ADDENDUM NO. 1

January 24, 2022

REQUEST FOR QUALIFICATIONS

FOR

Fine Arts Decking
PROJECT NO. 957449
The following changes, additions, or deletions shall be made to the following documents as indicated for this Project; and all other terms and conditions shall remain the same.

1. **REQUEST FOR QUALIFICATIONS**
   
   Remove Request for Qualifications and Replace it with the one issued in this Addendum.

2. **ATTACHMENTS**
   
   Add Attachment D: Fine Arts Decking Survey & Study Phase Services Final Report.

3. **REQUESTS FOR INFORMATION**

<table>
<thead>
<tr>
<th>BID RFI No.</th>
<th>QUESTIONS / ANSWERS</th>
</tr>
</thead>
</table>
| 1-1 | **Question:** Would the University consider allowing email submissions of responses to the RFQ?  
**Answer:** No, we would not be able to guarantee that the submissions would come over to our server. |
| 1-2 | **Question:** On p.4 of the RFQ, there is a reference to a report: This report is a compilation of limited assessment and conceptual repair recommendations specifically addressing the Fine Arts Decking project (highlighted above). Would it be possible to receive a copy of this report?  
**Answer:** The report has been added to the RFQ documents. Please see Attachment D. |
| 1-3 | **Question:** Is there a proposed construction budget for the work to be completed?  
**Answer:** $1M - $1.5M. |
| 1-4 | **Question:** We are planning to assemble a consultant team that includes a waterproofing consultant, structural engineer, civil engineer, plumbing engineer, and cost estimator. Are there other disciplines or consultants that the University would like us to include as part of the qualifications package?  
**Answer:** Not at this time. |
| 1-5 | **Question:** Under the “Experience Submittal” portion of the RFQ, under 3.1.1 1) d), the University requests that we name a “Designated Healthcare/Medical Planner.” As there is no healthcare component to this project, is there another role the University would like us to designate in its place?  
**Answer:** This is an error; Healthcare/Medical Planner is not required for this project. |

**END OF ADDENDUM**
University of California, Riverside

Request for Qualifications
For
Fine Arts Building Decking


Project Number: 957449

January 6, 2022

January 24, 2022

Addendum 1

Advertisement Date: Thursday, January 6, 2022 – Thursday, January 20, 2022
Document Issue Date: Thursday, January 6, 2022
Notice of Intent Due by: Tuesday, January 18, 2022
Last day for Questions: Friday, January 21, 2022
RFQ Submittal Due by: Thursday, January 27, 2022

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   B. PROJECT EXPERIENCE
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   D. SCHEDULE
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ATTACHMENTS (Appropriate attachments may be recopied as necessary for submittal)

<table>
<thead>
<tr>
<th>Attachment</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>RFQ QUESTIONNAIRE &amp; SUBMITTAL FORM</td>
</tr>
<tr>
<td>B</td>
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</tr>
<tr>
<td>C</td>
<td>EXECUTIVE DESIGN PROFESSIONAL AGREEMENT SAMPLE</td>
</tr>
<tr>
<td>D</td>
<td>FINE ARTS DECKING SURVEY &amp; STUDY PHASE SERVICES FINAL REPORT</td>
</tr>
</tbody>
</table>
I. ADVERTISEMENT FOR EXECUTIVE ENGINEERING SERVICES FOR DESIGN DEVELOPMENT, CONSTRUCTION DOCUMENTS, COST ESTIMATING, BIDDING, AND CONSTRUCTION PHASES SERVICES

The University of California, Riverside (UCR) is initiating an agreement for Design Professional Services to complete design for the repair and replacement of the surface decking at the ground level & second level bridge at the Fine Arts Building. UCR will enter into a full service contract for Executive Design Professional Services for Design Development, Construction Documents, Cost Estimation, Bidding, and Construction Phases for the Fine Arts Decking Project, and therefore invites qualified Architectural Consultants with relevant experience to submit written statements of qualifications.

- Services will be provided under the University’s Executive Design Professional Agreement (EDPA)
- A Design-Bid-Build (DBB) project delivery method will be utilized

The selected firm is to work with the University on modifications to the scope, schedule, or deliverables which may result in amendments to the EDPA for completing the work associated with this RFQ.

The complete RFQ packet will be available (in electronic format only) beginning Thursday, January 6, 2022. To receive a copy of the RFQ Documents, email the RFQ Administrator listed below:

RFQ Administrator:
Kara Longtin
UCR Contracts Administration
Email: kara.longtin@ucr.edu

Entities wishing to submit Qualification Documents for this project, should confirm their intent to do so, by emailing a written statement (Notice of Intent statement) to the RFQ Administrator by Tuesday, January 18, 2022

Every effort will be made to ensure that all persons, regardless of race, religion, sex, color, ethnicity and national origin have equal access to contracts and other business opportunities with the University. Each candidate firm will be required to show evidence of its equal employment opportunity policy.

The University reserves the right to reject any or all responses to this RFQ and to waive non-material irregularities in any response received.

All information submitted for evaluation will be considered official information acquired in confidence, and the University will maintain its confidentiality to the extent permitted by law.
II. PROJECT INFORMATION AND REQUIREMENTS

A. BACKGROUND & DESCRIPTION
The Fine Arts Building at UCR was constructed in 2002. The 98,000 square foot building consists of several interconnected buildings, varying from the one-story Performance Lab, to the majority of the building mass four stories above grade.

The Fine Arts Deck (Central Plaza) at the ground level occurs partially over basement space and partially on grade. An amphitheater stair on the east edge of the site rises to an enlarged second level landing connected to the north wall of the Performance Lab building. A bridge structure connects this second level landing to the east side of the four-story main building.

The University has identified several areas of the Central Plaza decking with existing deficiencies to be assessed and ultimately repaired. These deficiencies are categorized in related projects:

UCR Fine Arts Decking Survey & Study Phase, Project No. 957449

This report is a compilation of limited assessment and conceptual repair recommendations specifically addressing the Fine Arts Decking project (highlighted above). See Attachment D

At the Fine Arts deck, the existing slope in certain areas has been determined to be insufficient for acceptable storm run-off performance. In some cases, low points were observed at building entry areas, resulting in repeated water damage to the interior. The existing area drains are also determined to be undersized.

At the Fine Arts deck, the existing traffic coating has failed in several locations and may have caused leaks in the building that may have contributed to corrosion and stains observed in the basement ceiling assembly below the deck.

At the Level Bridge, there are several deteriorated conditions at joints between constructed assemblies, including but not limited to efflorescence and staining of plaster under the bridge, and corroded structural steel members, and cracked and debonded traffic coating and sealants.

B. EXPERIENCE REQUIREMENTS
The selected Design Team shall:
1. Possess experience with Type III construction involving exterior decking & waterproofing over occupied spaces for an institution.
2. Have experience working with educational/institutional project team to assess existing system and issues.

C. SCOPE OF SERVICES
1. Full Architectural Services in accordance with the terms of the EDPA as required for Design Development Phase, Construction Documents Phase, Cost Estimation, Bidding Phase, and Construction Phase through and including the 11th month Warranty walk.
2. The successful Design Team will work with the University in designing a repair and/or replacement of the deck surfacing at the plaza level and second level bridge at the Fine Arts Building that will integrate with the existing structural components while maintaining a fully functional system that will meet the present and future needs of the University.

3. Prepare a cost estimate of probable construction.

4. Provide design services to obtain all necessary reviews and approvals through UC Riverside Building & Safety permit program.

D. SCHEDULE

Design development is to begin shortly after the selection of the firm and is projected to commence with construction documents being “Bid Ready” in 12 weeks including all reviews and approvals having been completed.

E. CONTRACT REQUIREMENTS

1. All consulting services to be provided by the consultant shall be in accordance with the issued University Contract Documents. University Standard Form of Executive Design Professional Agreement (EDPA).
   a. Note any exceptions to the attached Executive Design Professional Agreement ("EDPA") that would prevent your firm from executing the Agreement in your response. We cannot accept any request to include language to limit liability with regards to insurance and/or modify the indemnification clauses.

2. University requires evidence of insurance coverage: general liability, automobile liability, and worker’s compensation. If consultant does not currently have coverage in accordance with University requirements, listed below, documentation shall be submitted indicating that such coverage will be in place prior to execution of the Consultant Agreement.

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<thead>
<tr>
<th>Commercial Form General Liability Insurance* – Limits of Liability</th>
<th>Minimum Requirement</th>
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<tr>
<td>Each Occurrence - Combined Single Limit for Bodily Injury and Property Damage</td>
<td>$1,000,000</td>
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<td>Products - Completed Operations Aggregate</td>
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<tbody>
<tr>
<td>Each Accident - Combined Single Limit for Bodily Injury and Property Damage</td>
<td>$1,000,000</td>
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Workers’ Compensation and Employer’s Liability**

Minimum Requirement
Workers’ Compensation: (as required by Federal and State of California law)

Employer’s Liability:
- Each Employee: $1,000,000
- Each Accident: $1,000,000
- Each Policy: $1,000,000

Professional Liability Insurance* – Limits of Liability

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</tr>
</tbody>
</table>

*This insurance must be (i) issued by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's) or (ii) guaranteed, under terms consented to by the University (such consent to not be unreasonably withheld), by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's). Further, the deductible, or retained limit, for each coverage shall not be more than $100,000.

**This insurance must be issued by companies (i) that have a Best rating of B+ or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's); or (ii) that are acceptable to the University.


F. SCHEDULE FOR SCREENING AND SELECTION OF CONSULTANTS, INTERVIEWS

In accordance with established University procedures, UC Riverside will review all submittals in response to the RFQ and will select the most qualified firm for the listed project.

The complete RFQ packet will be available (in electronic format only) on Thursday, January 6, 2022. To receive a copy of the RFQ Documents, email the RFQ Administrator listed below.

RFQ Administrator:
Kara Longtin
UCR Contracts Administration
Email: kara.longtin@ucr.edu

RFQ Qualification Submittals must be received on or before Thursday, January 27, 2022 at 2:00 PM. Submittals must be submitted in electronic format on a CD or flash drive, in PDF format at the address below. No paper copies requested. Email, fax and any other form of submission will not be accepted other than what is stated in this Section. Please address submittals to:
Attn: Contracts Administration, Kara Longtin  
Planning, Design, & Construction  
UNIVERSITY OF CALIFORNIA, RIVERSIDE  
1223 University Avenue, Suite 240  
Riverside, CA 92507

LATE SUBMISSIONS, FOR ANY REASON, WILL NOT BE ACCEPTED.

All material submitted becomes the property of UCR and will not be returned to submitting firm.

1. Questions may be addressed by email to Kara Longtin at kara.longtin@ucr.edu. The last day questions will be received will be **Friday, January 21, 2022 at 2:00 PM.**
2. It is requested, but not mandatory, that firms interested in responding to this RFQ, contact the RFQ Administrator by email and inform of their intent to do so. Please reference the RFQ name in the subject line of the email in the Notice of Intent.

The selection process will proceed as follows:

1. Entities should submit a written Notice of Intent as required in the Request for Qualifications Advertisement. The Notice of Intent shall be in the form of an email to the RFQ Administrator announcing an entity’s intent to submit Qualification Documents for this project.

2. Entities who are eligible to submit Qualification Documents for this project, must submit all required documents by the given deadlines, as required in the Request for Qualifications Advertisement.

3. The University Screening Committee will evaluate each RFQ Submittal and will rank the top three (3) prospective firms on their demonstrated competence and professional qualifications necessary for the satisfactory performance of the services required.

4. The Screening Committee shall develop a list ranking the top three firms, and shall submit the list to the Associate Vice Chancellor / Campus Architect for review and approval.

5. The Associate Vice Chancellor / Campus Architect shall review and approve the list.

6. Submitting firms will be notified of the decision by the Selection Committee within 3 days of the Selection Committee’s decision.

7. If the University receives submissions from fewer than three qualified firms, the University may select from among the available qualified firms.

G. **NEGOTIATION AND AWARD OF CONTRACT**
1. The University will negotiate a contract with the best ranked qualified firm for services at compensation.

2. Negotiations shall begin no later than 14 days after the successful firm has been notified of its selection.

3. The University and firm shall work together to ensure the successful delivery of the requested services in a timely fashion.

4. In the event an impasse is reached in negotiations, the University may terminate negotiations and enter into negotiations with the next qualified firm, in the same manner as prescribed below.

   a. Should the University be unable to negotiate a satisfactory contract with the firm considered to be the most qualified, negotiations with that firm shall be formally terminated in writing by the University.

   b. The University shall then undertake negotiations with the second most qualified firm. Failing accord with the second most qualified firm, the University shall terminate negotiations in writing. The University shall then undertake negotiations with the third most qualified firm.

   c. Should the University be unable to negotiate a satisfactory contract with any of the selected firms, the University shall select additional firms in order of their competence and qualification and continue negotiations in accordance with these instructions until an agreement is reached.

   d. Upon the completion of negotiations, the University and the firm shall proceed to execute a contract. The University shall provide the firm the contract within 45 days after the conclusion of negotiations, unless the University notifies the firm that additional time is necessary to complete the contract.

   e. If the selected firm fails to execute the contract within 14 days of receipt, the University may formally terminate the negotiations with that firm in writing and undertake negotiations with the second most qualified firm and so on as previously described above.
ATTACHMENT A: RFQ QUESTIONNAIRE & SUBMITTAL FORM

PLEASE FIND THE QUESTIONNAIRE AND FORMS ON THE SUBSEQUENT PAGES. WHERE NECESSARY, COPY THE FORMS IN THIS PACKAGE. USE ONLY THESE FORMS.

SUBMIT ONE ELECTRONIC FILE ON TRANSFERABLE MEDIA NO LATER THAN THE RFQ DEADLINE.
ATTACHMENT A: RFQ QUESTIONNAIRE & SUBMITTAL FORM

QUALIFICATION SUBMITTAL

For:

DESIGN PROFESSIONAL QUALIFICATION

FOR THE

Fine Arts Decking

PROJECT NO. 957449

UNIVERSITY OF CALIFORNIA, RIVERSIDE

January 6, 2022

SUBMITTED BY:

(Company Name. If a Joint Venture, state name of JV Entity)

Type of Organization:  □ Sole Proprietor/Individual  □ Partnership  
□ Joint Venture  □ Corporation  (State of Incorporation)

(Contact Name & Title)

(Street Address)

(City, State, Zip Code)

(Telephone Number)    (Facsimile Number)

(E-mail)

Each prospective firm must answer all of the following questions and provide all requested information.

All information submitted for prequalification evaluation in response to Section 2, if applicable, and marked as “confidential” will be considered official information acquired in confidence, and the University of California will maintain its confidentiality unless (1) the University determines that it is required to release the information to a third party pursuant to the requirements of the California Public Records Act or (2) the University is required by court order to release the information to a third party pursuant to the requirements of the California Public Records Act. In the event that the University receives a request pursuant to the California Public Records Act and the University determines that it is required to disclose information marked “confidential” by the provisions of the California Public Records Act, the University will notify the prospective firm of the pending disclosure at least 72 hours prior to such disclosure so that the prospective firm may seek a restraining order in advance of such disclosure. The University shall err on the side of transparency and will generally treat information provided by the prospective firm that is not marked “confidential” as subject to disclosure pursuant to the California Public Records Act. Likewise, any decision by the University that any document is subject to disclosure pursuant to the California Public Records Act shall not prevent the University from making a subsequent determination that any document is not subject to disclosure pursuant to the California Public Records Act.

All other information submitted for evaluation will be considered official information acquired in confidence, and the University will maintain its confidentiality to the extent permitted by law.

WHERE NECESSARY, COPY THE FORMS IN THIS PACKAGE. USE ONLY THESE FORMS. Oral, telephonic, electronic mail (e-mail), facsimile, or telegraphic Prequalification Questionnaires are invalid and will not be accepted.

SUBMIT ONE ELECTRONIC FILE ON TRANSFERABLE MEDIA NO LATER THAN THE RFQ DEADLINE.
SURVEY (Information Only)

1. How did you hear about this RFQ?

- [ ] Press Enterprise  - [ ] UCR Website  - [ ] Other: __________________________

2. INSURER (Pass/Fail Section) Failure to provide the required information or check boxes marked as “Pass” will result in the rejection of submitting entity from this Qualification.

Prospective firm shall obtain and submit the Insurance Declaration in the form shown below, or submit a sample certificate of insurance form from its insurer, or submit a letter that declares the same as the Insurance Declaration, signed by an authorized representative of its insurer on the representative’s or insurer’s letterhead. (If more than one insurer or insurance representative, submit a completed form or sample certificate of insurance form or letter for each).

2.1 Is the firm able to obtain insurance in the following limits for the required coverages?

- [ ] YES (PASS)  - [ ] NO (FAIL)

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*This insurance must be (i) issued by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's) or (ii) guaranteed, under terms consented to by the University (such consent to not be unreasonably withheld), by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's). Further, the deductible, or retained limit, for each coverage shall not be more than $100,000.

**This insurance must be issued by companies (i) that have a Best rating of B+ or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's); or (ii) that are acceptable to the University.
2.2 Insurance Declaration:

PROVIDE THIS DECLARATION TO YOUR INSURANCE CARRIER FOR COMPLETION AND HAVE YOUR CARRIER RETURN THE COMPLETED DECLARATION TO YOU. THE PROSPECTIVE FIRM MUST SUBMIT THIS DECLARATION TO UNIVERSITY. DO NOT HAVE YOUR CARRIER SUBMIT THIS DECLARATION DIRECTLY TO THE UNIVERSITY

The undersigned declares under penalty of perjury that the below named insurer is currently willing to provide the insurance listed above in Section 3.A. of this RFQ/RFP Qualification submittal and that this Declaration was executed in

(Name of Prospective Firm)

(Name of City if within a City, otherwise Name of County) , in the State of ,

(State)

(Date)

(Signature)

(Name & Title)

(Insurer Name)

(Street Address)

(City, State & Zip Code)

(Telephone Number) (Facsimile Number)

(Mobile Number) (Email)
3. EXPERIENCE SUBMITTAL (100 points possible. 75 points needed to pass.)

3.1 Prospective firm shall submit the following information in the specified order:

3.1.1 Section 1, Cover Letter (10 points possible).
The Cover Letter should introduce the team and provide a brief history of the firm, including:

1) Number of years in business as the current entity or its legally-recognized predecessor.
2) Number of employees (aggregate of all office locations).
3) The individuals proposed to fill the following roles, at a minimum:
   a) Designated principal-in-charge, authorized to make contractual commitments on behalf of the firm;
   b) Designated project lead, responsible for delivery of services to the University in connection with the project;
   c) Designated technical lead for the project.
   d) Designated Healthcare/Medical Planner
4) The firm’s office location that will be the firm’s primary base for delivery of services to the University in connection with the project.

