Professional Services Agreement

With

Hellmuth, Obata & Kassabaum, Inc.

May __, 2012

AGREEMENT BETWEEN THE COUNTY OF SAN MATEO AND

HELLMUTH, OBATA & KASSABAUM, INC. at One Bush Street, Suite 200, San Francisco, CA 94104

This Professional Services Agreement (the **"Agreement"**) is dated May __, 2012 and is by and between the County of San Mateo, a political subdivision of the State of California (**"Owner"**) and Hellmuth, Obata & Kassabaum, Inc. (**"Architect"**).

Recitals

WHEREAS, Owner wishes to retain Architect to provide architectural, engineering and related services for its Replacement Correctional Facility Project;

WHEREAS, Architect was selected by means of Owner's consultant selection process, and represents that it is qualified to provide the services required by Owner as set forth in this Agreement;

WHEREAS, Owner's rules and regulations authorize Owner to enter into agreements for expert professional temporary services; and

WHEREAS, the services proposed in this Agreement are professional and temporary in nature.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, stipulated and agreed, the parties agree as follows:

AGREEMENT

1. Definitions

1.1 Where any word or phrase defined below, or a pronoun used in place thereof, is used in any part of this Agreement, it shall have the meaning herein set forth.

"Agreement"	This Agreement together with all attachments and appendices and other documents incorporated herein by reference, including, but not limited to, Appendix A (Services to be Provided by Architect), Appendix B (Payments to Architect), Appendix C (Milestone Schedule), Appendix D (Deliverables) and Appendix E (Insurance) attached hereto
"Architect"	Hellmuth, Obata & Kassabaum, Inc. One Bush Street, Suite 200 San Francisco, CA 94104 Tel: (415) 243-0555 Fax: (415) 882 7763
Owner"	County of San Mateo
"Project"	The project described in Appendix A, Services to be Provided by Architect.
"Services"	All work, labor, materials and services required under the terms and conditions of this Agreement, provided pursuant to the terms and conditions of this Agreement, including without limitation architectural, engineering, building information modeling, coordination and administrative services.
"Sub-consultants"	Architect's consultants, Sub-consultants, contractors and sub-contractors, of any tier.

2. Term of Agreement

2.1 All work comprising the Services shall be deemed performed under this Agreement. This Agreement shall conclude upon the completion of the Project.

3. Services Architect Agrees to Perform

3.1 Architect shall perform all Services described in Appendix A, Services to be Provided by Architect, attached hereto and incorporated by reference as though fully set forth herein.

3.2 Architect shall complete all Services required by this Agreement within the times specified in the Milestone Schedule in Appendix C. Architect agrees that the Milestone Schedule includes reasonable allowances for completion of the Services, including all time required for Owner's review and approval of deliverables and for approval of the deliverables by all authorities having jurisdiction over the Project and Services. Architect shall achieve its scheduled Milestones (as shown on the Milestone Schedule) unless an Excusable Event causes delay ("**Excusable Delay**"), and unless Architect gives written notice of the Excusable Event and requests a time extension within twenty one (21) days of the occurrence of the Excusable Event. (**"Excusable Events"** shall be limited to acts of neglect by Owner or Owner's agents, contractors or consultants when acting at Owner's direction, breaches of this Agreement by Owner, Acts of God such as fire, flood, earthquake, or epidemic, or delay by a construction contractor during the construction phase of the Project, or any other circumstances beyond Architect's reasonable control.) If the period of Excusable Delay caused by an Excusable Event concurs with an Architect caused or other nonexcusable delay, Owner may (but shall not be required to) grant a time extension without compensation.

3.3 Architect may recover extra costs resulting from Excusable Delay upon showing that the costs claimed (i) resulted from time and/or expenses actually incurred in performing Services, (ii) were incurred by Architect as a direct result of the delay and not otherwise within Architect's scope of Services, and (iii) are documented to Owner's satisfaction. (For example, and not by way of limitation, contract punch list and final inspection Services, when performed no more than twice, and Services related to correcting deficiencies in Architect's work, shall be within Basic Services and not entitle Architect to extra costs or Additional Services.)

3.4 Should the progress of the Services under this Agreement at any time fall behind schedule for any reason other than Excusable Delays, Architect shall apply such additional manpower and resources as necessary without Additional Services Compensation to bring progress of the Services under this Agreement back on schedule and consistent with the standard of professional skill and care required by this Agreement. Time is of the essence in the performance of this Agreement

4. Compensation

4.1 Owner shall pay Architect compensation according to the Compensation Schedule established in Appendix B, "Payments to Architect". Owner shall pay Architect in monthly payments on or before the last day of each month for Services in an amount which the Owner, in its sole discretion, concludes is the value of the Services which have been properly performed as of the last day of the immediately preceding month and is invoiced and due under Appendix B.

4.2 Owner shall not incur any charges under this Agreement, nor shall any payments become due to Architect for any payment period on the Project, until Owner receives all deliverables required under Appendix D, "Deliverables", for the payment period (if any) and reasonably accepts such deliverables as meeting the requirements of this Agreement. In cases where Architect has partially completed one or more deliverables due during a payment period, and if Architect demonstrates diligent progress thereon, then Owner will make a partial progress payment based upon Architect's percentage completion of the partially completed deliverables and diligent progress but taking into account any

adverse impacts upon Owner. Owner shall not be liable for, and Architect shall not be entitled to, any payment for Services performed before this Agreement's execution. Architect shall be entitled to compensation retroactively once Agreement is fully executed and provided said Services are included within Architect's Scope of Services.

4.3 Owner will not withhold entire payment if a questioned amount is involved, but will issue payment in the amount of the total invoice less any questioned amount(s). Owner will make payment for questioned amounts(s) upon Owner's receipt of any requested documentation verifying the claimed amount(s) and Owner's determination that the amount is due under the terms of this Agreement. Owner shall advise Architect, in writing, within 15 days of receipt of the requested documentation. Final payment will be made when all Services required under this Agreement have been completed to the reasonable satisfaction of Owner including, without limitation, Architect's transmittal of all deliverables to Owner required by Appendix A, Services to be Provided by Architect.

4.4 Invoices furnished by Architect under this Agreement must be in a form acceptable to Owner. All amounts paid by Owner to Architect shall be subject to audit by Owner. Payment shall be made by Owner to Architect at the address stated in Paragraph6.1 below.

4.5 Owner may set off against payments due Architect under this Agreement any sums that Owner determines that Architect owes to Owner because of Architect's errors, omissions, breaches of this Agreement, delays or other acts that caused Owner monetary damages. Prior to exercising such right, Owner must demand and attend mediation pursuant to Paragraph22.2 below of this Agreement, to be attended by Owner, Architect, and any applicable insurance carriers; such mediation to occur within 30 days of demand. If the parties cannot agree upon the time, place, and mediator, within one week of the Owner's demand, then the San Mateo County Superior Court may upon application by any party make such selection for the parties. If a party other than Owner refuses to mediate under this Paragraph4.5, then Owner shall have satisfied its obligations under this Paragraph.

5. Maximum Costs

5.1 Owner's obligation hereunder shall not at any time exceed the amount approved by Owner's Board of Supervisors and approved by Owner's Representative or designee for payment to the Architect pursuant to the terms of this Agreement.

5.2 Except as may be provided by applicable law governing emergency conditions, Owner has not authorized its Supervisors, employees, officers and agents to request Architect to perform Services or to provide materials, equipment and supplies that would result in Architect performing Services or providing materials, equipment and supplies that exceed the scope of the Services, materials, equipment and supplies agreed upon in the Agreement unless the Owner amends the Agreement in writing and approves the amendment as required by law to authorize the additional Services, materials, equipment or supplies.

5.3 Owner shall not reimburse Architect for Services, materials, equipment or supplies provided by Architect beyond the scope of the Services, materials, equipment and supplies agreed upon in the Agreement and unless approved by a written amendment to the Agreement having been executed and approved in the same manner as this Agreement.

6. Qualified Personnel

6.1 For purposes of this Agreement, except for notices specified under Paragraph17 below, Owner and Architect shall direct all communications to each other as follows:

Owner	**Architect**
Project Executive	Lynn Filar, Principal-in-Charge

Jail Planning Unit	Hellmuth, Obata & Kassabaum, Inc.
400 County Center	One Bush Street, Suite 200
Redwood City, CA 94063	San Francisco, CA 94104

6.2 Services under this Agreement shall be performed only by qualified, competent personnel under the supervision of and/or in the employment of Architect. Architect shall conform with Owner's reasonable requests regarding assignment of personnel, but all personnel, including those assigned at Owner's request, and shall be supervised by Architect.

6.3 Architect agrees that all senior professional personnel assigned to the Project will be those listed in its proposal, Exhibit1 to Appendix A, attached hereto and by this reference incorporated herein, and that the listed personnel will continue their assignments on the Project during the entire term of this Agreement. It is recognized that the listed personnel may in the future cease to be employed by Architect and because of the termination of such employment no longer able to provide Services. However, Architect agrees that replacement of any of the listed personnel during the Agreement period shall only be with other professional personnel who have equivalent experience and shall require the prior written approval of Owner. Any costs associated with replacement of personnel shall be borne exclusively by Architect. Resumes for all listed senior professional personnel are attached via Exhibit1 to Appendix A and by this reference incorporated herein.

6.4 Architect agrees that should the above personnel not continue their assignments on the Project during the entire term of this Agreement, then Architect shall not charge Owner for the cost of training or "bringing up to speed" replacement personnel. Owner may condition its reasonable approval of substitution personnel upon a reasonable transition period wherein new personnel will learn the Project and get up to speed at Architect's cost.

7. Representations

7.1 Architect represents that it has reviewed Appendix A, Services to be Provided by Architect, and that in its professional judgment the Services to be performed under this Agreement can be performed for a fee within the maximum amount set forth in the Compensation Schedule established in Appendix B, Payments to Architect, and within the times specified in the Milestone Schedule.

7.2 Architect represents that it is qualified to perform the Services and that it possesses, and will continue to possess at its sole cost and expense, the necessary licenses and/or permits required to perform the Services or will obtain such licenses and/or permits prior to time such licenses and/or permits are required. Architect also represents that it has knowledge of, and will comply with, all applicable building codes, laws, regulations and ordinances.

7.3 Architect represents that it and its Sub-consultants have specialized expertise in designing and observing construction of facilities similar to those intended for the Project. Sub-consultants' Statements of Qualification, will be incorporated into this Agreement as an Exhibit2 to Appendix A. Architect agrees that the Services shall be performed in a manner that conforms to the standards of professional practice observed by a specialist in performing services pertaining to adult detention facilities similar to the Services (**"Standard of Care"**). Architect agrees that for a period of one year after the completion of the Services or at the final acceptance of the construction resulting from the Services, whichever is later, it will re-perform or replace any part or all of the Services deemed by Owner to be defective and/or not meeting the above standard.

7.4 The granting of any progress payment by Owner, or the receipt thereof by Architect, or any inspection, review, approval or oral statement by any representative of Owner or any other governmental entity, shall in no way waive or limit the obligations in this Paragraph7 or lessen the liability of Architect for unsatisfactory Services, including but not limited to cases where the defective or below standard Services may not have been apparent or detected at the time of such payment, inspection, review or approval.

8. Indemnification and General Liability

8.1 To the fullest extent permitted by law (including, without limitation, California Civil Code Sections 2782 and 2782.8), Architect shall defend (including providing legal counsel reasonably acceptable to Owner at no cost to Owner) indemnify and hold harmless Owner and its Supervisors, officers, agents, departments, officials, representatives and employees (collectively **"Indemnitees"**) from and against any and all claims, suit, action, loss, cost, damage, injury (including, without limitation, economic harm, injury to or death of an employee of Architect or its Sub-consultants), expense and liability of every kind, nature and description, at law or equity, that arise out of, pertain to, or relate to (including, without limitation, incidental and consequential damages, court costs, reasonable attorneys' fees, litigation expenses and fees of expert consultants or expert witnesses incurred in connection therewith and costs of investigation) any negligence, recklessness or willful misconduct of Architect, any Sub-consultant, anyone directly or indirectly employed by them, or anyone that they control (collectively **"Liabilities"**). Such obligations to defend, hold harmless and indemnify any Indemnitee shall not apply to the extent that such Liabilities are caused in whole or in part by the sole negligence, active negligence, or willful misconduct of such Indemnitee, but shall apply to all other Liabilities.

8.2 Architect shall defend (including providing legal counsel reasonably acceptable to Owner at no cost to Owner), indemnify and hold harmless the Indemnitees from all loss, cost, damage, expense, suit, liability or claims, in law or in equity, including attorneys' fees, court costs, litigation expenses and fees of expert consultants or expert witnesses, that may at any time arise for any infringement of the patent rights, copyright, trade secret, trade name, trademark, service mark or any other proprietary right of any person or persons in consequence of the use by Owner, or any of the other Indemnitees, of articles or Services to be supplied in the performance of this Agreement.

8.3 Owner shall include a provision in the construction contract with the general contractor on the Project requiring the general contractor to indemnify Architect for damages resulting from the negligence of the general contractor and its subcontractors. Owner shall also include a provision in the construction contract with the general contractor on the Project requiring the general contractor to name Architect as an additional insured on its Comprehensive General Liability insurance coverage. If the Architect has the opportunity to review the construction contract prior to bidding, the risk of an inadvertent omission of such provisions is on Architect.

8.4 Architect shall place in its sub-consulting agreements and cause its Sub-consultants to agree to indemnities and insurance obligations (except insurance limits) in favor of Owner and other Indemnitees in the exact form and substance of those contained in this Agreement.

8.5 Owner acknowledges that the discovery, presence, handling or removal of asbestos products, polychlorinated biphenyl (PCB) or other hazardous substances which may presently exist at the Project site is outside of Architect's responsibilities and expertise and is not included in the scope of Services Architect is to perform nor included in Architect's insurance. Owner shall hire an expert consultant in this field if the Project involves such materials. Architect shall not be responsible or be involved in any way with the discovery, presence, handling or removal of such materials. Architect shall be responsible to coordinate with Owner's expert consultant as required by Article2.2.13 below2.3ofAppendix A, Services to be Provided by Architect.

9. Liability of Owner

9.1 Except as provided in Appendix A, Services to be Provided by Architect and Appendix E, Insurance, Owner's obligations under this Agreement shall be limited to the payment of the compensation provided for in Paragraphs 3, 4 and 5of this Agreement.

9.2 Notwithstanding any other provision of this Agreement, in no event shall Owner be liable, regardless of whether any claim is based on contract, tort or otherwise, for any special, consequential, indirect or incidental damages, lost profits or revenue, arising out of or in connection with this Agreement, the Services, or the Project.

9.3 Owner shall not be responsible for any damage to persons or property as a result of the use, misuse or failure of any equipment used by Architect, or by any of its employees, even though such equipment be furnished, rented or loaned to Architect by Owner. The acceptance or use of such equipment by Architect or any of its employees shall be construed to mean that Architect accepts full responsibility for and shall exonerate, indemnify, defend and save harmless Owner from and against any and all claims for any damage or injury of any type, including attorneys' fees, arising from the use, misuse or failure of such equipment, whether such damage be to the Architect, its employees, Owner employees or third parties, or to property belonging to any of the above.

9.4 Nothing in this Agreement shall constitute a waiver or limitation of any right or remedy, whether in equity or at law, which Owner or Architect may have under this Agreement or any applicable law. All rights and remedies of Owner or Architect, whether under this Agreement or other applicable law, shall be cumulative.

10. Independent Contractor; Payment of Taxes and Other Expenses

10.1 Architect shall be deemed at all times to be an independent contractor and shall be wholly responsible for the manner in which Architect performs the Services required of Architect by the terms of this Agreement. Architect shall be fully liable for the acts and omissions of it its Sub-consultants, its employees and its agents.

10.2 Nothing contained herein shall be construed as creating an employment, agency or joint venture relationship between Owner and Architect. Architect acknowledges that neither it nor any of its employees or agents shall, for any purpose whatsoever, be deemed to be Owner employees, and shall not be entitled to receive any benefits conferred on Owner employees, including without limitation workers' compensation, pension, health, insurance or other benefits.

10.3 Architect shall be solely responsible for payment of any required taxes, including California sales and use taxes, city business taxes and United States income tax withholding and social security taxes, levied upon this Agreement, the transaction, or the Services delivered pursuant hereto.

10.4 Architect shall make its designated representative available as much as reasonably possible to Owner staff during the Owner's normal working hours or as otherwise requested by Owner. Terms in this Agreement referring to direction from Owner shall be construed as providing for direction as to policy and the result of Architect's Services only and not as to the means by which such a result is obtained.

11. Insurance

11.1 Prior to execution of this Agreement, Architect shall furnish to Owner Certificates of Insurance showing satisfactory proof that it maintains the insurance required by this Contract as set forth in Appendix E, Insurance, which is attached and made a part of this Agreement. Architect shall maintain all required insurance throughout the term of this Agreement and as otherwise provided in Appendix E. In the event Architect fails to maintain any required insurance, and notwithstanding Paragraph4.5 above, Owner may (but is not obligated to) purchase such insurance and deduct or retain premium amounts from any sums due Architect under this Agreement (or Architect shall promptly reimburse Owner for such expense).

12. Suspension of Services

12.1 Owner may, without cause, order Architect to suspend, delay or interrupt Services pursuant to this Agreement, in whole or in part, for such periods of time as Owner may determine in its sole discretion. Owner shall deliver to Architect written notice of the extent of the suspension at least seven (7) calendar days before the commencement thereof. Suspension shall be treated as an

Excusable Delay and Architect shall be compensated for such delay to the extent provided under this Agreement.

12.2 Notwithstanding anything to the contrary contained in this Paragraph12, no compensation shall be made to the extent that performance is, was or would have been so suspended, delayed or interrupted by a cause for which Architect is responsible.

13. Termination of Agreement for Cause

13.1 If at any time Owner believes Architect may not be adequately performing its obligations under this Agreement, that Architect may fail to complete the Services as required by this Agreement, or has provided written notice of observed deficiencies in Architect's performance, Owner may request from Architect prompt written assurances of performance and a written plan acceptable to Owner to correct the observed deficiencies in Architect's performance (**"Cure Plan"**). The Cure Plan must include, as applicable, evidence of necessary resources, correction plans, Sub-consultant commitments, schedules and recovery schedules, and affirmative commitments to correct the asserted deficiencies, must meet all applicable requirements and show a realistic and achievable plan to cure the breach. Architect shall provide such written assurances and Cure Plan within ten (10) calendar days of the date of notice of written request. Architect acknowledges and agrees that any failure to provide written assurances and Cure Plan to correct observed deficiencies, in the required time, is a material breach under this Agreement.

13.2 Architect shall be in default of this Agreement and Owner may, in addition to any other legal or equitable remedies available to Owner, terminate Architect's right to proceed under the Agreement, in whole or in part, for cause:

a. Should Architect make an assignment for the benefit of creditors, admit in writing its inability to pay its debts as they become due, file a voluntary petition in bankruptcy, be adjudged a bankrupt or insolvent, file a petition or answer seeking for itself any reorganization, arrangement, composition, readjustment, liquidation, dissolution, or similar relief under any present or future statute, law, or regulation, file any answer admitting or not contesting the material allegations of a petition filed against Architect in any such proceeding, or seek, consent to, or acquiesce in, the appointment of any trustee, receiver, custodian or liquidator of Architect or of all or any substantial part of the properties of Architect, or if Architect, its directors or shareholders, take action to dissolve or liquidate Architect; or

b. Should Architect commit a material breach of this Agreement and not cure such breach within ten (10) calendar days of the date of notice from Owner to Architect demanding such cure; or, if such failure is curable but not curable within such ten (10) day period, within such period of time as is reasonably necessary to accomplish such cure. (In order for Architect to avail itself of this time period in excess of ten (10) calendar days, Architect must provide Owner within the ten (10) calendar day period a written Cure Plan acceptable to Owner to cure said breach, Owner must approve of such plan, and then Architect must diligently commence and continue such cure according to the written Cure Plan.); or

c. Should Architect violate or allow a violation of any valid law, statute, regulation, rule, ordinance, permit, license or order of any governmental agency in effect at the time of performance of the Services and applicable to the Project or Services and does not cure such violation within ten (10) calendar days of the date of the notice from Owner to Architect demanding such cure; or, if such failure is curable but not curable within such ten (10) calendar day period, within such period of time as is reasonably necessary to accomplish such cure. (In order for Architect to avail itself of this time period in excess of ten (10) calendar days, Architect must provide Owner within the ten (10) calendar day period a written Cure Plan acceptable to Owner, and then Architect must diligently commence and continue performance of such cure according to the written Cure Plan.)

13.3 In the event of termination by Owner as provided herein for cause:

a. Owner shall compensate Architect for the value of the Services delivered to Owner upon termination as determined in accordance with the Agreement, subject to all rights of offset and back charges, but Owner shall not compensate Architect for its costs in terminating the Services or any cancellation charges owed to third parties;

b. Architect shall deliver to Owner possession of all tangible aspects of the Services in their then condition including, but not limited to, all copies (electronic, CAD, and PDF format, and hard copy) of designs, engineering, Project records, cost data of all types, drawings and specifications and contracts with vendors and Sub-consultants, and all other documentation associated with a Project, and all supplies and aids dedicated solely to performing Services which, in the normal course of the Services, would be consumed or only have salvage value at the end of the Services period.

c. Architect shall remain fully liable for the failure of any Services completed and drawings and specifications provided through the date of such termination to comply with the provisions of the Agreement. The provisions of this Paragraph shall not be interpreted to diminish any right that Owner may have to claim and recover damages for any breach of this Agreement, but rather, Architect shall compensate Owner for all loss, cost, damage, expense, and/or liability suffered by Owner as a result of such termination and failure to comply with the Agreement, including without limitation, Owner's costs incurred in connection with finding a replacement.

13.4 In the event a termination for cause is determined to have been made wrongfully or without cause, then the termination shall be treated as a termination for convenience pursuant to Paragraph14 below, and Architect shall have no greater rights than it would have had if a termination for convenience had been effected in the first instance. No other loss, cost, damage, expense or liability may be claimed, requested or recovered by Architect.

14. Termination of Agreement for Convenience

14.1 Owner may terminate performance of the Services under the Agreement in accordance with this Paragraph14in whole, or from time to time in part, whenever Owner shall determine that termination is in the Owner's best interests. Termination shall be effected by Owner delivering to Architect, at least seven (7) calendar days prior to the effective date of the termination, a Notice of Termination (**"Notice of Termination"**) specifying the extent to which performance of the Services under the Agreement is terminated.

14.2 After receipt of a Notice of Termination, and except as otherwise directed by Owner, Architect shall:

a. Stop Services under the Agreement on the date and to the extent specified in the Notice of Termination;

b. Place no further orders or subcontracts (including agreements with Sub-consultants) for materials, Services, or facilities except as necessary to complete the portion of the Services under the Agreement which is not terminated;

c. Terminate all orders and subcontracts to the extent that they relate to performance of Services terminated by the Notice of Termination;

d. Assign to Owner in the manner, at times, and to the extent directed by Owner, all right, title, and interest of Architect under orders and subcontracts so terminated. Owner shall have the right, in its discretion, to settle or pay any or all claims arising out of termination of orders and subcontracts;

e. Settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, with approval or ratification of Owner to the extent Owner may require. Owner's approval or ratification shall be final for purposes of this clause;

f. Transfer title and possession of Architect's and Architect's Sub-consultants' work product to Owner, and execute all required documents and take all required actions to deliver in the manner, at times, and to the extent, if any, directed by Owner, completed and uncompleted designs and specifications, Services in process, completed Services, supplies, and other material produced or fabricated as part of, or acquired in connection with performance of, Services terminated by the Notice of Termination (including mockups and model(s)), completed or partially completed plans, drawings, information, in hard-copy and electronic CAD, and PDF format[for consideration], all intellectual property rights (including without limitation, to the extent applicable, all licenses and copyright, trademark and patent rights) and all other property and property rights which, if the Agreement had been completed, would have been required to be furnished to Owner; Owner acknowledges that said documents were prepared for the purpose of the Project.

g. Use its best efforts to assist Owner in selling, in the manner, at times, to the extent, and at a price or prices that Owner directs or authorizes, any property of the types referred to in Paragraph14.2f above, but Architect shall not be required to extend credit to any purchaser, and may acquire any such property under conditions prescribed and at a price or prices approved by Owner. All proceeds from the foregoing shall be applied to reduce payments to be made by Owner to Architect under this Agreement, shall otherwise be credited to the price or cost of Services covered by this Agreement or be paid in such other manner as Owner may direct;

h. Complete performance of any part of the Services that were not terminated by the Notice of Termination; and

i. Take such action as may be necessary, or as Owner may direct, for the protection and preservation of property related to this Agreement which is in Architect's possession and in which Owner has or may acquire an interest.

14.3 After receiving a Notice of Termination, Architect shall submit to Owner a termination claim, in the form and with the certification Owner prescribes. The claim shall be submitted promptly, but in no event later than three months from the effective date of the termination, unless one or more extensions in writing are granted by Owner upon Architect's written request made within such three month period or authorized extension. However, if Owner determines that facts justify such action, it may receive and act upon any such termination claim at any time after such three month period or extension. If Architect fails to submit the termination claim within the time allowed, Owner may determine, on basis of information available to it, the amount, if any, due to Architect because of the termination. Owner shall then pay to Architect the amount so determined.

14.4 Subject to provisions of Paragraph14.3 above, Architect and Owner may agree upon the whole or part of the amount or amounts to be paid to Architect because of any termination of Services under this Paragraph. The amount or amounts may include a reasonable allowance for profit on Services done. However, such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total Agreement price as reduced by the amount of payments otherwise made and as further reduced by the Agreement price of Services terminated. The Agreement may be amended accordingly, and Architect shall be paid the agreed amount.

14.5 If Architect and Owner fail, under Paragraph14.4 above, to agree on the whole amount to be paid to Architect because of termination of Services under this Paragraph14.5, then Architect's entitlement to compensation for Services specified in the Agreement which are performed before the effective date of Notice of Termination, shall be the total (without duplication of any items) of:

a. Reasonable value of Architect's Services performed prior to Notice of Termination, based on Architect's entitlement to compensation under Appendix B, Payments to Architect. Such amount

or amounts shall not exceed the total Agreement price as reduced by the amount of payments otherwise made and as further reduced by the Agreement value of Services terminated. Deductions against such amount or amounts shall be made for deficiently performed Services, rework caused by deficiently performed Services, cost of materials to be retained by Architect, amounts realized by sale of materials, and for other appropriate credits against cost of Services. Such amount or amounts may include profit, but not in excess of ten (10) percent of Architect's total costs of performing the Services.

b. When, in opinion of Owner, the cost of any item of Services is excessively high due to costs incurred to remedy or replace defective or rejected Services (including having to re-perform Services), reasonable value of Architect's Services will be the estimated reasonable cost of performing Services in compliance with the requirements of the Agreement, and any excessive actual cost shall be disallowed.

c. Reasonable cost to Architect of handling material returned to vendors, delivered to Owner or otherwise disposed of as directed by Owner.

14.6 Except as provided in this Agreement, in no event shall Owner be liable for costs incurred by Architect (or Sub-consultants) after receipt of a Notice of Termination. Such non-recoverable costs include, but are not limited to, anticipated profits on the Agreement or subcontracts, post-termination employee salaries, post-termination administrative expenses, post-termination overhead or unabsorbed overhead, costs of preparing and submitting claims or proposals, attorney's fees or other costs relating to prosecution of the claim or a lawsuit, pre-judgment interest, or any other expense that is not reasonable or authorized under Paragraph14.5 above.

14.7 This Paragraph shall not prohibit Architect from recovering costs necessary to discontinue further Services under the Agreement as provided for in Paragraph14.2 above or costs authorized by Owner to settle claims from Sub-consultants.

14.8 In arriving at amount due Architect under this Paragraph14.5 there shall be deducted:

a. All unliquidated advance or other payments on account theretofore made to Architect, applicable to the terminated portion of Agreement,

b. Any substantiated claim that Owner may have against Architect in connection with this Agreement, and

c. The agreed price for, or proceeds of sale of, any materials, supplies, or other things kept by Architect or sold under the provisions of this Paragraph14.5, and not otherwise recovered by or credited to Owner.

14.9 If the termination for convenience hereunder is partial, before settlement of the terminated portion of this Agreement, Architect may file with Owner a request in writing for equitable adjustment of price or prices specified in the Agreement relating to the portion of this Agreement that is not terminated. Owner may, but shall not be required to, agree on any such equitable adjustment. Nothing contained herein shall limit the right of Owner and Architect to agree upon amount or amounts to be paid to Architect for completing the continued portion of the Agreement when the Agreement does not contain an established price for the continued portion. Nothing contained herein shall limit Owner's rights and remedies pursuant to this Agreement or at law.

15. Conflicts of Interest/Other Agreements

15.1 Architect represents that it is familiar with Section 1090 and Section 87100, et seq., of the Government Code of the State of California, and that it does not know of any facts that constitute a violation of those sections.

15.2 Architect represents that it has completely disclosed to Owner all facts bearing upon any possible interests, direct or indirect, which Architect believes any member of Owner, or other officer, agent or employee of Owner or any department presently has, or will have, in this Agreement, or in the performance thereof, or in any portion of the profits thereunder. Willful failure to make such disclosure, if any, shall constitute ground for termination of this Agreement by Owner for cause. Architect shall comply with the Owner's conflict of interest codes and their reporting requirements.

15.3 Architect covenants that it presently has no interest, and during the term of this Agreement shall not have any interest, direct or indirect, that would conflict in any manner with the performance of Services required under this Agreement. Without limitation, Architect represents to and agrees with the Owner that Architect has no present, and in the future during the term of this Agreement will not have any, conflict of interest between providing the Owner the Services hereunder and any interest Architect may presently have, or will have in the future, with respect to any other person or entity (including, but not limited to, any federal or state wildlife, environmental or regulatory agency) that has any interest adverse or potentially adverse to the Owner, as determined in the reasonable judgment of the Owner.

16. Proprietary or Confidential Information of Owner; Publicity

16.1 Architect acknowledges and agrees that, in the performance of the Services under this Agreement or in the contemplation thereof, Architect may have access to private or confidential information that may be owned or controlled by Owner and that such information may contain proprietary or confidential details, the disclosure of which to third parties may be damaging to Owner. Architect agrees that all private, confidential, or proprietary information disclosed by Owner to or discovered by Architect in the performance of it Services shall be held in strict confidence and used only in performance of the Agreement. Architect shall exercise the same standard of care to protect such information as a reasonably prudent Architect would use to protect its own proprietary data, and shall not accept employment adverse to the Owner's interests where such confidential information could be used adversely to the Owner's interests. Architect shall notify the Owner immediately in writing if it is requested to disclose any information made known to or discovered by Architect during the performance of or in connection with the Services pursuant to this Agreement.

16.2 Any publicity or press releases with respect to the Projector Services shall be under the Owner's sole discretion and control. Architect shall not discuss the Services, the Project, or matters pertaining thereto, with the public press, representatives of the public media, public bodies or representatives of public bodies, without Owner's prior written consent. Architect shall have the right, however, without Owner's further consent, to include representations of Services among Architect's promotional and professional material, and to communicate with persons or public bodies where necessary to perform under this Agreement.

16.3 The provisions of this Paragraph16 shall remain fully effective indefinitely after termination of Services to the Owner hereunder.

17. Notices to the Parties

17.1 All notices (including requests, demands, approvals or other communications other than Ordinary course Project communications) under this Agreement shall be in writing and shall include the word "NOTICE" in the subject line.

17.2 Notice shall be sufficiently given for all purposes as follows:

a. When personally delivered to the recipient, notice is effective on delivery.

b. When mailed by certified mail with return receipt requested, notice is effective on receipt if delivery is confirmed by a return receipt.

c. When delivered by reputable delivery service, with charges prepaid or charged to the sender's account, notice is effective on delivery if delivery is confirmed by the delivery service.

d. Notice by facsimile or electronic mail shall not be allowed or constitute "Notice" under this Paragraph 17.

17.3 Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified shall be considered to be effective as of the first date that the notice was refused, unclaimed, or considered undeliverable by the postal authorities, messenger, or overnight delivery service.

17.4 Addresses for the purpose of giving notice are set forth in Paragraph 6.1 above. Either party may, by written notice given at any time or from time to time require subsequent notices to be given to another individual person, whether a party or an officer or a representative, or to a different address or fax number, or both, by giving the other party notice of the change in any manner permitted by this Paragraph 17.

18. Ownership of Results/Work for Hire

18.1 Any interest (including, but not limited to, property interests and copyright interests) of Architect or its Sub-consultants, in drawings, plans, specifications, studies, reports, memoranda, computational sheets or other documents (including but not limited to, electronic media) prepared by Architect or its Sub-consultants in connection with Services to be performed under this Agreement shall become the property of and will be transmitted to Owner upon their creation. Architect may, however, retain one copy for its files. Notwithstanding the foregoing, in the normal course of the Architect's activities, Architect shall have an unrestricted right to reuse its standard construction drawings, details, specifications and other related documents, including the right to retain electronic data or other reproducible copies thereof, and the right to reuse portions of the information contained in them which is incidental to the overall design of any Project.

18.2 Any and all artworks, copy, posters, billboards, photographs, videotapes, audiotapes, systems designs, software, reports, diagrams, surveys, source codes or any original works of authorship created by Architect or its Sub-consultants in connection with Services performed under this Agreement shall be Works for Hire as defined under Title 17 of the United States Code, and all copyrights in such works are the property of Owner. In the event that it is ever determined that any works created by Architect or its Sub-consultants under this Agreement are not Works for Hire under U.S. law, Architect hereby assigns to Owner all copyrights to such works. With Owner's prior written approval, Architect may retain and use copies of such works for reference and as documentation of its experience and capabilities.

18.3 Both parties understand and agree that Owner must comply with the California Public Records Act (**"Act"**). If Architect believes that any document or information furnished to Owner in connection with Architect's performance of Services is exempt from public disclosure under the Act, it shall so advise Owner in writing at the time the document or information is furnished.

19. Audit and Inspection Records

19.1 Architect shall maintain all drawings, specifications, calculations, cost estimates, quantity takeoffs, statements of construction costs and completion dates, schedules and all correspondence, internal memoranda, papers, writings, electronic media and documents of any sort prepared by or furnished to Architect during the course of performing the Services and providing services with respect to any Project, for a period of at least five years following final completion and acceptance of the last Project. All such records (except for materials subject to the attorney client privilege, if any) shall be available to Owner, and Owner's authorized agents, officers, and employees, upon request at reasonable times and places. Monthly records of Architect's personnel costs, Architect costs, and

reimbursable expenses pertaining to both Basic Services, and Additional Services shall be kept on a generally recognized accounting basis, and shall be available to Owner, and Owner's authorized agents, officers, and employees, upon request at reasonable times and places. Architect shall not destroy any Project records until after advising Owner and allowing Owner to accept and store the records.

19.2 Architect shall maintain full and adequate records in accordance with Owner requirements to show actual costs incurred by Architect in its performance of this Agreement, and to make available to Owner during business hours accurate ledgers, books of accounts, invoices, vouchers, cancelled checks, and accounting and other books, records and documents evidencing or relating to all expenditures and disbursements charged to Owner or relative to Architect's activities under this Agreement. Architect will furnish to Owner, its authorized agents, officers and employees such other evidence or information as Owner may request with regard to any such expenditure or disbursement charged by Architect. Architect will, within seven (7) calendar days from the date of Owner's written request, permit Owner, and Owner's authorized agents, officers, and employees, to audit, examine and make copies, excerpts and transcripts from such items, and to make audits of all invoices, materials, payrolls, records or personnel and other data related to all other matters covered by this Agreement, whether funded in whole or in part under this Agreement.

19.3 Architect shall maintain all items described in this Paragraph19 in an accessible location and condition for a period of not less than five years after final completion and acceptance of the [last] Project or until after final audit has been resolved, whichever is later. If such items are not kept and maintained by Architect within a radius of fifty (50) miles from Owner's offices at Redwood City, California, Architect shall, upon Owner's request and at Architect's sole cost and expense, make such items available to Owner, and Owner's authorized agents, officers, and employees, for inspection at a location within said fifty (50) mile radius, or Architect shall pay Owner its reasonable and necessary costs incurred in inspecting Architect's books and records including, but not limited to, travel, lodging and subsistence costs. The State of California and any other governmental agency having an interest in the subject of this Agreement shall have the same rights conferred upon Owner by this Paragraph.

19.4 The rights and obligations established pursuant to this Paragraph shall be specifically enforceable and survive termination of this Agreement.

20. Subcontracting/Assignment/Owner Employees

20.1 Architect and Owner agree that Architect's unique talents, knowledge and experience form a basis for this Agreement and that the Services to be performed by Architect under this Agreement are personal in character. Therefore, Architect shall not subcontract, assign or delegate any portion of this Agreement or any duties or obligations hereunder unless approved by Owner in a written instrument executed and approved by the Owner in writing. Neither party shall, on the basis of this Agreement, contract on behalf of or in the name of the other party. Any agreement that violates this Paragraph20.1shall confer no rights on any party and shall be null and void.

20.2 Architect shall use the Sub-consultants identified in this Agreement or an Exhibit hereto and shall not substitute Sub-consultants unless approved by written instrument executed and approved by the Owner in writing.

20.3 To the extent Architect is permitted by Owner in writing to subcontract, assign or subcontract any portion of this Agreement or any duties or obligations hereunder, Architect shall comply with all applicable prompt payment laws and regulations (including, without limitation, California Civil Code, Section 3321). Architect shall remain fully liable and responsible for all acts and omissions of its Sub-consultants in connection with the Services or the Project, as if it engaged it the acts and omissions directly.

20.4 Architect shall not employ or engage, or attempt to employ or engage, any person who is or was

employed by Owner or any department thereof at any time that this Agreement is in effect, and for a period of two years after the termination of this Agreement or the completion of the Services, without the written consent of Owner.

21. Other Obligations

21.1 Discrimination, Equal Employment Opportunity and Business Practices. Architect shall not discriminate against any employee or applicant for employment, nor against any Sub-consultant or applicant for a subcontract, because of race, color, religious creed, age, sex, actual or perceived sexual orientation, national origin, disability as defined by the ADA (as defined below) or veteran's status. To the extent applicable, Architect shall comply with all federal, state and local laws (including, without limitation, Owner ordinances, rules and regulations) regarding non-discrimination, equal employment opportunity, affirmative action and occupational-safety-health concerns, shall comply with all applicable rules and regulations thereunder, and shall comply with same as each may be amended from time to time. With respect to the provision of employee benefits, Architect shall comply with San Mateo County Ordinance Code which prohibits contractors (as defined in that ordinance) from discriminating in the provision of employee benefits between an employee with a domestic partner and an employee with a spouse.

21.2 Drug-Free Workplace Policy. Architect acknowledges that pursuant to the Federal Drug-Free Workplace Act of 1989, the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited on Owner premises. Architect agrees that any violation of this prohibition by Architect, its employees, agents or assigns shall be deemed a material breach of this Agreement.

21.3 Compliance with Americans with Disabilities and Rehabilitation Act. Architect acknowledges that, pursuant to the Americans with Disabilities Act (**"ADA"**), programs, services and other activities provided by a public entity to the public, whether directly or through a contractor, must be accessible to the disabled public. Architect shall provide the Services specified in this Agreement in a manner that complies with the standard of care established under this Agreement regarding the ADA and any and all other applicable federal, state and local disability rights legislation. Architect agrees not to discriminate against disabled persons in the provision of services, benefits or activities provided under this Agreement and further agrees that any violation of this prohibition on the part of Architect, its employees, agents or assigns shall constitute a material breach of this Agreement. Architect shall comply with § 504 of the Rehabilitation Act of 1973, which provides that no otherwise qualified handicapped individual shall, solely by reason of a disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination in the performance of this Agreement.

21.4 Employee Jury Service Ordinance. Architect shall comply with San Mateo County Ordinance Code with respect to provision of jury duty pay to employees and have and adhere to a written policy that provides that its employees shall receive from the Architect, on an annual basis, no less than five days of regular pay for actual jury service in San Mateo County. The policy may provide that employees' deposit any fees received for such jury service with the Architect or that the Architect deducts from the employees' regular pay the fees received for jury service.

21.5 Violation of Non-discrimination Provisions. Violation of the non-discrimination provisions of this Agreement shall be considered a breach of this Agreement and subject the Architect to penalties, to be determined by Owner's County Manager, including but not limited to: (a) termination of this Agreement; (b) disqualification of the Architect from bidding on or being awarded a County contract for a period of up to 3 years; (c) liquidated damages of $2,500 per violation; and/or (d) imposition of other appropriate contractual and civil remedies and sanctions, as determined by the County Manager. To effectuate the provisions of this section, the County Manager shall have the authority to examine Architect's employment records with respect to compliance with this paragraph and/or to set off all or any portion of the amount described in this paragraph against amounts due to Architect under this Agreement or any other agreement between Architect and Owner. Architect shall report to the County Manager the filing by any person in any court of any complaint of discrimination or the

filing by any person of any and all charges with the Equal Employment Opportunity Commission, the Fair Employment and Housing Commission or any other entity charged with the investigation of allegations within 30 days of such filing, provided that within such 30 days such entity has not notified Architect that such charges are dismissed or otherwise unfounded. Such notification shall include the name of the complainant, a copy of such complaint, and a description of the circumstance. Architect shall provide Owner with a copy of Architect's response to the complaint when filed.

22. Disputes

22.1 Should any question arise as to the meaning and intent of this Agreement, the question shall, prior to any other action or resort to any other legal remedy, be referred to the Project Executive and a principal of the Architect who shall attempt, in good faith, to resolve the dispute. Such referral shall be initiated by written request from either party and a meeting between the Project Executive and principal of the Architect shall then take place within five (5) days of the date of the request.

Provided that Owner continues to compensate Architect in accordance with this Agreement, Architect shall continue its Services throughout the course of any and all disputes. Nothing in this Agreement shall allow Architect to discontinue Services during the course of any dispute. Architect's failure to continue Services during any and all disputes shall be considered a material breach of this Agreement. Architect agrees that the existence or continued existence of a dispute does not excuse performance under any provision of this Agreement including, but not limited to, the time to complete the Services. Architect also agrees that should Architect discontinue Services due to a dispute or disputes, Owner may terminate this Agreement for cause as provided herein.

22.2 In the event of claims exceeding **[$50,000]**, as a precondition to commencing litigation, the parties shall first participate in non-binding mediation pursuant to the construction mediation procedures of JAMS, in San Francisco, California, before a mediator mutually agreeable to the parties (and such mediator need not be employed by or affiliated with JAMS), and in the event the parties are unable to agree, selected by a judge of the San Mateo County Superior Court from an approved list of JAMS qualified construction mediators. The parties may initially agree to engage in discovery prior to mediation. Should parties proceed with discovery, they shall follow the procedures prescribed in the California Code of Civil Procedure, Section 2019, et. seq., and discovery so conducted shall apply in any subsequent litigation as if conducted in that litigation.

23. Agreement Made in California; Venue

23.1 This Agreement shall be deemed to have been executed in the City of Redwood City, County of San Mateo. The formation, interpretation and performance of this Agreement shall be governed by the laws of the State of California, excluding its conflict of laws rules. The exclusive venue for all disputes or litigation arising out of this Agreement shall be in the Superior Court of the County of San Mateo unless the parties agree otherwise in a written amendment to this Agreement.

23.2 The parties shall execute **two** originals of this Agreement, both of which shall be deemed originals.

24. Compliance with Laws

24.1 Architect shall comply with the Standard of Care in the interpretation and application of all applicable laws in the performance of the Services, regardless of whether such laws are specifically stated in this Agreement and regardless of whether such laws are in effect on the date hereof. Architect shall comply with all security requirements imposed by authorities with jurisdiction over any Project, and will provide all information, work histories and/or verifications as requested by such authorities for security clearances or compliance.

24.2 Architect represents that all plans, drawings, specifications, designs and any other product of the Services will comply with all applicable laws, codes and regulations and be consistent with the

Standard of Care.

25. Miscellaneous

25.1 All section and paragraph captions are for reference only and shall not be considered in construing this Agreement.

25.2 As between the parties to this Agreement: as to all acts or failures to act by either party to this Agreement, any applicable statute of limitations shall commence to run on the date of issuance by Owner of the final Certificate for Payment, or termination of this Agreement, whichever is earlier. This Paragraph25.2shall not apply to latent defects as defined by California law or negligence claims, as to which the statute of limitations shall commence to run on discovery of the defect and its cause. However, the applicable statutes of repose, California Code of Civil Procedure, Sections 337.1 and 337.15, shall continue to apply.

25.3 Any provisions or portion thereof of this Agreement that is prohibited by, unlawful or unenforceable under any applicable law of any jurisdiction, shall as to such jurisdiction be ineffective without affecting other provisions of this Agreement. If the provisions of such applicable law may be waived, they are hereby waived to the end that this Agreement may be deemed to be a valid and binding agreement enforceable in accordance with its terms. If any provisions or portion thereof of this Agreement are prohibited by, unlawful, or unenforceable under any applicable law and are therefore stricken or deemed waived, the remainder of such provisions and this Agreement shall be interpreted to achieve the goals or intent of the stricken or waived provisions or portions thereof to the extent such interpretation is consistent with applicable law. In dispute resolution arising from this Agreement, the fact finder shall receive detailed instructions on the meaning and requirements of this Agreement.

25.4 Either party's waiver of any breach, or the omission or failure of either party, at any time, to enforce any right reserved to it, or to require performance of any of the terms, covenants, conditions or other provisions of this Agreement, including the timing of any such performance, shall not be a waiver of any other right to which any party is entitled, and shall not in any way affect, limit, modify or waive that party's right thereafter to enforce or compel strict compliance with every term, covenant, condition or other provision hereof, any course of dealing or custom of the trade or oral representations notwithstanding.

25.5 Except as expressly provided in this Agreement, nothing in this Agreement shall operate to confer rights or benefits on persons or entities not party to this Agreement. Time is of the essence in the performance of this Agreement.

26. Entire Agreement; Modifications

26.1 The Agreement, and any written modification to the Agreement, shall represent the entire and integrated Agreement between the parties hereto regarding the subject matter of this Agreement and shall constitute the exclusive statement of the terms of the parties' Agreement. The Agreement, and any written modification to the Agreement, shall supersede any and all prior negotiations, representations or agreements, either written or oral, express or implied, that relate in any way to the subject matter of this Agreement or written modification, and the parties represent and agree that they are entering into this Agreement and any subsequent written modification in sole reliance upon the information set forth in the Agreement or written modification and the parties are not and will not rely on any other information. All prior negotiations, representations or agreements, either written or oral, express or implied, that relate in any way to the subject matter of this Agreement, shall not be admissible or referred to hereafter in the interpretation or enforcement of this Agreement.

26.2 To the extent this Agreement conflicts with the terms of any proposal, invoice, or other document submitted to or by either party, the terms of this Agreement shall control.

26.3 This Agreement may not be modified, nor may compliance with any of its terms be waived, except by written instrument executed and approved by a fully authorized representative of both Owner and Architect expressing such an intention in the case of a modification or by the party waiving in the case of a waiver.

26.4 Architect, in any price proposals for changes in the Services that increase the Agreement amount, or for any additional Services, shall break out and list its costs and use percentage markups. Architect shall require it's Sub-consultants (if any) to do the same, and the Sub-consultants' price proposals shall accompany Architect's price proposals.

26.5 Architect and its Sub-consultants shall, upon request by Owner, permit inspection of all original unaltered Agreement bid estimates, subcontract Agreements, purchase orders relating to any change, and documents substantiating all costs associated with all cost proposals.

26.6 Changes in the Services made pursuant to this Paragraph26and extensions of the Agreement time necessary by reason thereof shall not in any way release Architect's representations and agreements pursuant to this Agreement.

26.7 Whenever the words **"as directed"**, **"as required"**, **"as permitted"**, or words of like effect are used, it shall be understood as the direction, requirement, or permission of Owner. The words **"approval"**, **"acceptable"**, **"satisfactory"**, or words of like import, shall mean approved by, or acceptable to, or satisfactory to Owner, unless otherwise indicated by the context.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day first mentioned above.

"Owner" COUNTY OF SAN MATEO, a political subdivision of the State of California

By:_____

Its:

"Architect" By:_____

Its:_____

By:_____

Its:_____

SERVICES TO BE PROVIDED BY ARCHITECT

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APPENDIX A

SERVICES TO BE PROVIDED BY ARCHITECT

This is an Appendix attached to, and made a part of and incorporated by reference with the Agreement dated May __, 2012, between the County of San Mateo (the **"Owner"**), and Hellmuth, Obata & Kassabaum, Inc. (**"Architect"**) providing for professional services.

1. Conceptual Program and Project Under this Agreement

1.1 General

1.1.1. The Project is described as follows:

The County's Replacement Correctional Facility will be located on an approximately 4.85-acre site within Redwood City, CA. The Project will initially house 576 beds (including 88 non-secure transitional beds) with future expansion to 832 beds. The Project scope also includes remediation of a brownfield site, demolition of existing structures, and certain on- and offsite improvements to prepare the site for development.

1.1.2. Owner anticipates that the construction management services will be performed by a Construction Manager to be engaged by the Owner approximately concurrently with the selection of Architect. Owner further anticipates that the actual Project work will be performed by separate trade sub-contractors who will be selected utilizing an estimated 15-30 separate bid packages after selection of the Construction Manager and completion of Architect's final designs.

1.2 Construction Budget

The agreed upon **"Budgeted Bid Day Construction Cost"** above means the anticipated value of the construction contract for the Project when initially let. Architect shall treat the Budgeted Bid Day Construction Cost so identified as the Owner's required construction cost for the Project. In performing its Services under this Agreement, Architect shall include within the Budgeted Bid Day Construction Cost design contingency amounts as follows: 15% during schematic design; 10% during design development; and 5% during construction documents.

1.3 Criteria Governing Architect's Services on Project

1.3.1 The Project shall be developed and designed in conformance with the Needs Assessment Study ("Needs Assessment Study") submitted to the Corrections Standards Authority ("CSA") by the County, a copy of which has been provided to the Architect.

1.3.2 The Project shall be developed and designed in close cooperation with the County's Sheriff's Office and its consultants. Architect acknowledges its obligation to work with, coordinate with, interface with, exchange ideas and design materials with, and otherwise cooperate and collaborate with the Sheriff's Office, its independent consultants, including personnel required for transition from Owner's prior adult detention facility to the Project facility, and operational matters throughout development and design of the Project.

1.3.3 The Project shall be developed and designed to meet all applicable and the most current codes, laws, regulations, and professional standards, consistent with the

standard of care of an Architect with experience in California adult detention facility design, and shall meet the criteria set forth below.

1.3.4 Architect shall not, unless otherwise permitted in writing by Project Executive, propose or recommend any design which has the effect of shifting design responsibilities from Architect to a contractor, through performance specifications or any other means. Performance specifications will be allowed only when necessary to preclude single vendor sources.

1.3.5 During the pre-construction phase, the Architect will collaborate with Construction Manager Contractor selected by the County on the design, constructability, cost, and schedule of the Project as the Construction Manager develops a Not to Exceed proposal to construct the Project.

1.3.6 Architect shall not, unless otherwise directed or permitted in writing by Project Executive, specify unique, innovative, proprietary or sole source equipment, systems or materials. Whenever a proprietary or sole source design or equipment is requested by Architect, Architect shall provide Owner with a written evaluation of whether all periodic maintenance and replacement of parts, equipment or systems, can be performed normally and without excessive cost or time. Owner will consider such report in making its decision. If requested by Owner, as Basic Services, Architect shall comment on any Owner-proposed unique, innovative, proprietary or sole source equipment, systems or materials.

1.3.7 Architect's design shall provide that all surfaces, fixtures and equipment are readily accessible for maintenance, repair or replacement by ladders, power lifts, cat walks, and the like without exceeding the design loads of the floors, roofs, ceilings, and that such access is in conformance with applicable portions of CCR Title 8 (Cal OSHA) Subchapter 7 – General Industry Safety Orders, Group 1, General Physical Conditions and Structures. Architect shall allow representatives of the Owner's operation and maintenance departments to review, comment, and participate in meetings regarding Architect's design as necessary to consider their requirements in design development, provided, however, that Architect shall exercise its professional judgment respecting all ultimate design decisions.

1.3.8 Architect must coordinate with other consultants on the Owner's Capital Improvement Program, as directed by Owner's Representative, to specify designs, equipment and systems on a Program-wide basis to secure Program-wide efficiencies and economies in procurement and maintenance. Architect shall not have responsibility for the technical adequacy or accuracy of consultants separately engaged by Owner.

1.4 <u>Building Information Modeling</u>

1.4 Architect shall comply with its obligations regarding Building Information Modeling identified on Attachment BIM attached to this Appendix A and incorporated herein.

1.4.2 Attachment BIM is subject to modification by Owner at Owner's reasonable request. Architect must notify Owner within seven (7) days of receipt of any modification to Attachment BIM if it believes the modification is so extensive as to justify additional services compensation.

2. Basic Services

2.1 Scope

Basic Services shall include all the services and activities specified below and herein in Programming Phase, Schematic Design Phase, Design Development Phase, Construction Document Phase, Bidding Phase, Construction Phase, Operation/Project Close-Out Phase, and Post-Construction Claims Resolution Phase.

2.2 General Description and Requirements

2.2.1 Performance of Services will require Architect to work with, meet with, and attend meetings with Owner staff and sub-consultants, with Inspectors, with Project Executive, with testing agencies, with other governmental agencies, with Construction Manager Contractor, and with such other consultants as Architect determines necessary, to the extent reasonably necessary for the design and construction of the Project and performance of Architect's duties under this Agreement (including, but not limited to, Architect's express duties of coordination with Sub-consultants or other Owner consultants).

2.2.2 Services performed by Architect shall conform to the requirements of the laws of the State of California applicable to construction of adult detention facilities, including, but not limited to, the requirements of the California Business and Professions Code, the Minimum Standards for Adult Detention Facilities contained in Title 15, California Code of Regulations ("**CCR**"), the Minimum Standards for Adult Detention Facilities and the fire and life safety regulations contained in Title 19 and Title 24, Part 2, CCR, Title 8 (Cal OSHA), CCR, the California Penal Code, the California Public Contract Code, and the California Environmental Quality Act (CEQA) contained in California Public Resources Code Section 2100 *et seq*. and California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000 *et seq*. As referenced in those codes, **"Responsible Charge"** for the work shall be with a Licensed Architect or Registered Engineer in the State of California.

2.2.3 Plans, specifications, design calculations, Site data, and cost estimates, if any, required to be prepared by Architect shall be prepared by licensed personnel or personnel under the direction of licensed personnel, as required by the California Public Contract Code and Code of Regulations, and such personnel shall also be in Responsible Charge of observation of the construction, as required by those codes.

2.2.4 Architect shall provide to Owner all professional architectural and engineering services necessary to perform the Services in all phases of the Project to which this Agreement applies. Services will include, but are not limited to, providing all professional architectural and engineering services necessary to perform the Services and complete Project to which this Agreement applies including, but not limited to, all architectural services and all acoustical, civil, electrical, fire protection, mechanical, and structural engineering, medical planning, security, landscape, and cost estimating services required to perform the Services on the Project to which this Agreement applies.

2.2.5 Architect shall have adequate personnel, facilities, equipment and supplies to complete Architect's Services. Architect shall provide all materials to complete its services.

2.2.6 Architect shall engage all appropriate specialty Sub-consultants as are necessary for proper completion of the Services. Architect's contracts with Sub-consultants (and their contracts with their sub-consultants) shall incorporate this contract by

reference to the extent not inconsistent with Sub-consultants' scope of work. Owner shall have the right (but not the obligation) to approve specialty Sub-consultants engaged by Architect as well as their form of contract, which approval shall not be unreasonably withheld.

2.2.7 Architect shall require each of its Sub-consultants to execute agreements containing standard of care and indemnity provisions coextensive with those in this Agreement and that will indemnify and hold Owner harmless from any negligent errors or omissions of the Sub-consultants.

2.2.9 Architect shall make any required corrections or revisions to reports, drawings or specifications that are a result of any errors or omissions by Architect, at no additional cost to Owner. Architect shall make or cause to be made any and all corrections to said documents necessary to comply with the requirements of the California Code of Regulations applicable to adult detention facilities.

2.2.10 Throughout Architect's performance of the Services, Architect shall make written recommendations to Owner concerning any additional information necessary to complete the Services.

2.2.11 Architect shall provide Owner with written evaluations of the effect of any and all governmental and private regulations, licenses, patents, permits, and any other type of applicable restriction and associated requirements on the Services and its incorporation into the Project.

2.2.12 Architect shall provide Owner with a copy of all written communications and submittals to Authorities Having Jurisdiction regarding this Project. Costs of reproduction and transmittal of submittals will be a reimbursable expense.

2.2.13 On all Projects, Architect shall prepare all energy saving calculations and deliverables necessary for Owner to submit to PG&E, CSA, the State Office of Energy Assessments, and any other authority with jurisdiction, for energy savings rebates and any additional information required. Architect shall then monitor construction for compliance with such rebate requirements and report to the Owner any problems encountered or anticipated.

The Project will incorporate sustainable design measures and is expected to achieve a minimum of LEED silver certification.

2.3 Coordination of Architectural and Engineering Sub-consultants/Other Architects

2.3.1 Architect shall fully coordinate all architectural and engineering disciplines and Sub-consultants involved in completing the Services. Architect's Sub-consultants shall fully coordinate with Architect and all architectural and engineering disciplines and Sub-consultants involved in completing the Services. The objective of this coordination shall be the development of a complete, comprehensive and workable design in which the work of Architect and each Sub-consultant interfaces well and is properly coordinated, with details that work together with regard to all affected disciplines.

2.3.2 Architect shall coordinate its work on the Project with Owner personnel and (including Project Executive), as directed by Project Executive, as necessary to achieve desired Program-wide efficiencies in procurement and maintenance.

2.3.3 Architect shall coordinate its work on the Project with work of the Owner's separately maintained hazardous material consultants. Such coordination shall

not impose on Architect responsibility for the work of the hazardous materials consultant. However, Architect shall consider the work of the hazardous materials consultant in developing work phasing recommendations, overall cost estimates, and design and product specifications, where applicable.

2.3.4 Architect shall immediately advise Owner in writing if any consultant fails in any manner to coordinate its work with Architect.

2.4 Coordination with Project Master Schedule and Owner Operations

2.4.1 Architect shall complete or cause to be completed all services required under this Agreement in accordance with the Master Schedule and Milestone Schedule to be developed in conjunction with the Construction Manager and the Owner.

2.4.2 For each phase of the Services under this Agreement, Architect shall prepare and submit for Owner's acceptance a task list identifying the principal tasks (and subtasks) defining the scope of work of each phase. The main purpose of the task list shall be to promote coordination and scheduling of the Owner and third parties whose actions might impact Architect's progress.

2.4.2.1 The task list shall list all points of Owner and third party interface, for example, approvals, reviews, design input and supplying information. The task list shall include a listing of Architect's anticipated specific requirements for information, decisions or documents from Owner necessary for Architect's performance of its services, and required third party approvals and preliminary meetings required to obtain agreement in principle with agencies and third parties involved in the Project

2.4.3 For the Project, Architect shall prepare, submit for Owner's acceptance, and maintain a design schedule detailing Architect's scheduled performance of the Services. The schedule shall comply and coordinate with the Owner's Master Schedule and Milestone Schedule including all updates to the Master Schedule.

2.4.3.1 Architect shall submit a preliminary schedule within twenty (20) days of commencement of the Programming Phase (covering in summary fashion all Services of each phase of the Project).

2.4.3.2 For each succeeding phase of Services, Architect shall supplement this schedule with a detailed schedule covering by task (and subtask) Architect's work during the succeeding phase of Services. (The required schedule supplement shall be submitted as part of Architect's deliverables at the conclusion of the current phase of Services.)

2.4.4 Architect's schedule shall be updated monthly, and shall meet the following requirements:

2.4.4.1 Architect's schedule shall outline dates and time periods for the delivery of Architect's services, requirements for information from Owner for the performance of its services, and required third party approvals and preliminary meetings required to obtain agreement in principal with County's sheriff's office and its sub-consultants, CSA, State Fire Marshall, and any other agencies involved in the Project.

2.4.4.2 The schedule shall include appropriate Owner, CSA, and State Fire Marshal design review durations for each contract package (in minimum durations of one (1) week for Schematic Phase, Design Development Phase, and 50% Construction Document phase, and two weeks for 100% Construction Documents phase.)

2.4.4.3 The schedule shall be in a computer software format compatible with Owner's existing computer software format, which is Microsoft Project**.**

2.4.5 Architect shall adjust and cause its Sub-consultants to adjust activities, personnel levels, and the sequence, duration and relationship of services to be performed in a manner that will comply with the accepted schedules.

2.4.6 For the Project, Architect shall include in Architect's monthly progress report written recommendations regarding ongoing design and construction work, including constructability (including actual and reasonable constructability in light of Owner's objective to secure a completed Project with the lowest reasonable construction costs), Project scheduling, and any and all design changes affecting size or cost of the Project.

2.4.7 Architect shall make these written recommendations from the standpoint of a design professional observing the construction work and shall not by these recommendations assume construction management responsibilities.

2.5 Deliverables Required Under This Agreement - Generally: Each deliverable shall be reviewed with representatives of Owner. Deficiencies in deliverables and modifications to conform with program requirements and modifications to achieve acceptability of deliverables to Owner, shall be promptly performed, and the cost thereof included in the fee for Basic Services.

2.6 Deliverables Required Under This Agreement - By Phase: Required Deliverables are listed in Appendix D.

2.7 Monthly Progress Report: Architect shall provide Owner with a Monthly Progress Report, in writing, reporting on Architect's progress and any problems in performing the Services of which Architect becomes aware. The Monthly Progress Report may cover more than one Project, provided it does so in separate sections. The Monthly Progress Report shall include, but is not limited to:

2.7.1 A narrative of the work performed (including a list of any contract deliverables) and identification of areas of concern, actions and approvals needed.

2.7.2 A schedule assessment and proposed ways to work around any problems that arise.

2.7.3 Monthly schedule status reports clearly identifying actual performance with respect to the current approved version of the schedule.

2.7.4 The original summary schedule as updated to reflect current progress, updates and revisions, submitted in both CD (three sets) and 81/2" x 11" bound hard copy forms (three sets).

2.7.5 All written submittals will be prepared using Microsoft Word software program.

2.8 Compliance with Laws: Architect shall comply with the standard of care applicable to a specialist in design of adult detention facilities, regarding complying with all requirements of all applicable laws as if set forth in this Agreement, including without limitation California Administrative Code Title 24 (Public Works), Part 1 (Department of General Services), Chapter 13 (Administrative Regulations for the Corrections Standards Authority) (**"Title 24"**). Architect shall perform all duties that Title 24 imposes on adult detention facility project architects and engineers, including those summarized generally in Sections 13-102 and 470A of Title 24, all of which include, but are not limited to, the following:

2.8.1 Prepare all project designs to meet or exceed building standards set forth in Part 2, Title 24 of the California Administrative Code, which are minimum standards applicable to construction of adult detention facilities; coordinate submission and approval of same to CSA, the State Fire Marshal, any other public authority with jurisdiction.

2.8.2 Coordinate and cooperate fully with CSA and the State Fire Marshal and any other authority with jurisdiction, to secure timely review and approval of Architect's work including, but not limited to:

2.8.2.1 Determining the estimated time from submission to CSA and State Fire Marshal of plans and specifications to approval of same, including "bin time" for initial review of plans and specifications, and incorporating same into Project schedule;

2.8.2.2 Securing from CSA change order pre-approvals, where appropriate to minimize Project delays caused by delays in review and approval of change orders;

2.8.2.3 Securing early review and approval by CSA of deferred approval items, including advising Owner of the need to require immediate submission after construction contract award of all necessary submittals for such items, including specifications to this effect in final design documents, and review of proposed contract documents to assure presence of necessary enforcement provisions.

