BIDDING AND CONTRACT DOCUMENTS

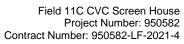
FOR

Field 11C CVC Screen House PROJECT NO. 950582 CONTRACT NO. 950582-LF-2021-4



City of Riverside, County of Riverside California

October 30, 2020





Cover Page

Specifications

TABLE OF CONTENTS

Table of Contents
Certification
Advertisement for for Bids
Project Directory
Instructions to Bidders
Supplementary Instructions to Bidders
Information Available to Bidders
Bid Form
Bid Bond
Agreement
General Conditions
Supplementary Conditions
Exhibits
List of Drawings
Drawings (Under Separate Cover)



Contract Number: 950582-LF-2021-4

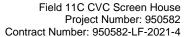
CERTIFICATION

Field 11C CVC Screen House

Bidding Documents	s Prepared By:		
Company Name:	CRB		
	3207 Grey Hawk Court (Street Address)		
	Carlsbad, CA 92010 (City, State & Zip Code)		
Signed:	(Signature of an Officer of the Firm Named Above)	_ Date:	08/12/2020
	Tapati Bose, Associate, Architect (Print Name & Title)	_	
Certification:			



(Affix professional registration stamp of the person named above with signature and expiration date.)





ADVERTISEMENT FOR BIDS

Subject to conditions prescribed by the University of California, Riverside, sealed bids for a lump sum contract are invited for the following Project:

FIELD 11C CVC SCREEN HOUSE

PROJECT NO. 950582 CONTRACT NO. 950582-LF-2021-4 UNIVERSITY OF CALIFORNIA, RIVERSIDE RIVERSIDE, CALIFORNIA

Project Description:

2-acre HDPE screen mesh structure approximately eighteen (18) feet in height, pole and cable construction with minor site grading and drainage, underground electrical from existing overhead service and meter with distribution panel and various circuits, point of connection irrigation and controls, positively pressured vestibule structure with roll-up doors and man-doors. Facility is required to meet USDA/APHIS exclusionary standards for Asian Citrus Psyllid. Structural Engineering and Designated Campus Fire Marshal submittals are required.

Estimated construction cost: \$1,250,000.00

Bidding and Contract Documents will be available at 2:00 PM, on Friday, October 30, 2020 upon request by sending an email to kara.longtin@ucr.edu. Interested parties must use the following in the subject header:

950582 Field 11C CVC Screen House- Request for Bid Documents

PRE-BID CONFERENCE & SITE VISIT

A mandatory Pre-Bid Zoom conference call will take place at **2:00 PM**, on **Thursday**, **November 5, 2020**. Only bidders who participate in the Pre-Bid conference will be allowed to bid on the Project as prime contractors. For further information, including the Zoom Meeting ID, interested bidders must contact the Project's Contract Administrator, Kara Longtin via email, at kara.longtin@ucr.edu. And must use the project's number and name in the subject header to request the Zoom information.

At this time, there are no plans for a site visit, if a bidder would like access to the site, this will be done by appointment only and through the coordination of the Contract Administrator noted above. Do not contact the project manager directly.

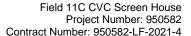
Bidders must provide their contact information and sign the Pre-Bid Conference attendance sheet. Only bidders who sign the attendance sheet will be eligible to submit bids for the Project as prime contractors.

Any bidder who enters the Pre-Bid Conference after 2:05 PM will be precluded from bidding as a prime contractor and may only bid as a subcontractor. Subcontractors are not required to attend; however we encourage their attendance.

BID DEADLINE

Bids must be received on or before **2:00 PM**, on **Wednesday, November 25, 2020** for furnishing all labor, materials, services, and equipment to complete the Work described below in accordance with the enclosed Bidding Documents. Due to COVID-19 restrictions, all bids will be received electronically only at the email address above; the low bidder must produce the original bid, bid bond, notary acknowledgement and surety notice within 24 hours of making an announcement of who the low bidder is.

Bids are to be submitted to The Regents of the University of California ("University") via email only at:





Email: kara.longtin@ucr.edu

Bid Security in the amount of 10% of the Lump Sum Base Bid shall accompany each Bid. The Surety issuing the Bid Bond shall be, on the Bid Deadline, an admitted surety insurer (as defined in California Code of Civil Procedure Section 995.120).

The successful Bidder and its subcontractors will be required to follow the nondiscrimination requirements set forth in the Bidding and Contract Documents and to pay prevailing wage rates at the location of the Work.

Every effort will be made to ensure that all persons have equal access to contracts and other business opportunities with the University within the limits imposed by law or University policy. Each Bidder may be required to show evidence of its equal employment opportunity policy. The successful Bidder and its subcontractors will be required to follow the nondiscrimination requirements set forth in the Bidding Documents and to pay prevailing wage at the location of the work.

The successful Bidder must have the following State of California Contractor's license current and active at the time of submission of the Bid: **B, General Building**.

The work described in the contract is a public work subject to section 1771 of the California Labor Code.

The successful Bidder shall pay all persons providing construction services and/or any labor on site, including any University location, no less than the 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.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA University of California, Riverside Publication Dates: 10/21/2020 – 11/04/2020





PROJECT DIRECTORY

Project Name:	Field 11C CVC Screen House

Project Number: 950582

Location: University of California, Riverside

University: The Regents of the University of California

University's Representative: Scott Donnell

Senior Project Manager

Planning, Design & Construction University of California, Riverside 1223 University Avenue, Suite 240

Riverside, CA 92507

Tel: (951) 827-4706

Email: scott.donnell@ucr.edu

Kara Longtin

Contract Administrator

Planning, Design & Construction University of California, Riverside 1223 University Avenue, Suite 240

Riverside, CA 92507

Tel: (951) 827-2610

Email: kara.longtin@ucr.edu

Charles Blumer

Senior Construction Inspector Planning, Design & Construction University of California, Riverside 1223 University Avenue, Suite 240

Riverside, CA 92507

Tel: (951) 827-1535

Email: charles.blumer@ucr.edu

Design Professional: Chris Humphrey

Senior Associate

Clark, Richardson & Biskup Consulting Engineers, Inc.

3207 Grey Hawk Court, Suite 150

Carlsbad, CA 92010

Tel: 760-519-6163

Email: chris.humphrey@crbusa.com



Field 11C CVC Screen House Project Number: 950582

Contract Number: 950582-LF-2021-4

Design Professional Consultants: David Beckwith President/CEO

David Beckwith and Associates, Inc. 1269 Pomona Road, Suite 108

Corona, CA. 9282

Tel: 714-349-7007

Email: dbeckwith@dbainc.com

Address for Stop Notices: University of California, Riverside

Accounting Office -002 Riverside, CA 92521-0123

Address for Demand for Arbitration: Western Case Management Center

6795 N. Palm Avenue, 2nd Floor

Fresno, CA 93704

A copy of the Demand for Arbitration must

be sent to:

University of California

Office of the General Counsel 1111 Franklin Street, 8th Floor Oakland, CA 94607-5200

END OF PROJECT DIRECTORY





INSTRUCTIONS TO BIDDERS

TABLE OF CONTENTS

ARTICLE 1 - DEFINITIONS

ARTICLE 2 - BIDDER'S REPRESENTATIONS

ARTICLE 3 - BIDDING DOCUMENTS

- 3.1 COPIES
- 3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS
- 3.3 PRODUCT SUBSTITUTIONS
- 3.4 SUBCONTRACTORS
- 3.5 ADDENDA
- 3.6 BUILDER'S RISK PROPERTY INSURANCE

ARTICLE 4 - PRE-BID CONFERENCE

ARTICLE 5 - BIDDING PROCEDURES

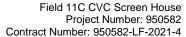
- 5.1 FORM AND STYLE OF BIDS
- 5.2 BID SECURITY
- 5.3 SUBMISSION OF BIDS
- 5.4 MODIFICATION OR WITHDRAWAL OF BID

ARTICLE 6 - CONSIDERATION OF BIDS

- 6.1 OPENING OF BIDS
- 6.2 REJECTION OF BIDS
- 6.3 AWARD

ARTICLE 7 - BID PROTEST

- 7.1 FILING A BID PROTEST
- 7.2 RESOLUTION OF BID CONTROVERSY





ARTICLE 1

DEFINITIONS

- 1.1 Except as otherwise specifically provided, definitions set forth in the General Conditions or in other Contract Documents are applicable to all Bidding Documents.
- 1.2 The term "Addenda" means written or graphic instruments issued by University prior to the Bid Deadline which modify or interpret the Bidding Documents by additions, deletions, clarifications, or corrections.
- 1.3 The term "Alternate" means a proposed change in the Work, as described in the Bidding Documents which, if accepted, may result in a change to either the Contract Sum or the Contract Time, or both.
- 1.4 The term "Bid Deadline" means the date and time on or before which Bids must be received, as designated in the Advertisement for Bids and which may be revised by Addenda.
- 1.5 The term "Bidder" means a person or firm that submits a Bid.
- 1.6 The term "Bidding Documents" means the construction documents prepared and issued for bidding purposes including all Addenda thereto.
- 1.7 The term "Estimated Quantity" means the estimated quantity of an item of Unit Price Work.
- 1.8 As used in these Instructions to Bidders, the term "Facility" means the University's Facility office issuing the Bidding Documents.
- 1.9 The term "Lump Sum Base Bid" means the sum stated in the Bid for which Bidder offers to perform the Work described in the Bidding Documents, but not including Unit Price items or Alternates.
- 1.10 The term "Planholder" means a person or entity known by the Facility to have received a complete set of Bidding Documents and who has provided a street address for receipt of any written pre-bid communications.
- 1.11 The term "Unit Price" means an amount stated in the Bid for which Bidder offers to perform an item of Unit Price Work for a fixed price per unit of measurement.
- 1.12 As used in these Instructions to Bidders, the term "Business Day" means any day other than a Saturday, a Sunday, and the holidays specified herein, and to the extent provided herein, if the Facility or applicable office of the University is closed for the whole of any day, insofar as the business of that office is concerned, that day shall be considered as a holiday for the purposes of computing time in these Instructions to Bidders. Holidays include January 1st, the third Monday in January, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, November 11th, Thanksgiving Day, December 25th, and every day designated by the University as a holiday.

ARTICLE 2

BIDDER'S REPRESENTATIONS

- 2.1 Bidder, by making a Bid, represents that:
- 2.1.1 Bidder has read, understood, and made the Bid in accordance with the provisions of the Bidding Documents.



- 2.1.2 Bidder has visited the Project site and is familiar with the conditions under which the Work is to be performed and the local conditions as related to the requirements of the Contract Documents.
- 2.1.3 The Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception.
- 2.1.4 At the time of submission of the Bid, Bidder and all Subcontractors, regardless of tier, have the appropriate current and active licenses issued by the State of California Contractors State License Board for the Work to be performed and any licenses specifically required by the Bidding Documents. If Bidder is a joint venture, at the time of submission of the Bid, Bidder shall have the licenses required by the preceding sentence in the name of the joint venture itself. The State of California Business and Professions Code, Division 3, Chapter 9, known as the "Contractor's License Law," establishes licensing requirements for contractors.
- 2.1.5 Bidder has read and shall abide by the nondiscrimination requirements contained in the Bidding Documents.
- 2.1.6 Bidder has the expertise and financial capacity to perform and complete all obligations under the Bidding Documents.
- 2.1.7 The person executing the Bid Form is duly authorized and empowered to execute the Bid Form on behalf of Bidder.
- 2.1.8 Bidder is aware of and, if awarded the Contract, will comply with Applicable Code Requirements in its performance of the Work.

ARTICLE 3

BIDDING DOCUMENTS

3.1 COPIES

- 3.1.1 Bidders may obtain complete sets of the Bidding Documents from the issuing office designated in the Advertisement for Bids for the sum stated therein, if any. Documents are only available in full sets and shall not be returned.
- 3.1.2 Bidders shall use a complete set of Bidding Documents in preparing Bids.
- 3.1.3 University makes copies of the Bidding Documents available, on the above terms, for the sole purpose of obtaining Bids for the Work and does not confer a license or grant permission for any other use of the Bidding Documents.

3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

- 3.2.1 Bidder shall, before submitting its Bid, carefully study and compare the components of the Bidding Documents and compare them with any other work being bid concurrently or presently under construction which relates to the Work for which the Bid is submitted; shall examine the Project site, the conditions under which the Work is to be performed, and the local conditions; and shall at once report to University's Representative errors, inconsistencies, or ambiguities discovered. If Bidder is awarded the Contract, Bidder waives any claim arising from any errors, inconsistencies or ambiguities, that Bidder, its subcontractors or suppliers, or any person or entity under Bidder on the Contract became aware of, or reasonably should have become aware of, prior to Bidder's submission of its Bid.
- 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be addressed only to the person or firm designated in the Supplementary Instructions to Bidders.



3.2.3 Clarifications, interpretations, corrections, and changes to the Bidding Documents will be made by Addenda issued as provided in Article 3.5. Clarifications, interpretations, corrections, and changes to the Bidding Documents made in any other manner shall not be binding and Bidders shall not rely upon them.

3.3 PRODUCT SUBSTITUTIONS

3.3.1 No substitutions will be considered prior to award of Contract. Substitutions will only be considered after award of the Contract and as provided for in the Contract Documents.

3.4 SUBCONTRACTORS

- 3.4.1 Each Bidder shall list in the Bid Form all first-tier Subcontractors that will perform work, labor or render such services as defined in Article 9 of the Bid Form. The Bid Form contains spaces for the following information when listing Subcontractors: (1) portion of the Work; (2) name of Subcontractor; (3) city of Subcontractor's business location. The failure to list, on the Bid Form, any one of the items set forth above will result in the University treating the Bid as if no Subcontractor was listed for that portion of the Work and Bidder will thereby represent to University that Bidder agrees that it is fully qualified to perform that portion of the Work and shall perform that portion of the Work.
- 3.4.2 Subcontractors listed in the Bid Form shall only be substituted after the Bid Deadline with the written consent of University and in accordance with the State of California "Subletting and Subcontracting Fair Practices Act."

3.5 ADDENDA

- 3.5.1 Addenda will be issued only by University and only in writing. Addenda will be identified as such and will be mailed or delivered to all Planholders. At its sole discretion, the University may elect to deliver Addenda via facsimile to Planholders who have provided a facsimile number for receipt of Addenda.
- 3.5.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for inspection.
- 3.5.3 Addenda will be issued such that Planholders should receive them no later than 3 full business days prior to the Bid Deadline. Addenda withdrawing the request for Bids or postponing the Bid Deadline may be issued anytime prior to the Bid Deadline.
- 3.5.4 Each Bidder shall be responsible for ascertaining, prior to submitting a Bid, that it has received all issued Addenda.