3.1.2 Section 2, Project Team and Qualifications (30 points possible).
1) Team Organization Chart.
2) Explain the role of each individual and each proposed consultant, and explain how the individual’s past experience is directly relevant to his/her proposed role and the specific services as described in the RFQ Advertisement.
3) Describe the Team’s, or Team members’, experience in working on comparable projects. the project
4) Provide a matrix that identifies the team members experience in working together on projects.
5) Resumes for each proposed team member, indicating individual’s experience relevant to the requirements of the project and relevant contact information such as their email address.

3.1.3 Section 3, Related Project Experience (30 points possible).
1) Describe a minimum of three (3) projects comparable to this work in which the firm has had a leading role (as either Architect of Record or Engineer of Record);
   a) For each of the projects cited under item 1) above, provide no more than four (4) pages containing the following information: brief project description, including owner, location and dates of engagement;
   b) No more than two (2) photographs or diagrams e.g. plans, conveying features relevant to the requirements of this project, as described herein;
   c) The firm’s scope of work;
2) Work scope, including services and deliverables.
3) Work product examples demonstrating design responses and graphic abilities,
4) Key personnel assigned to the project;
5) Construction Contract sum.
6) Start and completion construction dates.

3.1.4 Section 4: Project Understanding (30 points possible).
1) Understanding of Design Professional’s role, scope of services and deliverables, based on information provided herein.
2) Describe how Team would work with the University to achieve the project goals. Describe proposed approach and work plan, consistent with schedule and other information provided herein.

3.2 NOTE THAT PROJECT REFERENCES WILL BE CONTACTED FOR VERIFICATION OF THE INFORMATION REPORTED. IN CASE OF CONFLICT BETWEEN THE
INFORMATION REPORTED BY THE PROSPECTIVE FIRM AND THE INFORMATION PROVIDED BY THE REFERENCE, THE INFORMATION PROVIDED BY REFERENCE SHALL TAKE PRECEDENCE AND AMBIGUITIES SHALL BE RESOLVED AGAINST THE PROSPECTIVE FIRM.

3.3 An entity wishing to use a predecessor business to satisfy experience requirements must demonstrate with written information submitted with this RFQ/RFP Qualification Submittal that it is substantially the same organization (in terms of who is managing the firm) as the predecessor business.

3.4 By signing the Declaration of this Qualification Submittal, you agree that each individual Team member named your Team Organization Chart is subject to the University's approval, and may be replaced at University's request at any time. Any individual approved by the University cannot be replaced later without University’s prior written consent.
5. DECLARATION

I, ____________________________ , hereby declare that I am the ____________________________ of ____________________________ submitting this Qualification Submittal; that I am duly authorized to sign this Qualification Submittal on behalf of the above named company; and that all information set forth in this Qualification Submittal and all attachments hereto are, to the best of my knowledge, true, accurate, and complete as of its submission date.

I declare, under penalty of perjury, that the foregoing is true and correct and that this Declaration was executed in:

___________________________, in the State of ____________________________,

on ___________________________.

___________________________

(Signature)

END OF QUALIFICATION SUBMITTAL
4. UNIVERSITY OF CALIFORNIA CONSULTANT EXPERIENCE FORM

Complete this form if your firm has worked on a UC Campus in the last 5 years, or check this box to confirm that this is not applicable.

[ ] Have not worked at a UC Campus in the last 5 years.

<table>
<thead>
<tr>
<th>Firm's Role e.g. Architect, Geotechnical Consultant, etc.</th>
<th>Active UC projects - campus/project (list all for your firm)</th>
<th>Claims* or Litigation (Yes** or No)</th>
<th>All UC projects within last 5 years - campus/project (list all for each firm)</th>
<th>Claims* or Litigation? (Yes** or No)</th>
<th>All other projects with any claims* - active &amp; past 5 years (list all for each firm)</th>
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The information provided on this experience form was prepared by the office of the prime consultant listed above, who verifies under penalty of perjury that all information set forth on this form, to the best of my knowledge, is complete and accurate as of the date of submission of the Statement of Qualifications.

* Claims includes all pending, unresolved claims of professional negligence or breach of contract for professional services against your firm or any owner or principal of your firm.

** If yes, explain

Signature __________________________

Name __________________________

Title __________________________ Date __________________________

Attach additional pages if necessary for any category

if yes, explain
ATTACHMENT B
QUALIFICATION SUBMITTAL EVALUATION
For
Design Professional Services
FOR THE
Fine Arts Decking
PROJECT NO. 957449
UNIVERSITY OF CALIFORNIA, RIVERSIDE
JANUARY 5, 2022
(FORM TO BE COMPLETED BY UNIVERSITY)

COMPANY NAME: ________________________________

1. SURVEY (Information Only)  

2. INSURANCE  
   1) Complied with University’s insurance requirements. (Pass/Fail)  
      □ Yes - Pass  
      □ No - Fail  

3. SUBMITTAL (100 points possible)  
   Section 1: Cover Letter (maximum 2 pages) (10 points possible).  
   The Cover Letter should introduce the team and provide a brief history of the firm, including:  
   2) Number of years in business as the current entity or its legally-recognized predecessor.  
   3) Number of employees (aggregate of all office locations).  
   4) The individuals proposed to fill the following roles, at a minimum:  
      a) Designated principal-in-charge, authorized to make contractual commitments on behalf of the firm;  
      b) Designated project lead, responsible for delivery of services to the University in connection with the project;  
      c) Designated technical lead for the project.  
      d) Designated Healthcare/Medical Planner.  
   5) The firm’s office location that will be the firm’s primary base for delivery of services to the University in connection with the project.  

   Section 2: Project Team and Qualifications (30 points possible).  
   1) Team Organization Chart.  
   2) Explain the role of each individual and each proposed consultant, and explain how the individual's past experience is directly relevant to his/her proposed role and the specific services as described in the RFQ Advertisement.  
   3) Describe the Team’s, or Team members’, experience in working on comparable projects. the project  
   4) Provide a matrix that identifies the team members experience in working together on projects.  
   5) Resumes for each proposed team member, indicating individual’s experience relevant to the requirements of the project and relevant contact information such as their email address.
### Section 3: Describe relevant project experience (30 points possible).

#### 2.1.1 Section 3, Related Project Experience (30 points possible).

1) Describe a minimum of three (3) projects comparable to this work in which the firm has had a leading role (as either Architect of Record or Engineer of Record);
   a) For each of the projects cited under item 1) above, provide no more than four (4) pages containing the following information: brief project description, including owner, location and dates of engagement;
   b) No more than two (2) photographs or diagrams e.g. plans, conveying features relevant to the requirements of this project, as described herein;
   c) The firm’s scope of work;
2) Work scope, including services and deliverables.
3) Work product examples demonstrating design responses and graphic abilities,
4) Key personnel assigned to the project;
5) Construction Contract sum,
6) Start and completion construction dates.

### Section 4: Project Understanding (30 points possible).

1) Understanding of Design Professional's role, scope of services and deliverables, based on information provided herein.
2) Describe how Team would work with the University to achieve the project goals. Describe proposed approach and work plan, consistent with schedule and other information provided herein.

### University Consultant Experience Form
Completed, signed and dated. (Pass/Fail)

- Yes - Pass
- No - Fail

### DECLARATION
Completed, signed and dated. (Pass/Fail)

- Yes - Pass
- No - Fail

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**Evaluation Completed By:**

(Signature & Date)

(Printed Name)

(Title)

**Reviewed By:**

(Signature & Date)

(Printed Name)

(Title)
**ATTACHMENT C: EXECUTIVE DESIGN PROFESSIONAL AGREEMENT SAMPLE**

**EXECUTIVE DESIGN PROFESSIONAL AGREEMENT**

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UC Revision April 4, 2016
UCR Revision 2016-04-04
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EXECUTIVE DESIGN PROFESSIONAL AGREEMENT
between
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
and
THE DESIGN PROFESSIONAL

This AGREEMENT is made on ______ between The Regents of the University of California, a California Corporation, hereinafter called “University” and {INSERT THE NAME OF THE EXECUTIVE ARCHITECT OR ENGINEER} hereinafter called “Design Professional”.

1. IF THE FIRM IS A CORPORATION, USE THE CORPORATE TITLE.


The above named individual or firm shall be the Executive Architect or Engineer and shall comply with the licensing laws of the State of California regarding the practice of Architecture or Engineering in performing the services set forth in this Agreement for the following project:

{NOTE: THE FACILITY NAME, PROJECT NUMBER, AND PROJECT NAME MUST BE THE SAME AS THOSE RECORDED FOR FUNDING PURPOSES.}

UNIVERSITY OF CALIFORNIA, (FACILITY NAME)

(PROJECT NUMBER)

(PROJECT NAME)

PROJECT DESCRIPTION: Describe including approximate sq. ft.

CONSTRUCTION BUDGET: $
ARTICLE 1 - GENERAL PROVISIONS

1.1 GENERAL REQUIREMENTS

1.1.1 This Agreement shall be governed by the laws of the State of California.

1.1.2 In the event of a conflict between the provisions of any exhibit to this Agreement and the Agreement, the provisions of this Agreement shall govern.

1.1.3 University's exercise of any of its rights or remedies prescribed in this Agreement shall not relieve Design Professional from responsibility for damages or other losses incurred or to be incurred by University as a result of Design Professional's breach of its obligation under this Agreement.

1.1.4 Time is of the essence for this Agreement.

1.1.5 Design Professional shall cooperate with University, its designees, and Contractor in furthering the interests of University.

1.1.6 Design Professional shall cooperate with other professionals University may employ for related work.

1.1.7 To the extent required by University, Design Professional shall consult with authorized employees, agents, and representatives of University relative to the design and construction of a Project.

1.1.8 Design Professional shall perform all services in compliance with applicable laws, codes, regulations, ordinances, University policies, and Facility standards. University policies include without limitation those related to Seismic Safety and Sustainable Practices.

1.1.9 Services required by this Agreement include, at no additional cost to University, all services necessitated, in whole or in part, by errors and omissions of, or breach of this Agreement by, Design Professional, its subconsultants, or any person or entity working under Design Professional.

1.1.10 Consultant/Design Professional shall pay all persons providing services and/or any labor on site, including any University location, no less than UC Fair Wage (defined as $13 per hour as of 10/1/15, $14 per hour as of 10/1/16, and $15 per hour as of 10/1/17) and shall comply with all applicable federal, state and local working condition requirements.

1.2 DESIGN PROFESSIONAL STANDARD OF CARE

1.2.1 Design Professional, its officers, agents, employees, subcontractors, subconsultants and any persons or entities for whom Design Professional is responsible, shall provide all services pursuant to this Agreement in a manner consistent with the standard of care under California law applicable to those who specialize in providing such services for projects of the type, scope, and complexity of the Project (including its contracting mode).

1.3 DEFINITIONS

Unless defined differently herein, terms used in this Agreement shall have the same meaning as those used in University's Bidding Documents, General Conditions in the Exhibits.

NOTE: EXHIBITS MUST ALSO INCLUDE THE FACILITY’S STANDARD SPECIFICATIONS, DIVISION 1, GENERAL REQUIREMENTS.

1.3.1 Agreement. The term “Agreement” means this Agreement, Supplemental Requirements, Exhibits, Amendments, and all other documents identified in this Agreement which together form the agreement between University and the Design Professional for the Work. The Agreement constitutes the complete agreement between University and the Design Professional and supersedes any previous agreements or understandings.

1.3.2 Architect (or Engineer) of Record. The term “Architect of Record” or “Engineer of Record” shall mean the specific University-approved Design Professional named in this Agreement who is the Design Professional’s designated principal or staff member in charge of providing all services required by this Agreement.

1.3.3 As-builts (As-built Drawings and Specifications). The term “As-builts” shall mean the marked-up version of the Contract Documents prepared by the construction Contractor to record as-built conditions, current changes, and selections made during construction.

1.3.4 Bidding Documents. The term “Bidding Documents” shall mean those documents prepared and furnished by University for the purpose of obtaining bids from contractors to construct the Project, including without limitation, the General Conditions and General Requirements attached in the Exhibits.

1.3.5 Construction Budget. The term “Construction Budget” shall mean University’s written statement of funds available to pay for the cost of construction.

1.3.6 Construction Documents. The term “Construction Documents” shall mean the documents prepared and furnished by the Design Professional to be used for bidding the construction work for the Project.

1.3.7 Contract Documents. The term “Contract Documents” shall mean the Advertisement for Bids, Instructions to Bidders, Supplementary Instructions to Bidders, Bid Form, Agreement, General Conditions, Supplementary Conditions, Exhibits to the Construction Documents, Specifications, List of Drawings, Drawings, Addenda, Notice to Proceed, Change Orders, Notice of Completion and all other items identified as Contract Documents in the Construction Contract Agreement.

1.3.8 Coordination. The term “Coordination” shall mean that the documents shall be consistent and in conformance each part with all other parts.
1.3.9 *Estimated Project Construction Cost.* The term “Estimated Project Construction Cost” shall mean Design Professional’s written estimate in the form specified by University in the Exhibits, of the total Construction Cost of the Project at the various stages of the design process.

1.3.10 *Facility.* The term “Facility” means the University of California, Riverside.

1.3.11 *Project.* The term “Project” means the project described on page 1 of this Agreement.

1.3.12 *Project Architect (or Engineer).* The term “Project Architect” or “Project Engineer” shall mean the specific University-approved Design Professional named in this Agreement who is the Design Professional’s designated architect (or engineer) who is the first point of contact in providing all services required by this Agreement.

1.3.13 *Project Program.* The term "Project Program" shall mean a written statement in the Exhibits of University’s design objectives, constraints, and criteria, including space requirements and relationships, flexibility and expendability, special equipment and systems, and Project site requirements.

1.3.14 *Project Schedule.* The term “Project Schedule” shall mean the schedule prepared by University showing project milestones, funding, design, design review, construction, and other deadlines applicable to the Project.

1.3.15 *Record Documents.* The term "Record Documents" shall mean those documents (including without limitation the updated version of the Construction Documents) prepared by the Design Professional incorporating Addenda, Change Orders and information from the As-Builts and other data furnished by Contractor to Design Professional.

1.3.16 *University.* The term "University" shall mean the Regents of the University of California.

1.3.17 *University’s Representative.* The term "University’s Representative" shall mean the person or entity providing University’s Representative services as indicated in the Contract Documents including, but not limited to, issuance of written communications with the Contractor.

1.3.18 *University’s Designated Administrator.* The term "University’s Designated Administrator" shall mean the individual acting as University’s Designated Administrator pursuant to paragraph 4.1.1.

**ARTICLE 2 - BASIC SERVICES**

Basic Services to be provided by Design Professional include the services described in this Article 2 and as further described in the Supplemental Requirements in the Exhibits.

2.1 **GENERAL**

2.1.1 The services of Design Professional shall be performed in accordance with this Agreement and the Supplemental Requirements in the Exhibits.

2.1.2 To the extent deemed necessary by Design Professional, Design Professional shall employ architects, mechanical, electrical, structural, and civil engineers licensed as such by the State of California, and such other consultants necessary for the provision of services under this Agreement. All consultants provided under basic services shall be paid by Design Professional. Design Professional shall submit, for approval by University, names of consultants for each professional element of service of the Project. University-approved consultants provided under basic service shall be as named below:

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<tr>
<th>Consultant Name</th>
<th>Discipline</th>
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**Name of Project Architect or Engineer**

Additionally, the University may require other individuals working for the Design Professional or its subconsultants to attend design-related meetings as requested by University.

2.1.4 Design Professional shall assist University in fulfilling the requirements of the authorities and funding agencies whose interests bear on the design, cost, and construction of the Project.

2.1.5 Design Professional shall abide by all regulations imposed by authorities having jurisdiction over the Project.

2.1.6 Design Professional shall review site surveys; existing record documents; seismic data; mechanical, geotechnical, and other test reports; environmental documents, and any other documentation furnished by
University. From an examination of the site and a review of available information, Design Professional shall determine whether such data are sufficient for purposes of design or whether additional data are needed and, if so, recommend the manner in which it be provided and needed services obtained. Design Professional may rely on the information provided by University but only to the extent such reliance shall be consistent with Design Professional’s obligations under this Agreement.

2.1.7 Review, approval or acceptance of Design Professional’s work whether by University or others and whether during Schematic Design Phase, Design Development Phase, Construction Documents Phase, Bidding Phase, Construction Phase, Guarantee to Repair Period, or otherwise, shall not relieve Design Professional from responsibility for errors and omissions in Design Professional’s work.

2.1.8 Design Professional shall, at no cost to University, satisfactorily correct any and all errors, omissions, deficiencies, or conflicts in the Construction Documents prepared by Design Professional or Design Professional’s consultants promptly upon discovery or notice. The obligations of Design Professional to correct defective or nonconforming Work shall not in any way limit any other obligations of Design Professional.

2.2 SCHEMATIC DESIGN PHASE

2.2.1 Upon University's written direction to proceed, Design Professional shall provide Schematic Design Phase services described herein and in the Supplemental Requirements in the Exhibits including, without limitation, Schematic Design Documents for approval by University.

2.3 DESIGN DEVELOPMENT PHASE

2.3.1 Upon University’s written direction to proceed, Design Professional shall provide Design Development Phase services as described herein and in the Supplemental Requirements in the Exhibits and based on Schematic Design documents approved in writing by University and any written adjustments in the scope or quality of the Project or in the Construction Budget including, without limitation, Design Development Documents for approval by University.

2.4 CONSTRUCTION DOCUMENTS PHASE

2.4.1 Upon University's written direction to proceed, Design Professional shall provide Construction Documents Phase services as described herein and in the Supplemental Requirements in the Exhibits and based on Design Development documents approved in writing by University and any written adjustments in the scope or quality of the Project or in the Construction Budget including, without limitation, Construction Documents for approval by University.

2.4.2 The Drawings and Specifications shall be consistent with the University’s General Conditions in the Exhibits and the Division 1 tailored for the Project including but not limited to any Facility requirements.

2.5 BIDDING PHASE

2.5.1 Upon University’s written direction to proceed, Design Professional shall provide Bidding Phase services as described herein and in the Supplemental Requirements in the Exhibits.

2.5.2 If the lowest responsive total bid price received exceeds the Construction Budget 10%, University may, at its discretion, (1) authorize rebidding of the Project within a reasonable period of time; or (2) require Design Professional, at Design Professional’s expense, to modify the Project design and the Construction Documents in order to reduce the Estimated Project Construction Cost to a level that falls within the Construction Budget. Modifications proposed by Design Professional shall require University approval prior to incorporation into the revised documents.

2.6 CONSTRUCTION PHASE

2.6.1 Upon University's written direction to proceed, Design Professional shall provide Construction Phase services as described herein and in the Supplemental Requirements in the Exhibits.