2.8.2.4 Determine and advise Owner on four (4) weeks advance notice all necessary CSA and State Fire Marshal fees, so as to avoid any delay.

2.8.3 Coordinate and cooperate fully with CSA in its required observation of construction.

2.8.4 Subject to Owner's approval, designate an architect or structural engineer in general responsible charge of the preparation of the plans, specifications, and observation of the work of construction for Project.

2.8.5 Issue Verified Reports on the form and frequency required by Title 24, showing Architect's personal knowledge that the work is in every material respect in conformance with the approved plans and specifications. Require that the Project Inspector's, the Contractor's, and Architect's Sub-consultants of all necessary disciplines Verified Reports are submitted as required by Title 24.

2.8.6 Advise on:

2.8.6.1 Selection of resident inspector and testing laboratories;

2.8.6.2 Preparing addenda and change orders as required by conditions on the Project.

2.8.7 Performing general observation of the work of construction, interpreting the approved drawings and specifications.

2.8.8 Receive and act upon all technical correspondence from the authority (ies) having jurisdiction to the architect or engineer in general responsible charge of the Project.

2.8.9 Perform those responsibilities imposed upon it under Title 24 including, but not limited to, observation and personal contact with the Project, Sub-consultants, submitting information to CSA and the State Fire Marshal, and general direction of the work of the Project Inspector (as contemplated by Title 24).

2.8.10 Architect shall establish the extent of the testing of materials consistent with the needs of the Project, shall issue specific instructions to the testing agency prior to the start of construction, and shall notify CSA as to the disposition of materials noted on laboratory reports as not conforming to the approved specifications.

2.8.11 Owner will engage Project Inspector(s) as required by the California Corrections Standards Authority and Title 24, which Project Inspectors shall have been approved by Architect and submitted by Architect to CSA, as required. Said Project Inspectors shall be under the direction of Architect, as required by the California Code of Regulations.

2.9 State Communications: Assist with and coordinate all communications with State Fire Marshal, secure necessary approvals from Corrections Standards Authority, and assist with and coordinate any necessary approvals with other Authorities Having Jurisdiction.

2.10 Architect's Scope of Services: Architect's scope of work on Project shall also include the following work items:

2.10.1 Diagram of Building Areas

2.10.2 ADA compliance surveys and report

2.10.3 Incorporation of sustainable design measures necessary to achieve a minimum of LEED silver certification.

3. Programming Phase

3.1 Period of Service: The services called for in the Programming Phase will be completed and the required deliverables submitted within the stipulated periods of time indicated in Appendix C, "Milestone Schedule". Written authorization to proceed with the Programming Phase will be given at such time as Owner may direct.

3.2 Detailed Requirements: Consistent with the Needs Assessment and Pre-Architectural Programming submitted to CSA, consult with Owner to establish and document the following detailed requirements for the Project:

3.2.1 Design objectives, limitations and criteria, functions, priorities, including sustainability;
3.2.2 Development of initial approximate gross facility areas and space requirement;

3.2.3 Space relation, requirements and restraints (including comparing requested space requirements to similar projects and space standards, diagramming space relationships by using massing diagrams, flow diagrams, stacking diagrams, bubble diagrams and other graphical methods);
3.2.4 Number of functional responsibilities and personnel;
3.2.5 Flexibility and expendability;
3.2.6 Special equipment and systems;
3.2.7 Site requirements and existing conditions, and utilities services;
3.2.8 Development of a preliminary budget for the work based on programming and scheduling studies;
3.2.10 Zoning and other applicable regulations;
3.2.11 Expandability;
3.2.12 Access, parking, including visitors;
3.2.13 Construction feasibility and phasing;
3.2.14 Security criteria, including the ability to provide visual supervision;
3.2.15 Communications relationships; and
3.2.16 Project schedule.

3.3 Space Schematics/Flow Diagrams: Prepare diagrammatic studies and pertinent descriptive text for:

3.3.1 Conversion of programmed requirements to net area requirements;
3.3.2 Internal functions;
3.3.3 Human, vehicular and material flow patterns;
3.3.4 General space allocations;
3.3.5 Analysis of operating functions;
3.3.6 Adjacency;
3.3.7 Special facilities and equipment; and
3.3.8 Flexibility and expansibility.

3.4 Estimate of Project Cost: Based upon the programming verification phase services performed, work with Construction Manager to review initial budget estimates existing by applying unit costs and other standard cost data to space and facilities requirements. Work with Construction Manager to consider all foreseeable Project costs, including design, construction, utilities connections, off-Site improvements, permits, fees, furniture, and movable and installed equipment. Report to Owner regarding continued accuracy of initial budget estimates contained in Owner's Implementation Plan.

4. Schematic Design Phase

4.1 Period of Service: The services called for in the Schematic Design Phase will be completed and the required deliverables submitted within the stipulated period of time indicated in Appendix C, "Milestone Schedule". Written authorization to proceed with the Schematic Design Phase will be given at such time as Owner may direct.

4.2 Consultation with Owner

4.2.1 Consult with Owner to clarify and define the requirements for the Services and review available data.

4.2.2 Review Needs Assessment Study submitted by Owner to CSA as required by Title 24, CCR.

4.2.4 Identify, analyze and conform to the requirements of governmental and private authorities having jurisdiction to approve the design of the Project and participate in consultations with such authorities.

4.3 Site Visit and Investigations

4.3.1 Investigate existing conditions through Site visits and otherwise, to determine scope of work and effects on design and construction. Obtain from Owner all available information on hazardous materials and advise Owner immediately of any other hazardous materials Architect has observed. (This paragraph does not impose on Architect any duty to locate hazardous materials.)

4.3.2 Advise Project Executive as to the necessity of obtaining additional information related to the Site, necessary for purposes of design. Such advice and statement of necessity shall be in writing and explain fully the considerations involved. Such information might include, without limitation and by way of example only: description of property boundaries or as built information, rights of way, topographic, hydrographic, and utility surveys, soil mechanics, seismic and subsoil data, chemical, mechanical and other data logs of borings, etc.

4.3.3 Review information generated pursuant to Paragraphs 2.2.8, 4.2.2, 4.3.2, and 4.4, and advise Project Executive whether such data is adequate for purposes of design. Determine if additional data is necessary because of apparent errors, conflicts, and incomplete information or otherwise, before Architect can proceed with design.

4.4 Recommendations on Required Additional Information

4.4.1 Advise Owner as to the necessity of Owner's providing or obtaining from others available or additional information pertinent to the Project including previous reports, as built conditions, information, and any other data relative to design or construction of the Project.

4.4.2 Make recommendations on required additional information necessary to complete the design and complete the preliminary reports and schematic materials.

4.4.3 Additional information required by Architect under Paragraph 4.4.2 shall be secured by Architect as directed in writing by Project Executive and compensated as Additional Services pursuant to Paragraph 11.

4.5 Preliminary Estimates of Construction Costs

4.6.1 Work with Construction Manager to prepare preliminary estimates of construction costs and times of completion for the Project.

4.6.2 Develop alternative conceptual plans applicable to various design alternatives including, but not limited to, structural, mechanical, electrical, plumbing, fire safety, electronics, and security systems. Include analyses of Owner's program requirements.

4.6 Schematic Layouts, Sketches and Conceptual Design Criteria

4.6.1 Prepare reports containing schematic layouts, sketches and conceptual design criteria with appropriate exhibits.

4.6.2 At the beginning of each design phase, identify all Owner decisions required to maintain the Master Schedule. Provide Owner with at least 15 working days notice of all decisions required to maintain the Master Schedule. Delays associated with time required for Owner to make decisions where adequate notice was not given will not result in Additional Services. Reports and exhibits shall incorporate Owner's program requirements and shall include structural concepts, Site utilization plans, floor plans, elevations, sections, study perspectives and other drawings necessary to describe the Project. Two initial concepts shall be developed with two subsequent rounds of iterations to achieve a single acceptable design concept for approval by Owner. Architects shall participate in weekly progress meetings with representatives of Owner and shall coordinate with Project Executive formal design presentations at times indicated on the Project schedule.

4.6.3 Prepare and submit to Owner for approval:

4.6.3.1 Outline specifications including architectural, structural, mechanical, electrical, and instrumentation systems and materials proposed;

4.6.3.2 Floor plans and elevations at a scale acceptable to Owner as necessary to convey the architectural design, and tabulation of both gross and assignable floor areas including a comparison to the initial program area requirements; prepare mounted presentations and rendered perspectives.

4.6.4 Reports and exhibits shall indicate clearly the considerations involved including, but not limited to applicable requirements of governmental authorities having jurisdiction or private licensing, patent, easements, or other legal restrictions. Reports and exhibits shall indicate any alternative solutions available to Owner and set forth Architect's findings and recommendations.

4.6.5 Architect shall provide a narrative report by each design discipline describing their proposed design philosophy with a description of, and the rationale for, the proposed structural, mechanical, electrical, electronics, plumbing, fire safety, security systems, types of equipment, materials, finishes, site development and landscaping. The rationale shall include initial costs, lifecycle costs, life expectancy and maintenance considerations.

4.7 Lifecycle and Alternates Workshop

4.7.1 Participate with Project Executive and any other consultants designated by Project Executive in the conduct of an approximate eight hour Lifecycle and Alternates Workshop. This session may be held during any appropriate stage of the design phase.

4.7.2 Participate, and arrange for the participation of Sub-consultants in the Lifecycle and Alternates Workshop and provide with Sub-consultants lifecycle analysis on all major components and equipment and cost/benefit of alternate systems and materials.

4.7.3 Prepare and submit to Project Executive for Owner's approval comparative cost studies of proposed major building systems for analysis in the Lifecycle and Alternates Workshop. Studies shall include first cost and lifecycle cost for all major components and equipment. Study shall estimate the yearly energy

savings which shall be anticipated and shall list alternatives for systems and materials.

4.8 Opinion of Probable Costs: Assist CM with information to prepare opinion of probable costs based on the schematic layouts, sketches and conceptual design criteria provided including, but not limited to, the following that will be separately itemized. Reports shall include:

4.8.1 Estimate of Probable Total Construction Cost (defined as the total anticipated cost of the construction contract to be let to a general contractor)

4.9 Design Schedule Report: A report on the anticipated schedule for Project design, including a detailed schedule of progression and submittals of drawings and specifications in the subsequent phases, verifying Architect's ability to conform to the Contract schedule.

4.10 Attend Required Meetings: Attend no more than four (4) meetings with the community, representatives of Owner, interested parties, governmental entities, and provide information and diagrams developed as part of the instruments of service for Schematic Design to fully describe the Project. Additional meetings will be an additional service.

4.11 Interface with Owner Groups: Throughout all phases of programming and schematic design, Architect shall work with, coordinate with, interface with, exchange ideas and design materials with, and include throughout the decision-making process the Sheriff's Office and its consultants. Architect acknowledges and agrees that the Sheriff's Office and its independent consultants shall have an active role in design development of the programming and schematic phases. Architect shall seek input from Owner groups and prepare a report covering identifying responses and resolutions to the following:

4.11.1 Is the design consistent with the County's mission, philosophy, and objectives?
4.11.2 Does the design fully meet operational requirements (as detailed in the functional/operational program)? Is the design completely consistent with the architectural program?
4.11.3 Have any spaces been left out or added inadvertently?
4.11.4 Is the design capacity correct? Does the flow work well? How is the security zoning?
4.11.5 What are the relationships *among* components (e.g., the relation of food services to staff dining, warehouse, and housing units) and *within* components (e.g., food preparation, storage, and cleaning areas? This is needed only if adjacency relationships have not been fully resolved during architectural programming).
4.11.6 What are the site constraints (such as buildable areas for this project, areas that need to be reserved for other functions, setbacks, wetlands, utilities that should not be moved)?
4.11.7 How much land should be reserved for expansion of the facility?
4.11.8 Are two-level (including mezzanine) or three-level housing units acceptable?
4.11.9 How many recreation areas are needed and what sizes should they be (if not identified in the architectural program)?
4.11.10 How many parking spaces are needed? Must staff parking be separate from visitor parking? Is secure parking needed, and if so, for whom (if not identified in the architectural program)?
4.11.11 What size trucks will deliver and pick up food, garbage, and other items? How many trucks should the loading dock and staging area accommodate?
4.11.12 Is a vehicular sallyport or secure vehicular yard needed? If so, for how many vehicles of what sizes (if not identified in the architectural program)?

4.11.13 Are there adjoining buildings into which inmates in cells and other areas should not be able to see?
4.11.14 Are there any building materials that the County wants to use or avoid?
4.11.15 How many staff would each design option require?
4.11.16 Have County user groups prioritized design alternatives based on estimated costs?
4.11.17 What are the needs for transitioning from the County's prior adult detention facility to the new Project facility and for occupancy of the new Project facility?

5. Design Development Phase

5.1 Period of Service

5.1.1 After acceptance by Owner of the required deliverables in the Schematic Design Phase, and upon written authorization from Owner, Architect shall proceed with the performance of the services called for in the Design Development Phase. Written authorization will be within a week of the submittal and the submittal review will be done in a workshop with the Architect, Construction Manager and Owner.

5.1.2 Architect shall submit the deliverables required by the Design Development Phase including preliminary design documents and within the stipulated period indicated in Appendix C, "Milestone Schedule".

5.2 General Scope of Project and Final Design Criteria: After consultation with Owner and on the basis of the accepted schematic, study and report documents, determine the general scope, extent and character of the Project and establish final design criteria. Participate in weekly progress meeting with Owner's personnel and Sub-consultants.

5.2.1 Adult Detention Facility Specific Design Criteria Items:

5.2.1.1 Incorporation of all other design elements required for highly functional adult detention facility. Key items for consideration in design development include without limitation:

a. Are there blind spots caused by columns or anything else? Can these be eliminated or minimized?
b. What materials are proposed in inmate areas? Are they durable, easy to maintain, and appropriate for the population category?
c. What composes the security perimeter? Are the windows, walls, ceilings, floors, doors, locks, and sallyports sufficient to keep inmates from escaping?
d. Is there anything in cells or showers that inmates could use to hang themselves?
e. Are windows in the right places for staff visibility? Would any of the windows allow inmates views that may compromise security or privacy?
f. Are doors in locations that will work well with furniture and equipment? Should any doors be moved to enhance desired movement or control?
g. Are staff stations and control rooms laid out ergonomically, so that necks, arms, and eyes are not strained?
h. Is the facility fully compliant with the Americans with Disabilities Act (ADA), applicable building codes, and state and (where adopted) national standards, such as those of the American Correctional Association (ACA)?

i. How will the building work in various types of emergencies? Where will inmates go in case of fire (or even fire drills) or hostage situations?
j. Will staff, inmates, and visitors always feel safe? What else would make them feel safer? How will attempts at bringing in contraband—by visitors, incoming and returning inmates, staff, vendors and repair people—be stopped?
k. How can structural and mechanical systems and utilities facilitate expansion?
l. Are the staffing plan and design fully compatible? If not, have adjustments to either or both been made?

5.3 Design Requirements. The design of the Project shall provide the following:

5.3.1 Fire safety. The provisions of Title 19 and Title 24, Part 2 as they relate to detention facilities shall be incorporated into the facility design.

5.3.2 Suicide Hazards. Architectural plans shall be reviewed by the CSA for the purpose of reducing hazards posed by fixtures and equipment which could be used for an act of suicide by an inmate. The facility design shall avoid any surfaces, edges, fixtures or fittings that can provide an attachment for self-inflicted injury. The following features shall be incorporated in the design of temporary holding cells, temporary staging cells and any other area where an inmate may be left alone:

a. plumbing shall not be exposed. Operation of control valves shall use flush buttons or similar. The drinking fountain bubbler shall be without curved projections;
b. towel holders shall be ball-in-socket or indented clasp, not pull-down hooks or bars;
c. supply and return grilles shall have openings no greater than 3/16 inch or have 16-mesh per square inch;
d. beds, desk surfaces and shelves shall have no sharp edges and be configured to prevent attachment;
e. light fixtures shall be tamper resistant;
f. fixtures such as mirrors shall be mounted using tamper-resistant fasteners; and
g. fire sprinkler heads inside rooms shall be designed to prevent attachment

5.3.3 Health and sanitation. Provisions of Subchapter 4, Title 15, California Code of Regulations, and of the California Retail Food Code as they relate to detention facilities shall be incorporated into the facility design.

5.3.4 Single and/or double occupancy cells. The number of single and/or double occupancy cells shall be that number, determined by the facility/system administrator in conjunction with the Corrections Standards Authority, necessary to safely manage the population of the facility/system based on a comprehensive needs assessment which accounts for those inmates projected to be:

a. administrative segregation cases,
b. persons with disabilities,
c. custodial problems, and/or
d. likely to need individual housing for other specific reasons as determined by the facility/system administration.

The total number of single and/or double occupancy cells shall not be less than 10 percent of the system's Corrections Standards Authority rated capacity.

5.3.5 Staff and inmate safety. Facilities shall be designed and/or equipped in such a manner that staff and inmates have the ability to summon immediate assistance in the event of an incident or an emergency.

5.3.5 Heating and cooling. Provision shall me made to maintain a living environment in accordance with the heating, ventilating, and air conditioning requirements of Parts 2 and 4, and the energy conservation requirements of Part 6, Title 24, California Code of Regulations.

5.3.6 Acoustics. Housing areas shall be designed and constructed so that the average noise level does not exceed 70 decibels during periods of activity and 45 decibels during sleeping hours.

5.3.7 Living Areas. Living areas shall be separated from the area for reception and booking.

5.3.8 Spaces for persons with disabilities.

a. Housing cell or room. A cell or room for an inmate with a disability using a wheelchair must have an appropriate entry and toilet, wash basin and drinking fountain which the inmate can use without personal assistance.
b. Other spaces within the security perimeter such as day rooms and activity areas shall be located such that persons with disabilities will not be excluded from participating in any program for which he or she would otherwise be eligible. Accessible showers for inmates with disabilities shall be available.
c. Spaces outside the security perimeter. Public areas of a local detention facility shall comply with the applicable chapters of Title 24, Part 2 of the California Code of Regulations.

5.3.9 Security. The design should facilitate security and supervision appropriate to the level of inmate custody.

5.3.10 Glazing. Internal and external facility glazing shall be appropriate to the security level of the detention area or room.

5.3.11 Hair care space. Space and suitable equipment must be provided for men's haircutting and/or female hairdressing.

5.3.12 Floor drains shall be provided where operationally and mechanically appropriate.

5.3.13 A sewage system design capable of addressing items that could potentially impact waste water systems.

5.3.14 Medical/mental health care housing shall be designed in consultation with the health authority. Medical/mental health areas may contain other than single occupancy rooms.

5.3.15 Project facility shall be expandable to accommodate larger numbers of inmates in the future, i.e., up to 832 beds. The development of the design should be presented in phases for purposes of bidding.

5.4 Design Development Documents: Prepare Design Development Documents consisting of final design criteria, preliminary drawings, outline specifications and written descriptions of the Project, together with no more than six (6) renderings. These Preliminary Design documents shall include, but are not limited to:

5.4.1 Site plans, architectural, structural, mechanical and power and signal drawings, elevations; cross sections and other mutually agreed upon drawings deemed necessary to describe the developed design; single line electrical and mechanical drawings, and structural drawings with preliminary sizing of major structural elements; and

5.4.2 Specifications for each specification section, with Part 2 of each section completed, describing the size, character and quality of the entire Project in its essentials as to kinds and locations of materials; type of structural, mechanical and electrical systems; and

5.4.3 a tabulation of both gross and assignable floor areas in a comparison to the approved schematic program area requirements and to the initial program area requirements.

5.4.4 Architect shall provide to Project Executive for Owner's approval a color and materials board, samples of textures and finishes of all materials proposed in the Services.

5.5 Design Development Phase Drawings: Provide drawings that indicate the scope of work included in the bid package with sufficient detail to enable preparation and review of an accurate cost estimate including, but not limited to, the following descriptions of minimum requirements for a design development submittal, which shall be augmented as necessary to show design intent and to prepare an accurate estimate of construction cost.

5.5.1 Architectural Drawings

5.5.1.1 Floor plans that clearly show:

a. Finish schedule
b. Principal dimensions
c. Wall types clearly identified
d. Security zones and perimeters
e. Room and door numbers, and a numbering plan for the entire facility
f. Sufficient sections and details to enable a reasonable material takeoff
g. Contractor-furnished and Owner-furnished equipment list incorporated in layout

5.5.1.2 Roof plans that clearly show:

a. Slopes
b. Type of roofing
c. Roof access and pathways
d. Location of any mechanical equipment
e. Sufficient information to determine primary and secondary means of drainage

5.5.1.3 Reflected ceiling plans that clearly show:

a. Ceiling material
b. Access hatches
c. Room numbers
d. Partitions coordinated with the floor plans
e. Mechanical and electrical features coordinated with mechanical and electrical system drawings

5.5.1.4 Elevations that clearly show:

a. Types of surface materials
b. Dimensions from finish floor to tops of walls, eaves and roof lines
c. All openings without dimensions but coordinated with door and window schedules

5.5.1.5 Sections that clearly show:

a. Any security considerations
b. Firewall conditions at tops of walls
c. All essential building parts and materials

5.5.1.6 All door, window, glazing and hardware schedules complete with sufficient detail to show the agreed-upon form and style

5.5.1.7 All items intended to be permanently affixed to the building.

5.5.2 Structural Drawings

5.5.2.1 Floor and foundations plans that clearly show:

a. Principal dimensions
b. All columns, shear walls, shafts and stairs
c. Coordination of structure with architectural floor plans
d. Sections cut and details to identify the proposed type of foundations
e. Sufficient section and detail bubbles to show where sections and details can be found

5.5.2.2 Roof plans that clearly show:

a. Principal dimensions
b. All major framing members
c. Sufficient sections and details to show design intent
d. Coordination with architectural, mechanical and electrical floor plans
e. Sufficient section and detail bubbles to show where sections and details can be found

5.5.2.3 Sections and details that clearly show:

a. Design intent
b. All important connections
c. Coordination with other structural plans
d. Logical placement to allow easy location of sections and details

5.5.3 Mechanical and Plumbing Drawings: Review design-build Mechanical and Plumbing drawings for conformance to the following:

5.5.3.1 Mechanical and Plumbing plans that clearly show:

a. Room numbers
b. Locations of all major pieces of equipment
c. Layout and sizing of all ductwork and piping
d. Symbol list coordinated with symbols on plans
e. All points-of-connection including invert elevations
f. Sufficient section and detail bubbles to show where sections and details can be found

5.5.3.2 Equipment and fixture schedules that clearly show:

a. All fixtures identified
b. All mechanical equipment identified and sized

5.5.4 Electrical Drawings: review design-build Electrical drawings for conformance to the following:

5.5.4.1 Lighting and power plans that clearly shows:

a. Room numbers
b. Single line diagrams of services and systems
c. Symbol list coordinated with symbols on the plans
d. Lighting plans coordinated with reflected ceiling plans
e. Power, telephone and computer outlets shown and coordinated with equipment layouts in other disciplines
f. Sufficient section and detail bubbles to show where sections and details can be found

5.5.4.2 Equipment and fixture schedules including lighting.

5.5.4.3 Security, alarm, intercom, public address (PA), closed-circuit TV (CCTV), distress call and similar electrical and electronic systems.

5.5.5 Civil Drawings:

5.5.5.1 Site and grading plans that clearly shows:

a. Site cross sections
b. Site contours and drainage
c. Locations of all bench marks
d. Precise locations of all major elements
e. Roadways, driveways and parking areas

5.5.5.2 Site utility plans that clearly show:

a. All connections to off-Site utilities
b. All points-of-connection including invert elevations
c. All drainage systems and other utilities located and sized

5.5.7 Other Items:

5.5.7.1 Specifications describing the size, character and quality of the entire Project, including locations of materials; types of structural, and security systems.

5.5.7.2 Structural Engineering Calculations clearly presented including realistic loads, and sufficiently complete for Construction Documents to proceed.

5.5.7.3. Any other items required to address matters included in Paragraphs 5.2 and 5.3 above.

5.6 Additional Data or Services: Advise Owner in writing if additional data or services of the following types are necessary and, as Additional Services, assist in obtaining such data and services as directed in writing by Project Executive:

5.6.1 Data prepared by or services of others including, without limitation, borings, probings and subsurface explorations, hydrographic surveys, laboratory tests and inspections of samples, materials and equipment;

5.6.2 Appropriate professional interpretations of the foregoing;

5.6.3 Environmental assessment and impact statements, Site assessments;

5.6.4 Property, boundary, easement, right-of-way, topographic and utility surveys;

5.6.5 Property descriptions;

5.6.6 Zoning, deed and other land use restriction; and

5.6.7 Other special data or consultations necessary or useful in completion of the Project.

5.7 Report on Additional Information Required: Advise in writing if any of the following are required:

5.7.1 Governmental permits of any type;

5.76.2 Reports of any type to governmental agencies;

5.8 Revised Opinion of Probable Costs: Based on the information contained in the Design Development documents, assist the Construction Manager with information to prepare revised opinion and more detailed estimate of probable Costs and times of completion of the Project, coordinated with the Master Schedule.

5.9 Attend Required Meetings: Attend no more than two (2) meetings with the community, representatives of Owner, interested parties, governmental entities, and provide information and diagrams to fully describe the Project developed from the instruments of service for the Design Development phase. Additional meetings, for these meetings will be an additional service.

5.10 Work Phasing Recommendations: Prepare recommendations for phasing of the construction work to minimize disruptions and interferences with Owner's operations and any concurrently proceeding construction activities. Meet and discuss phasing recommendations with Owner and Project Executive. This phasing may be incorporated into Construction Contract documents. Complete phasing recommendations as part of the Construction Documents Phase services.

6. Construction Document Phase

6.1 Period of Service: After acceptance by Owner of the Design Development Phase documents and revised opinion of probable Costs, and upon written authorization from Owner, Architect shall proceed with the performance of the services called for in the Construction Document Phase; and shall deliver required deliverables in Appendix D under this phase, within the stipulated period indicated in Appendix C, "Milestone Schedule". Written authorization will be within a week of the submittal and the submittal review will be done in a workshop with the Architect, Construction Manager and Owner.

6.2 Construction Documents

6.2.1 On the basis of the accepted Design Development documents and the comprehensive update on estimates of probable Total Project Costs and times of completion for the Project, coordinated with the Master Schedule, prepare for incorporation in the Contract Documents final drawings (hereinafter called **"Drawings"**) and Specifications to show the work to be furnished and performed by Contractor. Drawings and Specifications shall set forth in detail the requirement for construction of all work to be performed by Contractor.

6.2.2 Construction Documents shall be prepared in accordance with industry standard or care. Technical specifications shall be prepared in conformance with the thirty two division format of the Construction Specification Institute. Architect shall cooperate with Owner in coordinating the Drawings and technical specifications with the Divisions 0 and 1 standard specifications and in jointly developing Owner's standard specifications. Architect shall provide whatever Division 1 construction contract specifications necessary for the Project.

6.2.3 Submittal to CSA / State Fire Marshal: All construction documents shall be brought to a ninety percent (90%) level of completion for CSA/State Fire Marshal submittal. Owner may conduct a peer review of the completed construction documents, including submittal of a list of revisions required to complete the documents. Architect shall complete drawings and specifications following CSA and State Fire Marshal submittal and review, including completion of all Sub-consultant services, fully coordinate drawings and specifications, and perform a quality control review. The same Architectural and Sub-consultant team (and team personnel) preparing the CSA submittal shall complete the drawings and specifications.

6.3 Compliance with Codes, Regulations and Requirements: Comply with the standard of care of a specialist in design of adult detention facilities when preparing Drawings and Specifications to comply with applicable building codes, ordinances, statutes, laws, standards, and governmental regulations, applicable to the Services including, but not limited to, environmental, energy conservation, and disabled access requirements, regulations and standards of the State Fire Marshal having jurisdiction over the Project.

6.4 Compliance with State Standards: Without limiting Paragraph 6.3 above, all plans, specifications, structural design calculations, site data, and cost estimates required by State law including without limitation, the California Corrections Standards Authority, California Penal Code and Code of Regulations, shall comply with State standards. Architect shall prepare and submit the application for approval of the plans and specifications by CSA. A "check set" shall be submitted by Architect to CSA, and any changes or corrections required by the CSA shall be made by Architect. Any other requirements of Castor any other authority with jurisdiction shall be complied with. Deliver to Owner two (2) complete sets of final CSA-approved plans and specifications. Architect shall designate a contact person for the duration of the State approval process.

6.5 Drawings and Specifications: The Drawings and Specifications must clearly identify and describe all necessary quality levels and quality control procedures such as inspections, tests, submittals or other measures that the Contractor must perform. Each specification section must include the requirements for the tests, controls, performances and certifications needed to verify the specified quality level of that section. Each work-related specification section must also dedicate a subsection to identify and list required Contractor submittals along with testing and inspection requirements.

6.6 Revised Opinion of Probable Total Project Costs: Based on the information contained in the Drawings and Specifications, work with Construction Manager to submit, once at 50% completion and again at 90% completion, a revised opinion and more detailed estimate of probable Total Project Costs and times of completion of the Project, coordinated with the Master Schedule.

6.7 Report: Provide a written report to Owner that the final design, as expressed in the final plans and specifications, will meet the standard of care of a specialist in design of adult detention facilities, including, but not limited to, the following attributes:

6.7.1 Its constructability, workability and biddability;

6.7.2 The finished construction meeting the required levels of structural integrity, water tightness, durability, maintainability, sustainability, and security, if faithfully carried out;

6.7.3. The completed Project meeting the required levels of health and sanitation and safety of inmates, staff, and visitors,

6.7.4 The completed Project conforming to the requirements of all applicable laws, statutes, regulations and ordinances.

6.7.5 Does not call for the use of hazardous materials.

6.8 Review of the Final Design by Owner: Participate and cooperate fully in a review of the Final Design by Owner, and any consultants engaged by Owner, to assess the constructability of the final design. Respond to Owner comments and incorporate comments as necessary.

7. Bidding Phase

7.1 Bidding: See Paragraph 1.1.3 above regarding general procurement matters. After written authorization to proceed with the Bidding Phase, Architect shall:

7.1.1 Assist the Construction Manager to prepare bid packages for contractor bidding.

7.1.2 Attend Pre-Bid Conferences and Site Visits.

7.1.4 Consult with and advise Owner as to the acceptability of sub-contractors, suppliers and other persons and organizations proposed by the bidders for those portions of the work as to which such acceptability is required by the bidding documents.

7.1.5 Consult with Owner concerning, and determine the acceptability of, substitute materials and equipment proposed by bidders.

7.1.6 Answer bidder questions and/or issue written addenda as appropriate to interpret, clarify or expand the bidding documents, including allowable substitutions of materials and equipment. Where appropriate, obtain CSA approval.

7.1.7 Attend the bid openings and assist Owner in evaluating bids or proposals.

7.1.8 Prepare a conformed set of drawings and specifications, reflecting the changes made and approved by the Owner during the Bidding Phase.

7.2 Where Bids Exceed Budget: If the cumulative total of all lowest responsible, responsive bid received from all trade sub-contractors plus amounts otherwise payable to Construction Manager exceed, or if based on trade sub-contractor bids received to date, Owner reasonably determines that they will exceed, the latest approved Estimate of Probable Total Construction Costs executed by the Construction Manager at Final Construction Document (as contained within the estimate of Total Project Costs), Owner may, at its discretion:

7.2.1 Award the contracts to the lowest responsible, responsive bidders, and give written approval of an increase in Owner's budget.

7.2.2 Reject some or all bids and rebid the applicable contracts.

7.2.3 If the cumulative bid amount is or is reasonably expected to be more than 10% greater than the Architect's latest accepted Estimate of Probable Total Construction Cost rendered during the Construction Documents Phase, Owner may require Architect to revise the scope of work to be performed by Construction Manager and trade sub-contractors or its quality, or both, so as to reduce the Project Construction Cost for the work, while still meeting Owner's Project objectives. Architect shall at its expense, if so directed by Owner, modify the Construction Documents in order to reduce the Project Construction Costs for the work to be performed by the Construction Manager and trade sub-contractors within the Project budget.

7.2.4 Abandon the Project and terminate this Agreement.

8. Construction Phase

8.1 Period of Service: The Construction Phase will commence with the issuance to the Construction Manager of the Notice to Proceed with Construction under the Construction Management Services Agreement, and will terminate upon written recommendation by Architect for final payment on that prime contract.

8.2 General Administration of Construction Contract

8.2.1 Architect shall work with Construction Manager to review Document 00 7200 General Conditions and Division 1 Specifications (herein called the **"General Conditions"**) prior to award of the Construction Agreement, and shall perform all duties therein which indicate will be performed by the "Architect" or "Architect/Engineer".

8.2.2 Architect will have authority to act on behalf of Owner to the extent provided in the General Conditions of the Construction Contract, provided, however, that Owner may, in its sole discretion, issue instructions directly to Contractor if notice of such instructions is given to Architect as soon as practicable thereafter.

8.2.3 Architect will work with Owner, Project Executive, Construction Manager, and any Project Inspectors, testing agencies, and governmental agencies as set forth in the General Conditions and this Contract. Architect consents to Owner's retaining of a construction manager who may perform some or all of the functions assigned to Project Executive in this Agreement.

8.2.4 For purposes of this Appendix A, words and phrases having a defined meaning under the General Conditions shall have that defined meaning in this Appendix A including, but not limited to, the terms **"Site"**, **"defective"**, **"Contract Documents"**, **"Shop Drawings"**, **"Samples"**, **"Inspector"** and **"Contractor"**.

8.2.5 Architect and Resident Project Representative (if required) shall attend the Preconstruction Conference.

8.2.6 Architect shall, after approval of the plans and specifications by the CSA and State Fire Marshal, and as soon as all required construction contracts are let, but before construction is started, provide notice to CSA as required by the California Code of Regulations and California Penal Code.

8.3 Visits to Site and Observation of Construction

8.3.1 Architect shall make visits to the Site weekly in construction and as Owner deems necessary on field issues that will adversely impact the critical path in order to observe, as an experienced and qualified design professional, and sufficient to prepare the Verified Reports and any other reports or certifications required by the California Penal Code and Code of Regulations, or by any other authority, on the progress and quality of the various aspects of Contractor's work. Architect shall provide Owner with copies of all records and reports of Site visits within forty-eight (48) hours of the Site visit.

8.3.2 Architect shall advise Owner in writing of any observations of defective work, work not in conformance with drawings and specifications, and lack of progress of work.

8.3.3 Architect shall establish and maintain to the satisfaction of Owner, a computer database. The Architect's database shall maintain complete and accurate records regarding defective work, work not in conformance with drawings and specifications, and lack of progress of work, and shall cross reference such work to the drawings and specification sections violated. Architect shall make such database available to Owner at all reasonable times and turn over the database to Owner upon completion or termination of this Agreement. 8.3.4 Architect shall not, during visits or as a result of observations of Contractor's work in progress, supervise, direct or have control over Contractor's work.

8.4 Resident Project Representative: Unless agreed specifically otherwise, Architect shall not provide the services of a Resident Project Representative at the Site to assist Architect to provide continuous observation of the Project.

8.5 Defective Or Nonconforming Work: Architect shall make written recommendations to Project Executive to disapprove or reject Contractor's work, or to accept Contractor's work with a reduction in Contract Cost, while it is in progress if Architect believes such work is defective or will not produce a completed Project that conforms to the Contract Documents or that such work will prejudice the integrity of the design concept of the Project as reflected in the Contract Documents.

8.6 Interpretations, Clarifications and Corrections

8.6.1 Architect shall issue necessary interpretations, clarifications, Architect of Bulletins, and Request for Information (RFI)-Replies regarding the Contract Documents and in connection therewith assist Project Executive with supplemental instructions and change orders as required, with reasonable promptness (no longer than 5 (5) working days) so as to cause no delay to Contractor or the Project.

8.6.2 Architect shall, at its own expense, make all revisions and changes to the Drawings and Specifications as directed by Owner to correct errors, omissions or conflicts.

8.6.3 On change orders, prepare the scope of work, justifications and estimate of the cost where necessary.

8.7 Verified Reports: Architect shall make the "verified reports" required by the California Penal Code and Code of Regulations, according to the form and schedule required by those codes and CSA.

8.8 Review of Submittals and Requests for Information

8.8.1 Architect shall review, approve or take other appropriate action as set forth in the General Conditions in respect of Shop Drawings, Samples and other data which Contractor is required to submit under Specification 013000 Submittals (collectively referred to herein as **"Submittals"**), and review and reply to RFI's, for conformance with the design concept of the Project and the intent of and compliance with the Contract Documents, with reasonable promptness so as to cause no delay to Contractor or the Project. In no event shall Architect respond to RFI's longer than five (5)working days after their receipt and other submittals any longer than ten (10)working days after their receipt, unless the submittal has been designated in Division 1 as a submitted requiring extended review.

8.8.2 Reviews, approvals and other actions taken shall not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto, unless same has been expressly specified by Architect.

8.8.3 Architect shall, for the purpose of performing its review obligations herein, employ and engage personnel who are sufficiently qualified to conduct meaningful review of the Shop Drawings, submittals and requests for clarification.

8.8.4 Architect shall maintain to the satisfaction of Owner a computer based system to record, control and manage the review of Submittals and RFI's, which shows the interrelationships among and between such documents and requests for changes or claims, Bulletins and/or potential and/or approved change orders, and which can be used for coordination of submittal reviews with the Project scheduling requirements, and shall make such system available to Owner at all reasonable times.

8.8.5 Architect shall provide to Project Executive for Owner approval two copies of a color schedule, samples of textures and finishes of all materials in the work at the Project.

8.9 Communications with Contractor

8.9.1 Any communications between Architect and Contractor regarding any form of change to the construction contract's Contract Documents (including, but not limited to, changes in price), and any other party acting on behalf of either, shall be in writing, or if not made in writing, memorialized in writing, and copies of same shall be sent immediately to Project Executive. The Owner shall be copied on all communication between the Construction Manager and the Architect. The Owner, in its sole discretion, reserves the right to change this requirement, relax this requirement, or revise this requirement.

8.9.2 As required in the General Conditions, Architect shall review all written communications from Contractor, recommend actions to be taken by Owner, and reply in writing to Project Executive regarding the following:

8.9.2.1 Applications for payment.

8.9.2.2 Requests for changes in contract costs or times of completion.

8.9.2.3 Disputes with respect to technical aspects of contract documents.

8.9.2.4 Requests for interpretation and clarification of contract documents.

8.10 Substitutions

8.10.1 Architect shall evaluate and determine the acceptability of a maximum of two (2) substitute materials and equipment proposed by Contractor. Should the number of substitutions submitted by the Contractor exceed two (2), Architect shall inform the Owner, who will at their discretion, authorize the Architect to proceed on Additional Services basis.

8.10.2 Architect shall review quality control submittals and complete requests for substitution from Construction Contractor within the duration allowed for submittal reviews so as to cause no delay to the Contractor or the Project and, for the purpose of performing its review obligations herein, shall employ and engage personnel who are sufficiently qualified to conduct meaningful review and make knowledgeable comparisons of proposed substitutions.

8.11 Inspections and Tests

8.11.1 Architect shall request Project Executive to require special inspection or testing of the work whenever necessary to Architect's performance of its duties hereunder.

8.11.2 Architect shall receive and review all certificates of inspections, testings and approvals required by laws, rules, regulations, ordinances, codes, orders or the Contract Documents (but only to determine generally that their content complies with the requirements of, and the results certified indicate compliance with, the Contract Documents).

8.11.3 Architect shall observe work to determine if work or portions of work are substantially complete, and for development of punch lists, and final completion.

8.11.4 Architect shall attend all weekly construction contract progress meetings.

8.12 Disputes Between Owner and Contractor: If requested by Owner, Architect shall act as initial interpreter of the requirements of technical aspects of the Contract.

8.13 Applications for Payment

8.13.1 Based on Architect's on-Site observations as an experienced and qualified design professional, on information provided by the Inspector and on review of applications for payment and the accompanying data and schedules, Architect shall assist Project Executive in its determination of amounts owing to Contractor and recommend in writing payments to Contractor in such amounts.

8.13.2 Recommendations of payment by Architect will constitute a representation to Owner that:

8.13.2.1 The work has progressed to the point indicated;

8.13.2.2 To the best of Architect's knowledge, information and belief, the quality of the work is in accordance with the Contract Documents (subject to evaluation of such work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents and to any other qualifications stated in the recommendation).

8.13.3 In the case of unit price work, Architect's recommendations of payment will include its determinations of quantities and classifications of such work, along with data provided by Owner and other consultants (subject to any subsequent adjustments allowed by the Contract Documents).

8.13.4 By recommending any payment Architect will not thereby be deemed to have represented that exhaustive, continuous or detailed reviews or examinations have been made by Architect to check the quality or quantity of Contractor work as it is furnished and performed, beyond the responsibilities specifically assigned to Architect in this Agreement and the General Conditions.

8.14 Contractor's Completion Documents

8.14.1 Architect shall receive and review all maintenance and operating instructions, schedules, guarantees, bonds and certificates of inspection, tests and approvals that are to be assembled by Contractor in accordance with the Contract Documents (but such review will only be to determine that their content complies with the requirements of, and in the case of certificates of inspections, tests and approvals the results certified indicate compliance with, the Contract Documents), and shall transmit them to Owner with written comments and recommendation on their conformance with Contract requirements.

8.14.2 Architect shall employ and engage personnel who are sufficiently qualified to conduct meaningful review of maintenance and operating instructions, schedules, guarantees, bonds and certificates of inspection, and tests.

8.15 Final Observations: Architect shall conduct observations to determine if the work or portions of the work is substantially complete and a final observation to determine if the completed work is acceptable, and will recommend, in writing, whether final payment shall be made to Contractor and will give written notice to the Project Executive that the work either is or is not acceptable subject to any conditions therein expressed.

8.16 Post-occupancy Review: Architect and sub-consultants shall participate in one (1) "post occupancy review".

8.16.1 Architect and sub-consultants will participate in a comprehensive walk through of the facility with the Owner, Commissioning Agent and Construction Manager no later than one month prior to the end of the warranty period

8.16.2 Architect will prepare a report based on site observations and discussion with the owner of systems and materials that are not serving their intended use, show excessive wear and tear, or are not performing as designed. A draft of this report will be provided to the owner no more than one week following the walk through.

8.17 Time of Construction Phase

8.17.1 Any prolonged construction phase services past the construction completion date defined in the Construction Contract, due in whole or in part to Architect's failure to perform its obligations under this Agreement, shall be included in Basic Service.

8.17.2 Prolonged construction phase services not due in whole or in part to any failure of Architect to perform under this Agreement, and which exceed by less than 30 days the actual construction duration defined in the Construction Contract, or which exceed by less than 10% of the expected construction duration in Appendix C, whichever is longer, shall be included in Basic Service.

9. Operation/Project Close-Out Phase

9.1 Operation/Project Close-Out: Transition and occupancy are anticipated to occur 1-3 months after construction completion. During the Operation/Project Close-Out Phase, Architect shall, when requested by Owner:

9.1.1 Provide assistance in connection with the refining, adjusting and correcting of any equipment or systems.

9.1.2 Assist in start-up, testing and placing in operation special equipment and systems. (For all such equipment and systems, Architect shall have specified start-up and testing procedures in the contract documents.)

9.1.3 Cooperate with Owner's commissioning agent, if any, for specialized equipment and systems.

9.1.4 Provide assistance in connection with completion of punch list work including, but not limited to, preparing the initial comprehensive punch list and conducting no more than two follow up Site visits (with follow up punch listing if necessary) in addition to other responsibilities under this contract.

9.1.5 Assist Owner in coordination of training Owner's staff to operate and maintain equipment and systems as necessary.

9.1.6 Assist Owner in developing systems and procedures for control of the operation and maintenance of and record keeping for the Project.

9.1.7 Together with Owner, visit the Project to observe any apparent defects in the completed construction, assist Owner in consultations and discussions with Contractor concerning correction of such deficiencies, and make recommendations as to replacement, correction, or diminished value of defective work.

9.1.8 Together with Owner and Project Executive, coordinate, prepare and submit all final required deliverables under Title 24 and anything else required by CSA for its final Project approval.

9.1.9 Prepare electronic record sets and sets of reproducible record Drawings and Specifications showing those changes made during the construction process, based on the RFI responses, Submittal reviews, and Construction Change Directives.

9.1.10 Electronic data shall conform to Owner requirements for compatibility with Owner equipment and software.

9.1.11 Assist Owner's transition and occupancy teams as requested by Owner.

10. Payments to Architect

10.1 Payments to Architect shall be made according to Appendix B, "Payments to Architect".

11. Additional Services

11.1 Performance: Services required to be performed by Architect upon request by Owner, which are described hereinafter as Additional Services, must be authorized by Owner in writing prior to performance.

11.2 Compensation for Additional Services: Architect shall be compensated for Additional Services as set forth in Appendix B unless the parties agree on lump sum compensation for particular work activities.

11.3 Services: The following services shall be considered Additional Services:

11.3.1 Making revisions in reports, drawings, or other documents, if:

11.3.1.1 Such revisions are not necessary because of a deficiency in Architect's work, and

11.3.1.2 Such revisions are inconsistent with written approvals or instructions previously given by Owner, or are required by the enactment or revision of codes, laws or regulations subsequent to the preparation of such documents, or are due to other causes not solely within the control of Architect.

11.3.2 Changes in scope, such as revisions of approved reports or design documents. Changes in schedule can be a change in scope only if Architect has fully performed its scheduling and coordination responsibilities herein required and the changes in schedule are in addition to these responsibilities.

11.3.3 Required out-of town travel beyond limits specified in Appendix B.

11.3.4 Assistance in connection with bid protests and rebidding when such assistance is required by matters unrelated to Architect's deficient performance.

11.3.5 Property surveys or field surveys for design purposes, engineering surveys, and staking, to the extent not required by other provisions of this Agreement.

11.3.6 Preparing to serve or serving on behalf of Owner as an expert witness (but not as a percipient witness) in connection with any arbitration, administrative or other proceeding or legal proceeding.

11.3.7 Preparation of applications and supporting documents for governmental grants and permits. [However, participating in consultations and evaluation of the effect of associated requirements on the design requirements of the Project is within Architect's contract scope.]

11.3.8 Services to verify the accuracy of geotechnical information.

11.3.9 Assisting in actual claims resolution efforts when such assistance is required by matters unrelated to Architect's performance.

11.3.10 Providing any other services requested by Owner that are not otherwise included in this Agreement and are not customarily furnished in accordance with generally accepted architectural, engineering and other professional practice.

11.3.11 All work or services required as a result of any failure by Architect to perform its obligations under this Agreement shall be performed by Architect at no additional cost as part of Basic Services and shall not be deemed Additional Services.

11.3.12 Providing additional insurance coverage requested by Owner beyond that specified in the Agreement, except that no markup will be allowed. Architect shall promptly comply with such request.

11.3.13 Substitutions

11.3.13.1 Review of substitutions beyond a maximum of two (2) per trade sub-contractor package shall be an Additional Service (see Paragraph 8.10.1).

11.3.13.2 Architect shall evaluate and determine the acceptability of substitute materials and equipment proposed by Contractor.

11.3.13.3 Architect shall review quality control submittals and requests for substitution beyond the specified manufacturers from Contractor in a timely manner so as to cause no delay to the Contractor or the Project and, for the purpose of performing its review obligations herein, shall employ and engage personnel who are sufficiently qualified to conduct meaningful review and make knowledgeable comparisons of proposed substitutions.

12. Periods of Service

12.1 Milestones: Milestones for completion of Phases and tasks within each phase are given in Appendix C. Milestones shall conform to Master Schedule.

12.2 Commencement of Services: Architect shall not commence work on any succeeding phase of Services until completion of services on existing and prior phases of Service and Project Executive has provided Architect with written notice to commence the succeeding phase of Service, unless Project Executive, in its sole discretion, authorizes Architect to do so.

13. Owner's Responsibilities

13.1 Project Executive: Owner shall designate a Project Executive, who is authorized to act on Owner's behalf with respect to this Agreement. Owner or such authorized representative shall render required decisions promptly, to avoid unreasonable delay in the progress of Architect's services. Owner may delegate all or some of Project Executive's role and function to a separate contractor or to a construction manager. Owner may change the individual acting as Project Executive and/or the individual or entity acting as a separate contractor or construction manager at any time with notice to Architect.

13.2 Design Requirements: Owner shall provide criteria and information concerning design objectives and constraints, space, capacity and performance requirements, and budgetary limitations, when known.

13.3 Property Information: Owner shall provide geotechnical information, environmental impact reports, and relevant information concerning property boundaries, easements, rights of way, topographic and utility surveys, property descriptions, zoning, boundary and other land use restrictions, as needed and necessary.

13.4 Documents: Owner shall make copies of available documents and drawings of existing conditions available to Architect. Architect may inspect all Owner's surveys and records of construction. Verification of visible on-Site facilities is the responsibility of Architect.

13.5 Surveys: Owner shall provide engineering surveys to establish reference points for construction.

13.6 Hazardous Materials: Owner shall provide hazardous materials surveys and perform remediation measures to eliminate hazardous materials from Project Site.

13.7 Permits and Approvals: Architect shall assist Owner in its securing of all required approvals and permits from governmental authorities having jurisdiction over the Project, unless otherwise specified in this Agreement (for example, Architect's duty to secure all required design approvals from CSA and State Fire Marshal).

13.8 Site Access: Owner shall provide Architect reasonable access to the Site provided Architect complies with all security and safety requirements, and coordination requirements.

13.9 Resident Inspector: Owner shall supply the Resident Inspector required by the Penal Code.

END OF APPENDIX A

BUILDING INFORMATION MODELING

[To be Included in Both Architect Agreement and Construction Contract]

1. Architect's Design and Initial Hosting of BIM

1.1 Architect shall develop a Building Information Model (**"BIM"**) based on the architectural and structural designs throughout design development, including development of the Design Development Phase Drawings, the final Drawings and any modifications approved by Owner.

1.2 Architect shall develop the BIM based on best practices within applicable architectural and engineering disciplines, including without limitation the applicable level of development (**"LOD"**) for each element of the Project, and shall provide Owner with a report identifying such matters and areas for further (or lesser) development. Following Owner approval, Architect shall develop the BIM as directed or approved by Owner.

1.3 Architect shall host and manage the BIM during development of the Project's design. Architect's hosting and managing responsibilities shall include without limitation: (i.) collecting, coordinating, and the usability of, incoming models from Project participants; (ii.) maintaining periodic record copies; (iii.) aggregating incoming models and making the BIM available for use and viewing by Project participants; (iv.) performing and assisting in performing clash detection in the model and/or with any Owner-approved modifications; (v.) issuing periodic clash detection reports; (vi.) managing access rights; and (vii.) updating the BIM to reflect current designs and revisions.

1.4 Architect shall correct and clarify any clashes, coordination or issues resulting from the BIM within Architect's Basic Services. Coordination and design corrections and clarifications resulting from such further modeling (whether performed by Architect, Contractor or sub-contractors) shall be within Architect's Basic Services.

2. BIM Workshop and Pre-Construction Phase BIM Activities

2.1 If directed by Owner, Contractor and all sub-contractors that will be interacting with or using BIM information will meet with Architect and its design team to develop protocols for developing, implementing, reviewing, and exchanging information through the BIM (**"BIM Workshop"**). Through the BIM Workshop, Contractor, major sub-contractors and Architect's design team will discuss, coordinate, test and adjust their BIM practices, to allow information to be used, to the greatest practical extent, by all parties for their respective purposes.

3. Transfer to and Hosting of BIM by Contractor

3.1 Upon the completion of Final Construction Document, Architect will provide the BIM to Contractor who will host and manage the BIM through construction and until completion of the Project. Contractor will use the BIM to assist Contractor in its work to coordinate the design and the implementation of the design by Contractor and its sub-contractors. Contractor will manage the clash detection and coordination process during the construction phase, through preparation of all shop drawings and submittals necessary for construction. Contractor will continue to accomplish clash detection.

4. General

4.1 Architect and Contractor and each major sub-contractor must be capable of utilizing the BIM to perform the functions assigned to them in paragraph 3 above.

4.2 The BIM and any portion of the BIM is a work for hire for the benefit of Owner and will be provided to Owner as a contract deliverable that may be used by Owner without restriction for the

use on this Project. Architect grants to Owner a license in perpetuity to use and reproduce the BIM and any portion of the BIM for any purpose whatsoever related to this Project. Contractor and its sub-contractors shall transfer to Owner copyrights or licenses necessary for Owner to use the BIM and supporting information.

4.3 The BIM is not a Construction Document or Contract Document, and does not supplement or supersede the final permitted Drawings or Specifications.

APPENDIX B

PAYMENTS TO ARCHITECT

This is an Appendix attached to, and made a part of and incorporated by reference with the Agreement dated May __, 2012 between the County of San Mateo (the **"Owner"**), and Hellmuth, Obata & Kassabaum, Inc. (**"Architect"**) providing for professional services.

1. Maximum Payment

1.1 Owner shall pay Architect an agreed-upon sum for Basic Project Services. .

1.2 Excluding Additional Services only, the Maximum Payment to Architect for Services performed under this Agreement shall not exceed progress on the Project Services described in Appendix A, Services to be Performed by Architect, the stated budget for the Services, and the percentage allowances under Paragraph 2.2 below.

1.2 For purposes of this Appendix B, all work performed by Architect prior to this Agreement shall be deemed performed under this Agreement and considered in calculating Architect's payments due under this Agreement. The Maximum Payment to Architect described above shall apply in all circumstances except Additional Services.

1.3 Architect's fee for this Project shall not exceed $8,934,220.00.This measure shall constitute Architect's full compensation for its work.

1.4 If Owner changes the scope of the Project referenced in Appendix A Paragraph 1.1, either increasing or decreasing the scope of Architect's Services, then the parties shall calculate an amended lump sum fee based upon the revised Project value. If Owner changes Project scope after Architect has commenced work on the Project, then the parties shall agree upon an equitable adjustment limited by the original fee for the Project, Architect's incurred costs and progress under Paragraph 2.2 below, and the revised scope of work and revised fee remaining.

2. Methods of Payment for Services and Expenses of Architect

2.1 For Basic Services on the Project: Owner shall pay Architect for basic services rendered under Appendix A sum not exceeding the Maximum Payment Amount for the Project identified in Paragraph 1 above, and, for the phases listed in Paragraph 2.2 below, a sum not exceeding the amount so allocated to that phase. Within each phase listed in Paragraph 2.2 below, Architect shall be paid according to its percentage completion of each phase.

2.2 **Maximum Payment to Architect by Phase**

PHASE	AMOUNT
Programming Verification Phase	5%
Schematic Design Phase	20%
Design Development Phase	20%
Construction Document Phase	
Submittal to CSA/ State Fire Marshal	15%
Approval by CSA	10%
Bidding Phase	5%
Construction Phase	20%
Operation/Project Close-Out	5%
TOTAL BASIC SERVICES	**100%**

2.3 **Additional Services.** Owner shall pay Architect for Additional Services rendered under Appendix A as follows:

2.3.1 General. For Additional Services of Architect's principals and professional and technical staff engaged directly on the Project and rendered pursuant to Appendix A Paragraph 11, on the basis of a lump sum negotiated between the parties, or, at Owner's option, at the Billing Rates (as defined below).

2.3.2 Sub-consultants. For Additional Services of Sub-consultants employed by Architect to render Additional Services pursuant to Appendix A Paragraph 8, the amount billed to Architect.

2.3.3 Hourly Basis. For Additional Services on an hourly basis, Architect agrees that all Sub-consultants billing will be limited to a not-to-exceed amount upon prior written approval of the Owner.

2.3.4 Reimbursable Expenses, Allowance and Contingency. Except as set forth in Paragraph 2.3.5 below, Owner shall pay Architect the actual cost of all Reimbursable Expenses incurred only in connection with Additional Services. Allowance and Contingency shall require Owner's prior written approval for any Owner initiated design service.

2.3.5 Other Expenses. For expenses not required by the Agreement, the Owner shall reimburse the following expenses at a rate of **1.05** times cost, whether incurred on Basic Services or Additional Services: any plotting of Drawings, Specifications and Bidding Documents in addition to the original set plus one plot; and fees paid to government agencies on behalf of the Owner.

2.3.6 Photocopying and Postage. On Basic Services, Owner shall pay Architect 1.10 times cost for expenses for plotting, photocopying and postage.

3. Times of Payments

3.1 Architect shall be paid according to actual percentage of completion of designated phases of the Basic Services as specified in Paragraph 2.2 above.

3.2 Architect shall submit monthly statements for Basic and Additional Services rendered and for Basic and Reimbursable Expenses incurred. The statements will be based on Architect's estimate of the proportion of completion of each phase of service set forth above, utilizing the design schedule organized by task. The Owner shall promptly review Architect's monthly statement, and provided it is acceptable, shall promptly make payment thereon.

4. Definitions

4.1 "**Architect's Billing Rates"** apply to all Architects' professional personnel (Architect's and drafters) engaged directly on the Project listed below. Architect shall not bill for or receive compensation for other business or administrative personnel or secretarial personnel. For purposes of this Agreement, Architect's Billing Rates are attached as Exhibit 1 to this Appendix B.

4.2 **"Reimbursable Expenses"** mean actual expenses incurred by Architect or Sub-consultants in connection with Basic and Additional Services, such as expenses for: transportation and subsistence incidental thereto; providing and maintaining field office facilities including firm furnishings and utilities; toll telephone calls and telegrams, mail and overnight delivery services; reproduction of reports, Drawings, Specifications, Bidding Documents and similar Project-related items; and if authorized in advance by the Owner, overtime work requiring higher than regular rates.

4.2.1 Reimbursable Expenses shall not include Local Travel.

4.2.2 Travel expense beyond Local Travel for travel by automobile shall be reimbursed at the current rate set by the U.S. Government, and for travel by other means shall be the actual expense incurred by Architect.

4.2.3 **"Local Travel"** means travel between Architect's offices and San Mateo County, and travel to any location within a fifty-mile radius of either Architect's office or San Mateo County.

END OF APPENDIX B

APPENDIX C

MILESTONE SCHEDULE

This is an Appendix attached to, and made a part of and incorporated by reference with the Agreement dated May __, 2012 between the County of San Mateo (the **"Owner"**), and Hellmuth, Obata & Kassabaum, Inc. (**"Architect"**) providing for professional services.

No.	ACTIVITY	MILESTONE DATE
1.	**PROGRAMMING VERIFICATION/CONCEPT DESIGN PHASE**	June 18, 2012
2.	**SCHEMATIC DESIGN PHASE**	October 1, 2012
3.	**DESIGN DEVELOPMENT PHASE**	December 31, 2012
4.	**CONSTRUCTION DOCUMENT PHASE**	April 22, 2013
5.	**BIDDING PHASE**	July 15, 2013
6.	**CONSTRUCTION PHASE**	September 30, 2014
7.	**OPERATION/PROJECT CLOSE-OUT PHASE**	December 30, 2014

END OF APPENDIX C

APPENDIX D

DELIVERABLES

[To Be Finalized Following Finalization of Appendix A]

This is an Appendix attached to, and made a part of and incorporated by reference with the Agreement dated May __, 2012between the County of San Mateo (the **"Owner"**), and Hellmuth, Obata & Kassabaum, Inc. (**"Architect"**) providing for professional services.

Architect's deliverables under the Agreement are as follows: Architect shall submit to Owner all designs and drawings on CD or DVD or external hard drive in Revit (Rvt) [Release 2013] format, Navisworks (NWF) [Release 2013] format , Adobe Acrobat (PDF) format [version X Pro]; and specifications in Microsoft Word [version 2010] and/or Microsoft Excel [version 2010] format:

1. CSA Coordination Deliverables The deliverables required for the Corrections Standards Authority (**"CSA"**) coordination are defined in Paragraph 2 of Appendix A, and include, without limitation, the following:

1.1 Report on time required for review and approval of project plans and specifications (for inclusion in project master schedule).

1.2 Report on suggested methods of CSA pre-approval of change orders.

1.3 Report on all deferred approval items for which contractor must submit early its shop drawings, product samples and other submittals, necessary for CSA review and approval in time to not impact construction progress.

1.4 Recommendations on selection of Project Inspector, approval of proposed Project Inspector, and submit required application for approval to CSA.

1.5 Recommendations on choice of testing agency suitable for the contract.

2. Not Used.

3. Programming Verification Phase The deliverables required by the Programming Verification Phase are defined in Paragraph 3 of Appendix A and include, without limitation, the following:

3.1 Space schematics/flow diagrams.

4. Schematic Design Phase The deliverables required by the Schematic Design Phase are defined in Paragraph 4 of Appendix A and include, without limitation, the following:

4.1 Written recommendations on required additional information and data.

4.2 Preliminary estimates of times of completion, and alternatives.

4.3 Schematic layouts, sketches and conceptual design criteria, with supporting reports and exhibits.

4.4 Operational Program Statement.

4.5 Comparative studies for major building systems (for Lifecycle Alternates Workshop)

4.6 Work phasing recommendations.

4.7 Information and diagrams for required meetings.

4.8 Report of interfacing meeting with Owner groups.

5. Design Development Phase The deliverables required by the Design Development Phase are defined in Paragraph 5 of Appendix A and include, without limitation, the following:

5.1 Reports on whether further data, information or permits or reports are needed.

5.2 Written design criteria for mechanical and electrical systems.

5.3 Updated comparative studies for major building systems (for Lifecycle Alternates Workshop).

5.4 Information and diagrams for required meetings.

5.5 Technical criteria, written descriptions and design data as needed for permits and approvals.

5.6 Preparation of supplementary conditions to the Construction Contract and additional bidding requirements.

6. Construction Document Phase The deliverables required by the Construction Document Phase are defined in Paragraph 6 of Appendix A and include, without limitation, the following:

6.1 Reports on whether further data, information or permits or reports are needed.

6.2 Written design criteria for mechanical and electrical systems.

6.3 Updated comparative studies for major building systems as needed (for Lifecycle Alternates Workshop).

6.4 Information and diagrams for required meetings.

6.5 Technical criteria, written descriptions and design data as needed for permits and approvals.

6.6 Preparation of supplementary conditions to the Construction Contract and additional bidding requirements.

7. Bidding Phase The deliverables required by the Bidding Phase are defined in Paragraph 7 of Appendix A and include, without limitation, the following:

7.1 Written addenda (where necessary).

7.2 Written determinations regarding proposed substitutes.

7.3 Conformed set of drawings and specifications.

7.4 Assist Owner for Notice of Contract to CSA.

8. Construction Phase The deliverables required by the Construction Phase are defined in Paragraph 8 of Appendix A and include, without limitation, the following:

8.1 Assist Construction Manager for Notice of start of construction.

8.2 Certificates of Substantial Completion and Final Completion.

8.3 Punch lists

9. Operation/Project Close-Out Phase. The deliverables required by the Operation/Close Out Phase are defined in Paragraph 9 of Appendix A and include, without limitation, the following:

9.1 Electronic record sets and sets of reproducible record prints of drawings showing changes made during construction.

9.2 Electronic record sets and sets of prints of Technical Specifications showing changes made during construction.

10. BIM. See requirements of Attachment BIM.

END OF APPENDIX D

APPENDIX E

INSURANCE

This is an Appendix attached to, and made a part of and incorporated by reference with the Agreement dated May ___, 2012 between the County of San Mateo (the **"Owner"**), and Hellmuth, Obata & Kassabaum, Inc. (**"Architect"**) providing for professional services.

