and proper to receive his work, except as to defects which may develop in the other separate contractor's work after the execution of the Contractor's work. Any work exhibiting unacceptable quality as defined by the contract documents will result in Contractor's payment (or a portion thereof) being withheld until the unacceptable work is corrected to meet the required quality standards, per Article 19 herein.

10.05. Damage to other contractor's work. Should the Contractor cause damage to the work or property of any separate contractor on the project, the Contractor shall, upon due notice settle with such other contractor by agreement or arbitration, if he will so settle. If such separate contractor sues the County or initiates an arbitration proceeding on account of any damage alleged to have been so sustained, the County shall notify the Contractor who shall defend such proceedings and indemnify and hold harmless County.

10.06. Responsibility for costs caused by one contractor to another. Any costs to one contractor or his subcontractors on the project caused by defective or ill-timed work by another contractor or his sub-contractors on the project shall be borne by the party responsible for such defective or ill-timed work.

10.07. County's right to settle disputes over cleanup. If a dispute arises between the separate contractors as to their responsibility for cleaning up under paragraph 13.05, the County may clean up and charge the cost thereof to the several contractors, as the County shall determine to be just.

ARTICLE 11. TESTS.

11.01. Contractor's responsibility for required tests. If the contract documents, laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction require any work to be inspected, tested, or approved, the Contractor shall give the Project Manager timely notice of its readiness and of the date arranged so the Project Manager may observe such inspection, testing, or approval. The County shall bear all costs of such inspections, tests, and approval, unless otherwise provided.

11.02. Responsibility for tests not anticipated in contract. If after the commencement of the work, the Project Manager determines that any work requires special inspection, testing, or approval which paragraph 11.01 does not include, he will, upon written authorization from the County, instruct the Contractor to order such special inspection, testing, or approval, and the Contractor shall give notice as in paragraph 11.01. If such special inspection or testing reveals a failure of the work to comply (1) with the requirements of the contract documents or (2) with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction, then the

Contractor shall bear all costs thereof, including the Project Manager's additional services made necessary by such failure; otherwise the County shall bear such costs, and an appropriate change order shall be issued.

11.03. Certificates of inspection. Required certificates of inspection, testing, or approval shall be secured by the Contractor and promptly delivered by him to the Project Manager.

11.04. Observation by Project Manager. If the Project Manager wishes to observe the inspections, tests, or approvals required by this Article 11, he will do so promptly and, where practicable, at the source of supply.

11.05. No waiver of Contractor's responsibility. Neither the observations of the Project Manager in their administration of the construction contract, nor inspections, tests, or approvals by persons other than the Contractor shall relieve the Contractor from his obligations to perform the work in accordance with the contract documents.

ARTICLE 12. TIME FOR PERFORMANCE AND LIQUIDATED DAMAGES.

12.01. Time is of the essence. All time limits stated in the contract documents are of the essence of the contract.

12.02. Commencement and completion of work. Contractor shall commence the work on the starting date established in the Notice to Proceed and shall complete the work thereafter within the time limit established in the Project Schedule as defined in Special Conditions, Section 1. If there is no Notice to Proceed, Contractor shall commence the work on the starting date established in the Special Conditions and shall complete the work thereafter within the time limit established in the Special Conditions. If there is no Notice to Proceed and if the Special Conditions do not establish a starting or completion date, Contractor shall commence the work promptly after the Agreement is executed by all parties and shall prosecute the work regularly and diligently so as to complete the work within a reasonable time thereafter.

12.03. Prosecution of work. Contractor shall prosecute the work diligently and expeditiously with adequate forces and shall complete it within the time specified in the contract documents.

12.04. Date of final completion. When the Contractor believes that his work is completed, he shall request that the Architect and the County inspect the work and certify its completion. The Architect and the County will respond promptly to such a request. The date of final completion of the work or any designated portion thereof is the date on which, after the Architect and the County certifies that construction has been completed in accordance with the contract documents, the County Board of Supervisors accepts the work.

12.05. Grounds for extension of time. The time for completion of the work shall be extended by change order for such reasonable time as the Architect or County may determine, if an extension of time is reasonably necessary due to a delay caused to the Contractor by any of the following circumstances:

(a) Sole act or sole negligence of the County, the Architect, any employee of either, or any separate contractor employed by the County;

(b) Any change ordered in the work, which change is requested by County or Architect or which is not due to the act or negligence of Contractor.

(c) Any labor disputes, fire, unusual delay in transportation, unavoidable casualties, or causes beyond the Contractor's control and which Contractor could not reasonably have foreseen or made reasonable provisions for, and which are not caused by or the continuance of which is not due to, any act or failure to act on behalf of Contractor; or

(d) Any other cause which the Architect or Project Manager determines may justify the delay.

12.06. Extensions of time due to failure to furnish interpretation. No extension of time shall be allowed for delay caused by the Project Manager's failure to promptly provide an interpretation of the contract, except in the following circumstances:

(a) The Project Manager failed to provide the interpretation for over fifteen days after demand was made for such interpretation, and it would be reasonable to extend time due to such failure; or

(b) The parties have agreed upon a schedule for the provision of interpretations, the Project Manager failed to comply with that schedule, and it would be reasonable to extend time due to such failure.

12.07. Claims for extension of time. Notwithstanding the provisions of Section 12.05 and 12.06 above, none of the causes of delay described therein shall be deemed a valid excuse for Contractor's failure to start, perform, or complete the work, or any portion thereof, on time unless Contractor has notified the Project Manager, in writing, of the alleged cause of delay within ten (10) days after commencement of the cause of the delay. Should the Architect and the County disagree with Contractor that the alleged delay warrants an extension of time for the performance of any act required hereunder, the Contractor shall notify the County, in writing, as provided in Article 30; provided that the Contractor shall proceed with the work during the period that the Architect and Contractor seek to resolve the matter.

12.08. Liquidated damages. THE PARTIES AGREE THAT IN CASE ALL THE WORK CALLED FOR UNDER THE CONTRACT IN ALL PARTS AND REQUIREMENTS IS NOT COMPLETED WITHIN THE TIME SPECIFIED IN THE CONTRACT DOCUMENTS, DAMAGE WILL BE SUSTAINED BY THE COUNTY, AND THAT IT IS AND WILL BE IMPRACTICABLE AND EXTREMELY DIFFICULT TO DETERMINE THE ACTUAL DAMAGE WHICH THE COUNTY WILL THEREBY SUSTAIN. THE PARTIES THEREFORE AGREE THAT THE CONTRACTOR WILL PAY TO THE COUNTY THE SUM SET FORTH IN THE SPECIAL CONDITIONS, IF ANY, FOR EACH CALENDAR DAY OF DELAY UNTIL THE WORK IS COMPLETED AND ACCEPTED. CONTRACTOR AND HIS SURETY SHALL BE LIABLE FOR THE TOTAL AMOUNT THEREOF. THE CONTRACTOR AGREES TO PAY SAID LIQUIDATED DAMAGES ESTABLISHED HEREIN, AND FURTHER AGREES THAT THE COUNTY MAY DEDUCT THE AMOUNT THEREOF FROM ANY MONIES DUE OR THAT MAY BECOME DUE THE CONTRACTOR UNDER THE CONTRACT.

12.09. Removal or relocation of main or trunk line utility facilities. The Contractor shall not be assessed for liquidated damages for delay in completion of the project, when such delay was caused by the failure of the County or a utility company to provide for removal or relocation of existing main or trunk line utility facilities; however, when the Contractor is aware that removal or relocation of an existing utility has not been arranged, Contractor shall promptly notify the County and the utility company in writing, so that provision for such removal or relocation may be made to avoid and minimize any delay which might be caused by the failure to remove or relocate the main or trunk line utility facilities, or to provide for their removal or relocation. In accordance with Government Code section 4215, if the Contractor while performing the contract discovers any existing main or trunk line utility facilities not identified by the County in the contract plans or specifications, he shall immediately notify the Project Manager and utility in writing. The utility, where it is the owner of the facilities, shall have the sole discretion to perform repairs or relocation work or permit the Contractor to do such repairs or relocation work at a reasonable price. The Contractor shall be compensated for the costs of locating, repairing damage not due to the failure of the Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the plans and specifications with reasonable accuracy and for equipment on the project necessarily idled during such work. Such compensation shall be in accordance with the extra work provisions set forth elsewhere in the contract documents. Conversely, Contractor shall not be compensated for the costs of locating, repairing damage and removing or relocating such utility facilities which is due to the failure of the Contractor to exercise reasonable care. In such an event, Contractor shall not be credited for nor given an extension of time for equipment on the project necessarily idled during such work necessitated by Contractor's failure to exercise reasonable care.

ARTICLE 13. USE OF SITE.

13.01. Limit of operations. The Contractor shall confine his apparatus, the storage of materials, and the operations of his workers to limits indicated on the plans, or by law, ordinances, permits, or directions of the Project Manager and shall not unreasonably occupy the premises with his materials. Insofar as possible, the Contractor shall arrange his work and its progress to prevent any interference with the operations of the existing facilities. All utilities must be protected and connections made to utilities so as not to interrupt service.

13.02. Utilities. Unless otherwise noted, all utilities, including, but not limited to, electricity, water, gas, and telephone, used on the work shall be furnished and paid for by Contractor. Contractor shall furnish and install temporary distribution systems, including meters, if necessary, from distribution points to points on-site where utility is necessary to carry on the work. Upon completion of the work, Contractor shall remove all temporary distribution systems. If this contract is for an addition to an existing facility, Contractor may, with the written permission of the County, use County's existing utilities by making prearranged payments to County for utilities used by Contractor for construction.

13.03. Metering devices. For the purpose of providing utility service to the project, Contractor may install or cause to be installed metering devices or other equipment of utility companies or of political subdivisions, title to which is commonly retained by the utility company or political subdivision. If any such metering device or equipment is installed, contractor shall advise County as to the owner of such device or equipment.

13.04. Sanitary facilities. Contractor shall provide sanitary toilet facilities for the use of all workers and subcontractors. The building shall be properly stocked and maintained in a sanitary condition at all times and shall be left at the site until removal is directed by the Project Manager. Use of the toilet facilities in the Work under construction shall not be permitted.

13.05. Field Office. **THIS REQUIREMENT IS DELETED FOR PROJECT 8785.** Contractor shall provide for the exclusive use of Architect and Project Manager a temporary, private office of not less than 150 square feet of floor area to be located as directed by the County's Project Manager and to be maintained until removal is authorized by the County. The office shall be of substantial waterproof construction with adequate natural light and ventilation by means of stock-design windows. The door shall have a key-type lock or padlock hasp. A table satisfactory for study of plans and two chairs shall be provided by Contractor. Contractor shall provide and pay for adequate lights, heat, and air conditioning for the field office until authorized removal.

13.06. Telephone and Internet Access. **THIS REQUIREMENT IS DELETED FOR PROJECT 8785.** Contractor shall install a working telephone and provide internet access in the Architect and Project Manager's office and shall maintain the same until the final completion of the contract and the acceptance of work. Architect and Project Manager shall have free, unrestricted use of this telephone and internet access for purposes connected with the Work. The cost of the installation and all charges for the use of the telephone and internet access shall be paid by the Contractor.

13.07. Cleaning up during and after work. The Contractor, at all times, shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work, he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials. If the Contractor fails to clean up, the County may do so and the cost thereof shall be charged to the Contractor as provided in paragraph 31.02.

ARTICLE 14. MATERIALS.

14.01. Materials provided by Contractor. Except as otherwise expressly stated in this contract, Contractor shall provide and pay for all materials, labor, tools, equipment, water, lights, power, transportation, superintendence, temporary constructions of every nature, and all other services and facilities of every nature whatsoever necessary to execute and complete this contract within the specified time.

14.02. Quality of materials. Unless otherwise specified, all materials shall be new and both workmanship and materials shall be of good quality.

14.03. Provision and storage of materials. Materials shall be furnished in ample quantities and at such times as to ensure uninterrupted progress of work and shall be stored properly and protected as required. Contractor shall be entirely responsible for damage or loss by weather or other causes to materials or work under this contract. All stored items shall be inventoried, specified by identification numbers (if applicable), released to County by sureties of the Contractor, and, if stored offsite, stored only in a reputable bonded warehouse.

14.04. Substitution of materials. Whenever in the specifications any materials, process, or article is indicated or specified by grade, patent, or proprietary name or by the name of the manufacturer, such specification shall be deemed to be used for the purpose of facilitating the description of the material, process, or article desired and shall be deemed to be followed by the words "or equal," and Contractor may, unless otherwise stated, offer any material, process, or article which shall in every respect be substantially equal to or better than that specified. The burden of proof as to equality of any material, process, or article shall rest with Contractor. Contractor shall submit any request for substitution, together with any substantiating data, within (35) thirty-five days after the award of this contract. These provisions authorizing submission of "or equal" justification data shall not in any way authorize an extension of time for performance of this contract. In the event Contractor-furnished material, processes, or articles that are more expensive than those specified, the difference in cost so furnished shall be borne by Contractor. Requests for substitution of products, materials, or processes other than those specified must be accompanied by evidence whether or not the proposed substitution: (1) is equal in quality and serviceability to the specified item; (2) will entail changes in detail and construction of related work; (3) will be acceptable in consideration of the required design and artistic effect; (4) will not provide a cost disadvantage to Architect or County. Contractor shall promptly provide, upon request, any other information that may be required of it to assist Architect and County in determining whether the proposed substitution is acceptable. The final decision shall be that of the Architect and the County. County's and Architect's approval shall be in writing, shall follow the procedure for change orders, and shall be required for the use of a proposed substitute material. County may condition its approval of the substitution upon delivery to County of an extended warranty or other assurances of adequate performance of the substitution.

ARTICLE 15. CHANGES IN THE WORK.

15.01. Change orders. The County, 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 sum and the time for performance of the work shall be adjusted accordingly. All such changes in the work shall be authorized by change order, and shall be executed under the applicable conditions of the contract documents. The contract sum and the time for performance of the work may be changed only by change order.

The amount to be paid to the Contractor pursuant to the Contract Documents shall, where applicable, be increased or decreased in the manner hereinafter set forth; provided however, that if the Contractor should proceed with a Change in the Work upon an oral order, by whomsoever given, it shall constitute a waiver by the Contractor of any claim for an increase in the Contract Sum on account thereof. Upon receipt of said written Change Order or Written Directive, the Contractor shall promptly proceed with the Change in the Work, even though the amount of any resultant increase or decrease in the contract sum has not yet been determined. All Changes in the Work shall be performed in accordance with the Contract Documents.

15.02. Method to calculate adjustments in contract price. Determination of the method to be used to calculate adjustments in the Contract Price shall be at the sole discretion of the County. The use by the Contractor of the Total Cost Method (calculating the total sum of expenses incurred on the project, less amounts paid, marked up by overhead and profit) of pricing changes and claims is expressly prohibited (provided however, the County may use a "make whole"

analysis to determine the reasonableness of the Contractor's claim). One of the following methods shall be used:

(a) Unit Price Method:

1. Whenever County or its representative authorizes Contractor to perform on a Unit Price basis, County's authorization shall clearly state the:
 - a. Scope of Work to be performed;
 - b. Applicable Unit Price; and
 - c. Not to exceed amount of reimbursement as established by the County.
2. The applicable unit price shall include reimbursement for all direct and indirect costs of the Work, including overhead and profit.
3. Contractor shall only be paid under this method for the actual quantity of materials incorporated in or removed from the Work and such quantities must be supported by field measurement statements verified by County.

(b) Firm Fixed Price Method:

1. The Contractor and County may mutually agree on a fixed amount as the total compensation for the performance of changed work.
2. Any adjustments to the Contract Price using the Firm Fixed Price Method shall include, when appropriate, all reasonable costs for labor, equipment, material, overhead and profit. Such overhead and profit shall be calculated in accordance with provision 15.04(b)(4)F.
3. Whenever the County authorizes Contractor to perform changed work on a Firm Fixed Price Method, the County's authorization shall clearly state:
 - a. Scope of Work to be performed
 - b. Total Fixed Price payment for performing such work

(c) Time and Materials Method:

1. Whenever the County authorizes the Contractor to perform Work on a Time and Material basis, County's authorization shall clearly state:
 - a. Scope of Work to be performed;
 - b. A not to exceed amount of reimbursement as established by the County.
2. Contractor shall:
 - a. Cooperate with County and assist in monitoring the Work being performed;
 - b. The Contractor's and subcontractors' labor hours, materials, and equipment charged to work under the Time and Materials Method shall be substantiated by detailed time cards or logs completed on a daily basis before the close of business each workday. The Contractor shall initial each time card and/or log at the close of each workday. Records of the Contractor and Subcontractors pertaining to work paid for on a Time and Materials method shall be maintained and available for inspection as requested by the County or its representatives;
 - c. Perform all work in accordance with this provision as efficiently as possible; and
 - d. Not exceed any cost limit(s) without County's prior written approval.
3. Contractor shall submit costs and any additional information requested by the County to support Contractor's requested price adjustment.

No change in the Contract Price shall be allowed to the extent (1) Contractor's changed cost of performance is due to the fault, acts, or omissions of Contractor, or anyone for whose acts or

omissions Contractor is responsible; (2) the change is concurrently caused by Contractor and County; or (3) the change is caused by an act of *Force Majeure*.

The County shall not be responsible for, and the Contractor shall not be entitled to, unallowable costs. Unallowable costs include, but are not limited to, (1) interest or attorney's fees of any type other than those mandated by California statutes, (2) claim preparation or filing costs, (3) the cost of preparing or reviewing Change Proposals or Requests for Change Orders, (4) lost profits, lost income or earnings, (5) rescheduling costs, (6) costs for idle equipment when such equipment is not at the Site, has not been employed in the Work and is not scheduled to be used at the Site, (7) lost earnings or interest on unpaid retention, (8) claims consulting costs, (9) the costs of corporate officers or staff visiting the Site or participating in meetings with the County, (10) any compensation due to the fluctuation of foreign currency conversions or exchange rates, (11) loss of other business, and (12) any other special, consequential, or incidental damages incurred by the Contractor or subcontractors.

15.03. Signatures on change orders. A change order shall be in writing and shall be signed by the County's Project Manager and the Architect. Alternatively, the change order may be signed by the Architect alone, provided he has written authority from the County for such procedure and that a copy of such written authority is furnished to the Contractor if he agrees to the adjustment in the contract sum or the contract time. Except as otherwise provided herein, the change order shall also be signed by the Contractor in order to be effective, indicating the Contractor's consent to the changes made.

15.04. Determining cost or credit for change order.

(a) The cost or credit to the County resulting from a Change in the work shall be determined in one or more of the following ways:

1. by mutual acceptance of a lump sum for work and materials properly itemized;
2. by unit prices stated in the contract documents or subsequently agreed upon; or
3. as provided in subsection B.

(b) All parties to the agreement shall observe the following procedures for all change proposals and shall require all subcontractors to follow the same procedures:

1. Each change proposal will carry a unique identifying number, such as C-001, A-001 or O-001 which identifies the originator, i.e. C = Contractor, A = Architect, O = Owner and a chronological serial number. All correspondence referring to that change order, no matter who originates the correspondence, shall refer to the same identifying number. Any change proposal without such number shall be returned to the originator.
2. The items of Work involved shall be identified by specific reference to drawing and detail number and specification section if possible.
3. The quantities of material or other Work involved will be identified along with the costs thereof. The items of Work shall be arrayed in a manner that is consistent with the Construction Specifications Institute (CSI) (48) forty-eight division uniform system for classifying construction activities used for the schedule of values for each project component.
4. The total cost of a change proposal shall be limited to the following elements of cost, overhead, and profit:
 - a. Labor - For all labor, including foreman supervision, but excluding general superintendents, as may be necessary, the Contractor shall be reimbursed for labor costs

as provided herein. The labor cost of a change in the work shall be calculated as the sum of the following.

- i. Wages of labor on the Contractor's payroll, including foreman, directly engaged in the Work; hourly rates for each classification of worker shall be identified;
 - ii. Engineering and drafting performed;
 - iii. Fringe benefits established by the governing trade organizations;
 - iv. Federal Insurance Contributions Act costs and Federal and State Unemployment Taxes;
 - v. Net actual premium change for Commercial Liability, Workers' Compensation, Property Damage, and any other forms of Insurance.
- b. Materials – The cost of materials resulting from a change in the Work shall be calculated in one or more of the following methods, at the County's election:
- i. Invoice Cost – The Contractor may be paid the actual invoice cost of materials including actual freight and express charges and applicable taxes less all available discounts, rebates, and back charges, notwithstanding the fact that they may not have been taken by the Contractor. This method shall be considered only to the extent the Contractor's invoice costs are reasonable and the Contractor provides copies of vendor invoices, freight and express bills, and other evidence of cost accounting and payment satisfactory to the County. As to materials furnished from the Contractor's stocks for which an invoice is not available, the Contractor shall furnish an affidavit certifying its actual cost of such materials and such other information as the County may reasonably require;
 - ii. Wholesale Price – The Contractor may be paid the lowest current wholesale price for which the materials are available in the quantities required, including customary costs of delivery and all applicable taxes less all available discounts, rebates, and back charges; or,
 - iii. County-Furnished Materials – The County reserves the right to furnish such materials as it deems advisable, and the Contractor shall have no Claim for costs, overhead, or profit on such materials.
- c. Equipment – The additional cost, if any, of machine-power tools and equipment usage shall be calculated in accordance with the following:
- i. Equipment Rates – The Contractor's own charge rates may be used if verified and approved by the County and based on the Contractor's actual ownership and operating cost experience. Rental rates contained in published rate guides may be used if their cost formulas and rate factors are identifiable, reflect the Contractor's historical acquisition cost, utilization and useful life, and do not include replacement cost, escalation contingency reserves, general and administrative expense, or profit. Rates shall be based on the Contractor's actual allowable costs incurred or the rates established according to the Rental Rate Blue Book for Construction Equipment, published by Machinery Information Division of PRIMEDIA, whichever is less. The Rental Rate Blue Book established rate shall be the monthly rate for the equipment plus the monthly rate for required attachments, divided by 176, plus the hourly operating cost, multiplied by the appropriate area adjustment factor if appropriate. The rates shall apply for actual equipment usage up to eight hours per day. For all hours in excess of eight hours per day or 176 hours per month, the established monthly rate shall be divided by 352, plus the

hourly operating cost, multiplied by the area adjustment factor, if appropriate.

ii. Transportation – If necessary equipment is not already at the Site and it is not anticipated that it would be required for the performance of other work under the terms of the Contract, the calculation shall include a reasonable amount for the costs of the necessary transportation of such equipment.

iii. Standby – The Contractor shall only be entitled to standby equipment costs if (a) the equipment is ready, able, and available to do the Work at a moment's notice; (b) Contractor is required to have equipment standby because of an event or condition solely caused by the County; and (c) the Contractor can demonstrate that it could have and intended to use the equipment on other projects or jobs. The Contractor shall be compensated at 50 percent (50%) of the adjusted hourly rate identified in the Rental Rate Blue Book for Construction Equipment, published by Machinery Information Division of K-111 Directory Corp. Standby shall not be paid during periods of Contractor-caused delay, concurrent delay, unusually severe weather conditions, during any seasonal shutdown, routine maintenance, downtime or occurrence specified in the Contract Documents. No payment shall be made for a 24-hour period. Standby costs shall not be paid for weekends, holidays, and any time the equipment was not intended to be used on the project as demonstrated by the Project Schedule.

d. Subcontractors' Cost – The Subcontractor's cost of Work shall be calculated and itemized in the same manner as prescribed herein for Contractor.

e. Bonds - Itemized statement of changes in costs of bonds.

f. Markup – The allowed markup for change order work shall not exceed the following two items:

i. 10 percent (10%) combined overhead and profit markup for the Contractor performing the actual change order work and,

ii. 5 percent (5%) combined overhead and profit markup on the direct costs for the Contractor's markup of subcontractor work. In no event shall the total combined overhead and profit markup for the Contractor and all intermediate tier subcontractors and suppliers exceed 15 percent (15%) of the direct cost to perform the Change Order Work. Direct costs shall include Labor (as defined in provision 15.04(b)(4)A, Materials (as defined in provision 15.04(b)(4)B, Equipment (as defined in provision 15.04(b)(4)C, Subcontractor Costs (as defined in provision 15.04(b)(4)D, Bond (as defined in provision 15.04(b)(4)E. All other costs shall be deemed overhead costs. Profit markup shall be allowed on delay, acceleration, unabsorbed overhead, or any other asserted impact costs.

g. Taxes - Taxes required to be paid by the Contractor, but not included above.

(c) Invoices or quotes shall accompany Change Proposals from vendors. Change proposals shall be sent to the Architect and Project Manager in duplicate, who shall maintain a database of all proposals which can readily determine the location and status of the change request. Change proposals shall include all cost backup, including breakdown of hours expended by jobsite personnel per task with or without overall execution of the work. Lump sum change proposals lacking necessary backup, as determined by County, will not be accepted or approved.

(d) All change proposals shall be checked by the Architect and Project Manager for accuracy and fairness. Should contractor utilize SMACNA or NECA cost-estimating standards, they will use 70 percent (70%) of the most favorable labor productivity rates.

(e) When the final costs are agreed upon by the County, the Contractor, and the Architect, a change order will be prepared by the County for signature by the County, Contractor, and Architect. The Change Order shall be the record document defining the costs and time extensions, if any, of the required and agreed-to change in the Work. A Change Order calculated in accordance with the provisions of this Agreement shall be full and complete compensation and final settlement of all changes and claims for all (a) time; (b) direct, indirect, and overhead costs; (c) profit; and (d) any and all costs or damages associated with delay, inconvenience, disruption of schedule, impact, ripple effect, loss of efficiency or productivity, acceleration of work, lost profits, and/or any other costs or damages related to any work either covered or affected by the changed work, or related to the events giving rise to the change.

(f) The Contractor shall keep and present, in the American Institute of Architects' format, an itemized accounting together with appropriate supporting data. Pending final determination of cost to the County, payments on account shall be made on the Contractor's certificate for payment. The amount of credit to be allowed by the Contractor to the County for any deletion or change which results in a net decrease in cost will be the amount of the actual net decrease as confirmed by the Architect and Project Manager. When both additions and credits are involved in any one change, the allowance for overhead and profit shall be figured on the basis of net increase, if any.

(g) If no agreement can be reached on changes in the work or costs, or the Contractor refuses to accept a Change Order, the County may issue the Change Order unilaterally. The Contractor shall comply with the requirements of the Change Order. The County shall provide for an equitable adjustment to the Contract Price and compensate Contractor accordingly. If the Contractor does not agree that the adjustment is equitable, it may submit a claim in accordance with Article 30. If Contractor refuses to comply with the Change Order, County may have the work done by another contractor or its own forces.

15.05. Changes requiring an increase in contract sum.

(a) If the County elects to have the Change in the Work performed on a lump sum basis, its election shall be based on a lump sum proposal which shall be submitted by the Contractor to the County within five (5) workdays of the County's request therefore, but the County's request for a lump sum proposal shall not be deemed an election by the County to have the Change in the Work performed on a lump-sum basis.

(b) If the County elects to have the Change in the work performed on a unit-cost basis, its election shall be based on a unit price proposal which shall be submitted by the Contractor to the County within five (5) workdays of the County's request therefore, but the County's request for a unit price proposal shall not be deemed an election by the County to have the Change in the work performed on a unit-price basis.

(c) If the County elects to have the Change in the work performed on a time and materials basis,

the same shall be performed, its election shall be based on a time and materials price proposal which shall be submitted by the Contractor within five (5) workdays of the County's request therefor, but the County's request for a time and materials price proposal shall not be deemed an election by the County to have the Change in the work performed on a time and materials basis.

(d) Nothing herein contained shall preclude the County from requesting a lump sum proposal, a unit price proposal, and a time and materials price proposal, or any two of those, with respect to the same Change in the Work, in which event, the Contractor shall submit all proposals requested.

(e) Until such time as the County makes its election under this paragraph, the Contractor shall submit daily time and material tickets to the County as required under subparagraph (c) and section 15.04(b), which shall be subject to authentication as therein provided. At such time as the County makes its election under this paragraph, an appropriate Change Order will be issued; provided however, that until such time, the County shall pay to the Contractor up to the County's reasonable estimated value of the Change in the Work.

(f) The Contractor's proposal shall be in compliance with sections 15.02, 15.03, and 15.04 of the General Conditions.

15.06. Changes requiring a decrease in contract sum. If the Change in the Work will result in a decrease in the contract sum, the County may request a quotation by the Contractor of the amount of such decrease for use in preparing a Change Order. The Contractor's quotation shall be forwarded to the County within five (5) days of the County's request and, if acceptable to the County, shall be incorporated in the Change Order. If not acceptable, the parties shall make every reasonable effort to agree as to the amount of such decrease, which may be based on a lump sum properly itemized, on unit prices stated in the Contract Documents and/or on such other basis as the parties may mutually determine. If the parties are unable to so agree, the amount of such decrease shall be the total of the estimated reduction in actual cost of the work, as determined by the County in its reasonable judgment, plus ten percent (10%) thereof as overhead and profit. The Contractor's proposal shall be in compliance with sections 15.02, 15.03, and 15.04 of the General Conditions.

15.07. Changes affecting contract time. If the Change in the Work will result in an extension or contraction of the contract time, and the parties are unable to agree as to the number of days by which the contract time will be extended or contracted, the County shall not be required to make its determination until the work has been completed, at which time its determination shall be based on a review of the Contractor's books and records relating to the time involved in performing the Change in the Work and on the County's judgment as to whether the Contractor diligently performed the same.

15.08. Disputes regarding changes. If any dispute should arise between the parties with respect to an increase or decrease in the Contract Sum or an expansion or contraction in the contract time as a result of a Change in the Work, the Contractor shall not suspend performance of a Change in the Work or the Work itself unless otherwise so ordered by the County in writing. The County shall, however, pay to the Contractor up to the County's reasonable estimate of the value of the Change in the Work, regardless of the dispute, if said Change in the Work results in an increase in the Contract Sum; and the County shall have the right to decrease the Contract Sum to the

County's reasonable estimated value of the Change in the Work, regardless of the dispute, if said Change in the Work results in a decrease in the contract sum.

15.09. Adjustment of unit prices. 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 create a hardship on the County or the Contractor, the applicable unit prices shall be equitably adjusted to prevent such hardship.

15.10. Concealed conditions. If concealed conditions encountered in the performance of the work below the surface of the ground are at variance with the conditions indicated by the contract documents, or if previously unknown physical conditions encountered below the surface of the ground are of an unusual nature, differing materially from those generally recognized as inherent in work of the character and in the location provided for in this contract, or should concealed or unknown conditions in an existing structure be at variance with the conditions indicated in the contract documents or be of an unusual nature, at variance with those ordinarily encountered and generally inherent in the work to be performed, then the contract sum shall be equitably adjusted by change order upon claim by either party made within twenty (20) days after first observing the conditions.

15.11. Claims for additional cost. All claims for additional compensation or for an increase in the contract sum shall be made as provided in Article 30. Any change in the contract sum resulting from such claim shall be authorized by change order.