2.6.2 The Construction Phase will commence on the date the Agreement between University and Contractor is signed by University and will terminate one year after Notice of Completion or Notice of Cessation, or in the absence of either a Notice of Completion or Notice of Cessation, one year after Final Completion.

2.6.3 Except as otherwise provided in the Contract Documents or as directed by University, all written communications with Contractor shall be sent and received by University’s Representative.

2.6.4 Design Professional shall render design interpretations of, and design decisions regarding, the Contract Documents that are necessary for the proper execution or progress of the Work including provision of clarifications and interpretations of the Contract Documents that are consistent with the intent of the documents but which do not involve a change in the scope of the Work. Such clarifications and interpretations shall not involve an adjustment of the Contract Sum or an extension of the Contract Time.

2.6.5 Design Professional shall not be responsible for construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Work, unless Design Professional specifies, directs, recommends or approves such means, methods, techniques, sequences, procedures, or safety precautions/ programs.

2.6.6 Design Professional shall prepare drawings and specifications needed to issue Field Orders and Change Orders as required by the Supplemental Requirements in the Exhibits.
2.6.7 No additional compensation shall be paid to Design Professional for the preparation of Change Orders, including the drawings, specifications, and supporting data and other services required in connection with the preparation of Change Orders until the total cumulative value (calculated by adding the absolute values of both additive and deductive changes not caused, in whole or in part, by Design Professional's errors or omissions) exceeds { } percent of the Contract Sum.

2.6.8 Design Professional shall provide Record Documents as described herein and in the Supplemental Requirements in the Exhibits.

2.6.9 Design Professional shall review the Work at 11 months after Substantial Completion or Final Completion, as applicable, and shall make written recommendations to University for the correction of any deficiencies as required by the Supplemental Requirements in the Exhibits. Dates for inspections shall be as mutually agreed by the parties within the 11th month timeframe. The number of work hours associated with the on-site review and preparation of written recommendations shall not exceed { } hours excluding review and preparation necessitated in whole or in part by Design Professional's errors and omissions.

2.7 INDEPENDENT SEISMIC/STRUCTURAL REVIEW

2.7.1 This Project is subject to an independent seismic/structure review conducted by University at University expense. Design Professional shall attend meetings as necessary to resolve all seismic issues. Design Professional shall present Drawings and other items as necessary to describe the Project design.

2.8 SCHEDULE

2.8.1 Design Professional acknowledges that all time limits stated in this Agreement are of the utmost importance to University. Design Professional shall meet the Project Schedule, which may be revised from time to time by mutual agreement, for completion of Design Professional's services.

2.8.2 Design Professional shall submit its proposed work plan for the performance of Design Professional's services within 5 calendar days following the later of (1) the execution date of this Agreement, or (2) the date on which University authorizes Design Professional to begin performing Schematic Design Phase services. Design Professional's work plan shall include without limitation, a schedule for how Design Professional will comply with the Project Schedule. Design Professional's work plan shall include allowances for the periods of time required for University's review and approval of submissions and for approvals by authorities having jurisdiction over the Project. Design Professional's work plan, when approved by University, shall not be exceeded by Design Professional except when University and Design Professional mutually agree, in writing, to a revised Project Schedule.

2.8.3 The total time scheduled for full completion of Design Professional's services for each phase of the Project shall not exceed the durations listed in the Project Schedule, unless mutually agreed upon in writing by Design Professional and University. The durations for University review period listed in the Project Schedule shall be computed from the date on which a clear, complete submittal is received by University. University's failure to meet its commitment to provide written requested information or to review within the stipulated time frames shall be cause for an adjustment in the Project Schedule. However, submittals received for review which are rejected, in writing, as not meeting the deliverables required by submittal requirements of this Agreement and the attachments thereto, shall not be cause for adjustment of the Project Schedule, and any such delay caused by such rejected submittals shall be at the sole responsibility of Design Professional.

ARTICLE 3 - ADDITIONAL SERVICES

Unless required in Article 2 of this Agreement or in the Supplemental Requirements to be performed as part of Basic Services, the services described in this Agreement and the Supplemental Requirements are Additional Services. These Additional Services shall be paid for by University, as provided in this Agreement, in addition to the compensation for Basic Services. Design Professional shall provide Additional Services only when and as authorized in a written instrument signed by University. No Additional Services shall be compensable unless so authorized.

ARTICLE 4 - UNIVERSITY RIGHTS AND RESPONSIBILITIES

4.1 ADMINISTRATION

4.1.1 University shall designate, in writing, an Administrator who will act on behalf of University with respect to this Agreement. Design Professional shall accept directives only from University's Designated Administrator and not from other University employees or consultants. University may replace University's Designated Administrator at its sole option; if this replacement is made, University shall notify Design Professional in writing.

4.1.2 University shall designate, in writing, prior to bidding, a University's Representative.

4.2 PROVISION OF INFORMATION, SURVEYS, REPORTS, AND DATA

4.2.1 University shall have the right to make changes to the Project Program. When such changes increase the duties of Design Professional beyond those reasonably and customarily provided in Basic Services, Design Professional shall be compensated in accordance with this Agreement.

4.2.2 University shall have the right to make reasonable changes to its Bidding Documents and Design Professional
shall be bound by such changes. When such changes increase the duties of Design Professional, beyond those reasonably and customarily provided in Basic Services, Design Professional shall be compensated in accordance with this Agreement.

4.2.3 University shall furnish structural, mechanical, electrical, chemical, soils, and other tests, inspections, and reports as required by law or by the Contract Documents, which are not required to be furnished by Contractor under the Contract Documents.

4.2.4 University shall update the Project Schedule as dates and durations applicable to the Project such as funding deadlines, review periods, anticipated periods of Project suspension, and construction deadlines become known.

4.2.5 If required for the performance of Design Professional's services, University shall furnish an accurate land survey of the Project site, giving, as applicable, grades and lines of streets, alleys, pavements, and adjoining property; rights-of-way, restrictions, easements, encroachments, zoning, deed restrictions, boundaries, and contours of the site; locations, dimensions, and floor elevations pertaining to existing buildings, other improvements, and trees; and information in University's possession concerning available service and utility lines, both public and private.

4.2.6 University shall furnish geotechnical data when these data are reasonably deemed necessary by Design Professional, including test logs, soil classifications, soil bearing values, and other data necessary to define subsoil conditions.

4.2.7 The University shall have the right to require Design Professional and its subconsultants to participate in meetings and provide documents and data (in addition to those required by Basic Services) and to perform Additional Services, pursuant to this Agreement, whether or not such Additional Services are described in the Agreement or the Supplemental Requirements.

4.2.8 The services, information, surveys, reports, and Additional Services required by this Article 4 shall be furnished at University's expense.

ARTICLE 5 - COMPENSATION

University will compensate Design Professional for the scope of services provided, in accordance with this Article 5 and with the other terms and conditions of this Agreement, as follows:

5.1 COMPENSATION FOR BASIC SERVICES

5.1.1 The fee for Basic Services shall be computed as follows:

For services rendered in accordance with this Agreement, the basis for compensation shall be a lump-sum fee in the amount stated in the Compensation Schedule Exhibit, payable upon completion of each Project phase, after the review and approval by University, in accordance with the Compensation Schedule. As an alternative to payment at the completion of each phase, with University’s prior approval, monthly payments based on the percentage of completion may be made, not to exceed the total fee due for each phase.

5.2 COMPENSATION FOR ADDITIONAL SERVICES OR FOR EXTENSION OF CONTRACT TIME

5.2.1 For the Additional Services of Design Professional, as described in Article 3, including the Additional Services of consultants, compensation shall be in accordance with the attached Design Professional Rate Schedule in the Exhibits.

5.2.2 If the Contract Time initially established in the Contract Documents at the time of award is exceeded or extended by a number of days in excess of 60 calendar days through the fault of University or Contractor and through no fault of Design Professional, compensation for any Basic Services provided during this extended period of the construction phase of the construction contract shall be adjusted to compensate Design Professional for any additional costs reasonably incurred by Design Professional as the result of such delay, provided University has approved such adjustments in advance. These extended Basic Services shall be approved, in writing, by University and shall not include Basic Services that would have been performed under this Agreement had the initial Contract Time not been substantially exceeded or extended.

5.2.3 If the Work of the Project is suspended or abandoned for more than 3 consecutive months, and such suspension was not scheduled at the beginning of the Project, as provided under subparagraph 4.2.4, Design Professional shall be compensated for all authorized services performed prior to the receipt of written notice from University of such suspension or abandonment, together with Reimbursable Expenses then due. If the Project is resumed after being suspended for more than 3 consecutive months, Design Professional's compensation shall be adjusted as mutually agreed to compensate Design Professional for any additional costs reasonably incurred as the result of the suspension.

5.3 REIMBURSABLE EXPENSES

5.3.1 For Reimbursable Expenses, as described in this paragraph 5.3, only actual costs will be reimbursed in accordance with the Reimbursement Schedule in the Exhibits. Paid invoices or other proof of payment shall be submitted when requesting reimbursement.

5.3.2 Reimbursable Expenses are paid in addition to the compensation for Basic and Additional Services and are actual expenditures made by Design Professional and Design Professional's consultants in the interest of the Project.

ARTICLE 6 - PAYMENTS

6.1 PAYMENTS FOR BASIC SERVICES

6.1.1 Payments for Basic Services, as defined in Article 2, shall be made as stipulated in subparagraph 5.1.1.
6.2 PAYMENTS FOR ADDITIONAL SERVICES AND REIMBURSABLE EXPENSES

6.2.1 Payments for Design Professional's Additional Services, as defined in Article 3, and for Reimbursable Expenses, as defined in paragraph 5.3, shall be made monthly after presentation of Design Professional's statement of services rendered, or expenses incurred, with invoices, receipts and other justification thereof.

6.2.2 Payments related to paragraph 5.2.2 shall be made monthly after presentation of Design Professional's statement of services rendered, or expenses incurred, with invoices, receipts and other justification thereof unless otherwise agreed by the parties thereto.

ARTICLE 7 - DESIGN PROFESSIONAL’S RECORDS AND FILES

7.1 Books and records relating to this Agreement shall be maintained in accordance with Generally Accepted Accounting Principles (GAAP) or International Financial Reporting Standards (IFRS). University or University's authorized representative shall have access to, the right to audit and the right to copy pertinent parts of Design Professional and Design Professional's consultants' books and records. Such records shall include but not be limited to accounting records (hard copy, as well as computer readable data); contracts; payroll records; subconsultant agreements; vendor agreements; purchase orders; leases; original estimates; estimating work sheets; correspondence; receipts; memoranda; and any other supporting evidence deemed necessary to substantiate charges under this agreement. All such books and records shall be preserved for a period of at least 3 years from the date of Final Payment under this Agreement.

7.1.2 Design Professional and Design Professional's consultants shall make their files available for inspection and copying by University upon reasonable notice.

7.1.3 Design Professional shall include appropriate language in consultant's agreements to enforce the provision of paragraph 7.1.2.

ARTICLE 8 - OWNERSHIP AND USE OF DOCUMENTS

8.1 DRAWINGS, SPECIFICATIONS, AND PRESENTATION MATERIALS

8.1.1 Drawings and Specifications shall become the property of University, whether or not the Project for which they are made is executed. Design Professional shall be permitted to retain copies, including reproducible copies, of the Drawings and Specifications for information and reference except as provided in paragraph 8.2. Neither University nor Design Professional shall use the Drawings and Specifications as a whole or in substantial part on other projects, but either may reuse details of the Drawings for other projects.

8.1.2 All presentation drawings, slides, and models shall become and remain the property of University.

8.1.3 University may purchase the design of the Project from Design Professional for its then fair market value. If University purchases the design of the Project, then University may use the Drawings and Specifications as a whole or in substantial part on other projects, and Design Professional may not use the Drawings and Specifications in whole, in part, or details thereof for other projects.

8.2 CONSTRUCTION DOCUMENTS

8.2.1 Design Professional, upon request, shall provide copies of the Construction Documents in the number required by University for bidding and construction purposes; the reproduction expense shall be borne by University. University reserves the right to select the type of document reproduction and to establish where the reproduction will be accomplished.

8.2.2 University may use the Construction Documents, without Design Professional's consent, in connection with the Project, including without limitation, future additions, expansions, renovations, alterations, connections, repairs, information, reference, use, or occupancy.

8.2.3 Except as provided in subparagraphs 8.2.1 and 8.2.2 University will not use the Construction Documents for another project without Design Professional's written consent unless University has purchased the design from Design Professional in accordance with subparagraph 8.1.3.

8.3 INDEMNIFICATION

8.3.1 University will defend, indemnify and save harmless Design Professional, its officers, agents and employees from any costs or claims for damages arising from University's use, on other projects, of the Construction Documents, the Drawings and Specifications, or the designs depicted in them. As used in this Article 8, the use "on other projects" does not include any of the uses specified in subparagraph 8.2.2.

8.3.2 Notwithstanding paragraph 8.3.1, University will not defend, indemnify or save harmless Design Professional, its officers, agents, or employees from any costs or claims asserted or imposed by any person or entity claiming that University's use of the Construction Documents, the Drawings and Specifications, or the designs depicted in them is contrary to or in violation of any copyright, patent, trade secret, trade name, trademark, or any proprietary, contractual or legal right pertaining to their use.

ARTICLE 9 - DISPUTES

9.1 NEGOTIATION

9.1.1 The parties will attempt in good faith to resolve any controversy or Claim arising out of or relating to this Agreement by negotiation.

9.2 MEDIATION

9.2.1 Within 60 days, but no earlier than 30 days, following
the earlier of (1) receipt of notice by the other party from the American Arbitration Association (AAA) of the disputing party’s demand for arbitration or (2) receipt by the other party of the disputing party’s notice of election to litigate, the parties shall submit the matter to non-binding mediation administered by the AAA under its construction industry mediation rules, unless waived by mutual stipulation of both parties.

9.3 ARBITRATION OR LITIGATION

Disputes arising from this Agreement between Design Professional and University which cannot be settled through negotiation or mediation shall be subject to arbitration or litigation as follows.

9.3.1 Arbitration with Contractor. If any claim arises under the Construction Contract Documents for the Project and is submitted to arbitration, and either Contractor or University claims that the acts or omissions of Design Professional are involved, in whole or in part, any claim by University against Design Professional arising out of or in connection therewith may be asserted, at the option of University, against Design Professional in the same arbitration proceeding which shall be conducted under the procedures specified in the General Conditions of the construction contract.

9.3.2 Litigation with Contractor. If any claim arises under the Construction Contract Documents for the Project and is submitted to litigation, and either Contractor or University claims that the acts or omissions of Design Professional are involved, in whole or in part, any claim by University against Design Professional arising out of or in connection therewith may be asserted, at the option of University, against Design Professional in the same litigation.

9.3.3 Arbitration without Contractor. Disputes arising from this Agreement between Design Professional and University which cannot be settled through negotiation or mediation, and which are not resolved by arbitration or litigation pursuant to subparagraphs 9.3.1. and 9.3.2 shall be subject to arbitration without Contractor conducted in accordance with the Construction Industry Arbitration Rules of the AAA then in effect. The following additional modifications shall be made to the aforesaid Rules of the AAA:

.1 Civil discovery shall be permitted for the production of documents and taking of depositions. Other discovery may be permitted in the discretion of the arbitrator. All disputes regarding discovery shall be decided by the arbitrator.

.2 University’s Representative and/or University’s consultants, shall if required by agreement with University, upon demand by University, join in and be bound by the arbitration.

.3 Concurrent disputes subject to this subparagraph 9.3.3 shall be consolidated into a single arbitration unless the parties otherwise agree in writing.

.4 No hearing shall be held prior to final completion of the Project unless University and Design Professional otherwise agree in writing.

.5 The exclusive forum for determining arbitrability shall be the Superior Court of the State of California.

.6 If total claims are less than $50,000, AAA expedited procedures as modified by this Article 9 shall apply. If total claims are between $50,000 and $100,000 they shall be heard by a single arbitrator who shall be an attorney. If total claims are in excess of $100,000 and are submitted to arbitration, the controversy shall be heard by a panel of 3 arbitrators, one of which shall be an attorney.

.7 The AAA shall submit simultaneously to each party to the dispute an identical list of at least 10 names of persons chosen from the National Panel of Commercial Arbitrators, and each party to the dispute shall have 10 days from the date of receipt in which to cross off any names objected to, number the remaining names in order of preference and return the list to AAA. If the expedited procedures of the AAA are applicable, the AAA shall submit simultaneously to each party an identical list of 5 proposed arbitrators drawn from the National Panel of Commercial Arbitrators, and each party may strike 3 names from the list on a peremptory basis and return the list to AAA within 10 days from the date of receipt.

Unless University and Design Professional otherwise agree in writing, the arbitration decision shall be made under and in accordance with the laws of the State of California, supported by substantial evidence. If the total of all claims or cross claims submitted to arbitration is in excess of $50,000, the award shall contain the basis for the decision, findings of fact, and conclusions of law. Any arbitration award shall be subject to confirmation, verification or correction under the procedures and on the grounds specified in the California Code of Civil Procedure including without limitation Section 1296.

The expenses and fees of the arbitrators and the administrative fees of the AAA shall be divided among the parties equally. Each party shall pay its own counsel fees, witness fees, and other expenses incurred for its own benefit.

The University may offset against the outstanding contract balance the amount of the University’s own affirmative claims against the Design Professional provided such claims are based upon alleged breaches of this Agreement or alleged failure to conform to the professional standard care set forth in Article 1.2 of this Agreement. The University shall inform the Design Professional in writing of its intention to offset on or before exercising its right to offset under this Agreement. Within three days following receipt of such written notice, the Design Professional may elect to submit the issue of the University’s intention to offset to non-binding mediation administered by the AAA. Such mediation shall take place not less than 15 days and not more than 45 days otherwise agree in writing.
following the date that the University receives notice of Design Professional’s election to mediate regarding the University’s intention to offset. The University’s obligation to pay any outstanding contract balance shall be stayed and tolled until the first business day following the date of the mediation concerning the University’s intention to offset. If the University decides to exercise its right to offset following mediation regarding the University’s intention to offset, notice of such offset shall be given to Design Professional by University in writing. If Design Professional does not demand mediation concerning the University’s intention to offset, then the University’s notice of its intention to offset shall be deemed notice of the decision to offset by the University. Irrespective of whether Design Professional elects to mediate the issue of the University intention to offset, Design Professional may dispute the University’s decision to offset by demanding arbitration or commencing litigation pursuant to the terms of Article 9.

9.4 PERSONAL INJURY, WRONGFUL DEATH OR PROPERTY DAMAGE

9.4.1 Claims for personal injury, wrongful death, or property damage (other than property damage to University) shall not be subject to arbitration under Paragraph 9.3.3.