3.6 BUILDER'S RISK PROPERTY INSURANCE

3.6.1 University will provide builder's risk property insurance subject to the deductibles in the policy as required by the General Conditions if the Contract Sum exceeds \$200,000 at the time of award and the requirements of the Project are not excluded by such coverage. A summary of the provisions of the policy is included as an Exhibit to the Contract; the policy may be reviewed at the Facility's office. Bidder agrees that the University's provision of builder's risk property insurance containing said provisions meets the University's obligation to provide builder's risk property insurance under the Contract and, in the event of a conflict between the provisions of the policy and any summary or description of the provisions contained herein or otherwise, the provisions of the policy shall control and shall be conclusively presumed to fulfill the University's obligation to provide such insurance.



ARTICLE 4

PRE-BID CONFERENCE

4.1 Bidder shall attend the Pre-Bid Conference at which the requirements of the Bidding Documents are reviewed by University, comments and questions are received from Bidders, and a Project site visit is conducted. University requires all Pre-Bid Conference attendees to arrive for the meeting on time and to sign an attendance list, which in turn is used to determine if Bidders meet this requirement. Any Bidder not attending the Pre-Bid Conference in its entirety will be deemed to have not complied with the requirements of the Bidding Documents and its Bid will be rejected.

ARTICLE 5

BIDDING PROCEDURES

5.1 FORM AND STYLE OF BIDS

- 5.1.1 Bids shall be submitted on the Bid Form included with the Bidding Documents. Bids not submitted on the University's Bid Form shall be rejected.
- 5.1.2 The Bid Form shall be filled in legibly in ink or by typewriter. All portions of the Bid Form must be completed and the Bid Form must be signed before the Bid is submitted. Failure to comply with the requirements of this Article 5.1.2 will result in the Bid being rejected as nonresponsive.
- 5.1.3 Bidder's failure to submit a price for any Alternate or Unit Price will result in the Bid being considered as nonresponsive. If Alternates are called for and no change in the Lump Sum Base Bid is required, indicate "No Change" by marking the appropriate box.
- 5.1.4 Bidder shall make no stipulations on the Bid Form nor qualify the Bid in any manner.
- 5.1.5 The Bid Form shall be signed by a person or persons legally authorized to bind Bidder to a contract. Bidder's Representative shall sign and date the Declaration included in the Bid Form. Failure to sign and date the declaration will cause the Bid to be rejected.

5.2 BID SECURITY

- 5.2.1 Each Bid shall be accompanied by Bid Security in the amount of 10% of the Lump Sum Base Bid as security for Bidder's obligation to enter into a Contract with University on the terms stated in the Bid Form and to furnish all items required by the Bidding Documents. Bid Security shall be a Bid Bond on the form provided by University and included herein, or a certified check made payable to "The Regents of the University of California." When a Bid Bond is used for Bid Security, failure to use University's Bid Bond form will result in the rejection of the Bid. Bidder must use the Bid Bond form provided by the University or an exact, true and correct photocopy of such form. The Bid Bond form may not be retyped, reformatted, transcribed onto another form, or altered in any manner except for the purpose of completing the form.
- 5.2.2 If the apparent lowest responsible Bidder fails to sign the Agreement and furnish all items required by the Bidding Documents within the time limits specified in these Instructions to Bidders, University may reject such Bidder's Bid and select the next apparent lowest responsible Bidder until all Bids have been exhausted or University may reject all Bids. The Bidder whose Bid is rejected for such failure(s) shall be liable for and forfeit to University the amount of the difference, not to exceed the amount of the Bid Security, between the amount of the Bid of the Bidder so rejected and the greater amount for which University procures the Work.
- 5.2.3 If a Bid Bond is submitted, the signature of the person executing the Bid Bond must be notarized. If an attorney-in-fact executes the Bid Bond on behalf of the surety, a copy of the current power of attorney bearing the notarized signature of the appropriate corporate officer shall be included with the Bid Bond.



Additionally, the surety issuing the Bid Bond shall be, on the Bid Deadline, an admitted surety insurer (as defined in the California Code of Civil Procedure Section 995.120).

5.2.4 Bid Security will be returned after the contract has been awarded. Notwithstanding the preceding, if a Bidder fails or refuses, within 10 days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents, the University will retain that Bidder's Bid Security. If the Bid Security is in the form of a Bid Bond, the Bid Security will be retained until the University has been appropriately compensated; if the Bid Security is in the form of certified check, the University will negotiate said check and after deducting its damages, return any balance to Bidder.

5.3 SUBMISSION OF BIDS

- 5.3.1 The Bid Form, Bid Security, and all other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the office designated in the Supplementary Instructions to Bidders for receipt of Bids. The envelope shall be identified with the Project name, Bidder's name and address, and, if applicable, the designated portion of the Project for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.
- 5.3.2 Bids shall be deposited at the designated location on or before the Bid Deadline. A Bid received after the Bid Deadline will be returned to Bidder unopened.
- 5.3.3 Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.
- 5.3.4 Oral, telephonic, electronic mail (e-mail), facsimile, or telegraphic Bids are invalid and will not be accepted.

5.4 MODIFICATION OR WITHDRAWAL OF BID

- 5.4.1 Prior to the Bid Deadline, a submitted Bid may be modified or withdrawn by notice to the Facility receiving Bids at the location designated for receipt of Bids. Such notice shall be in writing over the signature of Bidder and, in order to be effective, must be received on or before the Bid Deadline. A modification so made shall be worded so as not to reveal the amount of the original Bid.
- 5.4.2 A withdrawn Bid may be resubmitted on or before the Bid Deadline, provided that it then fully complies with the Bidding Requirements.
- 5.4.3 Bid Security shall be in an amount sufficient for the Bid as modified or resubmitted.
- 5.4.4 Bids may not be modified, withdrawn, or canceled within 60 days after the Bid Deadline unless otherwise provided in Supplementary Instructions to Bidders.

ARTICLE 6

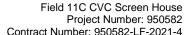
CONSIDERATION OF BIDS

6.1 OPENING OF BIDS

6.1.1 Bids which have the required identification as stipulated in Article 5.3.1 and are received on or before the Bid Deadline will be opened publicly.

6.2 REJECTION OF BIDS

6.2.1 University will have the right to reject all Bids.



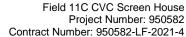


Project Number: 950582 Contract Number: 950582-LF-2021-4

6.2.2 University will have the right to reject any Bid not accompanied by the required Bid Security or any other item required by the Bidding Documents, or a Bid which is in any other way incomplete or irregular.

6.3 **AWARD**

- 6.3.1 University will have the right, but is not required, to waive nonmaterial irregularities in a Bid. If the University awards the Contract, it will be awarded to the responsible Bidder submitting the lowest responsive Bid as determined by University and who is not rejected by University for failing or refusing, within 10 days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents.
- 6.3.2 University will have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents. The opening of Bids and evaluation of Alternates will be conducted in accordance with a procedure that, at University's option, either (i) prescribes, prior to the time of Bid opening, the order in which Alternates will be selected or (ii) prevents, before the determination of the apparent low Bidder has been made, information that would identify which Bid belongs to which Bidder from being revealed to the representative of the University selecting the Alternates to be used in determining the low Bidder. After determination of the apparent low Bidder has been made, University will publicly disclose the identity of each Bidder that submitted a Bid and the amount of each such Bid.
- University will determine the low Bidder on the basis of the sum of the Lump Sum Base Bid plus 6.3.3 all Unit Prices multiplied by their respective Estimated Quantities as stated in the Bid Form, if any, plus the daily rate for Compensable Delay multiplied by the "multiplier" as stated in the Bid Form, plus the amounts of all Alternates to be included in the Contract Sum at the time of award. The Contract Sum will be the sum of the Lump Sum Base Bid and the additive or deductive amounts for all Alternates that University has elected to be included in the Contract Sum as of the time of award.
- 6.3.4 The University will post the Bid results in a public place at the address where the Bids are received (unless another address is specified in the Bidding Documents).
- University will select the apparent lowest responsive and responsible Bidder and notify such Bidder on University's form within 50 days (unless the number of days is modified in Supplementary Instructions to Bidders) after the Bid Deadline or reject all Bids. Within 10 days after receipt of notice of selection as the apparent lowest responsive and responsible Bidder, Bidder shall submit to University all of the following items:
 - .1 Three originals of the Agreement signed by Bidder.
 - .2 Three originals of the Payment Bond required under Article 11 of the General Conditions.
 - .3 Three originals of the Performance Bond required under Article 11 of the General Conditions.
 - Certificates of Insurance on form provided by University required under Article 11 of the General Conditions.
 - Name of, qualifications of, and references for the Superintendent proposed for the .5 Work.
 - .6 Names of all Subcontractors, with their addresses, telephone number, facsimile number, contact person, portion of the Work and designation of any Subcontractor as a Small Business Enterprise (SBE), Disadvantaged Business Enterprise (DBE), Women-owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE) on Report of Subcontractor Information in the form





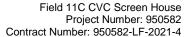
- contained in the Exhibits. Evidence, as required by University, of the reliability and responsibility of the proposed Subcontractors such as statements of experience, statements of financial condition, and references.
- .7 Preliminary Contract Schedule as required under Article 3 of the General Conditions.
- .8 If Bidder wishes to utilize securities in lieu of retention beginning with the first Application for Payment, Selection of Retention Options accompanied by a completed Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits.
- .9 Cost Breakdown as required by Article 9 of the General Conditions.
- 6.3.6 Prior to award of the Contract, University will notify Bidder in writing, if University, after due investigation, objects to a Subcontractor or Superintendent proposed by Bidder, in which case Bidder shall propose a substitute acceptable to University. Substitution of Superintendent shall be made in accordance with Article 3 of the General Conditions. Substitution of a Subcontractor shall be made in accordance with Article 5 of the General Conditions. Failure of University to object to a proposed Superintendent or Subcontractor prior to award shall not preclude University from requiring replacement of Superintendent or any Subcontractor based upon information received subsequent to award, information which cannot be properly evaluated prior to award due to time constraints, or information relating to a failure to comply with the requirements of the Contract.
- 6.3.7 If Bidder submits three originals of the signed Agreement and all other items required to be submitted to University within 10 days after receipt of notice of selection as the apparent lowest responsive and responsible Bidder, and if all such items comply with the requirements of the Bidding Documents and are acceptable to University, University will award the Contract to Bidder by signing the Agreement and returning a signed copy of the Agreement to Bidder.
- 6.3.8 If University consents to the withdrawal of the Bid of the apparent lowest responsive and responsible Bidder, or the apparent lowest responsive and responsible Bidder fails or refuses to sign the Agreement or submit to University all of the items required by the Bidding Documents, within 10 days after receipt of notice of selection, or that Bidder is not financially or otherwise qualified to perform the Contract, University may reject such Bidder's Bid and select the next apparent lowest responsible Bidder, until all Bids are exhausted, or reject all Bids. Any Bidder whose Bid is rejected because the Bidder has failed or refused, within 10 days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents, shall be liable to the University for all resulting damages.

ARTICLE 7

BID PROTEST

7.1 FILING A BID PROTEST

- 7.1.1 Any Bidder, person, or entity may file a Bid protest. The protest shall specify the reasons and facts upon which the protest is based and shall be in writing and received by with the Facility not later than 5:00 PM on the 3rd business day following:
 - .1 if the Bid Form does not contain any Alternate(s), the date of the Bid opening;
- .2 if the Bid Form contains any Alternate(s), the date of posting in a public place of Bid results.
 7.1.2 If a Bid is rejected by the Facility, and such rejection is not in response to a Bid protest, any Bidder, person or entity may dispute that rejection by filing a Bid protest (limited to the rejection) in writing and received by the Facility not later than 5:00 PM on the 3rd business day following the rejected Bidder's receipt of the notice of rejection.





7.1.3 For the purpose of computing any time period in this Article 7, the date of receipt of any notice shall be the date on which the intended recipient of such notice actually received it. Delivery of any notice may be by any means, with verbal or written confirmation of receipt by the intended recipient.

7.2 RESOLUTION OF BID CONTROVERSY

- 7.2.1 Facility will investigate the basis for the Bid protest and analyze the facts. Facility will notify Bidder whose Bid is the subject of the Bid protest of evidence presented in the Bid protest and evidence found as a result of the investigation, and, if deemed appropriate, afford Bidder an opportunity to rebut such evidence, and permit Bidder to present evidence that it should be allowed to perform the Work. If deemed appropriate by Facility, an informal hearing will be held. Facility will issue a written decision within 15 days following receipt of the Bid protest, unless factors beyond Facility's reasonable control prevent such a resolution, in which event such decision will be issued as expeditiously as circumstances reasonably permit. The decision will state the reasons for the action taken by Facility. A written copy of the decision will be furnished to the protestor, the Bidder whose Bid is the subject of the Bid protest, and all Bidders affected by the decision. As used in this Article 7, a Bidder is affected by the decision on a Bid protest if a decision on the protest could have resulted in the Bidder not being the lowest responsible and responsive Bidder for the Contract. A written copy of the Facility's decision must be received by the protester, the Bidder whose Bid is the subject of the Bid protest, and all Bidders affected by the decision no later than 3 business days prior to award of the contract.
- 7.2.2 Notwithstanding the provisions of Article 7.2.1, at the election of Facility, a Bid protest may be referred directly to University's Construction Review Board without prior investigation and review by Facility. The Chair of the Construction Review Board will either decide the Bid protest or appoint a Hearing Officer. If a Hearing Officer is appointed, the Hearing Officer will review the Bid protest in accordance with the provisions of Article 7.2.4.
- 7.2.3 Bidder whose Bid is the subject of the protest, all Bidders affected by the Facility's decision on the protest, and the protestor have the right to appeal to the Construction Review Board if not satisfied with Facility's decision. The appeal must be in writing and shall specify the decision being appealed and all the facts and circumstances relied upon in support of the appeal. A copy of the appeal must be received by the Chair, Construction Review Board, not later than 5:00 pm on the 3rd business day following appellant's receipt of the written decision of Facility, at the following address:

Chair, Construction Review Board University of California Office of the President 1111 Franklin Street, 6th Floor Oakland, CA 94607-5200

Attention: Associate Director, Design & Construction Policy

And, by email to:

constructionreviewboard@ucop.edu

A copy of the appeal must be sent to all parties involved in the Bid protest and to Facility, to the same address and in the same manner as the original protest. An appeal received after 5:00 pm is considered received as of the next business day. If the final date for receipt of an appeal falls on a Saturday, Sunday, or University holiday, the appeal will be considered timely only if received by 5:00 pm on the following business day. The burden of proving timely receipt of the appeal is on the appealing party.