1. **Architect's Duty to Show Proof of Insurance.** Prior to the execution of this Agreement, Architect shall furnish to Owner Certificates of Insurance showing satisfactory proof that Architect maintain for the entire period required by this Agreement, as further described below, the following insurance, in a form satisfactory to Owner and with an insurance carrier satisfactory to Owner, authorized to do business in California and rated by A. M. Best & Company **"A"** or better, financial category size **IX** or better, which will protect those described below from claims described below which arise or are alleged to have arisen out of or result from the acts or omissions of Architect for which Architect may be legally liable, whether performed by Architect, or by those employed directly or indirectly by it, or by anyone for whose acts Architect may be liable:

   1.1 Commercial General Liability Insurance

   Commercial general liability insurance, written on an "occurrence" basis, which shall provide coverage for bodily injury, death and property damage resulting from operations, products liability, liability for slander, false arrest and invasion of privacy arising out of professional services rendered hereunder, blanket contractual liability, broad form endorsement, products and completed operations, personal and advertising liability, with per location limits of not less than $2,000,000 annual general aggregate and $1,000,000 each occurrence.

   1.2 Business Automobile Liability Insurance
   Business automobile liability insurance with limits not less than $1,000,000 each occurrence including coverage for owned, non-owned and hired vehicles.

   1.3 Workers' Compensation Insurance

   Workers' Compensation Employers' Liability limits required by the laws of the State of California. Architect's Worker's Compensation Insurance policy shall contain a Waiver of Subrogation. In the event Architect is self-insured, it shall furnish Certificate of Permission to Self-Insure signed by Department of Industrial Relations Administration of Self-Insurance, State of California.

   1.4 Professional Liability Insurance

   Professional Liability Insurance, either (a) specific to this Project only, with limits not less than $2,000,000 each claim, or (b) limits of not less than $2,000,000 each claim, all with respect to negligent acts, errors or omissions in connection with services to be provided under this Agreement, with no exclusion for claims of one insured against another insured. Architect shall annually provide evidence of this coverage for at least five (5) years after the completion of the Services.

2. **Insurance terms and conditions**:

   2.1 Additional Insureds:

2.1.1 Status of County of San Mateo as Additional Insured.

On Architect's Commercial General Liability and Automobile policies, the County of San Mateo, and its Supervisors, officers, officials, representatives, employees, Architects, and agents, shall be named as additional insureds, but only with respect to liability arising out of the activities of the named insured, and there shall be a waiver of subrogation as to each named and additional insured.

2.2 The policies shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits of the company's liability.

2.3 Certificates of Insurance shall include the following statement: "Written notice of cancellation, non-renewal or of any material change in policy shall be mailed to Owner in advance of the effective date thereof."

2.4 Architect's insurance shall be primary insurance and no other insurance or self-insured retention carried or held by any named or additional insureds other than that amount Architect shall be called upon to contribute to a loss covered by insurance for the named insured.

2.5 Nothing herein contained shall be construed as limiting in any way the extent to which Architect or any of its Sub-consultants or employees may be held responsible for payment of damages resulting from their operations.

END OF APPENDIX E

APPENDIX A-EXHIBIT 1

SAN MATEO COUNTY REPLACEMENT CORRECTIONAL FACILITY -FEE MATRIX 4/30/2012

HOK Team Member	Project Role	Billing Rate ($/hr)	Program Verification/Concept Design		Schematic Design		Design Development		Construction Documentation		Permitting and Bidding		Construction Administrative Services		Project Close Out/POE	
			5 weeks + 4weeks overlap with SD		15 weeks (4 weeks overlap with PV)		13 weeks		16 weeks		12 weeks + 2 weeks overlap with CD		78 weeks		5 weeks	
			# of Hours	Cost	# of Hours	Cost	# of Hours	Cost	# of Hours	Cost	# of Hours	Cost	# of Hours	Cost	# of Hours	Cost
Jeff Goodale	Director of Correctional Design/Project Director	$280	160	$44,800	480	$134,400	368	$103,040	160	$44,800	24	$6,720	160	$44,800	24	$6,720
Alan Bright	Design Principal	$300	104	$31,200	304	$91,200	104	$31,200	16	$4,800	0	$0	160	$48,000	8	$2,400
Sr. Project Designer	Sr. Project Designer	$240	104	$24,960	480	$115,200	264	$63,360	32	$7,680	24	$5,760	160	$38,400	8	$1,920
Lynn Filar	Principal-in-Charge	$325	40	$13,000	120	$39,000	104	$33,800	64	$20,800	24	$7,800	160	$52,000	8	$2,600
Bill Valentine	Design Review	$350	8	$2,800	64	$22,400	0	$0	0	$0	0	$0	0	$0	0	$0
Catherine Chan	Project Manager	$220	160	$35,200	480	$105,600	416	$91,520	512	$112,640	96	$21,120	312	$68,640	40	$8,800
Justice Planner	Justice Planner	$240	0	$0	64	$15,360	24	$5,760	0	$0	0	$0	0	$0	0	$0
Bob Schwartz	Programming Specialist	$200	104	$20,800	120	$24,000	56	$11,200	0	$0	0	$0	0	$0	0	$0
Lou Williams	Specification Writer	$200	0	$0	64	$12,800	104	$20,800	256	$51,200	96	$19,200	160	$32,000	8	$1,600
Sr. Technical Architect	Sr. Technical Architect	$190	0	$0	0	$0	56	$10,640	256	$48,640	96	$18,240	312	$59,280	40	$7,600
David Crotty	Project Architect	$175	24	$4,200	240	$42,000	416	$72,800	640	$112,000	240	$42,000	2496	$436,800	160	$28,000
Int. Architect	Int. Architect	$130	104	$13,520	448	$58,240	416	$54,080	640	$83,200	240	$31,200	2496	$324,480	200	$26,000
Int. Architect	Int. Architect	$150	104	$15,600	448	$67,200	416	$62,400	640	$96,000	0	$0	0	$0	0	$0
Sr. Interior Designer	Sr. Interior Designer	$200	8	$1,600	152	$30,400	208	$41,600	128	$25,600	96	$19,200	264	$52,800	24	$4,800
Interior Designer	Interior Designer	$110	0	$0	152	$16,720	264	$29,040	0	$0	0	$0	0	$0	0	$0
Interior Designer	Interior Designer	$120	24	$2,880	240	$28,800	416	$49,920	160	$19,200	0	$0	312	$37,440	0	$0
Int. Interiors Design Technician	Int. Interiors Design Technician	$150	0	$0	32	$4,800	104	$15,600	320	$48,000	192	$28,800	312	$46,800	24	$3,600
Sustainability Design Specialist	Sustainability Design Specialist	$220	24	$5,280	64	$14,080	104	$22,880	64	$14,080	48	$10,560	312	$68,640	24	$5,280
LEED Coordinator	LEED Coordinator	$90	8	$720	64	$5,760	104	$9,360	256	$23,040	48	$4,320	624	$56,160	40	$3,600
LEED QA/QC	LEED QA/QC	$150	0	$0	32	$4,800	24	$3,600	64	$9,600	24	$3,600	160	$24,000	8	$1,200
Director of VCD	Director of Virtual Construction Services	$240	64	$15,360	120	$28,800	96	$23,040	160	$38,400	24	$5,760	64	$15,360	32	$7,680
BIM Manager	BIM Manager	$175	48	$8,400	120	$21,000	56	$9,800	64	$11,200	8	$1,400	64	$11,200	40	$7,000
Medical Planner	Medical Planner	$240	24	$5,760	64	$15,360	104	$24,960	32	$7,680	0	$0	0	$0	0	$0
	HOK TOTAL (A)=	**$4,474,240**	1112	$246,080	4352	$897,920	4224	$790,400	4464	$778,560	1280	$225,680	8528	$1,416,800	688	$118,800

Proposed Sub-consultants

Company	Project Role	Lump Sum Fee (Note 1)	Expenses	Allowance	Comments
HOK	MEP/FP Engineering (Design-Build)	$606,370	Note 2	$200,000	Allowance for CA; DB Bid Package to be issued at 50%DD
HOK	High Performance Energy Design	$138,600	Note 2		
HOK	Landscape Design	$299,720	Note 2	$50,000	Allowance for artist (Brad Goldberg) & irrigation consultant (TBD)
HOK	BIM/Technology Enhancement		Note 2	$157,500	See note 4
Telamon Engineering	Civil Engineering	$282,980	$1,000	$99,000	See attached fee proposal for tasks included in the allowance
SOHA Engineers	Structural Engineering	$818,150	$1,000	$40,000	See attached fee proposal for tasks included in the allowance
Deleted	Cost Estimation (Deleted per Scope discussion on 3/26/12)				
Robert Glass & Associates	Security Specialist	$318,710	$24,480		
Robert Glass & Associates	Realignment Program Specialist		$4,500	$60,000	Scope to be defined later
Guidepost Solutions	Security Electronics/Telecommunication/Technology	$319,960	$20,500		
TEECOM	AV/Acoustical Design	$148,640	$5,000		
Syska Hennessy	Vertical Transportation	$84,510	$1,000		
The Marshall Associates	Food & Laundry	$70,980	$6,000		
The Fire Consultants	Life Safety	$57,330	$600		
(TBD)	Accessibility	$42,000			To be selected on T&M as needed later
(TBD)	Signage	$42,000			To be selected later
Engler Assessment	QA/QC	$51,240			
Barbara Owen	Women Detention Specialist	$21,000	$10,000		Travel expenses (for 8 trips) estimate only
Simpson Gumpertz & Heger	Waterproofing	$50,310	$1,900		
HOK	Interiors				Included in HOK Design Fees above
HOK	Medical Planning				Included in HOK Design Fees above
(TBD)	Allowance for other Specialists (e.g. Water Quality, Erosion, etc.)			$100,000	To be authorized as needed
	SUB-CONSULANT FEE TOTAL (B1, B2, B3)=	**$3,352,500**	**$75,980**	**$706,500**	
		(B1)	**(B2)**	**(B3)**	

DESIGN FEE TOTAL (A+B1)= **$7,826,740**

Reimbursable Expenses (estimates)

Printing	(includes only 3 sets of hardcopies at milestone printings and 2 sets of CSA/SFM submittal. Electronics uploads in hi-res PDF at milestones typ.)	$150,000
Out-of-town travel expenses	(includes facility tours)	$150,000
Partnering Facilitator	Assume 4 sessions at start of each phase	$25,000
	PROPROSED EXPENSES TOTAL (C)=	**$400,980**

PROPROSED SUB-CONSULTANT ALLOWANCE TOTAL (B3) (Note 3)= **$706,500**

PROPROSED CONTRACT TOTAL (A+B1+C+B3)= **$8,934,220**

Notes

1 Fees included 5% markup for non-HOK sub-consultants
2 Included in HOK expense pool
3 Not include Commissioning
4 BIM/Technology Enhancement:
Enhanced Project Collaboration Website - subscription, setup and maintenance
Virtual Reality Engine (VRE) - software, progress models of selected areas at milestones and one final hi-res model
Solibri Analysis - software, setup and milestone deliverables
Facility Management (COBie output) - setup and milestone deliverables
Peer Review - goal setting and milestone reviews

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8634

YEARS WITH FIRM
28

EDUCATION
Bachelor of Architecture, California Polytechnic State University

PROFESSIONAL REGISTRATIONS
Architect: California;
LEED® Accredited Professional

REFERENCES
Ms. Pearl Freeman
Senior Project Manager,
East Contra Costa Courthouse
415.865.4060
pearl.freeman@jud.ca.gov

Mr. Alex Karagianes
Quality Control Manager
San Mateo County Forensic's Laboratory and Coroner's Office
650.312.5309
akaragianes@co.sanmateo.ca.us

Mr. Dennis McCoy
Project Manager (Nova Partners, Inc.)
Monterey County Government Center
650.324.5324
dennis@novapartners.com

LYNN FILAR, AIA, LEED® AP

Project Role: Principal-In-Charge

Lynn Filar has been with HOK for 28 years and is a long time resident of San Mateo County. She is the management principal of HOK's San Francisco office and has led many of HOK's most successful justice and non-justice projects – such as the award winning Richard E. Arnason Justice Center and the San Mateo Sheriff's Forensic Lab and Coroner's Office. As Principal-in-Charge, she will be actively engaged in all aspects of project programming, planning, design, documentation and delivery. Lynn is renowned for timely and thorough responses and effective resolution of any client concerns. She has earned a reputation with her clients as a thoughtful listener, trusted partner, genuine collaborator and a true "win/win" problem solver. She is eagerly looking forward to, once again, working with the San Mateo County Sheriff's Office.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

◆ San Mateo County Sheriff's Forensic Lab & Coroner's Office
Redwood City, California
30,000 sq. ft., forensic lab, coroner's office

◆ San Quentin State Prison Central Health Services Building
San Quentin, California
130,000 sq. ft.; $100 million; LEED Gold

◆ Richard E. Arnason Justice Center
Pittsburg, California
New 71,600 sq. ft., three-story courthouse with seven courtrooms; LEED Silver

◆ Monterey County Government Center
Salinas, California
Complete remodel of existing 98,000 sq. ft. courthouse with 11 courtrooms; 140,000 sq. ft. new administration building

San Quentin State Prison, Condemned Inmate Complex
San Quentin, California
1,440 beds; $220 million

◆ San Mateo County Detention Center
Redwood City, California
552 beds; 60-bed licensable CTC; renovation of existing; direct supervision

San Mateo County Office Building
Redwood City, California
128,000 sq. ft.; 5 stories; fast track; design-build

Sacramento Superior Courthouse
Sacramento, California
400,000 sq. ft. criminal courthouse consisting of 48 courts, judge's chambers and administrative support space. Planned Net Zero Energy building and LEED Platinum

◆ Scott M. Matheson Courthouse
Salt Lake City, Utah
420,000 sq. ft.; 37 courts including state supreme and appellate courts

University of California, Veterinary Medicine (Building 3B)
Davis, California
Four-story, 150,000 sq. ft.

LEED Certified ◆ *Award Winning*

*experience prior to joining HOK

OFFICE LOCATION
San Francisco/Chicago

PHONE NUMBER
415.230.4420

YEARS WITH FIRM
3

EDUCATION
University of Illinois,
Urbana-Champaign

Bachelor of Science,
Architecture Studies

PROFESSIONAL REGISTRATIONS
ARCHITECT: ILLINOIS

REFERENCES
Mr. Richard Kirkland
San Quentin Central Health Services Building
Director of Construction Oversight
916.255.2585
Richard.Kirkland@cdcr.ca.gov

Larry Chandler
Elliot Prison (Kentucky)
Parole Board Chairperson,
502.523.3932
larrydch@insightbb.com

Mr. Gregory Beitel
Former Sheriff
Ogle County Sheriff's Office
815.238.6461
greg.beitel@comcast.net

JEFF GOODALE, RA

Project Role: Director of Correctional Design

Jeff Goodale is HOK's firmwide justice director, and one of firm's key principals for justice projects. In his role, he is committed to the firm's highest profile and complex projects. A planner, programmer, project manager, construction specialist and AIA award-winning designer that has practiced in justice for over 25 years, Mr. Goodale is well known in the industry for leading large project teams to highly successful results. Further, as one of the firm's specialists in project delivery, he guides clients to the best results for their projects meeting their budgetary, schedule and programmatic needs, and has in fact been said to 'make projects happen'. Key attributes to successful projects have been close collaboration, commitment to team goals, and pushing for creative solutions to complex issues.

Within the justice field, his primary focus has been on direct supervision facilities for a variety of jurisdictions, federal, state and county. In addition, he is recognized as a leader in special needs facilities, particularly in medical and mental health, including intensive participation in the California Prison Receivership program in Sacramento over the last four years. Another emphasis is on high performance buildings, facilities that achieve excellence in mission, staff satisfaction, aesthetics and energy savings. He has been directly involved in well over one million square feet of LEED Silver justice facilities, and has written construction, security and safety standards for federal government agencies and authored over twenty articles and presentations on issues closely related to direct supervision facilities.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

Douglas County Adult Detention and Law Enforcement Center
Douglasville, Georgia
500,000 sq. ft. county detention center and law enforcement facility on a 36-acre site.

Department of Homeland Security, Krome Detention Facility*
Miami, Florida
New 256-bed, 60,000 sq. ft. multi-classification housing unit for the Krome Special Processing Unit for DHS/ICE.

Federal Bureau of Prisons, Federal Correctional Institution, Medium Security Male Facility*
Pekin and Greenville, Illinois
1,200-bed, medium security facilities.

Miramar Brig Expansion*
San Diego, California
600 male and female bed expansion for the United States Navy at the Miramar Naval Air Base; Design/ Build.

Wake County-Hammond Road Detention Center*
Raleigh, Wake County, North Carolina
3,000-bed, 300,000 sq. ft. addition to a 300-bed existing jail that will open in 2012.

South Placer Adult Correctional Center*
Roseville, Placer County, California
First phase of a 980-bed adult correctional facility located at the Bill Santucci Justice Center.

LEED Certified ◆ *Award Winning*

** experience prior to joining HOK*

JEFF GOODALE, RA

MEMBERSHIPS
American Correctional Association
American Jail Association
Academy of Architecture for Justice

PUBLICATIONS
Jeffrey B. Goodale, Dave Menzel, Glen Hodgson, "High-Tech Prisons: Latest Technologies Drive Cost Savings and Staff Efficiencies," Corrections Today, 7/2005

Jeffrey B. Goodale, Michael Brenchley, "Seven Keys to Cost Cutting Through Master Planning," American Jails, 1/2005

Jeffrey B. Goodale, "New Spaces for Special Needs Populations," Corrections Forum, July/ August, 7/2004

Jeffrey B. Goodale, "Finding Cost Savings in Linking Design to Operations," Corrections Today, June, 6/2004

SPEAKING ENGAGEMENTS
Jeffrey B. Goodale, "Design-Led Design Build," American Correctional Association (ACA) Congress of Correction, Phoenix, Arizona, 1/2005

Jeffrey B. Goodale, "Design Track Detention/Corrections Design," Fifth International Conference on Justice Design, Chicago, Illinois, 10/2004

Jeffrey B. Goodale, "Designing and Building State-of-the-Art Detention and Corrections Facilities," Chicago Cultural Center, International Visitor's Center of Chicago, 8/2004

Jeffrey B. Goodale, "Instructor, Architecture History," Illinois Central College, Peoria/ East Peoria, Illinois, 1994

Ellis County Courthouse, Detention Facility and Parking Garage*
Waxahachie, Texas
240-bed jail expansion, court expansion and new vertical parking facility.

Williams County Jail Needs Assessment and Expansion*
Williston, North Dakota
New 128-bed, 80,000 sq.ft. jail, with new sheriff's department, police headquarters, 911 EOC and highway patrol.

Woodbury County Law Enforcement Center Expansion*
Sioux City, Iowa
500-bed expansion and four courtroom addition at existing downtown mid-rise jail in Sioux City.

Spartanburg County Jail Master Plan*
Spartanburg, South Carolina
Facility needs analysis and expansion feasibility study for 400, 800 and 1,200-bed expansions based on 20 year needs requirements.

Cook County Department of Corrections, Division 11*
Chicago, Illinois
New 1,200-bed facility located on the Cook County detention campus.

York County Justice Center*
York, South Carolina
300,000 sq. ft., 330-bed county jail, 96-bed workcamp, intake center, four courtroom courthouse and sheriff headquarters.

Blount County Jail Planning and Schematic Design*
Blount County, Tennessee
Correctional planner assisting in the planning and schematic design phases for this new jail.

Correctional/Prison California Prison Receivership, Co-opetition Team*
Sacramento, California
10,000 medical and mental health beds, overall program and site specific design/ build implementation at a northern California site.

Campbell County Jail Needs Assessment and Expansion*
Gillette, Wyoming
New 144-bed, 75,000 sq. ft. addition to the existing jail, renovation of the sheriff's department, new 911 EOC and morgue.

Ogle County Jail Study*
Oregon, Illinois
Planned 240,000 sq. ft. , 600-bed jail to house Immigration and Customs Enforcement (ICE) detainees.

Smith County Jail Pre-Bond, Planning and Programming*
Tyler, Texas
Programming and planning of a 300,000 sq. ft., 800-bed new downtown high-rise county jail.

Washington State Penitentiary, North Close Custody Facility Expansion*
Walla Walla, Washington
New 900-bed, 500,000 sq. ft. close custody addition to the existing historic Washington State Penitentiary; Project is LEED Silver.

LEED Certified ◆ *Award Winning*

**experience prior to joining HOK*

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8535

YEARS WITH FIRM
16

EDUCATION
State University of New York at Buffalo, *Master of Architecture*

University of Hong Kong
Bachelor of Arts, Architectural Study

PROFESSIONAL REGISTRATIONS
Architect: California;
LEED® Accredited Design Professional

REFERENCES
Mr. Jack Olson, Capital Programs/ Environmental Manager
Coyote Ridge Corrections Center Expansion, Washington State Department of Corrections
360.725.8342
jaolson@DOC1.WA.GOV

Mr. Richard Kirkland
San Quentin Central Health Services Building, San Quentin, California
Director of Construction Oversight
916.255.2585
Richard.Kirkland@cdcr.ca.gov

Mr. Jim Kachik
Alameda Juvenile Justice Center, San Leandro, California
Deputy Director, Technical Services Department
510.208.9515
jim.kachik@acgov.org

CATHERINE CHAN, AIA, HKIA, LEED® AP BD+C

Project Role: Project Manager

Catherine Chan is the co-director of the Justice Group at HOK San Francisco. She has dedicated her professional career exclusively to justice architecture. Catherine's portfolio at HOK includes courthouses, juvenile justice centers, detention centers, correctional institutes and correctional healthcare facilities. Her experience includes all phases of programming, design, construction documents and construction administration, for both new facilities and existing facility expansion. With extraordinary organizational, analytical, technical and interpersonal skills, Catherine has served as Project Manager and Project Architect on many of HOK's major justice assignments.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

Goose Creek Correctional Center
Matanuska-Susitna Borough, Alaska
Planning and design of housing units,administration and support buildings; Design-build; 1,600-bed; $205 million, 441,000 sq. ft.

◆ **Coyote Ridge Corrections Center**
Connell, Washingon
Programming, Bridging and RFP documents; $189 million; 2,048-bed; 564,000 sq. ft.

◆ **Pierce County Justice Center**
Tacoma, Washington
Programming, planning and design renovation for 1,000-bed facility.

◆ **Northwest Detention Center**
Tacoma, Washington
INS detention facility; Design-Build; $35 million; 628-bed; 160,000 sq. ft.

◆ **Claybank Adult Detention Facility**
Fairfield, California
512 beds; $58 million plus renovation.

◆ **San Mateo County Sheriff's Forensic Lab & Coroner's Office**
Redwood City, California
30,000 sq. ft., forensic lab, coroner's office

◆ **Alameda County Juvenile Justice Center**
San Leandro, California
New youth detention center and court facilities; 400,000 sq. ft.; $120 million; direct supervision

◆ **San Quentin State Prison Central Health Services Building**
San Quentin, California
130,000 sq. ft.; $100 million; LEED Gold

San Quentin State Prison, Condemned Inmate Complex
San Quentin, California
1,440 beds; $220 million

◆ **CNMI Correctional Center**
Saipan, CNMI
502 beds; $22,000,000.

◆ **State Office Building at Butterfield Way**
Sacramento, California
Government office; support facilities; parking for 4,500 cars; $218 million; 1,000,000 sq. ft.

LEED Certified ◆ *Award Winning*

*experience prior to joining HOK

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8577

YEARS WITH FIRM
28

EDUCATION
University of Oregon, *Bachelor of Architecture*

Southern California Institute of Architecture

PROFESSIONAL REGISTRATIONS
Architect: California;
LEED® Accredited Design Professional

REFERENCES
Mr. Jim Kachik
Alameda Juvenile Justice Center,
San Leandro, California
Deputy Director, Technical Services Department
510.208.9515
jim.kachik@acgov.org

Mr. Fred Cordano
Director of Facility Management
CDCR - State of California
916.845.6730
fred_cordano@ftb.ca.gov

Mr. Alex Karagianes
Quality Control Manager
San Mateo County Forensic's Laboratory and Coroner's Office
650.312.5309
akaragianes@co.sanmateo.ca.us

ALAN BRIGHT, AIA, LEED® AP

Project Role: Design Principal

With over 28 years of architectural experience, Mr. Bright is responsible for many of HOK's most progressive and innovative justice facility designs, including detention facilities, correctional facilities, courts, and sheriffs' operations centers and forensic laboratories. He is highly experienced with the complexities inherent in the design of detention facilities. His collaborative and integrated design process with the client and consultants has led to some of the country's next generation in justice facilities. The multi award winning San Mateo County Sheriff's Forensic laboratory is one example where Alan's design leadership in an integrated design process with the client led to a very functional, affordable, sustainable, and innovative facility that represents the clients goals in a sensitive and progressive solution. Alan has successfully and simultaneously worked with multiple agencies such as the sheriff's department, public works, community interests groups, and environmental agencies. His designs have not only been embraced by the community , but have led to the next generation of functional, sustainable and aesthetic architectural design in justice facilities.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

◆ Richard E. Arnason Justice Center
Pittsburg, California
New 71,600 sq. ft., three-story courthouse with seven courtrooms

◆ San Quentin State Prison Central Health Services Building
San Quentin, California
130,000 sq. ft.; $100 million; LEED Gold

◆ Alameda County Juvenile Justice Center
San Leandro, California
New youth detention center and court facilities; 400,000 sq. ft.; $120 million; direct supervision

◆ San Mateo County Sheriff's Forensic Lab & Coroner's Office
Redwood City, California
30,000 sq. ft., forensic lab, coroner's office

San Mateo County Government Center Office Building
Redwood City, California
138,000 sq. ft.

◆ Scott M. Matheson Courthouse
Salt Lake City, Utah
685,000 sq. ft.; 38 courts; 200 holding cells; CM/GC, G-MP, fast track; $62.5 million

◆ Monterey County Government Center
Salinas, California
Complete remodel of existing 98,000 sq. ft. courthouse with 11 courtrooms; 140,000 sq. ft. new administration building

◆ King County Justice Center
Kent, Washington
23 courts; 896 pre-trial cells; 791,000 sq. ft.; midrise, $117 million; direct supervision

LEED Certified ◆ *Award Winning*

*experience prior to joining HOK

ALAN BRIGHT, AIA, LEED® AP

◆ **Phoenix Municipal Courthouse**
Phoenix, Arizona
380,000 sq. ft.; 40 municipal courts; fast track; midrise; downtown location; $45 million

Marin County Detention Center
San Rafael, California
New facility; innovative "borrowed light," earth-sheltered concepts

◆ **Santa Clara County Hall of Justice**
San Jose, California
19 new court rooms; renovation (Phase II, 36 courts); 185,000 sq. ft.

◆ **Pierce County Justice Center**
Tacoma, Washington
1,000 bed detention center programming, planning and design; structured parking; direct supervision; includes renovation of existing facility

◆ **Solano County Justice Center**
Fairfield, California
New detention center 496 beds; Sheriff's Headquarters; renovation of existing courts; 280,000 sq. ft.; $40 million; direct supervision

Claybank Adult Detention Facility
Fairfield, California
362 bed, 122,307 sq. ft., $65 million maximum security facility expansion

East Multnomah County Courthouse
Gresham, Oregon
Feasibility study for the reuse of 100-year-old historic courthouse

◆ **4th Avenue Jail Expansion**
Phoenix, Arizona
1,360 beds; 4 courts; 650,000 sq. ft.; downtown high-rise detention facility; central booking for entire county; $104 million

◆ **United States Penitentiary**
Atwater, California
960 beds; 600,000 sq. ft., correctional facility; high security prison; minimum security camp

◆ **Federal Detention Center**
Honolulu, Hawaii
768 beds; 340,000 sq. ft., highrise detention center; direct supervision

City of Glendale Courthouse
Glendale, Arizona
14 coutrooms expandable to 20; preparation of bridging documents on fast track schedule; $28 million

◆ **San Joaquin County Superior Court of California Renovation**
Lodi, California
Retrofit single courtroom into existing facility.

Sonoma Detention Consolidation
Santa Rosa, California
502 beds; sheriff's HQ; courts and coroner's facilities; direct supervision

Sonoma County Detention Facility Master Plan
Santa Rosa, California

LEED Certified ◆ *Award Winning*

** experience prior to joining HOK*

DAVID CROTTY, AIA, LEED® AP BD+C

Project Role: Project Architect

Mr. Crotty has a depth of technical and design experience from over 17 years practicing architecture in the Bay Area. His body of work includes complex public and commercial buildings such as prisons, hospitals, laboratories, and transportation facilities. His projects are renowned for scrupulous attention to detail and for exacting multi-disciplinary coordination. His buildings have received widespread acclaim including multiple awards from industry associations.

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8632

YEARS WITH FIRM
5

EDUCATION
Tulane University,
Master of Architecture

The College of William and Mary,
Bachelor of Economics, Minor in Studio Art

PROFESSIONAL REGISTRATIONS
Architect: California;
LEED® Accredited Design Professional

REFERENCES
Lt. Mitch Mashburn
Solano County Sheriff's Department
707.421.6103
MHMashburn@SolanoCounty.com

Mr. Robert St Germaine
CDCR Facility Captain
San Quentin Central Health Facilities:
916.201.9489
robertstgermaine@cdcr.ca.gov

Mr. Bobby Khaghani
San Quentin Condemned Inmate Complex
CDCR Project Director
916.255.2882
Bobby.khaghani@cdcr.ca.gov

REPRESENTATIVE PROFESSIONAL EXPERIENCE

◆ San Quentin State Prison Central Health Services Building
San Quentin, California
130,000 sq. ft.; $100 million; LEED Gold

Claybank Adult Detention Facility
Fairfield, California
362 bed, 122,307 sq. ft., $65 million maximum security facility expansion

Claybank Adult Detention Facility Remodel
Fairfield, California
New central control and security electronic systems upgrade.

Sonoma Co. Detention Center Expansion Study
Santa Rosa, California
864 bed addition with new intake/release, kitchen and CTC; direct supervision

National Oceanic & Atmospheric Administration (NOAA) Pacific Region
Pearl Harbor, Hawaii
Adaptive reuse of two historic hangars; and new 400,000 sq. ft. of construction linking the two hangars. LEED Gold anticipated

New Doha International Airport, Mosque
Doha, Qatar
588,000 sq. m.

LEED Certified ◆ *Award Winning*

Kings College, Cornwall House*
London, England
20,000 sq. m., £30 million, adaptive reuse of historic warehouse into a medical research and teaching center.

Kaiser Permanente, Santa Clara Medical Center*
Santa Clara, California
1,200,000 sq. ft., $374 million
Phased construction; comprehensive range of inpatient and outpatient services in three building complex, connected by pedestrian bridges.

Mercy Cancer Center*
Merced, California
13,000 sq. ft., $2.9 million, includes three primary program components: radiation oncology, medical oncology infusion, and outpatient clinics, as well as a resource center for public education and research.

University of California Davis, Contained Research Facility*
Davis, California
$10.3 million, 24,000 sq. ft., provides natural research conditions in a highly secure, biologically contained environment: Bio-Safety Level (BSL) 2 and 3 labs, growth chambers.

*experience prior to joining HOK

SCHEDULE OF STANDARD HOURLY RATES
Hellmuth, Obata & Kassabaum, Inc.
January 1, 2012

Architecture	Principal			$325.00
	Director	265.00	-	300.00
	Sr. Project Manager	200.00	-	260.00
	Project Manager	180.00	-	250.00
	Sr. Project Designer	195.00	-	300.00
	Project Designer/Planner/Programmer	180.00	-	240.00
	Construction Admin/Spec	185.00	-	200.00
	Sr. Project Architect	195.00	-	240.00
	Project Architect	160.00	-	195.00
	Job Captain	140.00	-	160.00
	Designer	140.00	-	180.00
	Senior Architectural Technician	120.00	-	150.00
	Intermediate Arch Technician	95.00	-	140.00
	Junior Architectural Technician	75.00	-	95.00
Planning	Principal/Director			$300.00
	Sr. Project Designer/Project Manager	140.00	-	240.00
	Intermediate Planner/UD/Landscape Arch	120.00	-	150.00
	Junior Planner/UD/Landscape Arch	90.00	-	120.00
Interiors	Principal			$350.00
	Director			300.00
	Senior Project Designer/Manager	160.00	-	220.00
	Project Manager	165.00	-	200.00
	Project Designer	150.00	-	175.00
	Job Captain	130.00	-	150.00
	Senior Technical	120.00	-	145.00
	Intermediate Technical/Designer	90.00	-	120.00
	Junior Technical	75.00	-	90.00
Consulting	Director			$300.00
	Specialist	200.00	-	250.00
	Senior Consultant	140.00	-	175.00
	Consultant	90.00	-	140.00
	Analyst	70.00	-	90.00
Engineering	Director			$300.00
	Chief Engineer	200.00	-	270.00
	Project Engineer	150.00	-	185.00
	Project Engineering Designer	125.00	-	175.00
	Engineer	125.00	-	150.00
	Engineering Designer	110.00	-	150.00
	Sr. Engineering Technician	110.00	-	120.00
	Engineering Technician	85.00	-	110.00
	Drafter	75.00	-	85.00
	Clerical	70.00	-	90.00

NOTE: All billing rates are subject to annual adjustment on April 1, 2013.

REPLACEMENT CORRECTIONAL FACILITY

SAN MATEO COUNTY
PROFESSIONAL ENGINEERING SERVICES

Proposal | February 29, 2012

HOK

February 29, 2012

Catherine Chan
Project Manager
HOK, Inc.
One Bush Street, Suite 200
San Francisco, California 94104

San Mateo County Replacement Correctional Facility
Professional Engineering Services Proposal

Dear Selection Committee:

HOK Advance Engineering is proud to be considered forengineering services for San Mateo County. HOK Advance Engineering is a national expert in corrections facility design and our team will commit to be innovative and design robust high performance building systems for the San Mateo County Replacement Correctional Facility. We also possess experience in integrating these systems into design build documents. This approach requires an optimum balance of systems definition and design criteria in a way that contractors can understand as they continue to develop the design.

HOK practices integrated design on a daily basis and understands how to optimize the process. We believe our collaborative approach with San Mateo County will be essential in creating a dynamic environment where Art, Science and Knowledge combine in harmony.

On behalf of the entire HOK Adfance Engineering team, thank you for considering us for this terrific opportunity. We are excited to work with you and look forward to making this project a remarkable success. If you have any questions, call me on my direct line at 415.356.8525 or email me at John.Pulley@hok.com.

Sincerely,
HOK, Inc.

John Pulley, PE, LEED AP BD+C
Principal Engineer
Director of Engineering

1. Collaborative
Interdisciplinary Design

PROJECT APPROACH

Los Angeles Metro Detention Center

ADVANCE ENGINEERING

Advance Engineering is a creative and collaborative design process that combines art and science in a creative way. Advance Engineering integrates design and Building Physics to optimize sustainable outcomes, ecology, life cycle costs and occupant comfort.

HOK Advance Engineering consists of two specialized groups.

The Advance Building Physics Group is the Research & Development, High Performance Strategies, and Building Simulation and Modeling Group.

Samplings of services provided are: Climate Analysis and Context Review, Solar Radiation Analysis, Energy Simulation Modeling, Daylighting Analysis, Renewable, Sources Assessment, Thermal Analysis, Air Flow and Computation Fluid Dynamics, Occupant Comfort, Water Analysis, Waste Management, Onsite Generation Strategies, and Carbon Analysis.

The group consists of a blend of architects and engineers and closely embodies the Integrated Design and BuildingSmart initiatives and principles.

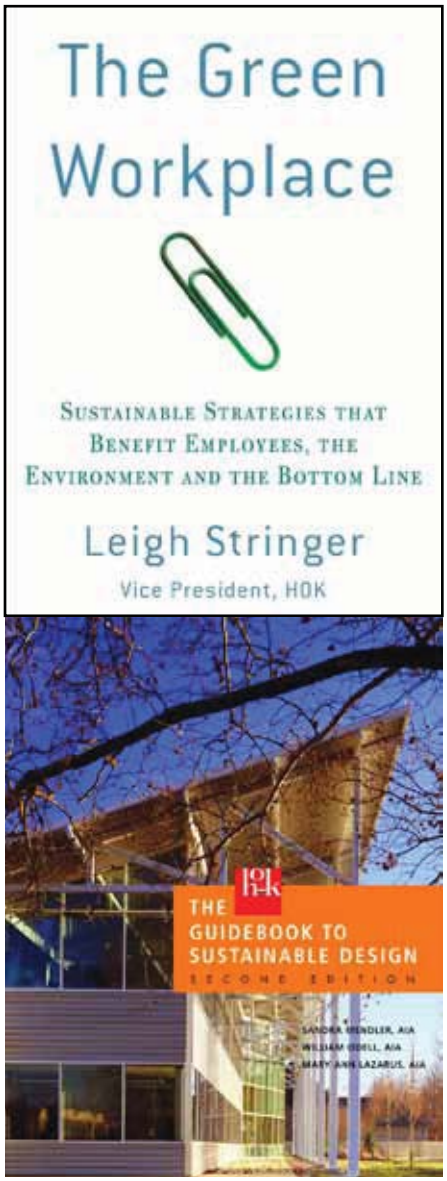
The Advance Engineering Building Systems Group.
This group enhances the traditional MEP approach by taking on a more European model to building systems design. It looks at building services from a holistic methodology and merges building systems into the architecture to achieve a high performance outcome. The group consists of HVAC, Electrical, Plumbing and Fire Protection disciplines. Each group is organized into a number of teams utilizing a "studio" approach embedding engineering within architectural groups and project teams. This type of structure is very flexible and lends itself to develop teams to suit specific projects.

Our local staff brings energy and an earnest dedication to design excellence, effective management and client satisfaction. We have established a niche in the design of office-related facilities, corporate campuses, high-tech facilities, laboratories, airports and justice facilities. Our diverse portfolio of projects means that we are positioned above our competitors on the learning curve. HOK's preeminence in the field of design helps our clients to achieve "faster-better-bottom line" delivery of a facility that meets the schedule and budget requirements.

We have expertise in the design of HVAC (heating, ventilation, and air conditioning), automated building controls, plumbing, fire protection, electrical, emergency power, lighting, telecommunications, and security electronic systems for diverse building types. Virtually every member of the HOK San Francisco Engineering team is a Professional Engineer and LEED Accredited. As a whole, the group

PROJECT APPROACH

(CONTINUED)



Top: The Green Workplace, Leigh
Bottom: The HOK Guidebook to Sustainable Design

is considered among HOK's most knowledgeable sustainability resources. HOK Engineering's award winning projects demonstrates the full range of expertise from introduction of energy savings techniques to comprehensive design efforts that explore the full range of sustainable technology.

SUSTAINABILITY DESIGN

HOK is committed to preserving the environment for future generations through sustainable design. Through all levels of our organization we have the unique opportunity to promote environmentally sensitive design. HOK's Advance Engineering Group investigates sustainable design opportunities in energy, indoor air quality, and water conservation. HOK is the expert in understanding the criteria for LEED Certification and can assist clients in applying design measures and building techniques that help achieve sustainability goals.

INTEGRATED SERVICES

Our in-house planning, building architecture, interior design, mechanical and electrical engineering, and facilities consulting groups can provide San Mateo County with comprehensive and fully integrated service. Supported by our international network of research, resources and expertise, HOK continues to lead in the development of strategies and applications that improve workplace efficiency and comfort, while adapting to the changing nature of our economy, culture and society.

BUILDINGSMART

HOK is at the forefront of adapting new technologies to improve project delivery methods in an industry initiative called BuildingSMART. The effort centers on the use of a Building Information Modeling (BIM), which is the development of the building in a 3D model form from the beginning using new tools like Autodesk's Revit. 3D modeling of all of building elements (including structural, MEP, skin, etc.) not only enhances project visualization, but detects potential design issues prior to construction. This feature alone is changing how buildings are designed and built.

Working together, designers and contractors now have an unprecedented level of confidence in details and constructability issues. Among the implications of this advancement is that many expensive and time consuming building elements now built on site can be pre-fabricated off-site saving time and money, while improving quality. It also means easier and earlier development of quantities for earlier and more precise cost estimating. Unlike many outside consultants that take the architects Revit model and convert it to 2D CAD, HOK Engineering uses and embraces the same high BIM standards that are used by our architect partners.

DESIGN PHILOSOPHY

COST CONTROL

Cost control continues throughout design phases, with the establishment of the budget, and development of a comprehensive cost model.

PROJECT APPROACH

(CONTINUED)

Top: Los Angeles Metro Detention Center
Bottom: Coyote Ridge Correctional Center

The cost model is organized by building components (HVAC, etc.), and is built upon our cost consultant's extensive database of actual cost information from a variety of similar projects. Throughout the design process, as the design is developed in greater detail, the estimated cost of each component is compared against the original targets, and proposed adjustments, if necessary, are developed and reviewed with the San Mateo County, together with the design team's recommended means to bring the total cost within the budget.

VALUE ENGINEERING

At each stage of the design process, and with the participation of the entire design team, HOK will use value-engineering methods to evaluate alternative systems, arrangements, and materials. This procedure will examine and evaluate not only the construction costs, but also the functional, aesthetic, maintenance, energy costs and other considerations. Our objective will be to identify solutions which afford the greatest long-term value and whose first costs are affordable. HOK has extensive experience in performing such studies.

SCHEDULING MANAGEMENT REPORTING SYSTEMS

The HOK team will make every effort to ensure that schedule objectives will be met. The team will develop a work plan with the entire project team to ensure that the schedule milestones will be achieved. We will also prepare a detailed manpower-loaded schedule for the design phases. It will be used as the basis for allocation of manpower to the project, so that the team can anticipate a plan for staff resources over the life of the design phases. The progress of the design versus the scheduled milestones will be a regular topic for review and discussion at the weekly project management meetings. Information and actions needed to maintain the schedule would be highlighted. The schedule will be computer-based in order to facilitate periodic updates of progress against the schedule.

CONCEPT DESIGNS

After the program and initial cost budgets have been satisfactorily completed, the design team can proceed to development of potential solutions or concepts. Two or three MEP system options will be explored and evaluated by HOK Engineering and presented for thorough discussion with the rest of the design team. These alternatives will indicate such components as durability, efficiency, ease of use, maintenance, and flexibility. These multiple design concepts will be presented and a final review with all parties involved in the project, from which a single, clear concept is established. Approval of this concept will be required from San Mateo County before proceeding with final schematic design.

PROJECT APPROACH

(CONTINUED)

Top: Johnson County Adult Detention Facility, Bottom: Saipan Detention Center

SCHEMATIC DESIGN

The focus of Schematic Design will be to establish the basic building system components. During this phase, system layouts and capacities will be functionally tested with input from the San Mateo County team. Sustainable features will also be studied for their integration into the building design. The BIM model will be developed in this phase to track program elements, provide spatial analysis, and introduce primary building components such as structure, mechanical distribution and piping. These basic building blocks can be "built" to quickly show design opportunities. This BIM model will also provide three-dimensional information to allow the project team to follow the development of the design. Specific project tasks and elements that will be conducted during schematics will include:

- Refinement of selected MEP systems concept
- Preliminary code analysis
- Fully engaged consultant team
- Define specialty areas with specific design criteria
- Establish building metrics
- Preliminary LEED checklist

As Schematic Design develops, cost implications of design decisions will be brought to San Mateo County's attention throughout the process. Any budget changes will be resolved in writing before work proceeds. HOK strongly recommends that any changes be made with the full participation of HOK Advance Engineering and the rest of the design team. At the end of Schematic Design, a preliminary cost analysis will be conducted to assure conformity with the budget.

DESIGN DEVELOPMENT AND DESIGN BUILD BASIS OF DESIGN

At this point, HOK, consultants, contractor, and San Mateo County will have the greatest ability to influence and shape the design and cost of the project. The team will study the basic building materials and systems will be defined. Since in this case a Design Build project delivery process is being used HOK Engineering will develop a Basis of Design in order to define the services and systems to be delivered by the design-build contractors. Our detailed approach to the Basis of Design is further defined in the Approach to Design Build Section.

INTEGRATED PROJECT APPROACH

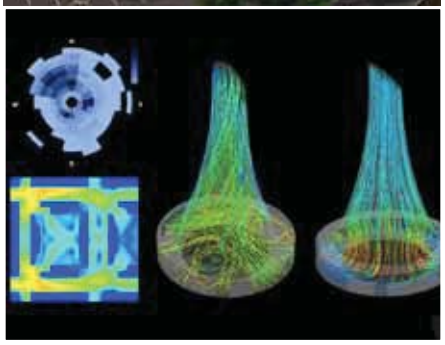
ASK HOK

HOK Advance Engineering is committed to the process of ASK HOK. As described in our architect's proposal, our approach and strategic vision is founded on the confluence of three fundamental elements of project delivery:

- **A**rt… transforming space and experience through the power of aesthetics
- **S**cience… maximizing efficiency and sustainability through the application of technology
- **K**nowledge… driving program innovation through expertise and experience

PROJECT APPROACH

(CONTINUED)



Top: Coyote Ridge Correctional Facility
Middle: Claybank Adult Detention Facility
Bottom: Comprehensive Dynamic Wind Modeling

Each of these elements informs one another throughout the process in achieving highly successful results for our clients. We believe that each project should result in a specific and unique solution, the fundamental value of which is evidence-based design and it's essential relationship to aesthetics and science. Our aim is to collaborate with our clients, consultants and building partners to define and implement a project process designed to deliver the most appropriate, elegant and effective solution.

- We work to understand your issue, drivers and goals
- We work to integrate environmentally sensitive concepts into planning and implementation strategies
- We work to get architecture out of the way of change

PARTNERSHIP AND COLLABORATION

ASK HOK is rooted in the idea that the best projects come from a true partnership among all members of the project team in creating a comprehensive design vision. HOK advocates an integrated approach that involves the entire spectrum of participants from clients, user groups, permitting agencies, engineers, utility providers, builders, specialty consultants and architects. This process is essential in creating holistic designs that address the full range of project issues. The key to HOK's success is the ability of its project teams to work collaboratively toward achieving the project's design goals without sacrificing program features in favor of lower initial construction costs. We believe having the right people from all disciplines at the table from the beginning creates the most thoughtful and innovative facilities inspired by a common vision.

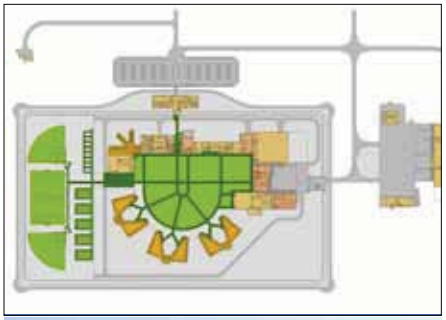
ASK HOK – AN INTEGRATED PROCESS

Employing the principals of ASK HOK, we have successfully delivered large and complex public projects in California and around the world. In the process we have learned that how and when information is collected, processed, integrated, shared and communicated is absolutely vital to project quality and success. We intend to employ an inclusive, consensus based and highly interactive approach. It will include numerous workshops, interactive web-sites, one-on-one discussions, surveys, case studies and presentations; all will be aimed at bringing stakeholders and key decision makers into agreement on the parameters, goals, budget, and planning principles that will guide project evolution and delivery.

HOK Advance Engineering is focused on the "S" of ASK and frames the questions necessary in order to make sure that high performance is integrated into the design and validated by engineering science. Our ability to analyze, simulate and model high performance strategies and then translate those outcomes into designs that are cost effective, simple, constructible and

PROJECT APPROACH

(CONTINUED)



Top: FBOP Herlong Federal Penitentiary
Bottom: San Mateo County Forensics Lab

maintainable gives HOK Advance Engineering a distinct advantage.

PROJECT STEPS

STEP 1: TEAM KICK-OFF MEETING

As part of the "Big Room" approach HOK Advance Engineering will actively participate to establish the formal goals, objectives and scope of the project. HOK will discuss with San Mateo County thoughts concerning the factors that will contribute to and support the success of the project.
Based upon these meetings, HOK Engineering will develop a schedule of activities indicating project tasks to be performed, their duration, completion dates, presentations, decision milestones and all meetings required to complete the project.

STEP 2: DESIGN OPTIONS

From the information collected in Step 1. (Kickoff), HOK will generate system options for review. Each option will be an amalgam of ideas drawn from information gathered. These options will pose a range of issues, advantages and constraints in each building. These options will frame design from the outset, where one option (or hybrid of options) will be selected for refinement, documentation and implementation. We will coordinate all design work with HOK Architecture and the rest of the design team.

STEP 3: REFINEMENT

The Preferred Option from Step 2 will be refined further as a step toward final building design. During this phase, HOK will support the design team in making a number of key decisions that will essentially set the project parameters.

FINAL STEP: IMPLEMENTATION

Utilizing the BIM model, HOK will assist the CM and the Design Build Contractors to provide design reviews. Since high performance strategies and building systems are integrated into the architecture it is essential that the design build engineer implement these strategies and that value engineering take place as part of the design process. It would be catastrophic to value engineer these systems out at the end of design and not achieve the sustainable and efficiency goals of the project.

Utilizing the CM and Design Build project delivery method, construction administration will be limited. However we feel that it is important to oversee the construction of the facility in order to ensure that the high performance integrated design is implemented and the project is successful. HOK's role in facilitating communications and coordination among San Mateo County's operations staff, the design team, and contractor can greatly affect the attitude of the team in achieving a common goal of a high quality project constructed on schedule, within

PROJECT APPROACH

(CONTINUED)

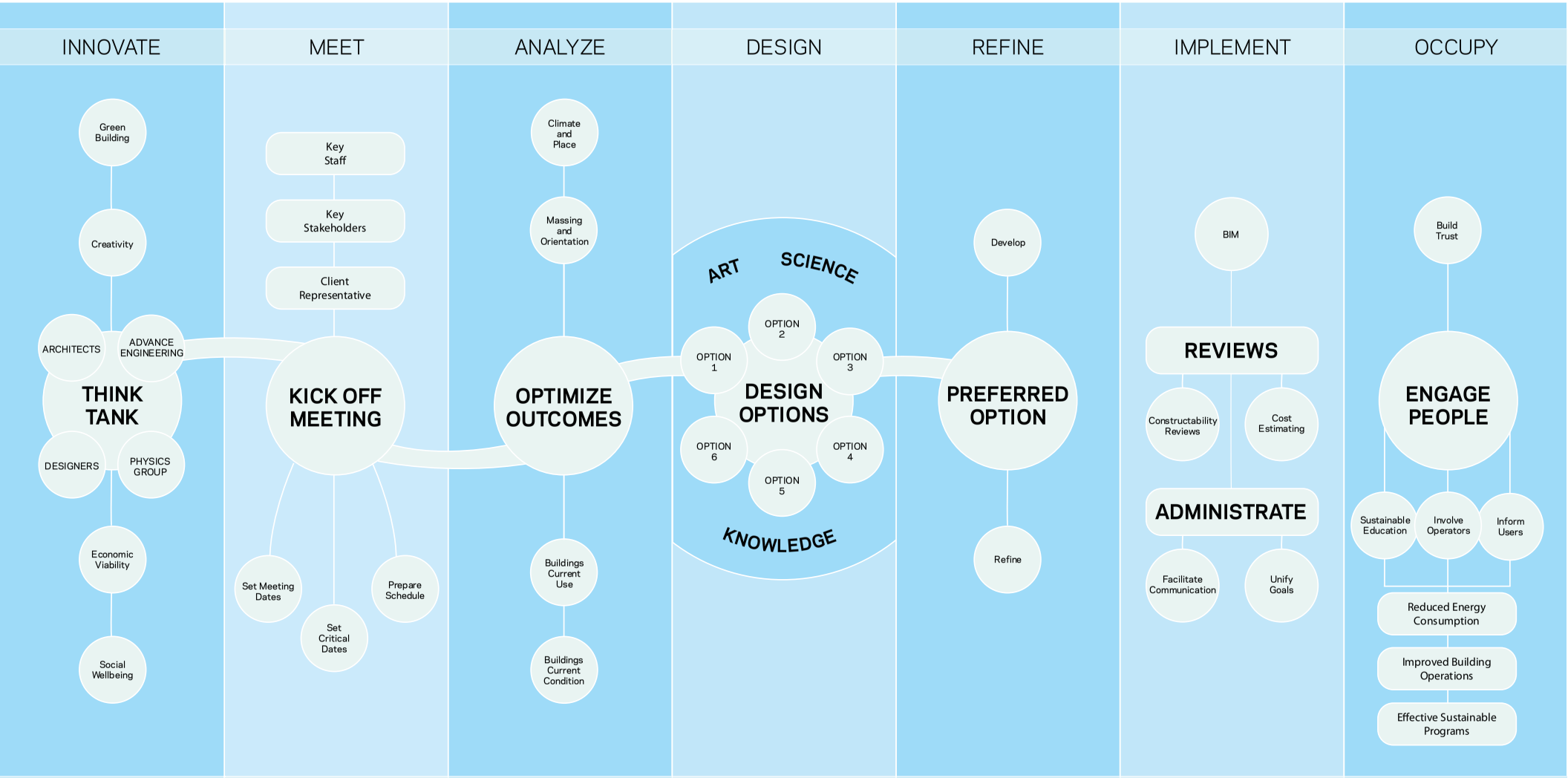
Top: Los Angeles Metro Detention Center
Bottom: Maricopa County Justice Center

budget and with no unresolved claims. HOK has defined the following principles, which create a positive, productive, and professional working relationship with the construction team.

HOK's construction administration personnel are committed to these principles:

- Promotion of the team concept
- All members of the team must have the same goal: successful completion of the project
- Have a clear understanding of the responsibilities of all parties to the construction process.
- Respect the profession, responsibilities and knowledge of the other team members.
- Eradicate all pre-conceived notions or stereotypes.
- Produce timely, accurate and honest communication.

The first priority is solving problems, which has been enhanced by the use of the BIM software. HOK delivers a fair, ethical and impartial decision making process during construction with the goal of achieving a successful project. An important portion of construction administration that keys this success is the processing and control of all documents and correspondence. Timely responses and open communication between the HOK Engineering, Architect, San Mateo County, and the contractor are vital.



A part of HOK's Advance Engineering is the High Performance Building Physics Group. This group is focused on innovation and serves as the group's "think tank". We draw from green building design principals while understanding environmental integrity, economic viability and social wellbeing. We test the ideas created here and optimize the best solution.

HOK Advance Engineering will schedule and conduct a meeting with your representative(s) to establish the goals, objectives and scope of the project. Key team members will commit to the meeting dates, client review periods, project design approval dates and due dates for supplying key data. HOK Advance Engineering will also indicate critical dates that must be met to ensure the completion date.

As a result of the Kick-Off meeting and the Big Room process, there would be a list of ideas and strategies that would require further analysis and validation. It would include strategies from design options such as building massing, solar studies, envelope optimization, daylight-ing analysis , passive strategies and MEP system design. It is anticipated that there would be a different synergy between these individual strategies and systems that would then be further studied and optimized.

From the information collected in the previous steps, HOK will generate system options for review. Each option will be an amalgam of ideas drawn from information gathered. These options will pose a range of issues, advantages and constraints in each building. These options will frame the design from the outset, where one option will be selected for refinement, documentation and implementation.

Once the design options have been reviewed, a preferred option will be chosen. This preferred option will be refined further as a step toward final building design. During this phase, HOK will support our client in making a number of key decisions that will essentially set the project parameters.

Utilizing the BIM model, HOK will conduct constructability reviews. Concurrently, HOK will develop cost estimates during the course of the project to test concepts and analyze proposed changes. During bidding, HOK will assist our client by review-ing and analyzing the bids and making recommendations. In the Construction Administration phase, we will facilitate communication and coordination among the team, the client and the contractor.

Employees understand all too well that is much easier to keep and grow current employees rather than hire new ones. We believe that the key to increasing the function of the building is to effectively engage people. All of our systems, processes and protocols will not achieve the desired result without engaged participants. These engaged participants are taught how to use the building to meet energy and sustainability needs.

DESIGN BUILD APPROACH

An Owner may choose the design-build process to deliver the mechanical, electrical, plumbing, and fire protection (MEP) systems for a project in order to reduce the construction costs or to shorten the over-all design and construction schedule.

Whatever the reason, a strong and thorough Basis of Design document (or "design-build specification") and the continued involvement by an independent engineer working on behalf of the County, can be instrumental to help assure that the MEP systems are designed and installed to meet the County's expectations for cost, quality, energy-efficiency, maintainability, durability, and occupant comfort.

The MEP Basis of Design (BOD) document prepared by the HOK Engineering Group would be intended to perform the following functions:

- Define the services and systems to be delivered by the design-build contractors. Integrate high performance systems and sustainable strategies into the design
- Establish a minimum level of quality and collaborate with the design-build engineers to achieve MEP system designs which meet codes and the project requirements in an efficient and cost-effective manner
- Make it clear to the bidders what is important to the County, without unduly limiting their options or reducing the responsibilities of the engineers of record.
- Identify equipment manufacturers that are acceptable to the County, and those which may not be.
- Identify the responsibilities of each trade in achieving the different LEED credits, so that the overall project achieves LEED certification at the level desired by the County.
- Describe the process during design and construction that the design-builders need to follow, such as participation at meetings, submission of progress design drawings, and submission of equipment shop drawings.
- Allow prospective contractors to bid on the work in an effective "apples-to-apples" manner.

The project's design-build MEP engineers will be expected to follow the BOD as much as possible, while at the same time applying professional judgment and sound engineering practice, consistent with:

- Existing conditions
- Applicable codes and regulations
- County design and construction standards
- Local climate
- Local construction practices

The HOK Engineering Group could participate in the ongoing process as follows:

- Prepare draft version of the BOD and issue it for review by the County and other team members.
- Incorporate comments and issue final version of BOD.
- Respond to MEP bidders' questions.
- Participate in interviews with bidders.
- Respond to design-build engineers' questions during design.
- Review MEP design drawings (such as at 50% and 90% completion) to check for compliance with the BOD and good industry practice.
- Perform site visit walk-throughs during construction to verify the MEP installation is consistent with the BOD and contractors' design drawings.
- Participate in commissioning process.

3. Insurance Requirements

INSURANCE REQUIREMENTS

HOK can fulfill the insurance requirements set forth in the HOK sub-consultants insurance guidelines spreadsheet.

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	Project Information										Location			Delivery			Teaming Experience			
	Year of Completion	**Construction Cost** *(in $Millions)*	**Gross Area** *(in square feet)*	**No. of Beds (Design Capacity)**	**Direct Supervision**	**No. of Building(s)**	**No. of Storey(s)**	**LEED Certification** *(None, Certified, Silver, Gold or Platinum)*	**BIM Usage** *(answer yes if a design model was created for coordination and deliverable)*	**New Facility - Full Service Design** *(not part of TI project)*	**Redwood City (RWC)**	**San Mateo County (SMC)** *(if not in RWC)*	**State of CA** *(if not in RWC/SMC)*	**CM at Risk**	**Design-Build**	**Direct Relevant Experience -** *Have one or more of your proposed key personnel worked on this project?*	**HOK**	**Hensel Phelps**	**McCarthy**	**Sundt-Layton**
Claybank Adult Detention Facility, CA	2014	$65M	126,756	362	Yes	1	1 + Mezz	Silver Expected	Yes	Yes			Yes	No	No	Yes	Yes			
San Quentin Condemned Inmate Compelx, CA	2011	$203M	600,000	1,024	No	21	4	None	No	Yes			Yes		No	Yes	Yes			
Johnson County Adult Detention Facility, KS	2009	$50.7M	160,374	554	Yes	1	5	None	No	Yes				Yes	No	Yes	Yes			
Los Angeles Metro Detention Center, CA	2009	$75.2M	174,404	500	No	1	3	Silver	No	Yes			Yes	No	No	Yes	Yes			
Coyote Ridge Correctional Facility, WA	2009	$189M	564,000	2,048	Yes	21	1 + Mezz	Gold	No					No	Yes	Yes	Yes			
Arizona State Prison Florence, AZ	2006	$40M	202,000	224	No	11	1 + Mezz	None	No	Yes				No	No	Yes	Yes			
Kings County Jail Addition, CA	2006	$28M	124,000	335	No	2	1 + Mezz	None	No	Yes			Yes		No	Yes				
Saipan Detention Center, CNMI	2005	$22M	N/A	342	Yes	2	1 + Mezz	None	No	Yes					No	Yes	Yes			
INS South Texas Detention Complex, TX	2005	$33.7M	238,000	1,110	Yes	1	1 + Mezz	None	No	Yes					No	Yes	Yes			
Maricopa County Justice Center, AZ	2004	$100M	650,000	1,360	No	1	4	None	No	Yes					No	Yes	Yes		Yes	
Northwest Detention Center, WA	2004	$35M	160,000	800	Yes	1	1 + Mezz	None	No	Yes - Electrical					Yes - M&P	Yes	Yes			
Pierce County Jaill Addition, WA	2003	$53M	N/A	1,000	Yes	1	4	None	No	Yes					No	Yes	Yes			
Supplemental Projects																				
San Mateo County Forensics Lab, CA	2003	12.4M	$29,000	N/A	N/A	1	1	Certified	No	Yes		Yes					Yes			

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8525

YEARS WITH FIRM
2

EDUCATION
University of Missouri, Bachelor of Science, Mechanical Engineering

Drake University
Bachelor of Arts, Physics

PROFESSIONAL REGISTRATIONS
Professional Engineer: California; LEED® Accredited Design Professional

REFERENCES
Mr. Kevin Robins
Project Manager
Salt Lake City International Airport, Modernization Program
801.575.2961
kevin.robins@slcgov.com

Dennis Bennett
Iowa Infrastructure Board – Chairman
State of Iowa Infrastructure
515.288.3679
dbennett@twinriverseng.com

Steve Huh
PDI World Group
Lotte World (Busan, South Korea)
612-702-0203
shuh@pdiworldgroup.com

JOHN W. PULLEY, PE, LEED AP BD+C

Project Role: Project Principal

John has over 30 years of professional experience in engineering design, project management and management. His work emphasizes a holistic approach to design that results in elevated, integrated, and high performance building systems and sustainable design. As the high performance building systems director, Mr. Pulley is involved with many market sectors including Justice. He has a global perspective that allows him to apply innovative strategies from other sectors to his justice projects. In particular, he has a strong interest in applying Net Zero Energy to corrections projects. Mr. Pulley is a member of a number of ASHRAE Technical Committees and is considered an expert on high performance systems. A key to success, is his collaborative working style with clients, design team members and staff and his ability to simplify integrated building systems.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

Claybank Adult Detention Facility
Fairfield, California
362 bed, 126,756 sq. ft., maximum security facility expansion

Sacramento Superior Courthouse
Sacramento, California
400,000 square foot criminal courthouse consisting of 48 courts, judge's chambers and administrative support space. Planned Net Zero Energy building and LEED Platinum

Iowa State Penitentiary
Fort Madison, Iowa
Peer review for new men's maximum security prison

Iowa Judicial Building*
Des Moines, Iowa
120,000 sq. ft., five-story facility. Parking Garage, the Iowa Supreme Court Courtroom, the Appellate Court Courtroom, a Law Library and General Office Space; LEED Silver.

Confidential Correctional Facility Expansion
Southeast United States
Expansion which included dayrooms and additional beds

Confidential New Correctional Facility
Southwest United States
New facility which includes dayrooms and beds

Dallas Performance Hall*
Dallas, Texas
A 750 seat acoustically flexible proscenium theater

Inland Steel Building*
Chicago, Illinois
19 story, 325,000 sq. ft. building. Designed to meet LEED Platinum standards

◆ Moscow Embassy Annex Office Building
Moscow, Russia
15,000 sq. m.; Includes office space for approximately 300 personnel, apartments and a parking structure. Expected to achieve LEED Platinum and be completed in 2014.