ARTICLE 10 - INDEMNIFICATION AND INSURANCE

10.1 INDEMNIFICATION

10.1.1 Design Professional shall indemnify, defend, and hold harmless University and its Regents, officers, employees, agents, and representatives (collectively, “Indemnitee”), against all liability, demands, claims, costs, damages, injury including death, settlements, and expenses (including without limitation, interest and penalties) incurred by Indemnitee (“Losses”) arising out of the performance of services or Design Professional’s other obligations under this Agreement, but only in proportion to and to the extent such Losses are caused by or result from (1) the negligent acts or omissions of Design Professional, its officers, agents, employees, subcontractors, consultants, or any person or entity for whom Design Professional is responsible (collectively, “Indemnitor”); (2) the breach by Indemnitee of any of the provisions of this Agreement; or (3) willful misconduct by Indemnitor.

10.1.2 The indemnification obligations under this Article 10 shall not be limited by any assertion or finding that (1) the person or entity indemnified is liable by reason of non-delegable duty, or (2) the Losses were caused in part by the negligence of, breach of contract by, or violation of law by Indemnitee. The obligation to defend shall arise regardless of any claim or assertion that Indemnitee caused or contributed to the Losses. Indemnitor’s reasonable defense costs (including attorney and expert fees) incurred in providing a defense for Indemnitees shall be reimbursed by University except to the extent such defense costs arise, under principles of comparative fault, from Indemnitor’s (a) negligent acts or omissions; (b) breach of any of the provisions of this Agreement; or (c) willful misconduct.

10.1.3 Design Professional shall indemnify, defend, and save harmless Indemnitee from and against all loss, cost, expense, royalties, claims for damages or liability, in law or in equity, including, without limitation, attorney’s fees, court costs, and other litigation expenses that may at any time arise or be set up for any infringement (or alleged infringement) of any patent, copyright, trade secret, trade name, trademark or any other proprietary right of any person or entity in consequence of the use on the Project by Indemnitee of the design or construction documents (including any method, process, product, concept specified or depicted) supplied by Indemnitor in the performance of this Agreement.

10.1.4 Nothing in this Agreement, including the provisions of this Article 10, shall constitute a waiver or limitation of any rights which Indemnitee may have under applicable law, including without limitation, the right to implied indemnity.

10.2 INSURANCE REQUIREMENTS

Design Professional, at Design Professional’s sole cost and expense, shall insure its activities in connection with this Agreement and shall obtain, keep in force, and maintain insurance as listed below. The coverages required under Paragraph 10.2 shall not in any way limit the liability of Design Professional.

10.2.1 Commercial-Form General Liability Insurance with coverage and minimum limits as follows:

- .1 Each Occurrence $1,000,000
- .2 Products Completed, Operations Aggregate $1,000,000
- .3 Personal and Advertising Injury $1,000,000
- .4 General Aggregate $2,000,000

10.2.2 Business Automobile Liability Insurance for owned, scheduled, non-owned, or hired automobiles, with a combined single limit of no less than $1,000,000 per accident.

10.2.3 Professional Liability Insurance, with limits of $1,000,000 per claim and $2,000,000 in the aggregate. At the option of the University and in its sole discretion, the University may require Design Professional to purchase project specific professional liability insurance for the Project as a reimbursable cost with the minimum limits.

10.2.4 If the above insurance (subparagraphs 10.2.1-10.2.3) is written on a claims-made basis, it shall be maintained continuously for a period of no less than 3 years after the date of Final Completion. The insurance shall have a retroactive date of placement prior to or coinciding with the date services are first provided that are governed by the terms of this Agreement and shall include, without limitation coverage for professional services as called for in this
Agreement. Insurance required by subparagraphs 10.2.1-10.2.3 shall be (i) issued by companies that have a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody’s) or (ii) guaranteed, under terms consented to by the University (such consent to not be unreasonably withheld), by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody’s).

10.2.5 Workers’ Compensation as required by law in the state in which work is performed and Employer’s Liability insurance with coverage and minimum limits as follows:

- Each Employee $1,000,000
- Each Accident $1,000,000
- Policy Limit $1,000,000

Insurance required by this subparagraph 10.2.5 shall be issued by companies (i) that have a Best rating of B+ or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody’s); or (ii) that are acceptable to the University.

10.2.6 Design Professional, upon the execution of this Agreement, shall furnish University with Certificate of Insurance evidencing compliance with this Article 10, including the following requirements:

.1 Design Professional shall have the insurance company complete University’s form, Certificate of Insurance in the Exhibits. If Design Professional’s insurance company refuses to use the University’s Certificate of Insurance form, it must provide a Certificate of Insurance (and endorsements, if needed) evidencing compliance with Paragraph 10.2 and Special Provisions 1 through 3 on the Certificate of Insurance Exhibit. It alone constitutes evidence of insurance.

.2 Provide that coverage cannot be canceled without advance written notice to University, in accordance with policy provisions.

.3 If insurance policies are canceled for non-payment, University reserves the right to maintain policies in effect by continuing to make the policy payments and assessing the cost of so maintaining the policies against Design Professional.

.4 University, University’s officers, agents, employees, consultants, University’s Representative, and University’s Representative’s consultants, regardless of whether or not identified in the Contract Documents or to Design Professional in writing, will be included as additional insureds on Design Professional’s general liability policy for and relating to the Work to be performed by Design Professional and its consultants. Design Professional’s general liability insurance policy shall name University as an additional insured pursuant to additional insured endorsement CG2010 (11/85) or a combination of both CG 2010 (10/01 or 07/04) and CG 2037 (10/01 or 07/04). The General Liability coverage shall contain a Severability of Interest provision and shall be primary insurance as respects The Regents of the University of California, its officers, agents and employees. Any insurance or self-insurance maintained by The Regents of the University of California shall be excess of and non-contributory with this insurance. This requirement shall not apply to Worker’s Compensation and Employer’s Liability Insurance. The Professional Liability insurance policy shall include Contractual Liability Coverage or endorsements to the insurance policies for Contractual Liability Coverage for liability that would exist in the absence of the contract.

.5 The General Liability and the Professional Liability insurance policies shall apply to the negligent acts, or omissions of Design Professional, its officers, agents, employees, and for Design Professional’s legal responsibility for the negligent acts or omissions of its consultants and anyone directly or indirectly under the control, supervision, or employ of Design Professional or Design Professional’s consultants.

ARTICLE 11 - STATUTORY AND OTHER REQUIREMENTS

11.1 NONDISCRIMINATION

11.1.1 In connection with the performance of the Design Professional pursuant to this Agreement, Design Professional shall provide equal treatment to, and shall not willfully discriminate against or allow harassment of any employee or applicant for employment on the basis of: race; color; religion; sex; age; ancestry; national origin; sexual orientation; physical or mental disability; veteran’s status; medical condition (as defined in Section 12926 of the State of California Government Code and including cancer-related medical conditions and or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; gender identity, pregnancy, or citizenship (within the limits imposed by law or University’s policy) or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). Design Professional will also take affirmative action to ensure that any such employee or applicant for employment is not discriminated against on any of the bases identified above. Such equal treatment shall apply, but not be limited to the following: employment; upgrade; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Design Professional also agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Design Professional will, in all solicitations or advertisements for employees placed by or on behalf of the Design Professional, state that qualified applicants will receive consideration for employment without regard to: race; color; religion; sex; age; ancestry; national origin; sexual orientation;
physical or mental disability; veteran's status; medical condition (as defined in Section 12926 of the State of California Government Code and including cancer-related medical conditions and or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; gender identity, pregnancy, or citizenship (within the limits imposed by law or University's policy) or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). For purposes of this provision: (1) "Pregnancy" includes pregnancy, childbirth, and medical conditions related to pregnancy and childbirth; and (2) "Service in the uniformed services" includes membership, application for membership, performance of service, application for service, or obligation for service in the uniformed services.

11.2 PREVAILING WAGE RATES

11.2.1 For purposes of the Article, the term subcontractor or consultant shall not include suppliers, manufacturers, or distributors.

11.2.2 Design Professional shall comply and shall ensure that all Subcontractors or Subconsultants comply with prevailing wage law pursuant to the State of California Labor Code, including but not limited to Sections 1770, 1771, 1771.1, 1772, 1773, 1773.1, 1774, and 1775, 1776, 1777.5, and 1777.6 of the State of California Labor Code. Compliance with these sections is required by this Contract. The Work under this Contract is subject to compliance monitoring and enforcement by the State of California Department of Industrial Relations. References to "Covered Services" hereinafter shall mean services performed pursuant to this Agreement that are covered by the aforementioned provisions as implemented by the State of California Department of Industrial Relations.

11.2.3 The State of California Department of Industrial Relations has ascertained the general prevailing per diem wage rates in the locality in which the Project is to be performed for each craft, classification, or type of worker required to perform the Covered Services hereunder. A schedule of the general prevailing per diem wage rates will be on file at University’s principal facility office and will be made available to any interested party upon request. By this reference, such schedule is made part of the Agreement. Design Professional shall pay not less than the prevailing wage rates, as specified in the schedule and any amendments thereto, to all workers employed by Design Professional in the execution of the Covered Services hereunder. Design Professional shall cause all subcontracts or consultant agreements to include the provision that all subcontractors or consultants shall pay not less than the prevailing rates to all workers employed by such subcontractor or consultants in the execution of the Covered Services hereunder. Design Professional shall forfeit to University, as a penalty, not more than $200 for each calendar day or portion thereof for each worker that is paid less than the prevailing rates as determined by the Director of Industrial Relations for the work or craft in which the worker is employed for any portion of the Covered Services hereunder performed by Design Professional or any subcontractor or consultant. The amount of this penalty shall be determined by the Labor Commissioner pursuant to applicable law. Such forfeiture amounts may be deducted from the Design Professional's fee. Design Professional shall also pay to any worker who was paid less than the prevailing wage rate for the work or craft for which the worker was employed for any portion of the Covered Services hereunder, for each day, or portion thereof, for which the worker was paid less than the specified prevailing per diem wage rate, an amount equal to the difference between the specified prevailing per diem wage rate and the amount which was paid to the worker.

11.3 PAYROLL RECORDS

11.3.1 Design Professional and all subcontractors or consultants shall keep an accurate payroll record, showing the name, address, social security number, job classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyworker, apprentice, or other employee employed in connection with the Covered Services hereunder. All payroll records shall be certified as being true and correct by Design Professional or subcontractors or consultants keeping such records; and the payroll records shall be available for inspection at all reasonable hours at the principal office of Design Professional on the following basis:

.1 A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or the employee’s authorized representative on request.

.2 A certified copy of all payroll record shall be made available for inspection upon request to University, the State of California Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the State of California Division of Industrial Relations.

.3 A certified copy of all payroll records shall be made available upon request by the public for inspection or copies thereof made; provided, however, that the request by the public shall be made to either University, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. The public shall not be given access to such records at the principal offices of Design Professional or subcontractors or consultants. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by University shall be marked or obliterated in such a manner as to prevent disclosure of an individual’s name, address, and social security number. The name and address of Design Professional awarded the Agreement or performing the Agreement shall not be marked or obliterated.

11.3.2 Design Professional shall file a certified copy of the payroll records with the entity that requested the records.
within 10 days after receipt of a written request. Design Professional shall inform University of the location of such payroll records for the Project, including the street address, city, and county; and Design Professional shall, within 5 working days, provide notice of change of location of such records. In the event of noncompliance with the requirements of the Paragraph or with the State of California Labor Code Section 1776, Design Professional shall have 10 days in which to comply following receipt of notice specifying in what respects Design Professional must comply. Should noncompliance still be evident after the 10-day period, Design Professional shall forfeit to University, as a penalty, $100 for each day, or portion thereof, for each worker, until strict compliance is accomplished. Such forfeiture amounts may be deducted from the Design Professional’s fee.

11.4 APPRENTICES

11.4.1 Only apprentices, as defined in the State of California Labor Code Section 3077, who are in training under apprenticeship standards and written apprentice agreements under Chapter 4, Division 3, of the State of California Labor Code, are eligible to be employed by Design Professional and subcontractors or consultants as apprentices for the Covered Services hereunder. The employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and written apprentice agreements under which the apprentice is training and in accordance with prevailing wage law pursuant to the Labor Code, including but not limited to Section 1777.5. The Design Professional bears responsibility for compliance with this section for all apprenticeable occupations.

11.4.2 Every apprentice shall be paid the standard wage to apprentices, under the regulations of the craft or trade at which the apprentice is employed, and shall be employed only for the Covered Services hereunder in the craft or trade to which the apprentice is indentured.

11.4.3 When Design Professional or subcontractors or consultants employ workers in any apprenticeship craft or trade for the Covered Services hereunder, Design Professional or subcontractors or consultants shall apply to the joint apprenticeship committee, which administers the apprenticeship standards of the craft or trade in the area of the Project site, for a certificate approving Design Professional or subcontractors or consultants under the apprenticeship standards for the employment and training of apprentices in the area of the Project site. The committee will issue a certificate fixing the number of apprentices or the ratio of apprentices to journeymen, journeymen fixed in the certificate issued by the joint apprenticeship committee or present an exemption certificate issued by the Division of Apprenticeship Standards.

11.4.4 “Apprenticeship craft or trade”, as used in this Paragraph, shall mean a craft or trade determined as an apprenticeship occupation in accordance with rules and regulations prescribed by the Apprenticeship Council.

11.4.5 If Design Professional or subcontractors or consultants employ journeymen or apprentices in any apprenticeship craft or trade in the area of the Project site, and there exists a fund for assisting to allay the cost of the apprenticeship program in the trade or craft, to which fund or funds other contractors in the area of the Project site are contributing, Design Professional and subcontractors or consultants shall contribute to the fund or funds in each craft or trade in which they employ journeymen or apprentices on the Covered Services hereunder in the same amount or upon the same basis and in the same manner done by the other contractors. Design Professional may include the amount of such contributions in computing its compensation under the Agreement; but if Design Professional fails to do so, it shall not be entitled to any additional compensation therefore from University.

11.4.6 In the event Design Professional willfully fails to comply with this Paragraph 11.4, it will be considered in violation of the requirements of the Agreement.

11.4.7 Nothing contained herein shall be considered or interpreted as prohibiting or preventing the hiring by Design Professional or subcontractors or consultants of journeymen trainees who may receive on-the-job training to enable them to achieve journeymen status in any craft or trade under standards other than those set forth for apprentices.

11.5 WORK DAY

11.5.1 Design Professional shall not permit any worker providing Covered Services to labor more than 8 hours during any 1 day or more than 40 hours during any 1 calendar week, except as permitted by law and in such cases only upon such conditions as are provided by law. Design Professional shall forfeit to University, as a penalty, $25 for each worker employed in the execution of the Agreement by Design Professional, or any subcontractors or consultant, for each day during which such worker is required or permitted to work providing Covered Services more than 8 hours in any 1 day and 40 hours in any 1 calendar week in violation of the terms of this Paragraph or in violation of the provisions of any law of the State of California. Such forfeiture amounts may be deducted from the compensation otherwise due under this Agreement. Design Professional and each subcontractor or consultant shall keep, or cause to be kept, an accurate record showing the actual hours worked each day and each calendar week by each worker employed under this Agreement, which record shall be kept open at all reasonable hours to the inspection of University, its officers and agents, and to the
inspection of the appropriate enforcement agency of the State of California.

11.6  PATIENT HEALTH INFORMATION

11.6.1  Design Professional acknowledges that its employees, agents, subcontractors, consultants and others acting on its behalf may come into contact with Patient Health Information ("PHI") while performing work at the Project Site. This contact is most likely rare and brief (e.g. walking through a clinic where patient files may be visible, overhearing conversations between physicians while working or touring a hospital, noticing a relative or acquaintance receiving treatment in a University facility, etc.). Design Professional shall immediately notify University Representative of any such contact. Any and all forms of PHI should not be examined closer, copied, photographed, recorded in any manner, distributed or shared. Design Professional will adopt procedures to ensure that its employees, agents and subcontractors refrain from such activity. If Design Professional, its employees, agents or subcontractors do further examine, copy, photograph, record in any manner, distribute or share this information, Design Professional will report such actions immediately to the University Representative. Design Professional will immediately take all steps necessary to stop any such actions and will ensure that no further violations of this contractual responsibility will occur. Design Professional will report to University Representative within five (5) days after Design Professional gives University Representative notice of the event/action of the steps taken to prevent future occurrences.

ARTICLE 12 - EXTENT OF AGREEMENT

12.1  AUTHORITY OF AGREEMENT

12.1.1  This Agreement represents the entire and integrated agreement between University and Design Professional and supersedes all prior negotiations, representations, or agreements, either written or oral. This Agreement may be amended only by a written instrument in the form of the Amendment in the Exhibits signed by both University and Design Professional.

12.2  EXHIBITS

12.2.1  The following exhibits are incorporated and made part of this Agreement:

   .1 Amendment
   .2 Campus Design Guidelines, Campus Signage, Facilities Management System CAD Standards, Facilities Management System Room Numbering Standards, & GIS Data Standards Documentation
   .3 Certificate of Insurance
   .4 Compensation Schedule
   .5 Constructability Analysis / Quality Assurance
   .6 Estimated Project Construction Cost Format
   .7 Final Distribution of Contract Dollars
   .8 Project Program
   .9 Project Schedule
   .10 Proposal
   .11 Rate Schedule
   .12 Regulatory Agencies & Approval Requirements
   .13 Reimbursement Schedule
   .14 Self-Certification
   .15 Supplemental Requirements
   .16 Sustainability Score Sheet (New Construction / Major Renovation OR Renovation)
   .17 University's Bidding Documents, General Conditions & Specifications Division 1, General Requirements
   .18 Value Engineering Program

12.3  THIRD-PARTY BENEFICIARIES

Nothing contained in this Agreement is intended to make the construction Contractor or any construction Subcontractor (regardless of tier), any employee or agent of the construction Contractor or any Subcontractor or any person, including any consultant of Design Professional (regardless of tier), a third-party beneficiary of any obligations between University and Design Professional.

12.4  SURVIVAL

The provisions of this Agreement which by their nature survive expiration or termination of the Agreement or Final Completion of the Project or the performance of services under this Agreement, including any and all warranties, indemnities, payment obligations, and University’s right to audit Design Professional’s and Design Professional’s consultants’ books and records, shall remain in full force and effect after any expiration or termination of the Agreement or Final Completion of the Project or the performance of services under this Agreement.

ARTICLE 13 - FEDERAL AND STATE GRANTS

In the event that a federal or state grant or other federal or state financing is used in the funding of this Project, Design Professional shall permit the funding agency or its designee access to, and grant the funding agency the right to examine, documents covering the services performed under this Agreement. Design Professional shall comply with applicable federal or state agency requirements including, but not limited to, the requirements regarding hours, overtime compensation, nondiscrimination, and contingent fees.