7.2.4 The Chair of the Construction Review Board will review the Facility's decision and the appeal, and issue a written decision, or if appropriate, appoint a Hearing Officer to conduct a hearing and issue a written decision. If a hearing is held, the hearing shall be held not later than the 10th day following the appointment of the Hearing Officer unless the Hearing Officer for good cause determines otherwise. The written decision of the Chair or Hearing Officer will state the basis of the decision, and the decision will be



final and not subject to any further appeal to University. The Chair or Hearing Officer may consult with the University's Office of the General Counsel on the decision as to legal form. The University will complete its internal Bid protest procedures before award of the Contract.

END OF INSTRUCTIONS TO BIDDERS



SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

- 1. Contract Time: As specified in Section 1 of the Bid Form.
- 2. List of Subcontractors (Bid Form Paragraph 9.0) and List of Changes in Subcontractors Due to Alternates (Bid Form Paragraph 10.0).

The default rule is that, if a Bidder lists one subcontractor for a Work Activity (such as "Electrical") under Bid Form Paragraph 9.0 and a different subcontractor for the same Work Activity (such as "Electrical") for the Alternate Work under Bid Form Paragraph 10.0 without reference to the Alternate, then it is deemed that the second subcontractor listed in Paragraph 10.0 will perform the Base Bid Work and the Alternate Work, unless the Bidder expressly writes otherwise.

A Bidder may list more than one subcontractor per trade, provided that the Work Activity to be performed by each listed subcontractor is adequately described on the spaces provided on the Bid Form, so that which subcontractor will perform which Work Activity can be determined.

For example, in case of Alternates, if a Bidder wants one subcontractor to perform the electrical Base Bid Work and another subcontractor to perform the electrical Alternate Work, then the Bidder should list the first subcontractor under Bid Form Paragraph 9.0 as performing the "Electrical" Work Activity, and list the second subcontractor under Bid Form Paragraph 10.0 (for listing changes in subcontractors due to Alternates) as performing the "Electrical Alt" or "Electrical Alt Work" or "Electrical Alt Only" or similarly to define the Alternate Work Activity separately to be performed.

3. Requests for clarification or interpretation of the Bidding Documents must be submitted via email, and shall be addressed only to:

Kara Longtin

Email: kara.longtin@yahoo.com

Tel: 951.827.2610

The deadline to submit requests for clarification or interpretation is on or before 2:00 PM, on Thursday, November 12, 2020.

4. The <u>mandatory</u> Pre-Bid Zoom Conference will take place at **2:00 PM on Thursday November 5**, **2020** specified in the **ADVERTISEMENT FOR BIDS**, bound herein. Only bidders who participate in the Pre-Bid conference will be allowed to bid on the Project as prime contractors. For further information, including the Zoom Meeting ID, interested bidders must contact the Project's Contract Administrator, **Kara Longtin** via email, at <u>kara.longtin@ucr.edu</u>. And must use the project's number and name in the subject header to request the Zoom information.

Due to COVID-19 restrictions, there will be no mandatory site visit. However, if a contractor would like to visit the site, it will be by appointment only; please contact Kara Longtin to schedule a time.

- 5. Bids must be received on or before the Bid Deadline and only at the location specified in the **ADVERTISEMENT FOR BIDS**.
- Bids will be opened at the same location specified in the ADVERTISEMENT FOR BIDS for the receipt of bids.



- 7. Contractor will be assessed as liquidated damages the sum of **\$0.00** for each day the Work remains incomplete beyond the expiration of the Contract Time. After Substantial Completion, the rate for liquidated damages shall be reduced to the sum of **\$0.00** per day. See Article 5 of the Agreement for detailed requirements
- 8. Replace the existing Paragraph 1.4 with the following:
 - 1.4 The term "Bid Deadline" means the date and time on or before which Bids must be received, as designated in the **ADVERTISEMENT FOR BIDS** and which may be revised by Addenda.
- 9. Replace the existing Paragraph 3.1.1 with the following:
 - 3.1.1 Bidders may obtain complete sets of the Bidding Documents from the issuing office designated in the **ADVERTISEMENT FOR BIDS**.
- 10. Replace the existing Paragraph 3.5.1 with the following:
 - 3.5.1 Addenda will be issued only by University and only in writing. Addenda will be identified as such and will be mailed or delivered to all Planholders. At its sole discretion, the University may elect to deliver Addenda via facsimile or email to Planholders who have provided a facsimile number or email address for receipt of Addenda or communications.
- 11. Replace the existing Paragraph 3.5.3 with the following:
 - 3.5.3 Addenda will be issued such that Planholders should receive them no later than 72 hours prior to the Bid Deadline. Addenda withdrawing the request for Bids or postponing the Bid Deadline may be issued anytime prior to the Bid Deadline.
- 12. Replace the existing Paragraph 5.2.4 with the following:
 - 5.2.4 Bid Security will be returned after the contract has been awarded. Notwithstanding the preceding, if a Bidder fails or refuses, within **10** days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents, the University will retain that Bidder's Bid Security. If the Bid Security is in the form of a Bid Bond, the Bid Security will be retained until the University has been appropriately compensated; if the Bid Security is in the form of certified check, the University will negotiate said check and after deducting its damages, return any balance to Bidder.
- 13. Add the following as Paragraph 5.3.5:
 - 5.3.5 As specified in the **ADVERTISEMENT FOR BIDS**, the University has determined that bidders who submit bids for this Project do not need to be prequalified.
- 14. Replace the existing Paragraph 5.4.4 with the following:
 - 5.4.4 Bids may not be modified, withdrawn, or canceled within **60** days after the Bid Deadline.



- 15. Replace the existing Paragraph 6.3.1 with the following:
 - 6.3.1 University will have the right, but is not required, to waive nonmaterial irregularities in a Bid. If the University awards the Contract, it will be awarded to the responsible Bidder submitting the lowest responsive Bid as determined by University and who is not rejected by University for failing or refusing, within **10** days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents.
- 16. Replace the existing Paragraph 6.3.5 with the following:
 - 6.3.5 University will select the apparent lowest responsive and responsible Bidder and notify such Bidder on University's form within **50** days (unless the number of days is modified in Supplementary Instructions to Bidders) after the Bid Deadline or reject all Bids. Within **10** days after receipt of notice of selection as the apparent lowest responsive and responsible Bidder, Bidder shall submit to University all of the following items:
 - .1 One original of the Agreement signed by Bidder.
 - .2 One original of the Payment Bond required under Article 11 of the General Conditions.
 - .3 One original of the Performance Bond required under Article 11 of the General Conditions.
 - .4 Certificates of Insurance on form provided by University required under Article 11 of the General Conditions.
 - .5 Names of all Subcontractors, with their addresses, telephone and facsimile numbers, contact persons, portions of the Work and designation of any Subcontractor as a Small Business Enterprise (SBE), Disadvantaged Business Enterprise (DBE), Women-owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE) on the Report of Subcontractor Information form, along with a completed Self-Certification form, contained in the Exhibits. Evidence, as required by University, of the reliability and responsibility of the proposed Subcontractors such as statements of experience, statements of financial condition, and references.
 - .6 Preliminary Contract Schedule as required under Article 3 of the General Conditions.
 - .7 If Bidder wishes to utilize securities in lieu of retention beginning with the first Application for Payment, a completed Selection of Retention Options form accompanied by a completed Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits.
 - .8 Cost Breakdown as required by Article 9 of the General Conditions.
- 17. Replace the existing Paragraph 6.3.7 with the following:
 - 6.3.7 If Bidder submits three originals of the signed Agreement and all other items required to be submitted to University within **10** days after receipt of notice of selection as the apparent lowest responsive and responsible Bidder, and if all such items comply with the requirements of the Bidding Documents and are acceptable to University, University will award the Contract to Bidder by signing the Agreement and returning a signed copy of the Agreement to Bidder.



- 18. Replace the existing Paragraph 6.3.8 with the following:
 - 6.3.8 If University consents to the withdrawal of the Bid of the apparent lowest responsive and responsible Bidder, or the apparent lowest responsive and responsible Bidder fails or refuses to sign the Agreement or submit to University all of the items required by the Bidding Documents, within 10 days after receipt of notice of selection, or that Bidder is not financially or otherwise qualified to perform the Contract, University may reject such Bidder's Bid and select the next apparent lowest responsible Bidder, until all Bids are exhausted, or reject all Bids. Any Bidder whose Bid is rejected because the Bidder has failed or refused, within 10 days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents, shall be liable to the University for all resulting damages.
- 19. The University has negotiated contracts with certain suppliers (listed in the "Information Available to Bidders") to supply materials to University construction projects. Bidders may be able to obtain favorable pricing from the listed suppliers for materials required for this Contract. Bidders are not obligated to obtain any required materials from the listed suppliers. Use of any of the listed suppliers is at the Bidder's risk, and the University does provide any warranties, express or implied, with respect to the listed suppliers, their products and/or services. In particular, University does not warrant that the listed suppliers, their products and/or services are suitable for this Project.
- 20. **PREVAILING WAGE INFORMATION:** A bidder can obtain the prevailing wage information through the internet at www.dir.ca.gov/DLSR/PWD.

END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS



INFORMATION AVAILABLE TO BIDDERS

The following information is made available for the convenience of bidders and is not a part of the Contract. The information is provided subject to the provisions of Article 3 of the General Conditions.

The University of California has contracts for materials, equipment and/or services with the suppliers listed
on the Office of the President Procurement Services website at: http://www.ucop.edu/procurement-services/for-suppliers/ucop-designated-construction-agreements.html

General Contractors or others submitting bids for University construction projects may enter into agreements with these suppliers that utilize the pricing and terms contained in the University-supplier agreements. The university does not represent or warrant that materials/equipment/services of these suppliers meet the requirements of the University's construction contracts.

Use of such suppliers shall not relieve Contractor from its obligation to meet all contractual requirements in any contracts with the University. The university will not be a party to any agreements with such suppliers and accepts no performance obligations or liability with respect to such agreements.

END OF INFORMATION AVAILABLE TO BIDDERS

3.	Record Documents and As-Builts:
	N/A

2.

Reports:

N/A



BID FORM

FOR: FIELD 11C CVC SCREEN HOUSE

PROJECT NUMBER: 950582

CONTRACT NUMBER: 950582-LF-2021-4 UNIVERSITY OF CALIFORNIA, RIVERSIDE

RIVERSIDE, CALIFORNIA

October 30, 2020

BID TO:

Planning, Design & Construction UNIVERSITY OF CALIFORNIA, RIVERSIDE 1223 University Avenue, Suite 240 Riverside, CA 92507

(951) 827-4201

BID FROM:			
		(Name of Bidder)	
		(Contact Name)	
		(Address)	
		City, State, Zip Code)	
	(only, State, Zip Code)	
	(Telephone Number)	_	(Facsimile Number)
		(E-mail)	
		Date Bid Submitted)	

Note: All portions of this Bid Form must be completed and the Bid Form must be signed before the Bid is submitted. Failure to do so will result in the Bid being rejected as non-responsive.

UC LF/BF/MP-BF, April 29, 2015 Bid Form - 1

RIVERSIDE Planning, Design & Construction

Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4

BIDDER'S NAME:

1.0 **BIDDER'S REPRESENTATIONS**

Bidder, represents that a) Bidder and all Subcontractors, regardless of tier, has the appropriate current and active Contractor's licenses required by the State of California and the Bidding Documents; b) it has carefully read and examined the Bidding Documents for the proposed Work on this Project; c) it has examined the site of the proposed Work and all Information Available to Bidders; d) it has become familiar with all the conditions related to the proposed Work, including the availability of labor, materials, and equipment; e) Bidder and all Subcontractors, regardless of tier, are currently registered with the California Department of Industrial Relations pursuant to California Labor Code Section 1725.5 and 1771.1. Bidder hereby offers to furnish all labor, materials, equipment, tools, transportation, and services necessary to complete the proposed Work on this Project in accordance with the Contract Documents for the sums quoted. Bidder further agrees that it will not withdraw its Bid within 60 days after the Bid Deadline, and that, if it is selected as the apparent lowest responsive and responsible Bidder, that it will, within 10 days after receipt of notice of selection, sign and deliver to University the Agreement in triplicate and furnish to University all items required by the Bidding Documents. If awarded the Contract, Bidder agrees to complete the proposed Work within 155 days after the date of commencement specified in the Notice to Proceed.

2.0 **ADDENDA**

Bidder acknowledges that it is Bidder's responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda from University's Facility at the appropriate address stated on peen issued for

Page 1 this Bid	of this Bid Form. Bidder therefore agrees to be bound by all Addenda that have b.
3.0	NOT USED
4.0	LUMP SUM BASE BID
	\$
	(Place figures in appropriate boxes.)
5.0	SELECTION OF APPARENT LOW BIDDER
Refer to	the Instructions to Bidders for selection of apparent low bidder.

6.0 NOT USED

UCR Rev. 2015-10-02 LF

BIDDER'S NAME:

7.0 NOT USED

8.0 ALTERNATES

In order for a Bid to be responsive, Bidder must submit an additive bid, a deductive bid, or a "no change" bid, for each Alternate listed below. The failure to do so shall result in the Bid being rejected as non-responsive. The failure to quote an amount, unless the bidder marks the "no change" box, will result in the bid being rejected as non-responsive.

The Contract Time will change by the number of days, if any, specified for each accepted Alternate.

Alternate No. 1

Add additional 19 rows of trees, as specified in specification section 01 2300.

Bid for Alternate No. 1

Sum.

If "Add" or "Deduct" is intended, indicate by placing figures in the corresponding boxes. If "No Change" is intended, indicate by marking the "No Change" box

Add	\$,				,				•		
Deduct	\$,				,						
No Chang	ge: Bi	dder will	perfo	orm th	is Alt	erna	ate wi	thout	chan	ge to	Contr	act

No extension of time will be granted if this Alternate is accepted.

University reserves the right to accept this Alternate within 10 calendar days after the date University signs the Agreement:

UC LF/BF/MP-BF, April 29, 2015 Bid Form - 3

UCR Rev. 2015-10-02 LF

BIDD	BIDDER'S NAME:					
9.0	LIST OF SUBCONTRACTORS					
Bidde	er will use Subcontractors for the Work:					
	□ No □ Yes					
If "yes	s", provide in the spaces below (a) the name, the location of the place of business, and the Californ					

If "yes", provide in the spaces below (a) the name, the location of the place of business, and the California contractor license number of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a subcontractor licensed by the state of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of 1 percent of the prime contractor's total bid, (b) the portion of the work which will be done by each subcontractor. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in its bid.