15.12. Minor changes in the work. Subject to approval by the County, the Architect or Project Manager may order 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 may be made by field order or by other written order. Such changes shall be binding on the County and the Contractor.

15.13. Field orders. Subject to approval by the County, the Architect may issue written Field Orders, which interpret the contract documents or order minor changes in the work without change in contract sum or contract time. The Contractor shall carry out such Field Orders promptly.

15.14. Limitations. Except as expressly provided by this Section, there shall be no change whatsoever in the plans and specifications and in the work. Contractor shall not vary the work, the contract documents, or change, add to, or omit any element, component part, or portion of the work without the express written consent of County's Project Manger or the Architect contained in an executed change order or field order as herein provided. County shall not be liable for the cost for any extra work or any substitutions, changes, additions, omissions, or deviations from the plans and specifications unless the same have been authorized by and the cost thereof approved in writing by change order. No extension of time for performance of the work shall be allowed hereunder unless claim for such extension shall be made at the time changes in the work are ordered and such duly adjusted in writing by County and Architect. Contractor recognizes and acknowledges that timely completion of the work is paramount and that its duty is to proceed with the work in accordance with the contract documents, notwithstanding any request for change in the work, to the extent that proceeding is reasonable and feasible under the

circumstances.

15.15. Review of Contract Documents. The Contractor shall carefully study and compare the Contract Documents including, but not limited to, the Agreement, general conditions, drawings, specifications, addenda, and modifications, and shall at once report to the Architect and Project Manager any error, inconsistency, or omission it may discover. The Contractor shall not work without proper drawings and specifications or interpretations. If the Contractor performs any construction activity knowing it involves a recognized error, inconsistency or omission in the Contract Documents without such notice to the Architect and Project Manager, the Contractor shall assume appropriate responsibility for such performance and shall bear an appropriate amount of the costs attributable for correction.

15.16. Requests for Information. The Contractor shall review any Request for Information (RFI), or other Contractor or subcontractor-initiated request for information prior to submission to the Architect and Project Manager to ensure that the information requested in such RFI is not already provided in the Contract Documents. RFI submittals shall come only from the Contractor (not from any subcontractors). The Contractor shall prepare the RFI in an RFI form approved by the Architect, which shall include a detailed description of the conditions, cause, and/or reason for the request. The RFI shall also include a proposed resolution. Each RFI shall reference the applicable Construction Documents. A transmittal letter over a subcontractor's RFI does not constitute an approved form.

ARTICLE 16. UNCOVERING AND CORRECTION OF WORK.

16.01. Uncovering of work.

- (a) If any work is covered contrary to the request of the Architect, it must, at the request of the Project Manager, be uncovered for his observation and replaced at the Contractor's expense.
- (b) The Project Manager may ask to see any other work that has been covered prior to its inspection by the Project Manager, and the Contractor shall uncover the work. If such work is found to be in accordance with the contract documents, the cost of uncovering and replacement shall, by appropriate change order, be charged to the County. If such work is found not to be in accordance with the contract documents, the Contractor shall pay such costs unless it is found that a separate contractor caused this condition, and, in that event, the County shall be responsible for the payment of such costs.

16.02. Correction of work.

- (a) The Contractor shall promptly correct all work rejected by the Project Manager 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 cost of correcting such rejected work, including the cost of the Project Manager's additional services made necessary thereby.
- (b) All such defective or non-conforming work shall be removed from the site if necessary, and the work shall be corrected to comply with the contract documents without cost to the County.

(c) The Contractor shall bear the cost of making good all work of separate contractors destroyed or damaged by such removal or correction.

16.03. Contractor's failure to remove defective work. If the Contractor does not remove such defective or non-conforming work within a reasonable time fixed by written notice from the Project Manager, the County 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 County may upon ten (10) additional days' written notice sell such work at auction or a private sale and shall account for the net proceeds thereof, after deducting all the costs that should have been borne by the Contractor, including compensation for additional architectural services. 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 an appropriate change order shall be issued. Such change order shall not require the Contractor's consent to be effective. Said amount may be deducted from any payment thereafter due to the Contractor under this or any other contract with County. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the County.

16.04. Contractor's failure to correct defective work. If the Contractor fails to correct such defective or non-conforming work, the County may correct it in accordance with paragraph 31.02.

16.05. Acceptance of defective or non-conforming work. If the County prefers to accept defective or non-conforming work, it may do so instead of requiring its removal and correction, in which case a change order will be issued to reflect an appropriate reduction in the contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor. The issuance of the final certificate, final payment, or any provisions in the contract documents shall not relieve Contractor of responsibility for faulty materials, equipment, or workmanship. Contractor shall remedy any defects due to, and pay for any damage to, other work in accordance with the applicable guaranty or warranty provisions of the Contract Documents.

16.06. Emergency corrective action by County. If, in the opinion of the County, defective work creates a dangerous condition or requires immediate correction or attention to prevent further loss to the County or third parties or to prevent interruption of operations of the County or third parties, the County will attempt to give notice to Contractor. If Contractor cannot be contacted promptly or does not comply with the County's request for correction within a reasonable time as determined by the County, the County may, notwithstanding the provisions of this contract, proceed to make such correction or provide such attention, and the costs of such correction or attention shall be charged against the Contractor. Such action by the County shall not relieve Contractor of any warranty obligations provided in this contract.

PART III. SAFETY.

ARTICLE 17. PROTECTION OF PERSONS AND PROPERTY.

17.01. Contractor's responsibility for safety. The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work. 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 work 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 subcontractor; and
- (c) other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

17.02. Compliance with safety requirements. The Contractor shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss. He 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 owners and users of adjacent utilities.

17.03. Trench safety. For all trenches to be made in connection with the work, the contractor shall submit a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trenches. If such plan varies from the shoring system standards, a registered civil or structural engineer shall prepare the plan. The plan shall be reviewed, and must receive approval as adequate to protect worker safety, by the County or by a registered civil or structural engineer employed by the County, in advance of excavation. The shoring, sloping, or protective system must be at least as effective as that required by the Construction Safety Orders. See Labor Code section 6705.

17.04. Hazardous substance. The term "hazardous substance" means any substance on the list of hazardous substances established by the Director of Industrial Relations pursuant to the Labor Code section 6382, which includes asbestos, lead, toxic chemicals, contaminants, any substance designated by the Environmental Protection Agency as a hazardous substance, and other pollutants and contaminants.

- (a) If Contractor encounters on the property any substance reasonably believed to be a Hazardous Substance that has not been rendered harmless, i.e., not potentially hazardous to human health, Contractor shall immediately stop work in the area affected and report the condition to the County Project Manager and Architect in writing.
- (b) Neither the Contractor nor any subcontractor shall cause or permit any Hazardous Substance to be brought upon the property or used in the work without the prior written consent of the County. Contractor and each subcontractor shall comply with all laws regarding the handling, treatment, presence, removal, storage, decontamination, cleanup, transportation, or disposal of Hazardous Substances brought onto the property by Contractor, its Subcontractors, and/or their personnel.
- (c) Any handling, treatment, removal, decontamination, cleanup, transportation, disposal, or disturbance in any of Hazardous Substances shall only be performed by the Contractor or any

subcontractor licensed and certified to perform the work. Any hazardous substance abatement or remediation work will be performed in such a way that is legally consistent with the recommendations of the certified County agent, appropriate governmental agencies, and all applicable laws.

(d) If there is a Hazardous Substance on the property, Contractor shall protect adjoining property and shall provide barricades, temporary fences, and covered walkways required to protect the health and safety of passersby as required by this Agreement, prudent construction practices, and all applicable laws.

17.05. Contractor's safety monitor. The Contractor shall designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to the County.

17.06. Unsafe loading. The Contractor shall not load or permit any part of the work to be loaded so as to endanger its safety.

17.07. Emergencies. In any emergency affecting the safety of persons or property, the Contractor shall act, at his discretion, to prevent threatened damage, injury, or loss. Any additional compensation or extension of time claimed by the Contractor on account of emergency work shall be determined as provided in Article 15 for changes in the work.

17.08. Accidents. Contractor shall promptly report in writing to the Architect and County all accidents whatsoever arising out of, or in connection with the performance of the work, whether on or off the site, which caused death, personal injury, or property damage, giving full details and statements of witnesses. In addition, if death or serious injuries or serious damages are caused, Contractor shall report the accident immediately to the Project Manager by telephone or messenger. Contractor shall thereafter promptly report the facts in writing to the Architect and County giving full details of the accident.

PART IV. PAYMENTS.

ARTICLE 18. PROGRESS PAYMENTS.

18.01. Monthly progress payments. Monthly progress payments shall be made to the Contractor, as provided in this Article.

18.02. Schedule of values. Before Contractor submits any application for payment, the Contractor shall submit to the Project Manager a schedule of values of the various portions of the work, to be used to enable the County to estimate the timing and amounts of the successive progress payments. If required by the Project Manager, the schedule shall include quantities aggregating the total contract sum, divided so as to show the Contractor's anticipated payments to subcontractors. The schedule shall be prepared in such form as may be specified in the contract documents or by the Project Manager, or as may be agreed upon by the Project Manager and the Contractor. The schedule shall include such data as the Project Manager may require substantiating its correctness. Each item in the schedule shall include its proper share of overhead and profit. This schedule, when approved by the Project Manager, shall be used only

for preparing and reviewing the Contractor's applications for payment, and will not be considered as fixing a basis for additions to or deductions from the contract sum.

18.03. Application for payment. On or before the fifth day of each month, the Contractor shall submit to the Project Manager an application for payment including a schedule of values, requesting payment for the work completed up to the end of that same month, using the standard AIA form for requesting progress payments or such other form as may be prescribed by County. The application shall be itemized by task and shall be supported by such data substantiating the Contractor's right to payment as the County or the Project Manager may require.

18.04. Payment for stored materials and equipment. If payments are to be made on account of materials or equipment not incorporated in the work but delivered and suitably stored at the site, or at some other location agreed upon in writing, such payments shall be conditioned upon submission by the Contractor of bills of sale or such other procedures satisfactory to the County to establish the County's title to such materials or equipment or otherwise protect the County's interest including applicable insurance and transportation to the site.

18.05. Certificates for payment. If the Contractor has made application for payment as above, the Project Manager will, with reasonable promptness but not more than ten (10) days after the receipt of the application, issue a certificate for payment to the County, with a copy to the Contractor, for such amount as he determines to be properly due, or state in writing his reasons for withholding a certificate as provided in paragraph 19.01. A payment request determined not to be a proper payment request suitable for payment will be returned to the Contractor within seven (7) days with a statement setting forth the reasons why the payment request is not proper. The final payment, if unencumbered, or any part thereof unencumbered, shall be made not later than 60 days after completion of the work and submission of all completion documents. Payments shall be made on demands drawn in the manner required by law, accompanied by a certificate signed by the Project Manager, stating the work for which payment is demanded has been performed in accordance with the terms of the contract. Contractor is entitled to interest pursuant to Public Contract Code Section 20104.50 if County fails to make the progress payment within 30 days after receipt of an undisputed properly submitted payment request.

18.06. Findings to issue certificate of payment. In determining to issue a certificate of payment, the Project Manager must make the following findings, based on his observations at the site, the schedule of values, and the data included in the application for payment:

- (a) that the work has progressed to the point indicated;
- (b) that, to the best of his knowledge, information, and belief, the quality of the work is in accordance with the contract documents (subject to an evaluation of the work for conformance with the contract documents upon substantial completion, to the results of any subsequent tests required by the contract documents, to minor deviations from the contract documents correctable prior to completion, and to any specific qualifications stated in his certificate); and
- (c) that the Contractor is entitled to payment in the amount certified.

18.07. Amount of progress payment. The amount of each progress payment shall equal ninety percent of the estimated value of work performed up through the last day of the previous month,

less the aggregate of all previous payments. The amount of the progress payment may be further reduced by any withholdings or deductions that may be taken from the payment pursuant to other provisions of this contract. For the purpose of determining the amount of any particular progress payment, the value of work completed is only an estimate; such value or estimate shall be used for no other purpose in connection with this contract and shall not be binding on County or Project Manager for any other purpose or any other payment, and County and Project Manager shall have the right to correct any error in such value or estimate for later payments.

18.08. Payment by County. Promptly after the Project Manager has issued a certificate for payment, the County shall submit the appropriate documentation to the Monterey County Auditor, who shall make payment to Contractor within 30 days thereafter. All materials and work covered by payments made shall thereupon become the sole property of County, and this provision shall not be construed as relieving Contractor from the continuing responsibility for all materials and work upon which payments have been made or the restoration of any damaged work, or as a waiver of any right of County to require the fulfillment of all terms of this Agreement. Title to all work completed in the course of construction and to all materials, including the specifications and other documents prepared by the Project Manager and/or the Contractor on account of which payment has been made shall be vested in County.

18.09. Limited effect of issuance of certificate or progress payment. By issuing a certificate for payment, the Project Manager shall not thereby be deemed to represent that he has made exhaustive or continuous on-site inspections to check the quality or quantity of the work or that he has reviewed the construction means, methods, techniques, sequences, or procedures, or that he has made any examination to ascertain how or for what purpose the Contractor has used the monies previously paid on account of the contract sum. Further, no certificate for a progress payment, nor any progress payment, nor any partial or entire use or occupancy of the project by the County, shall constitute an acceptance of any work not in accordance with the contract documents.

ARTICLE 19. WITHHOLDING PAYMENTS.

19.01. Grounds for withholding payment. The Project Manager may decline to approve an application for payment and may withhold his certificate as to all or part of the payment amount requested, to the extent reasonably necessary to protect the County, if in his opinion he is not able to make the findings set forth in paragraph 18.06. The Project Manager may also decline to approve payment, in whole or in part, and, based on subsequently discovered evidence or subsequent inspections, he may nullify the whole or any part of any certificate for payment previously issued, to such extent as may be necessary in his opinion to protect the County. Such withholding of the certificate or of any amounts requested by Contractor in connection with the certificate, may be based on any of the following grounds:

- (a) defective work not remedied;
- (b) third-party claims filed or reasonable evidence indicating probable filing of such claim;
- (c) failure of the Contractor to make payments properly to subcontractors or for labor, materials, or equipment;

- (d) reasonable doubt that the work can be completed for the unpaid balance of the contract sum;
- (e) damage to another contractor;
- (f) reasonable indication that the work will not be completed within the contract time;
- (g) unsatisfactory prosecution of the work by the Contractor;
- (h) stop notices filed for any portion of the work;
- (i) failure or refusal of the Contractor to fully comply with the contract requirements; or
- (j) Contractor's failure to comply within a reasonable time with Article 17 of these conditions.

19.02. Application of withheld amounts. County may apply any such withheld amounts to payment of such claims or obligations, in County's sole discretion. In so doing, County shall be deemed the agent of Contractor and any payment so made by County shall be considered as a payment made under contract by County to Contractor. County shall not be liable to Contractor for any such payments made in good faith. Such payments may be made without prior judicial determination of such claim or obligation. County will render to Contractor a proper accounting of any funds so disbursed on behalf of Contractor.

19.03. Payment when grounds removed. When the above grounds for withholding payment are removed by Contractor or by County, payment of the withheld amounts or the remaining balance thereof shall be made to Contractor.

ARTICLE 20. COMPLETION AND FINAL PAYMENT.

20.01. Application for final payment. When the work is complete, the Contractor shall submit to the Project Manager the following documents:

- (a) a written notice that the work is ready for final inspection;
- (b) an application for final payment;
- (c) an affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the work for which the County might in any way be responsible, have been paid or otherwise satisfied;
- (d) the consent of the sureties, if any, to final payment; and
- (e) if required by the County, other proof (such as receipts, releases, and waivers of liens) establishing payment or satisfaction of all obligations arising out of the contract, to the extent and in such form as may be designated by the County.

20.02. Bond for outstanding claims or liens. If any person refuses to furnish a release or waiver required by the County, the Contractor may furnish a bond satisfactory to the County to indemnify and defend the County against any claim that might be made against the County or any

lien that might be placed against the work on account of such person. If any such claim or lien remains unsatisfied after all payments are made, the Contractor or the surety shall pay to the County all monies that the County may be compelled to pay in discharging such claim or lien, including all costs and reasonable attorneys' fees.

20.03. Inspection and final certificate. Upon receipt of the above documents, the Project Manager will promptly inspect the work. The Architect and Project Manager shall issue a certificate for final payment, with copies to both County and Contractor, if he makes the following findings:

- (a) that the work is acceptable under the contract documents;
- (b) that the contract has been fully performed;
- (c) that to the best of his knowledge, information, and belief, and on the basis of his observations and inspections, the work has been completed in accordance with the terms and conditions of the contract documents;
- (d) that all potential liens or claims for subcontractors' services and for labor, equipment, and materials on the work have been satisfied or adequately secured;
- (e) that the balance noted in the final certificate is due and payable; and
- (f) that all necessary approvals of applicable federal, state, or local agencies and/or authorities have been issued.

20.04. Determination not to issue certificate for final payment. If the Project Manager determines that the necessary findings cannot be made to issue a final certificate, the Project Manager shall promptly notify the Contractor, in writing, of the reasons for such determination. Contractor shall promptly thereafter take appropriate steps to remove the grounds for denial of the final certificate.

20.05. Acceptance by Board of Supervisors. Promptly after the Project Manager issues the certificate for final payment, the matter will be submitted to the County Board of Supervisors for final acceptance of the work. Work on the contract shall be deemed complete when the Board of Supervisors accepts the work. Not later than fifteen (15) days after such acceptance, County shall record its notice of completion.

20.06. Effect of final payment as to County. The making of the final payment by the County to Contractor hereunder shall not constitute a waiver of any claims which County may now or hereafter have against Contractor by reason of this Agreement or any other matter related to the work.

20.07. Effect of final payment as to Contractor. The acceptance of final payment shall constitute a waiver of all claims by the Contractor except those previously made in writing and still unsettled.

ARTICLE 21. ALTERNATIVE PAYMENT OF WITHHELD FUNDS.

21.01. Alternatives to withholding. This contract requires a five percent (5%) withholding from progress payments. Progress payments shall not be made in excess of 90 percent of the actual work completed plus a like percentage of the value of material delivered on the ground or stored subject to, or under the control of, the County, and unused. County shall withhold ten (10) percent from the progress payments until final completion and acceptance of the project by the Board of Supervisors. At the Contractor's request, the County shall make payment of these funds withheld from progress payments through the use of the escrow procedures provided in this paragraph and either paragraph 21.02 or 21.03. As a prerequisite to compliance with paragraph 21.02 or 21.03, the Contractor shall select an escrow agent, who shall be the County Auditor-Controller or any state or federally chartered bank in California; the parties shall enter into an escrow agreement meeting the requirements of Public Contract Code Section 22300; and the parties shall deposit with the escrow agent the escrow agreement, the withheld portions of the progress payments that have accrued before opening of the escrow, all future withheld portions as they accrue, and all other deposits required below. The Contractor shall pay all expenses incurred in implementing the procedures set forth herein.

21.02. Alternative one: substitution of securities for withheld funds. At the Contractor's request, eligible securities provided by the Contractor, equivalent to the amount withheld, shall be deposited with the escrow agent, who shall then pay the withheld monies to the Contractor. After the initial deposits and disbursements, the County shall deposit all additional amounts to be withheld with the escrow agent as they accrue, and if the Contractor desires their release, the Contractor shall increase the amount of the securities on deposit, if necessary, in order that the value of the securities on deposit shall equal or exceed the total of all amounts currently and previously authorized to be withheld under the contract without the substitution of securities. Upon satisfaction of that condition, the escrow agent shall immediately pay the additional withheld amounts to the Contractor. Upon satisfactory completion of the contract, the securities shall be returned to the Contractor.

21.03. Alternative two: investment of withheld funds. Alternatively, the Contractor may direct that the withheld funds deposited in the escrow be invested in eligible securities. Upon satisfactory completion of the contract, the Contractor shall receive from the escrow agent all securities, interest, and payments received by the escrow agent from the County. The Contractor shall pay to each subcontractor, not later than 20 days after receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each subcontractor, on the amount of retention withheld to ensure the performance of the Contractor.

21.04. Eligible securities: interest. Securities eligible to be used under the above paragraphs shall include those listed in Government Code Section 16430, bank or savings and loan certificates of deposit, interest-bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the Contractor and the County. The parties must agree upon the value of the securities, as a condition of their deposit in the escrow. The Contractor shall be the beneficial owner of any securities deposited pursuant to this Article 21 and shall receive any interest thereon. The Contractor may withdraw interest earned on securities held in escrow at any time, without notice to the County.

21.05. Inapplicability of Article 21 to certain contracts. The provisions of this Article 21 shall

not apply to contracts in which there will be financing provided by the Farmers Home Administration of the United States Department of Agriculture pursuant to the Consolidated Farm and Rural Development Act (7 U.S.C. Sec. 1921 et seq.) and where federal regulations or policies, or both, do not allow the substitution of securities.

PART V. EMPLOYMENT PRACTICES.

ARTICLE 22. APPRENTICES.

22.01. Compliance with Labor Code apprenticeship requirements. Contractor and all subcontractors shall comply with the provisions of Labor Code sections 1777.5, 1777.6, and 1777.7, when applicable, pertaining to apprentices, and with all applicable regulations there under (Title 8, Calif. Code of Regulations, sections 200 et seq., especially sections 227 et seq.), including, but not limited to, provisions relating to required or permitted ratios of apprentices to experienced workers. When any question exists concerning these requirements, Contractor and/or any subcontractor concerned should contact the Division of Apprenticeship Standards, 525 Golden Gate Avenue, San Francisco, CA, or one of its branch offices, prior to commencement of work. The prime contractor is responsible for ensuring compliance with this section.

22.02. State policy. It is State policy to encourage the employment and training of apprentices on public works contracts in conformity with standards set by law.

ARTICLE 23. NON-DISCRIMINATION PROVISIONS.

23.01. Non-discrimination in employment practices. Contractor shall ensure that the evaluation and treatment of its employees and applicants for employment and all persons receiving and requesting services are free of such discrimination. Contractor and any subcontractor shall, in the performance of this Agreement, fully comply with all federal, state, and local laws and regulations which prohibit discrimination. The provision of services primarily or exclusively to such target population as may be designated in this Agreement shall not be deemed to be prohibited discrimination.

23.02. "Discrimination" defined. As used in this contract, the term "discrimination" includes, but is not limited to, the illegal denial of equal employment opportunity, harassment (including sexual harassment and violent harassment), disparate treatment, favoritism, subjection to unfair or unequal working conditions, and/or any other prohibited discriminatory practice. The term also includes any act or retaliation.

23.03. Application of Monterey County Code, Chapter 2.80. The provisions of Monterey County Code, Title 2, Chapter 2.80, apply to activities conducted pursuant to this contract. Contractor and its officers and employees, in their actions under this contract, are agents of the Owner within the meaning of Chapter 2.80, and are responsible for ensuring that their workplace and the services that they provide are free from discrimination, as required by Chapter 2.80. Complaints of discrimination made by Contractor, subcontractor(s), or any of their employees or agents against the Owner may be investigated and resolved using the procedures established by Chapter 2.80. Contractor shall establish and follow its own written procedures for the prompt

and fair resolution of discrimination complaints made against Contractor by its own employees, agents and third parties, and shall provide a copy of such procedures to County upon demand by County.

23.04. Compliance with laws. During the performance of this agreement, Contractor shall comply with all applicable federal, state, and local laws and regulations, which prohibit discrimination, including, but not limited to, the following:

- (a) California Labor Code section 1735;
- (b) California Fair Employment and Housing Act, Government Code sections 12900 et seq., and the administrative regulations issued thereunder, Title 2 California Code of Regulations, sections 7285.0 et seq. (Division 4 - Fair Employment and Housing Commission);
- (c) California Government Code sections 11135 - 11139.5 (Title 2, Div. 3, Part 1, Chap.1, Art. 9.5) and any applicable administrative regulations issued thereunder;
- (d) Federal Civil Rights Acts of 1964 and 1991 (see especially Title VII, 42 USC sections 2000d et seq.), as amended, and all administrative rules and regulations issued thereunder (see especially 45 CFR Part 84); and all guidelines and interpretations issued pursuant thereto;
- (e) The Rehabilitation Act of 1973, sections 503 and 504 (29 USC sections 793 and 794), as amended; all requirements imposed by the applicable HHS regulations (45 CFR Part 84); and all guidelines and interpretations issued pursuant thereto;
- (f) Americans With Disabilities Act of 1990 (P.L. 101- 336), as amended, 42 USC sections 12101 et seq., and 47 USC sections 225 and 611, and any federal regulations issued pursuant thereto (see 24 CFR Chapter 1; 28 CFR Parts 35 and 36; 29 CFR Parts 1602, 1627 and 1630; and 36 CFR Part 1191;
- (g) Unruh Civil Rights Act, California Civil Code sections 51 et seq.; and
- (h) Monterey County Code, Title 2, Chapter 2.80, as amended and procedures issued pursuant thereto.

23.05. Written assurances. Upon request by County, Contractor will give any written assurances of compliance with the Civil Rights Acts of 1964 and 1991, as amended, the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, and/or Executive Order 11246, as may be required by the federal government in connection with this contract, pursuant to 45 CFR Sec. 80.4 or 45 CFR Sec. 84.5 or other applicable state or federal regulations.

23.06. Written non-discrimination policy. Contractor shall maintain a written statement of its non-discrimination policies, which shall be consistent with the terms of this agreement. Such statement shall be available to Contractor's employees, the Owner, Owner's officers and employees, and members of the public, upon request.

23.07. Notice to labor unions. Contractor shall give written notice of its obligations under

paragraphs 23.01 - 23.09 to labor organizations with which it has a collective bargaining or other agreement.

23.08. Access to records by government agencies. Contractor shall permit access by Owner and by representatives of the California Department of Fair Employment and Housing and the U.S. Equal Employment Opportunity Commission, and any federal and/or state agency providing funds for this contract upon reasonable notice at any time during normal business hours, but in no case on less than 24-hour notice, to such of its books, records, accounts, facilities, and other sources of information as the inspecting party may deem appropriate to ascertain compliance with these non-discrimination provisions.

23.09. Binding on subcontractors. The provisions of paragraphs 23.01 - 23.09 shall also apply to all of Contractor's subcontractors. Contractor shall include the non-discrimination and compliance provisions of these paragraphs in all subcontracts to perform work or provide services under this agreement.

ARTICLE 24. HOURS OF WORK.

24.01. Eight-hour day; 40-hour week. No work shall be performed by employees of Contractors in excess of eight (8) hours per day or 40 hours during any one week, unless such employees are compensated for all such excess hours at not less than one-and-one-half times the basic rate of pay, as provided in Labor Code Sec. 1815. Holiday work when permitted by law shall also be compensated at not less than one-and-one-half times the basic rate of pay.

24.02. Penalties. Pursuant to Labor Code Sec. 1813, the Contractor shall forfeit, as a penalty to the County, \$25 for each worker employed in the execution of the contract by the Contractor or any subcontractor under him for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of the Labor Code sections 1810-1815.

24.03. Approvals. Contractor will not be entitled to additional compensation for work performed outside of regular working hours, except to the extent such compensation is approved in advance, in writing, by Project Manager. If so approved, such compensation shall in such event cover only the direct cost of the premium portion of the time involved, when permitted, and be without any overhead or profit.

ARTICLE 25. PREVAILING WAGES.

25.01. Prevailing wage rates determined. The Director of the California Department of Industrial Relations has determined the general prevailing rate of per diem wages in the locality in which said public work is to be performed for each craft, classification, or type of worker needed to execute the contract in accordance with Labor Code sections 1770-75. Copies of the prevailing rate of per diem wages are on file and shall be made available to any interested party on request in the RMA-Public Works' office located at 168 West Alisal Street FL2, Salinas CA 93901. Current prevailing wage rate schedules can also be found at the California Department of Industrial Relations website located at <http://www.dir.ca.gov/DLSR/PWD/>.

25.02. Payment of prevailing wage rates required. Contractor and all subcontractors performing

work under this contract shall pay wages to their workers employed on such work at not less than the general prevailing rate of per diem wages for such work, as required by Labor Code Sec. 1771.

25.03. Penalties. Failure to pay such prevailing wages shall subject the employer to the penalties set forth in Labor Code Sec. 1775.

ARTICLE 26. PAYROLL RECORDS.

26.01. Compliance with Labor Code Sec. 1776. Contractor and all subcontractors shall comply with Labor Code Sec. 1776, the requirements of which are set forth in this article. The Contractor shall be responsible for compliance with these provisions by his subcontractors.

26.02. Accurate payroll records required. Contractor and each subcontractor shall keep accurate payroll records, showing the name, address, social security number, work classification, straight time, and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice worker, or other employee employed by him or her in connection with the public work.

26.03. Certification and inspection of payroll records. The payroll records enumerated under paragraph 26.02 shall be certified and shall be available for inspection at all reasonable hours at the principal office of the Contractor or subcontractor on the following basis:

- (a) A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or his or her authorized representative on request.
- (b) A certified copy of all payroll records enumerated in paragraph 26.02 shall be made available for inspection, or furnished upon request, to a representative of County, the Division of Labor Standards Enforcement, or the Division of Apprenticeship Standards of the Department of Industrial Relations.
- (c) A certified copy of all payroll records enumerated in paragraph 26.02 shall be made available upon request to the public for inspection or copies thereof made; provided however, that a request by the public shall be made through the County, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. The public shall not be given access to such records at the principal offices of the Contractor.

26.04. Filing of records. The Contractor and each subcontractor shall file a certified copy of the records enumerated in paragraph 26.02 with the entity that requested such records within ten (10) days after receipt of a written request.

26.05. Elimination of personal identification. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the County, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of the Contractor or subcontractor awarded the contract or performing the contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee

established pursuant to the Federal Labor Management Cooperation Act of 1978 (29USC 175a) shall be marked or obliterated only to prevent disclosure of an individuals name and social security number.

26.06. Notice to County concerning location of records. The Contractor and each subcontractor shall inform the County as to the location of the records enumerated under paragraph 26.02, including the street address, city, and county, and shall within five (5) workdays, provide a notice of any change of location and address.

26.07. Notice of non-compliance; penalties. In the event of non-compliance with the requirements of this section, the Contractor or subcontractor shall have ten (10) days in which to comply subsequent to receipt of written notice specifying in what respects such Contractor or subcontractor must comply with this section. Should non-compliance still be evident after such 10-day period, the Contractor or subcontractor shall, as a penalty to the County, forfeit \$25 for each calendar day, or portion thereof, for each worker, until strict compliance is effected. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from progress payments then due.

PART VI. LEGAL RELATIONS.

ARTICLE 27. COMPLIANCE WITH LAWS.

27.01. Compliance with laws. 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. If the Contractor observes that any of the contract documents are at variance therewith in any respect, he shall promptly notify the Project Manager, in writing, and any necessary changes shall be adjusted by appropriate modification. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Project Manager, he shall assume full responsibility therefore, and shall bear all costs attributable thereto. Without limitation of any other provision hereof, if Contractor performs any work which is contrary to such laws, ordinances, codes, rules and regulations, Contractor shall without additional reimbursement or extension of time make all changes and bear all costs as required to comply.