LEED Certified ◆ *Award Winning*

** experience prior to joining HOK*

DAVE TROUP, P.E., LEED® BD+C

Project Role: Project Manager

Mr. Troup has more than 38 years of professional experience. He collaborates with owners, clients, consultants, building officials and contractors to develop project parameters and design criteria. His experience encompasses all phases of a project: HVAC system design, equipment selection, preparation of contract documents, and construction and start-up inspection services. Project types include corporate headquarters, computer centers, office buildings, hotels and

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8517

YEARS WITH FIRM
21

EDUCATION
Master of Engineering
University of Detroit, 1973

Bachelor of Mechanical Engineering, Magna Cum Laude
University of Detroit, 1973

PROFESSIONAL REGISTRATION
Registered Mechanical Engineer: California & 14 other States

LEED® Accredited Professional BD+C

REFERENCES
Jack A. Olson, PE
Project Director
Coyote Ridge Corrections Center
360.725.8342
jaolson@DOC1.WA.GOV

Scott Hogman
County's Project Manager
(now w/ Heery International)
Pierce County Jail Addition and Renovation
425.936.1864
shogman@heery.com

Mitch Mashburn
Solano County Sheriff's Office
Claybank Adult Detention Facility
707.421.6103
MHMashburn@SolanoCounty.com

EXPERIENCE

Claybank Adult Detention Facility
Fairfield, California
362 bed, 126,756 sq. ft., maximum security facility expansion

San Mateo County Forensic Laboratory and Coroner's Office
San Mateo, California
Commissioning services for 29,000 sq. ft. Sheriff's forensic laboratory and Coroner's office. LEED Certified.

San Quentin State Prison, Condemned Inmate Complex
San Quentin, California
1,024 beds

East Contra Costa County Courthouse
Pittsburg, California
New three-story, 71,000 sq. ft. courthouse; 7 court rooms expandable to ten. LEED Silver anticipated.

Maricopa County Jail
Phoenix, Arizona
1,360 maximum security beds; 650,000 sq. ft.; downtown highrise detention facility; central booking for entire county;

Arizona State Prison
Florence, Arizona

Santa Ana Police Administration & Holding Facility
Santa Ana, California
343,000 sq. ft. police station, holding facility, and administrative offices

Los Angeles Police Department Metro Jail
Los Angeles, California
500 bed facility, LEED Silver.

CNMI Adult Correctional Facility
Saipan, CNMI
342 beds; low rise; direct supervision; Includes all security levels and some INS facilities

Johnson County Detention Expansion
Gardner, Kansas
160,000 sq. ft., 554 beds

Coyote Ridge Corrections Center
Connell, Washington
Design Build bridging documents for 564,000 sq. ft., 2,048 bed facility, LEED Silver.

Hawaii Federal Detention Center
Honolulu, Hawaii
750 inmate detention center, 240,000 sq. ft. high rise facility including five levels of inmate housing, two levels administration and support, warehouse, and central plant

LEED Certified ◆ *Award Winning*

** experience prior to joining HOK*

DAVE TROUP, P.E., LEED® BD+C

ICE South Texas Detention and Court Facility
Pearsall, Texas
1,100 bed, detention facility, 4 courtrooms, office space provided for the Correctional Services Corporation, ICE Detention and Removal, Office of Enforcement and Immigration Review, and Public Health Services

ICE Northwest Detention Center
Tacoma, Washington
Design-Build bridging documents for new facility for the US Immigration and Naturalization Service, beds for 500 detainees from minimum to maximum security, support functions include medical, intake courts, administration, kitchen/laundry, and visitation

Iowa State Penitentiary
Fort Madison, Iowa
New men's maximum security prison

Kings County Jail
Hanford, California
335 bed expansion facility with reception, booking area and ancillary space

Pennsylvania State Prison
Graterford, Pennsyl
Peer review of prison project.

Pierce County Justice Center
Tacoma, Washington
1,000 bed detention center; structured parking; direct supervision; includes renovation of existing facility

Snake River Correctional Institution
Ontario, Oregon
3,000 maximum security beds; fast track; GC/CM process; direct supervision; 850,000 sq. ft.

Two Rivers Correctional Institution
Umatilla, Oregon
1,750 beds; direct supervision; close security; GC/CM process

Confidential Correctional Facility Expansion
Southeast United States
Expansion which included dayrooms and additional beds

Confidential New Correctional Facility
Southwest United States
New facility which includes dayrooms and beds

HARJ SIDHU, PE, LEED® AP

Project Role: Electrical Engineer

Harj's experience specifically focuses on emerging building electrical system technologies that emphasize sustainability and energy cost reduction. He has proven ability to manage multiple facilities projects and ensure all deadlines and scope are met within a given budget.

EDUCATION

California State University – Sacramento, *Master of Science, Electrical Engineering – Emphasis Power Engineering, 2006*

University of California – Davis *Bachelor of Science, Electrical Engineering, 2004*

PROFESSIONAL REGISTRATIONS

Professional Engineer: California, Georgia
LEED Accredited Professional

EXPERIENCE

Claybank Adult Detention Facility
Fairfield, California
362 bed, 126,756 sq. ft., maximum security facility expansion

Confidential Correctional Facility Expansion
Southeast United States
Expansion which included dayrooms and additional beds

Confidential New Correctional Facility
Southwest United States
New facility which includes dayrooms and beds

Sacramento Criminal Courthouse
Sacramento, California
New 400,000 square foot criminal courthouse consisting of 35 to 40 courts, judge's chambers and administrative support space. The design of the courthouse will utilize high performance building strategies and is planned to be a Net Zero Energy building and LEED Platinum.

UC Davis Gallagher Hall Graduate School of Management*
Davis, California
Lead electrical engineer for the new GSM, spanning 85,000 sq. ft., LEED GOLD certified building. Project consists of smart classrooms, offices, server rooms. Work included sustainable design

University of San Francisco Center for Science and Innovation*
San Francisco, California
50,000 sq. ft. advanced "wet" teaching laboratories for biology, chemistry, physics and environment science as well as computational teaching labs for computer science and mathematics.

The Commons at Mount Burdell*
Novato, California
64-acre zero net energy redevelopment project. Site to house office space, hotel/meeting center, retail, multi-family residences, child care facilities, senior care facilities, community center and sports/health club, and four parking structures.

2001 Market Street*
San Francisco, California
Lead electrical engineer for a mixed-use residential seven-story, high-rise building, totaling 220,000 sq. ft. Work included coordination and design of electrical systems for residential spaces and commercial space. Designed to obtain LEED Gold.

LEED Certified ◆ *Award Winning*

*experience prior to joining HOK

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.4405

YEARS WITH FIRM
1

EDUCATION
University of Missouri, Bachelor of Science in Mechanical Engineering, 2006

PROFESSIONAL REGISTRATIONS
Registered Engineer: Minnesota

BEN DENKER, PE

Project Role: Plumbing Engineer

For over 6 years, Ben has been a mechanical engineer designing HVAC, plumbing, and fire protection systems. His experience includes multiple renovations and new buildings in the Middle East and in most regions of the United States.

PROFESSIONAL EXPERIENCE

New San Bernardino Courthouse*
San Bernardino, California
Plumbing and fire protection systems design using Revit MEP (2009) for 11-story courthouse from Design Development through 50% Construction Documents.

Confidential Correctional Facility Expansion
Southeast United States
Expansion which includes dayrooms and additional beds

Confidential New Correctional Facility
Southwest United States
New facility which includes dayrooms and beds; Includes innovative and sustainable plumbing systems.

Las Vegas Convention Center*
Las Vegas, Nevada
Renovation and expansion of the Las Vegas Convention Center from Design Documents through 100% Construction Documents.

Qatar Petroleum (QP) Complex*
Doha, Qatar
Plumbing systems design and modeling using Revit MEP (2008) for 28-story mixed-use tower and a 2-story mosque from Schematic Design through 100% Construction Documents.

◆Burj Khalifa*
Dubai, UAE
Fire Protection systems design for the fire protection system on the addition of the Spa Annex. Scope of work was to connect to existing fire main and design a sprinkler layout for the Spa Annex.

New Data Center – Minneapolis/ St. Paul International Airport*
Minneapolis, MN
Mechanical and plumbing systems designed to consolidate the operations of over 100 data rooms on-site at airport. Designed a chilled water system and plumbing system for data room, electrical room, and office areas with high efficiency equipment to reduce the electrical load from the equipment.

LEED Certified ◆ *Award Winning*

** experience prior to joining HOK*

hok.com

HOK
One Bush Street, Suite 200
San Francisco, CA 94104
t: 415.243.0555
f: 415.882.7763

REPLACEMENT CORRECTIONAL FACILITY

SAN MATEO COUNTY
PROFESSIONAL LANDSCAPE ARCHITECTURE SERVICES

Proposal | February 29, 2012

HOK

February 29, 2012

Catherine Chan
Project Manager
HOK, Inc.
One Bush Street, Suite 200
San Francisco, California 94104

San Mateo County Replacement Correctional Facility
Consulting Services for Landscape Planning & Design

Dear Selection Committee:

On behalf of the HOK Planning Group at Hellmuth, Obata + Kassabaum, Inc. (HOK) I am pleased to submit our qualifications for Landscape and Planning Design services for the San Mateo County Replacement Correctional Facility in Redwood City, California. We believe our qualifications express our understanding of the project, regional context and our commitment to bring the best talent and experience forward to partner with HOK, the San Mateo County Sheriff's Office, and the selected General Contractor, as an integrated team.

The HOK Planning Group team has extensive experience working in San Mateo County and Redwood City in particular. From the San Mateo County Government Office Building, completed in 1999; to the Kaiser Permanente Medical Center Replacement Hospital which is currently under construction; to the exploration of potential development sites in downtown Redwood City for a private developer; we have been, and continue to be closely involved with the county and city entities.

Our correctional facility experience is unique in the realm of large diversified landscape, planning and urban design firms, and we are proud of our work throughout the last 20 years, working with the HOK architectural team in creating successful correctional environments. We understand the particular issues of security and operations, and strive to create functional landscapes that are also sustainable and pleasing.

The HOK Planning Group is dedicated to a collaborative team approach and we are accustomed to working on complex projects with specialized teams to ensure that a high quality of expertise in all disciplines can be brought to bear on this project. As the Director of Planning and Landscape Architecture in San Francisco, I have been working to create implementable landscapes, including detention facilities, for more than 20 years. With my colleagues, principal planner Crystal Barriscale, and landscape designer David Amalong, we have a combined experience of more than 70 years creating successful and beautiful places.

We very much look forward to partnering with you as you move forward with this visionary project. Please do not hesitate to call me at 415-356-8663 if you have any questions.

Sincerely,
HOK, Inc.

Katherine Doi, ASLA, LEED AP
Director, Planning and Landscape Architecture

1. Collaborative
Interdisciplinary Design

PROJECT APPROACH

THE HOK PLANNING GROUP

The HOK Planning Group has more than 50 years of diversified experience with over 120 professionals in planning, urban design, and landscape architecture throughout 17 HOK locations worldwide. We help clients shape the environment that connects people to each other and to the world around them. For us, performance and aesthetics are not separate conversations. The best design solutions are as functional and sustainable as they are beautiful.

DESIGN PHILOSOPHY

Our design strategies employ a place-based, integrated systems approach that is committed to creating quality environments with enduring value. Good planning creates an environment that enhances and relates to the world around it; the essence of planning is to provide a connection – to a region, community, culture and natural environment. We collaborate across disciplines to create places that are authentic and integrated with their surroundings, ensuring their long-term economic growth and sustainability. We work closely with clients, stakeholders and diverse project teams to set goals and build consensus, ensuring a successful process from design conception through implementation. HOK approaches each project as an interactive process – this is worth repeating. We believe that connection and collaboration are key from project inception.

Landscape architecture focuses on the spaces between the buildings to harmonize architecture, infrastructure and open space, creating urban experiences that support our social and physical needs. Concerns of sight lines, physical access and egress and careful lighting are essential parts of a well-designed site, balanced by the need for visual beauty and spiritual gratification.

SUSTAINABLE DESIGN

HOK is committed to preserving the environment for future generations through sustainable design. Through all levels of our organization we have the unique opportunity to promote environmentally sensitive design by employing materials, energy and water resources efficiently, minimizing site impacts and addressing the social and health issues that relate to development. At HOK sustainable design is a collaborative effort, combining the expertise of the entire project team. The HOK Planning Group design aesthetic is centered on the synergy found among the interrelationships of the local environment, the watershed, the people, the construction materials, the energy inputs and the waste outputs on site. We investigate sustainable design opportunities in stormwater management, water efficiency, sustainable sites and renewable materials. In addition, through HOK's Product Design Initiative, the HOK Planning Group developed one of the first HOK products, "Freno" an urban rain garden system. HOK is also the expert in understanding the

PROJECT APPROACH

(CONTINUED)

criteria for LEED Certification and can assist clients in applying design measures and building techniques that help achieve sustainability goals. Our team of landscape architects and urban designers/planners are all LEED accredited.

BUILDINGSMART

HOK is at the forefront of adapting new technologies to improve project delivery methods in an industry initiative called BuildingSMART. The effort centers on the use of a Building Information Modeling (BIM), which is the development of the building in a 3D model form from the beginning using new tools like Autodesk's Revit. 3D modeling of all of building elements (including structural, MEP, skin, etc.) not only enhances project visualization, but detects potential design issues prior to construction. This feature alone is changing how buildings are designed and built. Working together, designers and contractors now have an unprecedented level of confidence in details and constructability issues. Among the implications of this advancement is that many expensive and time consuming building elements now built on site can be pre-fabricated off-site saving time and money, while improving quality. It also means easier and earlier development of quantities for earlier and more precise cost estimating. Unlike many outside consultants that take the architects Revit model and convert it to 2D CAD, The HOK Planning Group is at the forefront of landscape architecture firms utilizing the same high BIM standards that are used by our architect partners.

INTEGRATED DESIGN

In an integrated design approach, team members representing all aspects of a project work together collaboratively to develop optimized design approaches that address project goals. This format lends itself to the discovery of design synergies that multiply benefits. Capturing these multiple benefits requires a full team to work together from the project beginning to design the components of the system. The result of such coordination can lower initial costs as well as long-term costs. With an integrated team working closely together, strategies that can affect both the site and the building can be examined early and incorporated into an optimized design.

ASK HOK

The HOK Planning Group is committed to the process of ASK HOK. As described in our architect's proposal, our approach and strategic vision is founded on the confluence of three fundamental elements of project delivery:

- **A**rt… transforming space and experience through the power of aesthetics
- **S**cience… maximizing efficiency and sustainability through the application of technology
- **K**nowledge… driving program innovation through expertise and experience

Each of these elements informs one another throughout the

PROJECT APPROACH

(CONTINUED)

process in achieving highly successful results for our clients. We believe that each project should result in a specific and unique solution, the fundamental value of which is evidence-based design and it's essential relationship to aesthetics and science. Our aim is to collaborate with our clients, consultants and building partners to define and implement a project process designed to deliver the most appropriate, elegant and effective solution.

- We work to understand your issue, drivers and goals
- We work to integrate environmentally sensitive concepts into planning and implementation strategies
- We work to get architecture out of the way of change

Partnership and Collaboration
ASK HOK is rooted in the idea that the best projects come from a true partnership among all members of the project team in creating a comprehensive design vision. HOK advocates an integrated approach that involves the entire spectrum of participants from clients, user groups, permitting agencies, engineers, utility providers, builders, specialty consultants and architects. This process is essential in creating holistic designs that address the full range of project issues. The key to HOK's success is the ability of its project teams to work collaboratively toward achieving the project's design goals without sacrificing program features in favor of lower initial construction costs. We believe having the right people from all disciplines at the table from the beginning creates the most thoughtful and innovative facilities inspired by a common vision.

ASK HOK – An Integrated Process
Employing the principals of ASK HOK, we have successfully delivered large and complex public projects in California and around the world. In the process we have learned that how and when information is collected, processed, integrated, shared and communicated is absolutely vital to project quality and success. We intend to employ an inclusive, consensus based and highly interactive approach. It will include numerous workshops, interactive web-sites, one-on-one discussions, surveys, case studies and presentations; all will be aimed at bringing stakeholders and key decision makers into agreement on the parameters, goals, budget, and planning principles that will guide project evolution and delivery.

The HOK Planning Group blends the elements of art and science, backed by our depth of knowledge through experience, to create memorable, cost-effective, constructible and maintainable landscapes.

INSURANCE REQUIREMENTS

HOK can fulfill the insurance requirements set forth in the HOK sub-consultants insurance guidelines spreadsheet.

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	Project Information										Location			Delivery			Teaming Experience				Comments *(include any additional key info you would like us to know about this project - please be brief!)*
	Year of Completion	**Construction Cost** *(in $Millions)*	**Gross Area** *(in square feet)*	**No. of Beds (Design Capacity)**	**Direct Supervision**	**No. of Building(s)**	**No. of Storey(s)**	**LEED Certification** *(None, Certified, Silver, Gold or Platinum)*	**BIM Usage** *(answer yes if a design model was created for coordination and deliverable)*	**New Facility - Full Service Design** *(not part of TI project)*	**Redwood City (RWC)**	**San Mateo County (SMC)** *(if not in RWC)*	**State of CA** *(if not in RWC/SMC)*	**CM at Risk**	**Design-Build**	**Direct Relevant Experience -** *Have one or more of your proposed key personnel worked on this project?*	**HOK**	**Hensel Phelps**	**McCarthy**	**Sundt-Layton**	
Claybank Adult Detention Facility, CA	2014	$65M	126,756	362	Yes	1	1 + Mezz	Silver Expected	Yes	Yes			Yes	No	No	Yes	Yes				
CDCR Correctional Healthcare Facilities, CA	2014	$252M	6,500,000	1,700	yes	33	1	Silver Expected	Yes	Yes			Yes	Yes		Yes	Yes	Yes			
San Quentin Central Health Services Building	2010	$108.2M	131,993	52	yes	1	5	Gold	Yes	Yes			Yes	Yes		Yes	Yes	Yes			
Supplemental Projects																					
SRI Menlo Park Master Plan, CA	Ongoing	Confidental	1,055,000	N/A	N/A	Numerous	Various	None	Yes	Yes		Yes				Yes	Yes				
Kaiser Redwood City, CA	2013	$220M	272,000	149	N/A	1	7	None	Yes	Yes	Yes					Yes	Yes				
Bay Meadows Mixed Use Development, CA	2009	$250M	83.5 acres	N/A	N/A	Numerous	Various	Varies	Yes	Yes		Yes				Yes	Yes				
San Mateo County Forensics Lab, CA	2003	$12.4M	29,000	N/A	N/A	1	1	Certified	No	Yes	Yes					Yes	Yes				
San Mateo County Government Center, CA	1999	$14M	128,000	N.A	N/A	1	5	None	None	Yes	Yes					Yes	Yes				
Visa International Headquarters, CA	1996	Confidental	982,173	N/A	N/A	4	4	None	No	Yes		Yes				Yes	Yes				
Richard E. Arnason Justice Center	2010	$41.6M	71,600	N/A	N/A	1	3	None	Yes	Yes			Yes			Yes	Yes			Yes	

CDCR

NEW CORRECTIONAL HEALTHCARE FACILITIES PHASES I AND II

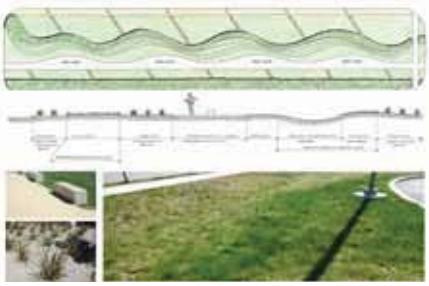
Stockton, California

SIZE
144 Acres

SERVICES
Feasibility Study, Master Plan,
Design,
Landscape

COMPLETION
2014

COST
$129 million (Phase I)
$383 million (Phase II)



Phase I for the Correctional Health Care Facility has an estimated cost of $129 million, the first phase includes preparation of the 144-acre site where a former California Youth Authority facility is being demolished. Items include design and construction of site wide grading and utilities, road re-alignment, central utility plant (OSHPD), perimeter guard towers, perimeter road and fence which includes a lethal electric fence, material services center, communications and lockshop (OSHPD), armory and staff/public parking.

Phase II consists of a master plan, study and detailed conceptual design for the site which encompasses 33 buildings, including special needs inmate housing, common areas, maintenance building and worker housing, over 1,700 beds on 45 acres. Open courtyards for patients to go to the Medical Mall from the Housing blocks, a developed Medical Mall for circulating and short-term waiting, and an entry courtyard through which visitors pass to designated visiting zones, are all part of the open space system.

Landscape design in the correctional environment must consider low profile plant materials and no trees to aid direct supervison; low maintenance plant materials, sustainable paving materials and furniture with simple profiles to support other security concerns. Landscape interest relies on patterns and color of foliage and mulch. In the semi-public areas, landscape swales and non-walkable plant materials are used to create landscape barriers to direct the flow of pedestrian traffic.

FRANCHISE TAX BOARD

Sacramento, California

LEED-NC SILVER

SIZE
1,000,000 sq. ft.
80 acres

SERVICES
Master Planning, Landscape Architecture, Architectural Design, Sustainable Consulting

COMPLETION
2005

The California Department of General Services enlisted HOK and Lionakis Beaumont Design Group (LBDG) to design the new addition to the Franchise Tax Board's (FTB) existing campus. The 1,000,000 sq. ft. expansion consists of a one-story 55,000 sq. ft. Town Center building that houses the main dining room, child daycare, training facility, auditorium and credit union; a 3-story 375,000 sq. ft. and a 4-story 397,000 sq. ft. building that both include administrative offices and cafes; a 50,000 sq. ft. warehouse with an additional training room; a 20,000 sq. ft. data center; a 20,000 sq. ft. central plant and 4,500 additional surface parking stalls.

With multiple locations throughout Sacramento including two existing buildings on the project's 80 acre site, the FTB recognized that consolidating employees and sharing support services at one site would provide considerable savings. More important to the FTB, they wanted to unite their employees through communication, interaction and a shared culture – similar to a corporate campus. To promote this idea HOK organized the main pedestrian circulation for the campus around a secure garden courtyard that connects all the new buildings with the existing buildings. Most of the café's, break rooms, communicating stairs and conference rooms are along this pedestrian street.

ALFRED A. ARRAJ US DISTRICT COURTHOUSE ANNEX

GENERAL SERVICES ADMINISTRATION

Denver, Colorado

SIZE
318,850 sq. ft.

SERVICES
Architectural Design, Court Planning, Master Planning, Lighting Design

COMPLETION
2002

COST
$83 million

The ten-story courthouse contains 10 District, four Magistrate and one Special Proceedings courtrooms, the Clerk of the Court and the U.S. Marshal Service, with potential to expand on site for additional courtroom space. It is connected by tunnel to the existing courthouse across the street, and is part of a four-block government district.

The courthouse meets the latest security and functional requirements of the courts, and presents an open and inviting image while demonstrating GSA's commitment to environmental stewardship creating a showcase for sustainable design.

The building is designed to remain effective for 100-years. Raised access floor systems provide wire management flexibility and air distribution. Materials were selected based on environmental and occupant impact, such as embodied energy, indoor air quality, and resource depletion. Low impact landscaping minimizes water use and reduces urban heat island effect.

BAY MEADOWS

MIXED-USE DEVELOPMENT PHASE II

San Mateo, California

SIZE
12.6 acres - commercial blocks
5 hectares
750,000 sq. ft. office development - 5 office buildings, 1 parking garage

SERVICES
Landscape Architecture, Architecture, Urban Design

COMPLETION
2009

COST
$250 million

HOK is working with developer Wilson Meany Sullivan to create the mixed-use commercial heart for the new 83.5 acre part of the San Mateo Rail Corridor Transit Oriented Development Plan. By virtue of providing a compact urban commercial development within a new five city block area, the intent is to initiate a pedestrian friendly environment with an active ground plane that connects train station access, public plazas, courtyards, and streetscapes.

The 5 building 750,000-square-foot office development scheme addresses the need for flexible office floor plate design, retail, and the necessary parking demand as well as satisfying the Caltrain Joint Powers Board requirement for 500 commuter parking spaces. All buildings are set to be LEED
Silver or higher. The Bay Meadows program includes 1.25 million square feet of office use, 1,250 multi-family residential units, 150,000 square feet of retail, and 15 square acres of public parks and open space. The Delaware Street neighborhood of the proposed Bay Meadows Village is a transit-oriented development planned for the current site of the Bay Meadows racetrack in San Mateo, California, adjacent to the Caltrain rail station. The racetrack is scheduled to be closed and demolished in 2008, allowing for a phased development of the site.

NORTEL SANTA CLARA

Santa Clara, California

SIZE
630,000 sq. ft.
14 acres

SERVICES
Architecture, Interiors, Planning, Landscape Architecture

COMPLETION
2002

COST
$135 million

Following a successful track record of significant individual projects, HOK and Nortel entered into a global agreement for facility consulting and design services in November of 1994. Implementation took place at numerous Nortel locations around the world, responding to the company's ongoing needs and taking full advantage of HOK's global reach. Some of these projects include the Brampton Centre, the Carling Campus, the Broadbands Network Campus in Montreal and the Santa Clara Campus.

HOK planned and designed this 630,000 square foot campus. The new construction consisted of two office buildings and two structured parking facilities on a 14 acre site.

CALIFORNIA STATE TEACHER'S RETIREMENT SYSTEM

West Sacramento, California

LEED-NC GOLD

SIZE
400,000 sq. ft. (Phase 1)
5.4 acres (Phase 1)

COMPLETION
2009

SERVICES
Master Planning, Landscape Architecture, Architectural Design, MEP Engineering, Interior Design, Workplace Consulting, Architectural Graphics, Display Environments; Sustainable Design

HOK's planning study for the CalSTRS explored alternative master plan options for an 18-acre site along the Sacramento River. The site identifies the prime locations for several major building components, including a 600-room hotel, parking for 1,400 cars, 620,000-square-feet of office space in two phases, a 100-unit residential tower, and approximately 65,000 square feet of retail / commercial space.

The relationship of such elements as parking, vehicular, and pedestrian circulation, open space and view corridors to the Sacramento River were studied to achieve the highest and best use of the site. Adjacent land parcels were also studied to identify those parcels critical to future expansion of the project.

Following the master plan phase, HOK proceeded to design the first phase tower, which consists of 400,000 square feet of office space over a podium parking garage. The front door of the building and outdoor dining are oriented towards the riverfront, located at the top of the levee embankment, while two levels of parking remain unseen below.

HOK created a significant landscaped view corridor adjacent to the "promenade", the primary pedestrian access to the building. The view corridor afforded an opportunity for CalSTRS to meet the city's goal of providing a gateway for public access to the park.

FRENO™ URBAN RAIN GARDEN SYSTEM

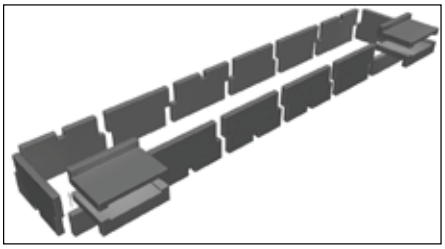
St. Louis, Missouri

SERVICES
Landscape Architecture, Architecture

COMPLETION
October 2010

COST
N/A

AWARD
2010 St. Louis Cityscape Award



Freno is an innovative segmental wall and curbing system designed to easily incorporate rain gardens in urban settings, helping to reduce run-off, improve water quality, and enhance streetscapes. It was developed as an alternative to cast-in-place construction methods, providing a higher level of quality and durability at a lower cost, in less time.

Low Impact Development (LID) strategies are gaining popularity with developers and agencies seeking new ways to deal with the large volume of storm water run-off generated from impervious surfaces associated with public and private developments. Traditional water treatment methods are expensive and energy-intensive, prompting many communities to turn to rain gardens as a decidedly low-tech, but highly effective approach to storm water detention and treatment. Rain gardens improve water quality by reducing storm water flow rate, volume, temperature and pollutants. In recent years, rain gardens have been successfully implemented in urban streetscapes as a means of addressing storm water runoff in a manner that is highly efficient, easily maintainable and aesthetically enhancing. However, these installations typically consist of cast-in-place concrete enclosures which require extensive over-dig, formwork and labor, and are subject to variable levels of finish quality. Freno™ was conceived as a precast concrete "kits of parts" system that would provide high levels of finish, durability and flexibility at a cost lower than that of comparable cast-in-place systems. This modular system is comprised of three basic shapes that can be arranged in a wide array of configurations. Unlike a cast-in-place basin that can take weeks to complete, the Freno™ System can be installed quickly, minimizing excavation and eliminating formwork and the typical concerns of how weather and temperature can impact the quality of the installation.

To test the new product, a pilot project was installed in the summer of 2010 in downtown St. Louis. With the cooperation of local agencies and private contractors, the installation exceeded expectations in terms of ease of constructability, moving from demolition to finished planting in just two and a half days.

OFFICE LOCATION
San Francisco

PHONE NUMBER
415.356.8663

YEARS WITH FIRM
23

EDUCATION
University of Michigan
Ann Arbor, Michigan
Master of Landscape Architecture

Yale University
New Haven, Connecticut
Bachelor of Arts

PROFESSIONAL REGISTRATIONS
Landscape Architect: California
Nevada
LEED Accredited Professional

REFERENCES
Mr. Kanon Artiche
Solano County Architect
Claybank Adult Detention Facility
707.784.7908
kartiche@solanocounty.com

Mr. Mark Srebnik
Project Director
Kaiser Redwood City
650.299.4919
mark.r.srebnik@kp.org

Mr. Chuck Noll
Administrator & Chief Clerk
Bay Meadows
415.905.5390
cnoll@wmspartners.com

KATHERINE DOI, ASLA, LEED® AP

Project Role: Landscape Architect

Kathy Doi has more than 20 years of experience in a variety of design and management positions in the field of landscape architecture. Her career has focused upon project management and design implementation, assuring that an approved design concept is taken through the construction process without compromising design integrity. Her primary project experience includes commercial, corporate, and public projects. Kathy is the director of service delivery for the HOK planning group in all locations, and is also responsible for managing operations of the HOK planning group in San Francisco.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

◆ San Mateo County Sheriff's Forensic Lab & Coroner's Office
Redwood City, California
30,000 sq. ft., forensic lab, coroner's office

Claybank Adult Detention Facility
Fairfield, California
362 bed, 122,307 sq. ft., $65 million maximum security facility expansion.

◆ Richard E. Arnason Justice Center
Pittsburg, California
4-acre site, three-story courthouse, entry plaza and green roof; LEED Silver

◆ San Quentin State Prison Central Health Services Building
San Quentin, California
4.8 acre site; drought tolerant landscape; LEED Gold

San Mateo County Government Center Office Building
Redwood City, California
138,000 sq. ft. of building

Kaiser Permanente Replacement Hospital
Redwood City, California
15-acre campus with new hospital, CUP, and parking

Excite@Home Corporate Campus
Redwood City, California
11-acre facility; surface and underground parking; outdoor assembly area and dining terrace; athletic facilities; public streetscape improvements

Foothills Communities Law and Justice Center
San Bernardino, California
13-acre site supporting civic administration complex. Entry plaza, parking and streetscape.

Bay Meadows Mixed Use Development
San Mateo, California
1.25 million sq. ft. of mixed use development. HOK is working to design the 5-block commercial heart for this 83.5 acre part of the San Mateo Rail Corridor TOD Plan.

◆ Franchise Tax Board Headquarters - Butterfield Way
Sacramento, California
1 million sq. ft. of office on 42 acres; transit plaza; childcare; fitness; parking for 4500 cars.

Visa USA/Visa International
Foster City,California
17-acre campus; 4 buildings, public park and plazas.

LEED Certified ◆ *Award Winning*

*experience prior to joining HOK

YEARS WITH FIRM
7

PHONE NUMBER
415.356.8528

EDUCATION
Columbia University
Masters of Science in Architecture & Urban Design, 1984

New York Institute of Technology
Bachelor of Architecture, Magna Cum Laude, 1981

PROFESSIONAL REGISTRATIONS
Architect, State of California, Nevada, New Jersey, New York
National Council of Architectural Registration Board
American Institute of Certified Planners
LEED Accredited Professional

REFERENCES
Mr. Mark Srebnik
Project Director
Kaiser Redwood City
650.299.4919
mark.r.srebnik@kp.org

Mr. Chuck Noll
Administrator & Chief Clerk
Bay Meadows
415.905.5390
cnoll@wmspartners.com

Mr. Jeff Schwob
Community Development Director
Fremont Downtown Community Plan
510.494.4527
jschwob@fremont.gov

CRYSTAL BARRISCALE, AIA, AICP, LEED AP

Project Role: Planning Principal

Crystal Barriscale directs the HOK Planning Group in San Francisco. With over 27 years experience, she works closely with both private institutions and public agencies in a broad range of planning, urban design and architectural projects. As both an architect and planner, she has led award-winning projects, from inception through to implementation. Her work includes corporate, research and university campus planning, transit-oriented developments, multi-modal terminal improvements, as well as urban redevelopment plans.

EXPERIENCE

Fremont Downtown Community Plan and Design Guidelines
Fremont, California
HOK is providing urban design and planning services for the City of Fremont's Downtown District, located in the center of town covering approximately 110 acres.

Courthouse Square Redevelopment
Redwood City, California
Located in the heart of Redwood City's Downtown, a 210,000 gsf commercial redevelopment with 630 structured parking stalls, a new Chase Bank facility and landscaped public plazas.

Foster City Redevelopment Area Plan
Foster City, California
Working with three major land owners in the Pilgrim/Triton area. HOK's scope of work included development of a coordinated master plan proposal to the City of Foster City for approval.

Kaiser Medical Center Master Plan
Redwood City, California
Master plan and design for a redeveloped Redwood City Medical Campus. Scope includes: master planning, landscape design, health care programming and architectural services.

LEED Certified
**experience prior to joining HOK*

Bay Meadows Transit Oriented Development Phase II Design + Implementation
San Mateo, California
750,000 SF urban design and landscape architecture of 5 new city blocks of retail and office development to be integrated with the adjacent CalTrain Hillsdale station. Included detailed design of a proposed relocated and expanded station and commuter parking facilities. Plans were unanimously approved by the city.

Transbay Transit Center Site + Streetscape Design Guidelines
San Francisco, California
Created Site Development Standards, Streetscape and Design Guidelines in planning efforts for the new and expanded downtown Transbay Terminal including, Cal Train commuter rail service, a bus terminal, and the new California High Speed Rail service.

DAVID A. AMALONG, RLA, LEED AP

Project Role: Landscape Designer

David Amalong is the Director of Planning, Landscape Architecture and Urban Design for HOK's Denver practice. He is a registered Landscape Architect with more than 24 years of experience that include a broad range of domestic and international projects. His capabilities range from large-scale master planning to detailed design and implementation. David's work celebrates the human spirit through social equity, quality design and ecological intelligence.

YEARS WITH FIRM
18

PHONE NUMBER
720.889.3411

EDUCATION
The Pennsylvania State University, College of Arts & Architecture
Bachelor of Science in Landscape Architecture, 1988

PROFESSIONAL REGISTRATIONS
Landscape Architect: Missouri & Colorado
LEED Accredited Professional

AWARDS
Merit Award, Colorado Chapter, Sunnen Station, *ASLA, 2008*

Merit Award, Colorado Chapter, Shanghai Pudong Bank, *ASLA, 2004*

REFERENCES
Mr. Brian Levitt
President/CEO
Glendale Riverwalk
303.809.8887
brian@integralrealestate.com

Mr. Bill Covell
Manager, Special Projects
ConocoPhillips Colorado Campus
918.661.7488
william.r.covell@conocophillips.com

Tom Gougeon
President, Gates Family Foundation
Belmar Square and Belmar Streetscape
303.722.1881
tgougeon@gatesfamilyfoundation.org

EXPERIENCE

◆Alfred A. Arraj U.S. District Courthouse
Denver, Colorado
318,000 sq. ft. with 15 courtrooms on a 2.5 acre site.

Adams County Justice Center
Brighton, Colorado
512 bed expansion on 40 acres

◆Robert A. Christenson Justice Center
Castle Rock, Colorado
8 courtrooms, 150 beds

San Francisco Public Safety Building
San Francisco, California
Six-story tower housing police headquarters

NOAA PRC Main Facility
Honolulu, Hawaii
350,000 sq. ft. new administrative and lab facility within an historic shell on an historic 29 acre site.

Glendale Riverwalk
Glendale, Colorado
22-acre mixed use development on Cherry Creek, including 1 million SF of entertainment, retail, concert and open space.

ConocoPhillips Colorado Campus
Louisville, Colorado
2.5 million sq. ft. research & learning center campus on 435 acres.

◆ Federal Reserve Bank of Minneapolis
Minneapolis, Minnesota
Headquarters and operations center, 777,000 sq. ft. in a 7-story tower on a 9-acre riverfront site.

Sun Microsystems Colorado Campus
Broomfield, Colorado
Regional corporate offices, 562,000 sq. ft. on 74-acre campus; HOK provided masterplanning and landscape architecture.

Belmar Square & Belmar Streetscape Enhancements*
Lakewood, Colorado
2-acre park and streetscape in a new urban neighborhood west of downtown Denver.

Kaiser Permenate Hospital
Redwood City, California
149 bed replacement hospital, CUP, and parking on a 15-acre campus.

Bay Meadows Mixed Use Development
San Mateo, California
1.25 million sq. ft. of mixed-use development. HOK is working to design the 5 block commercial heart for this 83.5-acre site within the San Mateo Rail Corridor TOD Plan.

LEED Certified ◆ *Award Winning*

** experience prior to joining HOK*

hok.com

HOK
One Bush Street, Suite 200
San Francisco, CA 94104
t: 415.243.0555
f: 415.882.7763

SAN MATEO COUNTY REPLACEMENT CORRECTIONAL FACILITY

STATEMENT OF QUALIFICATIONS

Submitted by:

Telamon Engineering Consultants Inc

February 29, 2012

TELAMON
ENGINEERING CONSULTANTS, INC.

PROJECT APPROACH

SAN MATEO COUNTY REPLACEMENT CORRECTIONAL FACILITY PROJECT APPROACH ON COLLABORATIVE INTERDISCIPLINARY DESIGN CIVIL ENGINEERING

The TECI team has extensive and successful working experience/relationship with our clients, interdisciplinary design consultants, public agencies and all stakeholders on similar projects. Besides our strong technical knowledge, TECI approach has always emphasize on team spirit, being responsive and proactive in communication. Our success has been our ability to identify potential issues that the project might encounter and proactively working with the clients, design team and all stakeholders to provide "win-win" solutions to resolve issues effectively and efficiently.

Project Management Role and Objectives

TECI Project Manager's role is to successfully deliver engineering services to our client meeting or exceeding our client's expectation, on time and within budget. To accomplish this, our project manager has the following objectives:

- Develop high-quality, effective and efficient design solutions.
- Accomplish work within the design schedule to avoid delay.
- Control budget and avoid design cost overruns.
- Control construction costs by Value Engineering and Constructability Review.
- Avoid costly change orders during construction by producing quality construction documents that have been well reviewed.

TECI Project Manager takes the following specific actions to achieve the above objectives:

- Listen to Client early and throughout the planning / scoping phases. Reach complete understanding about the needs of the Client.
- Develop clear scope, fee, schedule and deliverables. Identify any scope gap or overlap among Interdisciplinary design team members.
- In-house kick off meeting to discuss Project Work Plan.
- Project Work Plan shall includes the project's key contacts, scope of work and budget breakdown, resource loaded schedule, description of milestone deliverables, document control procedures, and contract administration procedures.
- Follow the in-house QA/QC plan to ensure that quality assurance is adopted and maintained as the project progresses in accordance with guidelines set out by TECI.
- Develop and implement specific project Design Criteria that describe the overall project objectives, provide detailed analysis design guidance, and identify codes and standards. The criteria will be in accordance with the directives issued by the Client, other team members and public agencies.
- Produce complete and clear construction contract documents.
- Continue with Scope, Fee, Schedule monitoring and updates.
- Develop and maintain an in-house Design Issues Action Log and Risk Assessment to provide early identification and mitigation of issues that potentially challenge the design team's ability to meet expectations.
- Implement a peer review program to include review of design criteria, reports, technical memorandums, investigations and PS&E at various stages of completion.
- Provide constructability review to avoid costly delay.
- Review construction cost estimates and schedule at key milestones.
- Implement a design change control procedure to identify, justify, and quantify any changes to the design that have an impact on construction cost, schedule or to stakeholders.
- Implement a value engineering program.
- Communicate effectively and frequently with the design team, the Client, and other stakeholders throughout the project.

Overall Approach to Change

During design, changes can be triggered by client's modified scope or unknown condition. When a change by the client has been identified, PM will meet with Client to clearly understand the nature of the change and what scope and schedule impact it may have to the overall task. PM will coordinate and meet with design team to understand the impact of the change to the current design scope, schedule and fee. Schedule and milestones will be reviewed to identify recovery plan and critical path. If the change is not on the critical path, PM will direct design team to isolate changed area and proceed in other areas of the project in order to avoid delay to the project. If the change is on the critical path, PM will direct design team to stop work until further direction is given to avoid wasting Client's budget.

PM will review and prepare scope, fee and schedule proposal for submittal to the Prime Consultant/Client. Once we received the final acceptance and approval of the revised contract modification, PM will review with design team to proceed with the revision and review the schedule recovery plan and critical path.

Design Team Coordination

Upon notification of NTP, TECI will attend a project kick off meeting to introduce team members from each design discipline, to confirm and understanding project scope and schedule. During each phase of the design, TECI will be proactive in coordinating background and design information with each consultant. We will be clear on our expectation from each discipline and what is being expected from TECI in order for the project to meet delivery schedule.

TECI will coordinate with the following interdisciplinary design team member on the following areas:

- Architect and Landscape Architect:
  - Building and site layout concept including ADA accessibility requirements
  - Parking Layout and Roadway Access Study
  - Codes and Regulations related to site layout and design
  - Background coordination
  - Grading and drainage concept
  - LEED requirements
  - Bio-swale requirements and layout for stormwater runoff treatment
  - Irrigation System coordination

- Geotechnical and Structural Engineer:
  - Existing Conditions: soil type, groundwater elevation, corrosivity, percolation rate
  - Design Recommendations: settlements; building foundation design; pavements design; earthwork, slope and retaining wall criteria.

- MEP and Utility Agencies:
  - Building utility sizes, points of connections at 5' outside of building.
  - Existing, proposed and final buildout load calculation.
  - TECI shall coordinate with Utility Agencies on available infrastructure utility sizes, points of connections from off-site to on-site.
  - TECI shall coordinate with MEP and Architect for Central Plant location, if any.

- Public Agencies and Private Utility Agencies:
  To understand the project and provide best service to our client, during our proposal phase, TECI normally perform our due diligence that is equivalent to a 10% design development to identify existing off-site condition and specific local design requirements.
  - TECI has identified and established contact with the Redwood City's engineers to understand design requirements and obtained the Block Map from the City, identified existing City owed utilities surrounding the project site.

- TECI has compiled the agencies contact list for PG&E, Comcast, AT&T Astound, etc. in order to facilitate team to obtain and identify dry utilities in the vicinity of the project site.
- Upon notification of the NTP, TECI will continue working with the City engineers and the private utility agencies to discuss project specific design requirements and criteria, confirm existing utilities capacity.
- TECI will work closely with the City, and set up coordination meeting as necessary, to obtain approval on the proposed utility design and tie-in locations, storm water treatments methods.
- TECI will coordinate with the City on off-site improvements of Maple Street Bridge widening, and realignment of Blomquist Street.

❖ Other Agencies Coordination:
TECI is familiar with working in project environments that involves the following agencies:
- Regional Water Quality Control Board
- BCDC
- Corp of Engineers

Specific Understanding of the Development of a Correctional Facility Project

The following sections are intended to demonstrate TECI's familiarity and in-depth understanding of the needs of the design and construction of a correctional facility and site specific concerns. This knowledge will translate into a streamlined approach and smooth completion of tasks for the benefit of the client.

1. Off-site improvements of Maple Street Bridge widening and realignment of Blomquist Street. Schedule and related cost for these improvements is under a third party control. This is identified as a risk factor for the project.
2. Need to identify with the Client if the proposed project qualifies as an Essential Facility, which may require redundancies for all or some utilities, such as the water system, power and sewer.
3. Project is located within Bay Mud. Special attention will be paid on earthwork, grading and settlement.
4. Sanitary Sewer: City of Redwood City will require the use of a SS grinder to minimize the disposal of large obstruction that clogged up the Sanitary Sewer System. TECI recommends that a fish hook system inside the correctional facility to be used in conjunction with the Muffin Monster Sanitary Sewer grinder. In some county, the SS grinder is not acceptable due to their ability to grind up material that is not bio-degradable, such as plastic. City of Redwood City also requires the project team to provide monitoring of the existing public sewer system during the dry and wet season to determine the capacity of the existing system.
5. Storm Drainage System and Storm Water Quality Management: City of Redwood City requires storm water quality control and BMP's design following the San Mateo County C.3 Stormwater Technical Guidance. TECI has confirmed that the project site is not in the area subject to Hydromodification Management requirements. The project site is not within BCDC jurisdiction. The project will follow General Permit requirements for stormwater quality control during construction.
6. Security of staff's parking. Physical and visual separation from public parking.
7. Provide oil separator for the kitchen facility if it is classified as a full cooking kitchen.
8. Identify location for Area of Refuge that is safe and secure.
9. Perimeter Security: Delivery, Sally Port Drop off, exercise area, locking device for utility structures within secured areas.

PROJECT MATRIX

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	**Project Information**										**Location**			**Delivery**		**Teaming Experience**					**Comments** *(include any additional key info you would like us to know about this project - please be brief!)*
	Year of Completion	**Construction Cost** *(in $Millions)*	**Gross Area** *(in square feet)*	**No. of Beds (Design Capacity)**	**Direct Supervision**	**No. of Building(s)**	**No. of Storey(s)**	**LEED Certification** *(None, Certified, Silver, Gold or Platinum)*	**BIM Usage** *(answer yes if a design model was created for coordination and deliverable)*	**New Facility - Full Service Design** *(not part of TI project)*	**Redwood City (RWC)**	**San Mateo County (SMC)** *(if not in RWC)*	**State of CA** *(if not in RWC/SMC)*	**CM at Risk**	**Design-Build**	**Direct Relevant Experience -** *Have one or more of your proposed key personnel worked on this project?*	**HOK**	**Hensel Phelps**	**McCarthy**	**Sundt-Layton**	
San Bruno Jail	2006	$150M	270,000	768	Yes	2	2			Yes		Yes	Yes		Yes	Yes					
Alameda County Juvenile Justice Center	2007	$176 M	379,000	360	Yes	3	3	Gold	Yes	Yes			Yes		Yes	Yes	Yes	Yes			
Contra Costa County Juvenile Hall	2005	$30 M	120,000	240	Yes	1	2			Yes			Yes			Yes					
Claybank Detention Facility	2014	$89 M	495,200	362	Yes	2	2	Silver	Yes	Yes			Yes			Yes	Yes				
San Francisco Youth Guidance Center	2006	$47 M	82,500	150	No	1	2			Yes			Yes			Yes					

PERSONNEL RESUME

Mennor Chan, PE, PLS, LEED AP BD+C

Principal / Project Manager

Qualifications

Ms. Mennor Chan, principal and project manager, has over 31 years of civil engineering and project management experience. She has been a hands-on principal for TECI for the last 18 years. She stresses the importance of team coordination and understands how to accommodate different clients' needs.

Years of Experience
31 Years

Education
B.S. Civil Engineering, San Jose State University, Dec 1980

Professional Affiliations
Asian American Architects & Engineers Former Board of Director

Ho Chi Ming Sister City Committee – Former Board of Director

Credentials/Licenses
Professional Licensed Civil Engineer, CA #C043842, 1989

Professional Land Surveyor, CA #L8406, 2008

LEED Accredited Professional Building Design + Construction, ID No. 35498

Qualified SWPPP Developer / Qualified SWPPP Practitioner (QSD/QSP), Certificate No. 20020

Her extensive experience ranges from Master Planning study, Capital Improvements report & recommendations, to preparation of Construction Documents. Her project experience includes design/relocation of major infrastructure utilities (including wet and joint trench utilities) for many public agencies and private developers; local city street improvements to highway interchange design for Caltrans; residential site development ranging from single lot to 600-unit subdivision; public site developments including schools (K-12 thru higher education campus), hospitals, transit and jail facilities; commercial and mix-use projects. She has also worked on projects with challenging site condition such as: Bay Mud, waterfront and hillside condition, wetland and contaminated land.

Her public sector experience includes working with all levels of government and regulatory agencies in addition to coordinating public projects with private developers and design professionals. She is sensitive with the latest environmental requirements, such as LEED, NPDES, SWPPP, CSO Reduction, etc in association with designing the projects.

Relevant Experience

San Bruno Jail, San Bruno, CA

This project involves the construction of a new jail facility adjacent to and ultimately replacing the adjacent facility. Major site and infrastructure improvements were required to modernize the entire jail complex.

Architect:	KMD Architects, Jim Mueller (415) 398-5191
Contractor:	AMEC, George Speights (currently with McCarthy) gspeights@mccarthy.com; (415) 364-1327
Owner:	City and County of San Francisco, Jim Chang (Project Manager) (415) 364-1327

MENNOR CHAN

Alameda County Juvenile Justice Center, San Leandro, CA
It is the design and construction of a multi-award winning 379,000 sf building which houses a detention facility, courthouse, support building and parking lot. It is located on 18 acres of steep difficult terrain and seismically challenging site next to the existing facility.

Architect: HOK, Catherine Chan, Project Manager
Catherine.chan@hok.com; (415) 356-8535
Contractor: Hensel Phelps, Owen Olson
(408) 452-1800
Owner: GSA-Alameda, Ron Alameida (former Project Manager)
Ronald.alameida@sfgov.org; (415) 695-3861

Claybank Adult Detention Facility, Fairfield, CA
It is the design and construction of a new 362-bed adult detention facility for housing of individuals who are post-arraignment and pre-sentenced. Estimated completion is 2014.

Architect: HOK, Catherine Chan, Project Manager
Catherine.chan@hok.com; (415) 356-8535
Owner: Solano County, Kanon R Artiche (Solano County Architect)
krartiche@solanocounty.com; (707) 784-7908

Public Safety Building, San Francisco, CA
The Public Safety Building (PSB) project will provide a replacement facility for the SFPD Headquarters and the Southern District Police Station, currently located at 850 Bryant (the Hall of Justice). The project has a total area of 300,000sf, this includes Police Headquarters, Police Station, Fire Station, a Shared functional area and a Parking Structure. It is anticipated to achieve a LEED Gold certification.

Architect: HOK / Cavagnero Architects, Paul Woolford
(415) 243-0555
Owner: SFPUC, Charles Higueras (Project Manager)
Charles.higueras@sfdpw.org, (415) 557-4646

Doug Zuuring, PE, LEED AP BD+C

Civil Engineer

Qualifications

Mr. Doug Zuuring has over 10 years of civil engineering and construction experience. With his knowledge of construction he provides TECI constructability expertise in design and construction methodologies. As a highly motivated managerial professional he resolves project or client issues and ensures that design elements are fully coordinated.

Years of Experience
10 Years

Education
B.S. Civil Engineering, Montana State University, May 2001

Credentials/Licenses
Professional Licensed Engineer -Civil, CA #C76818, 2010

LEED Accredited Professional Building Design + Construction, ID No. 10028319

Qualified SWPPP Developer / Qualified SWPPP Practitioner (QSD/QSP), Certificate No. 21445

He has worked on a wide variety of public works, commercial, institutional and residential site development projects. His experience includes hydrologic and hydraulic design; grading and drainage of parking lots and arterial roadways; major utility infrastructure design and relocation for public agencies; right-of-way design and improvements; utility design and coordination (including wet and dry utilities) and project storm water management systems. He works closely with private developers, consultants and public agencies and develops a strong working relationship with other team members. With a passion for the environment he always tries to bring sustainable practices to projects whenever possible. His activities also include surveying job sites after completion to verify that the site was built according to plan.

Mr. Zuuring poses excellent time/task management skills and prioritization due to numerous assignments and responsibilities. He excels in new challenges and has an exceptional problem-solving ability.

Relevant Experience

Alameda County Juvenile Justice Center, San Leandro, CA

It is the design and construction of a multi-award winning 379,000 sf building which houses a detention facility, courthouse, support building and parking lot. It is located on 18 acres of steep difficult terrain and seismically challenging site next to the existing facility.

Architect:	HOK, Catherine Chan, Project Manager Catherine.chan@hok.com; (415) 356-8535
Contractor:	Hensel Phelps, Owen Olson (408) 452-1800
Owner:	GSA-Alameda, Ron Alameida (former Project Manager) Ronald.alameida@sfgov.org; (415) 695-3861

DOUG ZUURING

Claybank Adult Detention Facility, Fairfield, CA
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Catherine.chan@hok.com; (415) 356-8535
Owner: Solano County, Kanon R Artiche (Solano County Architect)
krartiche@solanocounty.com; (707) 784-7908

New SFPUC Administrative Building, San Francisco, CA
This project is the construction of a new SFPUC Administrative Building. It is a 13-story, 277,000 sq ft. building that will house the SFPUC headquarters. This building aims to be the greenest office building in the country and achieve a LEED Platinum Certification from the US Green Building Council..

Architect: KMD Architects, Jim Mueller
(415) 398-5191
Contractor: Webcor, Andrea Weishemer (Sr. Project Manager)
andrea@webcor.com; (415) 978-1117
Owner: SFPUC, Brook Mebrahtu (Project Manager)
Brook.mebrahtu@sfdpw.org, (415) 557-4642

Skyline College Capital Improvement Program 2, San Bruno, CA
This project consists of construction of a new wellness center (B4), a new Auto Center (B11), and associated Site Improvements including a new Landscape Quad. Site works includes new parking lots and a ceremonial drop off circle, traffic safety study, update all ADA accessible paths and parking spaces to meet code, pavement repairs, grading and drainage, campus wide sewer and storm systems capacity study.

Contractor: Hensel Phelps, Owen Olson
(408) 452-1800
Owner: San Mateo County Community College District, Glenn Claycomb
Claycombg@smcccd.edu; (650) 738-7062

INSURANCE

STATEMENT OF AVAILABLE INSURANCE

TECI has worked on many similar projects and with different developers. We are knowledgeable and have the capacity to meet the insurance requirements imposed on us for our involvement in a project.

TECI currently has a $1M Per Claim and Aggregate for Professional Liability. However, **TECI have the capacity and ability to provide the insurance requirements ($5M Professional Liability) as requested by HOK.**

SUPPLEMENTAL INFORMATION

TELAMON
ENGINEERING CONSULTANTS, INC.

SAN FRANCISCO
855 Folsom St, Unit 142
San Francisco, CA 94107
Tel: (415) 837-1336
Fax: (415) 837-1354

OAKLAND
1330 Broadway, Suite 952
Oakland, CA 94612
Tel: (510) 893-1668
Fax: (510) 893-1669

February 29, 2012

Ms. Catherine Chan
HOK
One Bush Street, Suite 200
San Francisco, CA 94104
Tel: 415-356-8535
Fax: 415-882-7763
Email: Catherine.chan@hok.com

Subject: San Mateo County Replacement Correctional Facility
Redwood City, California

Ms. Chan,

Thank you for the opportunity in submitting Telamon's Civil Engineering qualification for the San Mateo County Jail project.

As founder and Principal of TECI, I take great pride in establishing an exceptional company culture and am passionate about fulfilling our company's Mission Statement:

"Our mission is to partner with our clients to deliver quality projects in a timely and cost efficient way through our Civil Engineering design expertise and professionalism."

I have been practicing civil engineering and project management for thirth years and been a hands on executive since I established Telamon Engineering Consultants Inc (TECI) in 1993. I have applied my Technical, Management and Problem Solving expertise for the last nineteen years in managing and successfully delivering small to large scale complex engineering projects in the Bay Area. My prior project experiences at Wilsey & Ham and BKF include many major development and planning projects in the County of San Mateo including Foster City, Redwood City, Brisbane, Cupertino... These projects have prepared me well in unique design characteristics in the area and qualified me to proactively manage project issues and risks such as ones associated with Bay Mud, Contaminated soil and BCDC issues.

My strong master planning capability, technical deign expertise, experience in managing and successfully delivering complex engineering projects including construction documents preparation provide me with a unique thorough understanding of every critical facets of the project delivery lifecycle.. Besides sound engineering, I am also sensitive to the political and cost issues a project or its stakeholders face. Recently I have successfully delivered the 2 Utility relocation contracts for the Central Subway project in San Francisco. This project is highly political and technically challenging. It is a 1.7-mile light rail transit that passes through some of the most congested and high profile business areas within the City of San Francisco, including Union Square and Chinatown. I managed a team of consultants, including all City agencies and private utility companies, such as PGE & ATT to deliver the project on-time and within budget. As a JV partner and contract package manager, I have also met all stringent SFMTA, SFPUC and FTA requirements. I put pride in our ability to understand and resolve issues with all stakeholders in a mutually beneficial and team oriented environment.

TECI has designed many detention facilities within the State of California. We are also very familiar with the Design Build (DB) and CM-At Risk protocol. San Bruno Jail No. 3 Replacement, located in San Bruno, is the first project that the City and County of San Francisco utilized the DB contracting method. Since then, we have worked on many DB and CM-At Risk projects with contractors, such as Hensel Phelps and Webcor.

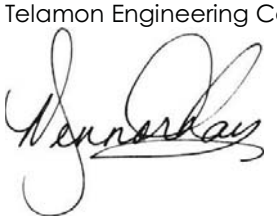
Second half of our Mission Statement clearly speaks for our staffs' passion about the environment:

"Our vision is to ensure a sustainable future for the next generations by caring about the people and the environment now."

TECI staffs are some of the first LEED accredited professionals and also QSD/QSP certified. At the San Bruno Jail No. 3, TECI has designed one of the first detention ponds in the Bay area and the RWQCB has since paid visits to observe how it was designed. TECI is also working on the Pier 27 – Cruiseship terminal, which will also be utilized to host the America's Cup event. TECI is currently working with the Port of San Francisco and RWQCB in the permitting for these 2 high profile projects.

TECI is not large in size but in our hearts and reputation, by design. TECI believes in delivering high quality design and in serving our clients with all our commitment. Lastly, I have also attached a recommendation letter from one of our clients that we have served over 10 years in Mission Bay.

Sincerely Yours,
Telamon Engineering Consultants Inc.



Mennor Chan, PE, PLS, LEED BD+C
Principal

Attachments: Supplemental Information – Other Project Experiences

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SAN FRANCISCO
855 Folsom St, Unit 142
San Francisco, CA 94107
Tel: (415) 837-1336
Fax: (415) 837-1354

OAKLAND
1330 Broadway, Suite 952
Oakland, CA 94612
Tel: (510) 893-1668
Fax: (510) 893-1669

DETENTION FACILITY PROJECT EXPERIENCE

San Bruno Jail Replacement Project
San Bruno, CA
This project involves the construction of a new jail facility adjacent to and ultimately replacing the adjacent facility. Major site and infrastructure improvements were required to modernize the entire jail complex. TECI provided master planning for all on-site utilities, new roadway system, parking lots, grading and drainage, site retaining walls, and coordination with various public agencies.

Claybank Detention Facility
Fairfield, CA
The Project is the expansion of the existing detention facility and renovation of the 380-bed existing facility . The addition includes a 512-bed, 140,000 square-foot housing facility.

Alameda County Juvenile Justice Center
San Leandro, CA
It is the design and construction of a multi-award winning 379,000 sf building which houses a detention facility, courthouse, support building and parking lot. It is located on 18 acres of steep difficult terrain and seismically challenging site next to the existing facility. It is the first juvenile justice facility in the country to attain LEED Gold Certification TECI is the Civil engineer of record for the entire project.

San Francisco Youth Guidance Center
San Francisco, CA
This project involves the phased replacement of many of the existing Juvenile Hall facilities at the San Francisco Youth Guidance Center, near Twin Peaks and Mt. Satro (Laguna Honda). The project is particularly challenging as the site is located in a steep hillside terrain and existing secure facilities have to remain operation during construction.

Avenal State Prison
Avenal, CA
This project is comprised of a new, single story free-standing reinforced masonry block building, which will provide approximately 1,853 gross square feet of Clinical Case Management space and related site improvements. The building includes offices, group rooms, and other support areas. Corcoran State Prison, Corcoran, CA

Central California Women's Facility CCCMS Building & EOP Building
Chowchilla, CA
This project is comprised of a new single story free-standing reinforced masonry block building, which will provide approximately 2,777 gross square feet if an Enhanced Outpatient Program space, 1,546 gross square feet of Reception Center Screening & Evaluation space, and related site improvements.

Contra Costa Juvenile Facility
Martinez, CA
This project Involves the construction of a new juvenile detention facility. The facility comprises eight 20 room modular units, each with a maximum capacity of 30 beds, for a total maximum capacity of 240 beds. Exterior areas include: playing field, recreation storage, unit recreation, activity courtyards, parking and sallyport.

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COUNTY OF SAN MATEO PROJECT EXPERIENCE

Peninsula Jewish Community Center
Foster City, CA

The Peninsula Jewish Community Center is an educational facility that site on a 12-acre site. The project's total floor area is approximately 118,400 square ft. It includes a school, cultural center and auditorium, a fitness center and other educational facility. TECI was retained to develop a master plan to include an access roadway, parking, on-site utility. Other services include coordination with all relevant agencies such as the RWQCB and local city agencies.

Skyline College Capital Improvement Program No. 2
San Bruno, CA

This project consists of construction of a new wellness center (B4), a new Auto Center (B11), and associated Site Improvements including a new Landscape Quad. Site works includes new parking lots and a ceremonial drop off circle, traffic safety study, update all ADA accessible paths and parking spaces to meet code, pavement repairs, grading and drainage, campus wide sewer and storm systems capacity study.

San Bruno Jail Replacement Project
San Bruno, CA

This project involves the construction of a new jail facility adjacent to and ultimately replacing the adjacent facility. Major site and infrastructure improvements were required to modernize the entire jail complex. TECI provided master planning for all on-site utilities, new roadway system, parking lots, grading and drainage, site retaining walls, and coordination with various public agencies.

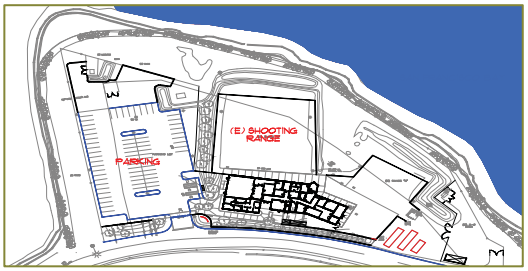
SFO Business Center - Building 575
San Bruno, CA

This project is the renovation of the Building 575 in the San Francisco International Airport. This building it is now home to Airport Commission Employees working in IT, Aviation Management, Parking Management, Revenue Development and Management, Finance, and Accounting. Also joining the Airport staff in the building is the Airport Liaison Office. This building is LEED Gold certified.

SFO Wetland and Canal Survey
San Bruno, CA

This project was part of the San Francisco International Airport (SFIA) SFGS Recovery Action Plan. TECI performed land surveying to support the Environmental Consultant effort in identifying location along the Cupid Row Canal / South Lomita Canal / Wastewater Treatment Plant areas to recreate aquatic habitats.

SFO Police Training Facility
San Bruno, CA



This project involves construction of a new Police Training Facility at the San Francisco International Airport. It includes a shooting range, a 10,000 square feet single story building, a four-story Control/Sniper Tower and a 60-stall parking lot. This project is underlying by bay mud. Design must anticipate any future differential settlement between the building and other site improvements and utilities. Another challenge is that the project is located near the shoreline and it involves permitting with various agencies such as BCDC, RWQCB, and Corp of Engineers.