	Subcontractor					
Portion of the Work Activity (e.g. electrical, mechanical, concrete)	Name of Business	Location of Business (City)	License No.	DIR Registration No.		

(Note: Add additional pages if required.)

BIDDER'S NAME:	

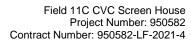
10.0 <u>LIST OF CHANGES IN SUBCONTRACTORS DUE TO ALTERNATES</u>

The information below must be provided for all changes in first-tier Subcontractors if University selects Alternates. List changes in Subcontractors only for those portions of the Work valued in excess of one-half of 1 percent of prime contractor's total bid.

	Subcontractor					
Portion of the Work Activity (e.g. electrical, mechanical, concrete)	Name of Business	Location of Business (City)	License No.	DIR Registration No.		

(Note: Add additional pages if required.)

UCR Rev. 2015-10-02 LF





BIDDER'S NAME	<u> </u>		
1.0 <u>BIDDER</u>	INFORMATION		
TYPE OF ORGA	ANIZATION		
	(Corporation, Partnership, Individual, Joint Ventu	re, etc.)	_
IF A CORPORA	TION, THE CORPORATION IS ORGANIZED	UNDER THE LAWS OF:	
THE	STATE OF (State)	·	
NAME	OF PRESIDENT OF THE CORPORATION:		
NAME	(Insert Name) E OF SECRETARY OF THE CORPORATION	:	_ ·
	(Insert Name)		_ ·
IF A PARTNER	SHIP, NAMES OF ALL GENERAL PARTNER	S:	
	(Insert Name(s))		_ ·
CALIFORNIA C	ONTRACTORS LICENSE(S):		_
	(Classification(s))	(License Number)	(Expiration Date)
(For Joint Venture, list Joint Venture's license a	and licenses for all Joint Ve	enture partners.)

Bid Form - 6 UC LF/BF/MP-BF, April 29, 2015 UCR Rev. 2015-10-02 LF



BIDDER'S NAME:

12.0	REQUIRED COMPLETED ATTA	ACHMENTS		
			adition of this Disk	
ine	following documents are submitted		naition of this Bia:	
	Bid Security in the form of		(Bid Bond or Certified C	Check)
13.0	<u>DECLARATION</u>			
	I,			hereby declare that I am the
	,,	(Printed Name)		, hereby declare that I am the
	of	(Filling Name)	(D)	
	(Title)		(Name of Bido	ier)
subn	nitting this Bid Form; that I am dul	ly authorized to execu	ute this Bid Form o	n behalf of Bidder; and that al
infor	mation set forth in this Bid Form and	d all attachments here	eto are, to the best o	f my knowledge, true, accurate
and	complete as of its submission date.			
	I further declare that this bid is no	ot made in the interest o	of, or on behalf of, any	undisclosed person, partnership
comp	pany, association, organization, or cor	poration; that the bid is	genuine and not coll	usive or sham; that the bidder has
not o	directly or indirectly induced or solic	ited any other bidder	to put in a false or s	ham bid, and has not directly or
indir	ectly colluded, conspired, connived, o	or agreed with any bidd	er or anyone else to	put in a sham bid, or that anyone
shall	refrain from bidding; that the bid	der has not in any m	nanner, directly or i	ndirectly, sought by agreement
comr	nunication, or conference with anyon	ne to fix the bid price of	the bidder or any oth	ner bidder, or to fix any overhead
profi	t, or cost element of the bid price, or o	of that of any other bide	der, or to secure any a	advantage against the public body
awar	ding the contract of anyone intereste	ed in the proposed cont	ract; that all stateme	nts contained in the bid are true
and,	further, that the bidder has not, dire	ctly or indirectly, subm	itted his or her bid pr	ice or any breakdown thereof, or
	contents thereof, or divulged inform		•	•
	oration, partnership, company assoc			
	tuate a collusive or sham bid.	, 0 ,	. ,,	,
	I declare, under penalty of perju	iry that the foregoing	is true and correct a	nd that this Declaration was
evec	uted at:	ary, that the follogoling	is true and correct o	ind that this beolaration was
CACC	atod at.		, in the State of	
	(Name of City if within a City, otherwise	Name of County)	, in the State of	(State)
on	(Date)			
_	(Date)			
				(Cignoturo)
				(Signature)

UC LF/BF/MP-BF, April 29, 2015 UCR Rev. 2015-10-02 LF Bid Form - 7





BID BOND

KNOW ALL PERSONS BY THESE PRESENTS:

That we,												
as Principal, and				_, as	Surety,	are	held	and	firmly	bound	unto	THE
REGENTS OF THE	UNIVERSITY (OF CALIFOR	NIA, hereinafte	er called	THE R	EGEN	NTS, i	n the	sum o	f 10% o	f the L	ump
Sum Base Bid amo	unt for paymen	t of which in	lawful money	of the l	Jnited S	tates,	well	and to	ruly to	be mad	le, we	bind
ourselves, our heirs,	executors, adm	ninistrators, su	iccessors, and	assigns	s, jointly	and s	evera	lly, firr	mly by	these p	resent	s.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH THAT, WHEREAS, Principal has submitted a Bid for the work described as follows:

Project Name: FIELD 11C CVC SCREEN HOUSE

Project Number: 950582, Contract Number: 950582-LF-2021-4 Location: 900 UNIVERSITY AVENUE, RIVERSIDE, CA. 92521

NOW, THEREFORE, if Principal shall not withdraw said Bid within the time period specified after the Bid Deadline, as defined in the Bidding Documents, or within 60 days after the Bid Deadline if no time period be specified, and, if selected as the apparent lowest responsible Bidder, Principal shall, within the time period specified in the Bidding Documents, do the following:

- Enter into a written agreement, in the prescribed form, in accordance with the Bid.
- (2) File two bonds with THE REGENTS, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by the Bidding Documents.
- (3)Furnish certificates of insurance and all other items as required by the Bidding Documents.

In the event of the withdrawal of said Bid within the time period specified, or within 60 days if no time period be specified. or the disqualification of said Bid due to failure of Principal to enter into such agreement and furnish such bonds, certificates of insurance, and all other items as required by the Bidding Documents, if Principal shall pay to THE REGENTS an amount egual to the difference, not to exceed the amount hereof, between the amount specified in said Bid and such larger amount for which THE REGENTS procure the required work covered by said Bid, if the latter be in excess of the former, then this obligation shall be null and void, otherwise to remain in full force and effect.

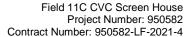
In the event suit is brought upon this bond by THE REGENTS, Surety shall pay reasonable attorneys' fees and costs incurred by THE REGENTS in such suit.

IN WITNESS WHEREOF, we have hereunto set our hands this day of, 20							
PRINCIPAL:		SUR	SURETY:				
	(Non-100		Alama (Courana)				
Б.	(Name of Company)	D	(Name of Company)				
Ву:	(Signature)	By: _	(Signature)				
	(Printed Name)		(Printed Name)				
-	(Title)	 -	(Title)				
			Address for Notices:				
		<u>-</u>					
			(Street Address)				
			(City, State & Zin Code)				

NOTE: Notary acknowledgement for Surety and Surety's Power of Attorney must be attached.

Bid Bond - 1 UC MF, Rev. 0, August 1, 2007

UCR Rev. 2012-04-05 MF/LI





AGREEMENT

This AGREEMENT is made on_	, between THE REGENTS OF	F THE UNIVERSITY OF CALIFORNIA
("University"),		

whose Facility is: University of California, Riverside

whose address for notices is: UCR Planning, Design & Construction

UNIVERSITY OF CALIFORNIA, RIVERSIDE

1223 University Avenue, Suite 240

Riverside, CA 92507

and Contractor: Name

whose address for notices is: Street Address

City, State & Zip

for the Project: FIELD 11C CVC SCREEN HOUSE

Project Number: 950582

University of California, Riverside

County of Riverside

Riverside, California 92507

University's Responsible Administrator: Blythe R. Wilson, Architect

Director of Project Management Planning, Design & Construction

University's Representative is: Scott Donnell

Senior Project Manager

Planning, Design & Construction

whose address for notices is: UCR Planning, Design & Construction

UNIVERSITY OF CALIFORNIA, RIVERSIDE

1223 University Avenue, Suite 240

Riverside, CA 92507

Contract Documents for the

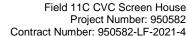
Work Prepared by:

Chris Humphrey

Clark, Richardson & Biskup Consulting Engineers

3207 Grey Hawk Court, Suite 150

Carlsbad, CA 92010 Tel: 760-519-6163





University and Contractor hereby agree as follows:

ARTICLE 1 WORK

Contractor shall provide all work required by the Contract Documents (the "Work"). Contractor agrees to do additional Work arising from changes ordered by the University pursuant to Article 7 of the General Conditions. Contractor shall (1) pay all sales, consumer and other taxes and (2) obtain and pay for any governmental licenses and permits necessary for the work, other than building and utility permits.

ARTICLE 2 CONTRACT DOCUMENTS

"Contract Documents" means the Advertisement For Bids, Instructions To Bidders, Supplementary Instructions to Bidders, Bid Form, this Agreement, General Conditions, Supplementary Conditions, Exhibits, Specifications, List of Drawings, Drawings, Addenda, Notice to Proceed, Change Orders, Notice of Completion, and all other documents identified in this Agreement that together form the contract between University and Contractor for the Work (the "Contract"). The Contract constitutes the complete agreement between University and Contractor and supersedes any previous agreements or understandings.

ARTICLE 3 CONTRACT SUM

Subject to the provisions of the Contract Documents University shall pay to Contractor, for the performance of the Work, \$, the "Contract Sum".

The Contract Sum includes the following Alternates accepted by University:

List Alternates Accepted by University at Time of Award

University reserves the right to accept the following Alternates within {INSERT NUMBER FROM BID FORM} days after the date of this Agreement:

List Alternates Not Accepted by University at Time of Award

ARTICLE 4 CONTRACT TIME

Contractor shall commence the Work on the date specified in the Notice to Proceed and fully complete the work within **155** days, the "Contract Time".

By signing this agreement, Contractor represents to University that the Contract Time is reasonable for completion of the work and that Contractor will complete the Work within the Contract Time. Time limits stated in the Contract Documents are of the essence of the Contract.

ARTICLE 5 LIQUIDATED DAMAGES

If Contractor fails to complete the Work within the Contract Time, Contractor shall pay to University, as liquidated damages and not as a penalty, the sum of \$0.00 for each day after the expiration of the Contract Time that the Work remains incomplete. After Substantial Completion, the rate for liquidated damages shall be reduced to the sum of \$0.00 per day. University and Contractor agree that if the Work is not completed within the Contract Time, University's damages would be extremely difficult or impracticable to determine and that the aforesaid amounts are reasonable estimates of and reasonable sums for such damages. University may deduct any liquidated damages due from Contractor from any amounts otherwise due to Contractor under the Contract Documents. This provision shall not limit any right or remedy of University in the event of any other default of Contractor other than failing to complete the Work within the Contract Time.



ARTICLE 6 NOT USED

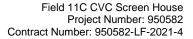
ARTICLE 7 DUE AUTHORIZATION

The person or persons signing this Agreement on behalf of Contractor hereby represent and warrant to University that this Agreement is duly authorized, signed, and delivered by Contractor.

THIS AGREEMENT is entered into by University and Contractor as of the date set forth above.

(Name of Company)	California Contractor's License(s):				
a (Type of Organization)	(Name of Licensee)				
By:(Signature)	(Classification and License Number)				
(Print Name)	(Expiration Date)				
(Title)	(Employer Identification Number)				
Recommended: By University's Representative:	Funds Sufficient: By Financial Administrative Officer:				
(Signature & Date)	(Signature & Date)				
Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title)	Susan McFadden Senior Financial Analyst Planning, Design & Construction (Print Name & Title)				
UNIVERSITY: By The Regents of the University of California:					
(Signature & Date) Blythe R. Wilson, Architect Director of Project Management Planning, Design & Construction (Print Name & Title)	Account No.: Activity Code: Fund: Function: Project Code:				

Attach notary acknowledgement for all signatures of Contractor. If signed by other than the sole proprietor, a general partner, or corporate officer, attach original notarized Power of Attorney or Corporate Resolution.