27.02. Rules of governing agencies. All work and materials shall be in full accordance with the Rules and Regulations of the State Fire Marshall, the Safety Orders of the Division of Industrial Safety, and all other applicable codes and regulations.

27.03. Compliance with uniform codes. All work and materials shall comply with the current editions of the California Building Code, the National Electric Code, the Uniform Plumbing Code, the Uniform Mechanical Code, and the Uniform Administrative Code, as adopted and amended by the local jurisdiction in which the construction project takes place.

27.04. Statutory regulation of public works. This contract is subject to all statutes of the State of California regulating the performance of work by a public agency or political subdivision of such state, and particularly the following:

Public Contract Code sections 4100-4114 (Subletting and Subcontracting Fair Practices

Act).

Labor Code sections 1720-1743 (Public Works, Scope and Operation).

Labor Code sections 1770-1781 (Public Works, Wages).

Labor Code sections 1810-1815 (Public Works, Working Hours).

All work performed under this contract, whether by Contractor or by any subcontractor, shall comply with all such statutes.

27.05. Compliance with Clean Air and Clean Water Acts. Contractor and all subcontractors shall comply with the federal Clean Air Act (42 USC sections 1857 et seq. and sections 7401 et seq.) and with the federal Clean Water Act (33 USC sections 1251 et seq.) and all other applicable federal air and water pollution control rules and regulations.

27.06. Federally funded contracts. If the project for which the work under this contract is to be performed is funded in whole or in part by grants or loans from the federal government, the Contractor and all subcontractors shall comply with regulations adopted by the U.S. Secretary of Labor pursuant to 40 USC section 276c and with all other statutes, rules, and regulations that are applicable because of such federal funding.

27.07. Kickbacks and illegal withholdings of pay. Contractor and all subcontractors shall comply with the provisions of Labor Code sections 221 and 222, which prohibit kickbacks and withholdings from employee wages.

27.08. Illegal fees. Contractor and all subcontractors shall comply with the provisions of Labor Code sections 1778, 1779, and 1780, which prohibit the taking of any portion of the wages of workers employed on public works projects and the collection of certain fees from workers employed on public works projects and from applicants for such employment.

27.09. Provisions required by law deemed inserted. Each and every provision required by law to be inserted in this contract shall be deemed to be inserted herein, and the contract shall be read and enforced as though it were included herein. If through mistake or otherwise any such provision is not set forth word for word in the contract documents, or is not correctly set forth, then upon the application of either party, the contract shall forthwith be physically amended to make such insertion or correction.

27.10. Good-faith effort to hire Monterey Bay Area residents. For all provisions of the Good-faith effort to hire Monterey Bay area residents, see Information for Bidders, Division 00200, page 5, number 15 and Contractor's Certification of Good-Faith Effort to Hire Monterey Bay Area Residents, page 21.

ARTICLE 28. PERFORMANCE AND PAYMENT BONDS.

28.01 Required bonds and amounts. The Contractor shall furnish a surety bond in an amount equal to one hundred percent (100%) of the contract sum as security for faithful performance of this contract ("Performance Bond") and shall furnish a separate surety bond in an amount at least equal to one hundred percent (100%) of the contract sum as security for the payment of all persons performing labor and furnishing materials in connection with the contract ("Payment Bond"). Both the Performance Bond and the Payment Bond must be executed by an admitted

surety insurer. The form of these bonds shall be as set forth in these contract documents. Upon request of the contractor, the County will consider and accept multiple sureties on such bonds.

ARTICLE 29. INDEMNIFICATION AND INSURANCE.

29.01. Indemnification. Contractor shall indemnify, defend, and hold harmless the County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms, or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with the Contractor's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of the County. "Contractor's performance" includes Contractor's action or inaction and the action or inaction of Contractor's officers, employees, agents, and subcontractors.

29.02. Evidence of Coverage. Prior to commencement of this Agreement, The Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition a certified copy of the policy or policies shall be provided by the Contractor upon request.

This verification of coverage shall be sent to the County Contracts/Purchasing division, with a copy provided to the RMA-Public Works, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and such, insurance has been approved by the County. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

29.03. Qualifying Insurers. All Coverages except surety, shall be issued by companies which hold a current policyholder's alphabetic and financial size category rating of not less than A-VII, according to the current Best Key Rating Guide or a company of equal financial stability that is approved by the County Contracts/Purchasing Manager.

29.04. General insurance requirements. Without limiting Contractor's duty to indemnify, Contractor shall maintain in effect throughout the term of this Agreement a policy or policies of insurance with the following minimum limits of liability:

1. Commercial general liability insurance, including, but not limited to, premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broadform Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than \$1 Million (\$1,000,000) per occurrence.

2. Property insurance, covering the entire work at the Site to the full insurable value thereof. This insurance shall include the interests of the County, the Contractor, and all subcontractors in the work and shall insure against the perils of fire, extended coverage, builder's risk, vandalism, and malicious mischief.

3. Business automobile liability insurance, covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than \$1 Million (\$1,000,000) per occurrence.

4. Workers' Compensation Insurance, if Contractor employs others in the performance of this Agreement, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than \$1 Million (\$1,000,000) each person, \$1 Million (\$1,000,000) each accident, and \$1 Million (\$1,000,000) each disease.

5. Professional liability insurance, if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than \$1 Million (\$1,000,000) per claim and \$2 Million (\$2,000,000) in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, the Contractor shall, upon the expiration or earlier termination of this Agreement, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three (3) years following the expiration or earlier termination of this Agreement.

29.05. Other insurance requirements. All insurance required by this Agreement shall be with a company acceptable to the County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three (3) years following the date Contractor completes its performance of services under this Agreement.

Each liability policy shall provide that the County shall be given notice, in writing, at least thirty (30) days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

Commercial general liability and automobile liability policies shall provide an endorsement

naming the County of Monterey, its officers, agents, and employees as Additional Insureds with respect to liability arising out of the Contractor's work, including ongoing and completed operations, and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the Contractor's insurance. The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.

Prior to the execution of this Agreement by the County, Contractor shall file certificates of insurance with the County's contract administrator and County Contracts/Purchasing Division, showing that the Contractor has in effect the insurance required by this Agreement. The Contractor shall file a new or amended certificate of insurance within five (5) calendar days after any change is made in any insurance policy which would alter the information on the certificate then on file. Additionally, Contractor shall provide certificates for subcontractors of any tier in compliance with these provisions. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

Contractor shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by County, annual certificates to County's Contract Administrator and County Contracts/Purchasing Division. If the certificate is not received by the expiration date, County shall notify Contractor and Contractor shall have five (5) calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by Contractor to maintain such insurance is a default of this Agreement which entitles County, at its sole discretion, to terminate this Agreement immediately.

29.06. Acknowledgment of workers' compensation requirements. As required by Labor Code section 1861, the Contractor and each subcontractor shall, before commencing work on the project, sign and file with the County, the following certificate:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of the Labor Code, and I will comply with such provisions before commencing the performance of the work of this contract."

29.07. Compliance. In the event of the failure of Contractor to furnish and maintain any insurance required by this Section, County or Architect shall have the right to take out and maintain such insurance for and in the name of the Contractor. Contractor shall pay the cost thereof and shall furnish all information necessary to obtain and maintain such insurance for the account of Contractor. County and Architect each shall also have the right to set-off the costs of obtaining and maintaining such insurance against any amounts due Contractor under the Contract Documents. Compliance by Contractor with the requirement to carry insurance and furnish certificates or policies evidencing the same contained in this Article 29 shall not relieve Contractor from liability assumed under any provision of the Contract Documents, including, without limitation, the obligation to defend and indemnify each of the Indemnities.

29.08. Application of Insurance Proceeds.

(a) In the event of any damage to or destruction of the work from any cause insured against by the insurance required under this Article 29, or any other insurance obtained by Contractor or any other source, County may, in its sole discretion, either (i) require Contractor to repair any such damage or destruction and reconstruct the work in accordance with the contract documents, and Contractor agrees to perform any such requirement of Architect, or (ii) terminate the Contract and Contractor shall have no claim arising out of such termination. In the event the work is repaired or reconstructed, appropriate adjustments, if any, in the amount of the contract price or for the time of completion of the work shall be made by change order. County shall be given credit against any amount due Contractor under the contract documents for the amount of any insurance proceeds collected by Contractor to the extent such proceeds cover costs otherwise payable by County under the contract documents. In the event that County decides not to restore or reconstruct the work and terminates the contract, Contractor shall receive from the insurance proceeds all amounts due Contractor under the Contract for that portion of the work completed as of the date of the event of damage or destruction.

(b) In the event of any damage to or destruction of the work (i) not due to or arising out of the fault or neglect of Contractor or any subcontractor and (ii) from a cause not insured against by the insurance required under this Article 29, County may, in its sole discretion, either (i) require Contractor to repair any such damage or destruction and reconstruct the work in accordance with the Contract Documents, and Contractor agrees to perform any such requirements of Architect, or (ii) terminate the Contract. In the event County decides not to restore or reconstruct the work in accordance with the Contract Documents and cause termination of the Contract, Contractor shall have no claim arising out of such termination. In the event that work is repaired or reconstructed, appropriate adjustments, if any, in the amount of the contract price and for the time of completion of the work shall be made by change order. County shall be given credit against any amount due Contractor under the contract documents to the extent insurance proceeds payable to Contractor cover costs otherwise payable by County under the contract documents. In the event that County decides not to restore or reconstruct the work and causes termination of the contract, County shall pay Contractor, as its sole compensation, all amounts due under the Contract Documents for the portion of the work completed as of the date of the event of damage or destruction. Contractor shall be solely responsible for and shall, without cost or expense to County, promptly and with all due diligence, restore and reconstruct any uninsured loss or damage to the work which occurs as a result of any fault or neglect of the Contractor or any subcontractor. This obligation is in addition to County's remedies under the Contract Documents or by law.

ARTICLE 30. CLAIMS AND DISPUTE RESOLUTION.

30.01. Prompt resolution of differences required. It is the intention of this Article that differences between the parties arising under and by virtue of the contract be brought to the attention of the Project Manager at the earliest possible time in order that such matters may be promptly settled, if possible, or other appropriate action may be taken promptly.

30.02. Contract interpretations, performance judging, and decisions by Architect and PM.

(a) All claims may be presented informally first to the Project Manager. To the extent that resolution of the claim does not involve an extension of time or additional payments, the Project Manager may resolve, in writing, or otherwise, claims that have been presented informally.

(b) The Project Manager will be, in the first instance, the interpreter of the requirements of the contract documents and the judge of the performance thereunder by both the County and Contractor. The Project Manager will, within a reasonable time, render such interpretations, as he may deem necessary for the proper execution or progress of the work. Claims, disputes and other matters in question between the Contractor and the County relating to the execution or progress of the work or the interpretation of the contract documents shall be referred initially to the Project Manager for decision which he will render, in writing, within a reasonable time. In his capacity as interpreter and judge, he will exercise his best efforts to ensure faithful performance by both the County and the Contractor and will not show partiality to either. All interpretations and decisions of the Project Manager shall be consistent with the intent of the contract documents.

(c) See Section 2.06 and 2.08 for the role of the Architect.

30.03. Written notice to Project Manager. Any claim for additional compensation or for an extension of time shall be resolved as hereinafter provided. The Contractor shall not be entitled to the payment of any additional compensation for any occurrence or matter relating to this contract and will not be granted any extension of time for performance under this contract, unless the Contractor first gives written notice of such claim to the Project Manager.

30.04. Contents of notice of claim. The written notice of claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, the reasons for any extension of time, and, insofar as possible, the amount of the claim and the amount of any time extension requested.

30.05. Time for giving notice. The notice of claim must be given to the Project Manager as follows:

(a) If the claim is for an increase in the contract sum, he shall give the Project Manager written notice thereof within ten (10) days after the occurrence of the event giving rise to such claim; in addition, this notice shall be given by the Contractor before proceeding to execute the portion of the work to which the claim relates, except in an emergency endangering life or property, and except where the Contractor could not reasonably have discovered the facts giving rise to the claim prior to commencement of that portion of the work.

(b) All claims for extension of time shall be made, in writing, to the Project Manager no more than ten (10) days after the occurrence of the delay; otherwise they shall be waived. In the case of a continuing cause of delay, only one claim is necessary.

(c) In all other cases, notice shall be given within ten (10) days after the happening of the event, thing, or occurrence giving rise to the claim.

30.06. Response by County - claims for under \$50,000 and for extensions of time. For claims

of less than \$50,000 and for claims for extension of time, County shall respond, in writing, to any written claim within 45 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim any additional documentation supporting the claim or relating to defenses or claims the County may have against the claimant. If further information is thereafter required, it shall be requested and provided pursuant to Public Contract Code Section 20104.2(b)(2). The County's response to the claim, as further documented, shall be submitted to the claimant within 15 days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

30.07. Response by County - claims of \$50,000 or more and less than or equal to \$375,000. For claims of \$50,000 or more and less than or equal to \$375,000, and for all claims not covered by paragraph 30.04, County shall respond, in writing, to any written claim within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim any additional documentation supporting the claim or relating to defenses or claims the County may have against the claimant. If further information is thereafter required, it shall be requested and provided pursuant to Public Contract Code Section 20104.2(c)(2). The County's response to the claim, as further documented, shall be submitted to the claimant within 30 days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

30.08. Prompt response when needed. Whenever it appears that a prompt response is essential, County will respond to claims sooner than the limits prescribed above.

30.09. County's response disputed or not made. If the claimant disputes the County's written response, or if the County fails to respond within the time prescribed, the claimant may so notify the County, in writing, either within 15 days of receipt of the County's response or within 15 days of the County's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the County shall schedule a meet-and-confer conference within 30 days for settlement of the dispute.

30.10. Filing of Government Code claims. If the claimant still remains unsatisfied and desires to preserve his right to pursue the matter further, he must then file a claim with the County, pursuant to Government Code sections 900 et seq. or sections 910 et seq.

30.11. Civil action. If the Government Code claim is denied, the claimant may file an action in court. Such action shall be subject to Public Contract Code section 20104.4. This paragraph applies only to claims subject to Public Contract Code section 20104. If a claim is not subject to Public Contract Code section 20104, the claimant's right to file a civil action shall be as otherwise provided by law.

30.12. Claims for damages. 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 his employees, agents, or others for whose acts he is legally liable, claim shall be made, in writing, to such other party within a reasonable time after the first observance of such injury or damage, provided that in no case may such a claim be filed after expiration of any applicable statute of limitations for filing such a claim. Claims against County that are subject

to this paragraph shall comply with all procedures set forth in the California Government Code concerning claims against public entities.

30.13. Consistency with Public Contract Code sections 20104 et seq. If any claim arising under this contract is subject to the provisions of Public Contract Code sections 20104 et seq. (Div. 2, Part 3, Chapter 1, Article 1.5), and if the provisions of that Article require a procedure or procedural element different from that established in this contract, then the provisions of that Article shall apply in place of the conflicting procedure or procedural element established herein.

ARTICLE 31. DEFAULT AND TERMINATION OF THE CONTRACT.

31.01. County's right to stop work. If the Contractor fails to correct defective work or fails to supply materials or equipment in accordance with the contract documents, the County may order the Contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated.

31.02. County's rights on Contractor's default. If the Contractor fails to prosecute the work diligently or fails to perform any provision of the contract, the County may, after seven (7) days' written notice to the Contractor and without prejudice to any other remedy he may have, make good such deficiencies. In such case, any appropriate change order shall be issued deducting from the payments then or thereafter due the Contractor, the cost of correcting such deficiencies, including the cost of the Architect's and other County Contractors' additional services made necessary by such default. Such change order shall not require the consent of the Contractor to be effective. The Project Manager must approve both such action and the amount charged to the Contractor. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the County.

31.03. Termination by County.

(a) The County may terminate the performance of the Contractor under this contract, without prejudice to any other right or remedy the County may have, in the manner hereinafter provided, upon certification by the Project Manager that the following circumstances have arisen:

1. the Contractor is adjudged bankrupt, or makes a general assignment for the benefit of his creditors, or a receiver is appointed on account of his insolvency (except as provided in (e) below);
2. the Contractor refuses or fails, except in cases for which an extension of time is provided, to supply enough properly skilled workers or proper materials;
3. the Contractor fails to make prompt payment to subcontractors, to suppliers of materials or equipment, or to employees;
4. the Contractor disregards laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or
5. the Contractor otherwise is guilty of a substantial violation of the contract.

(b) To terminate the performance of the Contractor, County shall first give ten days' written notice to Contractor and his surety, if any, stating County's intent to terminate the performance

of the Contractor unless within ten days the grounds for such termination have been removed, and giving his reasons therefor.

(c) If within ten days the grounds for termination are not removed, County may immediately terminate the performance of the Contractor and shall promptly serve notice of termination on the Contractor and the surety. The surety shall have the right to take over and perform the contract, provided that, within fifteen days after service upon it of said notice of termination, the surety must first give written notice to County that it intends to take over and perform the contract, and within thirty days after service upon it of said notice of termination, the surety must commence performance of the contract. If surety fails to take either of these steps in a timely manner, County may immediately 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 it may deem expedient.

(d) If within ten (10) days of County's notice of intent to terminate, the grounds for termination are not removed, the Contractor shall not be entitled to receive any further payment until the work is finished. If, upon completion of the work by County, the unpaid balance of the contract sum exceeds the costs of finishing the work (including compensation for additional architectural, managerial, and administrative services), such excess shall be paid to the Contractor. If such costs exceed such unpaid balance, the Contractor or his surety shall pay the difference to the County. The costs incurred by the County as herein provided shall be certified by the Project Manager.

(e) Notwithstanding the foregoing, performance of the Contractor under this contract may not be terminated, and the contract may not be modified, where a trustee in bankruptcy has assumed the contract pursuant to 11 U.S.C. Sec. 365.

31.04. Termination by Contractor.

(a) The Contractor may, upon seven days' written notice to the County and the Project Manager, terminate the contract if the work is stopped for a period of forty-five days under an order of any court or other public authority having jurisdiction, or as a result of an act of government, such as a declaration of a national emergency making materials unavailable, through no act or 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.

(b) To terminate the contract, the Contractor must give written notice to County of such termination, stating the reasons therefor.

(c) The Contractor may then recover from the County payment for all work executed, for any proven loss sustained upon any materials, equipment, tools, construction equipment and machinery, for lost profits, and for all other damages suffered by the Contractor on account of such stoppage of work.

31.05. Termination for Convenience of the County.

(a) The performance of work under this contract may be terminated by County in accordance with the section in whole, or from time-to-time in part, whenever the County shall determine

that termination is in the best interest of the County. Any such termination shall be effected by delivery to Contractor of a Notice of Termination specifying the extent to which performance of work under the contract is terminated, and the date upon which such termination becomes effective.

(b) After receipt of a Notice of Termination, and except as otherwise directed by the County, Contractor shall:

1. stop work under the contract on the date and to the extent specified in the Notice of Termination;
2. place no further orders or subcontracts for materials, services, or facilities except as may be necessary for completion of such portion of the work under the contract as is not terminated;
3. terminate all orders and subcontracts to the extent that they relate to the performance of work terminated by the Notice of Termination;
4. assign to County all the right, title, and interests of Contractor under the orders and subcontracts so terminated, in which case Contractor shall have the right, in its discretion, to settle or pay any or all claims arising out of the termination of such orders and subcontracts if so directed by County;
5. settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, subject to the approval of the County;
6. complete performance of such part of the work as shall not have been terminated by the Notice of Termination; and
7. take such action as may be necessary, or as County may direct, for the protection and preservation of the property related to this contract which is in the possession of the Contractor and in which County has, or may acquire, an interest.

(c) After receipt of a Notice of Termination, the Contractor shall submit to County a verified termination claim. Such claim shall be submitted promptly, but in no event later than 30 days from the effective date of termination, unless one or more extensions, in writing, are granted by the County upon request of Contractor made, in writing, within such period or authorized extension of the period.

(d) Contractor and County may agree upon the whole or any part of the amount or amounts to be paid to Contractor by reason of the total or partial termination of work pursuant to this article, which amount or amounts may included a reasonable allowance for profit on work done; provided that the total contract price as reduced by the amount of payments otherwise made and as further reduced by the contract price of work not terminated does not exceed the contract sum.

ARTICLE 32. WARRANTIES.

32.01. Warranty as to all work. The Contractor shall guarantee all work performed under this contract against defective materials or workmanship for a period of one year from the date of final acceptance by the County, or for such longer time period as may be prescribed by law or by the terms of any applicable special guarantee required by the contract. The Contractor shall remedy any defects appearing within that time period and pay for any damage resulting therefrom.

32.02. Repair of defective work. Contractor shall, within a reasonable time but in no case longer than fifteen (15) days after receipt of written notice thereof, repair and/or replace any defects in materials or workmanship which may develop during said one-year period and any damage resulting from the repairing or replacing of such defects at his own expense and without cost to County. In the event Contractor fails to remedy any such defect within such reasonable time, County may proceed to have such defects remedied at Contractor's expense, and Contractor shall pay the costs and charges incurred thereby and any other damages of County. Nothing contained in this paragraph shall operate to relieve Contractor from responsibility after one year from the date of final acceptance of the completed work by County as regards damages resulting from defects, both latent and patent, departures from the requirements of the contract, fraud, or such other gross mistakes as amount to fraud, and Contractor shall indemnify, defend, and save County harmless from and against liability, loss, or damage arising by reason of any and all such matters. Contractor shall transfer to County all guarantees and warranties on equipment included within the project which Contractor receives from material persons and subcontractors. Neither acceptance nor payment nor any provision in these documents shall be deemed a waiver by County nor relieve Contractor of any responsibility under the contract. Notwithstanding the above, failure by the Contractor to take corrective action within 24 hours after personal or telephonic notice by the County on items affecting use of facility, safety, or the preservation of property, will result in the County taking whatever correction action it deems necessary. All costs resulting from such action by the County will be claimed against Contractor or, if necessary, the Contractor's performance bond.

32.03. Title free of liens at time of each progress payment. The Contractor warrants and guarantees that title to all work, materials, and equipment covered by an application for payment, whether incorporated in the project or not, will pass to the County upon the receipt of such payment by the Contractor, free and clear of all liens, claims, security interests, or encumbrances.

32.04. Warranty as to liens. No materials, supplies, or equipment for work under this contract shall be purchased subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part thereof is retained by seller or supplier. Contractor warrants good title to all materials, supplies, and equipment installed or incorporated in the work and agrees upon completion of all work to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him, to County free from claims, liens, or charges. Contractor further agrees that neither he nor any person, firm, or corporation furnishing any materials or labor for any work covered by this contract shall have any right to any lien upon the premises or any improvement or appurtenance thereon. Nothing contained in this article, however, shall defeat or impair the right of persons furnishing material or labor under any bond given the Contractor for their protection or any rights under any law permitting such persons to look to funds due Contractor in the hands of the County, and this provision shall be inserted in all subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing material for work when no formal contract is entered into for such material.

32.05. Other Warranties. In addition to the warranties in the Contract Documents, Contractor shall assign to County through Architect all assignable warranties it obtains from

manufacturers or suppliers with respect to any materials, equipment, or fixtures incorporated into the work, but the assignment shall not relieve Contractor of any of its guaranties or obligations. Contractor's guaranties and the Contract Documents shall not act as a bar to Contractor's liability for any third-party claim against Contractor, and are in addition to, not exclusive of, Contractor's other obligations under the Contract Documents, including, without limitation, Contractor's obligation to indemnify and defend County and Architect.

32.6. No Limitations. Nothing in this Article 32 shall be construed to establish a period of limitation with respect to any latent or patent defects in the work or claims or liabilities arising therefrom. The establishment of time periods relates only to the specific obligation of Contractor to correct or cause correction of 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 under the contract documents or in connection with the work.

PART VII. MISCELLANEOUS.

ARTICLE 33. MISCELLANEOUS PROVISIONS.

33.01. State audits. If this contract involves the expenditure of public funds in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor of the State of California for a period of three (3) years after final payment under the contract, as required by Government Code Sec. 8546.7. The examination and audit shall be confined to those matters connected with the performance of the contract, including, but not limited to, the costs of administering the contract.

33.02. Governing law. The contract shall be governed by the law of the State of California.

33.03. No assignment. Neither party to the contract shall assign the contract without the written consent of the other, nor shall the Contractor assign any monies due or to become due to him hereunder, without the previous written consent of the County. Should any money due or to become due under this contract be assigned, it shall be subject to a prior lien for services rendered or material supplied for performance of work under this contract in favor of all persons, firms, or corporations rendering such services or supplying such materials to the extent that claims are filed pursuant to the Civil Code, the Code of Civil Procedure, and/or the Government Code.

33.04. Binding on successors and assigns. The County and Contractor each binds himself, his partners, successors, assigns, and legal representatives to the other party hereto and to the partners, successors, assigns, and legal representatives of such other party in respect to all covenants, agreements, and obligations contained in the contract documents.

33.05. Notices. All notices required or permitted to be given under this contract shall be in writing and shall be deemed to have been duly served (a) when delivered in person to the individual or member of the firm or to an officer of the corporation for whom it was intended, or (b) 48 hours after the notice is placed in the U.S. mail, properly addressed to the party to whom the notice is to be delivered, for mailing by registered or certified mail, with postage

thereon fully prepaid. The proper address shall be that previously specified in writing by the proposed recipient as the address for mailing notice, or, if none, then the last business address for the recipient known to the person giving the notice.

33.06. Contractual rights and remedies not exclusive. The duties and obligations imposed by the contract documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights, and remedies, otherwise imposed or available by law, except as otherwise specified herein.

33.07. Assignment of anti-trust causes of action. The Contractor and all subcontractors are bound by Public Contract Code section 7103.5, which provides as follows: "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 USC section 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 or 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."

33.08. Royalties and patents. 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 County harmless from loss on account thereof, except that the County 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 that 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 Architect.

33.09. Prohibited interests. No official of County who is authorized in such capacity and on behalf of County to negotiate, make, accept, or approve, or to take part in negotiating, making, accepting or approving any architectural, engineering, inspection, construction or material supply contract or any subcontract in connection with the project, shall become directly or indirectly interested financially in this contract or in any part thereof. No officer, employee, architect, attorney, engineer, or inspector of or for County who is authorized in such capacity and on behalf of County to exercise any executive supervisory or other similar functions in connection with construction of the project shall become directly or indirectly interested financially in this contract or in any part thereof.

33.10. No continuing waiver. A waiver of rights by County or Contractor in one instance hereunder does not constitute a waiver of rights in any similar instance thereafter.

33.11. Taxable possessory interest. The terms of this document may result in the creation of a possessory interest. If such a possessory interest is vested in a private party to this document, the private party may be subjected to the payment of personal property taxes levied on such interest.

SPECIAL CONDITIONS

(Division 00730)

The special conditions below are included as part of the contract for the project.

1. Starting and completion date. Under Article 12 of the General Conditions, the Contractor shall commence and complete work within the following time limits:

The duration to execute the scope of work for the above project is forty-five (45) days as it pertains to Contractor's Scope of Work for base bid and alternates defined by the contract documents. Additionally, Contractor shall coordinate their work with all other Contractors whose work is affected by the Scope of Work defined in this Agreement. Contractor expressly agrees to provide appropriate labor, material, and equipment in response to adjustments in the Project Schedule made by the Architect during the course of the project in order to maintain the required progress.

2. Hours of work. Work will not commence earlier than 7:00 a.m. without written consent of the County.

3. Site Access. Construction access to interior of the building, is not authorized

4. Site Cleanup. All construction materials, equipment and debris shall be removed from the staging area at the close of each business day. Equipment and tools are to be properly and securely stored where the work is underway or taken away at the end of each business day. All existing equipment that must remain due to size is to be covered for the evening and the covering removed prior to the opening of the next business day. All debris will be picked up and properly disposed of at the end of each business day. No debris will be stored in the building. All debris containers will be covered to prevent the wind and/or vandals from scattering refuse.

5. Site Restoration. All lawn, landscaping, pavement, and trees are to be protected from construction equipment and/or vehicles. Any compaction, gouging, tearing, removal, or dislocation of the existing lawn or trees that occurs during the staging and construction process is to be restored to pre-construction quality. Contractor's lay down area shall be restored back to original condition at completion of work activities.

6. Utilities, Disruption of Service. Contractor shall notify the County's representative, in writing, two (2) workdays in advance of any disruption of service, e.g., fire suppression, electrical, water, and the Contractor shall not proceed with the work without written authorization from the County's representative.

7. Contractor Parking. The Contractor will be designated four parking spaces at the parking lot at rear of the site which can be used for delivery of materials and construction vehicles. Barricades must be placed showing the Contractor's name to reserve the spaces when the Contractor's vehicles are not at the site either during the day or over night for the next morning.

8. Noise during construction. The construction site is immediately adjacent to a residential area. Although construction noise cannot be eliminated, excessive noise is to be avoided. Contractor will notify the County Project Manager every week of the upcoming weekly schedule.

9. Liquidated damages. Pursuant to the Agreement and Article 12 of the General Conditions, the amount of liquidated damages shall be *Five Hundred Dollars (\$500)* per day.

10. Agreement and bonds. Contractor will provide specified number of originals for each of the following:

<u>4</u> Executed Agreements	<u>1</u> Performance Bond
<u>1</u> Payment Bond	<u>1</u> Certificate of Liability Insurance with endorsements

11. Contract documents furnished to Contractor. The number of original of the contract documents to be provided under Article 3 of the General Conditions is as follows:

<u>1</u> fully executed Agreement
<u>1</u> copy each Addendum
<u>1</u> copy Plans and Specifications

12. Supervision. Section 7.05 of the General Conditions require that Contractor employ a competent, qualified superintendent to provide full time, on-site supervision of all aspects of the work and further require that such superintendent and project manager be satisfactory to the County. If Contractor fails to have such superintendent on-site at any time during the progress of the work, a penalty of One Thousand Dollars (\$1,000.00) per day shall be deducted from the compensation otherwise due to Contractor for each day on which such failure occurs. Such penalty shall not apply to temporary absences approved in advance by the Architect or County.

13. Owner's Representative. Article 5 and 7. All coordination must be made with the Project Manager. All communication with the Project Manager must be made by the Contractor's Superintendent or Project Manager to maintain control and to prevent misunderstandings. All communication with the Contractor and the County will be in writing.

14. Determining cost for change orders. Section 15.04 of the General Conditions designates the maximum markups allowed by the County.

15. Material Safety Data Sheets (MSDS). Article 14 and 17. MSDS sheets are required on-site for all materials used in the job.

16. Audit rights. With respect to any Change in the Work, other than one based on an agreed lump sum price, resulting in an increase in the contract sum or extension of the contract time, the Contractor shall cause its subcontractors and sub-subcontractors to afford access to the County at all reasonable times to any books, correspondence, instructions, receipts, vouchers, memoranda, and records of any kind relating thereto, all of which each of them shall maintain for a period of at least three (3) years from and after the date the County makes payment on account of such Change in the Work. The Contractor and its subcontractors and sub-subcontractors shall make the same available within three (3) calendar days following notification to the Contractor of the County's intent to audit, failing which the Contractor's claim for an increase in the contract sum and/or extension of the contract time, as applicable, shall be disallowed, and the Contractor shall have no recourse on account of such disallowance.