Gateway 101 - East Palo Alto Redevelopment Project
San Mateo County
Project Engineer for this 140-acre residential/commercial redevelopment project. Planned, scheduled, and coordinated technical information for the Environmental Impact Report for the project.

Vintage Oaks, Menlo Park
San Mateo County
Project Engineer for this 46-acre, 130-single family residential development. Plan, schedule, conduct and coordinate detailed phases of technical work with developer, city officials and landscape architect. Project design and development for grading and utility system. Due to the requirement to preserve over 100 Oak trees on site, grading became a technical challenge. Utility systems design also became very restrictive.

Martinique Cove
Foster City, CA
Design Engineer for this 18-unit water front residential development in City of Foster City. Performed project design and development for grading and utility systems from master planning through construction, preparations of specifications, and report preparation.

Northeast Ridge
Brisbane, CA
Designed the entire on-site storm drain and sanitary sewer system for this 230-acre, 600-unit hillside residential development. SWMM program was being used.

Linda Vista
Daly City, CA
Designed the entire on-site storm drain system for this 60-acre, 380-unit hillside residential development.

Belmont Water District
Belmont, CA
Using Water Works program to analyze both domestic and fire flow demands for the entire water distribution system for Belmont Water District. Identified problem areas and recommended immediate and future upgrading of the system. Presented the water distribution system map in the report by using CADD.

Hillside Village
Daly City, CA
Designed the entire on-site storm drain and sanitary sewer systems for this 200-unit hillside residential development.

Emerald Lake Hills Water Supply Study
San Mateo County
Using Kentucky Pipe program to analyze domestic and fire flow demands for the entire Emerald Lake Hill Water Distribution System for City of Redwood City. Identified problem areas and recommended improvements to the City.

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DESIGN BUILD/CM AT RISK PROJECT EXPERIENCE

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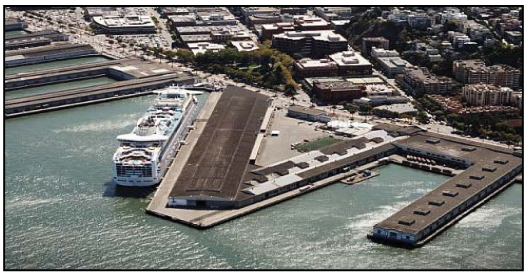
525 Golden Gate – New SFPUC Administrative Building
San Francisco, CA
This project is the construction of a new SFPUC Administrative Building. It is a 13-story, 277,000 sq ft. building that will house the SFPUC headquarters. This building aims to be the greenest office building in the country and achieve a LEED Platinum Certification from the US Green Building Council. TECI is the Civil Engineer of record for the project.

Pier 27 New Cruiseship Terminal
San Francisco, CA
The Pier 27 New Cruise Ship Terminal project will convert the 178,000 square feet existing pier and maritime shed into a new primary, single berth cruise ship terminal. It also includes the development if a plaza located along the Embarcadero between Pier 27 and 29 and modifications to the street and sidewalk configuration along the Embarcadero.



New Public Safety Building
San Francisco, CA
The Public Safety Building (PSB) project will provide a replacement facility for the SFPD Headquarters and the Southern District Police Station, currently located at 850 Bryant (the Hall of Justice). The project has a total area of 300,000sf, this includes Police Headquarters, Police Station, Fire Station, a Shared functional area and a Parking Structure. It is anticipated to achieve a LEED Gold certification.

Highland Hospital
Oakland, CA
Highland Hospital's roughly 14-acre campus is situated in Oakland's San Antonio District and is set in a residential neighborhood. This replacement project is responding to the State of California's legislation – SB1953. TECI provided a Schematic Design level study and prepared the Design Criteria for the Design/Build team.

Project Name: **New Central Subway – Third Street Light Rail – Phase 2**
San Francisco, California

Project Description: This project consists of the construction of the new light rail line that will connect Visitacion Valley to North Beach in 3 phases:

- Phase 1 – Visitacion Valley to Fourth Street and King
- Phase 2 – Fourth Street and King to Chinatown
- Phase 3 – Chinatown to North Beach

Phase 2 has 7 Construction Packages (CP):

- CP 1 – Utility Relocation for Moscone Station and Portal
- CP 2 – Utility Relocation for Union Square/Market Street Station
- CP 3 – Tunnel Construction
- CP 4, 5, 6 – Union Square/Market Street Station, Chinatown Station, Moscone Station
- CP 7 – Surface Track

TECI takes the lead and manages the Utilities Relocation design and coordination for 6 out of the 7 Construction Packages. Furthermore, we are the JV Partner with PB Americas for CP 1, 2 and 3. These packages are either under construction, bidding in progress or soon to be out to bid.

This project affects heavily populated areas within the City. It requires strenuous coordination with both public and private agencies. Agencies that TECI worked side by side with includes, SFWD, SFFD, AWSS, SFPUC, SFDPW, SFMTA, SFDPT, Urban Forestry, MUNI, PGE, ATT, Comcast, NRG and more. As the Package Manager for CP1 and CP2, TECI worked closely with the designers for all agencies to ensure the quality and timely submittal of the Plans, Specifications, Estimates and Quality Control Process.

Apart from that, TECI also coordinated with the businesses that will be affected to ensure that SFMTA have their cooperation and that there will be very limited disruption during construction.

Owner Name: ***San Francisco Municipal Transit Authority (SFMTA)***

Client Name: ***PB/Telamon Joint Venture***

Reference Name: Mr. Albert Hoe
Deputy Project Manager
Central Subway Project
415.701.4289

Construction Budget: $1.7 billion

Project Completion Date: 2009 – 2020

ALEXANDRIA.

October 12, 2011

Letter of Recommendation for Telamon Engineering

To Whom It May Concern:

I have hired Telamon Engineering over the course of the last 10 years repeatedly and for a variety of tasks including Master Planning, infrastructure design work, and civil engineering for building projects at Mission Bay. I have engaged Telamon while working at Catellus Development Corporation, and again at Alexandria Real Estate Equities Inc.

In every respect, I have been more than pleased with the work product prepared by Telamon Engineering. Beyond the work product, I have been more than pleased with the company's responsiveness, dedication, customer service attitude and team approach. I have worked with a variety of staff members at Telamon Engineering and am very pleased to state that each one has been responsive, helpful and knowledgeable.

The complexity of projects at Mission Bay requires intricate work, collaboration with other land owners, the Master Developer, and multiple City Agencies. Telamon Engineering staff exhibit a high skill set in working on a project of any level or complexity and in being effective team members.

I would hire Telamon Engineering again and again, as I have in the past, because they provide a high level of service, great quality work product, and they are cost effective compared with their competition. In addition, they are a pleasure to work with.

I strongly recommend Telamon Engineering for any civil engineering related task or project. Please feel free to contact me at 415-554-8847 or tnemeth@are.com for any additional information.

Sincerely,

Terezia Nemeth
Vice President, Asset Services and Development

Alexandria Real Estate Equities, Inc.
1700 Owens Street, Suite 590 | San Francisco, CA 94158
TEL 415.554.8844 | FAX 415.554.0142 | www.are.com

SOHA
ENGINEERS

Statement of Qualifications

Structural Engineering Services
For
San Mateo County
Replacement Correctional Facility

San Mateo County Sheriff's Office

Submitted to:

HOK Architects
One Bush Street, Suite 200
San Francisco, CA 94104

February 29, 2012

SOHA ENGINEERS

Table of Contents

Tab 1

SOHA ENGINEERS

Firm Background

Founded in 1965, SOHA Engineers is one of the leading structural engineering firms in California, with offices in San Francisco and Oakland. SOHA professionals are dedicated to implementing and maintaining a creative and cost-effective approach to project delivery and award-winning structural design in a team environment. For over four decades, SOHA has been providing a full spectrum of services, including seismic design of new buildings and structures, seismic evaluation and rehabilitation of existing structures and bridges, historical renovations, shoring and underpinning design, seismic evaluations and reports, plan checking, and peer review. We have engineered some of the most significant projects in the Bay Area, including numerous projects at the San Francisco International Airport, the new Children's Center at Yerba Buena Gardens in San Francisco, the Chabot Observatory and Science Center in Oakland, and the new east span of the San Francisco-Oakland Bay Bridge.

Services Offered:

- Structural Design
- Seismic Rehabilitation
- Historic Renovation
- Seismic Evaluation
- Peer Review
- Plan Check
- Shoring & Underpinning
- Construction Support
- BIM / Revit

Our main focus is to provide the highest level of services to ensure the delivery of a successful project; SOHA maintains an exemplary record of completing projects on time. Meeting budget and scheduling requirements are the direct result of our sustained project management, value engineering, cost control, and quality control efforts, all of which SOHA routinely employs through each phase of every project.

SOHA has special expertise in seismic design and rehabilitation of commercial, government, transportation, and institutional facilities (including housing, schools, health facilities, community centers, justice facilities and civic buildings) in accordance with the latest codes and regulations in California. We also have extensive experience as a prime consultant to lead multi-discipline consultant teams and to effectively plan, execute and manage complex, multi-faceted projects under tight budgetary constraints and demanding schedules. SOHA is a minority-owned business enterprise (and DBE Certified) dedicated to maintaining an integrated staff and providing equal opportunity for both minority and women employees. Our staff actively participates in community and professional organizations.

Contact: Stephen Lau, President
T 415.989.9900
F 415.989.9909
E slau@soha.com

SOHA
ENGINEERS

Project Approach

Integrated Design

First and foremost, SOHA's integrated design approach focuses on comprehensive involvement at the outset from the entire team – Sheriff's Office, the County, architects, engineers, specialty consultants, and CM/GC. Our past success has led us to this approach that is highly integrated and collaborative, and addresses the overall needs of the project that emerges from a clear understanding of the owner's vision, design intent, sustainability and performance goals. To achieve this high value solution, SOHA strives for an intense and early collaboration with the entire team to develop various structural design alternatives. Working together, this integrated approach facilitates the development of a building system matrix that helps the San Mateo County Sheriff's Office better understand the costs and risks associated with each alternative, and makes the most informed decisions throughout the design process.

SOHA's extensive experience in the design of governmental and institutional facilities has evolved through our fundamental belief that good structural engineering is rooted in common sense. We are committed to designing the most practical integrated structural systems recognizing the fact that the best solution is not always the most conventional, and that it often requires implementation of creative and innovative structural systems supported by thorough code or performance based analyses. Within this framework, we strongly believe that the benefits of integrated design outweigh the conventional bid/build process.

Structural Issues

SOHA's proposed personnel has extensive experience with designing projects in poor soil conditions and Bay Mud located in San Mateo County. SOHA has designed numerous complex projects at the San Francisco International Airport (East of Highway 101) with extremely challenging Bay Mud and liquefaction issues. With the experience and knowledge gained from working on these projects, SOHA can bring invaluable insights to the San Mateo County Replacement Correctional Facility project. These benefits include our extensive research in selecting the most appropriate and cost effective deep foundation system for these types of soil profiles, and designing the most efficient structural ground floor slab system to support the superimposed floor loads. We understand that there will be significant loss of ground support due to severe seismic shaking at the proposed site for this project. We have dealt with this similar issue in the past, and have developed creative and effective structural solutions as well as means of properly supporting various suspended subgrade utilities and pipings.

Project Approach (continued)

SOHA has extensive experience in justice and detention facilities, and understands that structural design of correctional facilities requires careful consideration of several important factors including:

- Safety and Security requirements consistent with the intended uses and performances of various buildings in the facility.
- Simplicity and Constructability of the structural system as a part of the Architectural and other integrated building systems.
- Flexibility and Redundancy of the structural system for the purpose of potential future expansion and modifications.
- Serviceability with well-controlled vertical and horizontal framing displacements due to seismic and wind forces.
- Well-controlled Vibration and Sound transmission, as a result of foot traffic and building systems' equipment operations.
- Sustainability.
- Schedule and Cost.

In the design of Inmate Housing Units in correctional facilities, we will seize the opportunities associated with the repetitive nature of the interior programmed spaces to explore various structural systems to not only provide the highest level of security and quality, but also significantly reduce the construction cost and schedule. Some of these strategies, in addition to more conventional framing systems, may include the following:

<u>Interior Structural Framing Systems</u>

- Structural Steel Modular Cell System with Concrete Filled Metal Deck
- Pre-cast Concrete Modular Cell Systems with Pre-cast Concrete Plank Floors
- Pre-cast Concrete Post and Beam System with Pre-cast Concrete Plank Floors
- Structural Steel Post and Beam Pre-Manufactured Systems such as ConXtech
- Pre-Fabricated Metal Systems

<u>Exterior Wall Systems</u>

- Exposed Pre-cast Concrete (tilt-up) Panels
- Modular Pre-cast Concrete or GFRC Panels
- Thin Shell Concrete on Steel Studs
- Structural Metal Panels on Steel Studs or Girts

Tab 2

SOHA ENGINEERS

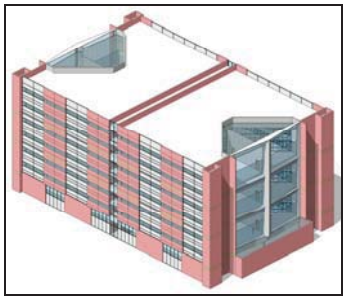
Detention Project Experience

San Francisco County Jail No. 3, San Bruno, California – SOHA Engineers is part of a design-build team selected to provide design and construction of this multi-building correctional facility to include inmate housing, administration building, multi-purpose building and central plant. As part of the design process, SOHA Engineers works in a collaborative process with the builder, the design team and the County of San Francisco Sheriff's Department. The facility is located within 2 miles of the San Andreas fault.

San Francisco Juvenile Justice Center, San Francisco, California – A multi-services juvenile center providing a diversity of services to youth and their families at one location. San Francisco Youth Guidance Center Juvenile Hall is the replacement of an existing facility on the same site. The new facility consists of six masonry bearing wall and steel-framed buildings, as well as two additional all steel-framed buildings. The project is located in an urban environment in the City of San Francisco.

Solano County Claybank Adult Detention Facility, Fairfield, California – This project for Solano County Sheriff's Department includes a new 140,000 square-foot housing facility with 512 beds and the renovation of a 380-bed existing facility. This facility is to include housing units, administration, indoor and outdoor recreation area, health services. Project also includes phasing during construction.

Fresno Juvenile Justice Campus, Fresno, California – The campus provides services to various juvenile justice facilities and functions for the County of Fresno. Phase I of the project includes a commitment section, a detention section, an institutional core building, a delinquency court building, central plant building, institutional support building and various other minor structures.



Sonoma County Male Adult Detention Facility, Santa Rosa, California – Conceptual Design of this project to include a new Phase 1 Addition of 700 beds with approximately 225,000 square-feet and a new Phase 2 Addition of 500 beds with approximately 165,00 square-feet to include housing, medical, clinic and support areas. Project also included a new Community Correctional Center with 125,000 square-feet on four floors, and renovation of 50,000 square-feet of an existing facility.

SOHA ENGINEERS

Detention Project Experience (continued)

Folsom State Prison, Folsom, California – SOHA is the Prime Consultant responsible for coordinating design and construction administration activities for all disciplines including architectural, electrical and mechanical and serving as the liaison with the Folsom State Prison officials. SOHA designed the seismic retrofit for Inmate Housing 1, Inmate Housing 5, Dining Room 1 and 2. The 1800-inmate facility had to remain fully operational and secure during construction.

California Institute for Men at Chino, Chino, California – This is a Correctional Facility made out of five units. Units one to four were built in 1950 while unit five was built in 1959. The building structures occupy an area of 120,000-sf. The construction is primarily made of reinforced concrete roof slabs, floor slabs, walls and columns; the foundation is a continuous footing type. The seismic retrofit of these massive structures consisted of the verification and retrofitting of collectors, providing lateral support elements (primarily shear walls) and the appropriate transfer of the seismic forces to the ground.

Soledad State Prison, Soledad, California – The Vocational Building VS-1 was built in 1959. It is a one-story light-gauge steel framing structure of 60 x 380 feet in dimension; the floor area is 228,00-sf. Seismic forces are transversely supported by light gauge steel moment frames placed every 20 feet and longitudinally by vertical cross bracing members. The seismic retrofit scheme consists of strengthening the two lines of lateral resistance.

California Youth Authority, Preston School of Industry, Preston, California – Built in 1929, the facility is a one-story T-shaped, unreinforced masonry bearing wall building with basement. The roof is a steeply pitched gabled roof with dormers. The building has 16,300-sf on the ground floor and 7,200-sf in the basement for a total of 23,500-sf. As the prime consultant, SOHA was responsible for complete coordination with all disciplines for seismic rehabilitation of this historically significant building.

San Quentin State Prison, San Quentin, California – The East Cell Block Building is a 50-foot high one-story reinforced concrete building with plan dimensions of approximately 339'x64'. Clearspan steel trusses spaced 18-feet apart span the transverse direction and support a wood-framed roof. SOHA Engineers completed Design Development Drawings and Specifications. The analysis revealed structural deficiencies in the existing buttresses in the transverse direction, the west longitudinal wall and roof diaphragm for the design seismic forces.

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	**Project Information**										**Location**			**Delivery**		**Teaming Experience**					**Comments** *(include any additional key info you would like us to know about this project - please be brief!)*
	Year of Completion	**Construction Cost** *(in $Millions)*	**Gross Area** *(in square feet)*	**No. of Beds (Design Capacity)**	**Direct Supervision**	**No. of Building(s)**	**No. of Storey(s)**	**LEED Certification** *(None, Certified, Silver, Gold or Platinum)*	**BIM Usage** *(answer yes if a design model was created for coordination and deliverable)*	**New Facility - Full Service Design** *(not part of TI project)*	**Redwood City (RWC)**	**San Mateo County (SMC)** *(if not in RWC)*	**State of CA** *(if not in RWC/SMC)*	**CM at Risk**	**Design-Build**	**Direct Relevant Experience -** *Have one or more of your proposed key personnel worked on this project?*	**HOK**	**Hensel Phelps**	**McCarthy**	**Sundt-Layton**	
San Francisco County Jail No. 3 San Bruno, California	2006	$100M	280,000	768	Yes	3	3 to 4	None		Yes		Yes	Yes		Yes	Yes					
San Francisco Juvenile Justice Center San Francisco, California	2007	$45M	95,000	200	Yes	3	2	None		Yes			Yes			Yes					
Solano County Claybank Adult Detention Facility Fairfield, California	2013	$70M	140,000	512	Yes	3	2	Silver	Yes	Yes			Yes			Yes	Yes				
Fresno Juvenile Justice Campus Fresno, California	2007	$180M	655,000	1020	Yes	12	2	Silver		Yes			Yes			Yes					
Sonoma County Male Adult Detention Santa Rosa, California	TBD	$150M	225,000	700	Yes	3	2 to 7	Silver	Yes	Yes			Yes			Yes	Yes				
Folsom State Prison Folsom, California	2002	$30M	300,000	1,800	Yes	4	4	None					Yes			Yes					

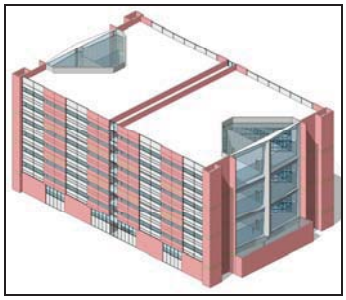
SOHA ENGINEERS

Project Experience with HOK

New Public Safety Building, San Francisco, California – New six-story, 300,000 square-foot building. Building program consists of police headquarters, local police station, local fire station and parking. This facility is located in the Mission Rock neighborhood of San Francisco. Design also includes progressive collapse and blast design. This project is designed to be LEED Gold certified.

National Oceanic & Atmospheric Administration (NOAA), Pacific Regional Center, Main Facility, Honolulu, HI – Using Revit software, SOHA designed a combination of concrete shear walls and braced frames system to preserve the open architectural layout for the adaptive reuse of this historical landmark, which consists of two 260,000 gross sq-ft aircraft hangars (B175 & B176) that survived the Pearl Harbor attack. Design challenges included preserving the historical integrity of the hangars while removing the existing mezzanines, adding new floors and connecting the hangars to a new 100,000 sq-ft building (Building A).

Solano County Claybank Adult Detention Facility, Fairfield, California – This project for Solano County Sheriff's Department includes a new 140,000 square-foot housing facility with 512 beds and the renovation of a 380-bed existing facility. This facility is to include housing units, administration, indoor and outdoor recreation area, health services. Project also includes phasing during construction.



Sonoma County Male Adult Detention Facility, Santa Rosa, California – Conceptual Design of this project to include a new Phase 1 Addition of 700 beds with approximately 225,000 square-feet and a new Phase 2 Addition of 500 beds with approximately 165,00 square-feet to include housing, medical, clinic and support areas. Project also included a new Community Correctional Center with 125,000 square-feet on four floors, and renovation of 50,000 square-feet of an existing facility.

San Francisco Hall of Justice, Feasibility Study – SOHA Engineers performed a feasibility study of modifying the current San Francisco Hall of Justice located at Seventh and Bryant Streets. The existing 'L'-configuration would be separated into two rectangular wings. The east wing would continue courtroom operations, while the west wing would be demolished, abandoned or rehabbed for office operations. It was intended to determine the feasibility of this configuration for operations in the following 20 years until a new courtroom facility would be constructed and online, potentially at an adjacent site.

SOHA ENGINEERS

Project Experience with CM/GC, CM at Risk, Design-Build

New PUC Administration Building, 525 Golden Gate Avenue, San Francisco – This 13-story building provides 265,000 square-feet of office space and two levels of below-grade parking. Extensive utilization of sustainable design features is expected to win a LEED Platinum Rating by the U.S. Green Building Council. The structural system consists of post-tensioned slab/beam floors and post-tensioned concrete shear walls. The foundation system is comprised of a five-foot thick concrete mat.
Delivery Method: CM/GC
Builder: Webcor

New Public Safety Building, San Francisco – New six-story, 300,000 square-foot building. Building program consists of police headquarters, local police station, local fire station and parking. This facility is located in the Mission Rock neighborhood of San Francisco. Design also includes progressive collapse and blast design. This project is designed to be LEED Gold certified.
Delivery Method: CM/GC
Builder: Pankow

Center for Health Sciences & Technology, Ohlone College, Newark – Designed to accommodate approximately 2,500 full time equivalent students, SOHA designed this new LEED Platinum ranked 130,000-sq. ft. facility using a gravity and lateral system composed of steel braced frames and steel moment frames with composite floors. Project scope includes classroom buildings, student union, a gymnasium/shop building and administrative offices.
Delivery Method: CM at Risk
Builder: Turner

Joint-Use Building, City College of San Francisco – SOHA designed a complicated framing system, including architecturally exposed steel braced frames that would accommodate the architectural vision and MEP elements of this 103,000-sq. ft., four-story (plus basement) classroom facility. Featuring a full-height atrium that spans the length of the building, SOHA interconnected the structure's two long wings with a series of compatible bridges. With a Green Roof and series of light monitors, this building carries a LEED Gold rating.
Delivery Method: CM at Risk
Builder: Bovis

New Mission Campus, City College of San Francisco – For this new 198,000-sq. ft. education facility, located in the Mission District of San Francisco, SOHA designed a four-story, steel-framed superstructure with a full basement level of cast-in-place concrete construction. The facility houses classrooms, a theater and audio/visual auditorium, administrative offices, student facility services, a library, multipurpose rooms and storage facilities. The cornerstone of the campus features a 20-ft. replica of a Mayan Aztec Calendar at the main entry.
Delivery Method: CM at Risk
Builder: McCarthy

SOHA ENGINEERS

Project Experience with CM/GC, CM at Risk, Design-Build (continued)

University Center Building, Sonoma State University, Rohnert Park – This new 133,000-sq. ft. facility will serve3 as the new university center for the campus. This facility houses a cafeteria, restaurant, kitchen areas, bookstore, administrative offices and a new theater. Structural system includes steel beams and columns with metal deck, lateral system utilizes buckling restrained braced frames to minimize the number of braced bays and foundation work.
Delivery Method: CM at Risk
Builder: Sundt

New Cruise Ship Terminal at Pier 27, San Francisco, California – Project is for a new cruise ship terminal to be located at the existing Pier 27 in San Francisco. Project includes a terminal building approximately 80,000 square feet, which will serve as the new main cruise ship terminal facility for San Francisco. Current design schemes include renovation and structural strengthening of the existing pier 27 building as the terminal building and design of a new terminal building. This is a Revit project.
Delivery Method: CM/GC
Builder: Turner

New Wellness Center, City College of San Francisco – The irregular, complex layout of this new 156,000-sq. ft. facility required a lateral structural system comprised of special concentric braced frames and reinforced concrete shear walls supported on a continuous concrete grid footing system. Project included a large gymnasium featuring architecturally exposed long-span tresses, computerized fitness center, dance theater complex, staff offices, student health services and an indoor swimming pool.
Delivery Method: CM at Risk
Builder: Hunt

San Francisco County Jail No. 3, San Bruno, California – SOHA Engineers is part of a design-build team selected to provide design and construction of this multi-building correctional facility to include inmate housing, administration building, multi-purpose building and central plant. As part of the design process, SOHA Engineers works in a collaborative process with the builder, the design team and the client. The facility is located within 2 miles of the San Andreas fault.
Delivery Method: Design-Build
Builder: AMEC

Public Safety Building, Berkeley, California – SOHA Engineers is part of a design/build team for the structural design of this new two-story (with basement) reinforced concrete shear wall, seismically isolated essential facility building. Located in close proximity to the Hayward Fault, it houses the City of Berkeley Police and Fire Department, 911 dispatch center, training operations, control center, administrative offices, and holding cells.
Delivery Method: Design-Build
Builder: S. J. Amoroso

SOHA ENGINEERS

References for CM at Risk

1. Sarah Garcia, Project Manager
   Turner Construction Company
   1625 Clay Street
   Oakland, CA 94612
   Tel: (510) 407-9662
   Email: sgarcia@tcco.com

2. Mark Bartlett, Regional Manager
   Hunt Construction Group
   100 Pine Street, Suite 2460
   San Francisco, CA 94111
   Tel: (415) 391-3930
   Email: mbartlett@huntconstructiongroup.com

3. George Speights, Director
   McCarthy Construction
   400 Montgomery Street, Suite 700
   San Francisco, CA 94104
   Tel: (415) 364-1327
   Email: gspeights@mccarthy.com

4. Ron Deal, Employee Owner
   Sundt Construction, Inc.
   Sonoma State University Center Project
   1801 East Cotati Avenue
   Rohnert Park, CA 94928
   Tel: (775) 742-3576
   Email: rdeal@sundt.com

Tab 3

SOHA ENGINEERS

BIM (Revit) Project Experience

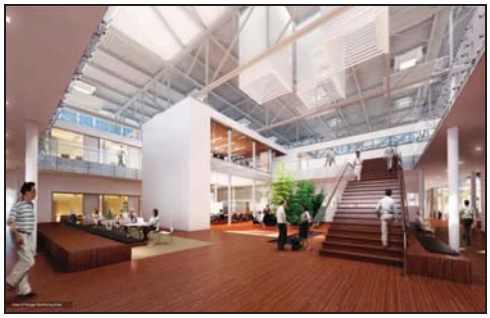
SOHA Engineers has been in the forefront of the implementation of BIM (Revit) design into our projects for both our governmental and institutional clients. The staff at SOHA has extensive experience in the development and utilization of BIM (Revit) in engineering design, multi-disciplinary coordination, production of contract documents, and construction verification. Some of our recent BIM (Revit) projects include:

- Solano County Claybank Adult Detention Facility, Fairfield, CA
- New Public Safety Building, San Francisco, CA
- New PUC Administration Building, 525 Golden Gate Avenue, San Francisco, CA
- NOAA Pacific Regional Center, Main Facility, Honolulu, HI
- New Pier 27 Cruise Ship Terminal, San Francisco, CA
- San Francisco General Hospital Rebuild, San Francisco, CA
- MUNI Central Subway, San Francisco, CA
- Battelle Biological Sciences Facility, Richland, WA
- Battelle Computational Sciences Facility, Richland, WA
- Kaiser Medical Office Building, San Francisco, CA

Solano County Claybank Adult Detention Facility

New PUC Administration Building

New Pier 27 Cruise Ship Terminal



NOAA Pacific Regional Center

SOHA ENGINEERS

Sustainable Design Experience

SOHA Engineers strive for sustainable design by working with the design team to create the most efficient design while at the same time ensuring durability in the construction. SOHA Engineers also work with the builder to find optimal ways to incorporate the use of recycled content and local materials. For structural steel buildings we specify a high percentage of recycled steel. For concrete design, the reinforcement is specified to be 90% recycled while the cementitious material is specified to be around 50% recycled materials. In some cases we will also specify recycled aggregates.

We have been involved in various levels of LEED Certified projects in recent years for our governmental and institutional clients including:

- New Pier 27 Cruise Ship Terminal, San Francisco, CA **(Gold)**
- NOAA Pacific Regional Center, Honolulu, HI **(Silver)**
- New PUC Administration Building, 525 Golden Gate Avenue, San Francisco, CA **(Platinum)**
- Solano County Claybank Adult Detention Facility, Fairfield, CA **(Silver)**
- Fresno Juvenile Justice Campus, Fresno, CA **(Silver)**
- New Public Safety Building, San Francisco, CA **(Gold)**
- East Oakland Sports Center, Oakland, CA **(Silver)**
- Wellness Center, City College of San Francisco, CA **(Silver)**
- Joint-Use Building, City College of San Francisco, CA **(Gold)**
- Performing Arts Center, City College of San Francisco, CA **(Gold)**
- Center for Health and Sciences & Technology, Ohlone Community College, Newark, CA **(Platinum)**
- University Center at Sonoma State University, Rohnert Park, CA **(Silver)**
- University Center at University of the Pacific, Stockton, CA **(Gold)**

Fresno Juvenile Justice Campus

CCSF Performing Arts Center

SOHA ENGINEERS

San Mateo County Project Experience

- San Francisco County Jail No. 3, San Bruno
- Skyline Community College, San Bruno
- South San Francisco Unified School District, South San Francisco
- Burlingame Intermediate School, Burlingame
- Millbrae Administration Building, Millbrae
- Boarding Area 'A', San Francisco International Airport, Millbrae
- North Terminal Buildings Seismic Upgrade, San Francisco International Airport, Millbrae
- AMR Combs, Fixed Based Operational Facility, San Francisco International Airport, Millbrae
- Industrial Wastewater Treatment Plant Expansion, San Francisco International Airport, Millbrae
- BART/Airport Rail Transit System, San Francisco International Airport, Millbrae
- Peninsula YMCA, San Mateo
- San Andreas Outlet Structure, San Mateo
- Lower Crystal Springs Wall, San Mateo
- Upper Crystal Springs Dam Pump Station, San Mateo
- Lincoln Center, Foster City
- Foster's Landing, Foster City
- Kaiser Medical Office Building, Redwood City

San Mateo County Projects in Bay-Mud:

Boarding Area 'A', SF International Airport

North Terminal Buildings, SF International Airport

Peninsula YMCA, San Mateo

Lincoln Center, Foster City

Tab 4

SOHA ENGINEERS

Resume

Stephen Lau, PE
SOHA Engineers

Project Assignment
Principal-in-Charge

Education
BSCE, 1977, Cornell University, Ithaca, New York
MSCE, 1978, Cornell University, Ithaca, New York

Professional Registrations
1981, Civil Engineer, 33225, California

Key Qualifications
Mr. Lau is a Partner with SOHA Engineers and has been with the firm since 1981. He serves as Principal-In-Charge of major and complex projects for SOHA Engineers. Projects include seismic design and analysis and seismic rehabilitation of institutional and historically significant structures. Mr. Lau also manages prime As-Needed contracts for the Federal General Services Administration, the State of California Department of General Services and the City & County of San Francisco. These contracts include multi-discipline, multi-task management with tight budgets and demanding schedules. Mr. Lau has extensive experience in managing and designing various types of public buildings including libraries, city halls, administration/office and justice facilities.

Mr. Lau specializes in developing cost-effective, state-of-the-art design solutions for projects involving a high degree of structural complexity. He is an expert in performance-based seismic design and has developed innovative, unconventional structural systems for numerous buildings of all types – multi-family residential, commercial, office and mixed-use facilities, hotels, schools, parking structures and justice facilities. He has in-depth knowledge of the appropriate application of all major engineering materials, including steel, concrete, wood, and masonry. As Principal-In-Charge, Mr. Lau will be responsible for the overall delivery of the project including quality assurance/quality control, contracts & schedule, cost control and technical issues.

Relevant Experience

San Francisco County Jail No. 3, San Bruno, California – SOHA Engineers is part of a design-build team selected to provide design and construction of this $100M multi-building correctional facility to include inmate housing, administration building, multi-purpose building and central plant. As part of the design process, SOHA Engineers works in a collaborative process with the builder, the design team and the client. The facility is isolated within 2 miles of the San Andreas fault.

San Francisco Youth Guidance Center and Juvenile Hall, San Francisco, California – A multi-services juvenile center providing a diversity of services to youth and their families at one location. San Francisco Youth Guidance Center Juvenile Hall is the replacement of an existing facility on the same site. The new facility consists of six masonry bearing wall and steel-framed buildings, as well as two additional all steel-framed buildings. The seismic load transfer system uses masonry shear walls and steel-braced components.

Fresno Juvenile Campus, Fresno, California – The campus provides services to various juvenile justice facilities and functions for the County of Fresno. Phase I of the project includes a commitment section, a detention section, an institutional core building, a delinquency court building, central plant building, institutional support building and various other minor structures.

California Institute for Men at Chino, Chino, California – This is a Correctional Facility made out of five units. The building structures occupy an area of 120,000 square-feet. The construction is primarily made of reinforced concrete roof slabs, floor slabs, walls and columns; the foundation is a continuous footing type. The seismic retrofit of these massive structures consisted of the verification and/or retrofitting of collectors, providing lateral support elements (primarily shear walls) and the appropriate transfer of the seismic forces to the ground.

Folsom State Prison, Folsom, California – SOHA Engineers is the Prime Consultant responsible for coordinating design and construction administration activities for all disciplines including architectural, electrical and mechanical and serving as a liaison with the Folsom State Prison officials. SOHA designed the seismic retrofit for Inmate Housing 1, Inmate Housing 5, Dining Room 1 and 2 to meet the requirements per FEMA 273 & 274. The 1800-inmate facility had to remain fully operational and secure during construction, therefore the retrofit work was implemented in several phases.

Soledad State Prison, Soledad, California – The Vocational Building VS-1 was built in 1959. It is a one-story light gauge steel framing structure with dimensions of 60 x 380 feet, and a floor area of 22,800 square-feet. Seismic forces are transversely supported by light gauge steel moment frames placed every 20 feet and longitudinally by vertical cross bracing members. The seismic retrofit scheme consists of strengthening these two lines of lateral resistance. The seismic retrofit consists of strengthening and/or adding shear walls, as well as interconnecting critical lines of foundation.

SOHA ENGINEERS

Resume

Farshad Khodayari, SE
SOHA Engineers

Project Assignment
Principal Engineer

Education
BS/Civil Engineering/1985/SFSU
MS /Structural Engineering / 1987/SJSU

Professional Registrations
California, Civil Engineer, 48362, 1992
California, Structural Engineer, 4323, 1999
Washington, Structural and Civil Engineer, 44588

Key Qualifications
Mr. Khodayari joined SOHA in 1995. He specializes in the structural design and analysis of new and existing steel, concrete, wood and masonry buildings. He is a principal engineer responsible for all structural design phases and construction administration. Mr. Khodayari has been a key participant in the structural design of justice facilities, educational facilities, commercial facilities, office and mixed-use projects, hotels, schools, and parking structures as well as the design of various civic and community facilities. Mr. Khodayari will serve as SOHA Engineers' primary day-to-day contact person with the design team for all technical and contractual matters. His responsibilities will include supervision and direction of SOHA's project staff, contract management, scheduling, cost control, quality assurance and coordination with the design team. He has managed the design of many justice facilities, community centers, recreational facilities and multi-purpose facilities with various structural building types and foundation systems.

Relevant Experience

Solano County Claybank Adult Detention Facility, Fairfield, California – SOHA Engineers is the structural engineer-of-record for the design of this $55M adult detention facility for Solano County Sheriff's Department. This project includes a new 140,000 square-foot housing facility with 512 beds and the renovation of a 380-bed existing facility. This facility is to include housing units, administration, indoor and outdoor recreation area, health services. Project also includes phasing during construction.

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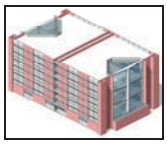

Sonoma County Male Adult Detention Facility, Santa Rosa, California – SOHA Engineers prepared Schematic Design for this project which included a new Phase 1 Addition of 700 beds with approximately 225,000 square-feet and a new Phase 2 Addition of 500 beds with approximately 165,00 square-feet to include housing, medical, clinic and support areas. Project also included a new Community Correctional Center with 125,000 square-feet on four floors, and renovation of 50,000 square-feet of an existing facility.

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SOHA ENGINEERS

Client References

For Stephen Lau

Owner: Brook Mebrahtu, Project Manager
Project Management Bureau
Department of Public Works
City & County of San Francisco
Tel: (415) 557-4642
Email: Brook.Mebrahtu@sfdpw.org

Architect: David Hobstetter, Principal
Kaplan McLaughlin Diaz
Tel: (415) 398-5191
Email: Hobstetter@KMD-arch.com

Contractor: Sarah Garcia, Project Manager
Turner Construction Company
Tel: (510) 407-9662
Email: sgarcia@tcco.com

For Farshad Khodayari

Owner: Charles Higueras, Project Manager
Project Management Bureau
Department of Public Works
City & County of San Francisco
Tel: (415) 557-4646
Email: Charles.Higueras@sfdpw.org

Architect: Richard Sheng, Director
Kaplan McLaughlin Diaz
Tel: (415) 398-5191
Email: Sheng@KMD-arch.com

Contractor: Chuck Palley, President
Cahill Construction Company
Tel: (415) 986-0600
Email: www.cahill-sf.com

Tab 5

Client#: 360 SOHAENGIN

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 6/21/11

PRODUCER
Dealey, Renton & Associates
P. O. Box 12675
Oakland, CA 94604-2675
510 465-3090

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
SOHA Engineers
48 Colin P. Kelly Street
San Francisco, CA 94107

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Hartford Casualty Insurance Co.	
INSURER B: Hartford Fire Ins. Co.	
INSURER C: Catlin Insurance Company, Inc.	
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR X CONTRACTUAL LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC	57SBAAV2615 GENERAL LIAB EXCLUDES CLAIMS ARISING OUT OF THE PERFORMANCE OF PROFESSIONAL SERVICES.	11/01/10	11/01/11	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $300,000 $10,000 $1,000,000 $2,000,000 $2,000,000
A		AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	57SBAAV2615	11/01/10	11/01/11	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000 $ $ $
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
A		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $ 10000	57SBAAV2615	11/01/10	11/01/11	EACH OCCURRENCE AGGREGATE	$2,000,000 $2,000,000 $ $ $
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	57WECPE6236	11/01/10	11/01/11	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
C		OTHER Professional Liability	AED1983931111	11/01/10	11/01/11	$5,000,000 per claim $5,000,000 annl aggr.	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
Actual Certificate Will Be Issued Upon the Request of the above Named Insured.

CERTIFICATE HOLDER

****SAMPLE CERTIFICATE****

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Robert Glass and Associates, Incorporated
8625 Ashbury Court
Roseville, CA 95747
Telephone 916.899.5230
www.rga-inc.com

Architecture and Justice Facility Consulting
W. Robert Glass
President

March 1, 2012

Catherine Chan, Vice President
HOK
One Bush Street, Suite 200
San Francisco, CA 94104

RE: REQUEST FOR QUALIFICATION PACKAGE – SECURITY CONSULTING
SAN MATEO COUNTY

Dear Catherine:

Robert Glass & Associates, Inc. is pleased to present the qualifications of our firm, to provide the required security consulting professional services for the San Mateo County Correctional Facility project. The materials on the following pages respond to your requirements in the Request For Qualifications (RFQ).

We have a long history of justice and security planning, and completed projects which brings together a unique qualification combination for this project. Our firm has a history in working on California detention facilities and site projects. Our team offers you:

- National caliber detention security planning expertise
- A long working history of California justice projects
- Locations in Northern California for response to your needs

We are excited about our continued working relationship with you and the rest of the HOK staff. We hope you will look with favor upon our submittal.

Sincerely,
ROBERT GLASS & ASSOCIATES, INC.

W. Robert Glass
President

RGA

REQUEST FOR QUALIFICATION
SAN MATEO COUNTY JAIL
SECURITY CONSULTING
March 1. 2012

COLLABORATIVE INTERDISCIPLINARY SECURITY CONSULTING

San Mateo County, California

Robert Glass & Associates, Inc.
8625 Ashbury Court
Roseville, CA 95747
(916) 899-5230

TABLE OF CONTENTS

INTRODUCTION & HISTORY

INTRODUCTION & HISTORY

ROBERT GLASS & ASSOCIATES, INCORPORATED (RGA) was founded in 1986 as a consulting firm for the justice system (for planning, programming, security consulting and special studies), rather than a firm for the general practice of Architecture. Professional services were initially performed in security consulting and planning for Criminal Justice Facilities. In the mid 1990's, RGA expanded the firm's capabilities to support security consulting, operational planning, threat analysis and vulnerability assessments for all facility types. This expansion provided a balance of criminal justice and building security which supports the complex consulting services demanded on many projects.

Today, RGA has three unique, but interdependent groups. These groups are criminal justice, building security, and planning. In addition to offices in Washington state, RGA is located in Northern California, specifically, the greater Sacramento and Bay Area. RGA maintains professional relationships with specialists in the areas of security electronics design, communications engineering, operational planning and executive protection. These relationships significantly enhance the firm's capability to provide total security and consulting services.

RGA has successfully incorporated a high level of advanced technology to provide responsive information transfer to support projects on a national and global basis. RGA has completed over 395 projects in 29 States, and internationally. Projects completed have exceeded 11 billion dollars in construction costs.

INSURANCE REQUIREMENTS

INSURANCE REQUIREMENTS

Robert Glass & Associates, Inc. can provide the required insurance amounts on a project basis.

DESIGN &
ISP PROCESS

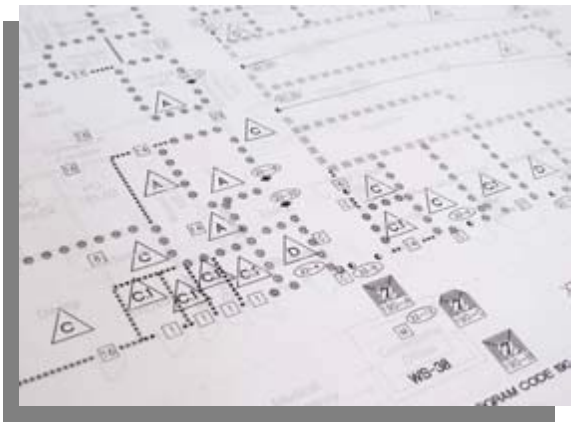
Overview

Over these 30 years of providing professional security planning services Robert Glass and Associates, Inc. (RGA) has established a multidisciplinary approach that integrates operations and budgets into the security planning process and continuously monitors the product against the approved policy directives. In order to achieve the best possible product pre-design planning is provided so that operational and policy outcomes can direct the planning process.

By providing a multidisciplinary team of proven professionals RGA is able to provide a single source of security planning talent without multiple contracts, coordination glitches, and lost efficiency. By streamlining the planning process with a concentration on strong pre-design security planning and thorough documentation of project operational and policy decisions, the project moves forward without delay. Constant updating of project information provides a strong foundation from which decision-makers can base project policy.

Integrated Security Plan

RGA created a unique planning process for their institutional client base, the Integrated Security Plan (ISP). The ISP is a planning and design process that brings project stakeholders to develop and establish security system requirements, related operational policy directives, and staffing into one integrated document.



The ISP was created in the late 1970's as a response to poorly organized institutional planning efforts which resulted in projects that did not meet the operational and budget requirements established by the client. The heart of the problem was a fractured planning process conducted by design professionals who did not possess planning expertise in institutional and security systems. Traditionally the process ignored staffing and operational requirements and focused in on technical and design related solutions. Instead of identifying the operational and security policies early, designers relied upon physical solutions that would in-turn drive operations and security.

A client's understanding of the project's operational and security requirements were approved on a technical engineering and architectural basis. The operational and security requirements were often translated into engineering systems without any analysis of operational impact or compliance with policies and budgets. Inconsistencies with operational and security policies were not identified until bids were received and budgets were compromised or during construction when operations planning identified security inconsistencies.

DESIGN AND ISP PROCESS

The ISP process was created to pull operational and security requirements to the forefront of the planning process. Along with the architectural program documents it provides a clear and concise directive to the architect and engineer as to the specific operational and security policies of the project. As the project develops a continuous evaluation of the operating policies and security requirements takes place. This assures that there are no surprises for the stakeholders.

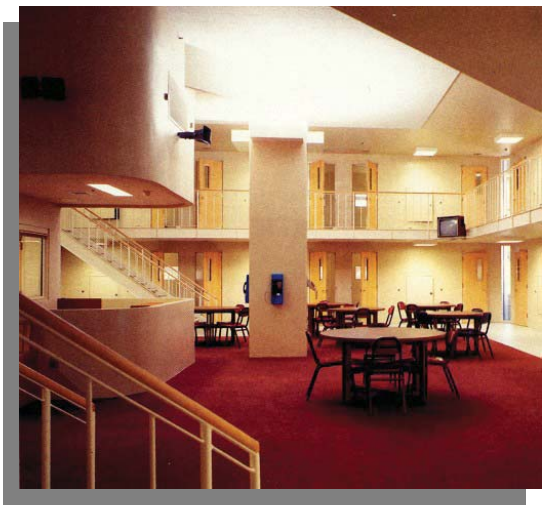
The ISP process involves the project stakeholders so that operational decisions have an organizational basis and understanding by the very staff who will end up operating the facility. In addition, the ISP tracks on-going staffing and operational costs.

RGA believes strongly that people will support what they help create. This understanding of the project planning proves extremely valuable as the operational policies are implemented once occupancy takes place. Again there are no surprises for the stakeholders and policymakers.

The ISP process includes documentation of the following:

- Facility security criteria and planning policy, by specific facility functional area
- Function narratives documenting operational decisions
- Workstation/staffing by shift and position, including really factors
- Outline specifications and detailed performance requirements of all security systems
- Schedules for all openings, including frame, glazing, and security performance requirements
- Operator interface functions for all central and satellite control positions

The final product is a security plan which combines all project components in a highly descriptive document which comprehensively defines the facilities design, in alignment with budget and operating policies. Once the ISP is complete and approved, the architect and engineers will have the functional requirements from which to interpret the technical solutions. This includes architectural, mechanical, electrical, and security disciplines. Most importantly, the ISP's integrated development process allows the client a clear understanding of the project policies and design decisions as well as a constant evaluation of project compliance against operational and security policy requirements. This planning process supports an integrated strategy that marries operations cost and quality to assure superior facility performance.



The following is a sample of an ISP Table of Contents from a previous project:

TABLE OF CONTENTS

TABLE OF CONTENTS - continued

TABLE OF CONTENTS - continued

Program/Architectural Design Synthesis

The Program/Architectural Design Synthesis phase provides a transitional bridge between the narrative and descriptive work, provided in the programming and ISP planning, into physical spaces that create the architecture. This process requires the synthesis of the programming data, the constraints generated by site conditions, and the budget needs assessment to be studied and evaluated in order to determine the best physical security concepts to meet operational needs.

Program/Architectural Design Synthesis requires a high-level of client involvement in order to test various concepts, ideas, and solutions. Many security design concepts that emerge must be investigated and operationally tested to determine the most viable options. The marriage of operations and physical spaces is accomplished in this phase. Program/Architectural Design Synthesis also provides the operational understanding for staff which will translate into policy and training of the facility as it progresses toward operations.

Once the synthesis phase is complete, detailed design can progress forward with a focus on viable solutions. This process allows for detailed design engineering for the selected solution. The owner and operator is able to move forward with a solution that is continuously operationally tested and reviewed for construction, operations, and budget compliance.

Low Voltage Security Electronic (LVSE) System Design Approach:

RGA intends to approach this project as a team effort with the Owner. Through active participation during the ISP development meetings with the Owner, RGA will provide technical guidance regarding the capabilities and limitations of various electronics systems under consideration to meet the parameters established by the ISP. Additionally, RGA will assist in writing the functional narratives required for each low voltage system control point identified in the ISP. The ISP will provide further definition in the Construction Documents each individual system component, providing wiring diagrams for each component, as well providing riser diagrams, installation details, and specifications for each system architecture.

RGA will provide input to the Owner on the capabilities of local and regional integrators wishing to bid on the specialized low voltage security electronics systems.

Integration with Other Consultants:

Extensive coordination with other consultants for implementation of the LVSE systems will be provided. This will consist of the following:

- Architectural Consultants: Door hardware coordination for electronically controlled doors (either through a Touchscreen Control Panel or Access Control System), ceiling device layouts (for fire alarm, paging speakers, CCTV cameras, personnel duress alarm system zone nodes, etc.), and minimum space requirements and locations for all low voltage security electronics rooms.
- Mechanical Consultants: Heat rejection loads for all low voltage security electronics rooms, interface requirements for cell and shower water system shut-offs, interface requirements for fire alarm systems to plumbing systems.
- Electrical Consultants: Coordination of low voltage security electronics system loads to the facility emergency power system (through dedicated UPS systems), interface to lighting systems for dayroom and cell lighting control, lighting levels for proper operation of CCTV systems, grounding systems to ensure transients, and noise from electrical systems do not interfere with the LVSE systems.
- Elevator Consultants: Coordination of monitoring and control of conveyance systems from specified control points.
- Telecommunications Consultants: Coordination of networking requirements to ensure IT systems are standardized throughout the facility.

Coordination with each discipline will include design meetings and workshops at each document submittal stage (35%, 65%, 95% design submittals, etc.) to ensure the requirements of the LVSE systems are designed by each consultant according to the necessary parameters.

Post-Occupancy Evaluation

- Does it work?
- Is it meeting operational budget goals?
- Are systems efficient and performing as outlined in the engineering?
- Are warranties being honored?

These are all questions that need to be continuously evaluated as the facility initiates its operational life cycle. RGA has found that early attention to these operational issues through a Post-Occupancy Evaluation will instill a systematic evaluation process that will determine operational success. A continued evaluation of facility performance will provide a management environment of continuous improvement. This will create a bridge to the annual budgeting process and provide the platform to improve institutional performance.

PROJECT INFORMATION MATRIX

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	Project Information										Location			Delivery		Teaming Experience				Comments *(include any additional key info you would like us to know about this project - please be brief!)*
	Year of Completion	**Construction Cost** *(in $Millions)*	**Gross Area** *(in square feet)*	**No. of Beds (Design Capacity)**	**Direct Supervision**	**No. of Building(s)**	**No. of Storey(s)**	**LEED Certification** *(None, Certified, Silver, Gold or Platinum)*	**BIM Usage** *(answer yes if a design model was created for coordination and deliverable)*	**New Facility - Full Service Design** *(not part of TI project)*	**Redwood City (RWC)**	**San Mateo County (SMC)** *(if not in RWC)*	**State of CA** *(if not in RWC/SMC)*	**CM at Risk**	**Design-Build**	**HOK**	**Hensel Phelps**	**McCarthy**	**Sundt-Layton**	
Maricopa County Durango Juvenile Facility	2002	$26	264,265	220	Yes	2	2/5	Silver		Yes										Prime Contract: CannonDesign
Benton County Justice Center	2002	$31	287,000	700	Yes	1	5			Yes										Prime Contract: Ohashi-Augier
Pitchess Detention Facility-New Jail Planning	2007	$80	140,000	704	Yes	3	2			Yes			Yes							Prime Contract: Parsons
Colorado State Penitentiary Expansion	2008	$87	705,801	948		5	4			Yes										Prime Contract: CSNA
Washoe County Detention Center-Phase II	2008	$26	48,908	144	Yes	1	2			Yes										Prime Contract: GM, LLC
Men's Minimum Camp	2008	$25	112,000	626	Yes	9	1			Yes										Prime Contract: GM, LLC
Southern Nevada Women's Correctional Center	2008	$41	55,000	172	Yes	2	1			Yes										Prime Contract: KGA Architecture
Skagit Valley Community Justice Center	2009	$154	250,000	708	Yes	1	2			Yes				Yes						Prime Contract: Architects Rasmussen Triebelhorn
Indian Springs Prison, Prison 8	2010	$200	513,525	624	Yes	17	1			Yes				Yes					Yes	Prime Contract: KGA Architecture
Clark County Regional Detention Facility	2011	$110	350,000	1,000	Yes	3	2			Yes				Yes	Yes					Public-Private Partnership
CSP-SAC Treatment Building	2012	$28	45,000	N/A		1	1	Silver	Yes	Yes			Yes							Prime Contract: CannonDesign
DeWitt Nelson Conversion Project	2013	$380	252,311	1,133	Yes	21	1	Silver	Yes	Yes			Yes		Yes	Yes	Yes			
California Health Care Facility Stockton - Criteria Architect	2013	$907	1,230,308	1,742	Yes	36	1	Silver	Yes	Yes			Yes		Yes	Yes	Yes	Yes		
California Prison Receivership	2013	$3.8B	7,950,481	10,000	Yes		1	Silver	Yes	Yes			Yes		Yes	Yes	Yes	Yes		

RESUMES

W. ROBERT GLASS

President – Sacramento Office

Bob is a nationally recognized consultant and innovative leader for the programming, conceptualization, design and functional planning of justice system facilities.

Education

Bachelors of Architecture – University of Idaho

Professional Registrations & Affiliations

- *American Correctional Association (ACA)*
- *Washington Correctional Association (WCA*
- *American Institute of Architects (AIA)*
- *American Jail Association (AJA)*
- *American Society for Industrial Security (ASIS)*
- *Design- Build Institute of America (DBIA)*
- *International Corrections and Prisons Association (ICPA)*
- *Certificate NCARB, Licensed Architect in, Nevada and Washington*

Founder and president of ROBERT GLASS & ASSOCIATES, INC.

His architectural experience started with the firm of Walker/McGough et al. (including four years as principal for the firm's Justice Group), which extended from 1979 to 1986. He has been continuously involved in planning and design of justice system facilities since 1979. This experience has covered projects in 29 states and internationally, including facilities in all degrees of custody for adult men and women, juveniles, and inmates with special needs.

In addition, he has obtained a national reputation for operational planning, programming, conceptualization and functional planning, design, documentation and application of security systems, materials and technology used within justice system facilities. His ties to justice facilities planning, design and security consulting are strengthened by his involvement in professional organizations such as the American Correctional Association, as well as his active participation as a speaker for conferences and organizations related to the justice system.

Bob has extensive experience in research and design against terrorist threats, which involves hardened materials, site selections, minimizing explosive site locations, traffic barriers, etc. In 2004, he received certification of completion of the Government Conference on Global Terrorism in Washington, D.C.

Sample Projects

- *Alhambra Reception & Treatment Center, Phoenix, Arizona*
- *Arizona State Prison Complex-Douglas; Douglas, Arizona*
- *Arizona State Prison Complex-Perryville, Security Systems Modifications; Goodyear, Arizona*
- *Durango Juvenile Courts Building, Maricopa County; Phoenix, Arizona*
- *Durango Juvenile Detention Facility, Renovation & Expansion, Maricopa County; Phoenix, Arizona*
- *LaPaz County Jail, Renovation/Upgrades; Parker, Arizona*
- *Maricopa County Estrella Jail, Female & Juvenile Facility; Phoenix, Arizona*
- *Southeast Juvenile Detention Facility, Renovation & Expansion, Maricopa County; Mesa, Arizona*
- *Southeast Juvenile Courts Building Renovation*
- *Renovation & Expansion-Maricopa County; Mesa, Arizona*
- *Pima County Adult Detention Center, Medium Security Addition; Tucson, Arizona*
- *Pima County Adult Detention Center, Security Renovations & Control Upgrade; Tucson, Arizona*
- *Pima County Juvenile Courts Center, Additions & Alterations; Tucson, Arizona*
- *Residential Juvenile Treatment Facility, Maricopa County; Phoenix, Arizona*
- *California Health Care Facilities, California Prison Health Care Receivership Corp., Sacramento, CA*
- *Nevada County Jail, Planning/Programming Assistance, Nevada City, CA*

W. ROBERT GLASS
REFERENCES

J. Clark Kelso, Federal Receiver
California Prison Receivership
501 J Street, Suite 100
Sacramento, CA 95814
(916) 425-1319

Michael Smith, AIA
CannonDesign
1901 Avenue of the Stars; Suite 175
Los Angeles, CA 90067
(310) 229-2700

Jeff Goodale, Senior Vice President
HOK
One Bush Street, Suite 200
San Francisco, CA 94104
(415) 243-0555

Terence J. Melby, AIA
GML Architects, LLC
1575 Delucchi Lane, Suite 120
Reno, Nevada 89502
(775) 829-8814

STEVE KEETER
Senior Project Manager

Education
Bachelors of Arts – Management
St. Mary's College, California

Steve Keeter has spent the last twenty-five years in institutional construction planning and management.

Mr. Keeter's consulting work is hands-on and his experience brings a breadth of knowledge for institutional planning, design, and construction issues. His understanding of these issues provides a basis for services that includes needs assessment, analysis, planning, programming, management and problem solving.

He has directed and managed jobs of all sizes from inception through completion. Specializing in public sector planning construction, Mr. Keeter has developed an impressive set of job skills which has a proven record of delivering projects on time and on budget. In addition to his planning and construction skills

Mr. Keeter has authored several successful grant applications at both the federal and state level. He possesses an excellent understanding of current building and development regulations as well as federal and state environmental laws.

Sample Construction & Planning Projects

- *California Prison Receivership: Site investigation, operation program development through design phase.*
- *San Joaquin County Sheriff – Operational Center, Jail Construction: Principal planning, design and construction manager.*
- *San Joaquin General Hospital Replacement Program: Design and construction manager.*
- *Health Plan of San Joaquin: Principal planner, design and construction manager, $12 million corporate headquarters building.*
- *San Joaquin County Mental Health Department Expansion: Principal planner, design and construction manager, $18 million mental health facility.*
- *Clark County Nevada Courts Expansion Project*
- *Kings County Washington Jail Expansion Project*
- *Mary Graham Children's Emergency Shelter*
- *Lodi, California Municipal Court Expansion*
- *San Joaquin County California Public Health Replacement Project*
- *San Joaquin County California Agricultural Center*
- *San Joaquin County California Department of Emergency Services*
- *Yolo County California Jail Project*

STEVE KEETER
REFERENCES

John Weber, AIA - Managing Partner
Dreyfus and Blackford Architects
3540 Folsom Boulevard
Sacramento Ca 95816
(916) 453-1234

John Tuttle, Engineering/Construction Consultant
9284 Bay Head Court
Elk Grove, Ca. 95758
(916) 296-4844

Dave Runnels, Undersecretary Operations – Correctional Health Care
501 J Street, Suite 100
Sacramento, CA 95814
(916) 323-2901

ROBERT PENNELL, P.E.
Low Voltage
Security Consultant

Education
Bachelors of Science - Electrical Engineering
University of Delaware

Professional Registrations & Affiliations

- *Professionally registered in AZ, CA, ID, MT, NV, NM, OR, VA, WA*
- *American Corrections Association (ACA)*
- *Building Industry Consulting Service International (BICSI)*
- *National Council of Examiners for Engineering and Surveying (NCEES)*

For over 23 years, Robert C. Pennell has successfully completed challenging assignments for new construction, renovations and remodels of existing facilities, and studies in numerous facilities for educational, commercial, institutional, correctional, corporate, government, and military facilities.

Mr. Pennell has worked on numerous projects for city, county, and state agencies which required new, upgraded, or renovated electrical, lighting, or low voltage electronics systems.

Mr. Pennell is experienced in all phases of electrical and low voltage electronics design including load analysis, medium voltage distribution, lighting, telecommunications, life safety, and low voltage electronic control systems. He has been lead engineer and project manager of electrical and low voltage electronics systems for commercial, institutional, light industrial, military, and justice facilities. Mr. Pennell has extensive experience in code, energy and suitability evaluations of existing electrical and security electronics systems.

Mr. Pennell has extensive experience designing PLC/SCADA systems for correctional projects. Rob's experience in these facilities includes designing low voltage security electronics system including the following components: Hardwired and Touchscreen control panels; Relay logic, discreet logic, and PLC control systems; CCTV systems including digital and network video storage systems; Local and Campus intercom and paging systems; Access control systems; Perimeter detection systems; Duress alarm systems; Integration of field systems and devices to the PLC/SCADA system including Access Control, CCTV, Intercom and Paging, Perimeter Detection, Cell and Shower Water Control, Elevator, and Lighting Control Systems.

Sample Project Experience

- *Ada County Jail, Boise, Idaho.*
- *Airway Heights Correction Center, Multiple Projects, Airway Heights, WA*
- *Anchorage Courthouse, Anchorage, AK*
- *California Health Care Facility, Stockton, CA*
- *DeWitt Nelson Conversion, Stockton, CA*
- *Carbon County Jail, Price, UT*
- *Chehalis Public Safety Building, Chehalis, WA*
- *Chelan County Juvenile Facility, Wenatchee, WA*
- *Donald E. Long Juvenile Detention Facility, Phase III, Portland, OR*
- *Douglas County Juvenile Detention Facility, Roseburg, OR*
- *Elmwood Correctional Facility, Milpitas, CA*
- *Grant County Jail, Ephrata, WA*
- *Grant County Juvenile Facility, Ephrata, WA*
- *High Desert State Prison, Prison 8, Perimeter Security System, Indian Springs, NV*
- *Kitsap County Youth Services Facility, Juvenile Detention and Administrative Facility, Port Orchard, WA*
- *King County Correctional Facility, Seattle, WA*
- *Lane County Detention Facility, Eugene, OR*
- *Martin Hall Renovation, Multi-County Juvenile Detention Facility, Medical Lake, WA*
- *Missoula County Detention Center, Missoula, MT.*
- *North Idaho Juvenile Facility, Lewiston, ID*
- *Okanogan County Jail, Multiple Projects, Okanogan, WA*
- *Oregon Youth Authority, Multiple Projects, Statewide, OR*
- *Snohomish County Correctional Center, Booking Area Remodel, Everett, WA*
- *Southern Nevada Women's Correctional Center, Las Vegas, NV*
- *Southwest Montana Multi-Jurisdictional Detention Center, Anaconda, MT*
- *Spokane County Jail, CCR Remodel, Spokane, WA*
- *Sterling Correctional Facility, Phase I/III, Sterling, CO*

CAMERON S. GLASS
Security Consultant

Education
Bachelor of Marketing,
Eastern Washington University

Bachelor of Business Administration,
Eastern Washington University

Professional Registrations & Affiliations

- *American Society for Industrial Security (ASIS)*

Cameron Glass has been with Robert Glass & Associates for 11 years and has served on projects in the correctional, detention, and public security areas.

His experience and knowledge of current technological advances in devices and equipment used in facilities and how they interact with each other in facility systems make him a great addition to any project.

His expertise is in information systems technology, project planning, strategic planning, systems analysis and troubleshooting, and quality control. He is knowledgeable in software development, requirements analysis, and database design. Cameron has served as competent liaison between management, clients, and personnel.

He has been involved in planning and design of justice system facilities with Robert Glass & Associates since 2000.