GENERAL CONDITIONS – LONG FORM TABLE OF CONTENTS

ARTICLE 1. GENERAL PROVISIONS

- 1.1 Basic Definitions
- 1.2 Ownership and Use of Contract Documents
- 1.3 Interpretation

ARTICLE 2. UNIVERSITY

- 2.1 Information and Services Provided by University
- 2.2 Access to Project Site
- 2.3 University's Right to Stop the Work
- 2.4 University's Right to Carry Out the Work
- 2.5 University's Right to Replace University's Representative

ARTICLE 3. CONTRACTOR

- 3.1 Review of Contract Documents and Field Conditions by Contractor
- 3.2 Supervision and Construction Procedures
- 3.3 Labor and Materials
- 3.4 Contractor's Warranty
- 3.5 Taxes
- 3.6 Permits, Fees, and Notices
- 3.7 Applicable Code Requirements
- 3.8 Superintendent
- 3.9 Schedules Required of Contractor
- 3.10 As-Built Documents
- 3.11 Documents and Samples at Project Site
- 3.12 Shop Drawings, Product Data, Samples, and Environmental Product Declarations
- 3.13 Use of Site and Clean Up
- 3.14 Cutting, Fitting, and Patching
- 3.15 Access to Work
- 3.16 Royalties and Patents
- 3.17 Differing Site Conditions
- 3.18 Concealed, Unforeseen, or Unknown Conditions or Events
- 3.19 Hazardous Materials
- 3.20 Information Available to Bidders
- 3.21 Liability for and Repair of Damaged Work
- 3.22 Indemnification

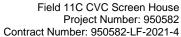
ARTICLE 4. ADMINISTRATION OF THE CONTRACT

- 4.1 Administration of the Contract by University's Representative
- 4.2 Contractor Change Order Requests
- 4.3 Claims
- 4.4 Assertion of Claims
- 4.5 Decision of University's Representative on Claims
- 4.6 Mediation
- 4.7 Litigation and Arbitration
- 4.8 Waiver

ARTICLE 5. SUBCONTRACTORS

- 5.1 Award of Subcontracts and Other Contracts for Portions of the Work
- 5.2 Subcontractual Relations
- 5.3 Contingent Assignment of Subcontracts

ARTICLE 6. CONSTRUCTION BY UNIVERSITY OR BY SEPARATE CONTRACTORS





- 6.1 University's Right to Perform Construction and to Award Separate Contracts
- 6.2 Mutual Responsibility
- 6.3 University's Right to Clean Up

ARTICLE 7. CHANGES IN THE WORK

- 7.1 Changes
- 7.2 Definitions
- 7.3 Change Order Procedures
- 7.4 Field Orders
- 7.5 Variation in Quantity of Unit Price Work
- 7.6 Waiver

ARTICLE 8. CONTRACT TIME

- 8.1 Commencement of the Work
- 8.2 Progress and Completion
- 8.3 Delay
- 8.4 Adjustment of the Contract Time for Delay
- 8.5 Compensation for Delay
- 8.6 Waiver

ARTICLE 9. PAYMENTS AND COMPLETION

- 9.1 Cost Breakdown
- 9.2 Progress Payment
- 9.3 Application For Payment
- 9.4 Certificate For Payment
- 9.5 Deposit of Securities in Lieu of Retention and Deposit of Retention Into Escrow
- 9.6 Beneficial Occupancy
- 9.7 Substantial Completion
- 9.8 Final Completion and Final Payment

ARTICLE 10. PROTECTION OF PERSONS AND PROPERTY

- 10.1 Safety Precautions and Programs
- 10.2 Safety of Persons and Property
- 10.3 Emergencies

ARTICLE 11. INSURANCE AND BONDS

- 11.1 Contractor's Insurance
- 11.2 Builder's Risk Property Insurance
- 11.3 Performance Bond and Payment Bond

ARTICLE 12. UNCOVERING AND CORRECTION OF WORK

- 12.1 Uncovering of Work
- 12.2 Correction of Defective Work and Guarantee to Repair Period

ARTICLE 13. TERMINATION OR SUSPENSION OF THE CONTRACT

- 13.1 Termination by Contractor
- 13.2 Termination by University for Cause
- 13.3 Suspension by University for Convenience
- 13.4 Termination by University for Convenience

ARTICLE 14. STATUTORY AND OTHER REQUIREMENTS

- 14.1 Patient Health Information
- 14.2 Nondiscrimination



- 14.3 Prevailing Wage Rates
- 14.4 Payroll Records
- 14.5 Apprentices
- 14.6 Work Day

ARTICLE 15. MISCELLANEOUS PROVISIONS

- 15.1 Governing Law
- 15.2 Successors and Assigns
- 15.3 Rights and Remedies
- 15.4 Survival
- 15.5 Complete Agreement
- 15.6 Severability of Provisions
- 15.7 University's Right to Audit
- 15.8 Methods of Delivery for Specified Documents
- 15.9 Time of the Essence
- 15.10 Mutual Duty to Mitigate
- 15.11 UC Fair Wage



ARTICLE 1 GENERAL PROVISIONS

1.1 BASIC DEFINITIONS

1.1.1 APPLICABLE CODE REQUIREMENTS

The term "Applicable Code Requirements" means all laws, statutes, the most recent building codes, ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over University, Contractor, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work including without limitation the requirements set forth in Article 3.7.

1.1.2 APPLICATION FOR PAYMENT

The term "Application For Payment" means the submittal from Contractor wherein payment for certain portions of the completed Work is requested in accordance with Article 9.

1.1.3 BENEFICIAL OCCUPANCY

The term "Beneficial Occupancy" means the University's occupancy or use of any part of the Work in accordance with Article 9.

1.1.4 CERTIFICATE FOR PAYMENT

The term "Certificate For Payment" means the form signed by University's Representative attesting to the Contractor's right to receive payment for certain completed portions of the Work in accordance with Article 9.

1.1.5 CHANGE ORDER

See Article 7.2 of the General Conditions.

1.1.6 CLAIM

See Article 4.3 of the General Conditions.

1.1.7 COMPENSABLE DELAY

The term "Compensable Delay" means a delay that entitles the Contractor to an adjustment of the Contract Sum and an adjustment of the Contract Time pursuant to Articles 7 and 8 of the General Conditions.

1.1.8 CONTRACT

The term "Contract" shall have the meaning identified in Article 2 of the Agreement.

1.1.9 CONTRACT DOCUMENTS

The term "Contract Documents" means all documents listed in Article 2 of the Agreement, as modified by Change Order, including but not limited to the Drawings and Specifications.

1.1.10 CONTRACT MILESTONE

The term "Contract Milestone" means any requirement in the Contract Documents that reflects a planned point in time for the start or completion of a portion of the Work measured from i) the date of the Notice to Proceed or ii) the date of another Contract Milestone defined in the Contract Documents, as applicable.

1.1.11 CONTRACT SCHEDULE

The term "Contract Schedule" means the graphical representation of a practical plan, in accordance with the Specifications, to perform and complete the Work within the Contract Time in accordance with Article 3.

1.1.12 CONTRACT SUM

The term "Contract Sum" means the amount of compensation stated in the Agreement for the performance of the Work, as adjusted by Change Order.

1.1.13 CONTRACT TIME

The term "Contract Time" means the number of days set forth in the Agreement, as adjusted by Change Order, within which Contractor must achieve Final Completion.

1.1.14 CONTRACTOR

The term "Contractor" means the person or firm identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number.



1.1.15 CONTRACTOR FEE

See Article 7.3 of the General Conditions.

1.1.16 COST OF EXTRA WORK

See Article 7.3 of the General Conditions.

1.1.17 DAY

The term "day," as used in the Contract Documents, shall mean calendar day, unless otherwise specifically provided.

1.1.18 DEFECTIVE WORK

The term "Defective Work" means work that is unsatisfactory, faulty, omitted, incomplete, deficient, or does not conform to the requirements of the Contract Documents, directives of University's Representative, or the requirements of any inspection, reference standard, test, or approval specified in the Contract Documents.

1.1.19 DRAWINGS

The term "Drawings" means the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams. The Drawings are listed in the List of Drawings.

1.1.20 EXCUSABLE DELAY

The term "Excusable Delay" means a delay that entitles the Contractor to an adjustment of the Contract Time but not an adjustment of the Contract Sum, pursuant to Articles 7 and 8 of the General Conditions.

1.1.21 EXTRA WORK

The term "Extra Work" means Work beyond or in addition to the Work required by the Contract Documents.

1.1.22 FIELD ORDER

See Article 7.2 of the General Conditions.

1.1.23 FINAL COMPLETION

The term "Final Completion" means the date at which the Work has been fully completed in accordance with the requirements of the Contract Documents pursuant to Article 9.8.1 of the General Conditions.

1.1.24 GUARANTEE TO REPAIR PERIOD

See Article 12.2 of the General Conditions.

1.1.25 HAZARDOUS MATERIAL

The term "Hazardous Material" means any substance or material identified as hazardous under any California or federal statute governing handling, disposal and/or cleanup of any such substance or material.

1.1.26 PROJECT

The term "Project" means the Work of the Contract and all other work, labor, equipment, and materials necessary to accomplish the Project . The Project may include construction by University or by Separate Contractors.

1.1.27 PROJECT SITE

The term "Project Site" or "Project site" or "Site" or "site" means lands and facilities upon which the Work pertaining to physical construction operations is performed, including such access and other lands and facilities designated in the Contract Documents for use by Contractor.

1.1.28 SEPARATE CONTRACTOR

The term "Separate Contractor" means a person or firm under separate contract with University performing other work related to the Project.

1.1.29 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

See Article 3.12 of the General Conditions.

1.1.30 SPECIFICATIONS

The term "Specifications" means that portion of the Contract Documents consisting of the written requirements



for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.

1.1.31 SUBCONTRACTOR

The term "Subcontractor" means a person or firm that has a contract with Contractor or with a Subcontractor to perform a portion of the Work. Unless otherwise specifically provided, the term Subcontractor includes Subcontractors of all tiers.

1.1.32 SUBSTANTIAL COMPLETION

See Article 9.7 of the General Conditions.

1.1.33 SUPERINTENDENT

The term "Superintendent" means the person designated by Contractor to represent Contractor at the Project site in accordance with Article 3.

1.1.34 TIER

The term "tier" means the contractual level of a Subcontractor or supplier with respect to Contractor. For example, a first-tier Subcontractor is under subcontract with Contractor, a second-tier Subcontractor is under subcontract with a first-tier Subcontractor, and so on.

1.1.35 UNEXCUSABLE DELAY

The term "Unexcusable Delay" means a delay that does not entitle the Contractor to an adjustment of the Contract Sum and does not entitle the Contractor to an adjustment of the Contract Time.

1.1.36 UNILATERAL CHANGE ORDER.

See Article 7.2 of the General Conditions.

1.1.37 UNIVERSITY

The term "University" means The Regents of the University of California.

1.1.38 UNIVERSITY'S BUILDING OFFICIAL

The term "University's Building Official," or "Certified Building Official," means the individual the University has designated to act in the capacity as the "Building Official" as defined by the California Building Standards Code. The University's Building Official will determine whether the Work complies with Applicable Code Requirements and will determine whether and when it is appropriate to issue a Certificate of Occupancy.

1.1.39 UNIVERSITY'S REPRESENTATIVE

The term "University's Representative" means the person identified as such in the Agreement.

1.1.40 UNIVERSITY'S RESPONSIBLE ADMINISTRATOR

The term "University's Responsible Administrator" means the person, or his or her authorized designee, who is authorized to execute the Agreement, Change Orders, Field Orders, and other applicable Contract Documents on behalf of the University.

1.1.41 WORK

The term "Work" means all construction, services and other requirements of the Contract Documents as modified by Change Order, whether completed or partially completed, and includes all labor, materials, equipment, tools, and services provided or to be provided by Contractor to fulfill Contractor's obligations. The Work may constitute the whole or a part of the Project.

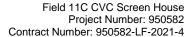
1.2 OWNERSHIP AND USE OF CONTRACT DOCUMENTS

1.2.1 The Contract Documents and all copies thereof furnished to or provided by Contractor are the property of the University and are not to be used on other work.

1.3 INTERPRETATION

1.3.1 The Contract Documents are complementary and what is required by one shall be as binding as if required by all. In the case of conflict between terms of the Contract Documents, the following order of precedence shall apply:

January 6, 2020 6 General Conditions LF:GC Table of Contents





- .1 The Agreement,
- .2 The Supplementary Conditions,
- .3 The General Conditions,
- .4 The Specifications,
- .5 The Drawings.
- 1.3.2 With respect to the Drawings, figured dimensions shall control over scaled measurements and specific details shall control over typical or standard details.
- 1.3.3 With respect to the Contract Documents, Addenda shall govern over other portions of the Contract Documents to the extent specifically noted; subsequent Addenda shall govern over prior Addenda only to the extent specifically noted.
- 1.3.4 Organization of the Specifications into various subdivisions and the arrangement of the Drawings shall not control Contractor in dividing the Work among Subcontractors or in establishing the extent of work to be performed by any trade.
- 1.3.5 Unless otherwise stated in the Contract Documents, technical words and abbreviations contained in the Contract Documents are used in accordance with commonly understood construction industry meanings; and non-technical words and abbreviations are used in accordance with their commonly understood meanings.
- 1.3.6 The Contract Documents may omit modifying words such as "all" and "any," and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement. The use of the word "including," when following any general statement, shall not be construed to limit such statement to specific items or matters set forth immediately following such word or to similar items or matters, whether or not nonlimiting language (such as "without limitation," "but not limited to," or words of similar import) is used with reference thereto, but rather shall be deemed to refer to all other items or matters that could reasonably fall within the broadest possible scope of such general statement.
- 1.3.7 Whenever the context so requires, the use of the singular number shall be deemed to include the plural and vice versa. Each gender shall be deemed to include any other gender, and each shall include corporation, partnership, trust, or other legal entity whenever the context so requires. The captions and headings of the various subdivisions of the Contract Documents are intended only for reference and convenience and in no way define, limit, or prescribe the scope or intent of the Contract Documents or any subdivision thereof.

ARTICLE 2 UNIVERSITY

2.1 INFORMATION AND SERVICES PROVIDED BY UNIVERSITY

- 2.1.1 If required for performance of the Work, as determined by University's Representative, University will make available a survey describing known physical characteristics, boundaries, easements, and utility locations for the Project site.
- 2.1.2 University is not subject to any requirement to obtain or pay for local building permits, inspection fees, plan checking fees, or certain utility fees. Except as otherwise provided in the Contract Documents, University will obtain and pay for any utility permits, demolition permits, easements, and government approvals for the use or occupancy of permanent structures required in connection with the Work.
- 2.1.3 Contractor will be furnished, free of charge, such copies of the Contract Documents as University deems reasonably necessary for execution of the Work.

2.2 ACCESS TO PROJECT SITE

2.2.1 University will provide, no later than the date designated in the Contract Schedule accepted by University's Representative, access to the lands and facilities upon which the Work is to be performed, including such access and other lands and facilities designated in the Contract Documents for use by



Contractor.

2.3 UNIVERSITY'S RIGHT TO STOP THE WORK

2.3.1 If Contractor fails to correct Defective Work as required by Article 12.2 or fails to perform the Work in accordance with the Contract Documents, University or University's Representative may direct Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated by Contractor. Contractor shall not be entitled to any adjustment of Contract Time or Contract Sum as a result of any such order. University and University's Representative have no duty or responsibility to Contractor or any other party to exercise the right to stop the Work.

2.4 UNIVERSITY'S RIGHT TO CARRY OUT THE WORK

2.4.1 If Contractor fails to carry out the Work in accordance with the Contract Documents, fails to provide sufficient labor, materials, equipment, tools, and services to maintain the Contract Schedule, or otherwise fails to comply with any material term of the Contract Documents, and, after receipt of written notice from University, fails within 2 days, excluding Saturdays, Sundays and legal holidays, or within such additional time as the University may specify, to correct such failure, University may, without prejudice to other remedies University may have, correct such failure at Contractor's expense. In such case, University will be entitled to deduct from payments then or thereafter due Contractor the cost of correcting such failure, including without limitation compensation for the additional services and expenses of University's consultants made necessary thereby. If payments then or thereafter due Contractor are not sufficient to cover such amounts, Contractor shall pay the additional amount to University.

2.5 UNIVERSITY'S RIGHT TO REPLACE UNIVERSITY'S REPRESENTATIVE

2.5.1 University may at any time and from time to time, without prior notice to or approval of Contractor, replace University's Representative with a new University's Representative. Upon receipt of notice from University informing Contractor of such replacement and identifying the new University's representative, Contractor shall recognize such person or firm as University's Representative for all purposes under the Contract Documents.