The Contractor authorizes the County, and shall cause its subcontractors and sub-subcontractors to authorize the County, to check directly with any suppliers of labor and material with respect to any item chargeable to the County under this article, to confirm balances due and to obtain sworn statements and waivers of lien, all if the County so elects.

17. As-built drawings. Per General Conditions Article 8.06 Contractor will be required to maintain a current set of as-built drawings throughout the duration of the project. Upon final completion of the project as outlined in Article 20 of the General Conditions, Contractor will be responsible to provide the close-out documents to the County Project Manager as follows:

- 1 Half-sized, complete as-built drawing set showing all information from the Contractor, Sub-Contractor, and Sub-Sub-Contractor
- 2 CD's with complete as-built drawings, Operations & Maintenance Manual, and Warranty Certifications (with required contact names, addresses and phone numbers) in pdf format
- 2 Hardcopies of the Operation & Maintenance Manual for all installed materials and equipment
- 2 Hardcopies of the Warranty Certifications as noted in the Project Manual with required contact names, addresses and phone numbers

18. Partnering. This contract imposes an obligation of good faith and fair dealing in its performance and enforcement. The County intends to encourage the foundation of a cohesive partnership with the Contractor and its principal subcontractors and suppliers. The objectives are effective and efficient contract performance and completion within budget, on schedule, and in accordance with the contract documents.

19. Prevailing Wages – Payment and Posting Requirements. The Department of Industrial Relations has determined the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft or type of worker needed to execute the contract. It shall be mandatory upon the General Contractor, and upon any subcontractor under him, to pay not less than said specified rates to all workers employed by them in the execution of the contract. The General Contractor is also required to post a copy of the determination of the director of the prevailing rate of per diem wages at the job site (Cal Lab Code 1773.2).

20. Meetings. Contractor will be responsible for attending brief weekly meetings during this contract. The meetings shall be attended by the Contractor's project superintendent and/or project manager and will be located on-site at the project. The Contractor shall bear the administrative costs of their attendance.

21. Submittal Schedule. Upon receipt of the Intent to Award, the Contractor will begin to organize a submittal schedule which will be due to the Architect and County Project Manager no later than the County's projected Notice to Proceed date as listed in the County's overall Project Schedule.

22. Permits. All required permits to start this project will be pulled by the Contractor but paid for directly by the County.

23. Time Extension. No extension of time will be allowed for a schedule delay caused by the Contractor's failure or neglect to construct and maintain all weather approaches. No extension of time will be allowed for "normal" weather conditions for the particular time of the year.

24. Codes and Standards. This project shall conform to applicable requirements prescribed by governmental bodies having jurisdiction and in accordance with those listed on Sheet A001 of the drawings produced by Wald, Ruhnke & Dost Architects, LLP for this project. Should any part of the design fail to comply with such requirements, the discrepancy shall be called to the attention of the Architect and County Project Manager as quickly as possible. Should there be any direct conflict between the drawings and/or specifications and the above rules and regulations, the rules and regulations shall take precedence. However, when the indicated materials, workmanship, arrangement, or construction is of a superior quality or capacity to that required by the listed rules and regulations, the drawings and/or specifications shall take precedence. The rulings and interpretations of enforcing agencies shall be considered as part of the regulations.

25. Background Checks. All employees of the Contractor and subcontractors that will perform work on Probation Department sites will be required to complete a background check. Employees will submit personal information and identification direct to Probation Department, including but not limited to: the following information: Full Name, Date of Birth, California Driver's License Number, and SSN. Contractor and Subcontractor employees who do not submit information or who do not clear the background check will not be permitted to perform work on the job site



**SECTION 00 24 00
PROCUREMENT SCOPE
(Master Scope of Work)**

- A. Base bid shall include the upper roof level. Add alternate bid shall include lower roof level. Refer to A2 Roof Plan drawing.
- B. Remove existing roofing system and flashings in accordance with section 02 41 19.13 Selective Building Demolition and 02 82 00 Asbestos Remediation and section 028300 Lead Remediation.
- C. Installation of thermoplastic single ply membrane at areas of lightweight insulating and structural concrete decking. Refer to section 07 54 00 Thermoplastic Membrane Roofing:
 1. Provide pull testing for mechanical fasteners and/or insulation/membrane adhesive over the lightweight insulating concrete by manufacturer of fasteners in order to verify and ensure wind uplift compliance. Note: The project engineer has performed preliminary pull tests and has determined that the deck is adequate to provide needed pull tests. However, these were not official tests. It is the responsibility of the contractor and manufacturer to perform pull tests to ensure wind uplift and warranty compliance.
 2. For bid purposes, contractor shall include an allowance 500 square feet of repair of lightweight concrete deck. These repairs will be required over numerous separate areas throughout the roof. This shall be bid into the base bid as an allowance. If more is needed, additional funds may be authorized based upon unit costs. If less is needed, credit will be given back to the owner per unit prices.
 3. Attachment:
 - a. Method #1 (preferred): Adhere specified tapered insulation and coverboard directly to the deck using manufacturer approved adhesive.
 - b. Method #2: Install approved base sheet fastened to lightweight insulating concrete using approved fasteners. Adhere tapered insulation and coverboard to base sheet.
 - c. Lower roof area has a structural concrete deck. Therefore, use Method #1 above at this area.
 4. Adhere 80 mil PVC single ply membrane to substrate with approved adhesive.
 5. Perimeter and projection flashings:
 - a. Provide all flashing and penetration details in accordance with the detail drawings and manufacturer guidelines as specified in section 07 54 00 Thermoplastic Membrane Roofing.
 - b. At raised or flat edges, install new coated sheet metal. Any sheet metal that

seals into roof membrane shall be coated metal as provided by the manufacturer. Refer to section 07 15 00 Sheet Metal Waterproofing.

- c. Remove Josam type drains and install manufacturer approved drain inserts in accordance with section 22 14 29.13 Roof Drainage.
6. Provide owner with a five (5) year contractor guarantee as specified in section 07 54 00.
7. Provide owner with a twenty (20) year no-dollar-limit manufacturer warranty covering labor, materials, and metal flashings as specified in section 07 54 00 Thermoplastic Membrane Roofing.
- D. Install new exterior ladder as specified in section 05 51 33.13 Vertical Metal Ladders.

END OF SECTION

SECTION 01100 SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Special Conditions and other Division-1 Specification Sections, apply to this section.

1.2 PROJECT DESCRIPTION

- A. The work to be done under the Contract and in accordance with the Contract Documents consists of performing, installing, furnishing, and supplying all materials, equipment, labor and incidentals necessary or convenient for the installation of that shown, described, and/or indicated on the Contract Documents prepared herewith.

- B. The work consists of but is not necessarily limited to:

Work to be done for Base Bid consists, in general, of: installation of a new roof system at the Juvenile Hall Gymnasium and related repairs. Work to be done for additive alternate bid consists of re-roofing of the lower deck covering the adjacent equipment room. The lowest bidder will be determined for the project by adding Base Bid plus Additive Alternate #1.

1.3 WORK UNDER OTHER CONTRACTS

- A. Separate contracts have been let to other contractors for various projects on the County's premises. The Contractor for this contract will be required to schedule and coordinate as necessary this work so as not to conflict with work by other contractors on the premises.

1.4 WORK SEQUENCE

- A. The Work will be conducted in a single phase to provide the least possible interference to the activities of the County's personnel. The work will begin as soon as practicable and shall be pursued to a timely completion within 30 calendar days of Notice to Proceed or sooner as practicable.
- B. Restriction of work hours shall be as defined by the County's Project Manager. Contractor shall submit a detailed work plan with the bid addressing the work to be performed on the Project including a description of mobilization and methods necessary to mitigate rain conditions and delays. The Contractor's schedule for roof tear-off operations will be submitted to the County's Project Manager at least ten (1) business days in advance of the planned operation.
- C. Contractor may work regular business hours, Monday thru Friday 7am to 5pm and may arrange extended work hours and weekend access to meet with aggressive scheduling measures.

1.5 CONTRACTOR USE OF PREMISES

- A. General: Limit use of the premises to construction activities in areas indicated. Confine operations to areas within contract limits indicated. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed or accessed. Contractor is not authorized to access

the interior of the structure to facilitate completion of the work. Keep non-work areas clear of equipment, material and debris at all times.

- B. Keep driveways and entrances serving the premises clear and available to the County and employees of the County at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site. Specific staging areas for contractor's materials and equipment to be defined by Project Manager.

1.6 COUNTY OCCUPANCY

- A. The County will occupy sites adjacent to the project area during the entire construction period. Cooperate with the County during construction operations to minimize conflicts and facilitate County usage. Perform the Work so as not to interfere with the County's operations.

1.7 MISCELLANEOUS PROVISIONS

- A. The Contractor shall provide adequate protection to the work, his workmen, the General Public, and the County's property.
- B. The Contractor shall use all means and precautions necessary to insure on site safety during construction. All OSHA construction requirements covering a project of this type will be required of the Contractor.
- C. All fencing and security measures must be implemented before work starts.
- D. The Contractor shall do all cutting, fitting, and patching of his work that may be required to make its several parts come together properly as shown upon or reasonably implied from the drawings and specifications for the completed Project.
- E. The Contractor shall be held responsible for any cost caused by defective or ill-timed work. Except as otherwise expressly provided in the Contract Documents, the Contractor shall not cut or alter any work without the consent of County.
- F. All alteration work shall be executed in accordance with the drawings and in conformity with the specification section for the class of work concerned. Materials and finishes shall match the existing work as closely as possible, unless shown, indicated, or scheduled to be otherwise.

PART 2 - PRODUCTS: (Not applicable).

PART 3 - EXECUTION (Not applicable).

END OF SECTION

SECTION 01200 PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Applications for payment.
- B. Change procedures.
- C. Defect assessment.

1.2 APPLICATIONS FOR PAYMENT

- A. Submit one copy of each application for payment on Contractor's formatted invoice form.
- B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.
- C. Payment Period: Submit at one month intervals and upon Substantial Completion of Work.
- D. Substantiating Data: When Owner requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:
 - 1. Partial release of liens from major subcontractors and vendors.
 - 2. Affidavits attesting to off-site stored products.

1.3 CHANGE PROCEDURES

- A. Submittals: Submit name of individual authorized to receive change documents, and be responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. The County will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions in the most appropriate format.
- C. The County may issue a Proposal Request and/or a Notice of Change including a detailed description of proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change with stipulation of overtime work required and the period of time during which the requested price will be considered valid. Contractor will prepare and submit estimate within 10 days.
- D. Contractor may propose changes by submitting a request for change to County, describing proposed change and its full effect on the Work. Include a statement describing reason for the change, and effect on Contract Sum/Price and Contract Time with full documentation and a statement describing effect on Work by separate or other Contractors.
- E. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation or Contractor's request for Change Order as approved by Owner.

- F. Unit Price Change Order: For contract unit prices and quantities, the Change Order will be executed on fixed unit price basis. For unit costs or quantities of units of work which are not pre-determined, execute Work under Construction Change Directive. Changes in Contract Sum/Price or Contract Time will be computed as specified for Change Order.
- G. Construction Change Directive: Owner may issue directive, on appropriate format, signed by Owner, instructing Contractor to proceed with change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work, and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change.
- H. Document each quotation for change in cost or time with sufficient data to allow evaluation of quotation.
- I. Execution of Change Orders: Owner will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- J. Correlation Of Contractor Submittals:
 - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
 - 2. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
 - 3. Promptly enter changes in Project Record Documents.

1.4 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Owner it is not practical to remove and replace the Work, the Owner will direct appropriate remedy or adjust payment.
- C. Authority of Owner to assess defects and identify payment adjustments is final.
- D. Non-Payment For Rejected Products: Payment will not be made for rejected products for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from transporting vehicle.
 - 4. Products placed beyond lines and levels of required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

SECTION 01300 ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Coordination and project conditions.
- B. Field engineering.
- C. Preconstruction meeting.
- D. Site mobilization meeting.
- E. Progress meetings.
- F. Pre-installation meetings.
- G. Cutting and patching.
- H. Special procedures.

1.2 COORDINATION AND PROJECT CONDITIONS

- A. Coordinate scheduling, submittals, and Work of various sections of Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, operating equipment.
- C. Coordinate space requirements, supports, and installation of mechanical and electrical Work indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- D. In finished areas, conceal pipes, ducts, and wiring within construction. Coordinate locations of fixtures and outlets with finish elements.
- E. Coordinate completion and clean-up of Work of separate sections in preparation for Substantial Completion
- F. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

1.3 FIELD ENGINEERING

Not used

1.4 PRECONSTRUCTION MEETING

- A. Owner will schedule meeting after Notice to Proceed.
- B. Attendance Required: County and Contractor.
- C. Agenda:
 - 1. Distribution of Contract Documents.
 - 2. Submission of list of products, schedule of values, and progress schedule.
 - 3. Designation of personnel representing parties in Contract, and County.
 - 4. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 - 5. Scheduling.
 - 6. Use of Premises by Contractor

7. Facilities and utilities provided by Owner.
 8. Access and Security on site
- D. Record minutes and distribute copies within two days after meeting to participants, with one copy to County, and those affected by decisions made.

1.5 SITE MOBILIZATION MEETING

- A. Owner will schedule meeting at Project site prior to Contractor occupancy.
- B. Attendance Required: Owner, Contractor, Contractor's Superintendent, and major Subcontractors.
- C. Agenda:
 1. Use of premises by Owner and Contractor.
 2. Owner's requirements.
 3. Construction facilities and controls provided by Owner.
 4. Temporary utilities provided by Owner.
 5. Survey and building layout.
 6. Security and housekeeping procedures.
 7. Schedules.
 8. Application for payment procedures.
 9. Procedures for testing.
 10. Procedures for maintaining record documents.
 11. Requirements for start-up of equipment.
 12. Inspection and acceptance of equipment put into service during construction period.
- D. Record minutes and distribute copies within two days after meeting to participants, with one copy to County, and those affected by decisions made.

1.6 PROGRESS MEETINGS

Not used.

1.7 PRE-INSTALLATION MEETINGS

- A. When required in individual specification sections, convene pre-installation meetings at Project site prior to commencing work of specific section.
- B. Require attendance of parties directly affecting, or affected by, Work of specific section.
- C. Notify County four days in advance of meeting date.
- D. Prepare agenda and preside at meeting:
 1. Review conditions of installation, preparation and installation procedures.
 2. Review coordination with related work.
- E. Record minutes and distribute copies within two days after meeting to participants, with one copy to County, and those affected by decisions made.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION

3.1 CUTTING AND PATCHING

- A. Employ skilled and experienced installer to perform cutting and patching.
- B. Submit written request in advance of cutting or altering elements affecting:
 1. Structural integrity of element.
 2. Integrity of weather-exposed or moisture-resistant elements.
 3. Efficiency, maintenance, or safety of element.

4. Visual qualities of sight exposed elements.
 5. Work of Owner or separate contractor.
- C. Execute cutting, fitting, and patching to complete Work, and to:
1. Fit the several parts together, to integrate with other Work.
 2. Uncover Work to install or correct ill-timed Work.
 3. Remove and replace defective and non-conforming Work.
 4. Provide openings in elements of Work for penetrations of mechanical and electrical Work.
- D. Execute work by methods to avoid damage to other Work, and to provide proper surfaces to receive patching and finishing.
- E. Restore Work with new products in accordance with requirements of Contract Documents.
- F. Fit Work tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- G. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.
- H. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for assembly, refinish entire unit.
- I. Identify hazardous substances or conditions exposed during the Work to County for decision or remedy.

3.2 SPECIAL PROCEDURES

- A. Materials: As specified in product sections; match existing with new products [and salvaged products] for patching and extending work.
- B. Employ skilled and experienced installer to perform alteration work.
- C. Cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.
- D. Remove unsuitable material not marked for salvage, including rotted wood, corroded metals, and deteriorated masonry and concrete. Replace materials as specified for finished Work.
- E. Remove debris and abandoned items from area and from concealed spaces.
- F. Prepare surface and remove surface finishes to permit installation of new work and finishes.
- G. Close openings in exterior surfaces to protect existing work from weather and extremes of temperature and humidity.
- H. Remove, cut, and patch Work in manner to minimize damage and to permit restoring products and finishes to original condition.
- I. Where new Work abuts or aligns with existing, provide smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.
- J. When finished surfaces are cut so that smooth transition with new Work is not possible, terminate existing surface along straight line at natural line of division and submit recommendation to County for review.
- K. Where change of plane of 1/4 inch or more occurs, submit recommendation for providing smooth transition to County for review.
- L. Refinish trim to original condition.
- M. Patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.
- N. Finish surfaces as specified in individual product sections.

END OF SECTION

SECTION 01330 SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Submittal procedures.
- B. Construction progress schedules.
- C. Proposed products list.
- D. Product data.
- E. Shop drawings.
- F. Samples.
- G. Design data.
- H. Test reports.
- I. Certificates.
- J. Manufacturer's instructions.
- K. Manufacturer's field reports.
- L. Erection drawings.
- M. Construction photographs.

1.2 SUBMITTAL PROCEDURES

- A. Transmit each submittal with Contractor form acceptable to County.
- B. Sequentially number transmittal forms. Mark revised submittals with original number and sequential alphabetic suffix.
- C. Identify Project, Contractor, subcontractor and supplier; pertinent drawing and detail number, and specification section number, appropriate to submittal.
- D. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.
- E. Schedule submittals to expedite Project, and deliver to County at business address. Coordinate submission of related items.
- F. For each submittal for review, allow 15 days excluding delivery time to and from Contractor.
- G. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.
- H. Allow space on submittals for Contractor and County review stamps.
- I. When revised for resubmission, identify changes made since previous submission.

- J. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.
- K. Submittals not requested will not be recognized or processed.

1.3 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit preliminary outline Schedules within 15 days after date established in Notice to Proceed for coordination with County's requirements. After review, submit detailed schedules within 15 days modified to accommodate revisions recommended by County.
- B. Submit revised Progress Schedules with every Application for Payment.
- C. Distribute copies of reviewed schedules to Project site file, subcontractors, suppliers, and other concerned parties.
- D. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.
- E. Show complete sequence of construction by activity, identifying Work of separate stages and other logically grouped activities. Indicate early and late start, early and late finish, float dates, and duration.
- F. Revisions To Schedules:
 - 1. Indicate progress of each activity to date of submittal, and projected completion date of each activity.
 - 2. Identify activities modified since previous submittal, major changes in scope, and other identifiable changes.
 - 3. Prepare narrative report to define problem areas, anticipated delays, and impact on Schedule. Report corrective action taken, or proposed, and its effect [including effect of changes on schedules of separate contractors].

1.4 PROPOSED PRODUCTS LIST

- A. Within 15 days after date of Notice to Proceed, submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
- B. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.5 PRODUCT DATA

- A. Product Data: Submit to County for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Submit number of copies Contractor requires, plus one copy that County will retain.
- C. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- D. Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

- E. After review, produce copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents described in Section 01700 - Execution Requirements.

1.6 SHOP DRAWINGS

- A. Shop Drawings: Submit to County for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Indicate special utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- C. Submit number of opaque reproductions Contractor requires, plus one copy that County will retain.
- D. After review, produce copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents described in Section 01700 - Execution Requirements.

1.7 SAMPLES

- A. Samples: Submit to County for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Samples For Selection as Specified in Product Sections:
 - 1. Submit to County for aesthetic, color, or finish selection.
 - 2. Submit samples of finishes from full range of manufacturers' standard colors, for County selection.
- C. Submit samples to illustrate functional and aesthetic characteristics of Products, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- D. Include identification on each sample, with full Project information.
- E. Submit number of samples specified in individual specification sections; County will retain one sample.
- F. Reviewed samples which may be used in the Work are indicated in individual specification sections.
- G. Samples will not be used for testing purposes unless specifically stated in specification section.
- H. After review, produce duplicates and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents purposes described in Section 01700 - Execution Requirements.

1.8 DESIGN DATA

- A. Submit one copy to County for files.
- B. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.9 TEST REPORTS

- A. Submit one copy for County for files.
- B. Submit test reports for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.10 CERTIFICATES

- A. When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor, or Contractor to County, in quantities specified for Product Data.
- B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or Product, but must be acceptable to County.

1.11 MANUFACTURER'S INSTRUCTIONS

- A. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to County in quantities specified for Product Data.
- B. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

1.12 MANUFACTURER'S FIELD REPORTS

- A. Submit reports for County's benefit.
- B. Submit report within 30 days of observation to County for information.
- C. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

SECTION 01400 QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Quality control and control of installation.
- B. Tolerances.
- C. References.
- D. Testing and inspection services.
- E. Manufacturers' field services.
- F. Examination.
- G. Preparation.

1.2 QUALITY CONTROL AND CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. When manufacturers' instructions conflict with Contract Documents, request clarification from County before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.3 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

- B. Comply with manufacturers' tolerances. When manufacturers' tolerances conflict with Contract Documents, request clarification from County before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

1.4 REFERENCES

- A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current on date of Contract Documents, except where specific date is established by code.
- C. Obtain copies of standards where required by product specification sections.
- D. When specified reference standards conflict with Contract Documents, request clarification from County before proceeding.
- E. Neither contractual relationships, duties, nor responsibilities of parties in Contract nor those of County shall be altered from Contract Documents by mention or inference otherwise in reference documents.

1.5 TESTING AND INSPECTION SERVICES

- A. County will employ and pay for specified services of an independent firm to perform testing and inspection.
- B. The independent firm will perform tests, inspections and other services specified in individual specification sections and as required by County.
 - 1. Laboratory: Authorized to operate in State of California.
 - 2. Laboratory Staff: Maintain full time registered Engineer or specialist on staff to review services.
 - 3. Testing Equipment: Calibrated at reasonable intervals with devices of an accuracy traceable to National Bureau of Standards or accepted values of natural physical constants.
- C. Testing, inspections and source quality control may occur on or off project site. Perform off-site testing as required by County.
- D. Reports will be submitted by independent firm to County, indicating observations and results of tests and indicating compliance or non-compliance with Contract Documents.
- E. Cooperate with independent firm; furnish samples of materials, design mix, equipment, tools, storage, safe access, and assistance by incidental labor as requested.

1. Notify County and independent firm 24 hours prior to expected time for operations requiring services.
2. Make arrangements with independent firm and pay for additional samples and tests required for Contractor's use.
- F. Testing and employment of testing agency or laboratory shall not relieve Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
- G. Re-testing or re-inspection required because of non-conformance to specified requirements shall be performed by same independent firm on instructions by County. Payment for re-testing or re-inspection will be charged to Contractor by deducting testing charges from Contract Sum/Price.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.
- B. Verify existing substrate is capable of structural support or attachment of new Work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Verify utility services are available, of correct characteristics, and in correct locations.

3.2 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying new material or substance in contact or bond.

END OF SECTION

SECTION 01500 TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Temporary Utilities:
 - 1. Temporary electricity.
 - 2. Telephone service.
 - 3. Facsimile service.
 - 4. Temporary sanitary facilities.
- B. Construction Facilities:
 - 1. Parking.
 - 2. Progress cleaning and waste removal.
- C. Temporary Controls:
 - 1. Barriers.
 - 2. Enclosures and fencing.
 - 3. Security.
 - 4. Dust control.
 - 5. Noise control.
- D. Removal of utilities, facilities, and controls.

1.2 TEMPORARY ELECTRICITY

- A. Where possible, Contractor will provide and use portable power. Where impractical, utilize County's existing power service. County will pay cost of energy used. Exercise measures to conserve energy.

1.3 FACSIMILE SERVICE

- A. Provide off-site facsimile.

1.4 TEMPORARY SANITARY FACILITIES

- A. Existing facilities located at project site may not be used during construction operations. Contractor is to provide and maintain in sanitary condition adequate, properly stocked temporary facilities at the location to be determined by the County's Project Manager.

1.5 PARKING

- A. Use of existing on-site streets and driveways used for construction traffic is permitted.
- B. Use of designated areas of existing parking facilities by construction personnel is permitted.

1.6 PROGRESS CLEANING AND WASTE REMOVAL

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing spaces.
- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and rubbish from site daily and dispose off-site.

1.7 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide protection for plants designated to remain. Replace damaged plants.
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.8 ENCLOSURES AND FENCING

- A. Interior Enclosures:
 - 1. Provide temporary partitions as indicated on Drawings to separate work areas from County occupied areas, to prevent penetration of dust and moisture into County occupied areas, and to prevent damage to existing materials and equipment.
 - 2. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:

1.9 SECURITY

- A. Security Program:
 - 1. Protect Work, existing premises, and County's operations from theft, vandalism, and unauthorized entry.
- B. Personnel Identification:
 - 1. County will issue badging daily to all construction personnel. Construction personnel will return badges at the close of the work shift to superintendent for return to County.
 - 2. Maintain list of accredited persons, submit copy to County on request.

1.10 DUST CONTROL

- A. Execute Work by methods to minimize raising dust from construction operations.
- B. Provide positive means to prevent air-borne dust from dispersing into ventilation.

1.11 NOISE CONTROL

- A. Provide methods, means, and facilities to minimize noise from tools, generators and other construction operations.

1.12 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore existing facilities used during construction to original condition.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

SECTION 01600 PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Products.
- B. Product delivery requirements.
- C. Product storage and handling requirements.
- D. Product options.
- E. Product substitution procedures.
- F. Equipment electrical characteristics and components.

1.2 PRODUCTS

- A. Furnish products of qualified manufacturers suitable for intended use. Furnish products of each type by single manufacturer unless specified otherwise.
- B. Do not use materials and equipment removed from existing premises, except as specifically permitted by Contract Documents.
- C. Furnish interchangeable components from same manufacturer for components being replaced.

1.3 PRODUCT DELIVERY REQUIREMENTS

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to ensure products comply with requirements, quantities are correct, and products are undamaged.
- C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

1.4 PRODUCT STORAGE AND HANDLING REQUIREMENTS

- A. Store and protect products in accordance with manufacturers' instructions.
- B. Store with seals and labels intact and legible.

- C. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- D. For exterior storage of fabricated products, place on sloped supports above ground.
- E. Provide off-site storage and protection when site does not permit on-site storage or protection.
- F. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- G. Store loose granular materials on solid flat surfaces in well-drained area. Prevent mixing with foreign matter.
- H. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- I. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

1.5 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Products of one of manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with Provision for Substitutions: Submit request for substitution for any manufacturer not named in accordance with the following article.

1.6 PRODUCT SUBSTITUTION PROCEDURES

- A. Instructions to Bidders specify time restrictions for submitting requests for Substitutions during bidding period to requirements specified in this section.
- B. Substitutions may be considered when a product becomes unavailable through no fault of Contractor.
- C. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.
- D. A request constitutes a representation that Contractor:
 - 1. Has investigated proposed product and determined that it meets or exceeds quality level of specified product.

2. Will provide same warranty for Substitution as for specified product.
 3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to County.
 4. Waives claims for additional costs or time extension which may subsequently become apparent.
 5. Will reimburse County for review or redesign services associated with re-approval by authorities having jurisdiction.
- E. Substitutions will not be considered when they are indicated or implied on Shop Drawing or Product Data submittals, without separate written request, or when acceptance will require revision to Contract Documents.
- F. Substitution Submittal Procedure:
1. Submit one copy of request for Substitution for consideration. Limit each request to one proposed Substitution.
 2. Submit Shop Drawings, Product Data, and certified test results attesting to proposed product equivalence. Burden of proof is on proposer.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not Used

END OF SECTION

SECTION 01700 EXECUTION REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Closeout procedures.
- B. Final cleaning.
- C. Starting of systems.
- D. Demonstration and instructions.
- E. Testing, adjusting and balancing.
- F. Protecting installed construction.
- G. Project record documents.
- H. Operation and maintenance data.
- I. Manual for materials and finishes.
- J. Manual for equipment and systems.
- K. Spare parts and maintenance products.
- L. Product warranties and product bonds.
- M. Maintenance service.

1.2 CLOSEOUT PROCEDURES

- A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for County's review.
- B. Provide submittals to County required by authorities having jurisdiction.
- C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- D. County will occupy all portions of building as specified in Section 01100 - Summary.

1.3 FINAL CLEANING

- A. Execute final cleaning prior to final project assessment.

- B. Clean interior and exterior glass, surfaces exposed to view in the work areas; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- C. Clean equipment and fixtures. Clean/Replace filters of operating equipment.
- D. Clean debris from roofs, gutters, downspouts, and drainage systems.
- E. Clean site; sweep paved areas, rake clean landscaped surfaces.
- F. Remove waste and surplus materials, rubbish, and construction facilities from site.

1.4 STARTING OF SYSTEMS

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify County 2 days prior to start-up of each item.
- C. Verify tests, meter readings, and specified electrical characteristics agree with those required by equipment or system manufacturer.
- D. Verify wiring and support components for equipment are complete and tested.
- E. Execute start-up under supervision of applicable Contractors' personnel in accordance with manufacturers' instructions.
- F. Submit a written report in accordance with Section 01330 - Submittal Procedures that equipment or system has been properly installed and is functioning correctly.

1.5 DEMONSTRATION AND INSTRUCTIONS

- A. Demonstrate operation and maintenance of products to County's personnel two weeks prior to date of Substantial Completion.
- B. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with County's personnel in detail to explain all aspects of operation and maintenance.
- C. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time agreed time at equipment location.
- D. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.
- E. Required instruction time for each item of equipment and system is specified in individual sections.

1.6 TESTING, ADJUSTING AND BALANCING

- A. Not used.

1.7 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- D. Prohibit traffic from landscaped areas.

1.8 PROJECT RECORD DOCUMENTS

- A. Maintain on-site one set of the following record documents; record actual revisions to the Work:
 - 1. Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other modifications to the Contract.
 - 5. Reviewed Shop Drawings, Product Data, and Samples.
 - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by County.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress, not less than weekly.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and modifications.
- F. Record Drawings [and Shop Drawings]: Legibly mark each item to record actual construction including:
 - 1. Measured depths of foundations in relation to finish [first] [main] floor datum.
 - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - 4. Field changes of dimension and detail.
 - 5. Details not on original Contract drawings.
- G. Submit documents to County with claim for final Application for Payment.

1.9 OPERATION AND MAINTENANCE DATA

- A. Submit data bound in 8-1/2 x 11 inch (A4) text pages, three D side ring binders with durable covers.
- B. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project ...
- C. Internally subdivide binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
- D. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- E. Contents: Prepare Table of Contents for each volume, with each product or system description identified, typed on white paper, in three parts as follows:
 - 1. Part 1: Directory, listing names, addresses, and telephone numbers of Contractor, Subcontractors, and major equipment suppliers.
 - 2. Part 2: Operation and maintenance instructions, arranged by system. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
 - a. Significant design criteria.
 - b. List of equipment.
 - c. Parts list for each component.
 - d. Operating instructions.
 - e. Maintenance instructions for equipment and systems.
 - f. Maintenance instructions for finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
 - 3. Part 3: Project documents and certificates, including the following:
 - a. Shop drawings and product data.
 - b. Air and water balance reports.
 - c. Certificates.
 - d. Originals of warranties and bonds.