General Security Experience

- *California Health Care Facility; Stockton, CA*
- *Legislative Building Security Implementation; Olympia, WA*
- *Colorado State Penitentiary Expansion Close Custody Complex; Canon City, CO*
- *Department of Health/Public Health Lab Security Study; Shoreline, WA*
- *Legislative Building Renovation Security Consulting; Olympia, WA*
- *Douglas County PUD #1 Hdqrt. Building Expansion Security Study; Waterville, WA*
- *Duval County Courthouse Security Planning & Consulting, Jacksonville, FL*
- *Eastern Washington University Security Master Planning, Cheney, WA*
- *Psychiatric Services Unit/Outpatient Services-II; Folsom, CA*
- *Pullman – Moscow Regional Airport Security Master Plan; Pullman, WA*
- *Pullman – Moscow Regional Airport Security Hardware & Gate Package, Pullman, WA*
- *State of Washington Capitol Campus Personal Services-Security Consulting, Olympia, WA*
- *Colorado Territorial Correctional Facility – ISP; Canon City, CO*
- *Colorado State Penitentiary Expansion; Canon City, CO*
- *State of Washington Capitol Campus Governor's Office Relocation; Olympia, WA*
- *Benton County Justice Center; Kennewick, WA*
- *Capitol Campus Security State of Washington; Olympia, WA*
- *Capitol Campus Security Governor's Mansion Security Updates; Olympia, WA*
- *Nez Perce County Jail; Lewiston, ID*

MARGRET RIGGIN, MCAS
Project Administration

Professional Registrations & Affiliations

- *Microsoft Certified Application Specialist – Master (MCAS)*
- *Project Management Institute (PMI)*

Margret Riggin has extensive experience in project administration and project management, specializing in land development land use planning.

California Health Care Facility – Stockton, CA
As part of the project management team Mrs. Riggin performed project administration support. Mrs. Riggin provided program and construction management services for the California Health Care Receivership Program. Mrs. Riggin assisted in the operations management of the project Transition Activation Operations, Owners Group, Target Value Design, and Prototype Development phases of the program in addition to providing coordination support to planning, design, and construction planning teams.

Various Residential Subdivisions – Northern California
As a land development project manager, Mrs. Riggin managed residential land development and forward planning projects for a Northern California development builder. Mrs. Riggin managed project consultants, subcontractors, and utility companies for project planning and approval, conducted project land use research, and coordinated with various jurisdictional agencies to ensure compliance and approval of projects.

Groundwater/Soil Remediation Project Administration – California
Mrs. Riggin managed the project administration of a statewide quarterly groundwater and soil monitoring and remediation program for a major oil corporation. This program involved 24 remediation/monitoring project sites across the state, with 2 sites in Nevada.

Residential Planning Projects – South Bay Area, CA
Mrs. Riggin managed residential planning projects in the greater south bay area, providing coordination with public and government agencies for project processing and approval. Mrs. Riggin also managed permit processes, subcontractors and designers.

Operations Resource Management, USAF – Tucson, AZ
Mrs. Riggin served as a proud member of the United States Air Force as an Assistant Non-Commissioned Officer in Charge for a Tactical Fighter Training Squadron, assisting 250 flying personnel in weapons systems education and essential administrative flying operations.

CHRISTOPHER M. SHELDON
PROJECT MANAGER
RCDD/NTS SPECIALIST

Education

Associates of Arts
Business Administration
Everett Community College

International Business,
Accounting
Western Washington University

Professional Registrations & Affiliations

- *CommScope Systimax Specialist Consultant*
- *Building Industries Consulting Service International (BICSI)*
- *Registered Communications Distribution Designer (RCDD)*
- *Network Transport Systems Specialist (NTS)*

With over 20 years of industry experience, Christopher Sheldon utilizes his ability to discern safety, reliability, and project schedule and design objectives to develop integrated telecommunications systems that support a multitude of operational and security systems.

In Mr. Sheldon's approach, he addresses the specific system requirements to uphold various levels of security, taking into account the operating environment and coordination requirements of a diverse group of stakeholders.

Mr. Sheldon's ability to integrate all of these factors into solutions that can be implemented in the field has led to significant capital projects for agencies throughout Washington, California and Alaska, as well as nationwide.

Sample Project Experience

- *California Health Care Facility; Stockton, CA*
- *State of Alaska, Department of Corrections, Goose Creek Correctional Center, Design-Build & Technology Implementation Planning; Wasilla, Alaska*
- *State of Washington Department of Corrections Washington State Penitentiary (features 1891 construction) South Close Expansion - LEED® Silver Certified 500-bed Campus Expansion & Kitchen Addition*
- *Coyote Ridge Correctional Complex, Medium (Custody) Campus Expansion - LEED® Gold Certified RFP Bridging Documents & Construction Administration Support*
- *Clallam Bay Corrections Center, (Campus-wide) Telecommunications Infrastructure Replacement Project*
- *South Puget Sound Community College. 2006 Telecommunications Master Plan; Olympia, Washington*

PROJECT LISTING
DIRECT SUPERVISION FACILITIES

PROJECT LISTING – DIRECT SUPERVISION FACILITIES

The National Institute of Corrections has published significant documents on the philosophy, expectations and benefits of "direct management" and podular designs for detention facilities. Many new jails and prisons are using the direct management approach resulting in an emerging design history and expertise.

RGA has significant and very recent experience as a team member in the conceptualization, operational, and security planning for new direct management detention and correctional facilities. These facilities are:

- Airway Heights Corrections Center; Airway Heights, WA (1,024 beds)
- Alaska Psychiatric Hospital; Anchorage, AK (158 beds)
- Benton County Justice Center; Kennewick, WA (70 beds)
- California Health Care Facility; Stockton, CA (1,722 beds)
- Clark County Detention Center Expansion & renovation (1,372 beds)
- Clark County Regional Jail; Las Vegas, NV (952 beds)
- DeWitt Nelson Conversion; Stockton, CA (1,133 beds)
- Estrella Jail, Maricopa County; Phoenix, AZ (400 beds)
- Elmwood Correctional Facility, Santa Clara County; Milpitas, CA (3,024 beds)
- John Zunino Operations Center and Jail Complex, San Joaquin County; French Camp, CA (1,256 beds)
- Lynwood Regional Justice Center, Los Angeles County; Lynwood, CA (1,124 beds)
- Maricopa County Durango Juvenile Facility; Phoenix, AZ (220 beds)
- McNeil Island Corrections Center; McNeil Island, WA (1,280 beds)
- Nevada Men's Minimum Facility; Indian Springs, NV (626 beds)
- Nez Perce County Jail Planning; Lewiston, ID (152 beds)
- Northeast King County Minimum Security Facility; North Bend, WA (400 beds)
- Oshkosh Correctional Institution; Oshkosh, WI (400 beds)
- Racine Correctional Institution; Sturtevant, WI (600 beds)
- Substance Abuse Treatment Facility, California Department of Corrections; Corcoran, CA (1,056 beds)
- Washoe County Detention Expansion-Phase I; Reno, NV (256 beds)
- Washoe County Detention Expansion-Phase II; Reno, NV (144 beds)
- West County Justice Center, Contra Costa County; Richmond, CA (576 beds)
- Wildwood Correctional Center; Kenai, WA (500 beds)
- Women's Minimum Facility; Carson City, NV (384 beds)

Bob Glass by past experience (as a Justice Group principal for Walker/McGough/Foltz/Lyerla Architects and Engineers-WMFL), was also a team member for the operational security planning of the following direct management facilities:

- El Paso County Criminal Justice Center; Colorado Springs, CA (576 beds)
- Fairbanks Youth Facility; Fairbanks, AK (48 beds)
- Hennepin County Juvenile Center; Minneapolis, MN (51 beds)
- Housing Addition-Ohio Reformatory for Women; Marysville, OH (288 beds)
- Madera County Jail; Madera, CA (296 beds)
- Menomonee Valley Correctional Institution; Milwaukee, WI (450 beds)
- McLaughlin Youth Center-Closed Unit Treatment Unit; Anchorage, AK (24 beds)
- Portland Justice Center; Portland, Or (430 beds)
- Pima County Adult Detention Center-Medium Security Addition; Tucson, AZ (300 beds)

- Santa Clara County Main Jail; San Jose, CA (720 beds)
- Snohomish County Detention Center; Everett, WA (337 beds)
- Spokane County Detention Center; Spokane, WA (420 beds)

Design and Operational Issues - The direct management, podular design facilities listed above comprise over 23,000 beds and provide a wide-range of experience in direct management planning and design. This experience indicated a number of planning issues:

1) ***Policy and executive leadership*** must exist to affect a direct management plan, including enthusiasm and understanding by the line staff. To affect this, the staff should be trained and consistently represented at the operational and security system planning meetings. This is particularly true at the sergeant level in many jurisdictions. While the consultant's experience with direct management plans and designs can help and/or improve staff acceptance, such experience must be reinforced by Policy to be effective.

2) ***Direct management philosophy***, though readily apparent in "inmate residence pods" must influence the total detention/correction facility design and operational plan. It is not appropriate to believe that direct management occurs only in the housing components. For instance, direct management needs to start at the intake function and carry through with the total inmate and staff service delivery systems. It's a way of life in the newest direct management facilities.

PROJECT LISTING
ALL JUSTICE FACILITIES

Alaska

- Alaska Psychiatric Institute
  Physical Security
  Recommendations
  Anchorage, Alaska

- Alaska Psychiatric Institute
  Anchorage, Alaska

- Cook Inlet Pretrial Facility
  CCTV System Upgrade
  Anchorage, Alaska

- Cook Inlet Pretrial Facility
  Central Control Upgrade
  Study
  Anchorage, Alaska

- Fairbanks Correctional
  Center
  Control Room Upgrades
  Fairbanks, Alaska

- Fairbanks Youth Facility
  Master Plan
  Fairbanks, Alaska *

- Fairbanks Youth Facility
  Physical Security Audit
  Fairbanks, Alaska

- Hiland Mountain
  Correctional Center
  Electronic Upgrade Study
  Eagle River, Alaska

- Johnson Youth Facility
  Physical Security Audit
  Juneau, Alaska

- Lemon Creek Correctional
  Center
  Perimeter Security Study
  Juneau, Alaska

- Lemon Creek Correctional
  Center
  Renovation/Expansion
  Juneau, Alaska *

- McLaughlin Youth Center
  Master Plan
  Anchorage, Alaska

- McLaughlin Youth Center
  Closed Treatment Unit
  Addition
  Anchorage, Alaska

- McLaughlin Youth Center
  New Education Building
  Anchorage, Alaska

- McLaughlin Youth Center
  Physical Security Audit
  Anchorage, Alaska

- Nome Youth Center
  Security Upgrades
  Nome, Alaska

- Palmer Correctional Center
  Addition/Alterations
  Palmer, Alaska

- Palmer Correctional Center
  Perimeter Detection
  Replacement
  Palmer, Alaska

- Seward Medical Center
  Security Review
  Seward, Alaska

- Sixth Avenue Annex
  Correctional Center
  Security Audit
  Anchorage, Alaska

- Spring Creek Correctional
  Center
  Perimeter Security
  Upgrades
  Seward, Alaska

- Statewide Security
  Consulting
  Department of Corrections
  Anchorage, Alaska

- Wildwood Correctional
  Center
  Master Plan
  Kenai, Alaska

- Wildwood Pretrial Facility
  Master Plan
  Kenai, Alaska

Arizona

- Alhambra Reception &
  Treatment Center
  Phoenix, Arizona *

- Arizona State Prison
  Complex-Douglas
  Douglas, Arizona

- Arizona State Prison
  Complex-Perryville
  Security Systems
  Modifications
  Goodyear, Arizona *

- Durango Juvenile Courts
  Building
  Maricopa County
  Phoenix, Arizona

- Durango Juvenile Detention
  Facility
  Renovation & Expansion
  Maricopa County
  Phoenix, Arizona

(Arizona continued)

- LaPaz County Jail
  Renovation/Upgrades
  Parker, Arizona

- Maricopa County Estrella Jail
  Female & Juvenile Facility
  Phoenix, Arizona

- Southeast Juvenile Detention Facility
  Renovation & Expansion
  Maricopa County
  Mesa, Arizona

- Southeast Juvenile Courts Building Renovation
  Renovation & Expansion-Maricopa County
  Mesa, Arizona

- Pima County Adult Detention Center
  Medium Security Addition
  Tucson, Arizona *

- Pima County Adult Detention Center
  Security Renovations & Control Upgrade
  Tucson, Arizona

- Pima County Juvenile Courts Center
  Additions & Alterations
  Tucson, Arizona

- Residential Juvenile Treatment Facility
  Maricopa County
  Phoenix, Arizona

California

- Alameda County Jail Santa Rita
  Santa Rita, California *

- Alhambra Police Facility
  Alhambra, California

- Beverly Hills Police Facility
  Beverly Hills, California *

- California Department of Corrections and Rehabilitation
  Health Care Space Standards Update
  Sacramento, California

- California Health Care Facilities
  California Prison Health Care Receivership Corporation
  Sacramento, California

- California Health Care Facility
  Stockton, California

- California Mental Hospitals Security Study
  Atascadero, Patton, Napa State Hospitals

- California Reception Center-Los Angeles
  Los Angeles, California

- California State Prison-Corcoran
  Administrative Segregation Unit
  Corcoran, California

- California State Prison-Corcoran
  Substance Abuse Treatment Facility
  Corcoran, California

- California State Prison-Sacramento
  PSU/EOP Services
  Folsom, California

- California State Prison-Sacramento
  PSU Treatment Building
  Folsom, California

- California State Prison-San Quentin
  Condemned Inmate Complex
  Central Health Services
  San Quentin, California

- California State Prison-San Quentin
  Joint Use Facility
  San Quentin, California

- California Youth Authority Institution Security Entrance Study
  Sacramento, California

- Central Juvenile Hall Housing Expansion
  Los Angeles County
  Los Angeles, California

- Century Regional Justice Facility
  Los Angeles County
  Lynwood, California

(California continued)

- DeWitt Nelson Conversion
  California Department of Corrections and Rehabilitation
  Stockton, California

- East Facility Renovation
  Pitchess Detention Center
  Los Angeles County
  Castaic, California

- El Dorado Co. Administration & Courts Bldg
  Placerville, California

- Elmwood Correctional Facility
  Santa Clara County
  Milpitas, California

- Elmwood Correctional Facility
  Women's Detention Division-Staffing Study
  Santa Clara County
  Milpitas, California

- Elmwood Correctional Facility
  Master Plan Review
  Santa Clara County
  Milpitas, California

- Elmwood Correctional Facility
  CCTV Study/Upgrade
  Santa Clara County
  Milpitas, California

- Glendale Police Facility
  Glendale, California

- Humboldt County Jail Security Study
  Eureka, California

- John Zunino Operations Center and Jail Complex-San Joaquin County
  Stockton, California

- John Zunino Operations Center and Jail Complex-San Joaquin County
  Post Occupancy Assistance
  Stockton, California

- Lompoc Re-Entry Facility Feasibility Study
  Lompoc, California

- Lorenzo E. Patino Hall of Justice
  Sacramento County - Security Review
  Sacramento, California

- Lorenzo E. Patino Hall of Justice
  Sacramento County
  Electronic Security & Control Upgrades
  Sacramento, California

- Los Angeles County Sheriff's Station
  San Dimas, California

- Los Angeles County Sheriff's Station
  Constructability Review
  Athens, California

- Los Angeles County Sheriff's Station
  Palmdale, California

- Madera County Detention Center
  Madera, California *

- Mendocino County Detention Center
  Security Study
  Ukiah, California

- Monterey County Detention Center
  Security Electronic Renovations
  Salinas, California

- Monterey County Courthouse
  Court Holding Renovations
  Salinas, California

- Nevada County Jail Planning/Programming Assistance
  Nevada City, California

- North Facility Expansion
  Pitchess Detention Center
  Los Angeles County
  Castaic, California

- Pitchess Detention Center Expansion Feasibility Study
  Los Angeles County
  Castaic, California

- Richmond Hall of Justice
  Richmond, California

- Richmond Police Facility
  Temporary Facilities-Consulting
  Richmond, California

- Rio Honda Courthouse
  Renovation & Expansion
  El Monte, California

(California continued)

- Sacramento County
  Rio Consumnes
  Correctional Center
  Perimeter Security
  Upgrades
  Sacramento, California

- San Joaquin County -
  Juvenile Hall
  Security & Life Safety
  Study
  Stockton, California

- San Joaquin County -
  Juvenile Hall
  Needs Assessment Study
  Stockton, California

- Santa Clara County Hall of
  Justice
  Security Consulting
  San Jose, California

- Santa Clara County Main
  Jail North
  San Jose, California *

- Santa Clara County Main
  Jail
  Move-In Occupancy
  Assistance
  San Jose, California

- Santa Clara County New
  Courts Facility
  Planning Study
  San Jose, California

- Santa Clara County-Main
  Jail South Renovation
  San Jose, California

- Santa Clara County-Main
  Jail North
  Security Upgrades
  San Jose, California

- Santa Clara County-Main
  Jail North
  Security - Physical
  Plant/Operations Report
  San Jose, California

- Santa Clara County-South
  County Detention Facility
  Planning
  San Jose, California

- San Francisco-Jail
  Replacement #3
  Design Build Plan Review
  San Bruno, California

- Santa Monica Police
  Facility
  Santa Monica, California

- Southwest Justice Center-
  Courts Building
  Murrieta, California

- Southwest Justice Center
  Existing Jail Security
  Electronics Upgrades
  Murrieta, California

- Southwest Justice Center-
  Jail Expansion
  Murrieta, California

- Southwest Justice Center-
  Juvenile Facility
  Murrieta, California

- Sybil Brand Institute-Master
  Planning Study
  Los Angeles, California

- Sybil Brand Institute
  Master Plan Implementation
  Los Angeles, California

- West County Detention
  Facility
  Contra Costa County
  Richmond, California

Colorado

- Buena Vista Correctional
  Complex
  Locking Device Upgrades
  Buena Vista, Colorado

- Colorado Territorial
  Correctional Facility
  Canon City, Colorado *

- Colorado Territorial
  Correctional Facility
  Integrated Security Plan
  Canon City, Colorado

- Colorado Correctional
  Institution's
  Physical Plant Security
  Audit 12 Facilities

- Colorado State Penitentiary-
  Phase II
  Close Custody Complex
  Expansion
  Canon City, Colorado

- Denver Women's
  Correctional Facility
  Phase I, II & III
  Denver, Colorado

- Eagle County Justice Center
  Eagle, Colorado *

(Colorado continued)

- El Paso County Criminal Justice Center
  Colorado Springs, Colorado*

- El Paso County Criminal Justice Center
  Security & Physical Assessment
  Colorado Springs, Colorado

- Jefferson County Detention Facility
  Golden, Colorado *

- Limon Correctional Facility
  Limon, Colorado

- Park County Detention Center
  Renovation & Expansion
  Fairplay, Colorado

- Sterling Correctional Facility
  Phase I, II & III
  Sterling, Colorado

- Trinidad Correctional Facility
  Phase I & II
  Trinidad, Colorado

Florida

- New Duval Courthouse Complex
  Jacksonville, Florida

Hawaii

- Halawa Medium Security Facility
  Aiea, Hawaii *

Idaho

- Idaho State Correctional Institution
  Maximum Security Unit Planning
  Boise, Idaho *

- Idaho Department of Corrections
  Private Prison Security Plan Review
  Boise, Idaho

- Nez Perce County Detention Center
  Planning Study
  Lewiston, Idaho

Kansas

- Lansing Correctional Facility
  Medium Security Addition
  Lansing, Kansas *

- Johnson County Public Safety Building
  Needs Assessment Study
  Olathe, Kansas *

Minnesota

- Hennepin County Juvenile Center
  Minneapolis, Minnesota *

- Olmstead County Adult Detention Center
  Rochester, Minnesota

- Otter Tail County Detention Center
  Fergus Falls, Minnesota

- Minnesota Correctional Facility-Stillwater
  Perimeter Security Study
  Bayport, Minnesota

Missouri

- Franklin County Adult Detention Facility
  Union, Missouri *

- Potosi Correctional Center (Lease/Purchase)
  Mineral Point, Missouri *

Montana

- Butte-Silver Bow Detention Center
  Staffing Study
  Butte, Montana

- Cascade County Jail
  Great Falls, Montana

- Central Reception Unit-Montana State Prison
  Value Engineering Study
  Deer Lodge, Montana

- Flathead County Justice Center
  Kalispell, Montana *

- Gallatin County Detention Center
  Special Consultant
  Bozeman, Montana

- Montana Women's Prison Expansion
  Billings, Montana

(Montana continued)

- Park County Detention Center
  Criminal Justice Planning
  Livingston, Montana

- Pine Hills Juvenile Facility
  Fencing Study & Recommendations
  Miles City, Montana

- Southwest Montana Multi-Jurisdictional
  Detention Center-Facility Planning
  Anaconda, Montana

- Southwest Montana Multi-Jurisdictional
  Detention Center-Facility Planning
  Warm Springs, Montana

- Yellowstone County Sheriff's Department
  Space Planning Consulting
  Billings, Montana

Nevada

- Carson City Public Safety Building
  Master Planning Study
  Carson City, Nevada

- City of North Las Vegas-Housing Expansion
  City of North Las Vegas, Nevada

- City of Reno Courts & Washoe District Attorney Facility
  Reno, Nevada

- Clark County Detention Center
  Expansion & Renovation
  Las Vegas, Nevada

- Clark County Detention Expansion
  Design/Build
  Las Vegas, Nevada

- Clark County Regional Justice Center
  Security Consulting
  Las Vegas, Nevada

- Indian Springs Correctional Center
  Indian Springs, Nevada

- Jean Conservation Camp No. 2 Expansion
  Jean, Nevada

- Locking Systems/Electronic Upgrades
  Nevada State Prison
  Carson City, Nevada

- Locking Systems/Electronic Upgrades
  Southern Desert Correctional Center
  Indian Springs, Nevada

- Ely State Prison
  Ely, Nevada

- Lovelock Correctional Center
  Security Consulting Plan Review
  Lovelock, Nevada

- Proto-Typical Minimum Security Facility
  Planning & Site Selection
  Carson City, Nevada

- Regional Medical Facility
  Northern Nevada Correctional Center
  Carson City, Nevada

- Washoe County Jail Expansion
  Reno, Nevada

- Washoe County Jail Expansion-Phase II
  Reno, Nevada

- Washoe County Jail Space Utilization Study
  Reno, Nevada

- Washoe County Jail Space Utilization Study Update
  Reno, Nevada

- Washoe County Jail Security Study & Audit
  Reno, Nevada

New Hampshire

- New Hampshire State Prison For Men
  Rehabilitation Phase I
  Concord, New Hampshire *

- New Hampshire State Prison For Men
  Rehabilitation Phase II, III & IV
  Concord, New Hampshire *

(New Hampshire continued)

- Hillsborough County Jail
  Planning /Needs Assessment
  Manchester, New Hampshire *

New Mexico

- Western New Mexico Correctional Center
  Grants, New Mexico *

New York

- Staten Island Supreme Courthouse
  Value Analysis Study
  New York, New York

North Dakota

- Burleigh County Detention Center
  Bismarck, North Dakota *
- Mercer County Jail
  Stanton, North Dakota *

Ohio

- Ohio Reformatory for Women
  Housing Unit Addition
  Marysville, Ohio *

Oregon

- Douglas County Juvenile Detention &
  Sheltered Care Facility
  Roseburg, Oregon
- Hillcrest Youth Facility
  Perimeter Security Study/Development
  Salem, Oregon
- MacClarean Youth Facility
  Perimeter Security Study/Development
  Woodburn, Oregon
- MacClarean Youth Facility
  Security Consulting-Max Unit
  Woodburn, Oregon
- Multnomah County Detention Center
  Portland, Oregon *
- Oregon State Correctional Institution
  Visiting Room Upgrades
  Salem, Oregon*
- Oregon State Correctional Institution
  Maximum Security Unit Renovations
  Salem, Oregon
- Oregon State Crime Laboratory
  Forensic Firing Range
  Salem, Oregon
- Oregon State Youth Authority
  Security Consulting - 6 Regional Facilities
  Salem, Oregon
- Wallowa County-Design/Build
  Public Safety Building
  Enterprise, Oregon
- Warm Springs Public Safety Building
  Confederated Tribes of Warm Springs
  Warm Springs, Oregon *

South Dakota

- Pennington County Criminal Justice Center
  Rapid City, South Dakota *

Texas

- Bexar County Adult Detention Center - Annex
  Security Consulting/Plan Review
  San Antonio, Texas
- Bexar County Adult Detention Center
  Security Consulting
  San Antonio, Texas
- Bexar County Correctional Facility
  Security Programming Consulting
  San Antonio, Texas
- Bexar County Secure Juvenile Correctional Treatment Center
  Security Programming Consulting
  San Antonio, Texas
- Bexar County Juvenile Detention Center
  Alterations and Additions
  Security Programming Consulting
  San Antonio, Texas

(Texas continued)

- Bexar County Juvenile Courts
  Renovation & Expansion
  Security Programming Consulting
  San Antonio, Texas

Utah

- Central Utah Correctional Facility
  Programming & Security Consultant
  Gunnison, Utah

- Central Utah Correctional Facility
  Post Construction Audit
  Gunnison, Utah

- Central Utah Correctional Facility
  Keying System Study
  Gunnison, Utah

- Central Utah Correctional Facility
  Pre-Bid Detention Package
  Gunnison, Utah

- Central Utah Correctional Facility
  Phase I - Expansion
  Gunnison, Utah

- Construction Alternative Analysis
  Utah Department of Corrections
  Salt Lake City, Utah

- Davis County Law Enforcement Center
  Farmington, Utah

- Lease/Purchase Women's Multi-Custody Facility Analysis
  Utah Department of Corrections
  Salt Lake City, Utah

- Pre-Release/Parole & Probation Violator Center Design/Build/Operate RFP
  Promontory Correctional Facility
  Draper, Utah

- Privatization Study
  Utah Department of Corrections
  Salt Lake City, Utah

- Utah State Prison-South Point Facilities
  Phase I Expansion
  Draper, Utah

- Utah State Prison-South Point Facilities
  Phase I - Supplemental Projects
  Draper, Utah

- Utah State Prison-South Point Facilities
  Minimum Visiting/B&D Cellblock Remodel
  Draper, Utah

- Utah State Prison-South Point Facilities
  Orientation & Training Session - Phase I
  Draper, Utah

- Utah State Prison-South Point Facilities &
  North Point Facilities - Key Control Study
  Draper, Utah

- Utah State Prison-South Point Facilities
  Unita 5 - Locking Device Renovation
  Draper, Utah

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- Utah State Prison-South Point Facilities
  Security Glazing & Tower Improvements
  Draper, Utah

- Utah State Prison-North Point Facilities
  Perimeter Security System Upgrades
  Draper, Utah

- Utah State Prison-South Point Facilities
  Perimeter Security System Upgrades
  Draper, Utah

- Utah State Prison-South Point Facilities
  144 Bed Expansion (Unita #4)
  Draper, Utah

- Utah State Prison-South Point Facilities
  144 Bed Expansion (Unita #4A)
  Draper, Utah

Virginia

- Beaumont Learning Center
  Commonwealth of Virginia
  Powhatan, Virginia *

Washington

- Airway Heights Corrections Center
  Airway Heights, Washington

- Asotin County Public Safety Building
  Needs Assessment Study
  Asotin, Washington *

- Benton County Justice Center
  Renovation and Expansion
  Kennewick, Washington

- Benton-Franklin Juvenile Facility
  Kennewick, Washington

- Bothell Public Safety Center
  Security Electronics Contractor-RFQ
  Bothell, Washington

- Camp Outlook Juvenile Boot Camp
  Expansion & Renovation
  Connell, Washington

- Chelan County Regional Jail
  Wenatchee, Washington *

- Chehalis Public Safety Building
  Chehalis, Washington

- Clallam Bay Corrections Center
  Clallam Bay, Washington *

- Clallam Bay Corrections Center
  Key Control Study
  Clallam Bay, Washington

- Clallam County Correctional Facility
  Facility Remodel/Expansion Study
  Port Angeles, Washington

- Clallam County Correctional Facility
  Security Controls/Control Room Upgrades
  Port Angeles, Washington

- Clallam County Courthouse
  Security Study & Upgrades
  Port Angeles, Washington

- Clallam County Courthouse
  Security Upgrades - Phase II
  Port Angeles, Washington

- Clallam County Juvenile Detention Center
  Security Upgrades
  Port Angeles, Washington

- Clallam County Correctional Facility
  Renovations-Phase I
  Port Angeles, Washington

- Clallam County Correctional Facility
  Renovations-Phase II
  Port Angeles, Washington

- Clallam County Correctional Facility
  Master Plan for Expansion & Renovation
  Port Angeles, Washington

- Department of Corrections
  Perimeter Security Study-8 Prison Sites
  Olympia, Washington

- Grant County Public Safety Building
  Ephrata, Washington *

- Island County Jail
  Coupeville, Washington*

- Juvenile Rehabilitation Administration
  Camp Outlook Juvenile Boot Camp
  Planning Study
  Connell, Washington

- King County CASP
  Security Planning Consulting
  Seattle, Washington

- King County Courthouse
  Master Planning Security Consulting
  Seattle, Washington

- King County Courthouse
  Entrance Security Consulting
  Seattle, Washington

- King County Correctional Facility
  Security & Electronic Controls Renovation
  Seattle, Washington

(Washington continued)

- King County Correctional Facility
  Alder Unit Renovation Consulting
  Seattle, Washington

- Kittitas County Corrections Center
  Ellensburg, Washington *

- Lincoln County Needs Assessment
  Sheriff's Office & Jail Expansion
  Davenport, Washington

- Lincoln County Communications Study
  Project 25 Interoperability Consulting
  Davenport, Washington

- Martin Hall Juvenile Facility
  Facility Planning & Project Management
  Medical Lake, Washington

- Martin Hall Juvenile Facility
  Private Operator RFP & Selection
  Medical Lake, Washington

- Martin Hall Juvenile Facility
  Video Conferencing System RFP & Selection
  Medical Lake, Washington

- McNeil Island Corrections Center
  Master Plan / Facility Program Analysis
  McNeil Island, Washington

- McNeil Island Corrections Center
  Master Plan Implementation
  McNeil Island, Washington

- Monroe Correctional Complex
  Reformatory Phase I Improvements
  Monroe, Washington *

- Monroe Correctional Complex
  Reformatory Visiting Room Renovations
  Monroe, Washington *

- Monroe Correctional Complex
  Heath Care - BEST Study
  Monroe, Washington

- Northeast King County Minimum Security Facility
  North Bend, Washington

- Okanogan County Jail
  Okanogan, Washington *

- Okanogan County Jail
  Remodel & Expansion - Phase I
  Okanogan, Washington

- Okanogan County Jail
  Remodel & Expansion - Phase II
  Okanogan, Washington

- Pacific County Jail
  South Bend, Washington *

- Pullman Police Facility
  Pullman, Washington *

- Snohomish County Detention Center
  Everett, Washington *

- Snohomish County Work Release
  Everett, Washington *

- Special Offender Center
  Monroe, Washington *

- Special Commitment Center
  Value Analysis Team
  McNeil Island, Washington

- Spokane Co. Detention/Correction Facility
  Spokane, Washington *

- Stafford Creek Corrections Center
  Lawsuit Consulting
  Aberdeen, Washington

- Stevens Co. Detention/Corrections Facility
  Needs Assessment Study
  Colville, Washington

- Walla Walla County Jail
  Walla Walla, Washington *

- Washington Corrections Center for Women
  Perimeter Security Study
  Gig Harbor, Washington *

- Washington Corrections Center for Women
  Master Planning & Facility Program Analysis
  Gig Harbor, Washington

(Washington continued)

- Washington Corrections Center for Women
  Central Health Care Facility Value Analysis Study
  Gig Harbor, Washington

- Washington-Population & Facilities Plan
  Olympia, Washington

- Washington Correction Center Perimeter Security Study
  Shelton, Washington *

- Washington State Penitentiary
  Rehabilitation Phases I, II, & III
  Walla Walla, Washington *

- Washington State Penitentiary
  Intensive Management Unit
  Walla Walla, Washington *

- Washington State Penitentiary
  Emergency Sallyport Consulting
  Walla Walla, Washington

- Washington State Penitentiary
  Key Control Study
  Walla Walla, Washington *

- Washington State Penitentiary
  Medium Security Facility Housing Additions-Design/Build
  Walla Walla, Washington *

- Western State Hospital-Legal Offender Unit
  Security Planning Consulting
  Tacoma, Washington

- Western State Hospital-Legal Offender Unit
  Value Engineering Study
  Tacoma, Washington

- Whatcom County Detention Center
  Bellingham, Washington *

- Whitman County Courthouse
  Master Planning & Improvements
  Colfax, Washington

- Yakima County Detention Center
  Yakima, Washington *

Wisconsin

- Green Bay Correctional Institution
  Rehabilitation Study
  Green Bay, Wisconsin

- Kettle Moraine Correctional Institution
  Perimeter Security Report/Implementation
  Plymouth, Wisconsin

- LaCrosse Law Enforcement Center
  LaCrosse, Wisconsin

- Menomonee Valley Correctional Institution
  Milwaukee, Wisconsin

- Milwaukee County Jail/Criminal Justice Center
  Milwaukee, Wisconsin

- Oshkosh Correctional Institution
  Oshkosh, Wisconsin

- Oshkosh Correctional Institution
  Housing Unit Addition
  Oshkosh, Wisconsin

- Oshkosh Correctional Institution
  Orientation & Training Session
  Oshkosh, Wisconsin

- Racine Correctional Institution
  Sturtevant, Wisconsin

- Wisconsin 10 Year Master Plan
  Department of Corrections
  Madison, Wisconsin

Federal

- Waukesha County Jail Planning Study
  Waukesha, Wisconsin

- Lloyd D. George Federal Courthouse
  Las Vegas, Nevada

- Federal Courthouse
  CM Security Consulting
  Phoenix, Arizona

(Federal continued)

- United States Penitentiary-
  Leavenworth
  Renovation of Cell Houses
  A,C,D,
  Leavenworth, Kansas *

- United States Penitentiary-
  Leavenworth
  Specialized Housing Unit-
  Planning & Design
  Leavenworth, Kansas *

- U.S. Army
  National Guard Readiness
  Center-Phase 3
  Barrigada, Guam

- U.S. Courts Design Guide -
  Work Plan
  Washington D.C.

- Yellowstone Justice Center
  Constructability & Cost
  Review
  Yellowstone National Park
  Mammoth, Wyoming

International

- New Extension for Central
  Jail and Deportation
  Department
  Sulaybiyah, Kuwait

Security/Low Voltage Systems Statement of Qualifications for New San Mateo County Jail

Presented To | Catherine Chan, AIA, HKIA, LEED AP BD+C
Vice President, Justice Group Director
HOK
One Bush Street, Suite 200
San Francisco, CA 94104
415.356.8535
catherine.chan@hok.com

Presented By | Michelle Geckler
Regional Director, Project Development

GUIDEPOST SOLUTIONS
TECHNOLOGY DESIGN CONSULTING

388 17th Street, Suite 230
Oakland, CA 94612
510.250.6243
mgeckler@guidepostsolutions.com

Issue Date | February 29, 2012

GUIDEPOST SOLUTIONS
TECHNOLOGY DESIGN CONSULTING

February 29, 2012

Catherine Chan, AIA, HKIA, LEED AP BD+C
Vice President, Justice Group Director
HOK
One Bush Street, Suite 200
San Francisco, CA 94104
415.365.8535
catherine.chan@hok.com

Re: San Mateo County Jail
Security/Low Voltage Systems Qualifications

Dear Ms. Chan,

Guidepost Solutions LLC's Technology Design Consulting (TDC) division, formerly known as SafirRosetti, is pleased to provide you with our qualifications to provide security and low voltage systems consulting and design services for the new construction of the San Mateo County Jail to be located in Redwood City, California.

Guidepost Solutions TDC specializes in security, fire alarm, audiovisual, and communications infrastructure consulting and design. We provide innovative consulting, design, and management services that balance realistic business needs with industry-best, cost-effective solutions.

We understand that HOK and San Mateo County are in the process of evaluation a number of subconsultants to identify the ones that that will best meet the requirements of this project. We have assembled a team of experienced and knowledgeable design professionals to assist HOK and the County with designing an appropriate and effective security, fire alarm, audiovisual, telecommunications, and acoustical program for the new San Mateo County Jail. Our team offers the following advantages:

- **Experience with Detention Facilities**
  Guidepost Solutions TDC has completed over 120 new and retrofit correctional facility projects, representing over $670 million in construction value. Besides our firm's wealth of experience, another advantage of working with the Guidepost Solutions TDC team is Ray Kolodzieczak, our Detention Team Leader's wealth of experience working in the detention environment. His knowledge of the needs and challenges of detention facilities comes not only from working on detention projects throughout California and Washington, but he also grew up in this environment. His father, Ron Kolodzieczak, is a retired sergeant of 27 years with the Alameda County Sheriff's Department who helped with the opening of both the Santa Rita Jail and the North County Jail facilities.

- **Experience Working Locally**
  Guidepost Solutions TDC team members have worked on detention and public safety facility projects throughout the Bay Area, and our firm is currently working in Redwood City, the jail project site, on Kaiser Permanente's new medical center.

- **Close Proximity to Project Site**
  Our office is less than one hour away from the Sherriff Department and the project site. This means we are able to easily schedule and attend meetings at the Sherriff's offices, the project site, or with any other agencies involved in this project.

- **Experience Working with HOK**
  We have worked with HOK for a number of years and are currently working with them on two projects – Solano County Jail's Claybank Facility and Kaiser Permanente's Redwood City Medical Center.

- **Experience Working with Shortlisted Construction Management Firms**
  We have worked with Sundt Construction and Hensel Phelps on numerous projects. Our Oakland office has worked with McCarthy for over 25 years.

- **BIM Experience**
  Guidepost Solutions TDC has Building Information Modeling (BIM) specialists in our Oakland office, one of our firm's two major design centers. We are currently engaged on three large local projects – CPMC Cathedral Hill Medical Center, Kaiser Redwood City Medical Center, and Solano County Jail – where our security and low voltage systems are being designed using Revit. We recently completed the Construction Documents for the UCSF Mission Bay Medical Center where our security system designs were completed in Revit.

- **LEED Experience**
  We have completed 16 LEED Certified projects representing over 7,000,000 square feet of space and over $ 700 million of construction dollars. In addition, we have a LEED Accredited Professional on staff in the Oakland office.

Thank you again for your consideration of Guidepost Solutions TDC for your security and low voltage systems consulting needs. Please contact me if you have any questions or comments regarding our qualifications package.

Sincerely,

Michelle Geckler
Regional Director, Project Development
Guidepost Solutions Technology Design Consulting

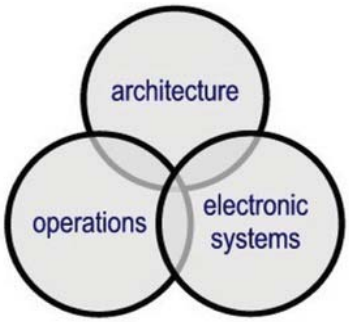
TABLE OF CONTENTS

SECTION I – PROJECT APPROACH

OUR APPROACH TO SECURITY/LOW VOLTAGE SYSTEMS DESIGN

The Guidepost Solutions TDC project managers and designers committed to this project have designed and implemented projects of similar scope for detention, public safety, civic, and justice facilities throughout the Bay Area and the State of California. Our underlying approach is to represent the Owner's best interest by establishing designs and construction packages that leverage best suited products and contractors for the application.

Guidepost Solutions TDC's approach is to provide consulting services in a **proactive and holistic manner** in order to ensure that a comprehensive solution is ultimately achieved. Rather than simply focusing only on technology, our approach addresses all three primary elements of a building program:



- Architectural issues such as space planning, exiting pathing, CPTED, NFPA, barriers and locks
- Operational and regulatory issues such as policies and procedures, staffing, training, and emergency preparedness
- Electronic systems and technology solutions such as card access control, closed circuit television and intercom communications.

This process is then layered with the type of facilities within the client's portfolio and existing technology investment to support various new technologies. At the start of a project we also identify critical infrastructure needs including power, door hardware, technology wall space, and network capacity and latency.

Once we have discovered the level of need for the technology solution and the ability of the client's facility to support new technologies, we embark upon a process to stratify the level of control, monitoring and accountability that will deliver the optimum return on the technology investment.

OUR APPROACH TO COLLABORATIVE DESIGN

At Guidepost Solutions TDC we believe that good relationships and teamwork are the first priority. From the very beginning of the project we make sure that all the team members work collaboratively to establish the project's mission and strategic goals and every risk is managed by the team in the best interest of the project. If a conflict arises we motivate our team to take a positive approach to conflict resolution, to have a clear understanding of the problem, to see the conflict from another person's perspective and to collaboratively look for a solution to the conflict.

We Identify and involve key security stakeholders early in the planning and design process, and keep them informed as the project progresses. As a client-focused firm, we have learned that the key to achieving successful on time and on budget project completion is the involvement of representatives from all stakeholders groups that the project touches. This results in fewer project surprises and protects the project schedule and budget. This approach plus our dedication to always keeping sight of the "big picture" (i.e., standards/best practices, cost, documentation, and maintainability) have been the formula for successful projects.

We Work Closely with the Consultant Team. Our contribution has been measurable in improving the quality of the projects through value engineering such as shared technology infrastructure thus reducing costs and shortening project schedules. The goal is to integrate security and low voltage systems technology with a shared building technology infrastructure. This saves money and also helps "future-proof" buildings by preparing for future change in building technology systems.

OUR PROJECT WORK PLAN

It is our understanding that the project is to provide preliminary design through construction administration services for a detention security electronics system, telecommunication systems, audiovisual systems, and acoustics at the new San Mateo County Jail. T

It is anticipated the Project will include the following phases: *Schematic Design, Design Development and Final Design, and Construction Administration*. Work included is shown in the following scope-of-work:

A. Schematic Design

We will meet with the Sheriff's Department staff, County ITS and Public Works Departments, and other required County Departments to review and verify design concepts and intent. From these meetings, we will develop and submit schematic design level narrative drawings, including alternative design methods, for Owner review. Off-site visits to other facilities may be arranged to allow staff to view how similar control rooms to those proposed in schematic design function in a real world environment. A preliminary design and construction schedule will be developed, including a project cost estimate.

B. Design Development and Construction Documents

Guidepost Solutions will produce systems drawings showing control panel layouts, system block diagrams, and written specifications. All drafting/engineering work will be completed using the Revit model to coordinate low voltage systems space requirements with other design disciplines. Systems drawings will be submitted to the County, as progress printings, for review and approval. Guidepost Solutions TDC will attend coordination meetings during the Design Development and Construction Documents Phase.

We will coordinate our drawings and equipment locations with Architectural, Mechanical, and Electrical disciplines to accommodate the work required for construction of the facility. This project will be in compliance with the 2010 edition of California Building Code, and Title 15 and Title 24 of the California Code of Regulations.

Specifications will identify the material, equipment, and installation requirements for the security and low voltage systems and other required work. Specifications will be developed for each system. The specification sections will be coordinated with Division 0 and 1 of the Bid Documents.

At each progress submittal, the construction cost estimate and the project schedule will be revised to reflect the most current system design. As the system design becomes more refined, it is anticipated that the construction cost estimate will more accurately reflect the actual project cost at the time of bid.

C. Construction Administration/Construction Management

As part of our Construction Administration services, Guidepost Solutions will participate in a pre-bid conference. We will assist in evaluating bid proposals. During construction, we will also review contractor shop drawings and equipment submittals, respond to contractor questions during construction, and attend site meetings during construction and assist in final system acceptance. Upon completion of the project, we will review, reassemble, and resubmit to the county electronic as-built drawings.

Our Construction Administration services will include attending jobsite construction coordination meetings and spot check of as-built drawings for accuracy. Non-technical inspections (safety and health, security, labor compliance, etc.) are not included in our scope. Guidepost Solutions will attend periodic construction progress meetings. Guidepost Solutions will assist in Commissioning of Systems to assure that all equipment is fully operational.

SECTION II – INSURANCE REQUIREMENTS

Guidepost Solutions TDC meets HOK's insurance requirements, as listed in the table below, for the security and low voltage systems services we propose to provide for the San Mateo County Jail project.

HOK Sub-consultants	Professional Liability Requirement
Acoustics/AV	1M
Special Systems (incl. security, communications, building controls, IT)	2M

NOTE: ALL Consultants are also required to carry the following additional insurance:	
Commercial General Liability	2M each/aggregate
Employer Liability	1M / 1M / 1M
Auto	1M
Umbrella	1M

Guidepost Solutions TDC has the following insurance coverage:

- General Liability - $1 million per $2 million aggregate
- Automobile Liability - $1 million
- Worker's Compensation/Employer Liability - $1 million
- Professional Liability - $3 million limit
- Umbrella Liability - $10 million

Please find a sample Certificate of Insurance specimen on the following page.

SOLUINT-01 VIAN

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 2/21/2012

PRODUCER (212) 488-0200
Frenkel & Company
350 Hudson Street, 4th Floor
New York, NY 10014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Guidepost Solutions LLC - Technology Design Consulting
(formerly known as SafirRosetti)
388 17th Street
Oakland, CA 94612

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Hanover Insurance Co.	22292
INSURER B: ACE Property & Casualty	20688
INSURER C: Evanston Insurance Company	35378
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
A		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC	ZHY8959826 01	12/1/2011	12/1/2012	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,0001 $ 1,000,000 $ 10,000 $E PROFESSIONAL $ 1,000,000 $ 2,000,000
A		AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	ZHY8959826 01	12/1/2011	12/1/2012	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
B		EXCESS / UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $ 10,000	M00526654	12/1/2011	12/1/2012	EACH OCCURRENCE AGGREGATE	$ 1,000,000 $ 1,000,000 $ $ $
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N N (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below	WHY9031276-01	1/1/2012	1/1/2013	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
C		OTHER Errors & Omissions	AE821511	12/1/2011	12/1/2012	Each Occurrence/Aggregat	$3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER

Specimen
-

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL _____ DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

SECTION III – PROJECT EXPERIENCE

Guidepost Solutions TDC specializes in the planning and design of new and retrofit detention facilities. Our firm has completed over 120 correctional facility projects, representing over 5 million square feet of space and $670 million of construction value. Below are descriptions of some of our relevant project experience.

Fresno County Juvenile Justice Campus

Fresno, California

Guidepost Solutions TDC provided security design services for the largest state-of-the-art juvenile justice facility in the State of California. Systems designed include: site security, access control, door control and alarm monitoring, CCTV surveillance systems, and intercom system

Project Team Member(s) Involved: Ray Kolodzieczak

COMPLETED DATE

2004

CONSTRUCTION COST

$180 million

PROJECT SIZE

655,030 sq. ft.

1,020 beds

6 buildings

2-storeys

PROJECT DELIVERY

Design-Build

Ventura County Juvenile Justice Center

Ventura, California

Planning and design for a new juvenile courts and detention facility. Security design included door control and door monitoring in detention holding portion of building, card access door control, closed circuit television including recording of all cameras with digital video recorders, building intrusion alarm, wireless help alarm system, cable TV distribution, intercom and public address, and courts audio/video.

Project Team Member(s) Involved: Ray Kolodzieczak

COMPLETED DATE

2004

CONSTRUCTION COST

$40.5 million

PROJECT SIZE

205,327 sq. ft.

420 beds

4 buildings

2-storeys

PROJECT DELIVERY

Design-Build

Washoe County Jan Evans Juvenile Justice Center

Reno, Nevada

Guidepost Solutions TDC provided planning and design for a new juvenile detention facility, including educational and probation wings, with support facilities for expansion of additional 36-bed pod. Design work included door control and door monitoring, intercom and public address, closed circuit television with digital video recorders, programmable logic controllers, control panels (touchscreen in central control and graphic in pods), cable TV distribution, card access control for doors in non-detention areas, and audio/video in courtroom.

Project Team Member(s) Involved: Stan Hultgren

COMPLETED DATE

2005

CONSTRUCTION COST

$25 million

PROJECT SIZE

83,860 sq. ft.

108 beds

1 building

2-storeys

San Francisco Jail #3 Replacement

San Francisco, California

As a subconsultant to the Bridging Documents Architect, Guidepost Solutions TDC was originally contracted to develop a security program for the new jail. Our assignment began with the assessment of several existing San Francisco Jail facilities. From this review we were able to develop recommendations regarding the appropriate security equipment and Central Control requirements for this new facility. Guidepost Solutions TDC was then contracted by the Design-Build Team to fully develop the security systems designs and provide construction administration on this project. Systems designed included Central Control room and control panels, Housing Control stations, door control systems, intercom, CCTV, alarm monitoring, public address, and fence-line video motion detection.

Project Team Member(s) Involved: Stan Hultgren

COMPLETED DATE

2006

CONSTRUCTION COST

$113.5 million

PROJECT SIZE

400,000 sq. ft.

768 beds

3 buildings

2-storeys

PROJECT DELIVERY

Design-Build

King County Correctional Facility

Seattle, Washington

Working on a special consulting team for the King County Office of Management and Budget, Guidepost Solutions TDC provided an expert analysis of security electronic systems and $50 million upgrade project at the KCCF.

As subject-matter expert, Guidepost Solutions TDC provided the basis of design for the security upgrade, including programmable logic controllers, door control, control locations, intercom and emergency systems, and CCTV, as well as operational and staffing elements. We also provided technical expertise and recommendations to the owner and project team, performed cost estimates, and conducted quality assurance inspections.

COMPLETED DATE

2006

CONSTRUCTION COST

$113.5 million

PROJECT SIZE

400,000 sq. ft.

768 beds

3 buildings

2-storeys

PROJECT DELIVERY

Design-Build

Solano County Claybank Jail

Fairfield, California

Guidepost Solutions TDC is providing security electronics and fire alarm systems consulting services as a member of HOK's team for the Claybank Adult Detention Facility Expansion Project located in Fairfield, California. Our scope of work includes an assessment of the existing facility fire alarm, security electronics equipment, and tel/data infrastructure; and design and construction management of the new facility-wide fire alarm, security electronics, and tel/data systems. The original 512-bed project was placed on hold in 2008 after construction documents were completed. It was restarted after a change in scope to a 365-bed project, and is currently in progress.

Project Team Member(s) Involved: Ray Kolodzieczak, David Rickerson

Please find the Detention Project Matrix with these projects on the following page.

COMPLETED DATE

Ongoing

CONSTRUCTION COST

Est. $93 million

PROJECT SIZE

65,150 sq. ft.

365 beds

1 building

2-storeys

PROJECT DELIVERY

Design-Build

TEAMING EXPERIENCE

HOK

Guidepost Solutions Technology Design Consulting

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	Project Information										Location			Delivery		Teaming Experience					Comments *(include any additional key info you would like us to know about this project - please be brief!)*
	Year of Completion	Construction Cost *(in $Millions)*	Gross Area *(in square feet)*	No. of Beds (Design Capacity)	Direct Supervision	No. of Building(s)	No. of Storey(s)	LEED Certification *(None, Certified, Silver, Gold or Platinum)*	BIM Usage *(answer yes if a design model was created for coordination and deliverable)*	New Facility - Full Service Design *(not part of TI project)*	Redwood City (RWC)	San Mateo County (SMC) *(if not in RWC)*	State of CA *(if not in RWC/SMC)*	CM at Risk	Design-Build	Direct Relevant Experience - *Have one or more of your proposed key personnel worked on this project?*	HOK	Hensel Phelps	McCarthy	Sundt-Layton	
Fresno County Juvenile Justice Campus	2004	$180M	655,030	1,020	Yes	6	2	None	No	Yes			Yes		Yes	Yes					Facility is the largest state-of-the-art juvenile justice facility in the State of California.
Ventura County Juvenile Justice Center	2004	$40.5M	205,327	420	Yes	4	2	None	No	Yes			Yes		Yes	Yes					
Washoe County Jan Evans Juvenile Justice Center	2005	$25M	83,860	108	Yes	1	2	None	No	Yes						Yes					Designed door control and monitoring, intercom, public address, CCTV, PLC, control panels, cable TV distribution, access control, and audio/video in courtroom.
San Francisco Jail #3 Replacement	2006	$113.5M	400,000	768	Yes	3	2	None	No	Yes			Yes		Yes	Yes					Completed bridging documents, final design, and construction administration.
King County Correctional Facility	2006	$55M	230,000	1,100	Yes	1	9	None	No												Served as owner's technical representative for total replacement of security and fire alarm systems.
Solano County Claybank Jail (512-bed design)	2008	$58M	Not available	512	Yes	1	2	None		Yes			Yes		Yes	Yes	Yes				Construction documents were completed, but project was halted during bidding phase.
Solano County Claybank Jail	In Progress	$93M	65,150	365	Yes	1	2	None	Yes	Yes			Yes		Yes	Yes	Yes				

ADDITIONAL RELEVANT CORRECTIONAL FACILITY EXPERIENCE

Santa Clara County Juvenile Hall Complex New Housing Facility Phase II

Santa Clara, California

COMPLETED DATE
2004
CONSTRUCTION COST
$20 million
PROJECT SIZE
110,000 sq. ft.
210 beds
3 buildings
4-storeys
PROJECT DELIVERY
Design-Build

Guidepost Solutions TDC provided the Security Electronics design as a subconsultant to the Architect for a major remodel of the Santa Clara County Juvenile Hall. Five of the eight existing housing units were demolished and seven new housing units were constructed in this occupied facility. A PLC-based security electronics system was installed to control the new housing units and interface with devices in the existing housing units. The Central Control Room was remodeled as a separate project during this construction to provide a more ergonomic control environment for control operators and a single control panel for control and monitoring of new and existing equipment in the facility. Guidepost Solutions TDC worked with the County directly on the Construction Administration portion of this project. Total construction cost was $20 million for this 210-bed project. Total Security Electronics for this project was $800,000.

Project Team Member(s) Involved: Ray Kolodzieczak

Whatcom County Adult Detention Facility and Juvenile Detention Facility, Fire Alarm and Security Electronics Systems Upgrade

Bellingham, Washington

COMPLETED DATE
In Progress
CONSTRUCTION COST
$2.4 million
PROJECT SIZE
212 beds
2 buildings
2-storeys

Guidepost Solutions TDC is performing design and construction administration services as the prime design consultant for an upgrade of existing proprietary security electronics systems in the Adult Detention Facility and the Juvenile Hall Facility to SecurePlex proprietary control-based systems with ergonomic, touch-screen-based operator control of facility movement from the Central Control location. Housing unit controls in each building will be updated to be compatible with the new SecurePlex system. The Closed Circuit Television System in each building will be interfaced with the new SecurePlex system to provide Central Control operators with automatic camera call-up upon activation of an associated intercom station. The existing fire alarm system in the adult detention facility will be replaced with a new code-compliant system. Guidepost Solutions TDC is managing the Architect (Freeman Fong Architects), Mechanical Engineer, Structural Engineer, and Electrical Engineer subconsultants who are assisting in the design of a new Central Control Room and structural improvements also included in this project. Estimated construction budget: $2.4 million. Project is currently in the construction phase.

Project Team Member(s) Involved: Ray Kolodzieczak

PROJECT EXPERIENCE WITH HOK

100 First Street Console Remodel
Highland Hospital Acute Tower Replacement – Bridging Documents
Highland Hospital Acute Tower Replacement – Master Plan
Kaiser Redwood City Replacement Hospital*
Paris Regional Medical Center*
Solano County Jail - Claybank Facility*
Solano County Jail Upgrade

PROJECT EXPERIENCE WITH SHORTLISTED CONSTRUCTION MANAGEMENT FIRMS

Projects with McCarthy

Guidepost Solutions TDC has worked with McCarthy for over 25 years.

Kaiser Downey Medical Center
Kaiser Oakland Hospital MOB
Kaiser Oakland Medical Center
Kaiser Stockton MOB
Kaiser Vallejo Medical Center
The Cannery
UCSF Telemedicine Teaching and Learning Center
VA Palo Alto Psychiatric Facility
Woodland Police Facility

Projects with Hensel Phelps

Capitol Area East End Complex
Kaiser Anaheim Medical Center
San Joaquin County Administration Building – 12th & I Street

Projects with Sundt Construction

Porterville Courthouse*
Sierra Vista Hospital

*Project in progress

SECTION IV – PROJECT PERSONNEL

Guidepost Solutions TDC assembles a project team of experienced professionals to lead each engagement. Our team members are selected based on their relevant professional experience and are assigned to the project from conception to completion.

Key personnel assigned to this engagement are:

Ray Kolodzieczak
Project Manager

As Project Manager, Mr. Kolodzieczak will be responsible for the day-to-day management of this engagement, including staff assignments and the production of all deliverable products. Mr. Kolodzieczak will also serve as the primary Guidepost Solutions TDC interface with the HOK project team.

References

Captain Thomas Ferrara
Solano County Sheriff's Department
707.438.1713
tferrara@solanocounty.com
Project: Solano County Jail

Tom Forbish
Shasta County Facilities Manager
530.225.3719
tforbish@co.shasta.ca.us
Project: Shasta County Jail

Nancy Gordon
County of Santa Cruz
General Services Director
831.454.2714
gsd002@co.santa-cruz.ca.us
Project: Santa Cruz County Main Jail

Kevin Fitzgerald
County of Santa Cruz Human Services Department
Facilities Manager
831.454.4001
kevin.fitzgerald@hsd.co.santa-cruz.ca.us
Project: Santa Cruz County Health Department

David Rickerson, CDT, CCCA, PSP, CPP

Detention Door Hardware, Equipment, & Furnishings Consultant

Mr. Rickerson will work with the Project Manager to develop detention door hardware, detention sliding door locking hardware, and detention equipment and furnishings specifications and schedules.

References

Michael Cadrecha
Alameda County
GSA-TSD
510.208.9589
Michael.Cadrecha@ACGOV.org
Project: Santa Rita Jail

Sgt. Suzanne Culbertson
County of Solano
707.784.1165
srculbertson@solanocounty.com
Project: Solano County Jail Claybank - 362 Bed Facility

Todd Winslow
Project Manager; Electrical Contractor
707.689.3638
twinslow@rcelectric.com
Project: Kaiser Permanente Redwood City Medical Center Security Upgrades

Stan Hultgren

Security, Fire Alarm, and Nurse Call Senior Designer

Mr. Hultgren will work with the Project Manager to develop security, fire alarm, and nurse call design concepts; be responsible for the management and production of technical system design drawings and specifications; and provide oversight during the design and construction phases of work.

References

Jim Le
Sacramento County Architectural Services Division
916.876.6321, lej@saccounty.net
Projects: Sacramento Main Jail Fire Alarm System Replacement, Sacramento County Rio Cosumnes Correctional Center Fire Alarm System Upgrade

Kyle Wilson, RCDD, PMP, PSP
Teledata Infrastructure Designer

Mr. Wilson will work with the Project Manager to develop telecommunications infrastructure design concepts; be responsible for the management and production of technical system design drawings and specifications; and provide oversight during the design and construction phases of work.

References

Ed Avila
HMC Architects
Principal
909.989.9979
Edward.Avila@hmcarchitects.com
Project: Martin Luther King Jr. Los Angeles County Hospital

Carol Hayes
University of Southern California
Director of Administrative Operations
213.821.2695
chayes@caps.usc.edu
Projects: USC Department of Public Safety, USC Basis of Design Project

Andrew Wheeler
gkkworks
Principal
949.250.1500 ext.1500
awheeler@gkkworks.com
Project: VA San Diego Spinal Cord Injury / Community Living Center

Kelly Miller
Audiovisual Systems Designer

Mr. Miller will work with the Project Manager to develop audiovisual systems design concepts; be responsible for the management and production of technical system design drawings and specifications; and provide oversight during the design and construction phases of work.

References

Malvin Whang
Project Architect
Harley Ellis Devereaux
858.245.7497
Project: UC San Francisco Telemedicine and Learning Center

Nasser Salomon
Director - Learning Technologies- UC Riverside
951.827.2483
Project: UC Riverside School of Medicine Learning Center and Medical Simulation

Michael Cadrecha
Architect/PM
Alameda County GSA
510.208.9589
Project: Alameda County Emergency Operations Center

Chris Papadimos
Acoustics Consultant – Principal

Mr. Papadimos, from our strategic partner Papadimos Group, will work with the Project Manager to provide acoustics consulting services for this project.

Gasper Sciacca, RA
Acoustics Consultant – Senior Associate

Mr. Sciacca, from our strategic partner Papadimos Group, will work with the Project Manager and the Acoustics Consultant Principal to provide acoustics consulting services for this project.

References

Geoff Sears
Partner
Wareham Properties
415.457.4964
GSears@warehamproperties.com
Project: Wareham Properties at Emerystation

Jessie Hudgins, MBA
Vice President of Facilities
559.353.5020
jhudgins@childrenscentralcal.org
Project: Children's Hospital Central California

Heideh Fattaey Ph.D.
Exec Director of Operations and Programs
James H. Clark Center at Stanford University
650.725.7882
hfattaey@stanford.edu
Project: New Stanford Hospital

Keith Lundquist
President
Lundquist Construction Management
408.280.2081
keith@lcm-inc.net
Project: Amgen/Tularik/Nektar/Scout Capital

Dennis McCoy
Principal
Nova Partners
650.324.5304
dennis@novapartners.com
Project: UCSF Parnassus

Please find our proposed team's resumes on the following pages.

GUIDEPOST SOLUTIONS
TECHNOLOGY DESIGN CONSULTING

Ray Kolodzieczak

Senior Project Manager
Guidepost Solutions Technology Design Consulting

Mr. Kolodzieczak has been with Guidepost Solutions TDC over 12 years. His experience entails over 17 years of work on major fire and security system projects, specializing in Detention facilities.

During his career Mr. Kolodzieczak has served in the design and project management roles for many complex and diverse projects including the design and implementation of security electronics and fire alarm systems in new detention facilities and existing detention facility system retrofits. Mr. Kolodzieczak has prepared numerous detention facility systems needs assessments and master plans to provide clients clear direction for the upgrade of their facilities.

At Guidepost Solutions TDC Mr. Kolodzieczak is responsible for system design and programming, site surveys, existing system assessment, production of Drawings and Specifications, coordination with architectural/engineering disciplines, bid evaluation, project management, and supervision of acceptance testing for Fire Alarm, Life Safety, Security, Card Access, and CCTV Systems.

Selected Experience

Fresno Juvenile Justice Campus
Fresno, California

$146 million; largest state-of-the-art juvenile justice facility in the State of California; preliminary security design, final security design, and bidding work on this project. Security work includes: site security, access control, door control and alarm monitoring, CCTV surveillance systems, and intercom system

Shasta County Main Jail
Redding, California

115,035 sq. ft.; 11-story jail wing attached to a two-story County administrative wing that houses courtrooms and offices

Siskiyou County Jail Fire Alarm and Security Electronics Upgrade
Yreka, California

A Security Electronics and Fire Alarm System design was produced as a subconsultant to the Architect for this existing occupied facility to upgrade the existing, proprietary security electronics equipment to an industry standard programmable logic controller-based system. Controls and casework in Central Control and Housing Control were designed to provide the operator a comfortable and flexible ergonomic working environment. The hard-wired fire alarm system was demolished and a new code-compliant, addressable system was installed. The budget and construction cost for this upgrade as provided by Guidepost Solutions TDC was $900,000 for this 40,000 sq. ft., 80-bed, occupied facility.