ARTICLE 14 - NOTICES

14.1  UNIVERSITY

14.1.1  Any notice may be served upon University by delivering it, in writing, to University at the address set forth on the last page of this Agreement, or by depositing it in a United States Postal Service deposit box with the postage fully prepaid and with the notice addressed to University at the
address set forth on the last page of this Agreement, or by sending a facsimile of the notice to University’s facsimile number set forth on the last page of this Agreement. Notice is effective only if and when it is actually received.

14.2 DESIGN PROFESSIONAL

14.2.1 Any notice may be served upon Design Professional by delivering it, in writing, to Design Professional at the address set forth on the last page of this Agreement, by depositing it in a United States Postal Service deposit box with the postage fully prepaid and with the notice addressed to Design Professional at the address set forth on the last page of this Agreement, or by sending a facsimile of the notice to Design Professional’s facsimile number set forth on the last page of this Agreement. Notice is effective only if and when it is actually received.

ARTICLE 15 - SUCCESSORS AND ASSIGNS

This Agreement shall be binding upon University and Design Professional and their respective successors and assigns. Neither the performance of this Agreement, nor any part thereof, nor any monies due or to become due hereunder, may be assigned by Design Professional without the prior written consent and approval of University.

15.1 DESIGN PROFESSIONAL’S DEATH OR INCAPACITATION

15.1.1 If Design Professional transacts business as an individual, upon Design Professional’s death or incapacitation, University may, at its option, terminate this Agreement as of the date of such event. If so terminated, neither Design Professional, nor Design Professional’s estate shall have any further right to perform hereunder, and University shall pay Design Professional or the estate the compensation payable under Article 5 for any services rendered prior to this termination not theretofore paid. This compensation shall be reduced by the amount of additional costs that will be incurred by University by reason of this termination.

15.1.2 If there is more than one Design Professional, and any one of them dies or becomes incapacitated, and the others continue to render the services covered herein, University will make payments to those continuing as though there had been no such death or incapacitation; University will not be obliged to take any account of the person who died or became incapacitated, or to make any payment to this person or this person’s estate. These provisions shall apply in the event of progressive or simultaneous occasions of death or incapacitation among any group of persons named as Design Professional herein if death or incapacitation befalls the last member of this group before the services under this Agreement are fully performed, then the rights set forth under subparagraph 15.1.1 shall apply.

ARTICLE 16 - TERMINATION OF AGREEMENT

16.1 UNIVERSITY-INITIATED TERMINATION

16.1.1 If University determines that Design Professional has failed to perform in accordance with the terms and conditions of this Agreement, University may terminate all or part of the Agreement for cause. This termination shall be effective if Design Professional does not cure its failure to perform within 10 days (or more, if authorized in writing by University) after receipt of a notice of intention to terminate from University specifying the failure in performance. If a termination for cause does occur, University will have the right to withhold monies otherwise payable to Design Professional until the Project is completed. If University incurs additional costs, expenses, or other damages due to the failure of Design Professional to properly perform pursuant to the Agreement, these costs, expenses, or other damages shall be deducted from the amounts withheld. Should the amounts withheld exceed the amounts deducted, the balance will be paid to Design Professional upon completion of the Project. If the costs, expenses, or other damages incurred by University exceed the amounts withheld, Design Professional shall be liable to University for the difference.

16.1.2 University may terminate this Agreement for convenience at any time upon written notice to Design Professional, in which case University will pay Design Professional in full for all services performed and all expenses incurred under this Agreement up to and including the effective date of termination. In ascertaining the services actually rendered to the date of termination, consideration will be given to both completed Work and Work in progress, whether delivered to University or in the possession of Design Professional, and to authorized Reimbursable Expenses. No other compensation will be payable for anticipated profit on unperformed services.

16.2 DESIGN PROFESSIONAL-INITIATED TERMINATION

16.2.1 Design Professional may terminate this Agreement for cause if University fails to cure a material default in performance within a period of 30 days, or such longer period as Design Professional may allow, after receipt from Design Professional of a written termination notice specifying the default in performance. In the event of termination for cause by Design Professional, University will pay Design Professional in accordance with subparagraph 16.1.2.

16.3 DOCUMENTS AND MATERIALS

16.3.1 In the event of Agreement termination by either party for any reason, University reserves the right to receive, and Design Professional shall promptly provide to University, all Drawings, Specifications, models, and other documents, data, and materials prepared or generated by Design Professional and its subconsultants for the Project. In the event of termination, any dispute regarding the amount to be paid under Article 16 shall not derogate from the right of University to receive and use any such documents or materials.

ARTICLE 17 - STATISTICAL REPORTING
At the commencement of performance, Design Professional shall complete and submit, and require each subconsultant who performs services under this Agreement to complete and submit, a certification in the form of the Self-Certification. At the completion of work, Design Professional shall complete and submit a report of the distribution of compensation received under this Agreement in the form of the Final Distribution of Contract Dollars.
IN WITNESS WHEREOF, UNIVERSITY and DESIGN PROFESSIONAL have executed this Agreement as of the date first written above (see Cover Page).

DESIGN PROFESSIONAL:

(Name of Company)

By: ________________________________

(Signature & Date) ____________________

(License Number) ____________________

(Print Name & Title) ____________________

Address: ________________________________

Telephone Number(s): ________________________________

Facsimile Number: ________________________________

Recommended:

By: University’s Representative

(Fund) (Function) (Cost Center) (Project Code)

UNIVERSITY:

By: The Regents of the University of California

University of California, Riverside

(Blythe R. Wilson, Architect)

Director of Project Management

Planning, Design & Construction

(instruction & Date)

Name

Title

Planning, Design & Construction

(Signature & Date)

Susan McFadden

Senior Financial Analyst

Planning, Design & Construction

(Facsimile Number)

Address: University of California, Riverside

Planning, Design & Construction

1223 University Avenue, Suite 240

Riverside, CA 92521

Telephone Number: 951.827.4064

Facsimile Number: 951.827.3890

Account No.: __________ Activity Code: __________

Fund: __________ Function: __________

Cost Center: __________ Project Code: __________
EXECUTIVE SUMMARY

UCR Fine Arts Decking Survey & Study Phase
Project No. 957449
December 17, 2020

The Fine Arts Building at the University of California, Riverside, was constructed in 2002. The 98,000 sq. ft. Fine Arts Building consists of several interconnected buildings, varying from the one-story Performance Lab, to the majority of the building mass four stories above grade.

The Fine Arts Deck (Central Plaza) at the ground level occurs partially over basement space, and partially on grade. An amphitheater stair on the East edge of the site rises to an enlarged second-level landing connected to the North wall of the Performance Lab building.

A bridge structure connects this second level landing to the East side of the four-story main building.

As of September 2019, the University has identified several areas of existing building deficiencies to be assessed and ultimately repaired or retrofitted. These deficiencies are categorized into two separate but related projects:

UCR Fine Arts Decking Survey & Study Phase, Project No. 957449
UCR Fine Arts Performance Lab Exterior Survey & Study Phase, Project No. 957450

This report is a compilation of limited assessment and conceptual repair recommendations specifically addressing the Fine Arts Decking project (highlighted above).

- At the Fine Arts Deck, the existing slope in certain areas has been determined to be insufficient for acceptable storm run-off performance. In some cases, low points were observed at building entry areas, resulting in repeated water damage to the interior. The existing area drains are also determined to be undersized.

- At the Fine Arts Deck, the existing traffic coating has failed in several locations and may have caused leaks in the building that may have contributed to corrosion and stain observed in basement ceiling assembly below the deck.

- At the Level 2 Bridge, there are several deteriorated conditions at joints between constructed assemblies, including but not limited to efflorescence and staining of plaster under the bridge, exposed and corroded structural steel members, and cracked and debonded traffic coating and sealants.
This report is prepared by the following project team in 2020:

- Chu+Gooding Architects, Executive Architect
  
  Contact for Information:
  Annie Chu, FAIA, Principal in Charge _ annie@cg-arch.com
  Jacqueline Wei, Project Manager _ jacqueline@cg-arch.com

- KPFF, Civil Engineer
- Simpson Gumpertz & Heger, Waterproofing Consultant
- Nabih Youssef & Associates, Structural Engineer
- P2S Engineering, Plumbing Engineer
- C. P. O'Halloran & Associates, Cost Estimator
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Exterior Remediation Design Assessment by Simpson Gumpertz & Heger
(separate document)
UC Riverside Fine Arts
Basement & Ground Level Plan: Overlay Sketch
1/21/2020

Legend:
- Yellow: Ground Level
- Green: Areas Out of Scope
- Orange: Areas Added to Scope
- Red: Basement
- Dashed: Coated Decking
UCR FINE ARTS DRAINAGE STUDY

900 UNIVERSITY DRIVE, RIVERSIDE, CA 92521

KPFF JOB # 1900895

OWNER:
University of California, Riverside

PREPARED BY:
KPFF Consulting Engineers
700 S Flower Street, Suite 2100
Los Angeles, CA 90017
(213)418-0201
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1.0 INTRODUCTION

The primary objective of this study is to analyze the local behavior of storm run-off and the aptitude of existing drainage infrastructure near UCR Fine Arts building and recommend improvements to mitigate unfavorable drainage conditions. Construction Documents of recommendations are not part of this study. However, supporting exhibits showing the existing condition and conceptual plans for the recommendations are provided. The total drainage area under this study is approximately 0.33 acres. Refer to Exhibit 1: Existing Drainage Map in Appendix A and section 2.1 for details regarding the existing drainage.
2.0 EXISTING CONDITIONS

2.1 Existing Site Description

The area of study is within the University of California, Riverside campus located at 900 University Drive, Riverside, CA 92521. The area of study is bound by University Avenue to the north, W Campus Drive to the west, CHASS Interdisciplinary Building to the east, and Ivan’s at Hinderaker café to the south. See Figure 1 for the vicinity map of the project site.

According to the KPFF laser scanning survey, the area of study is relatively flat, and it consists of several drainage areas that are separated by ridges. The highest elevation within the area of study is 1041.5-ft, and the lowest elevation is 1040.9-ft. The area of study is partly on at-grade
hardscape and partly on a structural deck, which consists of a metal plate covered by concrete. The area of study has been mapped outside of all special flood hazard areas and is designated as Zone X as shown on FEMA Flood Insurance Rate Map (FIRM) Panel 06065C0727G, dated November 28th, 2008. Zone X is described as: "Areas to be outside the 0.2% (500 year) annual chance floodplain." Refer to Appendix B for the FIRM map.

2.2 Storm Drain Conveyance Data and Assumptions

Information regarding the existing underground storm drain pipe sizes, materials, and invert elevations were compiled using the KPFF laser scanning survey for visible features; civil, structural, and plumbing as-builts for Fine Arts Seismic Facility dated March 27th, 1998, architectural Fine Arts Seismic Facility as-builts dated June 1st, 2002, and our site-walk visual observations. All Fine Arts Seismic Facility as-builts were provided by UCR. This information also served as a basis to generate the exhibits of this report. Refer to Exhibit 2: Existing Storm Drain Infrastructure in Appendix A.

It is important to note that existing storm drain information shown on plumbing and civil as-builts did not entirely match current conditions that were captured on the KPFF survey. In addition, plumbing and civil as-builts also showed conflicting information and did not line up with each other. For purposes of this study, KPFF made the following engineering based assumptions of the existing storm drain system routing.

- Locations of area drains on plumbing and civil as-builts did not entirely match the current locations that were captured on the KPFF survey. It was assumed that the original storm drain layout shown on the as-builts is correct. Therefore, slight adjustments were made to connect the area drains captured by the KPFF survey team with the as-built main storm drain pipe.
- The size of area drains on plumbing as-builts did not match the original 12" x12" size specified on civil as-builts. During a site visit, KPFF civil team measured the area drain grate to be 8" diameter.
- Point of connection (POC) locations on plumbing and civil as-builts did not entirely match each other. Some of the POCs were slightly shifted to ensure that storm drain lines shown on plumbing and civil as-builts are connected.
3.0 EXISTING DRAINAGE AREA PEAK FLOW CALCULATIONS

Riverside County Flood Control & Water Conservation District Rational Method was used to calculate the 10-year storm surface run-off.

The rational method is based on the following equation:

\[ Q = CIA \]

where:

- \( Q \) = Peak discharge - cfs
- \( C \) = Coefficient of runoff
- \( I \) = Rainfall intensity (inches/hour) corresponding to the time of concentration
- \( A \) = Area – acres

According to the Riverside County Flood Control & Water Conservation District Hydrology Manual, run-off coefficient curves can be developed using the relationship:

\[ C = 0.9 \left[ A_i + \frac{1 - F_p}{T} A_p \right] \]

where:

- \( C \) = Runoff coefficient
- \( I \) = Rainfall intensity - inches/hour
- \( F_p \) = Infiltration rate for pervious areas - inches/hour
- \( A_i \) = Impervious area (actual) - decimal percent
- \( A_p \) = Pervious area (actual) - decimal percent

and \( A_p = 1.00 - A_i \)

In practice, it is not necessary for the engineer to make these computations, since run-off coefficient curve data has been tabulated by the Water Conservation District on Plate D-5.7 of
Riverside County Flood Control & Water Conservation District Hydrology Manual for the working range of run-off index (RI) numbers.

The time of concentration $T_c$ was found using plate D-3 of the hydrology manual. The rainfall intensity $I$ for a 10-year storm was found using plate D-4.1 (Riverside) of the hydrology manual. The rainfall coefficient $C$ was determined using plate D-5.3 for soil group C of the hydrology manual. See Appendix D for charts that were used for $T_c$, $I$, and $C$ computations.

**TABLE 3.1: 10-Year Storm Peak Flow Calculations**

<table>
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<tr>
<th>Drainage Area</th>
<th>Area (acres)</th>
<th>$T_c$ (min)</th>
<th>Intensity (in/hr)</th>
<th>Runoff Coefficient (C)</th>
<th>Peak 10-year storm (cfs)</th>
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<td>16.5</td>
<td>1.48</td>
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</table>
4.0 SUMMARY OF EXISTING DRAINAGE CONDITIONS

Existing site conditions were analyzed using the KPFF survey, as-builts provided by UCR, and site-walk. KPFF performed slope analysis using AutoCAD Civil 3D software. It was found that the area of study consists of several drainage areas that are separated by ridges (see Exhibit 1). The ridges are designed to help direct storm water to exist area drains that are located in low points of each drainage area. However, it was found that a lot of drainage areas have inadequate drainage slope to convey the storm water into the area drain. Exhibit 1 shows 3 types of areas with drainage issues:

- Areas with slopes of 0 to 0.25%
- Areas with slopes of 0.25 to 0.5%
- Low areas that have no storm drain inlets

Generally, concrete areas with a slope greater than 0.5% do not experience any ponding issues. Areas with slopes of 0-0.25% and 0.25-0.5% are too flat for run-off to flow into the inlets, which can cause ponding. It is important to note that several of these areas are located near building doors. In addition, finished floor elevations are lower than adjacent grades which increases the risk of water intrusion.

The third type of problematic areas is low areas with no storm drain inlets. These areas are lower in grade than the rest of the site, so run-off tends to accumulate near them. However, these areas do not have inlets to capture the run-off, which can cause ponding issues.

Based on plumbing and civil as-builts, there are two 12” x12” storm drain catch basins and several area drains within the site. The run-off is collected by one 4” and two 6” storm drain pipes sloping at 2%. The pipes eventually connect to a 24” reinforced concrete storm drain pipe to the east that runs underneath a walkway between the Fine Arts and CHASS Interdisciplinary buildings (see Exhibit 2). Based on our preliminary hydrology and hydraulics calculations, the flow capacity of storm drain pipes shown on the plans is greater than the run-off produced within their drainage areas. (see Appendix D). This shows that, if constructed according to the plans, the pipes are adequately sized and sloped. However, since the pipes are located underground, their size and slope have not been verified.

While reviewing civil as-builts, it was noticed that all storm drain inlets at the concrete deck of the building were shown to be 12” x12” inlets. However, 8” area drains currently exist instead. Based on our preliminary calculations, it appears that some of the drains are inadequately sized,
which could be contributing to the current ponding issues observed on the concrete deck.

In addition, it was observed that there is debris buildup and large leaves within the area drains, and it is possible that the pipes could be clogged. Refer to Appendix E photos 1 and 2 to see the buildup on the grates.

During a site visit, KPFF civil team noticed extensive cracking in the concrete near the drains and on the structural deck. It was also noticed that the concrete on top of the structural deck cracked significantly more than the concrete on grade. Refer to Appendix E photos 3 and 4 to see the cracking near the drains and refer to photo 5 to see cracking on top of the structural deck.
5.0 RECOMMENDATIONS TO ALLEVIATE PONDING

Based on a coordination call with Chu+Gooding Architects and UCR PM, Tameesha Hayes on August 26th, 2020, KPFF identified high risk/priority areas that we recommend addressing first followed by areas with lower priority. Areas of high priority are mainly located near building doors because ponding in these areas creates a risk of water intrusion into the building. Refer to Exhibit 3 for recommendations for high risk/priority areas and Exhibit 4 for recommendations for areas with lower priority. These recommendations must be reviewed by a structural and plumbing engineer to confirm their feasibility. The following are action categories/recommendations that are being considered for the project based on the level of complexity and ease of construction:

   a) Jet cleaning the storm drain system regularly
      KPFF survey team opened all area drains while surveying, and it was noticed that there is a build-up of debris and large leaves within the area drains. The build-up could be blocking storm water from flowing into the pipes, which could lead to ponding near the drains. Therefore, it is recommended to jet clean the system regularly.

   b) Upsizing existing drains to 12” x 12” catch basins as originally specified in civil as-builts
      Upon review of civil as-builts, it was found that all existing drains were originally specified as 12” x 12” catch basins instead of 8” area drains. The relatively smaller sized area drains with reduced capacity could be contributing to the current ponding issues observed on the concrete deck. Therefore, it is recommended to upsize some of the drains. Refer to Exhibits 3 and 4 for more detail.

   c) Adding new drains over areas not on top of structural deck
      Several problematic areas do not have any storm drain inlets to capture the run-off. Based on our review of structural and architectural as-builts, some of the areas are not on top of the structural deck. Refer to exhibits in Appendix A for the areas outside of the structural deck limits. Since these areas are directly on grade, it is relatively easy to add new storm drain piping, area drains, and catch basins in these areas. Refer to Exhibits 3 and 4 for these locations.
d) Adding new drains over the structural deck
There are several problematic areas with inadequate area drains that are located on top of the structural deck. It is recommended to add more area drains and new piping in these areas to ensure that the entire run-off is collected. However, the fact that the drains will be added over the structural deck makes the process more costly and complicated, which will require input from a structural and plumbing engineer. Refer to Exhibits 3 and 4 for more detail.

e) Changing the finished floor elevation to provide adequate drainage away from the building
KPFF’s study indicates that many of the site ponding issues are related to poor slope conditions. It is recommended for concrete paved areas to slope a minimum of 0.5% to provide adequate drainage. There are numerous areas that have slopes of less than 0.5% (see Exhibit 1). Even if these areas have storm drain inlet, the water cannot drain towards them due to the poor drainage slope. Based on coordination call on September 15th, 2020 with Chu+Gooding Architects, Nabih Yousseff Structural Engineers, and UCR PM, Tameesha Hayes, it might be possible to raise the finished floor elevation inside some of the offices. New lightweight concrete on top of the structural deck would be required to join existing grades to the new finished floor elevation. The new lightweight concrete will help drain away from the building. Refer to Exhibit 5 for areas where the finished floor might change. The existing structural deck shall be analyzed by a structural engineer to determine the maximum thickness of lightweight concrete that can be added on top of the deck.