ARTICLE 3 CONTRACTOR

3.1 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

- 3.1.1 Contractor and its Subcontractors shall review and compare each of the Contract Documents with the others and with information furnished or made available by University, and shall promptly report in writing to University's Representative any errors, inconsistencies, or omissions in the Contract Documents or inconsistencies with Applicable Code Requirements observed by Contractor or its Subcontractors.
- 3.1.2 Contractor and its Subcontractors shall take field measurements, verify field conditions, and carefully compare with the Contract Documents such field measurements, conditions, and other information known to Contractor before commencing the Work. Errors, inconsistencies, or omissions discovered at any time shall be promptly reported in writing to University's Representative.
- 3.1.3 If Contractor and its Subcontractors performs any construction activity involving an error, inconsistency, or omission referred to in Articles 3.1.1 and 3.1.2, without giving the notice required in those Articles and obtaining the written consent of University's Representative, Contractor shall be responsible for the resultant losses, including, without limitation, the costs of correcting Defective Work.

3.2 SUPERVISION AND CONSTRUCTION PROCEDURES

- 3.2.1 Contractor shall supervise, coordinate, and direct the Work using Contractor's best skill and attention. Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, procedures, and the coordination of all portions of the Work.
- 3.2.2 Contractor shall be responsible to University for acts and omissions of Contractor's agents, employees, and Subcontractors, and their respective agents and employees.



- 3.2.3 Contractor shall not be relieved of its obligation to perform the Work in accordance with the Contract Documents either by acts or omissions of University or University's Representative in the administration of the Contract, or by tests, inspections, or approvals required or performed by persons or firms other than Contractor.
- 3.2.4 Contractor shall be responsible for inspection of all portions of the Work, including those portions already performed under this Contract, to determine that such portions conform to the requirements of the Contract and are ready to receive subsequent Work.
- 3.2.5 Contractor shall at all times maintain good discipline and order among its employees and Subcontractors. Contractor shall provide competent, fully qualified personnel to perform the Work.

3.3 LABOR AND MATERIALS

3.3.1 Unless otherwise provided in the Contract, Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and Final Completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.4 CONTRACTOR'S WARRANTY

3.4.1 Contractor warrants to University that all materials and equipment used in or incorporated into the Work will be of good quality, new, and free of liens, claims, and security interests of third parties; that the Work will be of good quality and free from defects; and that the Work will conform with the requirements of the Contract. If required by University's Representative, Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

3.5 TAXES

3.5.1 Contractor shall pay all sales, consumer, use, and similar taxes for the Work or portions thereof provided by Contractor.

3.6 PERMITS, FEES, AND NOTICES

3.6.1 Except for the permits and approvals which are to be obtained by University or the requirements with respect to which University is not subject as provided in Article 2.1.2, Contractor shall secure and pay for all permits, approvals, government fees, licenses, and inspections necessary for the proper execution and performance of the Work. Contractor shall deliver to University all original licenses, permits, and approvals obtained by Contractor in connection with the Work prior to the final payment or upon termination of the Contract, whichever is earlier.

3.7 APPLICABLE CODE REQUIREMENTS

- 3.7.1 Contractor shall perform the Work in accordance with the following Applicable Code Requirements:
 - .1 All laws, statutes, the most recent building codes, ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over University, Contractor, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work.
 - .2 All requirements of any insurance company issuing insurance required hereunder.
 - .3 The Federal Occupational Safety and Health Act and all other Applicable Code Requirements relating to safety.
 - .4 Applicable titles in the State of California Code of Regulations.
 - .5 Applicable sections in the State of California Labor Code.
 - .6 All Applicable Code Requirements relating to nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day.

Without limiting the foregoing, Contractor shall comply with the provisions regarding nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day set forth in Article 14.

3.7.2 Contractor shall comply with and give notices required by all Applicable Code Requirements,





including all environmental laws and all notice requirements under the State of California Safe Drinking Water and Enforcement Act of 1986 (State of California Health and Safety Code Section 25249.5 and applicable sections that follow). Contractor shall promptly notify University's Representative in writing if Contractor becomes aware during the performance of the Work that the Contract Documents are at variance with Applicable Code Requirements.

3.7.3 If Contractor performs Work which it knows or should know is contrary to Applicable Code Requirements, without prior notice to University and University's Representative, Contractor shall be responsible for such Work and any resulting damages including, without limitation, the costs of correcting Defective Work.

3.8 SUPERINTENDENT

- 3.8.1 Contractor shall employ a competent Superintendent satisfactory to University who shall be in attendance at the Project site at all times during the performance of the Work. Superintendent shall represent Contractor and communications given to and received from Superintendent shall be binding on Contractor.
- 3.8.2 Contractor shall provide the Key Personnel, in addition to the Superintendent, as named in the Key Personnel Exhibit to this Contract. Substitution or replacement of any named individual requires the written approval of the University's Representative and approval will be at the sole discretion of University. Failure to maintain a Superintendent on the Project site at all times Work is in progress shall be considered a material breach of this Contract, entitling University to terminate the Contract or alternatively, issue a stop Work order until the Superintendent is on the Project site. If, by virtue of issuance of said stop Work order, Contractor fails to complete the Contract on time, Contractor will be assessed Liquidated Damages in accordance with the Agreement.
- 3.8.3 The Superintendent approved for the Project must be able to read, write and verbally communicate in English.
- 3.8.4 The Superintendent may not perform the Work of any trade, pick-up materials, or perform any Work not directly related to the supervision and coordination of the Work at the Project site when Work is in progress.

3.9 SCHEDULES REQUIRED OF CONTRACTOR

- 3.9.1 Contractor shall submit a Preliminary Contract Schedule to University's Representative in the form and within the time limit required by the Specifications. University's Representative will review the Preliminary Contract Schedule with Contractor within the time limit required by the Specifications, or, if no such time period is specified, within a reasonable period of time.
- 3.9.2 Contractor shall submit a Contract Schedule and updated Contract Schedules to University's Representative in the form and within the time limits required by the Specifications and acceptable to University's Representative. University's Representative will determine acceptability of the Contract Schedule and updated Contract Schedules within the time limits required by the Specifications, or if no such time period is specified, within a reasonable period of time. If University's Representative deems the Contract Schedule or updated Contract Schedule unacceptable, it shall specify in writing to Contractor the basis for its objection.
- 3.9.3 The Preliminary Contract Schedule, the Contract Schedule, and updated Contract Schedules shall represent a practical plan to complete the Work within the Contract Time. Schedules showing the Work completed in less than the Contract Time may be acceptable if judged by University's Representative to be practical. Schedules showing the Work completed beyond the Contract Time may be submitted under the following circumstances:
 - .1 If accompanied by a Change Order Request seeking an adjustment of the Contract Time consistent the requirements of paragraph 8.4 for Adjustment of the Contract Time for Delay.; or
 - .2 If the Contract Time has passed, or if it is a practical impossibility to complete the Work within the Contract Time, then the updated Contract Schedule or fragnet schedule shall show completion at the earliest practical date.



University's Representative will timely review the updated Contract Schedule or Fragnet Schedule submitted by Contractor. If University's Representative determines that additional supporting data are necessary to fully evaluate the updated Contract Schedule or Fragnet Schedule, University's Representative will request such additional supporting data in writing. Such data shall be furnished no later than 10 days after the date of such request. University's Representative will render a decision promptly and in any case within 30 days after the later of the receipt of the updated Contract Schedule or Fragnet Schedule or the deadline for furnishing such additional supporting data. Failure of University's Representative to render a decision by the applicable deadline will be deemed a decision denying approval of the updated Contract Schedule or Fragnet Schedule.

Acceptance of any schedule showing completion beyond the Contract Time by University's Representative shall not change the Contract Time and is without prejudice to any right of the University. The Contract Time, not the Contract Schedule, shall control in the determination of liquidated damages payable by Contractor under Article 4 and Article 5 of the Agreement and in the determination of any delay under Article 8 of the General Conditions.

- 3.9.4 If a schedule showing the Work completed in less than the Contract Time is accepted, Contractor shall not be entitled to extensions of the Contract Time for Excusable Delays or Compensable Delays or to adjustments of the Contract Sum for Compensable Delays until such delays extend the Final Completion of the Work beyond the expiration of the Contract Time.
- 3.9.5 Contractor shall prepare and keep current to the reasonable satisfaction of University's Representative, a Submittal Schedule in the form contained in the Exhibits, for each submittal, as required by the Specifications, and that are coordinated with the other activities in the Contract Schedule.
- 3.9.6 The Preliminary Contract Schedule, Contract Schedule, and the Updated Contract Schedules shall meet the following requirements:
 - .1 Schedules must be suitable for monitoring progress of the Work.
 - .2 Schedules must provide necessary data about the timing for University decisions and University furnished items.
 - .3 Schedules must be in sufficient detail to demonstrate adequate planning for the Work.
 - .4 Schedules must represent a practical plan to perform and complete the Work within the Contract Time.
- 3.9.7 University's Representative's review of the form and general content of the Preliminary Contract Schedule, Contract Schedule, and Updated Contract Schedules is for the purpose of determining if the above-listed requirements have been satisfied.
- 3.9.8 Contractor shall plan, develop, supervise, control, and coordinate the performance of the Work so that its progress and the sequence and timing of Work will permit its completion within the Contract Time, any Contract milestones and any Contract phases.
- 3.9.9 In preparing the Preliminary Contract Schedule, the Contract Schedule, and updated Contract Schedules, Contractor shall obtain such information and data from Subcontractors as may be required to develop a reasonable and appropriate schedule for performance of the work and shall provide such information and data to the University's Representative upon request. Contractor shall continuously obtain from Subcontractors information and data about the planning for and progress of the Work and the delivery of equipment, shall coordinate and integrate such information and data into updated Contract Schedules, as appropriate, and shall monitor the progress of the Work and the delivery of equipment.
- 3.9.10 Contractor shall act as the expeditor of potential and actual delays, interruptions, hindrances, or disruptions for its own forces and those forces of Subcontractors, regardless of tier.
- 3.9.11 Contractor shall cooperate with University's Representative in the development of the Contract Schedule and updated Contract Schedules. University's Representative's acceptance of or its review comments about any schedule or scheduling data shall not relieve Contractor from its sole responsibility to plan for, perform, and complete the Work within the Contract Time. Acceptance of or review comments about any schedule shall not transfer responsibility for any schedule to University's Representative or University nor imply their agreement with (1) any assumption upon which such schedule is based or (2) any matter underlying or contained in such schedule. Failure of University's Representative to discover errors or omissions in schedules that it has reviewed, or to inform Contractor that Contractor, Subcontractors, or others are behind schedule, or to direct or enforce procedures for complying with the Contract Schedule shall not relieve



Contractor from its sole responsibility to perform and complete the Work within the Contract Time and shall not be a cause for an adjustment of the Contract Time or the Contract Sum.

3.10 AS-BUILT DOCUMENTS

3.10.1 Contractor shall maintain one set of As-built drawings and specifications, which shall be kept up to date during the Work of the Contract. All changes which are incorporated into the Work which differ from the documents as drawn and written shall be noted on the As-built set. Notations shall reflect the actual materials, equipment and installation methods used for the Work and each revision shall be initialed and dated by Superintendent. Prior to filing of the Notice of Completion each drawing and the specification cover shall be signed by Contractor and dated attesting to the completeness of the information noted therein. As-built Documents shall be turned over to the University's Representative and shall become part of the Record Documents.

3.11 DOCUMENTS AND SAMPLES AT PROJECT SITE

- 3.11.1 Contractor shall maintain the following at the Project site:
 - .1 One as-built copy of the Contract Documents, in good order and marked to record current changes and selections made during construction.
 - .2 The current accepted Contract Schedule.
 - .3 Shop Drawings, Product Data, and Samples.
 - .4 All other required submittals.

These shall be available to University's Representative and shall be delivered to University's Representative for submittal to University upon the earlier of Final Completion or termination of the Contract.

3.12 SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND ENVIRONMENTAL PRODUCT DECLARATIONS

3.12.1 Definitions:

- .1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by Contractor or a Subcontractor to illustrate some portion of the Work.
- .2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Contractor to illustrate or describe materials or equipment for some portion of the Work.
- .3 Samples are physical examples which illustrate materials, equipment, or workmanship and establish standards by which the Work will be judged.
- .4 Environmental Product Declarations are those documents and other submissions required to be furnished by Contractor or a Subcontractor pursuant to California Public Contract Code Section 3500 et seq., the Buy Clean California Act, as further described in Article 3.12.9 below.
- 3.12.2 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate, for those portions of the Work for which submittals are required, how Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.
- 3.12.3 Contractor shall review, approve, and submit to University's Representative Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of University or of Separate Contractors. Submittals made by Contractor which are not required by the Contract Documents may be returned without action by University's Representative.
- 3.12.4 Contractor shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples, or similar submittals until the respective submittal has been reviewed by University's Representative and no exceptions have been taken by University's Representative. Such Work shall be in accordance with approved submittals and the Contract Documents.
- 3.12.5 By approving and submitting Shop Drawings, Product Data, Samples, and similar submittals,





Contractor represents that it has determined or verified materials and field measurements and conditions related thereto, and that it has checked and coordinated the information contained within such submittals with the requirements of the Contract Documents and Shop Drawings for related Work.

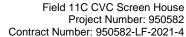
- 3.12.6 If Contractor discovers any conflicts, omissions, or errors in Shop Drawings or other submittals, Contractor shall notify University's Representative and receive instruction before proceeding with the affected Work.
- 3.12.7 Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by University's Representative's review of Shop Drawings, Product Data, Samples, or similar submittals, unless Contractor has specifically informed University's Representative in writing of such deviation at the time of submittal and University's Representative has given written approval of the specific deviation. Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals by University's Representative's review, acceptance, comment, or approval thereof.
- 1.12.8 Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by University's Representative on previous submittals.