Education

Cal State Hayward - Bachelor of Arts, History, September 2006
Ohlone College - Associates Degree, Liberal Arts, 2001

Areas of Expertise

Fire Alarm Systems Design
Security Systems Design
Project Management
Value Engineering
Project Scheduling &Coordination
Clients Interface
Field surveys & meetings
Code Requirements & Compliance
Commissioning
Peer Reviews
Project Documentation
AutoCAD

Project Experience

CDC Salinas Valley 64 Bed Expansion
Contra Costa County Juvenile Hall
CDCR El Paso de Robles Juvenile Facility Security Design
Fresno Juvenile Justice Campus
Kern County Juvenile Hall Security Design
Santa Clara County Juvenile Hall Design
Santa Clara County Juvenile Housing
Santa Clara County Jail South Elevator
Santa Clara County Work Furlough
Santa Clara County Jail
Sacramento County Courts
Santa Cruz County Main Jail Security Electronics
Santa Cruz County Jail Rountree Fire Alarm
Shasta County Jail Fire Alarm Upgrade
Shasta County Jail Security Electronics Upgrade
Siskiyou County Juvenile Fire Alarm & Security Upgrade
Solano County Juvenile Hall
Stanislaus Sheriff Emergency Dispatch
Vacaville Police Department
Ventura County Juvenile Hall
Walnut Creek Police & Dispatch

David Rickerson, CDT, CCCA, PSP, CPP

Project Manager
Guidepost Solutions Technology Design Consulting

Mr. Rickerson has 10 years' experience in the design, installation, and project management of a diverse array of technology solutions, including security, architectural door hardware, data network, and low voltage communications. At Guidepost Solutions TDC he is responsible for security and low-voltage systems engineering and design, site surveys, existing system assessment, review and production of Drawings and Specifications, bid evaluation, construction administration, and project management.

Selected Experience

Alameda County Jail – Santa Rita
Dublin, California

Mr. Rickerson provided project support during Guidepost Solutions TDC engagement to perform a comprehensive survey of existing conditions at the facility, assess and evaluate the effectiveness and viability of existing systems, and develop a master plan for a phased upgrade of the entire facility including backbone infrastructure, security and intrusion detection systems, and operational policies and procedures.

Solano County Jail Claybank Adult Detention Facility Expansion
Fairfield, California

Guidepost Solutions TDC is providing security electronics and fire alarm systems consulting services for the Claybank Adult Detention Facility Expansion Project located in Fairfield, California. Our scope of work includes an assessment of the existing facility fire alarm, security electronics equipment, and tel/data infrastructure; and design and construction management of the new facility-wide fire alarm, security electronics, and tel/data systems. Mr. Rickerson is providing project support services for this project.

Sierra Vista Hospital Psychiatric Facility Expansion
Sacramento, California

Guidepost Solutions TDC provided security consulting services for the expansion of Sierra Vista Hospital, a private acute care psychiatric hospital that provides inpatient and outpatient services. The expansion project added approximately 20,467 sq. ft. of space to the existing hospital. Our scope of work included designing new security systems for the expansion area as well as integrating those systems with the systems in the existing hospital.

Education

Humboldt State University:
B.S., Computer Information Systems
Minors, Business and Philosophy
Western Career College:
A.S., Architectural Design Drafting

Certifications

Construction Specifications Institute: Construction Documents Technologist (CDT); Certified Construction Contract Administrator (CCCA)
American Society for Industrial Security: Physical Security Professional (PSP); Certified Protection Professional (CPP)

Affiliations

American Society for Industrial Security (ASIS)
Construction Specifications Institute (CSI)
International Association for Healthcare Security and Safety (IAHSS)

Areas of Expertise

Access Control Systems
Analog and IP CCTV Systems
Analog and IP Intercom
Biometric Access Systems
Card Access Systems
Electrified Door Hardware
Guard Tour Systems
Infant Tagging Systems
Intrusion Detection Systems
Key Control Systems
Perimeter Detection Systems
Personal Duress Systems
Power over Ethernet (PoE)
Programmable Logic Controller (PLC)
Security Electronics Specifications
TeleData and Ethernet LAN Systems
Video Analytics

Project Experience

Alameda County Santa Rita Jail
San Joaquin County Juvenile Hall
Solano County Claybank Adult Facility
UC Irvine Medical Center Master Plan

Stan Hultgren

Project Manager
Guidepost Solutions Technology Design Consulting

Mr. Hultgren has over 37 years' experience in designing, managing, and overseeing minor and major projects in the Western United States. His expertise includes Fire Alarm, Life Safety, Prison Security, Intrusion Security, Access Control, Nurse Call, Audio, Sound Masking, MATV, CATV, CCTV, Telephone, Clocks, School Intercom, and Broadband LAN systems. He has, on numerous projects, been responsible for overall system design, coordination with architectural / engineering disciplines, Code compliance, cost estimating, and value engineering. His responsibilities have included system design and programming, site surveys, existing system assessments, production of drawings and specifications, bid evaluation, project management, contract administration, and acceptance testing for all systems.

Prior to joining Guidepost Solutions TDC, Mr. Hultgren spent 29 years in the Low Voltage construction industry as a project manager, estimator, and project engineer. Concurrently, between 1988 and 2001 he worked as a cost consultant. He has served as an expert witness in cases involving barking dogs, construction deficiencies, and cost overruns.

Selected Experience

City and County of San Francisco, Jail #3 Replacement
San Bruno, California

We initially worked with the Bridging Documents team to develop a security program that includes a new Central Control, door control systems, intercom, CCTV, alarm monitoring, and video motion detection. As part of that scope of work, we visited and assessed several existing San Francisco Jail facilities to develop recommendations regarding appropriate security equipment and Central Control requirements. Our work continued with the Design-Build team from bridging documents through construction administration. Construction value - $113.5 million

Washoe County Jan Evans Juvenile Justice Facility
Reno, Nevada

Planning and design for a new 83,860 sq. ft., 108-bed juvenile detention facility, including educational and probation wings, with support facilities for expansion of additional 36-bed pod. Security design included door control and door monitoring, intercom and public address, closed circuit television with digital video recorders, programmable logic controllers, control panels (touchscreen in central control and graphic in pods), cable TV distribution, card access control for doors in non-detention areas, and audio/video in courtroom. Construction Vale - $25 million. Systems costs- approx. $1.2 million.

Education

Sacramento State University:
BSEE, 1971
Merritt College: Financial Accounting 1985
Keller Graduate School: Project Management 2005

Certifications

Professional Audio, Altec Lansing
Health Care, Jeron
MATV, Blonder-Tongue
Professional Audio, Bose
Professional Audio, Electrovoice
Audio Design, University
Health Care/Audio, Rauland Borg
CCTV, Vicon
Professional Audio, Syn-Aud-Con
Fire Alarm, EST

Areas of Expertise

Systems Design
Master Planning
Project Management
Contract Administration
Value Engineering
Commissioning
Life Safety System Design
Nurse Call
MATV
Sound Masking
Professional Audio
Public Address
Intercom
Access Control
CCTV
Control Panels
Expert Witness

Project Experience

Pelican Bay State Prison
Folsom State Prison
Denver Health Detention
East Hawaii Police Detention Facility
Fresno County Juvenile Facility
Highland Hospital
Jan Evans Juvenile Justice Facility
San Francisco Juvenile Hall
San Francisco County Jail
San Joaquin County Jail
San Joaquin County Mental Health
Snohomish County Jail
Santa Clara County Jails
Ventura County Juvenile Facility

Kyle C. Wilson, RCDD, PMP, PSP

Project Manager
Guidepost Solutions Technology Design Consulting

Mr. Wilson is an experienced and industry certified project manager with a proven track record of managing client's needs to ensure project profitability through the application of technical expertise, strategic planning, and team supervision.

Prior to joining Guidepost Solutions TDC, Mr. Wilson served as a project manager for IT integrator companies. In his previous roles he successfully managed the design and deployment of multi-million dollar integrated systems projects consisting of digital surveillance, wireless, access control networks, and data applications for Fortune 500 and federal clients. Mr. Wilson is a certified BICSI Registered Communications Distribution Designer (RCDD) and has vast experience engineering bids and proposals across multiple low voltage infrastructure disciplines including structured cabling, outside plant (OSP), CCTV, and integrated security networks.

Mr. Wilson's project management experience and formal training has allowed him to recently achieve board certification as a Project Management Professional (PMP) through the globally-recognized PMI organization. He also holds a Physical Security Professional (PSP) certification from the American Society of Industrial Security.

Selected Experience

Martin Luther King, Jr. Medical Center Upgrade
Los Angeles, California

Guidepost Solutions TDC is providing low voltage systems design services for the renovation of the existing hospital, the construction of a new 20,000 sq. ft. administrative building and a new 130,000 sq. ft. ambulatory care building. We are also redesigning the inter-building low voltage connectivity (outside plant communications) which includes conduit pathways but also the relocation of the MPOE, coordination with service providers and various LA County stakeholders. Construction cost is estimated as $355 million.

Department of Veteran Affairs San Diego Medical Center Spinal Cord Injury/Community Living Center & PS
San Diego, California

Guidepost Solutions TDC is providing security and low voltage consulting and design services for a facility on the VA San Diego Medical Center campus that will house a 50-bed Spinal Cord Injury department, a 43-bed Community Living Center, and a new 800-car parking structure. Scope includes full design of Security & CCTV, Tel/Data Infrastructure & Wireless LAN, Fire Alarm, Nurse Call/Code Blue, Public Address, and Patient Entertainment Television (CATV/MATV).

Affiliations

BICSI
Project Management Institute (PMI)
American Society of Industrial Security (ASIS)
International Association for Healthcare Security & Safety (IAHSS)
TSA Transportation Worker Identification Credential (TWIC)

Certifications

BICSI Registered Communications Distribution Designer (RCDD) – Registration # 11996
PMI Project Management Professional (PMP) – PMP# 1336581
Physical Security Professional (PSP); ASIS International

Project Planning, Analysis, and Control Certification; ESI International
State of California and *Fiber Optic Association* licensed instructor for Postsecondary and Vocational Education in Fiber Optics
DvTel Latitude NVMS 5.0 & 3.5
Lenel: CR1000R VAR-Hardware Course & CR2000R VAR-Access Control Essentials
Engineer Equipment Mechanic School, USMC
Interior Wiring, Solid State Devices, and Construction Blueprint Reading, USMC (ACE accredited)

Project Experience

Coca-Cola
Federal Aviation Administration
HSBC
Marine Corps Air Ground Combat Center Twentynine Palms
Northrop Grumman
Robins Air Force Base
Scripps Health
Sempra Energy
UCI Medical Center
UCSD Health System
VA West Los Angeles

GUIDEPOST SOLUTIONS
TECHNOLOGY DESIGN CONSULTING

Kelly Miller

Project Manager
Guidepost Solutions Technology Design Consulting

Mr. Miller has more than 20 years unique experience in designing complex audiovisual systems, including large-scale videoconference networks. He has extensive skills in technology consulting and planning for standardization of communication systems in the large institutional and corporate environments.

Selected Experience

State of California – Dept. Of Justice DNA Crime Lab*
Richmond, California

Project manager and principal consultant for audiovisual and distance education technology for $10 million expansion of the state DNA crime lab. Oversaw design and technology installation for lab training facilities.

University of California, San Francisco-Medical Simulation and Telemedicine Training Center
San Francisco, California

Project manager and principal consultant for audiovisual, telemedicine and distance education technology for new $16 million medical simulation and telemedicine training center. Oversaw design and technology installation for control and review rooms, simulation rooms and distance education classrooms.

UC Riverside PRIME Telemedicine Teaching and Learning Center
Riverside, California

Guidepost Solutions TDC is the audiovisual systems design consultant for the remodel of approximately 8,290 sq. ft. of existing space within the Statistics/Computer building on the UC Riverside campus that will house Medical Simulation, Clinical Skills and Telemedicine training. The project also includes a gross anatomy lab, smart classrooms and problem-based learning spaces. In addition to audiovisual and telemedicine systems, design services include a LAN VPN for video and audio traffic and videoconferencing systems for connection to facilities on the campus of UCLA, Charles Drew University of Medicine and Science, as well as other facilities within the greater Los Angeles area that will be part of the PRIME US Telemedicine program.

Kaiser Permanente- Napa Data Center Command and Control*
Napa Valley, California

Project manager and principal consultant for audiovisual, technology for new $100 million data center. Oversaw design and technology installation for facility command and control center and meeting spaces.

*Project with previous firm

Education

Bachelor of Arts
California State University at Fullerton
Fullerton, California, June 1988

Affiliations

B.I.C.S.I.
Project Management Institute
Society of Motion Picture and Television Engineers
American Telemedicine Association

Areas of Expertise

Systems Design
Value Engineering
Project Management
Master Planning
Peer Review
Commissioning
MATV and CCTV
Videoconferencing Networks
PA and Background Audio
Presentation Technology
Media Storage and Servers
Digital Signage
Control Systems
Observation and Surveillance Systems
Telemedicine Networks and Devices

Project Experience

Kaiser Permanente – Oakland Medical Center
Jeppesen Boeing- Command and Control Center
Kaiser Permanente- Videoconferencing Network
Nissan America- CATV
City of Beverly Hills- Council Chambers
Kaiser Permanente- Autism Labs

Chris Papadimos

Principal
Papadimos Group

Mr. Papadimos is responsible for the overall management of the firm and all major project assignments. He has been consulting in acoustics and vibration continuously since 1989 for projects throughout the country.

Chris favors a practical, hands-on approach of integrating acoustical requirements into the project design from the onset of each project. His experience ranges from conducting feasibility studies, developing programming requirements, setting appropriate design criteria, carrying out site and building characterizations, developing and implementing acoustic design options, and controlling noise and vibration due to building mechanical, electrical, plumbing and vertical transportation systems.

Mr. Papadimos is an experienced project manager and has consulted on some of the largest building construction projects in the world. He has also published technical papers, participated in the development of acoustic standards and guidelines, and provided technical presentations to architects, engineers and building owners.

Education

Bachelor of Science in Mechanical Engineering, University of California at Los Angeles, 1989
Magna cum Laude

Affiliations

ASHRAE National, Technical Committee on Sound and Vibration – Programs Chair

Institute of Noise Control Engineering (INCE) – Member

Project Experience

James H Clark Center at Stanford
Los Esteros Critical Facility – San Jose, CA
Netflix Facilities – several projects
Macae Energy Center - Brazil
Millennium Sciences Complex at PSU
Plaquemines Parish Detention Facility
Portola Valley Town Hall Complex
San Jose Civic Center – San Jose, CA
Sequoia Union School District Admin
Solano County Government Center
Spartan Energy Center
The New Stanford Hospital
UC San Diego Jacobs Medical Center
UC Santa Cruz – Biomedical Research
UCSF at Mission Bay – Several Research Buildings and Medical Center Master Plan
UCSF at Parnassus - IRM Institute
University of Chicago Hospital Pavilion
UPENN Translational Research Facility
USDA Phase II Complex – Ames, IA
Van Andel Institute, Phase II
Wareham Properties at Emerystation
Wallingford Energy Center

Gasper Sciacca, RA

Senior Associate
Papadimos Group

Mr. Sciacca brings a wealth of practical experience in many project categories. His responsibilities include providing consultation in architectural acoustics and noise control for all aspects of building design.

Mr. Sciacca began his acoustical consulting career in the Chicago office of Bolt Beranek and Newman, considered in many ways as the firm that developed most aspects of building acoustics into a science.

Gasper is experienced in providing acoustical consulting for the design of a wide variety of projects from justice to detention facilities to convention centers and hospitality facilities. He also consults on the design of performing spaces, corporate centers and educational auditoriums, lecture halls and training centers. His work includes corporate headquarters and office buildings, as well as extensive work in multi-family residential projects.

Because he is an architect, he maintains an active interest in the integration and coordination of acoustics, electro-acoustics and audiovisual systems with architectural design and construction requirements towards achieving imaginative and technically successful projects.

Education

Degree in Architecture - University of Illinois at Urbana

Registrations

Registered Architect, Illinois
Registered Architect, Wisconsin
Registered Architect, California

Affiliations

American Institute of Architects
Acoustical Society of America
American Institute of Physics
Construction Specifications Institute

Project Experience

Auburn Justice Center
City of Auburn Justice Center
CSU Science Building at Stanislaus
Berkeley Art Museum & Film Archive
Dharma Realm Buddhist Campus
Los Angeles Federal Courthouse
Merritt College for Science & Health
Morgan Hill Courthouse
Moscone Convention Center
Pasadena City Hall Renovations
Sacramento City Hall Expansion
San Diego Federal Courthouse
San Francisco County Jail
San Joaquin County Superior Courts
San Mateo Youth Service Center
Shasta County Admin Center
Solano County Admin Building
Stanislaus County Animal Shelter
Terra Linda High School Modernization
Tracy City Hall

TEECOM

RESPONSE TO REQUEST FOR PROPOSALS FOR ARCHITECTURAL AND ENGINEERING SERVICES SAN MATEO COUNTY REPLACEMENT CORRECTIONAL FACILITY

ADDITIONAL INFORMATION

HOK

29 February 2012

South Placer Justice Center

29 FEBRUARY 2012

CATHERINE CHAN,
VICE PRESIDENT
HOK
ONE BUSH ST STE 200
SAN FRANCISCO CA
94104

Catherine,

On behalf of TEECOM I wanted to thank you for giving us the opportunity to propose our services on this most important project.

We have included in the following pages the information you have requested and would welcome the opportunity to present our qualifications in person at a time that is convenient for you and your client.

Before you review the detailed information that follows, I wanted to invite you to consider the following points in making the difficult decision that is selecting the best consultant for your team:

- TEECOM is the largest firm of its kind in the nation. We are focused solely on the design, integration, and project management of technology (telecommunications, audiovisual, acoustics, security, data, network, and controls) during the facilities development process, backed by research and innovation. The latter is, in our humble opinion, a tremendous advantage and edge over our competition for architects and owners alike to prepare facilities FOR the future. We provide the most effective solutions available at the most appropriate level of client investment. Your client, our client's goals are our number one priority, not only the day the facility opens, but for years to come.

- TEECOM has the local resources and depth to provide HOK and San Mateo County with the peace of mind that every expert should provide. We will continue to demonstrate our dedication to your success and that of your team and the project. Our pledge of excellence to you and San Mateo County is not only to provide the best technology engineering design services, but the best consultant experience possible. The success of your client, and your success is our pride. Our team is committed, excellence is our pledge to you, our purpose.

- Since its inception in 1997, TEECOM has created the vision for, designed, or managed over 1,000 technology systems for leading organizations, public and private. We are proud to say to this date that we have never been engaged in any lawsuits or claims, nor have we ever been fired from a job. Our business is built upon a strong following of repeat clients and architects who realize the value that TEECOM brings to each and every project.

To conclude Catherine, what we propose to you is a promise, a commitment to the successful completion of the San Mateo County Replacement Correctional facility.

Delivering excellence is at the core of TEECOM's philosophy, not only as a consultant to you, but to ourselves internally. We strive in every aspect of our business to go above and beyond. Allow us to fulfill that promise and demonstrate our commitment to your success.

Regards,

Samuel J. Fajner, Associate Principal
RVP, Client Relations & Development

CONTENTS

01

APPROACH

San Francisco County Jail #3 Replacement

PROJECT APPROACH

Collaborative Interdisciplinary Design

AS A TRUSTED ADVISOR, WE MUST FIRST EARN THE TRUST AND RESPECT OF THE CLIENT.

We believe trust is built upon consistency. Consistency of exceptional, devoted attention, from a highly reliable and credible source, yielding a superb experience and outcome. That is precisely the commitment we extend to HOK and the San Mateo County Jail: an exceptional experience and outcome.

Please allow us begin to present our capabilities, project approach, and formula for success:

TEECOM is the largest firm of its kind in the world. We offer a global reach, yet with a local touch. In fact, the Bay Area is our home, and we offer more registered and credentialed professionals that focus purely on technology than every other firm in the entire San Francisco Bay Area combined. This concentration of dedicated technology professionals offers a think tank, production house, and execution arm unparalleled in the industry.

We are focused solely on the design, integration, and project management of technology during the facilities development process. Specifically, our strongest disciplines include telecommunications, audiovisual, acoustics, security, data, network, and controls. Our largest technology departments internally exists within our telecommunications and audiovisual (including acoustics) group, which boasts a collective staff of 23 engineers. In fact, organization wide we offer the following credentials:

Professional Engineers (PE) - 5
Registered Communications Distribution Designer (RCDD) - BICSI - 11
Certified Protection Professionals (CPP) - ASIS - 2
Certified Technology Specialist (CTS) - infoComm - 2
Certified Technology Specialist- Design (CTS-D) - infoComm - 1
Construction Documents Technologist (CDT) - Construction Specifications Institute - 9

The services requested by the San Mateo County Jail and HOK are at the core of what TEECOM does every day: design/engineering, backed by research and innovation. Because we attract the very top talent of those obsessed with all things technology, we have assembled a group of the finest and most competent professionals you will ever work with, who are passionate about what they do and the firm they work for. In fact, TEECOM employees have voted TEECOM as the best firm to work for in our industry for the last five consecutive years. We think passionate employees translate into employees who are passionate about YOUR success.

PROJECT APPROACH

As a result our extensive experience, delivering over 1,000 successful projects to date, we have developed a finely tuned methodical approach, and corresponding tools, to deliver a highly predictable process and outcome.

Our central focus at the beginning of this effort will be to engage in an intensive study of the project to truly grasp the mission, vision, and more pragmatic needs of the project. This intimate understanding of the collective client (HOK and the San Mateo County Jail) allows us to authentically serve as a trusted advisor and effectively champion the expectations of the client. Thus, we build trust in the initial stages of our engagement protected and cultivated well beyond the delivery of the desired result and conclusion of the project.

Once we fully discern the collective client's requirements, TEECOM realizes the critical nature of not only managing the design process, but also the need to drive key technology decisions throughout the project, while also documenting and capturing the decisions made, and the context behind the conclusions and/or resolutions reached. In order to appropriately manage the decision-making process, and capture the data supporting such decisions, we have developed a number of robust, proprietary tracking tools that allow TEECOM to deliver a consistent, highly predictable, and methodical process, void of surprises.

After first listening to and understanding the requirement's of the project, we shift our central focus to efforts required to establish a project budget and basis of design for the actual systems: telecommunications, audiovisual systems, as well as the acoustical requirements, to establish space and load requirements for the technology rooms on the project. This key information is needed so the architect and engineers can plan space and systems to support the technology spaces. We will also develop project responsibilities and establish a decision log so all the key stakeholders understand key responsibilities and decisions that are made throughout the project. Again, we develop these initial documents from information gathered during our visioning sessions and user group meetings. Our goal is to ensure that the technology systems meet the requirements of the owners technology vision and budget and that the technology systems are well coordinated with the rest of the design team from the start.

The following is a brief description of the comprehensive tools we will be using on this project:

BUDGET

We use Microsoft Excel to prepare our Opinions of Probable Construction Cost (OPCC), using the detailed, hands-on knowledge of our engineers who come from contracting backgrounds. Updated OPCCs are prepared as the project moves through the design and implementation phases, to ensure it stays within your budget. During construction, the OPCC is also used to track any change order costs against the budget contingency. TEECOM

has an excellent track record of very low to no change orders when managing the design and implementation process. We believe all the details must be worked out during design, not left as change order opportunities for the contractor during construction.

RESPONSIBILITY MATRIX

This document vets out the project needs, deliverables and responsible parties before pen is set to paper and is a living document throughout the project. This is document has become a standard practice on every TEECOM project, large or small, as we tend to find lots of scope gap and team members who don't realize what their true role is on a project and what they are really responsible for. This one document can reduce change orders on a project by 10% just by finding scope gaps.

CRITICAL DECISION MATRIX

This document is coordinated with the project schedule to not only list present and future tasks but when they must occur in order to stay off the critical path. This enables both the design team and client the ability to understand how the technology design and implementation process fits into the overall project. This document allows proactive thinking about not only where a project is today but what future task the PM may start to resolve today to avoid future risk or task failure.

BASIS OF DESIGN NARRATIVE (BOD)

This document is a program narrative that details and captures all technology systems and how they relate to the building construction. The BOD is one of the first documents created on a project so the owner can sign off on the design intent. It is used as a coordination tool with the design team, and all future construction documents (drawings and specifications) are created from this information. Specifically, this document details: IT space requirements, equipment loads (Mechanical/ Electrical), cabling needs, pathways, audiovisual design/ strategy, etc. It is also used as a starting point to develop the initial OPCC (budget). Like the Critical Decision Matrix this document helps keep the design team aligned to the client goals throughout the entirety of the project.

NEWFORMA

This is a software management tool for tracking e-mails, project documentation (drawings and specifications), file transfers, tasks, RFI's and submittals, and sharing them with the entire project team so that everyone is on the same page.

MECHANICAL, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL MATRIX (MEFPA MATRIX)

This is a matrix that locates all architectural, mechanical, electrical, and fire protection requirements for all IT spaces. It is used as a single coordination tool to assist the other design team members with the design of their systems to meet the requirements for IT spaces. This is a single sheet with all values listed in a table and is updated throughout the design phase. Its main purpose is to reduce the amount of individual correspondence and provide all pertinent information in one consolidated place.

DESIGN DECISION LOG

Another unique quality control tool is our Design Decision Log. It is a living document where we capture the various design decisions that are made during a project. As completion of CD approaches, or once the project is under construction, if questions arise regarding any aspect of the design, we have a clear record of when, who and why a specific decision was made. It is also used as a QA/QC tool to backcheck our and the design team's documents.

02

INSURANCE

South Placer Justice Center

INSURANCE REQUIREMENT

Insurance Requirement
Certificate of Liability Insurance

Insurance Requirement

TEECOM's insurance coverage carries $2M per occurrence/$4M aggregate of professional liability. This satisfies HOK's requirement for Acoustics/AV, Special Systems, Commercial General Liability, Employer Liability, Auto, and Umbrella.

Please refer to TEECOM's Insurance Certificate for additional details.

Client#: 1999 TEECOM

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 01/23/12

PRODUCER
Dealey, Renton & Associates
P. O. Box 12675 Attn: KXC
Oakland, CA 94604-2675
510 465-3090

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
TEECOM
1333 Broadway, Suite 601
Oakland, CA 94612

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Hartford Casualty Insurance Co.	31194
INSURER B: American Automobile Ins. Co.	
INSURER C: Travelers Casualty & Surety Co. Amer	
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR X Contractural Liability Included GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC	57SBAKD1710	01/27/12	01/27/13	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$2,000,000 $1,000,000 $10,000 $2,000,000 $4,000,000 $4,000,000
A		AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	57SBAKD1710	01/27/12	01/27/13	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$2,000,000 $ $ $
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
A		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $ 10000	57SBAKD1710	01/27/12	01/27/13	EACH OCCURRENCE AGGREGATE	$2,000,000 $2,000,000 $ $ $
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WZP80998836	01/27/12	01/27/13	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$1,000,000 $1,000,000 $1,000,000
C		OTHER Professional Liability	105392558	01/27/12	01/27/13	$2,000,000 per claim $4,000,000 annl aggr.	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

General Liability policy excludes claims arising out of the performance of professional services.

For proposal purposes only

CERTIFICATE HOLDER

****Specimen****

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
Naomi M. Barrett

03

MATRIX

Mammoth Lakes Courthouse

SAN MATEO PROJECT MATRIX

Detention/Correctional Projects Completed within the last 10 years, Construction Cost $25M or above, Full Service Design

San Mateo Jail Project Matrix

	Project Information										Location			Delivery		Teaming Experience					
Project Name	Year of Completion	Construction Cost (In $Millions)	Gross Area (In Square Feet)	No. of Beds (Design Capacity)	Direct Supervision	No. of Building(s)	No. of Storey(s)	LEED Certification (None, Certified, Silver, Gold or Platinum)	BIM Usage (Answer Yes If a Design Model Was Created For Coordination And Deliverable)	New Facility - Full Service Design	Redwood City (RWC)	San Mateo County (SMC)	State of CA	CM At Risk	Design-Build	Direct Relevant Experience	HOK	Hensel Phelps	McCarthy	Sundt-Layton	Comments
San Francisco County Jail #3 Replacement	2004	$95M	283,000	384 cells, 768 beds	Yes	4	4	-	No	Yes	-	-	Yes	Yes	-	Yes	-	-	-	-	Telecom, Network, and PBX
Alameda County Juvenile Detention Facility	2006	$176	379,000	360	Yes	3	3	Gold	No	Yes	-	-	Yes	-	Yes	Yes	Yes	Yes	-	-	Telecom
South Placer Justice Center	2008	$36M	110,000	18	Yes	1	2	-	No	Yes	-	-	Yes	-	Yes	Yes	-	-	-	-	Telecom, Security, and AV
Mammoth Lakes Courthouse	2011	$21.5M	20,300	6	Yes	1	2	Silver*	No	Yes	-	-	Yes	Yes	-	Yes	-	-	-	Yes	Telecom, Security, and AV *LEED Silver Certification Pending

San Francisco County Jail #3 Replacement

Alameda County Juvenile Detention Facility

South Placer Justice Center

Mammoth Lakes Courthouse

TEECOM

04

PERSONNEL

Alameda County Juvenile Detention Facility

PROJECT PERSONNEL

The TEECOM Commitment
Telecom, Audiovisual and Acoustics Resumes
Client References

The TEECOM Commitment

Here at TEECOM, we are committed to the success at the San Mateo County Replacement Correctional Facilty. We seek to exceed all client expectations by demonstrating the utmost professionalism, interacting proactively on their behalf, and developing innovative solutions. Our method results in fewer change orders, projects that flow smoother, and carefully planned systems that can grow with out clients' organization. Today, our highest priority remains the same; TEECOM continues to approach every aspect of a project as an opportunity to create the best possible solution for both San Mateo County and HOK.

My Personal Obsession: technology and acoustics are coordinated internally, and with the rest of the design team, maximizing integration, and eliminating errors.

Larry Anderson, PE RCDD CDT, Principal in Charge

My Personal Obsession: designing and coordinating pathways and devices before the floors and walls are built which saves the owner both time and money from reduced change orders.

Mark Latz, RCDD CDT, Project Manager & Lead Engineer

My Personal Obsession: designing additional boxes and conduits to support future technologies which saves the owner from costly retrofits in the future.

Arnel Avila, PE CTS CDT, Lead Audiovisual Engineer

My Personal Obsession: acoustics and the quality of design that provides comfortable and safe environments for its occupants.

Tim Schmidt, LEED GA, Lead Acoustical Consultant

TEECOM

Larry Anderson

PE RCDD CDT
Principal in Charge

With more than 15 years of experience in the consulting engineering field, Larry contributes to the TEECOM team effort with a high degree of professionalism and an understanding of how to identify and meet client needs. Before joining TEECOM, he worked with a national consulting firm that worked with large newspapers throughout the Country, helping them improve operational and organizational efficiencies through technology-based solutions. Larry is highly conversant in computer technology and has a strong, practical knowledge of the facility construction process.

TOTAL YEARS OF EXPERIENCE

15

EDUCATION & TRAINING

B.S., Mechanical Engineering

California State University, Sacramento

REGISTRATIONS & CERTIFICATIONS

Registered Electrical Engineer, California #17587

Registered Electrical Engineer, Washington #46212

Registered Electrical Engineer, Texas #105666

Registered Electrical Engineer, Oklahoma #25358

Registered Communication Distribution Designer (RCDD), #092282

Construction Document Technology Certification (CDT)

PROFESSIONAL AFFILIATIONS

Building Industry Consulting Services International

Construction Specification Institute

REFERENCES

Parkland Hospital and Jail
Alan Greenslade, CTO
5000 Harry Hines Blvd, Support Bldg A, 1st Flr
Dallas, TX 75235
T: (214) 590-0903
E: alan.greenslade@phhs.org

SELECT PROJECT EXPERIENCE

South Placer Justice Center
South Placer, CA

AOC Hollister Courthouse
Hollister, CA

AOC Porterville Courthouse
Porterville, CA

Emeryville Police Department Remodel
Emeryville, CA

Highland Hospital
Oakland, CA

Lucile Packard Children's Hospital
Palo Alto, CA

Parkland Hospital
Dallas, Texas

San Francisco General Hospital
San Francisco, CA

UCSF Mission Bay Medical Center
San Francisco, CA

UCSF Medical Sciences Building Seismic Upgrade
San Francisco, CA

Mark Latz

RCDD CDT

Project Manager & Lead Engineer

Mark has significant experience in communications system design and project planning, and maintains an extensive working knowledge of telecommunications systems and the construction process. Mark's system designs are based on industry standards while accounting for current market trends, the newest products, and interface with active equipment. Thus, he is able to provide services that support client's current requirements and anticipate future communications opportunities. Prior to joining TEECOM, he worked at Anixter Inc., where he developed a detailed and practical knowledge of telecom products and systems.

TOTAL YEARS OF EXPERIENCE

24

EDUCATION & TRAINING

B.S., Electrical Engineering

Purdue University, Lafayette, IN

REGISTRATIONS & CERTIFICATIONS

Registered Communication Distribution Designer (RCDD), #041229

Construction Document Technology Certification (CDT)

PROFESSIONAL AFFILIATIONS

Building Industry Consulting Services International (BICSI)

Construction Specification Institute (CSI)

REFERENCES

San Francisco County Jail #3R
Michael Wang, Director
KMD Justice
222 Vallejo Street
San Francisco, CA 94111
T: (415) 398-5191
E: wang@kmd-arch.com

Alameda County Juvenile Justice Center
Steve Slosek, AIA, LEED® AP, Vice President
HOK
One Bush St Ste 200
San Francisco CA 94104
T: 415 356 8581
E: steve.slosek@hok.com

SELECT PROJECT EXPERIENCE

San Francisco Jail #3
San Bruno, CA

Alameda County Juvenile Detention Facility
Alameda, CA

AOC Hollister Courthouse
Hollister, CA

Santa Clara Family Justice Center Feasibility Study
Santa Clara, CA

GSA 50 UN Plaza
San Francisco, CA

College of San Mateo Building 35 "Regional Public Safety Center"
San Mateo, CA

Snohomish City Public Works Maintenance Center
Everett, WA

State Compensation Insurance Fund Data Center
Vacaville, CA

California Academy of Sciences
San Francisco, CA

SLAC Research Support Building
Palo Alto, CA

TEECOM

Arnel Avila

PE CTS CDT
Lead Audiovisual Engineer

Arnel brings a background in mechanical engineering to TEECOM. He began his career as a systems engineer for a local BMS integrator where he designed controls for mechanical, electrical, and plumbing systems to provide an overall building energy management system. As buildings strive to become more 'green', these systems interface with security and audiovisual systems more than ever. This gives Arnel the knowledge to think of these systems outside their traditional use.

TOTAL YEARS OF EXPERIENCE

6

EDUCATION & TRAINING

B.S., Mechanical Engineering
Cal Poly, San Luis Obispo

REGISTRATIONS & CERTIFICATIONS

Registered Electrical Engineer, California E18352

Registered Electrical Engineer, Texas E105641

Registered Electrical Engineer, Oklahoma E25359

Construction Documents Technologist (CDT)

Certified Technology Specialist (CTS)

REFERENCES

AOC Courts
Jennifer H Willard, Supervising AV/Video Systems Technical Analyst
Judicial Council of California
Administrative Office of the Courts
T: (415) 865-7755
E: jennifer.willard@jud.ca.gov

University of Nevada, Reno Library
Greg Gardella, Instructional Technology Manager
University of Nevada, Reno
M: (775) 691-4844
E: greg@unr.edu

SELECT PROJECT EXPERIENCE

South Placer Justice Center
South Placer, CA

AOC Mammoth Lakes Courthouse
Mammoth Lakes, CA

AOC Porterville Courthouse
Porterville, CA

CalPERS Headquarters
Sacramento, CA

Lincoln City Hall
Lincoln, CA

Snohomish City Public Works Maintenance Center
Everett, WA

Madera County Government Center
Madera, CA

Cal Academy of Sciences
San Francisco, CA

Palo Alto Medical Foundation
Palo Alto, CA

San Diego Children's Hospital
San Diego, CA

Tim Schmidt

Lead Acoustical Consultant

Tim brings over 12 years of experience in acoustics and noise control design for buildings and human exposure. Tim's experience in acoustics covers a spectrum of project types and includes numerous large scale corporate, multi-family, healthcare, research, mixed use, and education projects. With a background in architecture, engineering, and building construction, Tim brings an understanding of building systems, and applies efficiency and synergy in working with the design team, clients, user groups, and installers. Tim's specialties are acoustic comfort for the work place, speech intelligibility for presentations, and optimizing rooms for performance and listening. He has particular ability to develop acoustic solutions for high performance buildings, high capacity building systems, and projects with complex programmatic needs. He has guided the acoustic design of auditoria, multimedia presentation rooms, and facilities that that feature innovative approaches to natural ventilation, day lighting interior spaces, and low energy/low noise HVAC systems. Tim's experience also includes on-site evaluations of appropriate acoustic performance parameters including an array of room acoustics and sound isolation metrics, and measuring noise/vibration emissions from various sources related to noise codes and stringent design standards.

TOTAL YEARS OF EXPERIENCE

12

EDUCATION & TRAINING

B.S., Architecture, Georgia Institute of Technology, Atlanta, GA

Extended Study in Architecture, Universität Stuttgart

REGISTRATIONS & CERTIFICATIONS

LEED Green Associate

PROFESSIONAL AFFILIATIONS

Acoustical Society of America

Institute of Noise Control Engineering, Associate Member

REFERENCES

Barclays Global Investors (Now Blackrock)
Jason McCarthy, Architect, AIA, STUDIOS
T: (415) 732-5315
E: jmccarthy@studiosarch.com

Intuit Corporate Headquarters
Matt Castor, Facilities Specialist, Workplace Solutions
T: (650) 944-3550

Netflix Call Center, Hillsboro, Oregon
Jim Leibold, Facilities Project Manager
T: (408) 540-3731

SELECT PROJECT EXPERIENCE

Sonoma County Main Adult Detention Facility
Santa Rosa, CA

Clark County Regional Justice Center
Las Vegas, NV

AOC Fresno Courthouse
Fresno, CA

AOC Willows Courthouse
Willows, CA

Main Adult Detention Center
Santa Rosa, CA

Vernon Jubilee Hospital Diagnostic and Treatment Building
Vernon, British Columbia

UC Davis Medical Center
Sacramento, CA

TEECOM

Client References

"TEECOM oversaw the courthouse's audiovisual, broadcast, telecommunications, and security systems. Their expertise in technology made them a good fit for this responsibility."

Dennis Salter, Placer Department of Facility Services

SAN FRANCISCO COUNTY JAIL #3R

Michael Wang, Director
KMD Justice
222 Vallejo Street
San Francisco, CA 94111
T: (415) 398-5191
E: wang@kmd-arch.com

ALAMEDA COUNTY JUVENILE JUSTICE CENTER

Steve Slosek, AIA, LEED® AP, Vice President
HOK
One Bush St Ste 200
San Francisco CA 94104
T: 415 356 8581
E: steve.slosek@hok.com

SOUTH PLACER JUSTICE CENTER

Dennis Salter
Placer County's Department of Facility Services
11476 C Avenue
Auburn, CA 95603
T: 530 886 4981
E: dsalter@placer.ca.gov

MAMMOTH LAKES COURTHOUSE

Paul Davison RIBA, Intermediate Architect
Mark Cavagnero Associates Architects
1045 Sansome St # 200
San Francisco, CA 94111
T: 415 398 6944
E: pauld@cavagnero.com

TEECOM

1333 Broadway Suite 601
Oakland, CA 94612
510 337 2800

www.teecom.com

John R. Moran, III, QEI

Principal-In-Charge

John is responsible for the operation of Syska Hennessy Group's Vertical Transportation Group (VTG), including project management and design of elevator, escalators and automated people moving systems; solid waste management; materials handling systems; and related surveys, studies, costs, designs, specification, economic justification studies, and field observations. He has over 34 years experience in the elevator industry. His experience includes the design and project management of numerous elevator and materials handling systems throughout the United States and Far East. His understanding of elevator analysis and the techniques in applying available elevator technology to specific design applications has resulted in cost-effective solutions, providing superior elevator service and economical use of building space.

Project Experience

- **San Mateo County Jail,** San Mateo, CA
- **Alameda County Juvenile Justice Center, Vertical Transportation,** *LEED® Gold,* San Leandro, California
- **Marin County Correctional Center,** Marin, CA
- **Pierce County Correctional Center,** Tacoma, WA
- **Shasta County Jail,** Redding, CA
- **San Quentin Central Health Services Building,** San Quentin, CA
- **York County Courthouse, Elevator Design and Construction Management,** York County, PA
- **State of California, Long Beach Courthouse, VT Design Guidelines,** Long Beach, CA
- **San Quentin Housing,** San Quentin, CA
- **Maricopa County, New High-Rise Court Tower, Registered LEED NC Silver,** Phoenix, AZ
- **East Contra Costa County Courthouse,** Pittsburg, CA
- **Clark Street Federal Office Building,** Chicago, IL
- **U.S. Courthouse and Federal Office Building,** Sacramento, CA
- **Salt Lake City Courts Complex,** Salt Lake City, UT
- **Santa Clara County Court House,** San Jose, CA
- **Phoenix Courthouse,** Phoenix, AZ
- **West Virginia Federal Courts and Office Building,** Charleston, WV
- **Bay Meadows Mixed Use Project,** San Mateo, CA

Education

MBA Management, Golden Gate University, 1984
B.S. Economics/Business Administration, Saint Mary's College of California, 1977

Professional Licenses and Certifications

NAESA Certified Elevator Safety Inspector

Professional Activities and Affiliations

International Association of Elevator Engineers
National Association of Elevator Safety Authorities
Advisor to OSHPD Ad Hoc Committee on Hospital Elevators
Instructor: American Institute of Architects (AIA) Certified Courses –'Elevator and Escalator Safety Course'

Jeff Sena

Vertical Transportation

Jeff has more than 9 years of experience in the elevator industry. His experience includes the design of numerous elevators, equipment specification and control system design. His understanding of specific elevator equipment and various configurations for optimum performance assists him in specifying elevator systems that best fit the unique needs of each project. Additionally, Jeff's experience in client and project management help make projects successful, both in design and in client satisfaction.

Project Experience

- **San Francisco Public Utility Commission,** San Francisco, CA
- **Department of Veteran Affairs, Palo Alto Medical Center New Parking Garage and Polytrauma Clinic Elevator Design,** Palo Alto, CA
- **California Pacific Medical Center, New Cathedral Hill Hospital Elevator Design,** San Francisco, CA
- **Los Angeles International Airport, Tom Bradley International Terminal Expansion,** Los Angeles, CA
- **Department of Veteran Affairs, New Las Vegas Medical Center Elevator Design,** Las Vegas, NV
- **Department of Veteran Affairs, San Francisco Medical Center Elevator Assessment,** San Francisco, CA
- **San Diego Airport, Terminal 2 West Expansion**, San Diego, CA
- **SCVMC Bed Building I,** Santa Clara, CA
- **Kaiser Medical Center Elevator Modernization,** Hayward, CA
- **State University New York, Campus Renovations**, Multiple locations, New York
- **City of Denver, Denver Club Elevator Controls Design,** Denver, CO
- **Bureau of Engraving Offices Elevator Controls Design,** Washington, DC
- **New York Transit Authority Various Elevator Control Projects,** New York, NY
- **New York Housing Authority Various Elevator Control Projects,** New York, NY
- **Santa Clara Valley Medical Center,** Santa Clara, CA
- **Arcas-Stratcom Military Base,** Nebraska
- **United Nations Building,** New York, NY
- **Boston University Student Services Center,** Boston, MA
- **Hotel Monaco,** Philadelphia, PA
- **Rose Bowl,** Pasadena, CA

Education

Bachelor of Science, Electrical Engineering, California State University, Sacramento, CA

Steven W. Marshall
Principal-in-Charge

Education:
College of San Mateo

Professional Associations/Affiliations:
Foodservice Consultants Society International
(Past President)
Society of Foodservice Management

Awards:
Foodservice Equipment and Supplies Specialist Magazine,
Foodservice consultant of the Year,
Restaurants & Institutions Awards Program,
Award for Food Facilities Design – Hotels, Restaurants, Universities

Registration:
Foodservice Consultants Society International (FCSI), Professional Member Since 1975
Past International President

Professional Experience:
1964 - Present Principal, The Marshall Associates, Inc.

Steve has been with The Marshall Associates, Inc. for the past 48 years and president for 36 years. The majority of his work involves the programming and designing of each corporate foodservice facility. He has an extremely active and progressive national and international practice. His experience with project development, design and operational analysis has proven successful for over 2000 hospitality, education and community projects. Steve is past international president of the Food Service Consultant's International Society (FCSI), which represents a majority of the professional Foodservice Consultants in the world. He is frequently quoted in industry publications and has twice been named Foodservice Consultant of the Year by Foodservice Equipment and Supplies Specialist Magazine, and recently Top Ten Hospitality Designers in North America by "Food Arts" Magazine.

References:

Alameda County Juvenile Justice Center
Hellmuth Obata + Kassabaum Architects
Catherine Chan, Project Manager
415-243-0555
Hensel Phelps Construction
Jeff Bennett, Project Manager
408-452-1800

San Mateo County Youth Services Center
Kaplan McLaughlin Diaz Architects
Robert Fierro, Project Manager
415.398.5191
Turner Construction
Craig T. Jones
415-705-8900

SVP Coalinga
California Dept of Mental Health
Jack Streigel, Owner Representative
916-654-3890
Kaplan McLaughlin Diaz Architects
John MacAllister, Senior Manager
415.398.5191
Hensel Phelps Construction
Jeff Bennett, Project Manager
408-452-1800

Mendota Federal Prison
AW/HSMM/QUAD Joint Venture
Arrington Watkins Architects
Lynn Arrington, Project Manager
602.279.4373
Federal Bureau of Prisons
Diane Vaughn
202-514-5942

CSP Kern County at Delano
Candy Roberts, State of CA Project Manager
916-648-6545
Kaplan McLaughlin Diaz Architects
Ivan Romero, Project Manager
415-398-5191
Kitchell, Capital Expenditure Managers
916-442-6996

Jonathan N. Marshall
Project Manager

Education:
College of San Mateo

Professional Associations/Affiliations:
Foodservice Consultants Society International

Registration:
Foodservice Consultants Society International, 1984

Professional Experience:
1968 - Present Principal, The Marshall Associates, Inc.

Jonathan has been with The Marshall Associates for the past 44 years. Jonathan Marshall and Steve Marshall are partners in the firm and bring together over 80 years of Foodservice consulting experience. Jonathan has been the Principal-In-Charge of various projects including corporate cafeterias, hospitals, restaurants, clubs, health care projects, community centers, hotels, schools and correctional projects. His specialty is in the management of Construction Documents, Preparation and Construction Administration. He is also in charge of Project Design, Specifications, Cost Estimating, Field Supervision, Client Liaison and is the firm's Financial Manager. The majority of his work is in the Construction Administration for all projects. This method has been proven successful for over 2,000 projects. He oversees a full time staff of designers, technical assistants and construction staff.

References:

Alameda County Juvenile Justice Center
Hellmuth Obata + Kassabaum Architects
Catherine Chan, Project Manager
415-243-0555
Hensel Phelps Construction
Jeff Bennett, Project Manager
408-452-1800

San Mateo County Youth Services Center
Kaplan McLaughlin Diaz Architects
Robert Fierro, Project Manager
415.398.5191
Turner Construction
Craig T. Jones
415-705-8900

SVP Coalinga
California Dept of Mental Health
Jack Streigel, Owner Representative
916-654-3890
Kaplan McLaughlin Diaz Architects
John MacAllister, Senior Manager
415.398.5191
Hensel Phelps Construction
Jeff Bennett, Project Manager
408-452-1800

Mendota Federal Prison
AW/HSMM/QUAD Joint Venture
Arrington Watkins Architects
Lynn Arrington, Project Manager
602.279.4373
Federal Bureau of Prisons
Diane Vaughn
202-514-5942

CSP Kern County at Delano
Candy Roberts, State of CA Project Manager
916-648-6545
Kaplan McLaughlin Diaz Architects
Ivan Romero, Project Manager
415-398-5191
Kitchell, Capital Expenditure Managers
916-442-6996

Mark Walsh

Vice President Construction Documents, AutoCAD/Project Manager

Education:
Denver Technical College, AA/1979/Architecture

Professional Associations/Affiliations:
Foodservice Consultants Society International

Registration:
Foodservice Consultants Society International, 1998

Professional Experience:
1988 - Present, The Marshall Associates, Inc.

Mark has been with The Marshall Associates for the past 24 years. Mark also has an additional 6 years experience he brings to us. He provides project direction for all of the projects including corporate cafeterias universities and colleges, restaurants, clubs, health care projects, community centers, hotels, schools and hospitals. Mark manages the firm's AutoCAD and design systems. The majority of his work is in the preparation and programming of Construction Documents for all projects.

References:

Alameda County Juvenile Justice Center
Hellmuth Obata + Kassabaum Architects
Catherine Chan, Project Manager
415-243-0555
Hensel Phelps Construction
Jeff Bennett, Project Manager
408-452-1800

San Mateo County Youth Services Center
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Turner Construction
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415-705-8900

SVP Coalinga
California Dept of Mental Health
Jack Streigel, Owner Representative
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Kaplan McLaughlin Diaz Architects
John MacAllister, Senior Manager
415.398.5191
Hensel Phelps Construction
Jeff Bennett, Project Manager
408-452-1800

Mendota Federal Prison
AW/HSMM/QUAD Joint Venture
Arrington Watkins Architects
Lynn Arrington, Project Manager
602.279.4373
Federal Bureau of Prisons
Diane Vaughn
202-514-5942

CSP Kern County at Delano
Candy Roberts, State of CA Project Manager
916-648-6545
Kaplan McLaughlin Diaz Architects
Ivan Romero, Project Manager
415-398-5191
Kitchell, Capital Expenditure Managers
916-442-6996

The Fire Consultants, Inc.

JEFFREY A. MADDOX, P. E.

Jeffrey A. Maddox is a Principal of The Fire Consultants Inc. and is a registered fire protection engineer with over 20 years of experience in fire protection, building code consulting and system design. He is registered as a Fire Protection Engineer in California and as a Professional Engineer in Oregon and Colorado. Mr. Maddox holds a Bachelor of Science degree in Fire Protection Engineering from the University of Maryland, College Park, 1986.

Mr. Maddox has worked with architects, developers, owners and authorities having jurisdiction to determine code compliance. He has been involved with the review of architectural projects through the design phase and during construction. He has prepared due diligence and fire protection evaluation reports and is familiar with state, local and federal accessibility requirements. He has extensive experience with detention/correctional, justice, and high rise buildings. He also has experience with hotels, atria, educational, renovated, and mixed-use facilities in the U.S. and abroad.

Mr. Maddox has used timed exiting, fire resistance heat transfer principles, smoke development, and fire growth models as part of the justification for approval of modifications to fire protection requirements. He has been involved with projects utilizing base isolation systems and has developed fire protection concepts for these systems. He has developed operational and testing criteria for smoke control systems in detention/correctional facilities, high rise buildings, malls, atriums, and large industrial facilities.

Mr. Maddox has current or previous professional affiliations with the National Fire Protection Association (NFPA), Society of Fire Protection Engineers (SFPE), Salamander Honorary Fire Protection Engineering Society, ASHRAE Technical Committee 5.6, Smoke Management and NFPA Safety to Life Project Assembly, Fire Protection Features Committees. Mr. Maddox is a member of the California State Fire Marshal's Task Group on code changes for Group I-3 occupancies.

Mr. Maddox's detention/correctional and justice experience includes:

- Numerous Federal Detention and Correctional Facilities in California, Nevada, Hawaii, Arizona, Guam, and Washington.

- Numerous State Prisons in San Quentin and Modesto, California; Lovelock, Nevada; Umatilla and Hillsboro Oregon, and Matanuska Susitna Alaska.

- Numerous Local Jails and Detention Facilities in Phoenix Arizona, Alameda County and San Francisco California.

- Numerous Federal Courthouses in Los Angeles, San Francisco, Oakland, Seattle, Portland and Phoenix and Denver.

- Numerous State and Local Courthouses in San Francisco, Los Angeles and Seattle.

The following are Technical Papers, Publications, and Speeches that Mr. Maddox has contributed:

- "Fire Protection for Asymmetric Atria," two case studies, Society of Fire Protection Engineers, Rocky Mountain Chapter, 1991.

- "Smoke Control System Design for Atria," National Fire Protection Association Annual Meeting, 1994.

- "Smoke Control and High Rise Office buildings with Operable Windows: Two Case Studies," ASHRAE Winter Meeting 2004.

- "Computer Modeling and Fire Tests Used to Verify Fire Resistance of Various Wall Assemblies," Interflam 2004, Edinburgh, Scotland.

- "Smoke Control in Buildings with Operable Windows," Pacific Energy Center Seminar, 2005.

- "An FDS Analysis of Sprinkler and Draft Stops at Floor Openings," International Conference on Performance-Based Codes and Fire Safety Design Methods, Tokyo, Japan, 2006.

References:

Mr. Steve Guarino, Office of the State Fire Marshal (916) 341-6641
Mr. Royal Field, Neeser Construction (907) 276-1058
Mr. Steve Taylor, Taylor Engineering (510) 749-9135
Mr. Giyan Senaratne, City of Emeryville and WC3 Consultants (925) 275-1700

Richard L. Engler, AIA

Role: Principal

Education:

Bachelor of Architecture, University of Nebraska- Architecture-1963
Registered Architect-California-C 9875

Professional Affiliations:

American Institute of Architects

Architecture for Justice

Society of Forensic Engineers and

Scientists

American Correctional Association

Years of Experience

35+ Years
10+ As Principal and Owner of EAMI
25+ With other Firms

Highlights:

Richard Engler has been a Consultant to the Receiver since 2006. Mr. Engler's role as the Receivers Consultant consists of the review of all budget approval documents for the building upgrades to the 33 California State Prisons. Additionally, Richard is an active member of the Society of Forensic Engineers & Scientists and the American Institute of Architects. Mr. Engler carries an architectural license in the State of California

Richard Engler is a licensed Architect with a specialization in the area of expert witness services related to architecture, engineering, programming and a variety of comparative elements within the A/E/C industry. Since the mid 1980's Richard has served as an expert witness for issues regarding standard of care, construction defects, personal injury and wrongful death resulting from design and construction claims This service has been provided for criminal justice projects, health care facilities, arenas, research facilities, office buildings, condominium projects and a wide variety of other projects types.

Relevant Experience:

Northern California Reentry Facility

CDCR-CIW- 45 Bed Acute/Intermediate Care Facility

California Men's Colony

Salinas Valley State Prison

Salt River Pima-Maricopa Indian Community

Detention Facility

CDCR-DJJ-Karl Holton-Northern California Core

Treatment Facility

CDCR-DJJ-Juvenile Master-Plan Statewide Crime

Study

CDCR-Kern Valley State Prison Infill beds

CDCR-Kern Valley State Prison-Infill Housing &

Program Space-500 bed level II Facility

CDCR-CMF Mental Health Crisis Facility

Sacramento County Juvenile Justice Center

RCC - Roger Bauman Facility

Ventura-CYA Mental Health Clinic

John L. Moreno

Role: Chief Estimator/Project Manager

Education:
College credits equivalent to an AA degree with emphasis in Construction-Butte C.C, Chico, CA
RS Means Electrical Estimating
RS Means Mechanical Estimating
UC-Davis, CSUS & ARC-Estimating & Construction Management

Professional Affiliations:
Construction Specification Institute, Professional Member, (CSI)
Associated General Contractors, Associate Member, (AGC)
American Society of Professional Estimators, (ASPE) Member
Construction Management Association of America, Member, (CMAA)

Years of Experience:
19+ years

Demonstrated Accomplishments:
Associate Editor- Saylor Construction Cost Books
Associate Editor- LSI Cost Index- ENR Magazine

Professional Lectures & Speaking Engagements:
Construction Management Association of America
Sacramento & Oakland, CA Chapters-
Construction Inflation- April 2007-
Construction Inflation- July 2007
Concrete Masonry Association of California & Nevada-
Masonry Comparison and Inflationary Trends- May 2008
Western Council of Construction Consumers- Northern & Southern, CA
Lease Lease-Back –Construction Delivery- June 2008
Lease Lease-Back-Advantages/ Disadvantages, Legal Ramifications &
Program Implementation Considerations- September 2008

John Moreno, Principal and Chief Estimator of Engler Assessment Management International- (EAMI), leads the cost estimating efforts for EAMI. He works closely with the entire Team through each phase of the project to provide a series of successively refined estimates as the project scope is clarified to assure that the project remains within the budget.

Mr. Moreno offers a diverse range of construction expertise. He brings with him over 18 years of experience in construction and estimating. Specializing in mechanical and electrical work, his participation ranges from the conceptual planning phase through design and final construction His experience includes cost/risk analysis; life cycle cost; cost benefit analysis; value engineering & variance comparison reports in addition to his actual "hands on" work experience.

Relevant Experience:

Northern California Reentry Facility

CDCR-CIW- 45 Bed Acute/Intermediate Care Facility

California Men's Colony

Salinas Valley State Prison

Salt River Pima-Maricopa Indian Community Detention Facility

CDCR-DJJ-Karl Holton-Northern California Core Treatment Facility

CDCR-DJJ-Juvenile Master-Plan Statewide Crime Study

CDCR-Kern Valley State Prison Infill beds

CDCR-Kern Valley State Prison-Infill Housing & Program Space-500 bed level II Facility

CDCR-CMF Mental Health Crisis Facility

Sacramento County Juvenile Justice Center

RCC - Roger Bauman Facility

Ventura-CYA Mental Health Clinic

OFFICE LOCATION
San Francisco

PHONE NUMBER
559.222.7793

YEARS WITH FIRM
22 Years

EDUCATION

Ph.D. Sociology, University of California, Berkeley

Master of Arts Sociology, San Francisco State University

Bachelor of Arts, Sociology, University of California, Davis

MEMBERSHIPS
Academy of Criminal Justice Sciences
American Society of Criminology
The Western Society of Criminology
Association of California Criminal Justice Researchers

REFERENCES
Ms. Wendy Still, Chief Probation Officer, San Francisco
415-309-9132
Wendy. Still@sfgov.org

Dr. Kay Hickman, Coordinator, Fresno County Community Corrections Partnership
599 476 0495
kmhickman@co.fresno.ca.us

Mr. Alex Busansky, President, National Council on Crime and Delinquency
510 208 0504
abusansky@sf.nccd-crc.org

BARBARA OWEN

Project Role: Women's Detention Specialist

Barbara Owen is a nationally-known expert in the areas of girls, women and crime, women-centered policy and women's prison culture. A Professor of Criminology at California State University, Fresno, she received her Ph.D. in Sociology from UC Berkeley in 1984. The author of 20 articles and chapters, numerous technical reports, her books include In the Mix: Struggle and Survival in a Women's Prison (SUNY Press, 1998). Along with Barbara Bloom and Stephanie Covington, she has co-authored a major report, Gender-Responsive Strategies: Research, Practice, and Guiding Principles for Women Offenders (2003). Recent projects include an analysis of women's recidivism and an NIJ-sponsored four-state study that investigated the context of sexual assault in women's prisons and jails. She is currently developing research and policy on women's issues in an international and human rights context. Barbara has prior experience working with HOK.

REPRESENTATIVE PROFESSIONAL RESEARCH EXPERIENCE

2006 - 2008
Principal Investigator, Gendered Violence and Safety, NIJ Grant

2004-2006
Principal Investigator, Recidivism among Female Prisoners: Secondary Analysis of the 1994 BJS Recidivism Data Set, NIJ Grant

2003-present
Researcher, The Prison Rape Elimination Act, The Moss Group, Inc., NIC Grant

1999-2003
Co-Principal Investigator, Gender-Responsive Strategies, NIC Grant

1997-2002
Principal Investigator, Repeat Offender Prevention Project, OCJP grant

1997-1998
Principal Investigator, OCJP Gender-Specific Project

1996-1997
Principal Investigator, CYA Female Ward Project, NIC grant

1995-present
Consultant, Barbara Bloom & Associates

1995
Adjunct Research Professor, UC Riverside (CDC Female Inmate Project)

1991-1993
Researcher, Drug Abuse Research Group, UCLA

1986-1990
Research Analyst, Federal Bureau of Prisons

1985-1986
Post-Doctoral Fellow, Alcohol Research Group

1983-1984
Field Researcher, Alcohol Research Group

1981-1983
Senior Researcher, Institute for Law and Policy Planning

LEED Certified *Award Winning*

San Mateo Replacement Correctional Facility

San Mateo, CA

Building Envelope Design Consultant Qualifications

29 February 2012

SIMPSON GUMPERTZ & HEGER

Engineering of Structures
and Building Enclosures

PREPARED FOR:

Ms. Catherine Chan
Vice President
Justice Group Director
HOK
One Bush Street, Suite 200
San Francisco, California 94104
catherine.chan@hok.com

PREPARED BY:

Simpson Gumpertz & Heger Inc.
The Landmark @ One Market #600
San Francisco, CA 94105
Tel: 415.495.3700
Fax: 415.495.3550

www.sgh.com

Table of Contents

GENERAL INFORMATION | CAPABILITIES

Simpson Gumpertz & Heger (SGH) is a national engineering firm that designs, investigates, and rehabilitates structures and building enclosures. Our award-winning work encompasses building, transportation, nuclear, water/wastewater, and science/defense projects throughout the United States and in more than thirty other countries.

Clients choose to work with us because

- We **collaborate** with clients and project team members.
- We **engage** our extensive expertise.
- We **focus** on delivering successful results.
- We **respond** to project challenges.

Our goals are simple: earn the lasting trust of our clients, gain the respect of our most capable peers, and further the standards of practice in all areas of our profession.

Engineering of Structures and Building Enclosures

SGH's services are supported by technical capabilities including:

- Building Envelope Engineering
- Structural Engineering
- Engineering Mechanics
- Building Science
- Construction Engineering
- Engineering for Extreme Environments
- Preservation Technology
- Materials Science and Engineering
- Field and Laboratory Testing

Our People

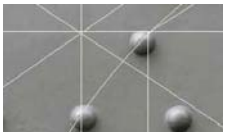
Our diverse team members include engineers, architects, scientists, and many other technical professionals. Most importantly, our highly qualified staff members are led by principals and project managers who average twenty years of employment with SGH. These leaders provide quality of service and team continuity to support our long term client relationships.

Company Facts and Figures

- Recipient of over 300 awards and recognitions
- More than 400 employees in five offices: Boston, Los Angeles, New York, San Francisco, Washington, DC
- Member of the Global Design Alliance

Simpson Gumpertz & Heger Inc. (SGH) Founded in 1956, Simpson Gumpertz & Heger Inc. (SGH) is ranked in the top ENR 500 of consulting engineering firm specializing in the design, investigation, and retrofit of buildings and structures of all types. SGH has played an important role in the development and advancement of building technology for the application of engineering principles to analyze roofing, wall cladding, and waterproofing behavior. In addition, **SGH has served the architecture and building construction community in the Bay Area for over 30 years and is a recognized leader in building envelope systems and building**

WATERPROOFING DESIGN



Keeping the inside of a building protected from the elements requires a combination of tried-and-true methods and appropriate materials. Making sure this combination results in a working system is critical as more structures are built underground, renovated for change of use, or rehabilitated to extend their useful life.

Our Approach

SGH applies decades of building technology, design experience, and proven methods of investigation to avoid or resolve roofing and waterproofing problems. Our client base is diverse and includes building owners, attorneys, contractors, and architects, who look to SGH to provide well-articulated and technically sound solutions. *Our strengths include:*

- Mastery of individual roofing and waterproofing components, systems and materials, and a complete understanding of how these integrate to create a "waterproofing system."
- The ability to work within the parameters of the client's risk tolerance and budget to provide the most appropriate and effective waterproofing solution.
- Design and material understanding combined with solid structural expertise that allows architects and owners to implement unique designs.
- Unparalleled investigative capabilities in building technology, including in-house lab analysis and in-situ testing that uncovers the sources, not just the symptoms, of leakage.
- Leadership roles in education and industry organizations such as ASTM International to help shape the evolution of waterproofing practices.

We **focus** on delivering successful results through the comprehensive application of sound engineering and scientific principles.