1.10 MANUAL FOR MATERIALS AND FINISHES

- A. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. County will review draft and return one copy with comments.
- B. For equipment, or component parts of equipment put into service during construction and operated by County, submit documents within ten days after acceptance.
- C. Submit one copy of completed volumes 15 days prior to final inspection. Draft copy will be reviewed and returned after final inspection, with County comments. Revise content of document sets as required prior to final submission.
- D. Submit two sets of revised final volumes in final form within 10 days after final inspection.

- E. Building Products, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations. Include information for re-ordering custom manufactured products.
- F. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- G. Additional Requirements: As specified in individual product specification sections.
- H. Include listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

1.11 MANUAL FOR EQUIPMENT AND SYSTEMS

- A. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. County will review draft and return one copy with comments.
- B. For equipment, or component parts of equipment put into service during construction and operated by County, submit documents within ten days after acceptance.
- C. Submit one copy of completed volumes 15 days prior to final inspection. Draft copy will be reviewed and returned after final inspection, with County comments. Revise content of document sets as required prior to final submission.
- D. Submit two sets of revised final volumes in final form within 10 days after final inspection.
- E. Each Item of Equipment and Each System: Include description of unit or system, and component parts. Identify function, normal operating characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and model number of replaceable parts.
- F. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and special operating instructions.
- G. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- H. Include servicing and lubrication schedule, and list of lubricants required.
- I. Include manufacturer's printed operation and maintenance instructions.
- J. Include sequence of operation by controls manufacturer.
- K. Include original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- L. Include control diagrams by controls manufacturer as installed.

- M. Include Contractor's coordination drawings, with color-coded piping diagrams as installed.
- N. Include charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
- O. Include list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- P. Include test and balancing reports as specified in Section 01400 - Quality Requirements.
- Q. Additional Requirements: As specified in individual product specification sections.
- R. Include listing in Table of Contents for design data, with tabbed dividers and space for insertion of data.

1.12 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Furnish spare parts, maintenance, and extra products in quantities specified in individual specification sections.
- B. Deliver to Project site and/or alternate site within Monterey County as directed by County Project Manager; obtain delivery receipt prior to final payment.

1.13 PRODUCT WARRANTIES AND PRODUCT BONDS

- A. Obtain warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers, within ten days after completion of applicable item of work.
- B. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.
- C. Verify documents are in proper form, contain full information, and are notarized.
- D. Co-execute submittals when required.
- E. Include Table of Contents and assemble in three D side ring binder with durable cover.
- F. Submit prior to final Application for Payment.
- G. Time Of Submittals:
 - 1. For equipment or component parts of equipment put into service during construction with County's permission, submit documents within ten days after acceptance.
 - 2. Make other submittals within ten days after Date of Substantial Completion, prior to final Application for Payment.
 - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing date of acceptance as beginning of warranty or bond period.

1.14 MAINTENANCE SERVICE

- A. Furnish service and maintenance of components indicated in specification sections.
- B. Examine system components at frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by manufacturer of original component.
- D. Do not assign or transfer maintenance service to agent or Subcontractor without prior written consent of County.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

**SECTION 024119.13
SELECTIVE BUILDING DEMOLITION
(Roof Demolition)**

PART I – GENERAL

1.01 SCOPE OF WORK:

- A. Remove and dispose of existing built-up roofing system, insulation and all associated base flashings and metal projection and perimeter flashings.
- B. Remove and dispose of existing traffic bearing waterproofing system and associated flashings.
- C. Comply with owner recommendations for setup of debris chutes and dumpsters.
- D. Protect adjacent surfaces from damage during removal.
- E. Where specified, remove and dispose of existing rooftop equipment not in use. Check with owner to verify what equipment is to be removed.
- F. All hazardous waste shall be removed in accordance with all Local, State, Federal, and Owner requirements. Hazardous waste removal is not part of this section. Refer to section 02 82 00 Asbestos Remediation and section 028300 Lead Remediation.

1.02 GENERAL:

- A. During all phases of work, contractor shall comply with all applicable sections of the State of California Code of Regulation (CCR), Industrial Safety Orders (Title 8), as well as Federal and State of California Occupational Safety and Health Administration (OSHA) regulations, including the Hazardous Waste Operations and Emergency Response Regulation (Title 8, Section 5192 and 29 CFR 1910.120).
- B. All project staging shall have the approval of the Owner's Representative.

PART 2 – PRODUCTS

NONE

PART 3 – EXECUTION

3.01 EXAMINATION:

- A. Survey existing conditions to determine extent of demolition required.

- B. Arrange operations to reveal concealed structural conditions for examination and verification before removal or demolition.
- C. Verify actual conditions to determine whether removal or demolition will result in structural deficiency, overloading, failure or unplanned collapse.
- D. Items to remain shall be protected against damage during the demolition operations.
- E. Demolish and remove existing construction only to the extent required by the new construction and as indicated.
- F. Perform selective demolition using methods which are least likely to damage work to remain and which provide proper surfaces for patching.
- G. Promptly remove all debris to avoid excessive loads on supporting walls, floors, and framing.
- H. Remove debris from Owner property on a daily basis to a legal disposal site.

3.02 UNIDENTIFIED MATERIALS:

- A. If the contractor in the course of normal inspections identifies any unidentified items, including materials that may contain asbestos or any other potentially hazardous substances that will (or may) require additional demolition and removal other than as required by the this contract, the contractor shall immediately report to the project engineer.
- B. The Owner will arrange for necessary testing and analysis of unidentified materials and will provide instructions to the contractor regarding the removal, handling, storage, transport and disposal of the materials.

3.03 DUST CONTROL:

- A. Accomplish demolition and removal with the minimum accumulation of dust and debris.
- B. Work shall proceed in such a manner as to minimize the spread of dust and flying debris.

3.04 PROTECTION:

- A. Provide for the protection of persons passing around and through the area of demolition.
- B. Provide protective measures to ensure free and safe passage of persons to and from occupied areas.

- C. Execute demolition work in a manner that will ensure the safety of adjacent property and persons occupying such property against any damages or injuries which might occur from falling debris, unprotected excavations, holes, voids, etc. Airborne residue or other causes; and so as not to interfere with the use of adjacent public and private property of the free and safe passage to and from the same.
- D. Take all necessary precautions to prevent damage to any existing construction scheduled to remain, whether located on the site or on adjacent property.
- E. Protect existing walls, floors and other new or existing work including finishes from damage during the demolition process.
- F. Any item damaged or disturbed which was required to remain in place shall be replaced, repaired, or reset to the satisfaction of the Owner's Representative at no cost to the Owner.
- G. Contractor shall monitor weather predictions and cease work when rain or heavy fog is forecast.

3.05 DISPOSAL:

- A. Disposal facilities shall be in compliance with all federal and state regulations. Applicable regional and local laws, rules and regulations shall be those of the government or quasi-governmental agencies, or other entities having jurisdiction at the disposal facility.
- B. Disposal of any material as non-hazardous waste shall not relieve the contractor from complying with the requirements of the contract documents and the requirements of all federal, state, regional and local laws, rules, and regulations regarding the removal and transport of materials as specified.

3.06 CLEANUP:

- A. Inspect existing surfaces or structures adjacent to demolition and removal operations, including surfaces or structures on adjacent public or private property for damage and stains. Repair or clean existing surfaces or structures not indicated to be removed including surfaces or structures on adjacent public or private property prior to the completion of the work at no additional cost.
- B. Keep the project site clear of all debris resulting from demolition and removals operations and remove all debris from the site on a daily basis during the progress of the work. The cost of removal, hauling, and dumping shall be borne by the contractor.

3.07 UTILITY SERVICES:

- A. Maintain existing utilities, keep in service and protect against damage during demolition operations.
- B. Do not interrupt existing utilities servicing occupied or used facilities, except when authorized in writing by Owner's Representative. Provide temporary services during interruptions to existing utilities as acceptable to owner.

END OF SECTION

SECTION 02 82 00 ASBESTOS REMEDIATION

PART 1 GENERAL

1.1 SECTION CONTENTS

- A. This section specifies the methods, procedures, and requirements related to the removal and disposal of the asbestos-containing materials (ACM) including, but not limited to:
1. Regulatory requirements
 2. Submittals
 3. Personal protective measures
 4. Execution
 5. Inspections
 6. Waste handling and disposal
 7. See test results for roofing felts and repair mastic at the end of this section.

1.2 SCOPE OF WORK

- A. This section applies to the County of Monterey Juvenile Hall Gymnasium Roof Project in which asbestos-containing materials will be disturbed. Skyline Engineering conducted limited bulk sampling of various roofing materials suspected to be Asbestos Containing Material. Refer to the test results at the end of this section. If additional materials are to be disturbed or if suspect asbestos-containing materials that were not tested will be disturbed, the Contractor will be responsible for treating those materials as asbestos-containing unless testing by the Contractor proves otherwise. The Contractor will be responsible for complying with this section in the handling and disposal of this ACM. The building components that were found to be asbestos-containing are listed below:

1. Juvenile Hall Gymnasium Main Roof Level:
 - a. All roofing felts – field and base flashings
 2. Juvenile Hall Gymnasium Lower Roof Level:
 - a. All roofing felts – field and base flashings
- B. In accordance with all drawings, specifications and instructions, the Contractor shall furnish all labor, transportation, materials, supervision, equipment, insurance, taxes, overhead and all other items of expense or services necessary for the removal and disposal of the subject ACM.
- C. Briefly, and without force and effect upon the contract documents, the work of the Contract can be summarized as follows:
1. Remove the impacted sections of identified or assumed ACM as necessary for completing the reroofing construction activities.
 2. Removal of ACM shall follow the requirements as indicated in these specifications, including and not limited to submittals, training, work practice, and air monitoring.
- D. Before submitting a proposal, bidding contractors should carefully examine the drawing(s) and specifications, visit the site(s), fully inform themselves as to all existing conditions, and limitations and shall include in the proposal a sum to cover the cost of all items included in the Contract. It shall be the responsibility of the Contractor to examine the sites, to measure asbestos-containing materials, to be familiar with these plans and specifications for the work contemplated, and to thoroughly acquaint himself with the physical conditions to be encountered. Should the bidding contractor find discrepancies in or omissions from the drawings or Contract documents, or should clarification be needed, the bidding contractor shall notify the Owner who may send written instructions to all bidders.

1.3 REGULATIONS

- A. General Applicability of Codes, Regulations, and Standards:
Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

- B. Federal Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

Code of Federal Regulations (CFR)

29 CFR Part 1910, Section 1001

29 CFR Part 1910, Section 134, Respiratory Protection

29 CFR Part 1926.1101, Asbestos Construction Standard

29 CFR Part 1910, Section 20, Access to Employee Exposure & Medical Records

29 CFR Part 1910, Section 1200, Hazard Communication

29 CFR Part 1910, Section 145, Specifications for Accident Prevention Signs and Tags

40 CFR Part 763, Subpart G, CPTS 62044, FLR 2843-9

Federal Register, Vol. 50, No. 134, 7/12/85, Worker Protection Rule

40 CFR Part 61, Sub-part A, Regulation for Asbestos

40 CFR Part 61, Appendix A to Subpart M (Revised Subpart B) National Emission Standard for Asbestos

40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA)

49 CFR Parts 171 and 172, Hazardous Substances: Final Rule

- C. State and Local Regulations: Abide by all state and local regulations which govern asbestos abatement work or hauling and disposal of asbestos waste materials including but not limited to:

Monterey Bay Unified Air Pollution Control District (MBUAPCD) Regulations.

California Department of Occupational Safety and Health (Cal/OSHA) – Asbestos Standard For The Construction Industry, Title 8, California Code of Regulations section 1529, et. seq. (8 CCR 1529).

California Health and Safety Code sections 24914 (Hazardous Substance Removal Contracts); 25915, et. seq. (Asbestos Notification Act); and 19827.5 (Demolition Permits).

California Labor Code sections 6501.5 (Employer Registration); and 6501.9 (Determining the Presence of Asbestos Prior to Contracting for Work).

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop. 65).

Applicability: The most current version of the above regulations shall apply. Where conflict among requirements or with these specifications exists, the more strict or stringent requirement or interpretation shall apply.

- D. This work shall be "classified" as described in 8 CCR Section 1529, as follows.
1. Removal of ACM roofing felts shall be classified as Class II work.
 2. Any other asbestos-containing materials shall be classified in accordance with 8 CCR 1529.

1.4 DEFINITIONS

- A. General: Definitions contained in this Section are not necessarily complete, but are general to the extent that they are not defined more explicitly elsewhere in the Contract Documents.
1. ABATEMENT: Procedure to control fiber release from asbestos-containing building materials.
 - a. Removal - All herein specified procedures necessary to remove asbestos-containing materials from building surfaces and structures.
 - b. Clean-up - All herein specified procedures necessary to clean asbestos-containing material or asbestos-contaminated debris from building surfaces or structures.
 - c. Post-Removal Surface Encapsulation - All herein specified procedures necessary to coat building surfaces and structures

from which asbestos-containing materials have been removed to control any residual fiber release.

- d. Abatement Activities - Any activity which disturbs or has the potential to disturb any asbestos-containing material. This includes, but is not limited to, the following activities: pre-cleaning, installing polyethylene, ACM removal, encapsulation, and enclosure.
2. **ACBM OR ACM:** Asbestos-containing building materials or asbestos containing materials.
3. **AIR LOCK:** A system for permitting ingress or egress without permitting air movement from a contaminated area into an uncontaminated area.
4. **AIR MONITORING/AIR SAMPLING:** The process of measuring the fiber content of a specific volume of air in a stated period of time. When "aggressive" air sampling is specified, blowers and fans are used to disperse settled fibers into the air during sampling.
5. **AMENDED WATER:** Water to which a surfactant has been added to reduce water surface tension and thereby provide a more rapid penetration.
6. **AUTHORIZED VISITOR:** Environmental Consultant, Owner's personnel or a representative of any regulatory or other agency having jurisdiction over the project.
7. **BARRIER:** Any surface which inhibits air and fiber movement from the work areas. This can be comprised of one or a combination of several materials, including but not limited to plywood, polyethylene sheeting, duct tape and spray-poly. A critical barrier is one which seals any opening (such as doorways, vents, window, penetrations) between the work area and non-work area.
8. **CONTAINMENT AREA:** An asbestos removal area which is sealed by critical barriers and fully enclosed with polyethylene sheeting. Workers enter/exit the containment area through a decontamination enclosure system.
9. **CURTAINED DOORWAY:** Device to allow ingress or egress from one

room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of opaque 6-mil polyethylene over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway.

10. **DECONTAMINATION ENCLOSURE SYSTEM:** A series of connected rooms, with air locks between any two adjacent rooms, for the decontamination of workers and/or materials and equipment, constructed or moved onto site.
11. **EQUIPMENT DECONTAMINATION UNIT:** Decontamination enclosure system for materials and equipment, typically consisting of a designated area of the work area (wash-down station), a washroom, a holding room, a container room, and an uncontaminated area.
12. **FIXED OBJECT:** A unit of equipment or furniture in the work area which cannot be removed from the work area without dismantling.
13. **HEPA FILTER:** A high efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97% of particles greater than 0.3 microns in diameter.
14. **HEPA VACUUM EQUIPMENT:** Vacuuming equipment with a HEPA filter capable of collecting and retaining asbestos materials/fibers.
15. **MINI-CONTAINMENT:** A mini-containment area provides an airtight enclosure around a high-hazard work area that is of limited size (for example a mini-containment may contain a 1'x1' area of SAAM to be removed).
16. **NEGATIVE AIR PRESSURE EQUIPMENT/EXHAUST AIR FILTRATION SYSTEM:** A local ventilation system, capable of maintaining a relative negative pressure throughout the containment area by providing a constant air flow from the containment area, through HEPA filters, to the area outside the building.
17. **NEGATIVE EXPOSURE ASSESSMENT INITAIL:** As stated in 29 CFR 1926.1101, "means a demonstration by the employer which complies with the criteria in paragraph (f) (2) (iii) of this section, that

employee exposure during an operation is expected to be consistently below PEL's.

18. NIOSH: National Institute for Occupational Safety and Health.
19. OWNER: Owner and/or Owner-authorized representative.
20. OWNERS REPRESENTATIVE or ENVIRONMENTAL CONSULTANT: The Environmental Consultant is Skyline Engineering, Inc. The Environmental Consultant will represent the Owner on issues relating to the project design and the scope of work as defined by this specification.
21. PERSONNEL DECONTAMINATION UNIT: A series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers and of materials and equipment. A decontamination enclosure system always contains at least one airlock. A three stage decontamination unit consists of an equipment room, a shower, and a clean room.
 - a. Equipment Room: A contaminated area or room within the personnel decontamination unit with provisions for storage of contaminated clothing and equipment.
 - b. Shower Room: A room between the equipment room and the clean room with hot and cold running water suitably arranged for complete showering during decontamination.
 - c. Clean Room: An uncontaminated area or room which is part of the personnel decontamination unit with provisions for storage of workers' street clothes and protective equipment.
22. PLASTICIZING: Procedures necessary using polyethylene sheeting, adhesives, and/or taping to create an airtight work area.
23. POST REMOVAL ENCAPSULANT: A liquid substance which can be applied to surfaces from which asbestos-containing materials have been removed to control the possible release of residual asbestos fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating into and binding the material (penetrating encapsulant).

24. SURFACTANT: A chemical wetting agent added to water to decrease the surface tension, thus improving the water's penetration into porous materials and in effect reducing the quantity of water required for wetting operations.
25. WET CLEANING/WIPING: The process of eliminating contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water. Cleaning materials and non-reusable tools are disposed of as asbestos contaminated waste.

1.5 SUBMITTALS AND NOTICES

A. Pre-Job Submittals and Notices

1. Contractor shall make all required notifications to the appropriate Government Regulatory Agencies prior to beginning work. At least three days prior to commencing work, submit two copies of all notifications to the Owner.
2. At least three days prior to commencing work the Contractor shall submit to the Owner two (2) copies of the training, medical, and respiratory fit-testing documentation, described below, for each supervisor and worker who will be on-site for this project.
3. Contractor shall use only workers medically qualified and trained for asbestos work and respirator usage. Contractor shall submit statement from examining physician that each employee is fit to wear a respirator in accordance with 8 CCR Section 1529 within the last twelve months.
4. The asbestos training shall comply with 8 CCR Section 1529.
5. The Contractor shall provide the procedure he will employ for handling, packaging, transporting, and disposing of asbestos waste. These procedures must meet the requirements of 40 CFR, Part 61 subparts A and M.
6. Three days prior to commencing work the Contractor shall submit to Owner names and qualifications of each party responsible for transporting, storing, treating and disposing of asbestos waste. Include the facility location and a twenty four hour point of contact.

Furnish two (2) copies of federal, state and local permit applications, permits and corresponding identification numbers.

7. The Contractor shall provide an abatement plan with methods and procedures covering each of the identifiable materials and abatement areas, including waste handling/disposal procedures.

B. Post-Job Submittals and Notices

Upon completion of the work, and prior to final payment, the Contractor will prepare a report and submit it to the Owner. The report shall contain:

1. A copy of all notifications to or permits received from Federal, State, and local agencies for this project.
2. Waste Disposal Records, including signed manifests and receipts with certified weight.
3. A copy of the log maintained at the job site throughout the work.
4. Copies of all personal air monitoring results performed by the Contractor, including the location and credentials of the laboratory performing the analysis.
5. The name, title and signature of the person who prepared the report.
6. The report shall contain a statement certifying that the work has been completed in accordance with the project specifications.

1.6 ENVIRONMENTAL CONSULTANT

- A. The Owner has authorized Skyline Engineering to be the Environmental Consultant for the project. Skyline will advise the Owner on all matters relating to the work performed involving the asbestos removal in accordance with these specifications. Skyline will provide the following services including, but not limited to:

1. Visual observations to verify Contractor's compliance with the specifications, as well as applicable regulations, regarding hazard control measures, and related decontamination procedures. The Environmental Consultant will have complete access to all asbestos work areas during the project in order to perform these site visits.

2. Visual inspections for asbestos contamination to determine whether Contractor has successfully completed clean-up and met the project decontamination criteria. The Environmental Consultant will be notified by the Contractor one day prior to the need for final inspection.
 3. Interpretation of technical sections of the contract documents, and coordination with the Owner and Contractor for enforcement of regulatory and contractual conformance, including stop work issues.
 4. Stop work orders will be made jointly by the Environmental Consultant and the Owner under the following instances including but not limited to:
 - a. Nonconformance with these specifications.
 - b. A health hazard or safety risk exists to the workers, Owner's employees, Environmental Consultant, or the public.
- B. The cost of the Environmental Consultant will generally be the responsibility of the Owner except under special circumstances. The Contractor shall be responsible for the cost of the Environmental Consultant for services performed when: a) The Contractor's Work Area fails final clearance inspection and/or testing; or b) additional workdays or workday hours (overtime) are required by the Contractor; or c) The Contractor exceeds the allowable time frame for completion; or d) additional services associated with response to an uncontrolled, unauthorized release to the environment as a result of the Contractor's performance of the work.

1.7 CONTRACTOR QUALIFICATIONS

- A. General Superintendent: Provide a General Superintendent whenever Contractor's personnel are on site who is experienced in administration and supervision of asbestos abatement projects including work practices, protective measures for building and personnel, disposal procedures, etc. This person is the Contractor's Representative responsible for compliance with all applicable federal, state and local regulations, particularly those relating to asbestos-containing materials.

Experience and Training: The General Superintendent and all workers must have completed a course at an AHERA accredited Asbestos Abatement training provider and have had on-the-job training in asbestos abatement

procedures. Submit documentation for each worker per section 1.05. Each supervisor and worker shall have in his/her possession at all times a current Cal/OSHA certification.

- B. Contractor shall use only workers medically qualified and trained for asbestos work and respirator usage.
- C. The asbestos training shall comply with 8 CCR Section 1529.

PART 2 PRODUCTS

2.1 PROTECTIVE COVERING

- A. Polyethylene sheets, of 6 mil thickness, in dimensions of adequate width to minimize frequency of joints. Polyethylene sheeting shall be flame retardant.

2.2 TAPE

- A. Duct tape, two inches or wider, capable of sealing joints of adjacent sheets of plastic sheeting or for attachment of plastic sheeting to finished or unfinished surfaces.

2.3 DISPOSAL CONTAINERS

- A. Provide non-opaque 6-mil thick polyethylene sheeting, non-opaque 6 mil leak-tight polyethylene bags and other impervious containers as required by applicable regulations. All waste shall be labeled as potentially hazardous waste unless proven otherwise by appropriate sampling and laboratory analysis.
- B. All hazardous waste shipping containers shall meet applicable DOT requirements.
- C. Spray adhesive used to seal the polyethylene bags shall not contain methylene chloride compounds.

2.4 PERSONAL PROTECTIVE EQUIPMENT

- A. Workers shall wear full body disposable suits with hoods and separate booties, tape around ankles, wrists, under arms and neck. Suits will be worn inside the work area after the area passes pre-abatement inspection and

shall remain in use until the area passes final clearance inspection.

- B. Goggles with side shields will be worn when working with a material that may splash or fragment, or if protective eye wear is specified on the Material Safety Data Sheets (MSDS) for that product.
- C. Additional respiratory protection by supplemental filters, such as organic vapor cartridges, may be needed when handling some coating products. Consult the MSDS and obtain the proper filters as necessary. Contractor shall wear appropriate respiratory protection as outlined in 8 CCR Section 1529.
- D. In addition, all Cal/OSHA requirements, such as hard hats, hearing protection, etc. are required.

2.5 TOOLS AND EQUIPMENT

- A. Provide suitable tools for the decontamination and removal of asbestos-containing materials including required HEPA vacuums and exhaust units, airless sprayers, ground fault interrupters, hand tools, wipes, ladders, and scaffolds. Mechanical abrasion tools shall be equipped with local HEPA exhaust and subject to approval by the Environmental Consultant. All tools and equipment brought on site shall be clean and free of contamination from asbestos and other hazardous materials. HEPA filtered equipment shall be labeled with a warning label and dedicated to asbestos work to prevent combining hazardous wastes of differing characteristics.
- B. Provide adequate support equipment, including, but not limited to lumber, hardware, hand washing facilities, sprayers, hoses, miscellaneous collection devices, and secured holding facilities.

PART 3 EXECUTION

3.1 GENERAL

- A. The purpose of the Asbestos Construction Standard is to provide a level of protection to workers exposed to asbestos fibers. As a result, all activities which will entail disturbing asbestos-containing materials will be performed in accordance with the following work practices.

3.2 WORKER SAFETY/DECONTAMINATION PROCEDURES

The intent of the work is to replace the roofs of the Juvenile Hall Gymnasium in Salinas. Due to the presence of asbestos in both roof levels, the ACM must be removed prior to performing the reroofing work. Based on the type of ACM that will need to be removed, ACM abatement work shall be performed as Class II work in accordance with 8 CCR Section 1529.

- A. Prior to commencement of work, the workers shall be instructed and shall be knowledgeable on the hazards of asbestos exposure, use and fitting of respirators, protective clothing, decontamination procedures and all aspects of asbestos work procedures; workers shall have medical examinations.
- B. The Contractor acknowledges that he alone is responsible for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard for each phase of operation.
- C. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and accepted by OSHA. All removal work is to be performed in accordance to 8 CCR Section 1529.
- D. If the Contractor uses Type "C" air supplied respirators, they shall be pressure demand full face respirators.
 - 1. Air supply for Type "C" shall be, at minimum, grade "D" in compliance with OSHA 1910.134. The Contractor shall provide sampling and testing of air in the presence of Owner if requested to do so.
 - 2. Air supply for Type "C" removal operations shall be a positive pressure, externally supplied, compressed air system, incorporating enough high-pressure automatic air storage within an ASME certified air "bank" to provide each individual on line in the work area with sufficient air supply for decontamination in the event of a system failure.
 - 3. The compressed air system for removal workers shall incorporate a calibration of CO alarm, compressor failure alarm, high temperature alarm, a continuous carbon monoxide monitoring device, and in-line purifying sorbent beds and filters to deliver air free of water, oil, odors, vapors, and particulates. Contractor shall comply with all applicable codes and regulations that apply to the operation of such system. Contractor shall submit documentation to the Owner which certifies

that CO monitor and alarm devices have been calibrated and tested.

E. WHERE NOT IN CONFLICT WITH NIOSH AND OSHA REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE AT A MINIMUM, THE FOLLOWING RESPIRATOR PROTECTION FOR EACH PHASE OF OPERATION, UNLESS OTHERWISE APPROVED BY OWNER:

1. Pre-cleaning/Wet-Wiping of Area: NIOSH certified half-face air purifying respirators equipped with HEPA cartridges.
 2. Plastic Sheet Installation: NIOSH certified half-face air purifying respirators equipped with HEPA cartridges.
 3. Asbestos Removal and Clean-up: In accordance with those requirements stated in 8 CCR Section 1529.
 4. Loading Waste Material on Truck: (outside work area): NIOSH certified half-face air-purifying respirators equipped with HEPA cartridges.
- F. No visitors shall be allowed in the work area, except as authorized by Owner. Provide authorized visitors with suitable respirators with fresh cartridges, depending on phase of operation, whenever they are required to enter the work area, to a maximum of two per day.
- G. If the Contractor uses Type "C" air supplied respirators, one open airline shall be maintained as an emergency reserve at all times. Removal of a worker to provide this line will not be acceptable.
- H. Provide workers with sufficient sets of disposable Tyvek protective full body clothing or equivalent. Such clothing shall consist of full body coveralls, footwear and headgear or one-piece coveralls. Provide eye protection and hard hats as required by applicable safety regulations. Reusable type protective clothing and footwear intended for reuse shall be left in the Contaminated Equipment Room until the end of the asbestos abatement work at which time such items shall be disposed of as asbestos-contaminated waste. Disposable clothing shall not be allowed to accumulate and shall be disposed of as asbestos-contaminated waste.
- I. Provide authorized visitors with suitable protective clothing, headgear, footwear, and gloves as described above whenever they are required to enter the work area.

3.3 GENERAL REMOVAL PROCEDURES

A. SIGNAGE

1. Post signs in and around the project area as required to comply with OSHA regulation 8 CCR Section 1529 and all other Federal, State, and local regulations.
2. Place caution tape and construction signs around the perimeter or at access to the project area as appropriate to keep out unauthorized personnel.

B. WORK AREA PREPARATION

1. Removal of roofing felts as Class II work.
 - a. Before commencing with setup, contractor shall have specifications and project plans on-site, area will be secured with asbestos warning signs per OSHA regulation 29 CFR 1926.1101, and barrier tape to the Owner's satisfaction.
 - b. Define the work area using caution tape or other physical barriers.
 - c. Remove from the work area all movable items such as tools, equipment, and miscellaneous items and store in area designated by the Owner or the Environmental Consultant.
 - d. Seal with a minimum of 6-mil plastic sheeting and tape all vents, HVAC ports, windows, and other penetrations within the work area or downwind of the work area.
 - e. Employees shall don appropriate personal protective equipment as stated in Section 3.02.
 - f. Install poly-sheeting drop cloth below or adjacent to the area to be abated.

C. REMOVAL OPERATIONS

1. Removal of ACM as Class II work.
 - a. Do not use a power saw or other high speed power tools to cut or remove ACM.
 - b. Before removal, apply sufficient amended water to the surface to minimize release of fibers.
 - c. Continually wet material with amended water throughout the removal.
 - d. Bag all asbestos waste promptly as they are being generated. Asbestos waste must be bagged at roof level.
 - e. Debris not wrapped or bagged shall immediately be placed in dust-tight containers or impervious waste bags at roof level.
 - f. Bagged or wrapped debris will not be thrown to ground level – it must be hoisted or lowered by hand.
 - g. Clean area using HEPA vacuum and wet wiping.
 - h. Dispose of ACM debris and all plastic sheeting (critical barriers, mini-enclosure, etc.) as hazardous asbestos waste.

3.4 INSPECTION PROCEDURE/WORK AREA CLEARANCE

- A. A visual inspection may be performed by the Environmental Consultant following abatement in order to determine the presence of any remaining asbestos-containing material debris.
- B. Air clearance samples may be collected from the work areas. If air samples are collected by the Environmental Consultant, the clearance level is 0.01f/cc, which is based on the AHERA PCM clearance level.
- C. If the work area is not visibly clean or if air sample results indicate work area is not adequately clean, the Contractor will re-clean using HEPA vacuums and wet wiping. Additional air samples will be collected after re-cleaning and subject to same clearance levels stated in Section 3.4(B). Contractor shall bear all additional costs due to failure of visual and/or air clearance testing.

- D. The contractor shall be released only after all work areas have been cleared according to the above criteria and accepted by the Owner.