KPFF recommends that the above-mentioned action categories are implemented throughout the entire area of study to address the existing drainage issues. However, based on conversations with the team, due to budget constraints it is preferred to focus on areas of high priority followed by the areas outside of the structural deck limits. Refer to Exhibit 5 for areas of interest.
One of the areas of interest is the area near the Performing Arts Administration office. It is our understanding that this area is usually protected with sandbags to avoid water intrusion during rain events. The existing finished floor elevation of the office is lower than the adjacent grades, which increases the risk of water intrusion. This issue could be addressed by raising the office's finished floor elevation and adding a new area drain to collect the rain water that usually ponds in this area.

Additionally, it was noticed that a restroom area near the Administration office also experiences ponding issues. Refer to Exhibit 5 for location of the area and Appendix E photo 6 to see ponding near the restrooms. The restrooms are outside of current limits of study; however, KPFF recommends UCR includes this area in the scope of repair work.

The second area of interest is the area near the Fine Arts Faculty Offices. Similarly to the Performing Arts Administration office, the finished floor elevation in this area is lower than the adjacent grades. The ponding issues near the offices could be addressed by raising the finished floor elevation.

The final areas of interest are the areas outside of structural deck limits. These areas are located near Dance Studio 100, Performance lab 166, and Music Rehearsal Hall. Ponding issues in these areas can be addressed by replacing the concrete, adding new area drains, and grading the concrete towards new drains to provide adequate drainage.
APPENDIX A

Report Exhibits
EXHIBIT 1

Existing Drainage Map
EXHIBIT 2

Existing Storm Drain Infrastructure
NOTE:
EXISTING STORM DRAIN INFRASTRUCTURE LAYOUT WAS OBTAINED USING CIVIL AND PLUMBING AS-BUILTS FOR FINE ARTS SEISMIC FACILITY PROJECT. SINCE THE PIPES ARE LOCATED UNDERGROUND, THEIR SIZE AND SLOPE HAVE NOT BEEN VERIFIED. LOCATIONS OF AREA DRAINS ON PLUMBING AND CIVIL AS-BUILTS DID NOT MATCH THE CURRENT LOCATIONS.
EXHIBIT 3

Recommendations for areas of priority/high risk
Existing storm drain infrastructure layout was obtained using civil and plumbing as-buils for fine arts seismic facility project. Since the pipes are located underground, their size and slope have not been verified. Locations of area drains on plumbing and civil as-buils did not match the current locations. Points of connection on plumbing and civil as-buils did not match each other.

Note:

Proposed catch basin. Exact locations of proposed catch basins and new piping is to be determined based on future input from plumbing and structural engineer.

Legend:

- Approximate limits of problematic areas
- Pipe flow direction
- Limits of study
- Building door
- Areas outside of structural deck limits
- Proposed surface elevation
- Existing surface elevation
- Existing area drain
- Existing catch basin
- Existing cleanout
- Existing manhole
- Proposed catch basin

Existing storm drain (from civil as-buils)
Existing storm drain (from plumbing as-buils)
Assumed layout of existing storm drain

10/13/2020

LKPFF
EXHIBIT 4

Recommendations for areas lower priority
NOTE:
EXISTING STORM DRAIN INFRASTRUCTURE LAYOUT WAS OBTAINED USING CIVIL AND PLUMBING AS-BUILTS FOR FINE ARTS SEISMIC FACILITY PROJECT. SINCE THE PIPES ARE LOCATED UNDERGROUND, THEIR SIZE AND SLOPE HAVE NOT BEEN VERIFIED. LOCATIONS OF AREA DRAINS ON PLUMBING AND CIVIL AS-BUILTS DID NOT MATCH CURRENT LOCATIONS. POINTS OF CONNECTION ON PLUMBING AND CIVIL AS-BUILTS DID NOT MATCH EACH OTHER.
EXHIBIT 5

Recommendations for Interest Areas per Team Coordination
NOTE:
EXISTING STORM DRAIN INFRASTRUCTURE LAYOUT WAS OBTAINED USING CIVIL AND PLUMBING AS BUILTS FOR FINE ARTS SEISMIC FACILITY PROJECT. SINCE THE PIPES ARE LOCATED UNDERGROUND, THEIR SIZE AND SLOPE HAVE NOT BEEN VERIFIED. LOCATIONS OF AREA DRAINS ON PLUMBING AND CIVIL AS-BUILTS DID NOT MATCH THE CURRENT LOCATIONS. POINTS OF CONNECTION ON PLUMBING AND CIVIL AS-BUILTS DID NOT MATCH EACH OTHER.

EX-5: RECOMMENDATIONS FOR AREAS OF INTEREST PER TEAM COORDINATION

LEGEND:
- APPROXIMATE LIMITS OF PROBLEMATIC AREAS
- APPROXIMATE LIMITS OF REGRADING
- PIPE FLOW DIRECTION
- LIMITS OF STUDY
- BUILDING DOOR
- AREAS OUTSIDE OF STRUCTURAL DECK LIMITS
- PROPOSED SURFACE ELEVATION
- EXISTING SURFACE ELEVATION
- PROPOSED SLOPE

EXISTING AREA DRAIN
EXISTING CATCH BASIN
EXISTING CLEANOUT
EXISTING MANHOLE
PROPOSED CATCH BASIN. EXACT LOCATIONS OF PROPOSED CATCH BASINS AND NEW PIPING IS TO BE DETERMINED BASED ON FUTURE INPUT FROM PLUMBING AND STRUCTURAL ENGINEER.
EXISTING STORM DRAIN (FROM CIVIL AS-BUILTS)
EXISTING STORM DRAIN (FROM PLUMBING AS-BUILTS)
ASSUMED LAYOUT OF EXISTING STORM DRAIN
PROPOSED STORM DRAIN. THE LAYOUT IS CONCEPTUAL AND MUST BE CONFIRMED BY THE PROJECT'S PLUMBING ENGINEER.
APPENDIX  B

Flood Insurance Rate Map
APPENDIX  C

Riverside County Flood Control & Water Conservation District Rational Method
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<td>50</td>
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<td>0.85</td>
<td>80</td>
<td>0.29</td>
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<tr>
<td>85</td>
<td>0.58</td>
<td>0.83</td>
<td>85</td>
<td>0.24</td>
</tr>
</tbody>
</table>

SLOPE = .550

Plate D-4 (15 of 16)
RUNOFF COEFFICIENT CURVES
SOIL GROUP - C
COVER TYPE - URBAN LANDSCAPING
AMC-II
(RUNOFF INDEX NUMBER 69)

LAND USE OR DEVELOPMENT TYPE
PERCENTAGE OF IMPERVIOUS COVER

RAINFALL INTENSITY IN INCHES PER HOUR

PLATE D-5.3
APPENDIX  D

Existing Storm Drain System Capacity
EXISTING 4" STORM DRAIN LINE CAPACITY
EXISTING 6" STORM DRAIN LINE CAPACITY
EXISTING 8" STORM DRAIN LINE CAPACITY
APPENDIX E

Photos
1. CLOGGED AREA DRAIN 1

2. CLOGGED AREA DRAIN 2

3. CRACKS IN CONCRETE NEAR AN AREA DRAIN

4. CRACKED AND CHIPPED CONCRETE NEAR AN AREA DRAIN
5. CONCRETE ON TOP OF STRUCTURAL DECK AND CONCRETE ON GRADE

6. PONDING NEAR RESTROOMS

7. UCR FINE ARTS ADMINISTRATION OFFICE
4 November 2020

RE:  UCR Fine Arts Decking Survey & Study Phase | Project No. 957449
Architectural Narrative

IN PROGRESS

Fine Arts Deck (Plaza Decking)

Chemical and mechanical stripping and preparation of existing finished concrete decking to receive new application of sloping waterproofing sealant system.

Refer to the report by Simpson Gumpertz & Heger for new waterproofing sealant system specification and narrative.

Refer to Civil diagrams (KPFF Consulting Engineers), Plumbing (P2S Engineering) and Structural (Nabih Youssef & Associates) typical details for new area drain scope. New area drain installation may occur at occupied basement level ceiling space.

- Collateral damage of ceiling tiles and adjacent finishes may require ceiling tile replacement. Adjacent surfaces may require patch and painting.
- Work in basement ceiling will occur in furnished spaces; this will likely require removal and reinstallation of such furniture and equipment at the immediate work site below new area drains.

Collateral Scope of Work in coordination with re-sloping and sealing of the Fine Arts Deck

Fine Arts Faculty Offices and Performing Arts Administration Offices will require refurbishment work to raise the existing finished floor, and creation of new exterior transition landing and sloped surfaces to meet up with the elevation of the new re-sloped Fine Arts Deck.

New Exterior Landing and Sloped Surfaces:
- Prepare decking to receive new pour of landings and sloped surfaces.
- Install waterproofing and flashing at juncture of landing with existing exterior walls.
- Patch exterior plaster along walls as required after installation of new landing and sloped surfaces.

Fine Arts Faculty Offices and Performing Arts Administration Offices:
• Remove existing storefront from Performing Arts Administration Offices.
• Remove existing interior and exterior non-storefront doors and doorframe assemblies and hardware; store for reinstallation.
• Remove floor level millwork and equipment; store for reinstallation.
• Remove all interior floor finishes and wall bases.
• Prepare existing subfloor to raise finish floor level approximately 1-1/2" higher.
• Reframe all interior and exterior non-storefront door openings to accommodate new finished floor elevation (approximately 1-1/2" higher than existing finished floor).
• Reinstall salvaged door assemblies and hardware. Reinstalled doors to achieve ADA compliant threshold transition down to exterior landing elevation, and to adjacent surfaces.
• Reinstallation of exterior doors to include new door pan flashing and waterproofing as needed.
• Reinstall all reusable salvaged weatherstripping and acoustical seals; install new replacement of above items as needed.
• Install new raised finish floor, e.g. plywood subfloor sheathing, pad and carpet like for like to match existing quality.
• Patch and paint all walls affected by door retrofit, and millwork removal and reinstallation scope. Assume repaint all interior wall surfaces, and repaint affected exterior walls and contiguous exterior walls as needed.
• Reinstall all stored millwork and equipment.
• Install new wall bases throughout suites.
• Install all four new level entry and exit landings, and sloped surface transitions to refurbished Fine Arts Decking.
• Install new storefront, door pan flashing, weatherstripping, finish hardware and complete assembly at new Performing Arts Administration Office Entry.
• Demount and reinstall any code signage to achieve ADA height compliance.
• Raise wall receptacles below minimum ADA height as needed.
LIGHT WEIGHT CONCRETE LANDING & RAMP

PROPOSED ARCHITECTURAL SOLUTION - RAISED FLOORS
12/08/2020
Annie Chu, FAIA, IIDA, NCARB, NCIDQ  
Principal  
Chu + Gooding Architects  
818 S. Broadway  
Suite 1001  
Los Angeles, CA 90014  

Project 208088 – Fine Arts Decking and Bridge Lab Analysis, UC Riverside, California  

Re: Laboratory Testing of Plaza and Level 2 Bridge Concrete Slabs  

Dear Ms. Chu:  

As requested, we performed laboratory testing of the concrete slabs at the plaza and Level 2 bridge to verify that our previous waterproofing repair recommendations can be installed over the existing concrete substrates and to determine any additional substrate preparation requirements. We obtained four total concrete core samples for testing: two from the plaza and two from the Level 2 bridge. We performed the following laboratory testing:  

- Full petrographic examinations in accordance with the applicable procedures of ASTM C856 – Standard Practice for Petrographic Examination of Hardened Concrete.  

- Inorganic chemical testing, consisting of measurements of the water-soluble concentrations of sodium, potassium, chloride, and sulfate at two sampling depths (0 mm to 3 mm; 3 mm to 6 mm) in each core.  

- Organic chemical testing, consisting of solvent extraction and Fourier Transform Infrared Spectrometry (FTIR) at two sampling depths (0 mm to 3 mm; 3 mm to 6 mm) in each core.  

This letter summarizes our laboratory testing program and our findings. It also provides a discussion of the results and presents our conclusions and recommendations.  

1. LABORATORY TESTING  

The attributes of the core samples prior to testing are summarized in Table 1. Overall views of the cores samples are depicted in Photos 1 through 8.
Table 1 – Sample Information

<table>
<thead>
<tr>
<th>Core ID</th>
<th>Location</th>
<th>Nominal Diameter (in.)</th>
<th>Nominal Length (in.)</th>
<th>Notes</th>
<th>Photos</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>North Central Plaza</td>
<td>3-3/4</td>
<td>3-5/8</td>
<td>Partial depth core. The concrete is covered by coatings that consist of three distinct layers, with a nominal total thickness of 115 mils. A delamination with a maximum thickness of 1/4 in. extends obliquely from the edge of the core toward the concrete surface.</td>
<td>1, 2</td>
</tr>
<tr>
<td>C2</td>
<td>Central Plaza near planter</td>
<td>3-3/4</td>
<td>4-3/8</td>
<td>Partial depth core. The exterior exhibits a slightly ground concrete surface.</td>
<td>3, 4</td>
</tr>
<tr>
<td>C3</td>
<td>North portion of Level 2 bridge</td>
<td>3-3/4</td>
<td>4</td>
<td>Partial depth core. The concrete is covered by a coating with embedded, exposed aggregate, with a nominal thickness of 35 mils.</td>
<td>5, 6</td>
</tr>
<tr>
<td>C4</td>
<td>East end of Level 2 bridge near brick</td>
<td>3-3/4</td>
<td>3-3/4</td>
<td>Partial depth core. The concrete is covered by a coating with embedded, exposed aggregate, with a nominal thickness of 35 mils.</td>
<td>7, 8</td>
</tr>
</tbody>
</table>

1.1 Petrography

We cut a nominal 1 in. thick longitudinal section from the center of each core. We ground and lapped the resulting cut faces to create roughly polished surfaces for our comparative microscopic examinations (Photo 9). We examined the polished sections with the aid of a reflected-light stereomicroscope at magnifications of 7X to 115X.

During petrographic examinations, we observed that the cores represent similar mixes and exhibit the following features:

- Core C1 and Core C2 exhibit a relatively uniform medium gray paste color. In comparison, Core C3 and Core C4 exhibit a slightly lighter and more brown paste color (Photo 9).

- In all of the cores, the concrete contains 3/8 in. nominal maximum-sized particles of coarse aggregate.

- In all of the cores, the coarse aggregate is composed primarily of expanded shale lightweight aggregate.

- All of the cores exhibit a relatively uniform distribution of aggregate particles (Photo 9).

- In all of the cores, the fine aggregate consists of natural sand with subrounded to subangular particles and is composed of quartz, feldspar and mica, as well as rock fragments of granite, schist, and quartzite.
The cement paste is composed of portland cement that exhibits normal to advanced hydration. Particularly in Core C3 and C4, we commonly observed relict (completely hydrated) particles of portland cement. We did not observe additional cementitious or pozzolanic materials, such as slag or fly ash, in the concrete.

Based on the color, texture, and overall composition of the paste structure, we estimate that the concrete in Core C1 and Core C2 generally exhibits a moderate water-to-cement (w/cm) ratio that we estimate to be in the range of 0.40 to 0.50, whereas the concrete in Core C3 and Core C4 generally exhibits a moderate to moderately high w/cm ratio that we estimate to be in the range of 0.45 to 0.55. All of the cores exhibit variable levels of paste porosity throughout the concrete, which is evidence of uneven distributions of mix water, likely due to uneven mixing in combination with excess water contributed by the lightweight aggregate.

The cores do not contain intentional air entrainment. The cores contain a low amount of entrapped air; we estimate that the total air content of each core is in the range of 1% to 2%.

Each core exhibits a near-surface zone of fully carbonated paste to a nominal depth of 1/8 in. We also observed a mottled distribution of partially carbonated paste throughout the full depth of each ultrathin section (1-7/8 in.).

In our examination of the ultrathin sections, we observed several indicators of water intrusion, including extensive deposits of secondary ettringite in air voids, partial carbonation of the paste structure, and occasional deposits of secondary calcite.

The concrete generally exhibits a moderate to well-developed paste-to-aggregate (P/A) bond strength. On freshly fractured surfaces, most of the coarse aggregate particles are broken.

In all of the cores, we observed near-surface microcracking (less than 1 mil in width) in the concrete, which fractures both aggregate particles and the surrounding paste structure (Photos 10 to 14). Much of this microcracking is oriented roughly parallel to the exterior surface, although we also observed branching cracks extending obliquely through the paste structure, particularly in Core C1 (Photos 10 and 11). A few of these microcracks are partially filled with calcium hydroxide. The near-surface microcracking is more extensive in Core C1 in comparison to the other cores. In Core C1, the near-surface microcracking occurs in the uppermost 1/8 in. of the concrete, whereas in Core C2 the microcracking is limited to the uppermost 6 mils to 10 mils, and in Core C3 and Core C4 the near-surface microcracking occurs in the uppermost 1/64 in. to 1/32 in. of the concrete. We infer that this microcracking represents bruising of the concrete surface resulting from surface preparation of the concrete prior to application of the coatings.

In all of the cores, we observed microcracking (less than 1 mil in width) extending perpendicularly from the concrete surface, typically to depths of 3/16 in. to 1/2 in. from the concrete surface. These microcracks generally tend to follow the edges of aggregate particles and only occasionally fracture aggregate particles. Most of these microcracks taper slightly in width with increasing depth. We infer that these microcracks are likely drying shrinkage cracks.
• There is no evidence of long-term distress mechanisms, such as alkali-silica reactivity (ASR), delayed ettringite formation (DEF), or external sulfate attack, in the core samples.

• Some of the rock types that occur as particles in the fine aggregate are known to be susceptible to ASR, particularly the quartzite and schist, due to the presence of strained quartz. Although we did not observe any evidence of ASR in the concrete, these fine aggregate particles could be reactive at some point in the future depending on the conditions of the service environment.