SGH Design

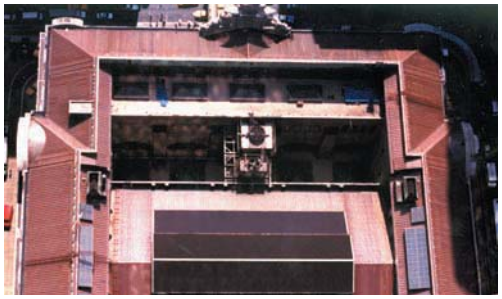
SGH is practical, responsive, and focused on helping the entire project team, including owners/developers, architects, and contractors, succeed in realizing their visions and goals. SGH has achieved this through its national and international practice. Clients look to SGH to provide efficient and cost-effective designs for all types of buildings and structures. *Our strengths include:*

Commitment to reduce project costs, ease construction, improve serviceability, and otherwise produce a better project.
Flexibility in meeting project timeline requirements that can include fast-track, design-build, or the conventional iterative process of traditional methods.
Broad experience with structural systems and materials including those that are effective in withstanding wind, seismic, and blast loads.
Knowledge of construction material availability, contractor capability, and code requirements throughout the United States and abroad.
Access to in-house advanced technologies that make even the most challenging project possible.
Demonstrated ability to deliver quality project documents to assure bid clarity and to avoid change orders, claims, and project delays.

CAPABILITY

Building Envelope Engineering

Building envelopes are complex systems with components that must work in unison to shield building occupants and contents from the weather, effectively retain conditioned air, manage moisture migration, remain stable and durable, and do all this while being aesthetically pleasing.



From top left clockwise: Aquarium of the Pacific, Long Beach, CA; Grand Central Terminal, New York, NY; Copley Square Fountain, Boston, MA; Ronald Reagan International Airport, Washington, DC.

Understanding how various components of a building envelope system interact is vital to successful performance. SGH has extensive experience with all elements of the building envelope including roofs, walls, plaza decks, and below-grade waterproofing. Our expertise encompasses a wide range of issues including waterproofing transitions and detailing, durability, and energy efficiency.

Our Approach

We use our accumulated knowledge from our project work, standards development, and product reviews to help clients achieve the most appropriate, durable, and cost-effective building envelope solution that meets their objectives. SGH brings together practical design and field expertise in the following areas:

- New designs and peer reviews
- Failure investigations and dispute resolution
- Renovation and restoration
- Construction monitoring and contract administration of construction

Roofing and Waterproofing

PARTIAL LIST OF PROJECTS

Arterra, San Francisco, CA

499 Illinois, San Francisco, CA

Boalt Hall School of Law, University of California at Berkeley

California Academy of Sciences, San Francisco, CA

California Pacific Medical Center, Cathedral Hill, San Francisco, CA

Intercontinental Hotel, San Francisco, CA

Letterman Digital Arts Center, Lucas Film Ltd., San Francisco, CA

Richmond Memorial Civic Center, Richmond, CA

Santana Row, San Jose, CA

San Francisco General Hospital Rebuild, Ssan Francisco, CA

The Brannan, San Francisco, CA

Clockwise from top left: The Brannan, San Francisco, CA; University of California, Berkeley, Doe/Moffitt Library Annex, Berkeley, CA; Palace of the Legion of Honor, San Francisco, CA; de Young Museum, San Francisco, CA

Keeping the inside of a building protected from the elements requires a combination of tried-and-true methods and appropriate materials. Making sure this combination results in a working system is critical as more structures are built underground, renovated for change of use, or rehabilitated to extend their useful life.

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- Leadership roles in education and industry organizations such as ASTM International to help shape the evolution of waterproofing practices.

Building Science

The systems used to protect the exterior of structures from the environment and to provide an appropriate interior climate should be designed to address air flow, heat exchange, and vapor drive. Air flows, heat loads, and moisture loads vary regionally and from location to location within a single structure. Indications of poor building performance include condensation, mold growth, excessive energy utilization, and uncomfortable interiors.

SGH identifies and resolves building science issues and their effects through our understanding of building systems, interior and exterior environmental conditions, regional climates, air and vapor pressures, and control systems. Our knowledge of building technologies, understanding of mold and mildew, and use of advanced computer modeling software, material analysis, and mechanical engineering are applied in a variety of settings:

- Specialty Building Design
- Envelope Investigation and Repair
- Mechanical Systems
- Mold and Mildew Remediation

Our Approach

SGH offers a bridge between architects and mechanical engineers by being able to evaluate the building envelope with the HVAC control system. We work extensively with architects, contractors, building owners, and mechanical engineers to provide lasting solutions to air, heat, and moisture-related problems.

Top photo: Beinecke Rare Book Library, Yale University, New Haven, CT; Bottom photo: New Museum of Contemporary Art, New York, NY

Below-grade Waterproofing

PARTIAL LIST OF CLIENTS

Cross Campus Library, Yale University

Beinecke Rare Book Library, Yale University

Center for African, Near Eastern and Asian Cultures, Smithsonian Institution

Philip Morris Cabarrus Plant Expansion

Pentagon Logistical Support

Extension and West Parade Ground

Mullins Arena, University of Massachusetts

Mercy Medical Plaza, Mercy Healthcare

Doe/Moffit Library, University of California, Berkeley

The Moscone Center, San Francisco Redevelopment Agency

Below-grade waterproofing protects buildings, buried structures, and their contents from moisture, hydrostatic ponding, and soil-borne chemicals. Providing this protection requires close coordination with construction of heavy structured elements and management of subsurface groundwater. Additionally, once construction is complete, access to the waterproofing exterior is severely limited, and repair efforts result in considerable disruption and cost.

Our Approach

For over three decades, SGH has been at the forefront of below-grade waterproofing system development. Through our knowledge in materials, foundation and below-ground construction, and waterproofing, SGH has helped to define the industry and continues to play a key role in its development.

In addition to helping building owners through the intricacies of underground design options, we guide other structural engineers and architects through design and construction phase decisions that are critical to achieving successful below-ground waterproofing projects. We also provide field supervision and troubleshooting during construction, especially when construction sequence and coordination problems develop.

Sustainable Design

Sustainable development, as defined in the United Nations World Commission on the Environment and Development's Brundtland Report, is "development that meets the needs of the present without compromising the ability of future generations to meet their own needs." Design that minimizes the use of natural resources and maintains a healthy environment both inside and outside the building helps achieve this goal. Structural and envelope engineers are important members of any project team where the reduction of negative environmental impacts is a goal.

Building products and materials need to be considered in relation to their context within a building. A low-embodied-energy material that doesn't last becomes a high turnover material and, therefore, may be an environmentally unsound choice. By examining the life-cycle of a building, and its component sub-systems, we make a critical step in achieving the promise of sustainability. Our studies, commissioned by building material manufacturers, provide a basis for comparing long-term environmental value of these building components.

Clockwise from top left: Sidwell Friends School, Washington, DC, LEED Platinum-rating; Macallen Building Condominiums, Boston, MA, LEED Gold-rating; Folsom + Dore Apartments, San Francisco, CA, LEED Silver-rating; California Academy of Sciences, San Francisco, CA, LEED Platinum rating; Lawrence Berkeley National Laboratory, Molecular Foundry, Berkeley CA, LEED Gold-rating.

Our Approach

SGH integrates sustainability practices in its design, investigation, and rehabilitation projects. Our green practices focus on energy efficiency, indoor environmental quality (IEQ), and durability, and include:

- Building energy modeling with an emphasis on building envelope performance.
- Heat, air and moisture migration studies (i.e. building science) with extensive analytical experience (e.g. WUFI, computational fluid dynamics, and Energy Plus software).
- Envelope commissioning, peer review, and post-occupancy assessment.
- Daylight modeling and shading studies.
- Design of green roofs, building enclosures, and structures.
- Building component, system durability, and forensic studies.

PROJECTS

Project Name *(Note the following project criteria. Do not include projects that do not qualify under these criteria to facilitate our review)* *1. Detention or correctional projects completed within the last 10 years only. That is, you can only include projects completed since 2002.* *2. Construction cost of $25M or above.* *3. Your scope of service on those detention or correctional projects was full service design for a new facility, not a minor retrofit.*	Project Information										Location			Delivery		Teaming Experience					Comments *(include any additional key info you would like us to know about this project - please be brief!)*
	Year of Completion	Construction Cost *(in $Millions)*	Gross Area *(in square feet)*	No. of Beds (Design Capacity)	Direct Supervision	No. of Building(s)	No. of Storey(s)	LEED Certification *(None, Certified, Silver, Gold or Platinum)*	BIM Usage *(answer yes if a design model was created for coordination and deliverable)*	New Facility - Full Service Design *(not part of TI project)*	Redwood City (RWC)	San Mateo County (SMC) *(if not in RWC)*	State of CA *(if not in RWC/SMC)*	CM at Risk	Design-Build	Direct Relevant Experience - *Have one or more of your proposed key personnel worked on this project?*	HOK	Hensel Phelps	McCarthy	Sundt-Layton	
Example: ABC Detention Facility	2011	$110M	350,000	400	Yes	1	3	Silver	Yes	Yes		Yes		Yes		Yes	Yes		Yes		
San Mateo County Youth Services Center	2007	$130M	300,000	180	No	1	2	Silver	No	Yes		Yes		Yes		Yes	Yes				Decareau supervised hygrothermal, waterproofing consultation; BIM not required for scope.
San Quentin Central Health Services Building	2009	$136M	135,000	54	No	1	5	Gold	No	Yes			Yes		Yes	Yes	Yes	Yes			Decareau supervised hygrothermal, waterproofing consultation; BIM not required for scope.
San Diego Women's Detention Facility	est. 2015	$221M	513,000	1216	No	34	2	Gold	Yes	Yes			Yes		Yes	Yes	No				Decareau supervised hygrothermal, waterproofing consultation.
California Dept. of Corrections and Rehabilitation Housing and Health Care Facilities, Stockton, CA	est. 2013	$906M	1.2M	1722	No	32	2	None	No	Yes			Yes		Yes		No				Decareau supervised hygrothermal consultation; BIM not required for scope.

SUPPORTING PROJECT LIST

SELECTED PROJECTS | CORRECTIONAL FACILITIES | FIRM EXPERIENCE

California Department of Corrections and Rehabilitation and California Health Care Services, Stockton Housing & Health Care Project, Stockton, CA
SGH is the waterproofing design consultant for this design-build fast track project comprising of housing and health care facilities for 1,722 patient inmates. Facilities will include a diagnostics and treatment center, program spaces, and administrative support spaces. The project totals 1.2 million sq ft and will cost an estimated $906 million. The project is LEED Silver certified.

California Department of Corrections and Rehabilitation, San Quentin State Prison, San Quentin, CA
SGH holds and Indefinite Delivery Order Contract with the State of California, Department of Corrections, to perform peer reviews and plan checks of high-security buildings and buildings essential to serving these buildings at State Correctional institutions. Under this contract, SGH performed peer review of a new condemned Inmate complex at San Quentin. The complex included a new cell block structure, new execution chamber, dining facilities, visitors' reception center, laundry, infirmary, laundry and guard stations. SGH provided review of the design at 50% and 100% Design Development states, prior to cancellation of the project by the Governor.

Highlights:
- Review criteria was in accordance with the California Administrative Code, Title 24
- Buildings were founded on a complex mix of near-surface rock, alluvial fills and deep bay muds requiring a variety of foundation systems.

SGH's scope of work was to ensure that the facilities meet State of California Building Code Requirements for essential structures.

D. Ray James Prison, Folkston, GA
SGH investigated a condition in which new quarry tile was lifting in a kitchen floor application. SGH determined that constant ponding of water on the kitchen floor caused the clay tile to swell. There were no soft joints in the floor, and in turn, the swelling created stress that eventually lifted the tiles.

Federal Correctional Institution, Medium-High Security Facility, Roofing Investigation and Engineering Consulting Services, Butner, NC
SGH completed a roofing investigation at the Federal Corrections Institute (FCI) Medium-High Security Facility in Butner, NC. The project involved an initial investigation of the existing TPO roofing assembly and components. The facility includes three four-story General Housing Units (GHUs) and a two-story Special Housing Unit (SHU) in addition to other buildings. These four buildings consist of precast concrete exterior walls, cast-in-place concrete interior walls, and precast concrete roof planks with a concrete topping slab. All four buildings are covered with a fully-adhered single-ply TPO roofing membrane. SGH made sample openings in the roofing assembly on all four buildings, documented concealed conditions, and provided a report with recommendations for roofing replacement. SGH also consulted on the design of the new roofing assembly and provided suggestions for alternative roofing assemblies.

Federal Correctional Institution, Pleasanton, CA
The scope of work involved structural engineering for a single-story, 22,000 sq ft case goods factory building constructed with glulam beams and open web joist roof and a 15,000 sq ft steel frame warehouse with loading docks and ramps.

The "Hotel California," NORCO, CA
After years of extensive water damage and general neglect, the facility had experienced significant deterioration. In response to the State of California's need to satisfy a federal oversight panel to condemn the facility, SGH worked with the Department of Corrections and Kitchell CEM to perform a condition survey of the historic Hotel California, now the Norco California Rehabilitation Center. This 200,000 sq ft Mission Revival style building is listed on the National Register of Historic Places. The Hotel was built in 1929 as a luxury resort hotel. During World War II, the 700 acre site was taken by the U.S. Navy. In 1942, The Navy constructed Building 107, which includes the structures: "Wards A, B, and C" and "Connecting Wards 1 and 2" in 1942 as part of this conversation. Each of the structures is long and narrow in plan shape and are cast-in-place, reinforced concrete bearing wall construction. Each vary in height from 4 to 5-stories. At the close of World War II, the site was turned over to the California Department of Corrections, who now operates the property as an in-custody substance abuse program.

SELECTED PROJECTS | CORRECTIONAL FACILITIES | FIRM EXPERIENCE

Highlights:
SGH performed the following on the Building 107 structures:

- Reviewed available original drawings for the structures
- Performed on-site surveys to observe physical condition
- Conducted a preliminary seismic evaluation, using a web-based application provided by the United States Geologic Survey
- Prepared an engineering report indicating that although the building sustained structural damage and did not conform to modern standards of seismic resistance; it did not represent a severe seismic risk and conformed to criteria adopted by the State of CA for existing buildings that remain in service.

Joint Regional Correctional Facility South, Miramar Brigade, Marine Corps, Air Station, Miramar, CA
SGH's current design consultation includes recommending roofing systems, providing product data, sketching special roofing details, and reviewing the Architect's final roofing drawings and specifications. SGH will provide a letter verifying that the roofing design is in accordance with the current edition of NRCA Roofing and Waterproofing Manual, the Client's latest published Unified Facilities Criteria (UFC) and Request for Proposal (RFP), and standard industry practices and building codes. SGH will also provide Quality Control as a Registered Roof Observer per the Client's Unified Facilities Guide Specifications (UFGS) Section 01 45 00.05 20, Design and Construction Quality Control. The Joint Regional Correctional Facility Southwest project will be a 100,000 sq ft multi-story concrete masonry unit (CMU) and poured-in-place concrete correctional facility housing 200 prisoners and supporting facilities.

Massachusetts State Correctional Institution, Bridgewater, MA
SGH investigated curling and excessive shrinkage of vinyl composition tile installed in the common areas.

Massachusetts State Correctional Institution, Norfolk, MA
The Norfolk Prison, constructed in the 1930s, once housed a tuberculosis ward with roof top gardens and penthouses. Dormitory buildings with ashlar stone walls, steep sloped slate roofs, and shed dormers are arranged on two sides of a long quadrangle that includes a two-story school building at one end and a brick masonry hospital, receiving, and administrative building complex at the other. The school building is an impressive Greek revival structure with red brick and ashlar stone walls and a mottled purple slate, hip roof. Many of the original built-up and slate roofs, and the copper eaves, gutters, down spouts, and valley flashings throughout the institution were at the end of their useful life. SGH specified repairs and reconstruction, provided contract administration services, and monitored the work including reconstruction of built-up and slate roofs on the hospital, receiving, and administration buildings. We also provided reconstruction and repairs of slate roofing, red copper flashing and trim on dormitories and the school building; reconstruction of shed dormers, gutters, downspouts, and low slope roofs with EPDM roofing and red copper; and wall repair and reconstruction of brick masonry, cast stone and red copper flashing.

San Joaquin County Jail Addition, Stockton, CA
The scope of work involved structural engineering for a one-story 24,000 sq ft minimum-security facility, of wood-frame construction.

Suffolk County House of Correction and Nashua Street Jail, Boston, MA
The Suffolk House of Correction and Jail consists of seven buildings ranging in height from three to fifteen floors. The buildings demonstrated leakage of several building envelope systems. The Commonwealth asked us to determine the root causes of the leakage and develop functional repairs. We investigated leakage through roofing, roof top equipment, precast cladding, sloped glazing, metal roofing, curtain walls, and plazas, and developed remedial design and contract documents, and also provided construction administration.

Kaiser Vallejo Medical Center, Hospital Building, Vallejo, CA

California Pacific Medical Center, San Francisco, CA

Kaiser Permanente Los Angeles Medical Center, Los Angeles, CA

Palomar Medical Center West, Escondido, CA

Santa Clara Valley Medical Center, Sunnyvale, CA

BUILDING EVNELOPE DESIGN

HEALTH CARE PROJECTS in California

California Pacific Medical Center, Cathedral Hill Hospital, San Francisco, CA
Building Envelope Design and Peer Review of Structural Design

Catholic Healthcare West, Mercy Medical Center, Merced Replacement Hospital, Merced, CA
Building Envelope Design

Highland Hospital, Oakland, CA
Building Envelope Design

Hoag Memorial Hospital Presbyterian, Newport Beach, CA
Building Envelope Design

John Muir Medical Center Expansion, Walnut Creek, CA
Building Envelope Design

Kaiser Permanente Los Angeles Medical Center, Los Angeles, CA
Building Envelope Design

Kaiser Roseville Women's + Children's Medical Center, Roseville, CA
Building Envelope Design

Kaiser Santa Rosa Medical Center, Hospital Expansion, Santa Rosa, CA
Building Envelope Design

Mills Peninsula Hospital, San Mateo, CA
Building Envelope Design

Mission Hospital New Acute Care Tower, Mission Vallejo, CA
Building Envelope Design

Mount Zion Hospital, San Francisco, CA
Building Envelope Design

Palomar Medical Center West, Escondido, CA
Building Envelope Design

San Francisco General Hospital Rebuild, San Francisco, CA
Building Envelope Design

St. Joseph's Medical Center, Women and Children's Pavilion, Stockton, CA
Building Envelope Design

Santa Clara Valley Medical Center, Valley Specialty Center, Sunnyvale, CA
Building Envelope Design

Stanford University, Lucille Packard Children's Hospital, Palo Alto, CA
Building Envelope Design

UCLA Medical Center Replacement Hospital, Santa Monica, CA
Building Envelope Design

UCSF Medical Center Children's Hospital, San Francisco, CA
Building Envelope Design

Washington Hospital Replacement Hospital Fremont, CA
Building Envelope Design

White Memorial Hospital, Los Angeles, CA
Building Envelope Design

Women's and Children's Center, Sutter Medical Center, Sacramento, CA
Building Envelope Design

SELECTED PROJECTS | VETERANS ADMINISTRATION HEALTHCARE | FIRM EXPERIENCE

- **State Veterans Home, West Los Angeles, CA.**
  Primary: SmithGroup Architects. Waterproofing design consultation.
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- **VA Hospital Palo Alto – Psychiatric Facility, Palo Alto, CA.**
  Primary: McCarthy Building Companies. Building envelope peer review design consultation.
- **Long Beach Veterans Administration Medical Center, Long Beach, CA**.
  Primary: GLHN Architects & Engineers. Structural Engineering services.
- **Clovis Veterans Memorial Building, Clovis, CA**. Roof Replacement Design.
  Primary: Zumwalt Construction.
- **Veterans' Memorial Building, Suisun City, CA**. Design and Construction Documents, Roofing Replacement and Repairs.
- **VA Hospital Mather Air Force Base.**
  Primary: Jacobsen & McElory. Building Envelope investigation consultation
- **Charlotte Veteran's Administration Medical Center, Charlotte, NC.**
  Structural Peer Review, Contract with BBIX.

California Academy of Sciences at Golden Gate Park, San Francisco, CA

Big Blue Bus Facility, Santa Monica, CA

Letterman Digital Arts Center, San Francisco, CA

Sidwell Friends School, Washington, DC

Macallen Building Condominiums, Boston, MA

Lawrence Berkeley National Laboratory, Molecular Foundry, Berkeley, CA

SUSTAINABLE DESIGN

1100 Broadway, Oakland, CA
Structural design of new twenty-story pre-certified LEED Platinum building and preservation of connected seven-story national historic landmark building

245 Summer Street, Boston, MA
Design and construction monitoring for roofing and below-grade waterproofing systems including a new green roofing system for LEED Silver certified building

525 Golden Gate Avenue, San Francisco, CA
Building envelope design of a new fourteen-story office building, seeking LEED Silver certification

Big Blue Bus Maintenance Facility Expansion, Santa Monica, CA
Building envelope and waterproofing consulting for new 66,000 sq ft facility featuring rooftop photovoltaic panels and many other sustainable features.

Blue Cross Blue Shield of Massachusetts, Headquarters Building, Hingham, MA
Building envelope consulting and building science engineering, LEED Silver certified

Boston University Medical Center, BioSquare Discovery and Innovation Center, Research Building D, Boston, MA
Building envelope design peer review of new biomedical research facility, LEED Certified

California Academy of Sciences at Golden Gate Park, San Francisco, CA
Building envelope design consultant for project with a three-acre green roof, LEED Platinum certified

David Brower Center, Berkeley, CA
Building envelope consulting and below-grade waterproofing for a new office building made of 53% recycled material and seeking LEED Platinum certification

De Anza College, Mediated Learning Center, Cupertino, CA
Roofing and waterproofing consulting for new 65,000 sf classroom addition seeking LEED Platinum certification

Folsom + Dore Apartments, San Francisco, CA
Building envelope design peer review of $26.5 million first multifamily housing project in Northern California to receive LEED Silver certification

Harvard Business School, Gallatin Hall Renovations, Boston, MA
Structural engineer for comprehensive building renovations, LEED Gold certified

Harvard University, University Commons, Cowperthwaite Hall, Cambridge, MA
Building envelope design consulting, including roofing and waterproofing, for new six-story residence hall, LEED Gold certified

Internal Revenue Service, Andover, MA
Structural analysis and rehabilitation for renovation to 11-acre building seeking LEED Certification

Jet Propulsion Laboratory, New Administration Building, Sacramento, CA
Structural design for new 96,000 sf high-performance office building seeking LEED Silver certification

Lawrence Berkeley National Laboratory, Molecular Foundry, Berkeley, CA
Building envelope design for roofing and waterproofing of new nanotechnology research facility, the first LEED Gold certified building in the City of Berkeley

Letterman Digital Arts Center, LucasFilm Ltd., San Francisco, CA
Building envelope design of four interconnected buildings with three- and four-story subterranean parking garages built ten feet into the water table on George Lucas' 23-acre Lucasfilm campus — LEED Gold certified

Macallen Building Condominiums, Boston, MA
Structural and building envelope design of a 140-unit building and the first multiunit housing in Boston with LEED Gold certification

1100 Broadway, Oakland, CA

USMC Camp Pendleton Bachelor Enlisted Quarters, Camp Pendleton, CA

University of Rhode Island, Center for Biotechnology & Life Sciences, Kingston, RI

245 Summer Street, Boston, MA

Internal Revenue Service, Andover, MA

Yale University, Kroon Hall, New Haven, CT

New Hope Community/Woodland Terrace Revitalization, Pleasantville, NJ
Structural engineering of 163 housing units using "Optimum Value Engineering (OVE)," a wood framing approach that minimizes the quantity of wood used

NGA New Campus East, Fort Belvoir, VA
Building enclosure consulting including peer review and construction monitoring for new $1.3 billion campus seeking LEED Silver certification

Northeastern University, International Village (Parcel 18), Boston, MA
Building envelope design for two tower, 1200 room dormitory for Kyu Sung Woo Architects, project is seeking LEED Gold certification

Pier 2, Fort Mason Center, San Francisco, CA
Building enclosure rehabilitation for historic 53,500 sf shed building, including consultation on installation of photovoltaic panel system. Project is seeking LEED Gold certification

Plaza Apartments, San Francisco, CA
Building envelope design of 106 units of housing and recipient of 2006 National AIA "Show You're Green" Affordable Green Housing Project award

Richard Bolling Federal Building Modernization, Kansas City, MO
Building enclosure consulting including thermal analysis to improve building envelope efficiency, seeking LEED Silver certification

Richmond Memorial Civic Center, Richmond, CA
Building envelope rehabilitation for auditorium, city hall, and hall of justice experiencing water infiltration problems. Project received LEED Gold certification

San Luis Obispo County Government Center, San Luis Obispo, CA
Structural design of 160,000 sq ft building designed to meet city standards for sustainable practice

Sidwell Friends School, Zavitz Middle School Addition, Washington, DC
Building enclosure commissioning for LEED Platinum certified building

South Station Tower, Boston, MA
Waterproofing design consulting for new 49-story mixed-use that is pre-certified LEED Silver

USMC Camp Pendleton Bachelor Enlisted Quarters (BEQ), Camp Pendleton, CA
Structural engineer-of-record for new BEQ housing for over 1,400 marines in 43 three- to five- story reinforced masonry buildings, encompassing over 700,000 sq ft. The project is seeking LEED Gold certification

University of Michigan, S.T. Dana Building, School of Natural Resources, Ann Arbor, MI
Building envelope investigation and upgrades, LEED Gold certified

University of Rhode Island, Center for Biotechnology and Life Science, Kingston, RI
Structural and building envelope design of a 135,000 sq ft teaching and research building, LEED NC 2.2 Gold certified

Walker Jones Educational and Community Center, Washington, DC
Structural engineer for 125,000 sq ft building applying for LEED Silver certification

Wesleyan University, Molecular and Life Sciences Building, Middletown, CT
Structural design of 221,000 sq ft building, seeking LEED Silver certification

Williams-Sonoma Flagship Store, San Francisco, CA
Structural modification to 18,000 sq ft cast-in-place, concrete, historic building upgraded to current seismic standards and incorporating sustainable design elements

Yale University, Kroon Hall, New Haven, CT
Building envelope consulting for new, four-story, LEED Platinum rated academic building with exterior stone masonry wall system

SELECTED PROJECTS | DESIGN BUILD | FIRM EXPERIENCE

- **California Pacific Medical Center Cathedral Hill, San Francisco, CA.** Waterproofing design consultation and seismic peer review of 14-story replacement hospital comprising of 1.2 million gross sq ft. The structure uses steel moment frames and viscous wall dampers. Designed to Certified LEED for Healthcare.

- **City of Santa Monica Big Blue Bus Expansion Project, Santa Monica, CA.** Building envelope and waterproofing design consultation on expansion of local bus network. The project comprised the demolishing of existing structures, construction of new buildings including the new maintenance building to replace the existing, and re-grading and surfacing of the campus site. SGH was hired by the Architect to assist in the design and coordination efforts with the Contractor. SGH reviewed drawings and specifications, provided details and recommendations, and attended regular design meetings in the preconstruction phase. We reviewed mockup construction to help ensure that the project requirements were met and that non-specified issues were addressed and resolved. SGH worked closely with the Architect and Contractor to respond to RFIs, review submittals, and ensure coordination between subcontractors through meetings and mockup review sessions. Our scope of work for this project included review of fieldwork, continued coordination with the design team, and observation of water testing required by the Contractor.

- **Maricopa County Courthouse Tower, Phoenix, AZ.** The design-build courthouse project is a new sixteen-story building, including two underground floors, encompassing 682,000 sq ft. Designed by Gould Evans and designed as a “100 year” building, the facility features exterior wall assemblies with copper rain screen panels, precast concrete, and adhered stone veneer. SGH provided waterproofing design consultation, including: under-slab systems; below-grade wall and tunnel waterproofing; wall enclosure and window/curtain wall systems; building roofing, flashing, and drainage systems; penetration details at roofs and walls; shop drawing and submittal reviews; and part-time construction monitoring. Designed for LEED Silver certification.

- **Palomar Medical Center West, Escondido, CA.** The Palomar Medical Center West consists of two buildings: a hospital and a central plant. The hospital is separated into two sections: a low rise portion (three stories high) and a 12-story tower. The exterior cladding of both sections includes the following systems: storefront, curtain wall, skylights, window wall, aluminum panels, and FRC panels. The transition between the systems stated above and other building components such as roofing, balconies, and structural elements requires careful detailing and coordination. The new medical building features multiple custom-fabricated curtain wall, window wall, and long-span cladding systems and a 250,000 sq ft façade. SGH served as a consultant to the architect for below-grade and above-grade waterproofing, roofing and exterior cladding during the design phase and provided construction phase services for the below-grade waterproofing work. SGH was later retained by the owner, Palomar Pomerado Health, to provide inspection services during construction for the above-grade waterproofing and roof.

- **Richmond Memorial Civic Center, Richmond, CA.** Building envelope investigation and design of three historic red brick-clad buildings comprising the 180,000 sq ft Richmond Memorial Civic Center. SGH assisted with developing comprehensive repair solutions to mitigate moisture

related issues as an underpinning to the project's modernization. The project included: Complete reroofing of all three building: Masonry repair of brick facades and concrete trim; Replacement of existing below grade waterproofing systems on two of the buildings and design consultation for installation of photovoltaic roof. The project is LEED Gold certified.

- **Sutter Medical Center, Eden Valley Hospital Replacement Project, Castro Valley, CA.** The Sutter Medical Center Castro Valley (SMCCV) is an innovative 7-story, 130-bed replacement hospital totaling 230,000 sq ft. The building is a composite steel Construction of new facility is taking place adjacent to existing Eden Medical Center, which will remain in full operation until the new medical center is complete (est. 2013). SGH is providing waterproofing design consultation to the architect, to include the following: Below-Grade Waterproofing, Low Slope Roof, Vegetative Roof, Curtain Wall and Window Systems and Exterior Wall Cladding.

  The Project is breaking new ground in health care construction by integrating an 11-party Integrated Form of Agreement (IFOA) contract. In previous cases, only the owner, architect and general contractor have signed the agreement and formed the core IPD team. The Project is also utilizing Building Information Modeling (BIM) and California OSHPD phased plan review system: This is one of the first projects to use the OSHPD system, resulting in an overall schedule savings of nearly 12 months.

- **University of California San Francisco, Mt. Zion Medical Office Building.** The project was captured through a design competition with a maximum construction budget limitation. SGH served as structural engineer of record and provided a peer review of the horizontal waterproofing systems. The structure is five-stories tall with a roof garden at the fourth level. The building was designed with perimeter steel moment frames to provide optimum unobstructed views to the exterior. The building is supported on a mat foundation at grade. Since all construction subcontractors were engaged during the design-build process, design decisions were able to be confirmed well in advance of construction. The building is built for LEED Silver Certification.

- **US Coast Guard, Headquarters Building, St. Elizabeth's West Campus, Washington, D.C.** Redevelopment of the St. Elizabeth's campus will include a new 1,300,000 sq ft headquarters building for the U.S. Coast Guard and associated support facilities. SGH is providing building enclosure consulting services to the Clark Construction/WDG Architecture design-build team as a result of Clark's recommendation for the architect to engage us to consult on their enclosure design. The headquarters Building will be a complex array of interconnected building areas primarily clad with a combination of stone and brick masonry with unitized curtain wall assemblies in horizontal ribbon window and continuous curtain wall configurations. The building will include a number of specialty glazing elements, including cable and point supported curtain wall systems, a glass-enclosed pedestrian bridge, and a glass-enclosed elevator. The roof areas will be a combination of courtyard spaces and vegetative building expansion joint configurations. Our services to the architect include both design and construction phase consulting services, including peer review of the building enclosure systems, assisting with detail development, and site visits to observe construction of building enclosure systems.

RESUMES & REFERENCES

SIMPSON GUMPERTZ & HEGER

Engineering of Structures
and Building Enclosures

Christopher P. Decareau, AIA, LEED™

Principal
415-343-3010
CPDecareau@sgh.com

Registrations

Architect
California

Other
LEED™ Accredited Professional, 2004, US Green Building Council

Education

City College of San Francisco, San Francisco, CA
Certification in Air Conditioning and Refrigeration, 2003

University of California, Berkeley, CA
B.A. in Architecture, 1989

Christopher Decareau has over twenty years of experience in the design, investigation, and rehabilitation of contemporary and historic buildings. Mr. Decareau consults with building owners, contractors, architects, and other consultants on water intrusion, air/vapor migration, energy loss/conservation, and life safety code compliance. He routinely resolves designs for prevention of water, air, vapor, and heat loss in exterior walls, windows, curtain walls, roofing, podium, and below-grade assemblies.

Experience

- Simpson Gumpertz & Heger Inc. (SGH), San Francisco, CA, from 1998 to present.
- Rosenberg McGinnis AIA, Inc. (RMAIA), San Francisco, CA, Project Architect from 1991 to 1998.
- Robinson Mills + Williams (RMW), San Francisco, CA, Drafter/3-D Modeler from 1989 to 1991.

Representative Assignments
Unless otherwise specified, all projects listed below are with SGH.

Building Science

- San Diego Women's Detention Facility, Santee, CA. (Principal for condensation analysis and waterproofing of building envelope. Consultant to KMD.)
- Housing and Health Care Facilities, Stockton, CA. (Principal for condensation analysis of building envelope.)
- San Mateo County Youth Services Center, San Mateo, CA. (Principal for condensation analysis of building envelope.)
- Broad Art Museum, Los Angeles, CA. (Principal for condensation analysis and waterproofing of building envelope. Consultant to Gensler/Diller Scofidio + Renfro.)
- Pixar Phase 2, Emeryville, CA. (Principal for condensation analysis and waterproofing of building envelope. Consultant to Allied Works Architecture/Perkins + Will.)
- Clyfford Still Museum, Denver, CO. (Principal for condensation analysis of walls and building elements with humidity-controlled galleries and waterproofing of building envelope. Consultant to Allied Works Architecture.)
- Hall Winery, Napa, CA. (Thermal and moisture modeling to eliminate condensation inside wine cask aging warehouse. Waterproofing design of building envelope. Consultant to Frank Gehry/Lail Design Group. Unbuilt.)
- Los Angeles County Museum of Art, Broad Contemporary Art Museum and Resnick Exhibition Hall, Los Angeles, CA. (Project Manager for condensation analysis of walls and building elements with humidity-controlled galleries. Consultant to Gensler/Renzo Piano Building Workshop.)
- Contemporary Jewish Museum, San Francisco, CA. (Project Manager for condensation analysis of walls and building elements with humidity-controlled galleries. Consultant to WRNS Studio/Studio Daniel Libeskind.)
- Sam Fox Arts Center, University of Washington, St. Louis, MO. (Project Manager for condensation analysis of walls and building elements with humidity-controlled galleries. Consultant to Shah Kawasaki Architects/Fumihiko Maki and Associates.)
- Pulte Glashaus, Emeryville, CA. (Project Manager for condensation analysis of walls and windows for multi-family residential property.)
- Avalon Mission Bay Phase 2, San Francisco, CA. (Project Manager for condensation analysis of walls with passive outdoor ventilation on a seventeen-story multi-family residential building.)

- Custom Residence, Windsor, CA. (Principal for floor coating failure analysis of clear-glazed stained-concrete slab.)
- Kaiser Campus, Vallejo, CA. (Project Manager for condensation analysis of walls where HVAC uses 100% outdoor air.)
- AIMCO Apartments, Northern CA. (Project Manager for investigation and analysis of mold-supporting conditions at multiple properties.)
- Archstone Apartments, Southern CA. (Project Manager for investigation and analysis of construction moisture, paint quality, and apparent biological growth at multiple properties with more than 200 units each constructed in 2003 and 2004.)
- Plaza at Arboretum, Santa Monica, CA. (Project Manager for investigation, computer analysis, and repair documents to mitigate mold-supporting conditions at 350 apartment units constructed in 2001.)
- Main Library, Rohnert Park, CA. (Project Manager for investigation of carpet tile failure over vapor control coating.)
- 1889 Rice Avenue, Oxnard, CA. (Project Architect for investigation and recommendations to mitigate slab-on-grade moisture emissions.)
- KLA/Tencor, Livermore, CA. (Project Architect for investigation of epoxy flooring failure due to chemical incompatibilities in vapor control coating.)
- Mt. View/Los Altos School District, Mt. View, CA. (Project Architect for investigation and recommendations to mitigate mold-supporting conditions in five newly constructed high school buildings.)

Waterproofing

- Broad Art Museum, Los Angeles, CA. (Principal for waterproofing design and construction administration of the building envelope with Gensler/Diller Scofidio + Renfro.)
- Casino and Hotel (Confidential), Northern CA. (Principal for repair documents for passive fire protection construction, fireproofing, metal-panel re-clad, EIFS repairs, replacement windows, miscellaneous flashings, and roofing.)
- State Compensation Insurance Fund, multiple locations, CA. (Principal-in-Charge for investigation and rehabilitation recommendations for water intrusion issues at multi-story office buildings throughout California.)
- ProjectFROG, multiple locations, CA. (Waterproofing and air barrier consultation for prefabricated unitized school buildings.)
- Hewlett-Packard Buildings 4A, 6A and 20. (Principal-in-Charge for below grade, podium, wall and roofing waterproofing. Consultant to Gensler Architecture.)
- Avalon Cedar Ridge, Daly City, CA. (Principal-in-Charge for window replacement, and wall flashing rehabilitation on a 500-unit three-story Type V construction. In coordination with seismic and wood decay repairs by SGH structural group.)
- 525 Golden Gate, San Francisco, CA. (Principal-in-Charge for below-grade foundation waterproofing for a fifteen-story commercial building seeking LEED Platinum certification. Consultant to KMD Architects.)
- Hall Winery, St. Helena, CA. (Principal-in-Charge for below-grade and podium waterproofing of wine cask aging cellar. Consultant to Frank Gehry/Lail Design Group.)
- 499 Illinois Street, San Francisco, CA. (Principal-in-Charge for building enclosure waterproofing of a six-story, biotechnology office building. Assemblies included below-grade foundation, exterior walls, curtain walls, podium deck, and roofs. Consultant to DGA/SKS Investments.)
- Avalon Mission Bay Phase Three, San Francisco, CA. (Principal-in-Charge for building enclosure waterproofing of Arquitectonica-designed fifteen-story high-rise residential and mixed-use development. Assemblies included below-grade foundation, exterior walls, curtain walls, podium deck, and roofs.)
- Avalon Mission Bay Phase Two, San Francisco, CA. (Project Manager for building

enclosure waterproofing of a seventeen-story high-rise residential and mixed-use development. Assemblies included below-grade foundation, exterior walls, curtain walls, podium deck, and roofs.)

- Genentech Campus, South San Francisco, CA. (Principal-in-Charge for multiple building roofing replacements and wall in coordination with SGH structural group seismic retrofits.)
- San Quentin Central Health Services Building, San Quentin, CA. (Project Manager for waterproofing consultation for building envelope.)
- Marketplace Tower, Emeryville, CA. (Project Management of an eight-story commercial building remedial waterproofing, which included window wet sealing and elastomeric coating over EIFS.)
- Valley Specialty Center, Santa Clara, CA. (Peer review services to architect for waterproofing of roof, curtain wall, precast, and below-grade at medical services building. Services included condensation modeling of parapet and curtain wall.)
- Mandela Gateway, Oakland, CA. (Peer review services to architect for waterproofing of roof, walls, windows, and terraces at a new mixed-use affordable housing development.)
- Library Court, Los Angeles, CA. (Peer review services to architect for waterproofing of roof, walls, windows, terraces, and storefronts of a mixed-use residential rehabilitation.)
- New San Luis Obispo County Government Building, San Luis Obispo, CA. (Project Manager for below-grade waterproofing selection, specification, and detailing for architect of record of a new institutional office building.)
- Kaiser Permanente Campus, Santa Rosa, CA. (Project Manager for investigation of mold supporting water intrusion through EIFS and repair documents for recladding of hospital and three associated medical office buildings.)
- Kaiser Permanente MOB4, Santa Rosa, CA. (Project Manager for selection, specification, and detailing of building enclosure waterproofing for architect of record of a new institutional office building.)
- Kaiser Permanente Main and French Campuses, San Francisco, CA. (Project Manager for investigation, analysis, and recommendations for leaking expansion joints and windows.)
- Malibu Meadows, Calabasas, CA. (Project Manager for investigation, litigation support, specifications, repair documents, and contract administration for roofing, windows, and balcony decks at this 600-unit apartment complex.)
- Peters Residence, Corona Del Mar, CA. (Project Manager for investigation, litigation support, specifications, repair documents, and contract administration for waterproofing balcony decks over living space.)
- Casino and Hotel (Confidential), Las Vegas, NV. (Project Manager for investigation, litigation support, specifications, and repair documents for passive fire protection construction, fireproofing, EIFS resealing, windows, and miscellaneous flashings at this fifteen-story 273-room hotel tower built in 1997.)
- 388 Market Street, San Francisco, CA. (Project Manager for investigation, recommendations, repair documents, and contract administration for plaza deck leakage and parking ramp waterproofing.)
- GM Vehicle Engineering Center Tower, Warren, MI. (Project Architect for below-grade waterproofing selection, specification, and detailing for architect of record. New construction.)
- Hill Plaza, San Francisco, CA. (Project Manager for investigation, recommendations, specifications, repair documents, and contract administration for seventh-floor terrace. With RMAIA.)
- Golden Gateway Commons, Blocks One and Two, San Francisco, CA. (Project Manager for investigation, recommendations, specifications, repair documents, and contract administration for wall flashings and balcony decks. With RMAIA.)

Historic Preservation

- First Presbyterian Church, Oakland, CA. (Principal-in-Charge consulting on cast stone and sandstone repointing.)
- Presidio Archaeology Center, San Francisco, CA. (Principal-in-Charge for waterproofing consulting on building conversion to laboratories and offices.)
- 785 Market Street, San Francisco, CA. (Investigate and administrate emergency coating of terra-cotta dome.)
- 225 Bush Street, San Francisco, CA. (Conducted rope access investigation on the twenty-one-story, former Standard Oil Headquarters. A terra-cotta and stone facade with hollow metal windows.)
- Southwest Museum, Los Angeles, CA. (Conducted rope access investigation of Caracol Tower to investigate Northridge Earthquake and water intrusion damage.)
- Old Federal Reserve Bank, Los Angeles, CA. (Project Manager for investigation and recommendations for repairs to a 1931, six-story concrete structure that sustained fire damage to exterior granite cladding, cast bronze grillage, steel windows, and interior travertine.)
- 222 Sutter Street, San Francisco, CA. (Project Architect for investigation and recommendations for repairs to a 1907 terra-cotta clad nine-story building.)
- Handlery Union Square Hotel, San Francisco, CA. Project Manager for investigation, recommendations, repair documents, and contract administration for exterior wall waterproofing and restoration of a 1930s era six-story brick-masonry hotel.)
- Hills Plaza, San Francisco, CA. (Project Manager for investigation, recommendations, repair documents, and contract administration of a multi-phase, partial restoration and repointing of a six-story 1923 transitional brick-masonry office building. With RMAIA.)
- The Francesca at 850 Powell Street, San Francisco, CA. (Project Manager for investigation, recommendations, repair documents, and contract administration for plaster repairs and brick repointing of a nine-story, 1928 transitional masonry residential building on Nob Hill. With RMAIA.)

Contemporary Curtain Walls

- One Kearny Office Building, San Francisco, CA. (Consultant to contractor for peer reviewing designer and their consultant for a ten-story curtain wall.)
- Peninsula Office Buildings, multiple sites in San Mateo and Santa Clara Counties, CA. (Project Manager for eight buildings with curtain wall remediation, such as sealant replacement, coatings, spall repair, and wet glazing.)
- East Bay Municipal Utility District Headquarters, Oakland, CA. (Project Manager for investigation, recommendation, and repair documentation for waterproofing of a ten-story mid rise. Repair strategy utilizes three-dimensional, molded-silicone weather seals.)
- Kaiser Center, Oakland, CA. (Project Architect for repair documents and contract administration for cleaning and sealing exposed aggregate precast-concrete panels on a twenty-nine-story high rise.)
- 601 Montgomery, San Francisco, CA. (Project Architect for investigation and recommendations for mitigating water leakage through precast-concrete panels and aluminum-framed windows on a twenty-story high rise.)
- 333 Market Street, San Francisco, CA. (Project Manager for investigation, recommendations, specifications, repair documents, and contract administration to stop water leakage through thirty-four stories of glazed curtain wall. Repair strategy utilized three-dimensional, molded-silicone weather seals. With RMAIA.)
- 50 CA Street, San Francisco, CA. (Project Manager for investigation, recommendations, specifications, repair documents, and contract administration to stop water leakage through thirty-seven stories of glazed curtain wall. Repair

strategy utilized custom-extruded, silicone tapes. With RMAIA.)

Building Code/Fire Safety Consultation

- Casino and Hotel (Confidential), Northern CA. (Lead Expert/Consultant on investigation, analysis, and recommendations for allowable area, building separation, fireproofing, and passive fire protection defects.)
- Casino and Hotel (Confidential), Las Vegas, NV. (Lead Expert/Consultant on investigation, analysis, and recommendations for fireproofing and passive fire protection defects.)

Professional Activities

- National Institute of Building Sciences, Building Enclosure Council, San Francisco: Chair (fall 2010 to present).
- American Institute of Architects: Mock Oral Exam Committee.
- University of California, Berkeley: Professional Mentor.
- American Society of Testing and Materials: Task Group Chair, Molded Silicone Weather Seals.

Presentations and Publications

- Decareau, C.P., Presentation, "Four Barriers for Sustainable Building Envelopes," AECOM, Los Angeles, CA, 18 January 2011.
- Coats, P.W., and C. Decareau, Paper and Presentation, "Thermal Boundary Conditions for Museum Skylights," *International Conference on Building Envelope Systems and Technologies*, Vancouver, BC, 28 June 2010.
- Kan, L., and C. Decareau, Paper, "Case Studies in Estimating Air-Drying Times of Small-Diameter Softwood Lumber Comparing Multiple Regression Methods and Hygrothermal Analysis," *International Conference on Building Envelope Systems and Technologies*, Vancouver, BC, 28 June 2010.
- Decareau, C.P., Article, "Durable, Sustainable Exteriors," *Archi-Tech Magazine*, March 2008.
- Decareau, C.P., Presentation, "Flooring Failures: Causes and Prevention," Construction Specifications Institute, East Bay Chapter, Berkeley, 20 March 2007.
- Decareau, C.P., Presentation, "Four Barriers for Sustainable Building Envelopes," Anshen + Allen Architects, San Francisco, 6 March 2007.
- Decareau, C.P., Presentation, "Preventing Mold Growth in Your Architecture," Carter & Burgess Inc., Oakland, CA, 15 November 2006.
- Decareau, C.P., L. Kan and J. Pinon, Paper and Presentation, "Inputs and Analyses: An End User's Perspective of Heat-Air-Moisture Data," *ASTM International*, Toronto, 24 April 2006.
- Decareau, C.P., Presentation, "Building Science: Case Studies for Western Climates," SGH Symposium on Building Science and Technology, San Francisco, 10 March 2006.
- Decareau, C.P. and R. Luft, Presentation, "Flooring Failures: Causes and Prevention," Construction Specifications Institute, Redwood Empire Chapter, Santa Rosa, 2 March 2006.
- Decareau, C.P., Presentation, "Sealing The Building: Design Guidelines For Controlling Moisture Migration And Practical Applications with Case Studies," Hellmuth Obata + Kassabaum (HOK), Los Angeles, CA, 22 October 2005.
- Decareau, C.P., Presentation, "Moisture Control and The Building Envelope for Architects," Anderson Brule Architects, San Jose, CA, 13 September 2005.
- Decareau, C.P., Presentation, "Moisture Migration in The Building Envelope," Kaplan McLaughlin Diaz (KMD), San Francisco, CA, 14 June 2005.
- Decareau, C.P. and E. Lyon, Presentation, "Get the Mold Out! Preventing Mold Growth in Your Architecture," *AIA National Convention*, Las Vegas, NV,

19 May 2005.

- Decareau, C.P., Presentation, "Moisture Control and The Building Envelope for Contractors," McCarthy Construction, Berkeley, CA, 13 May 2005.
- Decareau, C.P., Presentation, "Building Science: Case Studies for Western Climates," SGH Symposium on Building Science and Technology, Los Angeles, CA, 8 April 2005.
- Decareau, C.P., Presentations, "Preventing Mold In Architecture" and "Flashing Fundamentals for Architects," AIA East Bay "Procrastinators Series," Oakland, CA, 21 December 2004.
- Decareau, C.P., Presentation, "Flashing Fundamentals for Architects," SGH/AIA CES Seminar, KMD Architects, San Francisco, CA, 26 February 2004.
- Decareau, C.P., Paper and Presentation, "Using Forced Ventilation To Mitigate Mold Growth In Existing Multi-Family Housing," AIVC/BETEC, 13 October 2003.
- Decareau, C.P., and R. Luft, Presentation, "Water Vapor Control in Buildings," BuildEx/San Francisco, CA, 19 November 2002.
- Decareau, C.P., Luft, R., Presentation, "Water Vapor Control in Buildings," Construction Specifications Institute/San Francisco, CA, 14 August 2002.
- Decareau, C.P., Presentation, "Rehabilitation of Windows" Late Nineteenth/Early Twentieth-Century Masonry Buildings, SGH/AIA CES Seminar, 5 June 2001.
- Decareau, C.P., Presentation, "Investigation and Diagnosis of Transitional Masonry Facades," Late Nineteenth/Early Twentieth-Century Masonry Buildings, SGH/AIA CES Seminar, 4 June 2001.
- Decareau, C.P., Presentation, "Renovation and Major Maintenance of High-Rise Condominium Exteriors," Executive Council of Home Owners, 27 October 1999.

SIMPSON GUMPERTZ & HEGER

Engineering of Structures
and Building Enclosures

Andrea B. Bono, P.E., LEED AP BD+C

Staff II – Building Technology
415-343-3097
ABBono@sgh.com

Registrations

Civil Engineer
California

Other
Fundamentals of Engineering (Engineering-In-Training),
LEED AP BD+C

Education
UC Berkeley Extension Professional Program in Sustainable Design, 2009-2011
California Polytechnic State University, San Luis Obispo, CA
B.S. in Civil Engineering, 2006

Professional Activities
Safety Assessment Program (ATC-20 and ATC-45), California Emergency Management Agency Disaster Services Worker – Volunteer
Spark Bay Area Youth Apprenticeship Program – Apprentice Teacher

Andrea Bono has more than four years of experience in the design, investigation, and rehabilitation of commercial, healthcare, civic, and residential buildings related to below-grade spaces, podium decks, exterior components and cladding, and roofs. Ms. Bono has collaborated with architects, contractors, building owners, homeowners, and sustainable design consultants to design, analyze, and repair aspects of the building envelope.

Experience

- Simpson Gumpertz & Heger Inc. (SGH), San Francisco, CA, from 2007 to present.
- Simpson Gumpertz & Heger Inc., San Francisco, CA, Intern – Building Technology, summer 2006.
- Rudolph and Sletten (R&S), Redwood City, CA, Project Engineer Intern, summers 2004 and 2005.
- O.C. Jones & Sons, Inc. (OCJ), Berkeley, CA, Engineering Intern, summers 2002 and 2003.

Representative Projects
Unless otherwise specified, all projects listed below are with SGH.

Building-Envelope Investigation

- Service and Medical Office Building, Kaiser Permanente, Petaluma, CA. (Investigation of thin brick cracking and water intrusion.)
- Bank of the West Building, Walnut Creek, CA. (Building envelope and structural investigation at third-floor deck.)
- Private Residence, San Francisco, CA. (Basement Leak Investigation and Remediation.)
- Private Residence, Windsor, CA. Slab-on-grade analysis.)
- Kensington Place, Sunnyvale, CA. (Consultation regarding alleged construction issues.)
- Bay Street, Emeryville, CA. (Consultation regarding podium leaks.)

Repair and Rehabilitation Design

- Oakland Noodle Factory, Oakland, CA. (Waterproofing consultation.)
- Lincoln Court, CA. (Waterproofing and structural assessment.)
- Ballena Bay Condominiums, Alameda, CA. (Construction administration and waterproofing consultation.)
- Private Residence, San Francisco, CA. (Design repairs and construction administration.)
- Richmond Civic Center, Richmond, CA. (Building-envelope consultation.)
- Sutro Tower DTV Conversion, San Francisco, CA. (Engineering services.)

Building-Envelope Design

- San Francisco Public Utilities Commission Building, 525 Golden Gate, San Francisco, CA. (Below-grade waterproofing consultation.)
- Rosewood Sand Hill Office Complex, Menlo Park, CA. (Waterproofing peer review.)
- Presidio Archaeology Center, Presidio of San Francisco, San Francisco, CA. (Envelope waterproofing and vapor retarder consultation.)
- Palladio Retail Center, Folsom, CA. (Building enclosure design consultation

services.)

- Willis Residence, Palo Alto, CA. (Waterproofing peer review.)
- Clyfford Still Museum, Denver, CO. (Building enclosure consultation.)
- Pixar Production Building – Phase II, Emeryville, CA. (Waterproofing, Roofing, and Building-Envelope Consultation.)

Seismic Evaluations and Rehabilitations

- 650 California Street, San Francisco, CA. (Structural and seismic engineering review.)

Structural Investigations

- Tolleson, AZ. (Investigation of water damaged roof-framing system.)
- Milbrae, CA. (Ruptured tendon in a post-tensioned slab-on-grade.)

Construction Management

- Kaiser Santa Clara, Santa Clara, CA. (Phases I and II. With R&S.)
- Napa/Solano Counties, CA. (Highway 80 Rehabilitation Project. With OCJ.)
- Santa Rosa, CA. (Highway 101 Freeway Widening Project. With OCJ.)

SIMPSON GUMPERTZ & HEGER

Engineering of Structures
and Building Enclosures

Liyen Kan, P.E.

Senior Staff II – Building Technology
415-343-3072
lkan@sgh.com

Registrations
Professional Engineer
British Columbia, Canada

Professional Activities
ASHRAE Member
Canadian Association for Civil Engineering
Member
Ontario Building Envelope Council
Member

Education
University of Toronto, Department of Civil Engineering, Toronto, Canada
M.S. in Applied Science, 1999
University of Illinois at Urbana-Champaign, IL
Master of Architecture, 1996
National Cheng Kung University
B.S. in Physics, 1991

Liyen Kan has over ten years of experience in building-envelope design, consultation, and investigation. He is specialized in moisture-migration issues and computer modeling. His expertise has been demonstrated by papers and publications on ASTM and ASHRAE. His projects have included moisture analysis and waterproofing services for museums, commercial, educational, and residential buildings. He has consulted with architects, contractors, and building owners to analyze design concepts, evaluate design defects, and develop repairs for water intrusion issues. Mr. Kan has lead more than fifty building-envelope design/investigation/retrofit projects involving more than 500 buildings in the United States and Canada.

Experience

- Simpson Gumpertz & Heger Inc. (SGH), San Francisco, CA, from 2004 to present.
- E.R.A Architects (ERAA), Toronto, Canada, Building Envelope Project Consultant (Architecture and Building Rehabilitation) from 1999 to 2004.

Representative Assignments
Unless otherwise specified, all projects listed below are with SGH.

Curtain Wall Investigation and Repair

- 44 Montgomery St., San Francisco, CA. (Curtain wall investigation and repair.)
- State Fund Headquarters, San Francisco, CA. (Curtain wall investigation and repair.)
- State Fund Campus, Pleasanton, CA. (Curtain wall investigation and repair.)

Building-Envelope Investigation and Repair

- Avalon Cedar Ridge, Daly City, CA. (Building-envelope investigation and repair.)
- CityTV Toronto, Ontario, Canada. (Building-envelope assessment and repair.)
- Massey Estate, Toronto, Ontario, Canada. (Building-envelope assessment and repair.)

Building-Envelope Design and Construction Administration

- Contemporary Jewish Museum, San Francisco, CA. (Building-envelope design consultation.)
- Avalon Mission Bay III, San Francisco, CA. (Building-envelope design consultation and waterproofing.)
- Avalon Mission Bay II, San Francisco, CA. (Building-envelope design consultation and waterproofing.)
- Genentech Building 5 and 9, South San Francisco, CA. (Roofing consultation.)
- Hall Winery, St. Helena, CA. (Building-envelope design consultation and design.)

Building Science

- W Hotel and Residence, Hollywood, CA. (Hygrothermal analysis.)
- Hollywood & Wine Condominium, Hollywood, CA. (Hygrothermal analysis.)
- Avenue of the Stars Condominium, Century City, CA. (Hygrothermal analysis.)
- Thomason Hospital, El Paso, TX. (Hygrothermal analysis.)
- Pulte Homes, Emeryville, CA. (Moisture and thermal study.)

- 170 King St., San Francisco, CA. (Waterproofing design consultation services for building-envelope waterproofing.)
- Union Mine High School, Placerville, CA. (Hygrothermal analysis.)

Publications

- Kan, L., and C. Decareau, "Case Studies in Estimating Air-Drying Times of Small-Diameter Softwood Lumber Comparing Multiple Regression Methods and Hygrothermal Analysis," International Building Conference on Building-Envelope Systems and Technologies (ICBEST) 2010.
- Kan, L., and J. Pinon, "Predicting the Effect of Wall Cladding on Ventilation on Condensation Due to Sun-Driven Moisture – Comparison of Hygrothermal Simulation with Laboratory Testing," ASHRAE Building X 2007.
- Kan, L., C.P. Decareau, and J. Pinon, "Input and Analysis: An End User's Perspective of Heat-Air-Moisture Data," ASTM Symposium 2006.
- Kan, L., and J. Pinon, "Predicting and Modeling the Effects of Wall Cladding Ventilation on Sun-Driven Condensation," International Building Physics Conference 2005.
- Pressnail, K., J. Timusk, L. Kan, and B. Dong, "In Search of a Wall for All Season," Ninth Canadian Conference on Building Science and Technology 2003.

TEAM REFERENCES

Christopher P. Decareau, AIA, LEED AP

Melanie McArtor
Gensler Architecture Design & Planning
213.327.3600
Melanie_mcartor@gensler.com

Brian Wright
TLCD Architecture
707.525.5600
brian.wright@tlcd.com

Duane Carlson
Avalon Bay
Director of Construction
408.551.5537
duane_carlson@avalonbay.com

Andrea B. Bono, P.E., LEED AP

Eric Gregg
KMD Architects
Architect
415.398.5191
gregg@kmd-arch.com

Luis Ramos-Jurado
Clark Construction
510.430.1700
luis.ramos-jurado@clarkconstruction.com

Liyen Kan, P.E.

Matthew Keil
AvalonBay Communities
Portfolio Maintenance Director
Matthew_Keil@AVALONBAY.COM
408.551.5502

Matthew Bokar
Pyatok Architects
510.465.7010 ext 135
mbokar@pyatok.com

INSURANCE SUMMARY

SGH Liability Insurance Summary

TYPE	CARRIER	LIMITS	BEST RATING	EXPIRES
Architects & Engineers Professional Liability Policy (includes Pollution)	Lexington Insurance Company	$10,000,000 each claim $10,000,000 annual aggregate Deductible: $300,000	A/XV	07/02/12
Commercial General Liability	Travelers Insurance: Charter Oak Fire Insurance, Inc.	$2,000,000 general aggregate $2,000,000 Products - Comp/OP Aggregate $1,000,000 Personal & Adv Injury $1,000,000 each occurrence $10,000 Medical Exp.(any one person) $1,000,000 Damages to Rented Property	A+/XV	01/01/13
Automobile Liability (hired autos, non-owned autos)	Travelers Insurance: Travelers Indemnity Co.	$1,000,000 combined single limit	A+/XV	01/01/13
Umbrella	Travelers Insurance: Travelers Prop Casualty Co of America	$5,000,000 each occurrence $5,000,000 aggregate	A+/XV	01/01/13
Excess	Fireman's Fund Insurance Co	$11,000,000 each occurrence $11,000,000 aggregate	A+/XV	01/01/13
Worker's Compensation and Employer's Liability	Travelers Insurance: Travelers Casualty & Surety Co.	$1,000,000 each accident $1,000,000 disease-policy limit $1,000,000 disease-each employee	A+/XV	01/01/13

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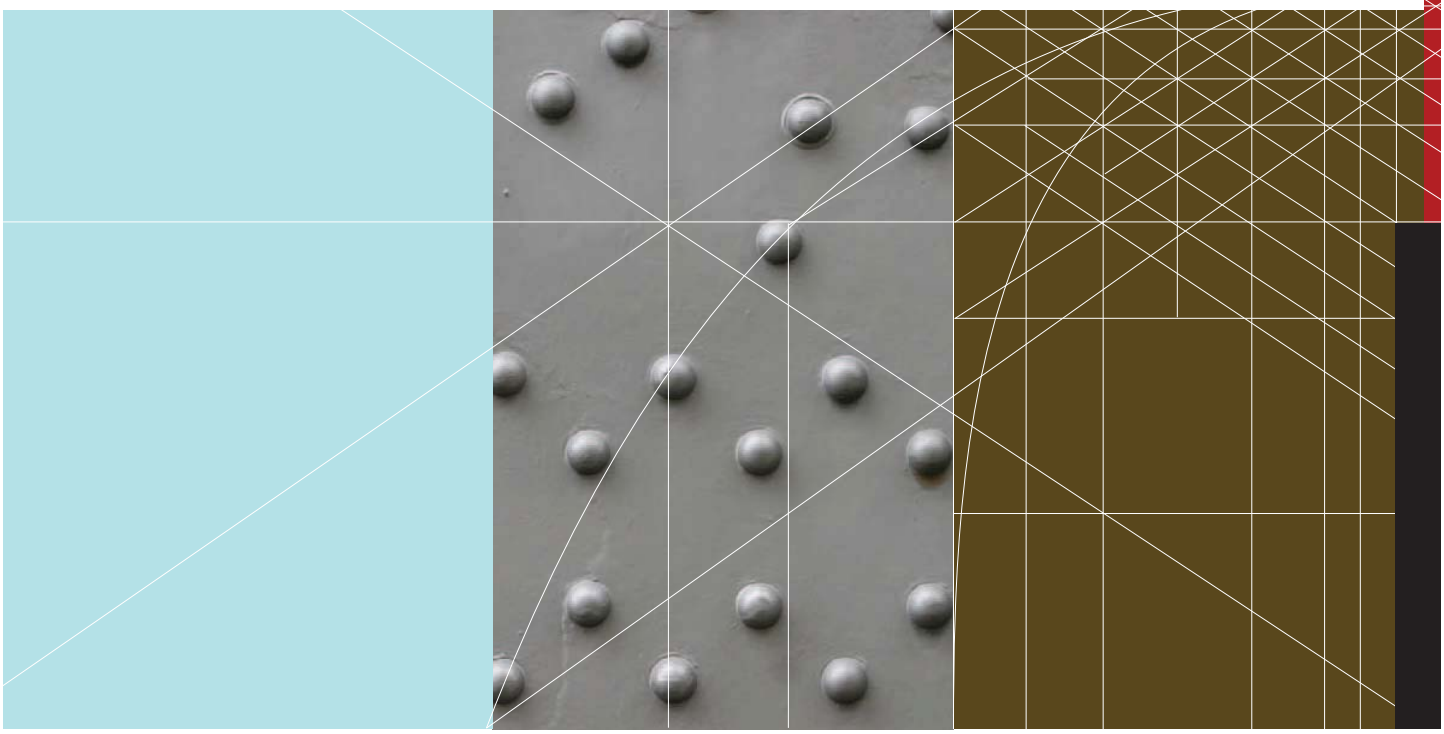

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