1.12.9 Environmental Product Declarations

- 3.12.9.1 Contractor shall comply with California Public Contract Code Section 3500 et seq., the Buy Clean California Act ("BCCA").
- 3.12.9.2 The term "Eligible Materials", as used herein, shall mean the same as defined by the BCCA, and shall include at a minimum the following materials:
- (1) Carbon steel rebar.
- (2) Flat glass.
- (3) Mineral wool board insulation.
- (4) Structural steel.
- 3.12.9.3 Compliance with the BCCA and this Article applies to all Eligible Materials for the Project.
- 3.12.9.4 Contractor shall submit to University a current facility-specific Environmental Product Declaration ("EPD"), Type III, as defined by the International Organization for Standardization ("ISO") standard 14025, or similarly robust life cycle assessment methods that have uniform standards in data collection consistent with ISO standard 14025, industry acceptance, and integrity, for each Eligible Material proposed to be used on the Project.
- 3.12.9.5 Eligible Materials installed on the Project by Contractor must comply with any standards to the extent established in the BCCA or by University, whichever is more stringent. The facility-specific global warming potential for any Eligible Material must not exceed any existing maximum acceptable global warming potential for that material pursuant to the BCCA or by University, whichever is more stringent ("EM Standards").
- 3.12.9.6 Contractor shall not install any Eligible Materials on the Project until Contractor submits a facility-specific EPD for that material which demonstrates that the material complies with any existing EM Standards and this Article. Contractor shall be responsible for any losses, expenses, penalties or damages of any type incurred or sustained by University, including any tear out and replacement of Defective Work, which are caused by Contractor's failure to comply with the requirements of the BCCA or this Article.

3.13 USE OF SITE AND CLEAN UP

- 3.13.1 Contractor shall confine operations at the Project site to areas permitted by law, ordinances, permits, and the Contract Documents. Contractor shall not unreasonably encumber the Project site with materials or equipment.
- 3.13.2 Contractor shall, during performance of the Work, keep the Project site and surrounding area free from the accumulation of excess dirt, waste materials, and rubbish caused by Contractor. Contractor shall





remove all excess dirt, waste material, and rubbish caused by the Contractor; tools; equipment; machinery; and surplus materials from the Project site and surrounding area at the completion of the Work.

3.13.3 Personnel of Contractor and Subcontractors shall not occupy, live upon, or otherwise make use of the Project site during any time that Work is not being performed at the Project site, except as otherwise provided in the Contract Documents.

3.14 CUTTING, FITTING, AND PATCHING

- 3.14.1 Contractor shall do all cutting, fitting, or patching of the Work required to make all parts of the Work come together properly and to allow the Work to receive or be received by work of Separate Contractors shown upon, or reasonably implied by, the Contract Documents.
- 3.14.2 Contractor shall not endanger the Work, the Project, or adjacent property by cutting, digging, or otherwise. Contractor shall not cut or alter the work of any Separate Contractor without the prior consent of University's Representative.

3.15 ACCESS TO WORK

3.15.1 University, University's Representative, their consultants, and other persons authorized by University will at all times have access to the Work wherever it is in preparation or progress. Contractor shall provide safe and proper facilities for such access and for inspection.

3.16 ROYALTIES AND PATENTS

3.16.1 Contractor shall pay all royalties and license fees required for the performance of the Work. Contractor shall defend suits or claims resulting from Contractor's or any Subcontractor's infringement of patent rights and shall Indemnify, defend and hold harmless University and University's Representative from losses on account thereof.

3.17 DIFFERING SITE CONDITIONS

- 3.17.1 If Contractor encounters any of the following conditions at the site, Contractor shall immediately notify the University's Representative in writing of the specific differing conditions before they are disturbed and before any affected Work is performed, and permit investigation of the conditions:
 - .1 Subsurface or latent physical conditions at the site (including Hazardous Materials) which differ materially from those indicated in this Contract, or if not indicated in this Contract, in the Information Available to Bidders; or
 - 2 Unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.
- 3.17.2 Contractor shall be entitled to an adjustment to the Contract Sum and/or Contract Time as the result of extra costs and/or delays resulting from a materially differing site condition, if and only if Contractor fulfills the following conditions:
 - .1 Contractor fully complies with Article 3.17.1; and
 - .2 Contractor fully complies with Article 4 (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).
- 3.17.3 Adjustments to the Contract Sum and/or Contract Time shall be subject to the procedures and limitations set forth in Articles 7 and 8.

3.18 CONCEALED, UNFORESEEN, OR UNKNOWN CONDITIONS OR EVENTS



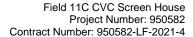
- 3.18.1 Except and only to the extent provided otherwise in Articles 3.17, 7 and 8 of the General Conditions, by signing the Agreement, Contractor agrees:
 - .1 To bear the risk of concealed, unforeseen or unknown conditions or events, if any, which may be encountered in performing the Contract; and
 - .2 That Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of concealed, unforeseen or unknown conditions or events, Contractor understands that, except and only to the extent provided otherwise in Articles 3.17, 7 and 8, concealed, unforeseen or unknown conditions or events shall not excuse Contractor from its obligation to achieve Final Completion of the Work within the Contract Time, and shall not entitle the Contractor to an adjustment of the Contract Sum.

- 3.18.2 If Contractor encounters concealed, unforeseen or unknown conditions or events that may require a change to the design shown in the Contract Documents, Contractor shall immediately notify University's Representative in writing such that University's Representative can determine if a change to the design is required. Contractor shall be liable to University for any extra costs incurred as the result of Contractor's failure to immediately give such notice.
- 3.18.3 If, as the result of concealed, unforeseen or unknown conditions or events, the University issues a Change Order or Field Order that changes the design from the design depicted in the Contract Documents, Contractor shall be entitled, subject to compliance with all the provisions of the Contract, including those set forth in Articles 4, 7 and 8, to an adjustment of the Contract Sum and/or Contract Time, for the cost and delay resulting from implementing the changes to the design. Except as provided in this Article 3.18.3, or as may be expressly provided otherwise in the Contract, there shall be no adjustment of the Contract Sum and/or Contract Time as a result of concealed, unforeseen or unknown conditions or events.
- 3.18.4 Contractor shall, as a condition precedent to any adjustment in Contract Sum or Contract Time under Article 3.18.3, fully comply with Article 4 (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.19 HAZARDOUS MATERIALS

- 3.19.1 The University shall not be responsible for any Hazardous Material brought to the site by the Contractor.
- 3.19.2 If the Contractor: (i) introduces and/or discharges a Hazardous Material onto the site in a manner not specified by the Contract Documents; and/or (ii) disturbs a Hazardous Material identified in the Contract Documents, the Contractor shall hire a qualified remediation contractor at Contractor's sole cost to eliminate the condition as soon as possible. Under no circumstance shall the Contractor perform Work for which it is not qualified. University, in its sole discretion, may require the Contractor to retain at Contractor's cost an independent testing laboratory.
- 3.19.3 If the Contractor encounters a Hazardous Material which may cause foreseeable injury or damage, Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such material or substance (except in an emergency situation); and (iii) notify University (and promptly thereafter confirm such notice in writing)
- 3.19.4 Subject to Contractor's compliance with Article 3.19.3, the University shall verify the presence or absence of the Hazardous Material reported by the Contractor, except as qualified under Section 3.19.1 and 3.19.3, and, in the event such material or substance is found to be present, verify that the levels of the hazardous material are below OSHA Permissible Exposure Levels and below levels which would classify the material as a state of California or federal hazardous waste. When the material falls below such levels, Work in the affected area shall resume upon direction by the University. The Contract Time and Sum shall be extended appropriately as provided in Articles 7 and 8.
- 3.19.5 The University shall indemnify and hold harmless the Contractor from and against claims, damages, losses and expenses, arising from a Hazardous Material on the Project site, if such Hazardous Material: (i) was not shown on the Contract Documents or Information Available to Bidders; (ii) was not brought to the site by Contractor; and (iii) exceeded OSHA Permissible Exposure Levels or levels which would classify the material as a state of California or federal hazardous waste. The indemnity obligation in this Article shall not apply to:





- .1 Claims, damages, losses or expenses arising from the breach of contract, negligence or willful misconduct of Contractor, its suppliers, its Subcontractors of all tiers and/or any persons or entities working under Contractor; and
- .2 Claims, damages, losses or expenses arising from a Hazardous Material subject to Article 3.19.2.

3.19.6 In addition to the requirements in Article 3.22, Contractor shall indemnify and hold harmless the University from and against claims, damages, losses and expenses, arising from a Hazardous Material on the Project site, if such Hazardous Material exceeded OSHA Permissible Exposure Levels or levels which would classify the material as a state of California or federal hazardous waste, and was either i) shown on the Contract Documents or Information Available to Bidders; or (ii) brought to the site by Contractor. Nothing in this paragraph shall obligate the Contractor to indemnify University in the event of the sole negligence of the University, its officers, agents, or employees.

3.20 INFORMATION AVAILABLE TO BIDDERS

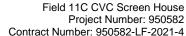
- 3.20.1 Any information provided pursuant to INFORMATION AVAILABLE TO BIDDERS is subject to the following provisions:
 - .1 The information is made available for the convenience of Bidders and is not a part of the Contract.
 - .2 The Contractor may rely on written descriptions of physical conditions included in the information to the extent such reliance is reasonable.
 - .3 Other components of the information, including but not limited to recommendations, may not be relied upon by Contractor. University shall not be responsible for any interpretation of or conclusion drawn from the other components of the information by the Contractor.

3.21 LIABILITY FOR AND REPAIR OF DAMAGED WORK

- 3.21.1 Contractor shall be liable for any and all damages and losses to the Project (whether by fire, theft, vandalism, earthquake or otherwise) prior to University's acceptance of the Project as fully completed except that Contractor shall not be liable for damages and losses to the Project caused by earthquake in excess of magnitude 3.5 on the Richter Scale, tidal wave, or flood, provided that the damages or losses were not caused in whole or in part by the negligent acts or omissions of Contractor, its officers, agents or employees (including all Subcontractors and suppliers of all tiers). As used herein, "flood" shall have the same meaning as in the builder's risk property insurance.
- 3.21.2 Contractor shall promptly repair and replace any Work or materials damaged or destroyed for which the Contractor is liable under Article 3.21.1.

3.22 INDEMNIFICATION

- 3.22.1 Contractor shall indemnify, defend and hold harmless University, University's consultants, University's Representative, University's Representative's consultants, and their respective directors, officers, agents, and employees from and against losses (including without limitation the cost of repairing defective work and remedying the consequences of defective work) arising out of, resulting from, or relating to the following:
 - .1 The failure of Contractor to perform its obligations under the Contract.
 - .2 The inaccuracy of any representation or warranty by Contractor given in accordance with or contained in the Contract Documents.
 - .3 Any claim of damage or loss by any Subcontractor against University arising out of any alleged act or omission of Contractor or any other Subcontractor, or anyone directly or indirectly employed by Contractor or any Subcontractor.
 - .4 Any claim of damage or loss resulting from Hazardous Materials introduced, discharged, or disturbed by Contractor as required per Article 3.19.6.
- 3.22.2 The University shall not be liable or responsible for any accidents, loss, injury (including death) or damages happening or accruing during the term of the performance of the Work herein referred to or in connection therewith, to persons and/or property, and Contractor shall fully indemnify, defend and hold harmless University and protect University from and against the same as provided in paragraph 3.22.1 above.





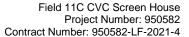
In addition to the liability imposed by law upon the Contractor for damage or injury (including death) to persons or property by reason of the negligence of the Contractor, its officers, agents, employees or Subcontractors, which liability is not impaired or otherwise affected hereby, the Contractor shall defend, indemnify, hold harmless, release and forever discharge the University, its officers, employees, and agents from and against and waive any and all responsibility of same for every expense, liability, or payment by reason of any damage or injury (including death) to persons or property suffered or claimed to have been suffered through any negligent act, omission, or willful misconduct of the Contractor, its officers, agents, employees, or any of its Subcontractors, or anyone directly or indirectly employed by either of them or from the condition of the premises or any part of the premises while in control of the Contractor, its officers, agents, employees, or any of its Subcontractors or anyone directly or indirectly employed by either of them, arising out of the performance of the Work called for by this Contract. Contractor agrees that this indemnity and hold harmless shall apply even in the event of negligence of University, its officers, agents, or employees, regardless of whether such negligence is contributory to any claim, demand, loss, damage, injury, expense, and/or liability; but such indemnity and hold harmless shall not apply (i) in the event of the sole negligence of University, its officers, agents, or employees; or (ii) to the extent that the University shall indemnify and hold harmless the Contractor for Hazardous Materials pursuant to Article 3.19.5.

- 3.22.3 In claims against any person or entity indemnified under this Article 3.22 that are made by an employee of Contractor or any Subcontractor, a person indirectly employed by Contractor or any Subcontractor, or anyone for whose acts Contractor or any Subcontractor may be liable, the indemnification obligation under this Article 3.22 shall not be limited by any limitation on amount or type of damages, compensation, or benefits payable by or for Contractor or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- 3.22.4 The indemnification obligations under this Article 3.22 shall not be limited by any assertion or finding that the person or entity indemnified is liable by reason of a non-delegable duty.
- 3.22.5 Contractor shall indemnify University from and against Losses resulting from any claim of damage made by any Separate Contractor against University arising out of any alleged acts or omissions of Contractor, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.
- 3.22.6 Contractor shall indemnify Separate Contractors from and against Losses arising out of the negligent acts, omissions, or willful misconduct of Contractor, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.

ARTICLE 4 ADMINISTRATION OF THE CONTRACT

4.1 ADMINISTRATION OF THE CONTRACT BY UNIVERSITY'S REPRESENTATIVE

- 4.1.1 University's Representative will provide administration of the Contract as provided in the Contract Documents and will be the representative of University. University's Representative will have authority to act on behalf of University only to the extent provided in the Contract Documents.
- 4.1.2 University's Representative will have the right to visit the Project site at such intervals as deemed appropriate by the University's Representative. However, no actions taken during such Project site visit by University's Representative shall relieve Contractor of its obligations as described in the Contract Documents.
- 4.1.3 University's Representative will not have control over, will not be in charge of, and will not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, since these are solely Contractor's responsibility.
- 4.1.4 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, University and Contractor shall communicate through University's Representative. Except when direct communication has been specifically authorized in writing by University Representative, communications by Contractor with University's consultants and University's Representative's consultants shall be through University's Representative. Communications by University and University's Representative with Subcontractors will be through Contractor. Communications by Contractor and Subcontractors with Separate Contractors shall be through University's Representative. Contractor shall not rely on oral or other non-written communications.