1.2 Inorganic Chemical Testing

We submitted samples of powdered concrete from two sampling depths (0 mm to 3 mm; 3 mm to 6 mm) in each core to Luvak, Inc. for determination of the concentration of the following chemical species: sodium (Na), potassium (K), chloride (Cl), and sulfate (SO₄). The concentrations for all of these species were determined using water-soluble extraction, which is assumed to provide a measurement of only the readily soluble chemical elements that can be leached from a sample, such as salts and weakly bonded ions. The concentrations of the cationic species (Na and K) were measured in accordance with ASTM E1097 – Standard Guide for Determination of Various Elements by Direct Current Plasma Atomic Emission Spectrometry. The concentrations of the anionic species (Cl and SO₄) were measured in accordance with ASTM D4327 – Standard Test Method for Anions in Water by Suppressed Ion Chromatography. The full Luvak report is provided in Attachment A. The results of the chemical testing are summarized in Table 2.

Table 2 – Inorganic Chemistry Results

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Depth (mm)</th>
<th>Na</th>
<th>K</th>
<th>Cl</th>
<th>SO₄</th>
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<tr>
<td>C1</td>
<td>0 – 3</td>
<td>936</td>
<td>1133</td>
<td>34</td>
<td>3457</td>
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<tr>
<td></td>
<td>3 – 6</td>
<td>659</td>
<td>846</td>
<td>36</td>
<td>2551</td>
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<tr>
<td>C2</td>
<td>0 – 3</td>
<td>2269</td>
<td>962</td>
<td>44</td>
<td>5852</td>
</tr>
<tr>
<td></td>
<td>3 – 6</td>
<td>3289</td>
<td>1468</td>
<td>41</td>
<td>3442</td>
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<tr>
<td>C3</td>
<td>0 – 3</td>
<td>1444</td>
<td>1353</td>
<td>32</td>
<td>3100</td>
</tr>
<tr>
<td></td>
<td>3 – 6</td>
<td>702</td>
<td>807</td>
<td>24</td>
<td>1586</td>
</tr>
<tr>
<td>C4</td>
<td>0 – 3</td>
<td>808</td>
<td>1233</td>
<td>63</td>
<td>2020</td>
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<tr>
<td></td>
<td>3 – 6</td>
<td>461</td>
<td>940</td>
<td>44</td>
<td>2095</td>
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</table>

All Concentration Data in ppm.

1.3 Organic Chemical Testing

We performed acetone extractions on 1 gram aliquots of the powdered concrete from two sampling depths (0 mm to 3 mm; 3 mm to 6 mm) in each core. We weighed the resulting extracted material. We also analyzed the resulting residue using a Perkin Elmer FTIR.

The FTIR analyses indicated that the extracted materials are mixtures of organic compounds and fine-grained silicate and carbonate particles. The presence of the fine-grained silicate and carbonate particles partially masked the region of the infrared spectra that might be diagnostic for specific organic compounds, prohibiting more precise identification of the organic compounds. The results for quantitative solvent extractions are summarized in Table 3.
Table 3 – Organic Chemistry Results

<table>
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<th>Sample ID</th>
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<td></td>
<td>3 – 6</td>
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</tr>
<tr>
<td>C2</td>
<td>0 – 3</td>
<td>0</td>
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<tr>
<td></td>
<td>3 – 6</td>
<td>10</td>
</tr>
<tr>
<td>C3</td>
<td>0 – 3</td>
<td>50</td>
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<td>3 – 6</td>
<td>20</td>
</tr>
<tr>
<td>C4</td>
<td>0 – 3</td>
<td>0</td>
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<tr>
<td></td>
<td>3 – 6</td>
<td>40</td>
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</tbody>
</table>

(All Concentration Data in ppm)

2. DISCUSSION

Based on the cores, the concrete substrate is generally in good physical condition at the plaza and Level 2 bridge. While there is some microcracking at the concrete surface, it is likely a result of past concrete surface preparation, such as bead blasting to roughen the surface for adhesion of the coatings.

Carbonation of the concrete is limited to a depth of 1/8 in., which does not pose a risk of corrosion to the slab reinforcement. The concrete slab reinforcement has 3/4 in. concrete cover per the original structural drawing general notes on Sheet 1.000.

The concrete cores did not exhibit any signs of ASR. While the aggregate types are susceptible to ASR and there is evidence of previous water infiltration, no ASR is evident. Thus, the absence of ASR indicates that the alkali salts also necessary to cause ASR are likely not present.

The results of the organic chemistry testing could not identify specific near-surface organic contaminants due to the interfering presence of other particles. Further testing may be able to better identify these contaminants; however, the overall concentrations levels are sufficiently low that it is unlikely there is enough organic contamination to affect the application of waterproofing coatings.

The results of the inorganic chemistry testing indicate near-surface soluble salt content in levels that some laboratories and waterproof coating manufacturers consider sufficiently high to interfere with waterproof coating bond integrity. The build-up may be due to vapor movement through the slab from original water in the concrete mix or moisture infiltration at failed coatings or additives in the original concrete mix. In addition, at Core C-2, which occurs at failed Plaza coating, the levels of sodium and potassium increase with depth. This is likely due to the failed waterproof coating and exposure to additional moisture at this location. There is also some concern that the contamination extends deeper than the 3 to 6 mm tested. The water-soluble salts above, in the presence of moisture vapor from within or underneath the slab, can be detrimental to topically applied vapor barriers and coatings. In addition, the dissolution of near-surface salts can lead to osmotic blistering of the coatings. Although only limited cores were taken, a conservative assumption is that similar conditions occur at coated and uncoated concrete throughout.

For the Plaza repairs, we have reviewed these conditions with a PMMA waterproofing manufacturer, Siplast, and two epoxy-primer manufacturers, Aquafin and AC Tech, who indicated that the contaminant levels at Cores C-1 and C-2 would require additional surface preparation.
than what was indicated in our previous report, and confirmed our previous recommendation for an epoxy-based primer/moisture vapor mitigation coating. Assuming the results of Cores C-1 and C-2 are consistent throughout the Plaza, the coating and primer manufacturers recommend the existing slab be ground down to remove some contamination and then a “concrete isolation screed” be applied, which generally includes a specialized cementitious coating to isolate the salts below from the coatings above. We have limited experience with concrete isolation screeds and have not been able to obtain information from the manufacturers on their local application history at the time of this letter. Documentation of previous projects utilizing the same assembly should be required by the project specifications to be submitted to the design team for review and approval.

For the Bridge repairs, we have reviewed these conditions with a polyurethane traffic coating manufacturer, NeoGard, who indicated that the contaminant levels at Cores C-3 and C-4 will require additional surface preparation than what was indicated in our previous report, generally including bead blasting to remove surface contamination, and recommended using an epoxy-based primer/moisture vapor mitigation coating.

3. CONCLUSIONS AND RECOMMENDATIONS

The following sections present our conclusions and recommendations for substrate surface preparation. Refer to our report dated 28 September 2020 for additional recommendations.

Central Plaza

The concrete slab is in good condition to accept a new PMMA coating except for the high soluble salt levels, which may extend deeper into the slab and increase in concentration. Although limited concrete cores were analyzed, it is likely that this condition will be similar at other similar conditions. We recommend assuming these conditions are consistent throughout as the basis of design for repairs. Additional concrete core analysis should be performed as part of the construction process, generally as required by the coating manufacturer, which will confirm the extent of the remediations.

We continue to recommend a PMMA waterproof coating at the plaza. We recommend the following, in addition to our previous report recommendations:

- Confirm with a structural engineer that the top surface of the concrete slab can be removed and replaced as outlined below. Our recommendations assume this is structurally acceptable.
- Remove minimum 3/8 in. of concrete surface and prepare the surface to International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) 5 – 7.
- High-pressure water blast the prepared concrete surface.
- Install a minimum 3/8 in. thick concrete isolation screed, such as Aquafin Mortar-Screed CI.
- Provide positive slope to drains, as recommended in our previous report. The concrete isolation screed can be used to provide slope to drain; the manufacturer’s sloping mortar, such as Aquafin Mortar-Quick Patch, can be used for feather edges.
• Provide waterproof coating manufacturer’s recommended epoxy-based vapor mitigation primer, such as Aquafin SG-3 (consistent with previous recommendations from report dated 28 September 2020). Assume a two-coat application of primer.

**Level 2 Bridge**

The concrete slab Bridge is in good condition to accept a new traffic coating except for the high soluble salt levels. However, as the contamination levels are less than those at the Plaza and do not appear to increase with depth, substantial surface removal is not necessary.

We continue to recommend a polyurethane traffic coating at the Level 2 bridge. We recommend the following, in addition to our previous report recommendations:

• Remove the existing traffic coating and surface salt contaminants by bead blasting and prepare surface to ICRI CSP 3.

• High-pressure water blast the prepared concrete surface.

• Provide traffic coating manufacturer’s recommended an epoxy-based moisture vapor mitigation primer, such as Neogard 70700/70/701 Moisture Mitigating Primer.

Let us know if you have any questions or would like to discuss our conclusions and recommendations further.

Sincerely yours,

Amy L. Hackney, P.E.
Senior Principal

Ryan Upp, AIA
Senior Project Manager

Encls.
cc: Jacqueline Wei, Chu + Gooding Architects
Photo 1

Exterior Face of Core C1

The red arrows mark cracks in the surface coatings.

Photo 2

Side View of Core C1

The yellow arrow marks the surface coatings.
Photo 3
Exterior face of Core C2 exhibits a slightly ground concrete surface.

Photo 4
Side View of Core C2
Photo 5

Exterior face of Core C3 exhibits a polymeric coating with embedded aggregate.

Photo 6

Side View of Core C3

The yellow arrow marks the surface coatings.
Photo 7
Exterior face of Core C4 exhibits a polymeric coating with embedded aggregate.

Photo 8
Side View of Core C4
The yellow arrow marks the surface coatings.
Polished sections of Cores C1, C2, C3, and C4 (from left to right). Each sample is oriented with the exterior surface toward the top. Note the slightly lighter and more brown paste color of Cores C3 and C4 in comparison to Cores C1 and C2.
Photo 10
Photomicrograph of the ultrathin section of Core C1, depicting an overview of the near-surface microcracking (red arrows). The surface coating is at the top of the image. The green arrow marks a lightweight aggregate particle.

(Plane polarized light)

Photo 11
Photomicrograph of the ultrathin section of Core C1, depicting a detailed view of near-surface microcracking (red arrows). The surface coating is at the top of the image. The green arrows mark lightweight aggregate particles.

(Plane polarized light)
Photo 12
Photomicrograph of the ultrathin section of Core C2, depicting a detailed view of near-surface microcracking (red arrows). The ground concrete surface is at the top of the image.

(Plane polarized light)

Photo 13
Photomicrograph of the ultrathin section of Core C3, depicting a detailed view of near-surface microcracking (red arrows). The surface coating is at the top of the image.

(Plane polarized light)
Photo 14

Photomicrograph of the ultrathin section of Core C4, depicting a detailed view of near-surface microcracking (red arrows). The surface coating is at the top of the image.

(Plane polarized light)
Attachment A
Luvak Inc.
722 Main Street
Boylston, MA 01505
Phone 508-869-6401
www.luvak.com

Requested By:
Simpson Gumpertz & Heger Inc.
41 Seyon Street
Building #1, Suite 500
Waltham, MA 02453

Invoice Number: 95875
Customer Purchase Order No: Verbal
Project No: 208088
Project: Exterior Remediation Design

Description: Eight powdered concrete samples were analyzed as listed below.

Results:

<table>
<thead>
<tr>
<th>Sample Identification</th>
<th>C1 0-3</th>
<th>C1 3-6</th>
<th>C2 0-3</th>
<th>C2 3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Extractable</td>
<td>ppm</td>
<td>ppm</td>
<td>ppm</td>
<td>ppm</td>
</tr>
<tr>
<td>Sodium</td>
<td>936</td>
<td>659</td>
<td>2269</td>
<td>3289</td>
</tr>
<tr>
<td>Potassium</td>
<td>1133</td>
<td>846</td>
<td>962</td>
<td>1468</td>
</tr>
<tr>
<td>Chloride</td>
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<td>36</td>
<td>44</td>
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<tr>
<td>Sulfate</td>
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<td>5852</td>
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<table>
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<tr>
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<th>C3 3-6</th>
<th>C4 0-3</th>
<th>C4 3-6</th>
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<td>Water Extractable</td>
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<td>ppm</td>
<td>ppm</td>
<td>ppm</td>
</tr>
<tr>
<td>Sodium</td>
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<td>808</td>
<td>461</td>
</tr>
<tr>
<td>Potassium</td>
<td>1353</td>
<td>807</td>
<td>1233</td>
<td>940</td>
</tr>
<tr>
<td>Chloride</td>
<td>32</td>
<td>24</td>
<td>63</td>
<td>44</td>
</tr>
<tr>
<td>Sulfate</td>
<td>3100</td>
<td>1586</td>
<td>2020</td>
<td>2095</td>
</tr>
</tbody>
</table>

Methods: Chloride & Sulfate – Ion chromatography – ASTM D 4327-17
All others - Direct current plasma emission spectroscopy - ASTM E 1097-12

Luvak Inc. utilizes the ASTM E29 rounding method based upon simple acceptance unless specification or customer designates otherwise.

The analytical report shall not be reproduced, except in full, without the written approval of the laboratory. The recording of false, fictitious, or fraudulent statements or entries on the analytical report may be punished as a felony under federal law.

Luvak Inc.

By Derek Langlois
Derek Langlois
Quality Manager
November 17, 2020

Jacqueline Wei
Chu+Gooding Architects
818 South Broadway, Suite 1001
Los Angeles, CA 90014

Re:  UCR Fine Arts First Floor Evaluation – WO # 20204.00

Dear Ms. Wei:

The purpose of this letter is to present results of our evaluation of a portion of the First Floor framing at the Fine Arts Building to determine the capacity of the existing framing to support additional floor finish loads that have been proposed to facilitate mitigation of unfavorable drainage conditions at the exterior deck.

The UCR Fine Arts Building is a two-story building with a single level basement which extends beyond the footprint of the building above. The First Floor structure consists on concrete-filled metal deck spanning between steel beams which are supported by steel columns.

As shown in exhibit EX-5 in the UCR Fine Arts Drainage Study by KPFF dated October 14, 2020, regrading is proposed over two small portions of the exterior structural deck with a total area of approximately 200 square feet. The existing grade in these areas is proposed to be raised by a maximum of 1½” using a cementitious compound such as Sikatop 122 mortar in order to increase the drainage slope between exterior doors and existing floor drains. A portion of EX-5 with the proposed areas to be raised highlighted in red is shown in Figure 1.

Figure 1
In addition, the interior floor level of two office suites have been proposed to be raised by 1½" to match the raised exterior grade at the doors. These office suites have a total area of approximately 4,700 square feet and are shown in Figure 2. Initially, it was proposed to add concrete topping to raise the floor elevation.

A RAM analysis model was developed to evaluate the capacity of the floor framing to support the additional weight of the mortar and concrete. A superimposed load of 20 psf (equivalent to 1½" of normal weight concrete) was added to the existing loads to represent the additional mortar and concrete in the shaded areas shown in Figures 1 and 2. The results of the analysis indicate that the existing floor framing can support the additional loads at the exterior areas and at the office suite to the north. However, several beams were found to be overstressed under the additional load at the office suite to the south. These beams, shown highlighted in Figure 3,
could be strengthened using added plates or WT's welded to the bottom flange of the beam. Alternatively, the floor could be raised using plywood in lieu of concrete. The weight of two layers of ¾" plywood is approximately 4 psf. Reanalysis of the floor framing under this additional load found that some beams would still be slightly overstressed. However, the added load increases the demand/capacity ratio by less than 5 percent and therefore the beams need not be strengthened per 2019 CEBC section 502.4.

**Figure 3**

HIGHLIGHTED BEAMS REQUIRE STRENGTHENING DUE TO ADDED CONCRETE
Please contact me if you have any questions.

Sincerely,

NABIH YOUSSEF & ASSOCIATES

Jim Zeiner, S.E.
Vice President
12" X 12" OPENING

1/2" HILTI KB-TZ W/3 1/4" EMBEDMENT AT EA. FLUTE

L2X2X1/4 X 7'-4" LONG EACH SIDE OF OPENING

NOTES:
1. WHERE ONE EDGE OF OPENNING IS WITHIN 1'-0" OF BEAM CENTERLINE, ANGLE MAY BE OMITTED ON THAT SIDE OF OPENING.
2. WHERE ANGLE CANNOT EXTEND THREE DECK FLUTES PAST OPENING DUE TO ADJACENT GIRDER, CONNECT ANGLE TO GIRDER PER DETAIL B.

A  NEW DECK OPENING AT EXPANDED DRAINS

B  NEW DECK OPENING ADJACENT TO GIRDER
Plumbing

Based on the report from the UCR Fine Arts Drainage Study, there are (8) undersized, 3” and 4” diameter area drains currently installed in the structural deck over the lower level of the Fine Arts Seismic Facility (FASF), and (1) undersized 3” or 4” area drain located in the slab on grade. The (8) area drains in the structural deck are connected via 4” and 6” storm drain piping installed above the ceiling space of the lower level of the FASF. The exposed storm drain piping is routed outside the building envelope to a larger, in-grade storm drain.

P2S recommends the following upgrades to the storm drain system:

- Remove and replace these undersized area drains with new 12”x12” storm drain catch basins per original civil as-built plans. This will require sawcutting the structural deck (concrete slab over steel floor deck) and providing new horizontal structural members to support the larger catch basins.

- At each location where the area drains are removed, storm drain piping will need to be reworked to connect the new 12”x12” storm drain catch basins to the existing storm drain piping. The (8) locations in the structural deck are connected via exposed piping supported from above; the (1) location in the slab on grade is connected to direct-buried 4” storm drain piping. Refer to details 1 and 2.

- Provide new area drain in front of elevator and route new 3” drainage piping to adjacent 6” storm drain main.
Please contact me if you have any questions or require further clarification.

Marco Cabibbo, P.E.
Project Manager

MC/cp
Plumbing Narrative_draft final
CONCEPT / COST MODEL
CONSTRUCTION ESTIMATE

for

Fine Arts Decking Survey and Study
University of California Riverside

Prepared for:
Chu + Gooding Architects
818 South Broadway, Suite 1001
Los Angeles, CA 90014

December 15, 2020

# 20-2927
Concept Cost Model Construction Estimate

Basis of Construction Estimate

The estimate is based on a survey and study phase report dated November 2020. Estimated unit costs include average union labor rates with prevailing wages and competitive bid conditions. Competitive bid conditions generally occur when bids are received from a minimum of three general contractors and three subcontractors for each trade. The estimate includes allowances and assumptions for materials, building systems, specifications and construction schedule, these assumptions should be confirmed at the next design stage and prior to completion of bid documents. The estimate includes general contractor markups for general conditions, general requirements, bonds, insurances, overhead, profit, fee and estimate contingency. Project soft costs and cost escalation beyond date of estimate are not included.