3.5 WASTE DISPOSAL/STORAGE

- A. All disposal of asbestos containing, asbestos contaminated, and/or non-hazardous waste will be coordinated and paid for by Contractor.
- B. All ACM shall be disposed of as friable ACM waste.
- C. All ACM roofing materials shall be disposed of as non-friable ACM waste if these ACM are not rendered friable during the abatement.
- D. Separate waste bins/containers shall be provided by Contractor for the different waste categories (friable ACM and non-friable ACM waste). The Contractor shall line the bin with a minimum of 6-mil plastic sheeting on the floor and sides of the bin sealed so as to provide a water-tight membrane.
- E. Affix proper labels per EPA and OSHA requirements. Contractor shall provide appropriate generator waste labels. Contractor shall maintain a running and final count of containers deposited into each waste bin.
- F. Each waste load must be accompanied by an Asbestos Waste Manifest and any other certificate required by state or local agencies. Copies of all Asbestos Waste Manifests shall be provided to the Owner.
- G. The Contractor shall be responsible for the safe handling and transportation of all waste generated by this contract to the designated waste disposal sites. The Contractor shall bear all costs for all claims, damages, losses and expenses against the Owner or the Environmental Consultants, including but not limited to attorney's fees arising out of or resulting from spills en route to the waste disposal site.

3.6 STOP WORK ORDERS

- A. The Owner and/or the Environmental Consultant has the authority to stop work if it is determined that conditions or procedures are not in compliance with the Work Plan and/or applicable regulations; the Contractor is deficient in providing required submittals; the waste is not securely stored; or a potential release of asbestos fibers to outside the Work Area is imminent based on the Owner's and/or the Environmental Consultant's judgment.

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- B. The work stoppage shall remain in effect until conditions have been corrected and corrective measures have been taken to the satisfaction of the Owner's and/or the Environmental Consultant.

-END OF SECTION-

SECTION 02 83 00 LEAD REMEDIATION

PART 1 GENERAL

1.1 SECTION CONTENTS

- A. This section specifies the methods, procedures, and requirements related to the removal and disposal of lead-containing paint including, but not limited to:
1. Regulatory requirements
 2. Submittals
 3. Personal protective measures
 4. Execution
 5. Inspections
 6. Waste handling and disposal
 7. See test results for paint at the end of this section.

1.2 SCOPE OF WORK

- A. This section applies to the County of Monterey Juvenile Hall Gymnasium Roof Project in which lead-containing materials will be disturbed. Skyline Engineering conducted limited paint chip sampling from various painted building components at the site location. A total of three paint chip samples were collected with all of the paint chip samples being identified as having a detectable concentration of lead. Refer to the test results at the end of this section. If additional materials are to be disturbed or if suspect lead-containing materials that were not tested will be disturbed, the Contractor will be responsible for treating those materials as lead-containing unless testing by the Contractor proves otherwise. The Contractor will be responsible for complying with this section in the handling and disposal of this lead containing paint. The painted building components that were found to be lead-containing are listed below:

1. Juvenile Hall Gymnasium Main Roof Level:
 - a. Metal edge flashing – green coating
 2. Juvenile Hall Gymnasium Lower Roof Level:
 - a. Metal wall flashing – green coating
 - b. Metal drain channel – orange coating
- B. In accordance with all drawings, specifications and instructions, the Contractor shall furnish all labor, transportation, materials, supervision, equipment, insurance, taxes, overhead and all other items of expense, or services necessary for the removal and disposal, or encapsulating, of designated building components, or any other building components coated with lead-containing paint necessary for completing the replacement of the Roofs at the Juvenile Hall Gymnasium Project. These components will be either removed and disposed, or encapsulated as directed in this contract document or on the contract drawings.
- C. Briefly, and without force and effect upon the contract documents, the work of the Contract can be summarized as follows:
1. The removal and disposal of the green paint coated edge flashing found on the main roof level.
 2. The removal and disposal of the green paint coated wall flashings on the lower roof level.
 3. The removal and disposal of the orange paint coated drain channel flashings on the lower roof level.
 4. The removal and disposal of any and all coated flashings or roof penetrations on the main or lower roof level.

1.3 POTENTIAL LEAD HAZARD

- A. The disturbance of building materials coated with lead containing paint may cause lead contaminated dust to be released in to the environment, thereby creating a potential health hazard to workers and occupants. Ingestion or inhalation of lead contaminated dust can cause various health concerns,

including but not limited to nausea, anemia, vomiting, kidney disease, nervous system disorders, and reproductive problems. All contractors, sub-contractors, consultants, and other occupants in the vicinity of a potential lead hazard should be apprised, by the responsible parties and applicable warning signs per OSHA requirements cited herein.

- B. Significant lead exposure may result from activities such as demolition of components, scraping, sanding, or grinding lead-based paint, abrasive blasting of surface coatings, welding, torch cutting, or related procedures. Where in performance of the work specified herein, a lead exposure is potential, strict adherence to the measures and procedures of these specifications shall be mandatory.

1.4 REGULATIONS

- A. The Contractor shall comply with the requirements of the following regulations and guidelines governing lead removal and disposal, as well as other applicable federal, state, and local government regulations. The regulations and/or guidelines listed herein are incorporated by reference.

Code of Federal Regulations (CFR)

29 CFR 1910.1025

29 CFR 1926, Construction Standards

29 CFR 1926.62, Lead in Construction Standard

40 CFR Part 50.12, Ambient Air Quality Standard for Lead

40 CFR Parts 261, 265, and 268, Hazardous Waste Management

49 CFR Parts 172, 173, 178, 179, Hazardous Material Transportation

California Code of Regulations (CCR)

8 CCR Division 1, Chapter 4, Subchapter 4, Construction Safety Orders

8 CCR 1532.1, Lead in Construction Standard

8 CCR 5144, Respiratory Protection

22 CCR Divisions 4 and 4.5, Hazardous Waste

1.5 DEFINITIONS

- A. General: Definitions contained in this Section are not necessarily complete, but are general to the extent that they are not defined more explicitly elsewhere in the Contract Documents.

1. Abatement: means the removal or covering of paint, plaster or other

material containing lead-based paint from interior or exterior surfaces.

2. **Action Level:** An airborne concentration of 30 micrograms per cubic meter ($30\mu\text{g}/\text{m}^3$) of air as an eight (8) hour time weighted average (TWA) as covered by OSHA regulations 29 CFR 1926.62 and Cal/OSHA Title 8, Section 1532.1.
3. **Air Monitoring:** The process of measuring the lead levels of a specific volume of air.
4. **Authorized Visitor:** The Owner, testing lab personnel, or a representative of any federal, state and local regulatory or other agency having authority over the project.
5. **Breathing Zone:** A hemisphere forward of the shoulders with a radius of approximately 6 inches to 9 inches.
6. **Certified Industrial Hygienist (C.I.H.):** A person certified by the American Board of Industrial Hygiene and qualified by training and/or experience to specify measures for the recognition, evaluation, and control of occupational health hazards.
7. **Construction Barrier:** Demarcation of the work area limiting access by unauthorized personnel.
8. **Disposal Bag:** A 6mil thick leak-tight plastic bag used for transporting lead waste from work area to disposal site.
9. **Elevated Blood Lead Level:** Means a blood lead concentration equal to or greater than twenty-five (25) micrograms per deciliter ($\mu\text{g}/\text{dl}$).
10. **Encapsulation:** Involves resurfacing or covering surfaces, and sealing or caulking with durable materials, so as to prevent or control chalking, flaking lead-containing substances from entering the environment.
11. **Enclosure:** The construction of an air-tight, impermeable, permanent barrier around lead-containing material to control the release of lead dust into the air.
12. **Filter:** A media component used in respirators to remove solid or

liquid particles from the inspired air.

13. Final Inspection: Inspection by a qualified inspector, industrial hygienist, or local public health official to determine whether removal and cleanup are complete.
14. Hazardous Waste: As defined in Resource Conservation Recovery Act (RCRA) the term "hazardous waste" means a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed. In addition, Hazardous Waste also refers to waste as described by the California Department of Toxics and Substance Control (Title 22).
15. HEPA Filter: A High Efficiency Particulate Air filter capable of trapping and retaining 99.97% of particles greater than 0.3 microns in diameter.
16. HEPA Filter Vacuum Collection Equipment (or vacuum cleaner): High Efficiency Particulate Air (absolute) filtered vacuum collection equipment with a filter system capable of collecting and retaining 99.97% of particles of 0.3 microns in diameter or larger.
17. High Phosphate Detergent: Detergent which contains at least 5% tri-sodium phosphate (TSP).
18. Lead-Based Paint: Surface coatings containing greater than the Consumer Product Safety Commission maximum concentration of 600 ppm (0.06% by weight).
19. Lead-Containing Paint: Surface coatings containing detectable levels of lead as regulated under the Cal/OSHA Lead in Construction Standard, 8 CCR 1532.1.
20. Lead Permissible Exposure Limit (PEL): The employer shall ensure that no employee is exposed to an airborne concentration of lead in excess of 50 micrograms per cubic meter ($50\text{ug}/\text{m}^3$) of air as an eight

(8) hour time weighted average (TWA) as covered by OSHA regulations 29 CFR 1926.62 and Cal/OSHA Title 8, Section 1532.1.

21. Negative Pressure: Air pressure lower than surrounding areas, generally caused by exhausting air from a sealed space (work area).
22. Negative Pressure Respirator: A respirator in which the air pressure inside the respiratory-inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air pressure of the outside atmosphere. Negative pressure respirators include all powered-air purifying respirators (PAPRs)
23. Negative Pressure Ventilation System: A local exhaust system utilizing HEPA filtration capable of maintaining a negative pressure inside the work area and a constant air flow from adjacent areas into the work area and exhausting that air outside the work area.
24. Owner Representative or Environmental Consultant: The Environmental Consultant is Skyline Engineering, Inc. The Environmental Consultant will represent the Owner on issues relating to the project design and the scope of work as defined by this specification.
25. Personal Monitoring: Sampling of lead concentrations within the breathing zone of an employee.
26. Replacement: Means removing components that have lead-painted surfaces, or are considered lead-contaminated and installing new components free of lead-containing paint.
27. Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.
28. RCRA: Resource Conservation and Recovery Act of 1976. RCRA is an amendment to the Solid Waste Disposal Act of 1965. RCRA was amended in 1980 and most recently on November 8, 1984 by Hazardous and Solid Waste Amendments.
29. Testing Laboratories: A "testing laboratory" is an independent entity engaged to perform specific inspections or tests, either at the project

site or elsewhere, and to report on, and, if required, to interpret, results of those inspections or tests.

30. Time Weighted Average (TWA): The average concentration of a contaminant in air during a specific time period.
31. Visible Emissions: Any emissions containing particulate lead material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.
32. Wet Cleaning: The process of eliminating lead contamination from building surfaces and objects by using cloth, mops, or other cleaning utensils which have been dampened with high phosphate detergent and afterwards thoroughly decontaminated or disposed of as lead contaminated waste.
33. Work Area: The area where lead related work or removal operations are performed which is defined and/or isolated to prevent the spread of lead dust, or debris, and entry by unauthorized personnel.

1.6 SUBMITTALS AND NOTICES

- A. Training: Submit three (3) days prior to commencing work two (2) copies of the training documentation for each supervisor and worker who will be on-site for this project. This training shall be in accordance with 8 CCR 1532.1 (CAL/OSHA Lead in Construction Standard).
- B. Medical Monitoring: Submit Five (5) days prior to commencing work two (2) copies of the medical documentation for each supervisor and worker who will be on-site for this project. Contractor shall submit documentation that all employees engaged in removal activities have had the appropriate medical examinations within the prescribed time periods immediately preceding project start-up. Documentation shall include, but is not limited to, baseline blood lead levels performed in accordance with 8 CCR 1532.1 (CAL/OSHA Lead in Construction Standard).
- C. Respiratory Protection: Submit three (3) days before starting work copy of Respiratory Protection Program which is in compliance with ANSI Z88.2-1980, OSHA 29 CFR 1910 and 1926, Cal/OSHA Title 8 Section 1532.1. Contractor shall submit statement from examining physician that each employee is fit to wear a respirator in accordance with 8 CCR 5144 within the

last twelve months. Contractor shall also provide documentation showing that all employees have passed respiratory fit tests within the past twelve months. Contractor shall use only workers medically qualified and trained for lead work and respirator usage.

- D. OSHA Lead Compliance Plan: Submit a detailed plan of the procedures proposed in order to comply with the requirements of 29 CFR 1926.62 and Cal/OSHA Title 8 Section 1532.1. Include in the plan all components required under the standard.
- E. OSHA Lead-Work Pre-Job Notification: The contractor shall provide written notification to the nearest Cal/OSHA Division District Office one day before the start of the project. Provide a copy of this notification to the Environmental Consultant.
- F. MBUAPCD Lead-Work Pre-Job Notification: The contractor shall provide written notification to the Monterey Bay Unified Air Pollution Control District (MBUAPCD) prior to the start of the project. Provide a copy of this notification to the Environmental Consultant.
- G. Hazard Communication Program: Submit three (3) days before starting work a copy of the Hazard Communication Program which is in compliance with 29 CFR 1910.1200.
- H. Hazardous Waste Management Plan: Submit three (3) days before starting work copy of Hazardous Waste Management plan which is in compliance with federal, state, and local hazardous waste regulations and addresses:
 - 1. Identification of hazardous wastes associated with the work.
 - 2. Estimated quantities of wastes to be generated and disposed of.
 - 3. Names and qualifications of each contractor that will be transporting, storing, treating, and disposing of the wastes. Include the facility location and a 24-hour point of contact. Furnish two (2) copies of EPA, state, and local permit applications, permits, and EPA Identification numbers.
 - 4. Names and qualifications (experience and training) of personnel who will be working on-site with hazardous wastes.

5. List of waste handling equipment to be used in performing the work, to include cleaning, volume reduction, and transport equipment.
6. Spill prevention, containment, and cleanup contingency measures to be implemented.
7. The Contractor shall submit name, address, and telephone number of landfill or landfills and transporter to the Owner for approval, prior to disposal. This includes those landfills used for waste categories determined to be non-hazardous.

I. Waste Disposal Records:

1. A written record of receipts with certified weight for disposal of materials containing lead and lead based paint contaminated items shall be furnished to the Owner within forty eight (48) hours after disposal has taken place.
2. Provide a schedule showing date, amount, type of material and location disposed of within five (5) working days of disposal.

1.7 ENVIRONMENTAL CONSULTANT

- A. The Owner has authorized Skyline Engineering to be the Environmental Consultant for the project. Skyline will advise the Owner on all matters relating to the work performed involving the lead removal in accordance with these specifications. Skyline will provide the following site visits and monitoring services including, but not limited to:
1. Visual observations to verify Contractor's compliance with the specifications, as well as applicable regulations, regarding hazard control measures, and related decontamination procedures. The Environmental Consultant will have complete access to all lead work areas during the project in order to perform these site visits.
 2. Visual inspections for lead contamination to determine whether Contractor has successfully completed clean-up and met the project decontamination criteria. The Environmental Consultant will be notified by the Contractor one day prior to the need for final inspection.

3. Interpretation of technical sections of the contract documents, and coordination with the Owner and Contractor for enforcement of regulatory and contractual conformance, including stop work issues.
 4. Stop work orders will be made jointly by the Environmental Consultant and the Owner under the following instances including but not limited to:
 - a. Nonconformance with these specifications.
 - b. A health hazard or safety risk exists to the workers, Owner's employees, Environmental Consultant, or the public.
- B. The cost of the Environmental Consultant will generally be the responsibility of the Owner except under special circumstances. The Contractor shall be responsible for the cost of the Environmental Consultant for services performed when: a) The Contractor's Work Area fails final clearance inspection; or b) additional workdays or workday hours (overtime) are required by the Contractor; or c) The Contractor exceeds the allowable time frame for completion; or d) additional services associated with response to an uncontrolled, unauthorized release to the environment as a result of the Contractor's performance of the work.

1.8 CONTRACTOR QUALIFICATIONS

- A. General Superintendent: Provide a General Superintendent whenever Contractor's personnel are on site who is experienced in administration and supervision of lead removal projects including work practices, protective measures for building and personnel, disposal procedures, etc. This person is the Contractor's representative responsible for compliance with all applicable federal, state and local regulations, particularly those relating to lead-containing materials.

Experience and Training: The General Superintendent and all workers must have completed lead training in accordance with 8 CCR 1532.1 and have had on-the-job training in lead removal procedures. Submit documentation for each worker per section 1.6.

- B. Contractor shall use only workers medically qualified and trained for lead work and respirator usage.

1. The minimum acceptable training course duration is basic lead awareness training in accordance with 8 CCR 1532.1. Should the initial exposure assessment determine lead exposures exceeding the Action Level limit of $30\text{ug}/\text{m}^3$, the lead training must consist of eight (8) hours for each worker. Should the initial exposure assessment determine lead exposures exceeding the permissible exposure limit of $50\text{ug}/\text{m}^3$, the lead training must consist of thirty-two (32) hours for each worker, as specified by the CDPH. All training shall comply with 8 CCR 1532.1 (Cal/OSHA Lead in Construction Standard).
2. Contractor shall submit documentation that all employees engaged in removal activities have had the appropriate medical examinations within the prescribed time periods immediately preceding project start-up. Documentation shall include, but is not limited to, baseline blood lead levels performed in accordance with 8 CCR 1532.1 (Cal/OSHA Lead in Construction Standard).
3. Contractor shall submit statement from examining physician that each employee is fit to wear a respirator in accordance with 8 CCR 5144 within the last twelve months.
4. Documentation that all employees have passed respiratory fit tests within the past six months.
5. The Contractor will provide a copy of their lead compliance program specific for this project, as specified in 8 CCR 1532.1 and indicated in Section 1.5 -- Submittals, above.

PART 2 PRODUCTS

2.1 PROTECTIVE COVERING

- A. Polyethylene sheets, of 6 mil thickness, in dimensions of adequate width to minimize frequency of joints. Polyethylene sheeting shall be flame retardant.

2.2 TAPE

- A. Duct tape, two inches or wider, capable of sealing joints of adjacent sheets of plastic sheeting or for attachment of plastic sheeting to finished or unfinished surfaces.

2.3 DISPOSAL CONTAINERS

- A. Provide non-opaque 6-mil thick polyethylene sheeting, non-opaque 6 mil leak-tight polyethylene bags and other impervious containers as required by applicable regulations. All waste shall be labeled as potentially hazardous waste unless proven otherwise by appropriate sampling and laboratory analysis.
- B. All hazardous waste shipping containers shall meet applicable DOT requirements.
- C. Spray adhesive used to seal the polyethylene bags shall not contain methylene chloride compounds.

2.4 WARNING SIGNS AND LABELS

- A. Caution signs, in accordance with 8 CCR 1532.2, are to be a minimum of 14 x 20 inches and include phrase "CAUTION - LEAD HAZARD - KEEP OUT UNLESS AUTHORIZED" in lettering at least 2" in height. These signs shall be posted at each approach to the work area.
- B. Cal/OSHA Lead Warning Posters: "WARNING -- LEAD WORK AREA-- NO SMOKING OR EATING" shall be posted at the entrance to each work area.
- C. Hazardous waste labels in accordance with federal, state and local regulations, including, but not limited to the California Code of Regulations, Title 22 Chapter 30 and the U.S. Department of Transportation 49 CFR Parts 172, 173, 178 and 179.

2.5 PERSONAL PROTECTIVE EQUIPMENT

- A. Workers shall wear full body disposable suits with hoods and separate booties, tape around ankles, wrists, under arms and neck. Suits will be worn inside the work area after the area passes pre-removal inspection and shall remain in use until the area passes final clearance inspection.
- B. Goggles with side shields will be worn when working with a material that may splash or fragment, or if protective eye wear is specified on the Material Safety Data Sheets (MSDS) for that product.
- C. Additional respiratory protection by supplemental filters, such as organic

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vapor cartridges, may be needed when handling some coating products. Consult the MSDS and obtain the proper filters as necessary. The following guideline indicates types of respirators appropriate for adequate protection against varying lead exposures:

RESPIRATORY PROTECTION FACTORS
 ASSOCIATED WITH LEAD EXPOSURE OPERATIONS

Respirator Type	Protection Factor	Airborne Concentration of Lead
Air purifying, negative pressure respirator, half-face, HEPA filter	10	Not in excess of 500 ug/m ³
Air purifying, negative Pressure respirator, full-face, HEPA filter	50	Not in excess of 2,500 ug/m ³
Powered-air purifying Positive pressure respirator full or half-face, HEPA	50	Not in excess of 2,500 ug/m ³
Type C supplied air Positive pressure respirator Continuous flow mode half-face	1000	Not in excess of 50,000 ug/m ³
Type C supplied air Positive pressure respirator Pressure demand mode full facepiece	2000	Not in excess of 100,000 ug/m ³
Type C supplied air Positive pressure respirator Pressure demand mode full facepiece, equipped with auxiliary positive pressure self contained breathing apparatus (SCBA)	over 2000	Greater than 100,000 ug/m ³
Self contained breathing Apparatus (SCBA) positive Pressure demand mode full facepiece	over 2000	Greater than 100,000 ug/m ³

D. In addition, all Cal/OSHA requirements, such as hard hats, hearing protection, etc. are required.

2.6 TOOLS AND EQUIPMENT

- A. Provide suitable tools for the decontamination and removal of lead containing paint including required HEPA vacuums and exhaust units, airless sprayers, ground fault interrupters, hand tools, wipes, ladders, and scaffolds. Mechanical abrasion tools shall be equipped with local HEPA exhaust and subject to approval by the Environmental Consultant. All tools and equipment brought on site shall be clean and free of contamination from lead and other hazardous materials. HEPA filtered equipment shall be labeled with a warning label and dedicated to lead based paint work to prevent combining hazardous wastes of differing characteristics.
- B. Provide adequate support equipment, including, but not limited to lumber, hardware, hand washing facilities, sprayers, hoses, miscellaneous collection devices, and secured holding facilities.

PART 3 EXECUTION

3.1 GENERAL

- A. The purpose of the Lead in Construction Standard is to provide a level of protection to workers exposed to lead in construction equivalent to that afforded other lead workers under OSHA's general industry standard 29 CFR 1910.1025. The interim final lead standard for the construction industry applies to all occupational exposure to lead in all construction work in which lead, in any amount, is present in an occupationally related context. All of the coated components subject to replacement have been determined to be coated with paint containing some amount of lead. As a result, all coated component replacement will be performed in accordance with the following work practices.

3.2 WORKER SAFETY/DECONTAMINATION PROCEDURES

- A. The contractor shall employ only workers medically qualified and trained for lead work and respirator usage.
 - 1. Medically qualified shall mean that the worker has had an occupational medical exam for lead exposure and respirator use within the last 12 months, in accordance with 29 CFR 1926.62, and shall have had a blood lead test within the last 6 months.

2. Each lead worker shall have completed documented training in lead hazards and lead removal, in accordance with 1532.1.
 3. The Contractor shall assure that no worker is permitted to perform lead removal work until the Environmental Consultant has received and approved all of that worker's medical, training, and respirator fit test certifications.
- B. The Contractor shall perform an initial exposure assessment in accordance with 8 CCR 1532.1. This includes, but is not limited to, collecting personal air samples to determine the employee's actual exposure to lead dust during construction activities. Personal samples will be collected by the contractor pursuant to OSHA regulations. Each task performed will be monitored at a flow rate of 1-4 liters per minute on MCE 37mm 0.8 um pore size cassettes. A minimum of one lab blank will be submitted with each set of samples.
- C. Each worker, upon entering the job location, shall proceed to the designated clean room/area and don, at a minimum, a half-mask, negative pressure respirator equipped with HEPA filters, and disposable, full-body, tyvek suit, before entering the Work Area. The above PPE must be worn during all phases of the component removal process. Personal protective equipment (PPE) must be worn for the duration of this project, or until the initial exposure assessment indicates that exposure to lead dust during these activities will not exceed the action level ($30\mu\text{g}/\text{m}^3$).
- D. Prior to component removal, Contractor shall post lead warning signs at all entrances to the work area. These lead warning signs will be in compliance with the Cal/OSHA Lead in Construction Standard (8 CCR 1532.1).
- E. All disposable clothing worn in each work shift shall be removed prior to exiting the Work Area and shall be properly segregated and placed in containers for non-hazardous disposal.
- F. All tools and equipment shall be decontaminated by HEPA vacuuming and/or wet wiping prior to being taken out of the Work Area.
- G. Workers shall not eat, drink, smoke, or chew gum or tobacco at the work site.
- H. Each worker shall have a final medical blood lead laboratory test within one week of job completion and before engaging in other lead related work.

3.3 GENERAL REMOVAL PROCEDURES

A. Removal of Coated Flashings and Penetrations: This procedure will entail removing any coated flashings or penetrations on the two roof levels at the Gymnasium. The removal procedure for accomplishing this is outlined below:

1. Do not begin work under excessively windy conditions. If the paint chips/dust that will be created by this procedure may become airborne, do not begin work.
2. Post warning signs as stated in Section 3.02. In addition, cordon off Work Area a minimum of 20 feet from the area of removal.
3. Ventilation, heating or air conditioning air intake sources must be disabled and covered prior to material disruption.
4. The wrapping and bagging of the hazardous material must be done at roof level. The secured material must then be lowered by hand down to ground level – not dropped or thrown.
5. Place one (1) layer of 6 mil polyethylene sheeting on the ground and surrounding areas of the roof, directly around the structure to be removed. The sheeting shall extend a minimum of 15 feet from the edge of the building out (10 feet on the roof) in order to prevent any contamination of the ground or surrounding area. Another sheet will also be adhered to the underside of the Pent House opening to protect the inside of the building.
6. Don appropriate PPE as stated in Section 3.2.
7. If necessary, if dust or paint chips may be generated by the Pent House removal, constantly mist the material with amended water so as to minimize the dust levels. Have a HEPA vacuum readily accessible to clean up loose debris.
8. Carefully wrap removed debris in poly sheeting and seal with tape. All other removed parts place and seal in 6mil waste bags. Store this material in a secure area until waste characterization is performed.
9. If paint chips/dust, etc. have been created, clean area using HEPA vacuum and place poly sheeting in 6mil waste bags for waste characterization.

3.4 INSPECTION PROCEDURE/WORK AREA CLEARANCE

- A. A visual inspection will be performed following the lead removal in order to determine the presence of any remaining lead containing debris.
- B. If the Work Area is not visibly clean or if the Environmental Consultant

deems the Work Area not clean, the Contractor will re-clean using HEPA vacuums and TSP solution.

- C. The contractor shall be released only after all areas have been cleared according to the above criteria and accepted by the Owner.

3.5 WASTE STORAGE AND CHARACTERIZATION

- A. The Contractor shall provide for secure on-site storage of lead-containing paint related waste. Waste storage location, equipment, containers and methods shall be in compliance with the requirements of 40 CFR 262 and 265 and California Code of Regulations Title 22, and are subject to prior approval by the Owner and/or the Environmental Consultant.
- B. Construction materials removed from each Work Area must be evaluated to determine waste characteristics prior to disposal.
- C. Removed intact lead coated components shall be properly segregated, wrapped in 6 mil polyethylene sheeting, labeled and securely sealed with duct tape.
- D. Each lead containing paint related waste (chips, dust, etc.) produced shall be placed in properly segregated, labeled and sealed containers.
- E. All waste containers and packaged waste shall be stored in a designated, secure waste storage area and labeled "PENDING ANALYSIS" with the following information:
 - 1. Waste Category (Chip/Dust and Removed Components)
 - 2. Date Accumulated
 - 3. Name and Address of associated Building
 - 4. Origin of Waste
- F. All waste shall be considered hazardous until waste characterization has been performed under the California Code of Regulations, Title 22, including using one or more of the following testing procedures:
 - 1. Total Threshold Limit Concentration (TTLC)
 - 2. Waste Extraction Test (WET)
 - 3. Toxicity Characteristic Leaching Procedure (TCLP)

- G. All waste shall remain stored in secured waste storage areas until results of waste characterization are available. Due to analytical methods of these tests, this may require storage for up to seven working days. Based on the testing protocols, any waste containing greater than or equal to 5ppm lead using WET or TCLP tests or any waste containing greater than or equal to 1000ppm using the TTLC test shall be considered a hazardous waste.
- H. A minimum of four (4) representative samples will be collected from each category of waste generated.
- I. The Contractor is responsible for conducting and all costs associated with waste characterization testing.

3.6 WASTE DISPOSAL

- A. The Contractor is responsible for all costs associated with transportation and disposal of all waste, hazardous and non-hazardous. Contractor will submit a base bid which will include disposal of all waste as non-hazardous and an alternate bid for the disposal of any waste determined to be hazardous.
- B. The Contractor shall submit name, address, and telephone number of landfill or landfills and transporter to the Owner for approval prior to disposal. This includes those landfills used for waste categories determined to be non-hazardous.
- C. The Contractor shall arrange for all hazardous waste to be transported from the site in accordance with the requirements of 40 CFR 263 and 264, and disposed of properly in accordance with 40 CFR 268, 49 CFR Parts 172, 173, 178, and 179 and California Code of Regulations Title 22.
- D. The Contractor shall prepare hazardous waste shipping manifests for review by the Owner. The manifests shall be signed by the Owner and copies retained by the Owner.
- E. Copies of the landfill weight tickets shall be provided to the Owner immediately upon receipt in order to verify the amount of waste disposed of at the site.

3.7 STOP WORK ORDERS

- A. The Owner and/or the Environmental Consultant has the authority to stop

work if it is determined that conditions or procedures are not in compliance with the Work Plan and/or applicable regulations; the Contractor is deficient in providing required submittals; the waste is not securely stored; or a potential release of lead dust to outside the Work Area is imminent based on the Owner's and/or the Environmental Consultant's judgment.

- B. The work stoppage shall remain in effect until conditions have been corrected and corrective measures have been taken to the satisfaction of the Owner's and/or the Environmental Consultant.

-END OF SECTION-

SECTION 055133.13
VERTICAL METAL LADDERS

PART 1 GENERAL

1.01 SCOPE OF WORK UNDER THIS SECTION

- A. Installation of aluminum access ladder at area noted on the plan drawing.

1.02 REFERENCES

- A. AA – Aluminum Association.
- B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- D. OSHA 1910.27 – Fixed Ladders.

1.03 SUBMITTALS

- A. Submittal requirements: Contractor shall highlight anything in the submittal package that conflicts with or changes specifications or drawings. Include a reason for the change. Any submittals that alter existing specifications or drawings shall be approved by the engineer and owner prior to implementation.
- B. Product Data: Manufacturer's data sheets on each product.
- C. Shop Drawings:
 - 1. Detail fabrication and erection of each ladder indicated. Include plans, elevations, sections, and details of metal fabrications and their connections.
 - 2. Provide templates for anchors and bolts specified for installation under other Sections.
 - 3. Provide reaction loads for each hanger and bracket.
- D. Qualification Data:
 - 1. Refer to Quality Assurance provisions for submittal requirements evidencing experience, certifications and resources.
- E. Selection Samples: For each finish specified, two complete sets of color chips representing manufacturer's full range of available colors.
- F. Verification Samples: For each finish specified, two samples, minimum size 6 inches (150 mm) square, represent actual product color.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in producing aluminum metal ladders similar to those indicated for this Project.
 - 1. Record of successful in-service performance.
 - 2. Sufficient production capacity to produce required units.
 - 3. Professional engineering competent in design and structural analysis to fabricate ladders in compliance with industry standards and local codes.
- B. Installer Qualifications: Competent and experienced firm capable of selecting fasteners and installing ladders to attain designed operational and structural performance.
- C. Product Qualification: Product design shall comply with OSHA 1910.27 minimum standards for ladders.
- D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Install ladder in area designated by Engineer.
 - 2. Do not proceed with remaining work until workmanship and installation are approved by Engineer.
 - 3. Rework mock-up as required to produce acceptable work.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions by field measurement before fabrication.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, indicate established dimensions on shop drawing submittal and proceed with fabrication.

1.08 WARRANTY

- A. Manufacturer has responsibility for an extended Corrective Period for work of this Section for a period of 5 years from date of Substantial Completion against all the conditions indicated below, and when notified in writing from Owner, manufacturer shall promptly and without inconvenience and cost to Owner correct said deficiencies.
 - 1. Defects in materials and workmanship.

2. Deterioration of material and surface performance below minimum OSHA standards as certified by independent third party testing laboratory. Ordinary wear and tear, unusual abuse or neglect excepted.
3. Within the warranty period, the manufacturer shall, at its option, repair, replace, or refund the purchase price of defective ladder.

1.09 EXTRA MATERIALS

- A. Furnish touchup kit for each type and color of paint finish provided.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer: O'Keeffe's, Inc.; 325 Newhall St. San Francisco, CA 94124. ASD. Toll Free Tel: (888) 653-3333. Tel: (415) 824-4900. Fax: (415) 824-5900. Email: info@okeeffes.com. Web: <http://www.okeeffes.com>.
- B. Or Approved equal.

2.02 LADDER

- A. Select one of the following configurations that fits the specific job requirement. Refer to the following website <http://okeeffes.com/ladders/accessladder.htm>
 1. 502 Tubular Rail Low Parapet Access Ladder with Roofover Rail Extensions
 2. Or approved equal.

2.03 FINISHES

- A. Mill finish. As extruded.
- B. Clear Anodic Finish: AA-M10C22A41 Mechanical finish as fabricated. Engineerural Class I, clear coating 0.018 mm or thicker.
- C. Paint. Urethane over chemically pretreated substrate. Owner shall approve color.
Options:
 1. Fire Red (RAL 2002).
 2. Alert Orange (RAL 2003).
 3. Warning Blue (RAL 5005).
 4. Caution Yellow (RAL 1018).

5. Safety Green (RAL 6001).
6. As scheduled on drawings.

2.04 MATERIALS

- A. Aluminum Sheet: Alloy 5005-H34 to comply with ASTM B209.
- B. Aluminum Extrusions: Alloy 6063-T6 to comply with ASTM B221.

2.05 FABRICATION

- A. Rungs: Not less than 1-1/4 inches (32 mm) in section and 18-3/8 inches (467 mm) long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides. Rungs shall withstand a 1,500 pound (454 kg) load without deformation or failure.
- B. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.
- C. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces.
- D. Ship Ladders: Not less than 1-1/4 inches (32 mm) high, 4-1/8 inch (105 mm) deep and 2 feet (610 mm)-wide; tread spacing shall be 1 foot (305 mm) on center. Handrails shall be aluminum pipe, not less than 1-1/2 inches (38 mm) in diameter with hemispheric end caps.
- E. Landing Platform: 1-1/2 inches (38 mm) or greater diameter, tubular aluminum guardrails and decks of serrated aluminum treads.
- F. Security Doors: Formed 1/8 inch (3 mm) thick aluminum sheet. Security panels shall extend on both sides, perpendicular to the door face, to within 2 inches (51 mm) of the wall. Security door shall be furnished with continuous aluminum piano hinge and heavy duty forged steel locking hasps.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.
- B. Do not begin installation until supporting structure is complete and ladder installation will not interfere with supporting structure work.

- C. If supporting structure is the responsibility of another installer, notify Engineer of unsatisfactory supporting work before proceeding.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

3.03 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

**SECTION 06 10 00
ROUGH CARPENTRY**

PART 1 - GENERAL

1.01 SCOPE OF WORK:

- A. Supply and install all lumber as specified herein and as required by the manufacturer to qualify for the specified warranty.
- B. Work includes:
 - 1. Wood nailer installation if required by the system.
 - 2. Increase height of curbs as necessary.

1.02 DELIVERY AND STORAGE:

Deliver and store materials in dry, protected areas as directed by owner. Keep free of stain or other damage. Replace any damaged material at no cost to owner. When ready to install, plywood shall be placed on the roof in small stacks over column locations until applied.

PART 2 - MATERIALS

2.01 LUMBER:

- A. Lumber shall be dry and well seasoned. The moisture content shall not exceed 19% in boards 8" or less in depth, 15% in lumber more than 8" in depth and plywood.
- B. Lumber herein referred to shall be graded and grade marked and shall conform to the following specifications, as applicable. All material shall be new.
 - 1. Wood nailers: Pressure treated Douglas Fir.

2.02 FASTENERS FOR WOOD NAILERS

- A. #12 coated or treated screw fasteners for steel decks.
- B. Concrete & Masonry Anchors: Hilti Hit Anchors, Rawl Zamac Nailin Hit anchors, 1-1/2" length, 1/4" diameter or approved equal shall be used for securing sheet metal to masonry or concrete surfaces OR as recommended by the roof membrane manufacturer.

- C. Length of fasteners must be in accordance with manufacturer requirements for minimum penetration into concrete.

PART 3 - EXECUTION

3.01 WOOD MATERIALS:

All materials shall be new when incorporated into the Work.

3.02 WORKMANSHIP:

- A. The entire work of this division shall be performed in accordance with the best standards of practice relating to the trade and under the constant supervision of a competent foreman who shall carefully plan and lay out the work as required to carry out the intent of the drawings and to properly accommodate the work of other trades.
- B. All lumber framing shall be accurately cut and fitted into the respective location, true to lines, grades and level as indicated or required and permanently secured in proper position with spikes, or other fastenings or fittings as detailed to render the work substantial and rigid in all parts and connections.

3.03 INSTALLATION OF WOOD NAILERS:

- A. Install nailers to meet manufacturers wind uplift requirements per linear foot in any direction.
- B. If required by the manufacturer, install nailers at the perimeter, walls, and around curbs to furnish at the same height as the insulation.

3.04 WOOD CURB HEIGHT EXTENSION:

- A. Install wood blocking on tops of curbs in order to extend the height of the curbs.
- B. Use #12 screws of sufficient length. Frequency of screws shall be 12" O.C. or two per nailer minimum.

END OF SECTION

**SECTION 07 15 00
SHEET METAL WATERPROOFING**

PART 1 – GENERAL

1.01 SCOPE OF WORK:

- A. The Work required under this section consists of all shop and field fabricated sheet metal flashing and trim and related items necessary and required to complete the Work as indicated in this Specification
- B. Contractor shall provide all items, articles, materials, operations or methods specified herein, including all labor, materials, equipment, and incidentals necessary and required for completion of the work.
- C. Work included shall be as follows, but not limited to:
 - 1. New counter-flashings.
 - 2. New sheet metal sleeves and storm collars.
 - 3. Coated sheet metal edge flashings.
 - 4. Coated sheet metal flashings where metal must seal into membrane.

1.02 REFERENCES:

- A. American Society for Testing and Materials (ASTM) Standards.
- B. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Architectural Sheet Metal Manual.

1.03 QUALITY ASSURANCE:

- A. Installer: All work of this Section must be performed by a licensed sheet metal contractor with five years of successful experience with installation of sheet metal flashing and trim similar in type and scope to project requirements.
- B. Quality Standard: Fabricate and install sheet metal work in accordance with Sheet Metal and Air Conditioning Contractors' National Association, Inc. (SMACNA) "Architectural Sheet Metal Manual", unless specifically indicated otherwise.

PART 2 - PRODUCTS

2.01 SHEET STEEL:

- A. Galvanized Steel Sheet: ASTM A 526, commercial quality, G-90 hot dip galvanized. Minimum thickness: 24 gage (0.0239 inch), unless otherwise shown on the drawings or specified herein. Galvanized steel sheets shall be acid etched to receive paint finish.
- B. Sheet metal that must be tied into single ply systems such as metal edging and drain flanges may be provided by the manufacturer of the single ply system being used.
- C. Coated sheet metal as provided by the manufacturer of the membrane system being used.

2.02 FASTENERS:

- A. Nails: Shall be hot-dipped, galvanized. All nails shall be approved type and selected for their intended use.
- B. Screws: Minimum No. 8 size screw with watertight neoprene washers under screw head where exposed shall be used for the fastening of sheet metal into wood nailers. Self-tapping, #3 sheet metal screws of 1/2" length shall be used for the fastening of sheet metal to sheet metal. All screws shall be of corrosion resistant metal of same material as the material being fastened. All exposed fasteners shall have 5/8" steel/neoprene washers under head.
- C. Concrete & Masonry Anchors: Hilti Hit Anchors, Rawl Zamac Nailin Hit anchors, 1-1/2" length, 1/4" diameter or approved equal shall be used for securing sheet metal to masonry or concrete surfaces.

2.03 ACCESSORY MATERIALS:

- A. Sealant: Elastomeric sealant shall be a low modulus, high performance, one part polyurethane type conforming to Federal Specifications No. TT-S-00230C, Type II, Class A, such as Sonolastic NP-1 by Sonneborn Building Products, Sikaflex-15LM or approved equal.
- B. Solder: ASTM B 32-89, 50/50 tin-lead, rosin flux shall conform to Federal Specification O-F-506C, Type I, Form A or B.

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examine substrates and conditions under which products of this section are to be installed and verify that work may properly commence. Do not proceed with the Work until unsatisfactory conditions have been fully resolved.
- B. Verify that nailers, blocking, and other attachment provisions for sheet metal work are properly located and securely fastened to resist effects of wind and thermal stresses.

3.02 PREPARATION:

- A. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
- B. Verify that surfaces to receive sheet metal are smooth, clean of all foreign matter, and have no water present in any form.

3.03 INSTALLATION:

- A. Sheet metal work shall be executed in a first-class, workmanlike manner in accordance with standard shop practices. Comply with sheet metal manufacturer's installation methods and recommendations in the SMACNA "Architectural Sheet Metal Manual" AND detail drawings as provided with these specifications. Where conflict exists, more stringent requirements govern.
- B. The sheet metal work shall be accurately formed to dimensions and shapes detailed or required. Broken shapes shall finish with true, straight, sharp lines, and angles; and where intersecting, shall be coped to a precise fit and be securely soldered and scraped smooth. Lock seam work shall be made flat and true to line, sweated full of solder.
- C. All sheet work shall be so formed and installed as to provide suitable allowance for expansion and contraction without causing undue stresses in any part of the completed work and shall finish water and weather tight throughout. Provide movement joints at maximum spacing of ten feet. No joints within 2 feet of corner or intersection.
- D. Mechanically fasten and solder all joints, splices and transitions that are not designed for expansion. Fasten metal by solid riveting or forming double lock seams. Seal by continuous soldering.
- E. Galvanic Action Protection: Isolate different metal types from each other to prevent galvanic action.

- F. Use elastomeric sealant where necessary to make a watertight installation.
- G. Form a ½ - inch hem on the underside of all exposed edges.
- H. Fabricate cleats and attachment devices from same material as sheet metal component being anchored or from compatible, noncorrosive metal recommended by sheet metal manufacturer. The gage thickness shall be as recommended by SMACNA for application but in no case less than gage of metal being secured.
- I. Heat weldable coated metal flashings provided by single ply manufacturer such as edge edges and flanges shall be installed in accordance with manufacturer guidelines.
- J. Sheet metal pan for wood curb under HVAC unit shall be fabricated to cover curb area that is exposed (because curb will be larger than unit). Then fabricate and install sheet metal counterflashing that extends up side of the base of the unit.
- K. Soldered Joints:
 - 1. Clean surfaces to be soldered, removing oils and foreign matter.
 - 2. Pre-tin edges of sheets to be soldered to a width of 1-1/2 inches.
 - 3. Soldering shall be done with well heated soldering irons. Do not use torches for soldering.
 - 4. Heat surfaces to receive solder and flow solder into joint. Fill joint completely.
 - 5. Completely remove all flux spatter from exposed surfaces with a solution of washing soda in water.

3.04 SPECIFIC WORK PERFORMED UNDER THIS SECTION

- A. Coated metal flashings shall be used whenever sheet metal is to be sealed into the membrane.
- B. New counterflashings.
 - 1. Fabricate and install sheet metal counterflashings in a configuration that matches detail drawings.
 - 2. Skirt counterflashings may be used where existing counterflashing do not need to be removed or lifted.
 - 3. All counterflashings shall have a kick and hem.
- C. New sheet metal sleeves and storm collars. Where appropriate, fabricate and install sheet metal sleeves and storm collars. Whenever possible, use pre-manufactured components.

3.05 PAINTING:

All surfaces of exterior galvanized sheet metal work that will be exposed after installation shall be thoroughly cleaned with an acid wash and shall be primed and painted to match existing building finish on adjacent sheet metal surfaces. Refer to Section 09 91 13 Exterior Painting.

3.06 INSPECTION:

Before completing the work, owner shall carefully examine, and if necessary, test all sheet metal work and equipment specified herein, and Contractor shall make all repairs to the work if damaged, leaving it in a condition satisfactory of the owner.

END OF SECTION

SECTION 07 54 00 THERMOPLASTIC MEMBRANE ROOFING

PART 1 – GENERAL

1.01 SCOPE OF WORK UNDER THIS SECTION:

- A. Provide pull testing for mechanical fasteners and insulation/membrane adhesive over the lightweight insulating concrete by manufacturer of fasteners in order to verify and ensure wind uplift compliance.
- B. Method #1 (preferred): Adhere specified tapered insulation and coverboard directly to the lightweight insulating concrete. Adhere 80 mil PVC single ply membrane to substrate with approved adhesive.
- C. Method #2: Install approved base sheet fastened to lightweight insulating concrete. Adhere tapered insulation and coverboard to base sheet. Adhere 80 mil PVC single ply membrane to substrate with approved adhesive.
- D. Lower roof area has a structural concrete deck. Therefore, use Method #1 above at this area.
- E. Install walkpad at ladder access area.
- F. Perimeter and projection flashings:
 - 1. Provide all flashing and penetration details in accordance with the detail drawings and manufacturer guidelines as specified in section 07 54 00.
 - 2. At raised or flat edges, install new coated sheet metal. Any sheet metal that seals into roof membrane shall be coated metal as provided by the manufacturer. Refer to section 071500 Sheet Metal Waterproofing.
- G. Provide owner with a five (5) year contractor guarantee as specified.
- H. Provide owner with a twenty (20) year no-dollar-limit manufacturer warranty covering labor, materials, and metal flashings as specified.

1.02 QUALITY ASSURANCE

- A. Contractor shall:
 - 1. Be experienced in single ply roofing.
 - 2. Be certified or approved for the installation of proposed manufacturer's warranted roofing systems.

1.03 SYSTEM REQUIREMENTS

- A. FIRE RATING - UL Class A: Proposed roofing system must have approvals from Underwriters Laboratories that indicate that the existing fire ratings attain a UL Class A assembly
- B. WIND UPLIFT: The system shall attain a Factory Mutual I-60 or UL Class 60 wind uplift rating. FM listing is not required, but an FM design standard is adequate for this project.

1.04 TECHNICAL SUBMITTALS

- A. The following submittals are to be made in conjunction with any other submittal requirements set forth in the bid documents.
- B. The contractor shall submit the following upon request of the owner or engineer:
 - 1. Manufacturer specification data sheets. Submit for the following products:
 - a. Roof assembly.
 - b. Single ply membrane.
 - c. Cover board
 - d. Adhesives.
 - e. Walk pads (must be approved by owner).
 - f. Any other product used on this project.
 - 2. Manufacturer literature describing the installation procedure of the specified system.
 - 3. Shop drawings of any details that may be different than the NRCA standard details included in these specifications. This includes manufacturer detail drawings that may be different than NRCA drawings. All flashing detail designs shall be approved by the Owner.
 - 4. Material safety data sheets.
 - 5. Tapered insulation layout drawings from manufacturer of tapered insulation system.
 - 6. Test reports:
 - a. Written verification from roofing material supplier that roofing system meets or exceeds regulatory agency/s requirements. A photocopy of the UL Class "A" listing for the specified system with the proposed manufacturer as listed in the 2012 UL Building Materials Directory. The Components of the system listed as UL Class "A" must match the system specified for each respective building.

- b. Letter from the manufacturer OR photo copy of the listing from UL or FM depicting the wind uplift requirements of the system.

1.05 WARRANTY & GUARANTEE

- A. Warranty: The Roofing Manufacturer shall provide a full system no dollar limit (NDL) warranty covering the roof membrane, flashings, insulation, fasteners and stress plates, termination bar, metal, etc., against labor and/or material deficiencies for a minimum period of twenty (20) years from the date of acceptance by the Owner. This written warranty will be provided by the membrane manufacturer and will cover material and workmanship for a minimum of twenty (20) years without any cost to the Owner. The warranty shall specifically state that temporary emergency repairs made to the roofing system by the Owner shall not void or in any way affect the provisions of the warranty.
- B. Guarantee: Upon project completion and owner acceptance, effective upon complete payment, Contractor shall issue owner a guarantee against defective workmanship and materials for a period of five (5) years.

PART 2 – MATERIALS

2.01 GENERAL:

- A. All materials used on this project shall be new products.
- B. Any materials that are seconds, out of date, or used, shall be removed from the job site.
- C. Single ply membrane shall be white with a Cool Roof and Energy Star rating.
- D. FIRE RATING: UL Class A: Proposed roofing system must have approvals from Underwriters Laboratories that indicate that the existing fire ratings attain a UL Class A assembly.
- E. WIND UPLIFT: The system shall attain a Factory Mutual I-60 or UL Class 60 wind uplift rating. FM listing is not required, but an FM design standard is adequate for this project.

2.02 RELATED MATERIALS:

- A. TAPERED INSULATION: Isocyanurate as approved by membrane manufacturer. Slope 1/8" per 12".
- B. COVERBOARD:

- a. USG Securerock,
 - b. Densdeck Prime ¼"
 - c. or approved equal.
 - d. Note: Wood fiber or perlite coverboard is not acceptable for this project even if it is approved by the manufacturer.
- C. COATED METAL FLASHINGS: All coated metal flashing shall be supplied by the manufacturer and covered under the warranty.
- D. ADHESIVES: Shall be approved by the membrane manufacturer. Adhesives shall be voc compliant.
- E. WALK TREADS: Shall be furnished by the membrane manufacturer. Walk treads shall be of the highest quality provided by the manufacturer. Samples of the walk treads shall be provided to the owner for approval.
- F. FASTENERS AND STRESS PLATES: Shall be a non-corrosive type approved by the membrane manufacturer.
- G. CAULK: Shall be a high-grade silicone or urethane as recommended by a membrane manufacturer.
- H. Condensate line supports: Cooper B-line or approved equal. Provide support unit appropriate for pipes being supported in accordance with manufacturer recommendations.
- I. WALK PADS: As approved by manufacturer. Owner prefers Manville traffic yellow heavy duty. Use these walk pads if manufacturer of roofing system approves.
- J. PIPE SUPPORTS: PHP or Cooper B-Line.

2.03 APPROVED ROOFING SYSTEMS/MANUFACTURERS:

- A. Thermoplastic Fleeceback Membrane
- 1. Sarnafil, 80 mils PVC
 - 2. IB 80 mils PVC
 - 3. Manville 80 mils PVC
 - 4. Durolast 80 mils PVC
 - 5. Carlisle 80 mils PVC
 - 6. GAF 80 mils PVC

PART 3 – EXECUTION

3.01 GENERAL

- A. It is the responsibility of the contractor to ensure that all requirements for the specified 20 year NDL warranty are accomplished and included in the bid for this project. No change orders will be approved for non-specified details, techniques, materials or procedures in order to obtain this warranty. If major problems or challenges are noted with regards to these requirements, the contractor shall notify the owner prior to the bid opening.
- B. Difficult areas of roofing:
1. It is not the intention of this specification to provide means or methods of roof installation. However, means and methods of roof installation must adhere to industry and manufacturer standards and shall have the approval of the owner and engineer.
 2. Unusual, unorthodox, or dangerous methods of roof removal or installation shall be reported to and approved by the owner prior to execution.
 3. If rooftop equipment or any other building component needs to be modified or moved in order to properly install the roofing system, it will be the responsibility of the contractor to perform the work under the base bid for this project without change order request. Contractor shall obtain permission from the owner prior to bid opening for any equipment or building component modification. Any damage that is incurred to the equipment or building component as a result of movement or modification shall be repaired or replaced by the contractor at no cost to the owner.
- C. Perimeter and projection flashings: Please refer to section 3.06 of these specifications for specific instructions regarding flashings.

3.02 SURFACE PREPARATION:

- A. Remove designated roof membrane and flashings down to the deck as specified in section 02 41 19.13.
- B. Ensure that the substrate is dry and free of dirt, debris, and other foreign matter prior to the installation of new materials.

3.03 INSTALLATION OF BASE SHEET AND COVERBOARD:

- A. Over lightweight concrete decks:
1. Install approved base sheet over existing lightweight insulating concrete deck

using approved fasteners in accordance with manufacturer requirements and wind uplift regulations.

2. Adhere the specified tapered insulation and coverboard filling all voids greater than 1/4" and staggering all joints.
3. Sump the insulation at drains 36 inches square from the edge of the drain to provide a positive slope.
4. Stagger all joints between layers.
5. Cut insulation and coverboard to fit snugly around all penetrations. Fill any voids greater than 1/4" like material.

3.04 INSTALLATION OF MEMBRANE:

- A. Install perimeter sheets using approved adhesive in accordance with manufacturer's requirements.
- B. Follow manufacturer recommendations for the installation of perimeter or membrane venting.
- C. Inspect the membrane for factory defects or shipping damage. Defective and/or damaged membrane will be rejected. (Note: No more than ten (10) patches per sheet.)
- D. Position field sheets so that side laps are single lapped with the slope and in accordance with the manufacturer's recommendation.
- E. Fully adhered membrane: Adhere the membrane using approved adhesive in accordance with the manufacturer's requirements to satisfy specified wind uplift requirements.
- F. Install approved perimeter fasteners into wood nailers so they penetrate the wood the minimum length as required by the membrane manufacturer and FM requirements.
- G. Prevent wrinkling of membrane as much as possible. (If excessive wrinkling occurs, the Consultant may require the contractor to tack-weld the lap seams and then complete the entire weld.)
- H. Set the seam welder to the manufacturer's required setting. Make a test run and check the seam for proper welds. (All test runs shall be performed on a daily basis.
- I. Probe seams daily and repair loose edges, fish-mouths, and other defects the same day.
- J. Insure that all welding is performed by qualified personnel.

- K. The seam welder shall be powered by a dedicated power supply so as to ensure proper, adequate, and uniform voltage for sufficient seaming procedures. Also, the welder shall be equipped with voltage regulator cut-off features such as infrared sensors and other similar devices to insure consistent voltage, thereby reducing the possibility of cold or inadequate welds. The extension cord to welding units from power supply shall not exceed one (1) cord of 100 feet in length.

3.05 FLASHINGS:

A. General flashing requirements:

1. Follow manufacturer requirements for installation of base flashing systems at lightweight insulated concrete decks. If perimeter venting is required by the manufacturer, install per manufacturer requirements.
2. Elastomeric Flashing:
 - a. Adhere elastomeric sheeting completely to flashing surface, cant, and roofing with Flashing Adhesive. Embed flashing into adhesive immediately.
 - b. Ensure complete bond and continuity without wrinkles or voids.
 - c. Any equipment that will not have curb heights of 8" above the final roof surface shall be extended or raised. If the proposed roofing system manufacturer will accept curb heights less than 8", contractor shall submit request in writing (from manufacturer) to owner and engineer to withdraw this requirement. If a particular piece of equipment is impossible or not financially feasible to lift, raise or extend, contractor shall notify the engineer prior to the bid date for direction.

B. Install flashings in accordance with detail drawings and manufacturer guidelines. Details depicted in the drawings shall also conform with manufacturer guidelines. Where conflict exists, the more stringent detail shall govern. If conflict exists between depicted drawings and manufacturer guidelines, the following process shall apply:

1. Manufacturer shall inspect the detail and provide a recommended flashing design to the contractor and engineer.
2. Contractor shall install the flashing only after it has been approved by the engineer and Owner.
3. There shall be no additional charges for this proposed detail. It is the responsibility of the contractor to ensure that all manufacturer guidelines are accounted for in the base bid for this project.

- C. ANY DETAIL NOT COVERED IN THESE SPECIFICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH GOOD ROOFING PRACTICE, N.R.C.A. RECOMMENDATIONS AND HAVE THE APPROVAL OF THE MANUFACTURER PROVIDING THE WARRANTY FOR THE ROOFING SYSTEM. If a detail is not covered in these specifications the following process will take place prior to bid opening:
1. Contact manufacturer responsible for flashing guarantee. Manufacturer shall inspect the detail and provide a recommended flashing design to the contractor. OR contractor may bid using the approved manufacturer detail.
 3. Contractor shall bid using the manufacturer-approved detail.
 4. Contractor shall submit detail drawing to University as part of the submittals.
 5. No change order will be given to the contractor for flashing details that were visible prior to construction. It is the responsibility of the contractor to cover in his bid all approved and specified details.
- D. Hidden Conditions warranting a change in scope of work or change order:
1. A hidden condition is defined as a condition that is revealed when the existing roof or flashing is removed AND that condition requires additional work above and beyond the work specified. For example, damaged substrate that must be replaced.
 2. If after removal of the roof or flashing, the substrate differs from that shown on the drawings, it shall not be considered a hidden condition unless it requires a change in scope of work.
 3. If nailers are required by the manufacturer, contractor shall install nailers if not present. If nailers are present, contractor may re-use if nailers are approved by the manufacturer.

3.06 SPECIAL INSTRUCTIONS:

- A. Obsolete Penetrations - Verify with owner all obsolete penetrations and remove from the roof.
- B. Delicate mechanical equipment – All mechanical equipment that is damaged or too delicate to move shall be identified at the pre-bid meeting. The owner will be notified and shall assist with repair or moving.
- C. Existing Horizontal Conduits - All conduits should be setting within pre-fabricated flexible brackets. Brackets shall be adhered to the membrane with approved sealant and shall not penetrate membrane.
- D. Equipment Legs and Supports - All supports for equipment and like items shall

be set on wood blocks with membrane protection pads underneath or rubber pads.

- E. Prime and paint all exposed sheet metal flashings in accordance with Section 09 91 13.
- F. Existing Galvanized Jacks: All sheet metal roof jacks that house conduits will be removed will incorporate manufacturer approved boot sleeves.
- G. Remove Josam type drains and install manufacturer approved drain inserts in accordance with section 22 14 29.13 Roof Drainage.
- H. MECHANICAL EQUIPMENT NOT MEETING 8" HEIGHT REQUIREMENT FOR BASE FLASHING: It is not the intention of this contract to perform major mechanical alteration in order to provide 8" heights on flashings. If a mechanical unit exists that does not meet a flashing height requirement, the contractor may install flashings in a manner that does not require major alteration. It is still the responsibility of the contractor to perform the flashing in a watertight manner, and the flashing will be included in the contractor guarantee. If the manufacturer requires a particular flashing height, it is acceptable for the manufacturer to exempt the mechanical unit from the warranty. If a manufacturer is not willing to exempt a specific flashing, then it is the responsibility of the contractor to either comply with the manufacturer requirement, or use another manufacturer.

3.07 RELATED WORK:

- A. Modify mechanical units sufficient to install approved flashings.
- B. Notify owner and Consultant if equipment is in too poor of a condition to move. If necessary, photograph equipment prior to moving.

3.08 WALKPADS:

- A. Clean roof surface of all dirt and debris where walk treads are to be placed.
- B. Install walk treads as approved and warranted by the membrane manufacturer.
- C. Walk treads shall be heat-welded to the membrane by a method approved by the manufacturer. If approved, the preferred method of walkpad attachment is by tack-welding corners.
- D. Locations of walkpads: At roof access ladder area.
- E. Cut slots or spaces in walkpads that may impede drainage.

3.09 POWER SOURCE:

- A. The Contractor shall be responsible for supplying his own power source.
- B. The power shall be of sufficient voltage to insure that welds are made properly.

3.10 AESTHETICS:

- A. Contractor shall coordinate aesthetics with Owner.
- B. Contractor shall take precaution against overspray as directed by Owner.
- C. Contractor shall paint areas of asphalt spillage as directed by the Owner.
- D. Paint all sheet metal and lead surfaces in accordance with Section 099113.
- E. Any dirt, stains from bitumen materials, or other foreign matter shall be removed from the newly installed membrane to restore the surface to a clean, spot-free, and as-new condition, using methods as recommended by the manufacturer.

3.11 FINAL TESTING, INSPECTION & PUNCHLIST:

- A. Contractor shall notify the owner when roof is ready for final inspection.
- B. Owner shall coordinate final inspection and provide contractor with punch list.
- C. Contractor shall perform punchlist items within seven (7) working days of having received the final inspection punchlist.
- D. Owner shall coordinate an inspection verifying that all punchlist items have been complete. If punchlist items remain, contractor may be subject to compensating the owner for additional final punchlist verification inspections.
- E. Drain testing.
 - 1. Contractor shall flood test each drain to ensure that drain inserts are properly installed.
 - 2. Install balloon plug within the drain plumbing at a location lower than the drain insert.
 - 3. Fill the drain and drain sump with water. Allow to stand for 24 hours. Check for leakage by observing inside of the building. The owner may use a capacitance scanner to ensure that water has not penetrated under the membrane.
- F. Final inspection of drainage:
 - 1. Contractor shall flood test the roof in order to verify successful drainage. Flood testing shall occur with owner observation.

2. After 48 hours, the roof will be inspected by the owner. Water remaining on the roof shall be categorized as ponding water in accordance with California Building Code 2010. At this time, the contractor shall be responsible for correcting ponding on the roof through the installation of pond patch filler and new membrane. The procedure shall be approved by the manufacturer. Even though the manufacturer approves standing (ponding) water, this does not alleviate the contractor from the responsibility of correcting ponding water on this project.

END OF SECTION

**SECTION 09 91 13
EXTERIOR PAINTING**

PART 1 - GENERAL

1.01 SCOPE OF WORK:

- A. Provide all labor and materials required to complete all painting and finishing work required by this Specification.
- B. Work shall include: Painting of new sheet metal flashings, sheet metal edging, and other new metal elements which are part of the new roof assembly.

1.02 QUALITY ASSURANCE:

- A. Comply with all state and local regulations governing the use of paint materials. All paint primers and finishes will comply with California Air Resource Board and Environmental Protection Agency regulations.

1.03 PRODUCT DELIVERY, STORAGE, AND HANDLING:

- A. Deliver materials to the work site in unopened containers bearing manufacturer's name and product description.
- B. Store materials in a dry, clean, well ventilated area. Close containers.

PART 2 - PRODUCTS

2.01 PAINT MATERIALS:

- A. Sinclair Paint Company (ICI Paint Stores)
- B. Dunn-Edwards Paint Corporation
- C. Sherwin-Williams Co.