The estimated construction cost represents our best judgment as a professional consultant familiar with the construction industry. We have no control over the cost or supply of labor, materials and equipment, a contractor’s methods of determining bid prices and market conditions. We cannot and do not warranty or represent that bids or negotiated prices will not vary from the estimated construction cost.

Construction Estimate Exclusions

Professional design, testing, inspection and management fees.
Fire and all risk insurance.
Legal and financing costs.
Building permits and fees.
Construction and owners project contingency.
Independent commissioning.
Off-site improvements.
Cost escalation beyond December 2020, 5% per year to mid point of construction recommended.
Title 24 upgrades.
### Fine Arts Decking Survey and Study
#### University of California Riverside

<table>
<thead>
<tr>
<th>Concept Cost Model Construction Estimate</th>
<th>Direct Cost</th>
<th>GC Markups</th>
<th>Phasing &amp; Temporary Construction</th>
<th>Estimate Contingency</th>
<th>Total Construction Cost 12/2020</th>
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</thead>
<tbody>
<tr>
<td>Fine Arts Deck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deck repairs</td>
<td>$583,553</td>
<td>$132,758</td>
<td>$71,631</td>
<td>$118,191</td>
<td>$906,133</td>
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<tr>
<td>Collateral work for re-sloping and sealing Fine Arts deck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New exterior landing and sloped surfaces</td>
<td>$22,053</td>
<td>$5,017</td>
<td>$2,707</td>
<td>$4,467</td>
<td>$34,243</td>
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<tr>
<td>Fine arts faculty offices / performing arts administration offices</td>
<td>$469,709</td>
<td>$106,859</td>
<td>$57,657</td>
<td>$95,134</td>
<td>$729,358</td>
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<tr>
<td>Bridge Deck</td>
<td>$65,112</td>
<td>$14,813</td>
<td>$7,992</td>
<td>$13,188</td>
<td>$101,105</td>
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<tr>
<td>Performance Lab</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Exterior wall elastomeric coating</td>
<td>$258,647</td>
<td>$58,842</td>
<td>$31,749</td>
<td>$52,386</td>
<td>$401,623</td>
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<tr>
<td>Roofing</td>
<td>$219,834</td>
<td>$50,012</td>
<td>$26,985</td>
<td>$44,525</td>
<td>$341,355</td>
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**TOTAL CONSTRUCTION 12/2020**

<table>
<thead>
<tr>
<th>Direct Cost</th>
<th>GC Markups</th>
<th>Phasing &amp; Temporary Construction</th>
<th>Estimate Contingency</th>
<th>Total Construction Cost 12/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,618,907</td>
<td>$368,301</td>
<td>$198,721</td>
<td>$327,889</td>
<td>$2,513,818</td>
</tr>
</tbody>
</table>

**Note:**

Cost escalation beyond December 2020 is excluded, 5% per year to mid point of construction recommended.
### Fine Arts Deck

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deck repairs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strip and prepare existing deck</td>
<td>14,900</td>
<td>SF</td>
<td>3.78</td>
</tr>
<tr>
<td>Repair concrete surface and cracks</td>
<td>14,900</td>
<td>SF</td>
<td>5.02</td>
</tr>
<tr>
<td>Raise deck elevation a maximum of 1 1/2 &quot; inches with cementitious compound</td>
<td>200</td>
<td>SF</td>
<td>14.13</td>
</tr>
<tr>
<td>New waterproof deck system</td>
<td>14,900</td>
<td>SF</td>
<td>17.03</td>
</tr>
<tr>
<td>Jet cleaning storm drain system</td>
<td>1</td>
<td>LS</td>
<td>5,175.00</td>
</tr>
<tr>
<td>Replace existing 8&quot; area drains with 12&quot; x 12&quot; catch basins</td>
<td>9</td>
<td>EA</td>
<td>1,962.36</td>
</tr>
<tr>
<td>Rework piping connection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposed piping from above</td>
<td>8</td>
<td>EA</td>
<td>895.28</td>
</tr>
<tr>
<td>Below slab on grade</td>
<td>1</td>
<td>EA</td>
<td>4,657.50</td>
</tr>
<tr>
<td>New area drain and piping at elevator</td>
<td>1</td>
<td>EA</td>
<td>6,624.00</td>
</tr>
<tr>
<td>Adjust to grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catch basin</td>
<td>1</td>
<td>EA</td>
<td>470.93</td>
</tr>
<tr>
<td>Manhole</td>
<td>2</td>
<td>EA</td>
<td>874.58</td>
</tr>
<tr>
<td>Clean out</td>
<td>1</td>
<td>EA</td>
<td>470.93</td>
</tr>
<tr>
<td>Ceiling tile and finish repairs</td>
<td>8,900</td>
<td>SF</td>
<td>8.28</td>
</tr>
<tr>
<td>Protect existing finishes and building systems</td>
<td>8,900</td>
<td>SF</td>
<td>5.18</td>
</tr>
<tr>
<td>Remove and replace interior furnishings</td>
<td>8,900</td>
<td>SF</td>
<td>3.62</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$583,553</td>
</tr>
</tbody>
</table>

### Collateral work for re-sloping and sealing Fine Arts deck

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>New exterior landing and sloped surfaces</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepare decking to receive new pour of landings and sloped surfaces.</td>
<td>260</td>
<td>SF</td>
<td>8.80</td>
</tr>
<tr>
<td>Install waterproofing and flashing at juncture of landing with existing exterior walls.</td>
<td>260</td>
<td>SF</td>
<td>29.45</td>
</tr>
<tr>
<td>Patch exterior plaster as required after installation of new landing and sloped surfaces.</td>
<td>260</td>
<td>SF</td>
<td>46.58</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$22,053</td>
</tr>
</tbody>
</table>

### Fine arts faculty offices / performing arts administration offices

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove existing storefront from performing arts administration offices.</td>
<td>4,850</td>
<td>SF</td>
<td>2.35</td>
</tr>
<tr>
<td>Remove existing interior and exterior non-storefront doors and door frame assemblies and hardware; store for reinstallation.</td>
<td>4,850</td>
<td>SF</td>
<td>2.50</td>
</tr>
</tbody>
</table>
Fine Arts Deck

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collateral work for re-sloping and sealing Fine Arts deck</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine arts faculty offices and performing arts administration offices</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove floor level millwork and equipment; store for reinstallation.</td>
<td>4,850</td>
<td>SF</td>
<td>5.18</td>
</tr>
<tr>
<td>Remove all interior floor finishes and wall bases.</td>
<td>4,850</td>
<td>SF</td>
<td>3.88</td>
</tr>
<tr>
<td>Prepare existing subfloor to raise finish floor level approximately 1-1/2” higher with</td>
<td>4,850</td>
<td>SF</td>
<td>10.97</td>
</tr>
<tr>
<td>two layers of plywood.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reframe all interior and exterior non-storefront door openings to accommodate new</td>
<td>4,850</td>
<td>SF</td>
<td>22.41</td>
</tr>
<tr>
<td>finished floor elevation (approximately 1-1/2” higher than existing finished floor).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reinstall salvaged door assemblies and hardware.</td>
<td>4,850</td>
<td>SF</td>
<td>3.75</td>
</tr>
<tr>
<td>Reinstallation of exterior doors to include new door pan flashing and waterproofing.</td>
<td>4,850</td>
<td>SF</td>
<td>4.27</td>
</tr>
<tr>
<td>Reinstall all reusable salvaged weatherstripping and acoustical seals; install new</td>
<td>4,850</td>
<td>SF</td>
<td>3.11</td>
</tr>
<tr>
<td>replacement of above items as needed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Install new raised finish floor</td>
<td>4,850</td>
<td>SF</td>
<td>9.83</td>
</tr>
<tr>
<td>Patch and paint all walls interior and exterior</td>
<td>4,850</td>
<td>SF</td>
<td>6.21</td>
</tr>
<tr>
<td>Reinstall all stored millwork and equipment.</td>
<td>4,850</td>
<td>SF</td>
<td>7.76</td>
</tr>
<tr>
<td>Install new wall bases throughout suites.</td>
<td>4,850</td>
<td>SF</td>
<td>1.45</td>
</tr>
<tr>
<td>Demount and reinstall code signage to achieve ADA height compliance.</td>
<td>4,850</td>
<td>SF</td>
<td>2.85</td>
</tr>
<tr>
<td>Raise wall receptacles below minimum ADA height as needed</td>
<td>4,850</td>
<td>SF</td>
<td>10.35</td>
</tr>
</tbody>
</table>

$469,709
## Bridge Deck

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strip and prepare existing deck</td>
<td>1,800 SF</td>
<td>3.78</td>
<td>6,800</td>
</tr>
<tr>
<td>Repair concrete surface</td>
<td>1,800 SF</td>
<td>5.02</td>
<td>9,036</td>
</tr>
<tr>
<td>New waterproof deck system</td>
<td>1,800 SF</td>
<td>17.03</td>
<td>30,646</td>
</tr>
<tr>
<td>Soffit repairs and refinishing</td>
<td>1,800 SF</td>
<td>10.35</td>
<td>18,630</td>
</tr>
</tbody>
</table>

$65,112
# Fine Arts Decking Survey and Study
## University of California Riverside
### # 20-2927
#### 15-Dec-20

## Performance Lab

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exterior wall elastomeric coating</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepare exterior wall for new elastomeric coating</td>
<td>10,500</td>
<td>SF 4.81</td>
<td>50,534</td>
</tr>
<tr>
<td>Remove loose and debonded plaster, repair plaster</td>
<td>10,500</td>
<td>SF 2.07</td>
<td>21,735</td>
</tr>
<tr>
<td>New elastomeric coating</td>
<td>10,500</td>
<td>SF 13.09</td>
<td>137,474</td>
</tr>
<tr>
<td>Scaffolding</td>
<td>10,500</td>
<td>SF 4.66</td>
<td>48,904</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>258,647</td>
</tr>
<tr>
<td><strong>Roofing</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove and replace roofing assembly and flashings</td>
<td>5,900</td>
<td>SF 37.26</td>
<td>219,834</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>219,834</td>
</tr>
</tbody>
</table>
PRODUCT DESCRIPTION

SikaTop®-122 Plus is a two-component, polymer-modified, portland cement based, fast-setting, trowel-grade mortar. It is a high-performance repair mortar for horizontal and vertical surfaces and offers the additional benefit of Sika FerroGard® 901, a penetrating corrosion inhibitor.

USES

- On grade, above and below grade on concrete and mortar.
- On horizontal surfaces.
- As a structural repair material for parking structures, industrial plants, walkways, bridges, tunnels, dams, ramps, floods, etc.
- To level concrete surfaces.
- As an overlay system for topping/resurfacing concrete.

CHARACTERISTICS / ADVANTAGES

- Extremely low shrinkage proven by four industry standard test methods
- High compressive and flexural strengths
- High abrasion resistance
- Increased freeze/thaw durability and resistance to deicing salts
- Compatible with coefficient of thermal expansion of concrete - Passes ASTM C-884
- Increased density - improved carbon dioxide resistance (carbonation) without adversely affecting water vapor transmission (not a vapor barrier)
- Sika FerroGard® 901, a penetrating corrosion inhibitor - reduces corrosion even in the adjacent concrete

APPROVALS / STANDARDS

- USDA certifiable for the food industry
- ANSI/NSF Standard 61 potable water compliant
- Tested per ICRI guideline for inorganic repair material data sheet protocol guideline n°320.3R

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Component A</th>
<th>Component B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 gal (3.78 L) jug</td>
<td>61.5 lb (28.9 kg) bag</td>
</tr>
<tr>
<td>Appearance / Color</td>
<td>Concrete gray when mixed</td>
<td></td>
</tr>
<tr>
<td>Shelf Life</td>
<td>12 months from date of production if stored properly in original, unopened and undamaged sealed packaging</td>
<td></td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Store dry at 40–95 °F (4–35 °C)</td>
<td></td>
</tr>
</tbody>
</table>

Protect Component A from freezing. If frozen, discard.
Protect Component B from moisture. If damp, discard.

## TECHNICAL INFORMATION

### Density

<table>
<thead>
<tr>
<th></th>
<th>136 lbs/ft³ (2.18 kg/L)</th>
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</thead>
</table>

### Compressive Strength

<table>
<thead>
<tr>
<th></th>
<th>1 day</th>
<th>2,500 psi (17.2 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7 days</td>
<td>5,300 psi (36.5 MPa)</td>
</tr>
<tr>
<td></td>
<td>28 days</td>
<td>7,000 psi (48.3 MPa)</td>
</tr>
</tbody>
</table>

### Modulus of Elasticity in Compression

|       | 28 days | 3.0x10⁶ psi |

### Flexural Strength

|       | 28 days | 1,500 psi (10.3 MPa) |

### Splitting Tensile Strength

|       | 28 days | 500 psi (3.4 MPa) |

### Tensile Strength

|       | 28 days | 2,000 psi (13.8 MPa) |

### Pull-Out Resistance

<table>
<thead>
<tr>
<th></th>
<th>7 days</th>
<th>&gt;300 psi (2.1 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28 days</td>
<td>400 psi (2.8 MPa)</td>
</tr>
</tbody>
</table>

### Shrinkage

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<tr>
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<th>28 days</th>
<th>&lt; 0.021 %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1”x1”x11-1/4” specimen</td>
<td>&lt; 0.05 %</td>
</tr>
<tr>
<td></td>
<td>3”x3”x11-1/4” specimen</td>
<td>&lt; 0.021 %</td>
</tr>
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</table>

### Ring Test

<table>
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<tr>
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<th>Duration</th>
<th>&gt;70 days</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Average Max Strain</td>
<td>-9 μstrain</td>
</tr>
<tr>
<td></td>
<td>Average Stress Strain</td>
<td>0.49 psi/day</td>
</tr>
<tr>
<td></td>
<td>Potential for Cracking</td>
<td>Low</td>
</tr>
</tbody>
</table>

### Baenziger Block

|       | 90 days | No cracking |

### Freeze-Thaw Stability

|       | 300 cycles | 98 % |

### Rapid Chloride Permeability

|       | 28 days | < 500 C |

### APPLICATION INFORMATION

#### Mixing Ratio

Plant-proportioned kit, mix entire unit.

#### Fresh Mortar Density

<table>
<thead>
<tr>
<th></th>
<th>136 lbs/ft³ (2.18 kg/l)</th>
</tr>
</thead>
</table>

#### Coverage

<table>
<thead>
<tr>
<th></th>
<th>Neat 0.51 ft² (0.02 m²) per unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Extended with 42 lb (19 kg) of 3/8” (9.5 mm) gravel 0.75 ft² (0.03 m²) per unit</td>
</tr>
</tbody>
</table>

(Coverage figures do not include allowance for surface profile and porosity or material waste)

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**Product Data Sheet**

SikaTop®-122 Plus

March 2020, Version 01.03

020302040070000021
APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Concrete, mortar, and masonry products must be clean and sound.
- Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- Be sure repair area is not less than 1/8" (3.2 mm) in depth.
- Preparation work should be done by high pressure water blast, scabbler or other appropriate mechanical means to obtain an exposed aggregate surface profile of ±1/16" - 1/8" (1.6 - 3.2 mm) (CSP-5-6).
- To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test.
- Saw cutting of edges is preferred and a dovetail is recommended.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.

PRIMING

- **Reinforcing steel**: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult PDS).
- **Concrete Substrate**: Prime the prepared substrate with a brush or sprayed applied coat of Sika® Armatec® 110 EpoCem (consult PDS). Alternately, a scrub coat of SikaTop®-122 Plus can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

MIXING

- Pour approximately 7/8 of Component ‘A’ into the mixing container.
- Add Component ‘B’ (powder) while mixing continuously.
- Mix mechanically with a low-speed drill (400–600 rpm) and mixing paddle or mortar mixer.
- Add remaining Component ‘A’ (liquid) to mix if a more loose consistency is desired.
- Mix to a uniform consistency, maximum 3 minutes.
- Thorough mixing and proper proportioning of the two components is necessary.
- Refer to ACI 306 Guidelines when there is a need to place this product in cold & hot temperatures. Thinner application will be more sensitive to the temperature

EXTENSION WITH AGGREGATES

- For applications greater than 1" (25.4 mm) in depth, add 3/8" (9.5 mm) coarse aggregate.
- Pour all of Component ‘A’ into mixing container.
- Add all of Component ‘B’ while mixing, then introduce 3/8" (9.5 mm) coarse aggregate at desired quantity.
- Mix to uniform consistency, maximum 3 minutes.
- The aggregate must be non-reactive (reference ASTM C-1260, C-227 and C-289), clean, well graded, Saturated Surface Dry (SSD), have low absorption and high density, and comply with ASTM C-33 size number 8 per Table 2.
- Do not use limestone aggregate.
- Variances in the quality of the aggregate will affect the physical properties of SikaTop®-122 Plus and may result in different strengths.
- The addition rate is 42 lb (19 kg) of aggregate per bag. It is approximately 3.0-4.5 gallons (11.3-17.0 L) by loose volume of aggregate.

APPLICATION

- SikaTop®-122 Plus must be scrubbed into the substrate, filling all pores and voids.
- Force material against edge of repair, working toward
center.
• After filling repair, consolidate, then screed.
• Allow mortar or concrete to set to desired stiffness, then finish with wood or sponge float for a smooth surface, or broom or burlap-drag for a rough finish.

CURING TREATMENT
• As per ACI recommendations for Portland cement concrete, curing is required.
• Moist cure with wet burlap and polyethylene, a fine mist of water or a water Sika® Antisol®-250 W* compatible curing compound meeting ASTM C-309.
• Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings.
• Moist curing should commence immediately after finishing.
• Protect freshly applied mortar from direct sunlight, wind, rain and frost.
• To prevent from freezing, cover with insulating material.
* Pretesting of curing compound is recommended.

LIMITATIONS
• Do not use solvent-based curing compound.
• Size, shape and depth of repair must be carefully considered and consistent with practices recommended by ACI or ICRI. For additional information, contact Technical Service.
• For additional information on substrate preparation, refer to ICRI Guideline No.310.2R Coatings, Polymer Overlays, and Concrete Repair.
• If aggressive means of substrate preparation is employed, substrate strength should be tested in accordance with ACI 503 Appendix A prior to the repair application.
• As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod.
• Refer to Sika® Antisol®-250 W product data sheet for use.

BASIS OF PRODUCT DATA
Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.
ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

• KEEP CONTAINER TIGHTLY CLOSED
• KEEP OUT OF REACH OF CHILDREN
• NOT FOR INTERNAL CONSUMPTION
• FOR INDUSTRIAL USE ONLY
• FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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