2.02 EXTERIOR PAINT SYSTEMS:

- A. Zinc Coated Metal & Lead Flashings:
 - 1. Pretreatment - (ICI Sinclair Vinyl Wash Primer, Dunn-Edwards Galva-Etch GE 123, Sherwin Williams B50W3).

2. 1st coat - Primer Coat. (ICI Devoe Devguard #4120, Dunn-Edwards W 711, Sherwin Williams B42N8).
3. 2nd coat - Water base acrylic, semi-gloss enamel finish coat (ICI Sinclair #2406 Decrashield Semigloss Finish, Dunn-Edwards W901, Sherwin Williams A84)
4. 3rd coat - Water base acrylic, semi-gloss enamel finish coat (ICI Sinclair #2406 Decrashield Semigloss Finish, Dunn-Edwards W901, Sherwin Williams A84)

PART 3 - EXECUTION:

3.01 CONDITION OF SURFACES:

Examine surfaces scheduled to receive paint and finishes for conditions that will adversely affect execution, permanence and quality of work. Do not apply paint or finish until conditions are satisfactory.

3.02 PREPARATION:

- A. Prepare surfaces in a skillful manner to produce finish work of first class appearance and durability.
- B. Clean surfaces free of dust, dirt, oil, grease and other foreign matter prior to the application of the prime coat.
- C. Repair all voids, nicks, cracks, dents, etc., with suitable patching material and finish flush to adjacent surface.

3.03 APPLICATION:

- A. Apply material evenly, free from sags, runs, crawls, holidays or defects.
- B. Apply paint by brush, roller or spray.
- C. Employ coats and undercoats for all types of finishes in strict accordance with the recommendations of the paint manufacturer.
- D. Allow each coat to dry before succeeding coat application.

3.04 REINSTALLATION OF REMOVED ITEMS:

Following completion of painting each space, promptly reinstall all items removed for painting, using only workmen skilled in the particular trade.

3.05 CLEANING:

Remove all surplus materials and debris from the work site at completion of each days work. Remove all spatterings from all finish surfaces.

END OF SECTION

SECTION 22 14 26.13 ROOF DRAINAGE

PART 1 - GENERAL

1.01 SCOPE:

- A. The work required under this section consists of all plumbing and roofing related items necessary to complete the work as indicated in the Contract Documents.
- B. The Contractor shall provide all items, articles, materials, operations, methods listed, mentioned or scheduled on the drawings and/or specified herein, including all labor, materials, equipment, and incidentals necessary and required for their completion.
- C. WORK INCLUDED:
 - 1. Install drain inserts as specified.
 - 2. During construction process protect exposed roof drain plumbing from debris.
 - 3. The Contractor shall water test all roof drains and downspouts for leakage and blockage at the completion of the project and shall clear all blocked drain lines.

1.02 REGULATORY REQUIREMENTS:

Provide all work and materials in full accordance with the latest rules and regulations of the State Fire Marshal, safety orders of the Division of Industrial Safety and the Uniform Plumbing Code as published by the Western Plumbing Officials Association and other applicable laws or regulations.

1.03 PROJECT CONDITIONS:

Contractor shall examine and familiarize himself with all site conditions, plans and specifications. Report any discrepancies to PG&E or PG&E's representative prior to bid for clarification. No allowance shall be made to Contractor for failure to comply with this requirement.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Pipe Hangers, support rods, anchors: Install in accordance with California Code of Regulations (CCR), Part 2, Title 24. Assemblies will be of standard manufacturer rated for service used. Hangers rods shall have galvanized finish.
- B. Drain inserts – RAC or approved equal. Inserts shall have coated flanges for

heat welding into membrane. Plumbing insert shall have manufacturer pre-made sealant system. Hand sealant not allowed. Drain insert shall have metal strainer.

- C. Horizontal line supports: Cooper B-line, PHP or approved equal. Provide support unit appropriate for pipes being supported in accordance with manufacturer recommendations.

PART 3 - EXECUTION

3.01 INSTALLATION:

- A. Flash all penetrations of pipe through roof and outside walls with approved method to prevent water or moisture from entering structure.
- B. Penetrations Through Fire Rated Walls & Ceilings: Pipes passing through fire rated surfaces shall have the space around the pipe sealed with fire rated materials in accordance with all code requirements.
- C. The Contractor shall do all cutting, fitting or patching of existing construction and his work as may be required to install roof drainage equipment to match existing materials. Any cost caused by defective or ill-timed work shall be borne by the party responsible therefore.
- D. Install drain inserts in accordance with manufacturer requirements.

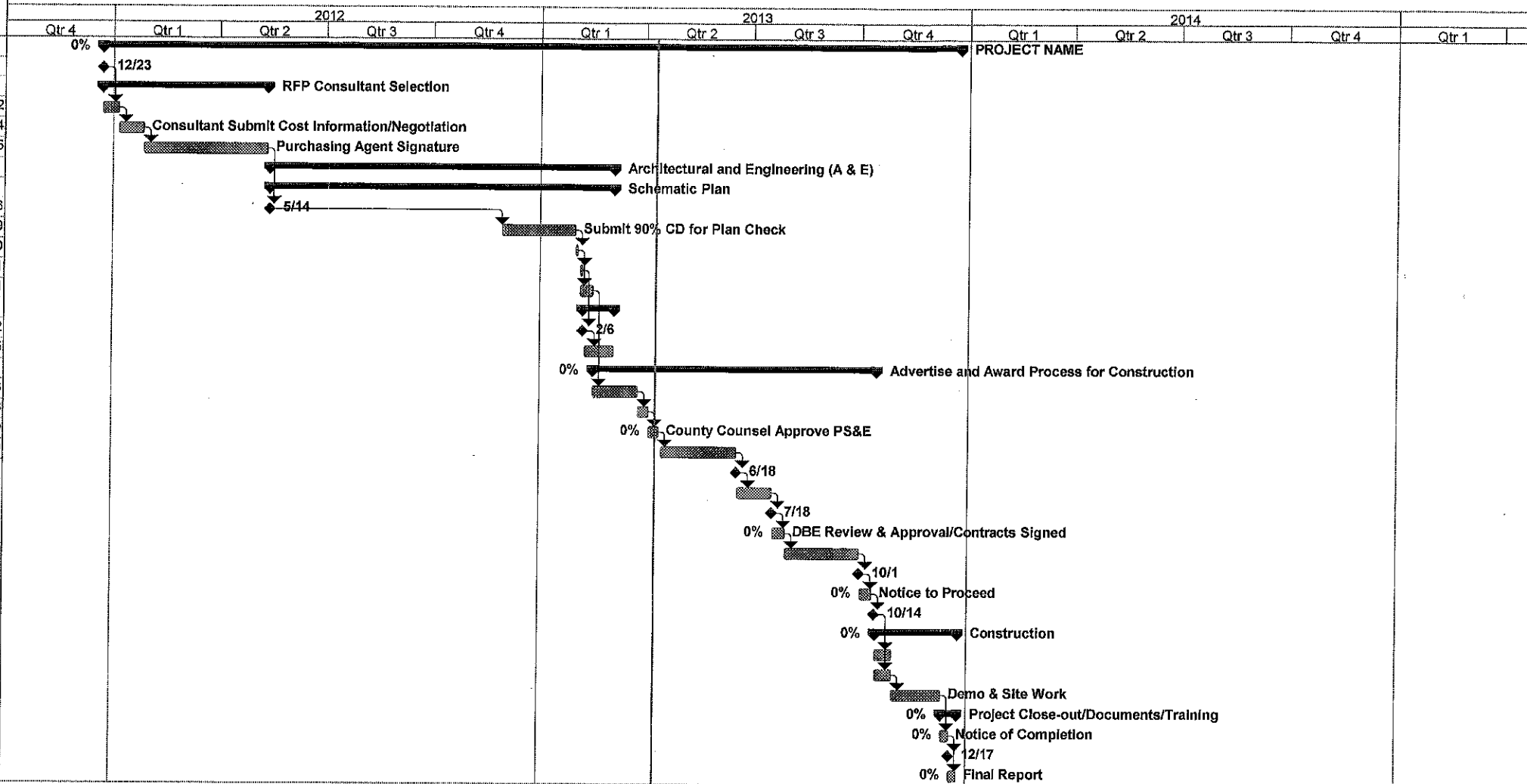
3.02 TESTING:

Water test all roof drains and downspouts with a hose prior to completion of project for a minimum of one hundred eighty (180) minutes. Inspector shall be present during test. All drain lines shall be cleared of debris and any defective conditions corrected to operable condition.

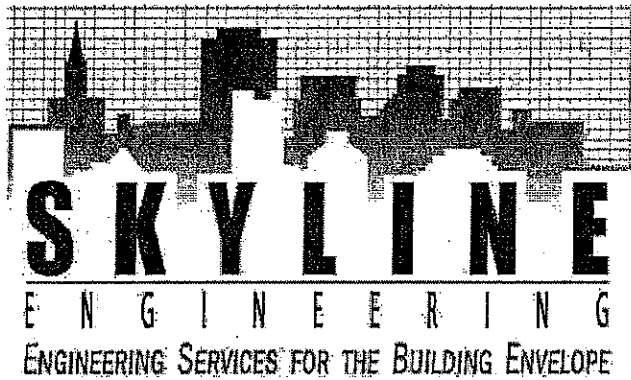
END OF SECTION



ID	Task Name	Duration	Start	Finish
1	Juv Hall Gym Roof Replacement	522 days	Fri 12/23/11	Mon 12/23/13
2	Scope for consultant	0 days	Fri 12/23/11	Fri 12/23/11
3	Consultant Selection	101 days	Fri 12/23/11	Fri 5/11/12
4	Solicit Proposal(s)	10 days	Fri 12/23/11	Thu 1/5/12
5	Consultant Submit Proposal Information/Negotiation	15 days	Fri 1/6/12	Thu 1/26/12
6	Department Signatures/Purchase Order	76 days	Fri 1/27/12	Fri 5/11/12
7	Architectural and Engineering (A & E)	211 days	Mon 5/14/12	Mon 3/4/13
8	Construction Documents	211 days	Mon 5/14/12	Mon 3/4/13
9	Issue PO/NTP	143 days	Mon 5/14/12	Wed 11/28/12
10	Develop 100% CD's	45 days	Thu 11/29/12	Wed 1/30/13
11	Submit for review (100%)	2 days	Thu 1/31/13	Fri 2/1/13
12	100% CD Owner Review	2 days	Mon 2/4/13	Tue 2/5/13
13	100% CD Cost Estimate	9 days	Mon 2/4/13	Thu 2/14/13
14	Plan Check/Permitting	19 days	Wed 2/6/13	Mon 3/4/13
15	Submit 100% CD's for plan check	2 days	Wed 2/6/13	Thu 2/7/13
16	County/other Review #1	17 days	Fri 2/8/13	Mon 3/4/13
17	Advertise and Award Process for Construction	172 days	Fri 2/15/13	Mon 10/14/13
18	Chief, Asst Chief Approval to proceed	27 days	Fri 2/15/13	Mon 3/25/13
19	PM assemble Front end and Special Provisions	7 days	Tue 3/26/13	Wed 4/3/13
20	County Counsel, Risk Mgmt, A/C Approve PS&E	7 days	Thu 4/4/13	Fri 4/12/13
21	Route BOSR for Award	46 days	Mon 4/15/13	Mon 6/17/13
22	Board Approval of PS&E	1 day	Tue 6/18/13	Tue 6/18/13
23	Bidding	21 days	Wed 6/19/13	Wed 7/17/13
24	Bid Opening	1 day	Thu 7/18/13	Thu 7/18/13
25	Bid Review	7 days	Fri 7/19/13	Mon 7/29/13
26	Route BOSR for Award	45 days	Tue 7/30/13	Mon 9/30/13
27	Board Award Contract	1 day	Tue 10/1/13	Tue 10/1/13
28	Notice to Proceed	8 days	Wed 10/2/13	Fri 10/11/13
29	Effective Date of Contract	1 day	Mon 10/14/13	Mon 10/14/13
30	Construction	50 days	Tue 10/15/13	Mon 12/23/13
31	Issue Permits	10 days	Tue 10/15/13	Mon 10/28/13
32	Submit Work Plan	10 days	Tue 10/15/13	Mon 10/28/13
33	Demolition/Repairs	30 days	Tue 10/29/13	Mon 12/9/13
34	Project Close-out/Documents	10 days	Tue 12/10/13	Mon 12/23/13
35	Notice of Completion	5 days	Tue 12/10/13	Mon 12/16/13
36	Turnover of Facility	1 day	Tue 12/17/13	Tue 12/17/13
37	Final Report	5 days	Tue 12/17/13	Mon 12/23/13







Asbestos and Lead Roof Survey Report

COUNTY OF MONTEREY

Juvenile Hall Gymnasium Roof Replacement

January 14, 2013

Prepared for:

Dave Pratt

Management Analyst III

Department of Public Works

855 E. Laurel Dr., Bldg. C

Salinas, CA 93905

Prepared by:

Nathan Schalesky

Skyline Engineering Inc.

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Appendix A: Sample Location Drawings

Appendix B: Chain of Custody Forms and Laboratory Reports

Appendix C: License and Certification

Introduction

Skyline Engineering Inc. was retained by the County of Monterey to conduct an asbestos and lead survey at the Juvenile Hall Gymnasium, Salinas, California. The survey was limited to the roofing materials found on two designated roof levels of the Gymnasium on site. Please refer to the site map to locate the roof levels – found in Appendix A of this report.

Methodology

The performing of an asbestos survey prior to commencement of any demolition and renovation is regulated by the local air quality district. In the Salinas area, an asbestos survey is required regardless of the building's construction date. This asbestos survey was performed in accordance with the Monterey Bay Unified Air Pollution Control District (MBUAPCD) regulations.

In addition, OSHA regulates work practices and worker protection when employees have a potential to be exposed to asbestos occupationally. The asbestos survey was overseen by a California Asbestos Consultant.

The lead survey was performed for workers protection purposes and was not intended as a US Department of Housing and Urban Development (HUD) Lead-Based Paint Inspection. The lead survey was overseen by a California Department of Public Health Certified Lead Inspector.

Bulk samples collected in this survey were submitted to Forensic Analytical Laboratories Inc. and were analyzed using Polarized Light Microscopy (asbestos samples) in accordance with EPA Method 600/R-93-116, and Atomic Absorption Spectrometry (lead samples) using EPA Method 7420.

Forensic Analytical Laboratories, Inc. is accredited by the CDPH and the National Institute of Science and Technology's (NIST) National Voluntary Laboratory Accreditation program (NVLAP). Forensic Analytical Laboratories, Inc. participates in the National Institute for Occupational safety and health (NIOSH) Proficiency analytical Testing Program, and has substantial experience in the analysis of asbestos and lead.

Site Details

The survey project included two roof levels – the main level and the lower level - to be inspected at the Juvenile Hall Gymnasium in Salinas. The sampled roofs can be found on a site map included in this report for reference – Appendix A. The existing roofs are a BUR and gravel surfaced system. The purpose of the survey was to find all asbestos and/or lead containing building materials on these designated roofs. The survey was limited to the roofing materials.

Findings

Asbestos

Samples were taken from the roofing materials of each of the two roof levels. The two areas were treated differently from one another – sample results from one level were not presumed to apply to the next. Suspect asbestos materials observed in the roofing systems included roofing felts, base flashings, mastic repairs, coatings, and sealants.

On the two roof areas, asbestos containing materials were found to be present in the roofing felts of the field and base flashings.

These materials and their locations are listed below:

Roof Level	Sample Location	ACM Location	ACM Material	Color	Result	NESHAP Category	Current ACM Condition
Main Level	A1	Field North Side	Roofing Felts	Black	ACM	Category II (See note below**)	Fair
Main Level	A2	Field South	Roofing Felts	Black	ACM	Category II	Fair
Main Level	A3	Base Flash w/ Light Grey Patch	Roofing Felts	Black	ACM	Category II	Fair
Main Level	A4	Base Flash w/ Med Grey Patch	Roofing Felts	Black	ACM	Category II	Fair

Main Level	A5	Base Flash w/ White Patch	Roofing Felts	Black	ACM	Category II	Fair
Main Level	A6	Field Perimeter/ Mastic Repair	Roofing Felts	Black	ACM	Category II	Fair
Lower Level	A7	Field	Roofing Felts	Black	ACM	Category II	Fair
Lower Level	A8	Base Flash w/ Black Patch	Roofing Felts	Black	ACM	Category II	Fair
Lower Level	A9	Base Flash at Equipment	Roofing Felts	Black	ACM	Category II	Good

****Category II** – regulated asbestos containing material that is non-friable but has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Lead

Samples were taken from the roofing materials of each of the two roof areas. Each level was treated separately from one another – sample results from one level was not presumed to apply to the next. Suspect lead containing materials observed in the roofing systems included coatings on gutters, flashings, penetration details, and miscellaneous details including pipes and conduits. Lead based paint (LBP**) was found to be present and is listed below:

Roof Level	Sample Location	LCM Location	Substrate	Color	Result	LCM Condition
Main Level	PB1	Edge Flashing	Metal	Green	Lead Based Paint	Intact
Lower Level	PB2	Wall Flashing	Metal	Light Green	Lead Based Paint	Intact
Lower Level	PB3	Drain Channel	Metal	Orange	Lead Based Paint	Intact

****LBP – Lead based paint – Surface coatings containing greater than the Consumer Product Safety Commission maximum concentration of 600 ppm (0.06% by weight).**

The orange-coated edge flashing on the lower level was not tested and must be assumed to be lead containing material. Refer to sample PB3 above for the results of the orange coating.

Due to the lab results for the coatings found on the two levels, it is Skyline's recommendation to treat all painted/coated metal flashings as lead-containing material.

Conclusions

Skyline Engineering performed an asbestos and lead survey of two roof areas at the Monterey County Juvenile Hall Gymnasium. The survey was limited to the roofing systems. Asbestos containing materials were identified on both of the roofs. Lead based paint was identified on both of the roof levels.

Recommendations

Skyline Engineering recommends that the handling or the removal of the above ACM and LCM be completed by an appropriately qualified contractor. Any work disturbing lead containing material should comply with the Cal/OSHA 8CCR 1532.1 Lead in Construction Standard. Any work disturbing asbestos containing material should comply with the Cal/OSHA 8CCR 1529.

Limitations


This investigation is limited to the conditions and practices observed and information made available to Skyline Engineering Inc. The methods, conclusions, and recommendations provided are based on Skyline's judgment, experience and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Thank you for the opportunity to work with you. Please do not hesitate to give us a call with any questions or concerns..

Sincerely,
Skyline Engineering Inc.



Nathan Schalesky
Director of Environmental Services

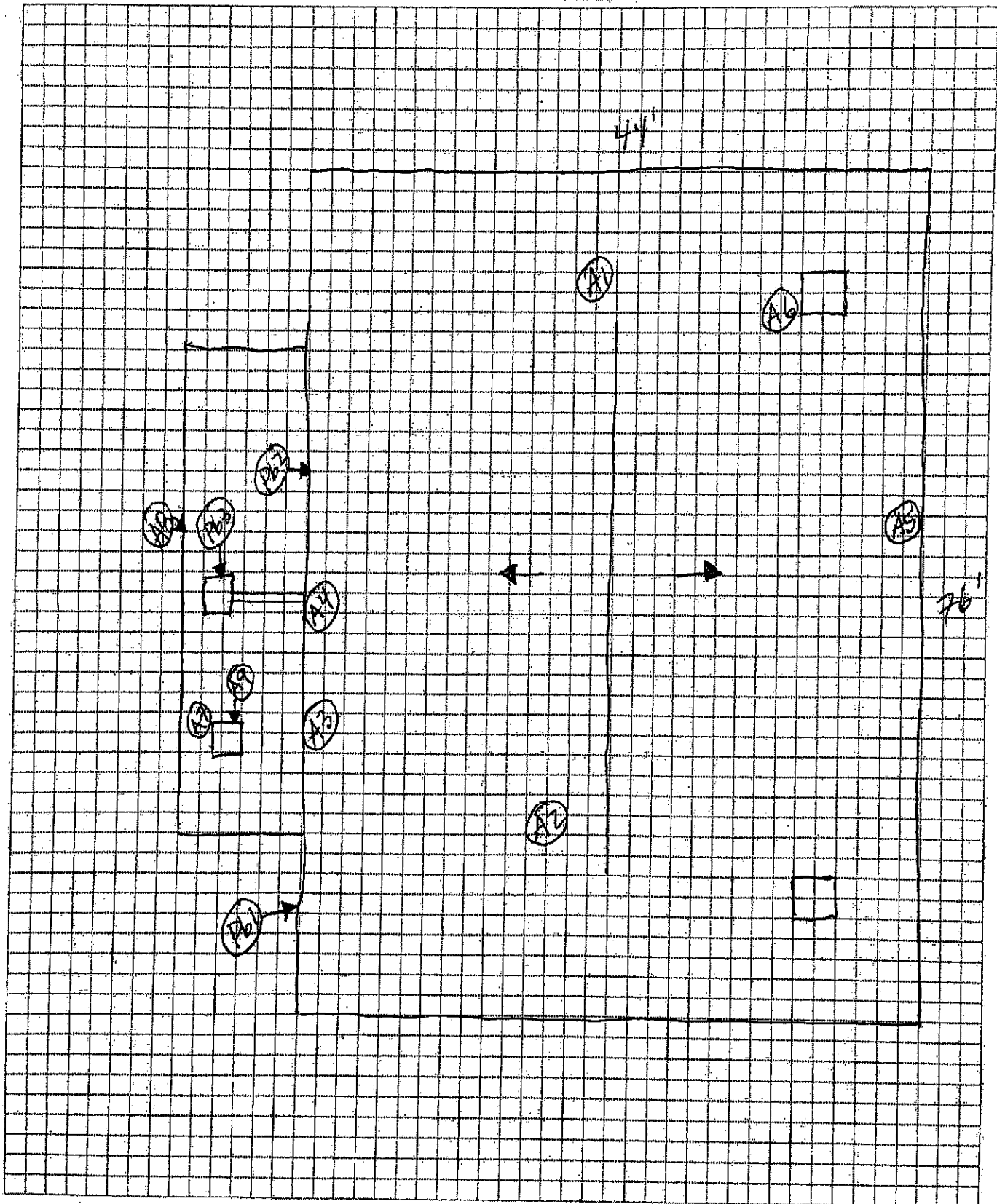
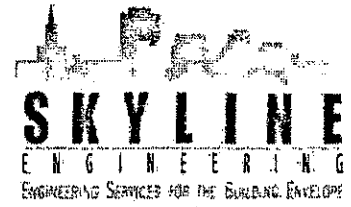


Wilson Wong
CAC, CLI

Appendix A

Sample Location Drawings

SURVEY FLOOR PLAN	
Project	County Monterey Juvenile Hall Gym
Building	
Inspectors	
Date	12.7.12



Appendix B

Chain of Custody Forms

And

Laboratory Reports



Forensic Analytical Laboratories, Inc.

Analysis Request Form (COO)

Client Name & Address: Skyline Engineering #C13550		PO / Job#: MCJHG	Date: 12.7.12
Contact: Nathan Schalesky		Turn Around Time: <input type="checkbox"/> Same Day / <input type="checkbox"/> 1 Day / <input type="checkbox"/> 2 Day / <input type="checkbox"/> 3 Day / <input type="checkbox"/> 4 Day / <input checked="" type="checkbox"/> 5 Day	
Phone: (831) 521-0076 Fax:		<input type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer	
E-mail: nata@skylineengineering.com		<input checked="" type="checkbox"/> PLM: <input checked="" type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / 1000 / <input type="checkbox"/> CARB 435	
Site: County of Monterey Juvenile Hall Gymnasium		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402	
Site Location: 1420 Natividad, Salinas CA		<input type="checkbox"/> TEM Risk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield	
		<input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight %	
		<input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual (+) / <input type="checkbox"/> DS755(stc/area) / <input type="checkbox"/> DS756(stc/mass)	
		<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot	
		<input type="checkbox"/> Particle Identification (TFM LAB) <input type="checkbox"/> Special Project	
		<input type="checkbox"/> Metals Analysis: Method:	
		Matrix:	
		Analytes:	

Comments: _____ Report Via: Fax E-Mail Verbal

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY			Sample Area / Air Volume
			Type	Time On/Off	Avg. I/PM	
MCJHG - A1		Field North	IA P TC			
MCJHG - A2		Field South	IA P TC			
MCJHG - A3		Base Flash light grey patch	IA P TC			
MCJHG - A4		Base Flash Med grey patch	IA P TC			
MCJHG - A5		Base Flash white patch	IA P TC			
MCJHG - A6		Base Flash Equipment	IA P TC			
MCJHG - LOW - A7		Field	IA P TC			
MCJHG - LOW - A8		Base Flash black patch	IA P TC			
MCJHG - LOW - A9		Base Flash Equipment	IA P TC			
			IA P TC			

Sampled By: Nathan Schalesky Date: 12.7.12 Time: _____

Shipped Via: Fed Ex DHL UPS US Mail Courier Drop Off Other

Relinquished By: <i>[Signature]</i>	Relinquished By:	Relinquished By:
Date / Time: 12.7.12 10:00 am	Date / Time:	Date / Time:

Received By: <i>[Signature]</i>	Received By:	Received By:
Date / Time: 12-10-12 10:30 am	Date / Time:	Date / Time:

Condition Acceptable? Yes No Condition Acceptable? Yes No Condition Acceptable? Yes No

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Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Skyline Engineering, Inc.
Nathan Schalesky
8100 Wild Horse Rd.

Salinas, CA 93907

Client ID: L1355
Report Number: B171336
Date Received: 12/10/12
Date Analyzed: 12/17/12
Date Printed: 12/17/12
First Reported: 12/17/12

Job ID/Site: MCJHG - County of Monterey Juvenile Hall Gymnasium, 1420 Natividad,
Salinas, CA
Date(s) Collected:

FALI Job ID: L1355
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MCJHG-A1	11325612						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (30%)					
Cellulose (10%)		Fibrous Glass (10%)					
Comment: Bulk complex sample.							
MCJHG-A2	11325613						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (30%)					
Cellulose (10%)		Fibrous Glass (10%)					
Comment: Bulk complex sample.							
MCJHG-A3	11325614						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (36%)					
Cellulose (15%)		Fibrous Glass (10%)					
Comment: Bulk complex sample.							

Report Number: B171336

Date Printed: 12/17/12

Client Name: Skyline Engineering, Inc.

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MCJHG-A4	11325615						
Layer: Black Mastic			ND				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Total Composite Values of Fibrous Components:		Asbestos (25%)					
Cellulose (20%)		Fibrous Glass (5%)					
Comment: Bulk complex sample.							
MCJHG-A5	11325616						
Layer: White Coating			ND				
Layer: Black Mastic			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Total Composite Values of Fibrous Components:		Asbestos (36%)					
Cellulose (15%)		Fibrous Glass (10%)					
Comment: Bulk complex sample.							
MCJHG-A6	11325617						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Total Composite Values of Fibrous Components:		Asbestos (25%)					
Cellulose (20%)		Fibrous Glass (5%)					
Comment: Bulk complex sample.							
MCJHG-LOW-A7	11325618						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Total Composite Values of Fibrous Components:		Asbestos (36%)					
Cellulose (15%)		Fibrous Glass (10%)					
Comment: Bulk complex sample.							

Client Name: Skyline Engineering, Inc.

Report Number: B171336

Date Printed: 12/17/12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MCJHG-LOW-A8	11325619						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				

Total Composite Values of Fibrous Components: Asbestos (36%)
Cellulose (15%) Fibrous Glass (10%)
Comment: Bulk complex sample.

MCJHG-LOW-A9	11325620						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				

Total Composite Values of Fibrous Components: Asbestos (25%)
Cellulose (20%) Fibrous Glass (5%)
Comment: Bulk complex sample.



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Forensic Analytical Laboratories, Inc.

Analysis Request Form (COC)

Client Name & Address: Skyline Engineering #C13550		PO / Job#: MCJHG	Date: 12.7.12
Contact: Nathan Schalesky		Turn Around Time: <input type="checkbox"/> Same Day / <input type="checkbox"/> 1Day / <input type="checkbox"/> 2Day / <input type="checkbox"/> 3Day / <input type="checkbox"/> 4Day / <input checked="" type="checkbox"/> 5Day	
Phone: (831) 521-0076 Fax:		<input type="checkbox"/> PCMs: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer	
E-mail: nate@skylineengineering.com		<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / 1000 / <input type="checkbox"/> CARB 435	
Site: County of Monterey Juvenile Hall Gymnasium		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402	
Site Location: 1420 Natividad, Salinas CA		<input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield	
Comments:		<input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight %	
Report Via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> E-Mail <input type="checkbox"/> Verbal		<input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual(+/-) / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)	
Analytes:		<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot	
Metals Analysis: Method: Flame AA (Pb)		<input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project	

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
MCJHG - Pb1		main level, edge flash, green	A P TC				
MCJHG - Low - Pb2		lower level, wall flash, light green	A P TC				
MCJHG - Low - Pb3		lower level, drain channel flash, orange	A P TC				
			A P TC				
			A P TC				
			A P TC				
			A P TC				
			A P TC				
			A P TC				

Sampled By: Nathan Schalesky		Date: 12.7.12	Time:
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> DHL <input checked="" type="checkbox"/> UPS <input type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:			
Relinquished By: <i>[Signature]</i>	Relinquished By:	Relinquished By:	
Date/Time: 12.7.12 10:00 am	Date/Time:	Date/Time:	
Received By: <i>[Signature]</i> ups	Received By:	Received By:	
Date/Time: 12-10-12 @ 10:30am	Date/Time:	Date/Time:	
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	

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 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, Nevada 89119 / Ph: (702)784-0040 / Fax: (702)784-0030



Metals Analysis of Paints

Skyline Engineering, Inc.
Nathan Schalesky
8100 Wild Horse Rd.

Salinas, CA 93907

Client ID: L1355
Report Number: M134709
Date Received: 12/10/12
Date Analyzed: 12/12/12
Date Printed: 12/12/12
First Reported: 12/12/12

Job ID / Site: MCJHG, County of Monterey Juvenile Hall Gymnasium, 1420 Natividad,
Salinas, CA
Date(s) Collected: 12/7/12

FALI Job ID: L1355
Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
MCJH6-PB1	30451147	Pb	4.4	wt%	0.3	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
MCJH6-LOW-PB2	30451148	Pb	2.1	wt%	0.2	EPA 3050B/7420
MCJH6-LOW-PB3	30451149	Pb	20	wt%	2	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

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Appendix C

License and Certification

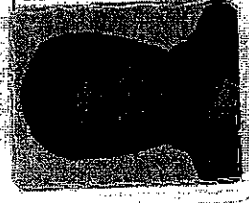
State of California Department of Public Health
 Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	11/24/2012
Project Monitor	10/23/2012

Wilson W. Avogadro
 ID# 44011

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Wilson W Wong



Name
Certification No. 92-0791
Expires on 01/28/13

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 71100 et seq. of the Business and Professions Code.