- 4.1.5 Based on University's Representative's Project site visits and evaluations of Contractor's Applications For Payment, University's Representative will recommend amounts, if any, due Contractor and will issue Certificates For Payment in such amounts.
- 4.1.6 University's Representative will have the authority to reject the Work, or any portion thereof, which does not conform to the Contract Documents. University's Representative will have the authority to stop the Work or any portion thereof. Whenever University's Representative considers it necessary or advisable for implementation of the intent of the Contract Documents, University's Representative will have the authority to require additional inspection or testing of the Work in accordance with the Contract Documents, whether or not such Work is fabricated, installed, or completed. However, no authority of University's Representative conferred by the Contract Documents nor any decision made in good faith either to exercise or not exercise such authority, will give rise to a duty or responsibility of University or University's Representative to Contractor, or any person or entity claiming under or through Contractor.
- 4.1.7 University's Representative will have the authority to conduct inspections as provided in the Contract Documents, to take Beneficial Occupancy and to determine the dates of Substantial Completion and Final Completion; will receive for review and approval any records, written warranties, and related documents required by the Contract Documents and assembled by Contractor; and will issue a final Certificate For Payment upon Contractor's compliance with the requirements of the Contract Documents.
- 4.1.8 University's Representative will be, in the first instance, the interpreter of the requirements of the Contract Documents and the judge of performance thereunder by Contractor. Should Contractor discover any conflicts, omissions, or errors in the Contract Documents; have any questions about the interpretation or clarification of the Contract Documents; question whether Work is within the scope of the Contract Documents; or question that Work required is not sufficiently detailed or explained, then, before proceeding with the Work affected, Contractor shall notify University's Representative in writing and request interpretation, clarification, or furnishing of additional detailed instructions. University's Representative's response to questions and requests for interpretations, clarifications, instructions, or decisions will be made with reasonable promptness. Should Contractor proceed with the Work affected before receipt of a response from University's Representative, any portion of the Work which is not done in accordance with University's Representative's interpretations, clarifications, instructions, or decisions shall be removed or replaced and Contractor shall be responsible for all resultant losses.

4.2 CONTRACTOR CHANGE ORDER REQUESTS

- 4.2.1 Contractor may request changes to the Contract Sum and/or Contract Time for Extra Work, materially differing site conditions, or Delays to Final Completion of the Work.
- 4.2.2 Conditions precedent to obtaining an adjustment of the Contract Sum and/or Contract Time, payment of money, or other relief with respect to the Contract Documents, for any other reason, are:
 - .1 Timely submission of a Change Order Request that meets the requirements of Articles 4.2.3.1 and 4.2.3.2; and
 - .2 If requested, timely submission of additional information requested by the University Representative pursuant to Article 4.2.3.3.

4.2.3 Change Order Request:

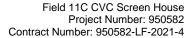
- 4.2.3.1 A Change Order Request will be deemed timely submitted if, and only if, it is submitted within 7 days of the date the Contractor discovers, or reasonably should discover the circumstances giving rise to the Change Order Request, unless additional time is allowed in writing by University's Representative for submission of the Change Order Request, provided that if:
 - .1 the Change Order Request includes compensation sought by a Subcontractor; AND
 - .2 the Contractor requests in writing to the University's Representative, within the 7-day time period, additional time to permit Contractor to conduct an appropriate review of the Subcontractor Change Order Request,



the time period for submission of the actual Change Order Request shall be extended by the number of days specified in writing by the University's Representative.

4.2.3.2 A Change Order Request must state that it is a Change Order Request, state and justify the reason for the request, and specify the amount of any requested adjustment of the Contract Sum, Contract Time, and/or other monetary relief. If the Contractor requests an adjustment to the Contract Sum or other monetary relief, the Contractor shall submit the following with the Change Order Request:

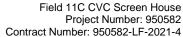
- .1 a completed Cost Proposal in the form contained in the Exhibits meeting the requirements of Article 7: OR
- .2 a partial Cost Proposal and a declaration of what required information is not then known to Contractor. If Contractor failed to submit a completed Cost Proposal with the Change Order Request, Contractor shall submit a completed Cost Proposal meeting the requirements of Article 7 within 7 days of the date the Contractor submitted the Change Order Request unless additional time is allowed by the University's Representative.
- 4.2.3.3 Upon request of University's Representative, Contractor shall submit such additional information as may be requested by University's Representative for the purpose of evaluating the Change Order Request. Such additional information may include:
 - .1 If Contractor seeks an adjustment of the Contract Sum or other monetary relief, actual cost records for any changed or extra costs (including without limitation, payroll records, material and rental invoices and the like), shall be submitted by the deadline established by the University's Representative, who may require such actual cost records to be submitted and reviewed, on a daily basis, by the University's Representative and/or representatives of the University's Representative.
 - .2 If Contractor seeks an adjustment of the Contract Time, written documentation demonstrating Contractor's entitlement to a time extension under Article 8.4, which shall be submitted within 15 days of the date requested. If requested, Contractor may submit a fragnet in support of its request for a time extension. The University may, but is not obligated to, grant a time extension on the basis of a fragnet alone which, by its nature, is not a complete schedule analysis. If deemed appropriate by University Representative, Contractor shall submit a more detailed schedule analysis in support of its request for a time extension.
 - .3 If Contractor seeks an adjustment of the Contract Sum or other monetary relief for delay, written documentation demonstrating Contractor's entitlement to such an adjustment under Article 7.3.9, which shall be submitted within 15 days of the date requested.
 - .4 Any other information requested by the University's Representative for the purpose of evaluating the Change Order Request, which shall be submitted by the deadline established by the University's Representative.
- 4.2.4 University's Representative will make a decision on a Change Order Request, within a reasonable time, after receipt of a Change Order Request. In the event the Change Order Request is submitted pursuant to Article 8.4.1, the University's Representative shall promptly review and accept or reject it within thirty (30) days. A final decision is any decision on a Change Order Request which states that it is final. If University's Representative issues a final decision denying a Change Order Request in whole or in part, Contractor may contest the decision by filing a timely Claim under the procedures specified in Article 4.4.
- 4.2.5 Contractor may file a written demand for a final decision by University's Representative on all or part of any Change Order Request as to which the University's Representative has not previously issued a final decision pursuant to Article 4.2.4; such written demand may not be made earlier than the 30th day after submission of the Change Order Request. Within 30 days of receipt of the demand, University's Representative will issue a final decision on the Change Order Request. The University's Representative's failure to issue a decision within the 30-day period shall be treated as the issuance, on the last day of the 30-day period, of a final decision to deny the Change Order Request in its entirety.





4.3 CLAIMS

- 4.3.1 The term "Claim" means a written demand or assertion by Contractor seeking an adjustment or interpretation of the terms of the Contract Documents, payment of money, extension of time, or other relief with respect to the Contract Documents, including a determination of disputes or matters in question between University and Contractor arising out of or related to the Contract Documents or the performance of the Work. However, the term "Claim" shall not include, and the Claims procedures provided under this Article 4, including but not limited to arbitration, shall not apply to the following:
 - .1 Claims respecting penalties for forfeitures prescribed by statute or regulation which a government agency is specifically authorized to administer, settle, or determine.
 - .2 Claims respecting personal injury, death, reimbursement, or other compensation arising out of or resulting from liability for personal injury or death.
 - .3 Claims by University, except as set forth in Articles 4.5, 4.6, and 4.7.
 - .4 Claims respecting stop payment notices.
- 4.3.2 A Claim arises upon the issuance of a written final decision denying in whole or in part Contractor's Change Order Request pursuant to Articles 4.2.4 and 4.2.5.
- 4.3.3 A Claim must include the following:
 - .1 A statement that it is a Claim and a request for a decision pursuant to Article 4.5.
 - .2 A detailed factual narrative of events fully describing the nature and circumstances giving rise to the Claim, including but not limited to, necessary dates, locations, and items of work affected.
 - .3 A certification, executed by Contractor, that the claim is filed in good faith. The certification must be made on the Claim Certification form, included in the Exhibits to the Contract. The language of the Claim Certification form may not be modified.
 - .4 A certification, executed by each Subcontractor claiming not less than 5% of the total monetary amount sought by the claim, that the subcontractor's portion of the claim is filed in good faith. The certification must be made on the Claim Certification form, included in the Exhibits to the Contract. The language of the Claim Certification form may not be modified.
 - .5 A statement demonstrating that a Change Order Request was timely submitted as required by Article 4.2.3
 - .6 If a Cost Proposal or declaration was required by Article 4.2.3, a statement demonstrating that the Cost Proposal or the declaration was timely submitted as required by Article 4.2.3.
 - .7 A detailed justification for any remedy or relief sought by the Claim, including to the extent applicable, the following:
 - .1 If the Claim involves Extra Work, a detailed cost breakdown of the amounts claimed, including the items specified in Article 7.3.2. An estimate of the costs must be provided even if the costs claimed have not been incurred when the Claim is submitted. To the extent costs have been incurred when the Claim is submitted, the Claim must include actual cost records (including without limitation, payroll records, material and rental invoices and the like) demonstrating that costs claimed have actually been incurred. To the extent costs have not yet been incurred at the time the Claim is submitted, actual cost records must be submitted on a current basis not less than once a month during any periods costs are incurred. A cost record will be considered current if submitted within 30 days of the date the cost reflected in the record is incurred. At the request of the University's Representative, claimed extra costs may be subject to further verification procedures (such as having an inspector verify the performance of alleged Extra Work on a daily basis). The cost breakdown must include an itemization of costs for i) labor including workers' names, classifications, regular hours and overtime hours worked, dates worked, and other pertinent information; ii) materials stored or incorporated in the work including invoices, purchase orders, location of materials either





stored or incorporated into the work, dates materials were transported to the project or incorporated into the work, and other pertinent information; and iii) itemization of machinery and equipment including make, model, hours of use, dates of use and equipment rental rates of any rented equipment.

- .2 If the Claim involves an extension of the Contract Time, written documentation demonstrating the Contractor's entitlement to a time extension under Article 8.4, including the specific dates for which a time extension is sought and the specific reasons for entitlement of a time extension.
- .3 If the Claim involves an adjustment of the Contract Sum for delay, written documentation demonstrating the Contractor's entitlement to such an adjustment under Article 7.3.9, including but not limited to, a detailed time impact analysis of the Contract Schedule. The Contract Schedule must demonstrate Contractor's entitlement to such an adjustment under Article 7.3.9.

4.4 ASSERTION OF CLAIMS

- 4.4.1 Claims by Contractor shall be first submitted to University's Representative for decision.
- 4.4.2 Notwithstanding the making of any Claim or the existence of any dispute regarding any Claim, unless otherwise directed by University's Representative, Contractor shall not cause any delay, cessation, or termination in or of Contractor's performance of the Work, but shall diligently proceed with performance of the Work in accordance with the Contract Documents.
- 4.4.3 Contractor shall submit a Claim in writing, together with all supporting data specified in Article4.3.3, to University's Representative as soon as possible but not later than 30 days after the date the Claim arises under Article 4.3.2, provided that after written notification to the University's Representative within such time period, the time period for submission of the Claim shall be extended by the number of days specified in writing by the University's Representative where the Claim includes compensation sought by a Subcontractor and the Contractor requests an extension of time to permit it to discharge its responsibilities to conduct an appropriate review of the Subcontractor claim.
- 4.4.4 Strict compliance with the requirements of Articles 4.2, 4.3 and 4.4 are conditions precedent to Contractor's right to an informal conference to meet and confer to resolve a Claim, mediate a Claim, or arbitrate or litigate a Claim. Contractor specifically agrees to assert no Claims via an informal conference, mediation, arbitration or litigation unless there has been strict compliance with Articles 4.2, 4.3, and 4.4. The failure of Contractor to strictly comply with the requirements of Articles 4.2, 4.3 and 4.4 constitutes a failure by Contractor to exhaust its administrative remedies with the University, thereby denying any court or arbitration panel of jurisdiction to adjudicate the Claim.

4.5 DECISION OF UNIVERSITY'S REPRESENTATIVE ON CLAIMS

4.5.1 University's Representative will timely review Claims submitted by Contractor. If University's Representative determines that additional supporting data are necessary to fully evaluate a Claim, University's Representative will request such additional supporting data in writing. Such data shall be furnished no later than 10 days after the date of such request. University's Representative will render a decision promptly and in any case within 30 days after the later of the receipt of the Claim or the deadline for furnishing such additional supporting data; provided that, if the amount of the Claim is in excess of \$50,000, the aforesaid 30-day period shall be 45 days. Failure of University's Representative to render a decision by the applicable deadline will be deemed a decision denying the Claim on the date of the deadline, unless, upon receipt of a Claim, Contractor and University mutually agree to extend the time periods provided herein, or unless otherwise extended by law. The decision of University's Representative will be final and binding unless appealed in accordance with Articles 4.5.2, 4.6, and 4.7. The University's Representative's decision on a Claim or dispute will include a written statement both identifying all disputed and undisputed portions of the Claim and substantially including the following:

"This is a decision under Article 4.5 of the General Conditions of your contract. If you are dissatisfied with the decision, and if you complied with the procedural requirements for



asserting claims specified in Article 4 of the General Conditions of your contract, you may have the right to demand in writing an informal conference to meet and confer for settlement of any remaining issues in dispute, following which, if still dissatisfied, you may demand in writing a further resolution via nonbinding mediation, after which you have the right to arbitrate or litigate this decision. If you fail to take appropriate action within 30 days of the date of this decision, the decision shall become final and binding and not subject to further appeal."

4.5.2 If either Contractor or University disputes University's Representative's decision on a Claim, then, within 30 days after the decision of University's Representative on the Claim, or, if no decision has been issued, within 30 days from the date of the applicable deadline in Article 4.5.1 for University Representative to render a decision, such party (the "Disputing Party") must provide written notice demanding an informal conference to meet and confer. University shall schedule the conference within 30 days upon receipt of the notice demanding an informal conference. The parties will attempt in good faith to resolve any controversy or Claim arising out of or relating to this Contract by negotiation at the conference.

4.6 MEDIATION

4.6.1 Within 10 business days following the informal conference to meet and confer stated in Article 4.5.2, if the Claim or any portion of the Claim remains in dispute, the University shall provide a written statement identifying the disputed and undisputed portions of the Claim. Within 30 days of receipt of the statement, if either Contractor or University disputes any portion of the Claim, then the Disputing Party must provide written notice to the non-disputing party demanding non-binding mediation. The Contractor and the University shall share the associated costs equally and shall mutually agree to a mediator within 10 business days. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim, with each party bearing the fees and costs of its respective mediator. Mediation shall include, but not be limited to, neutral evaluation, a dispute review board, or other negotiation or evaluation through an independent third party or board. The Contractor and the University may mutually agree to waive any individual mediation in writing and proceed to arbitration or litigation pursuant to this Contract.

4.7 LITIGATION AND ARBITRATION

- 4.7.1 Either party may provide a written notice of its election to arbitrate or provide written notice of its election to litigate the Claim within 30 days after the mediation pursuant to Article 4.6.1, or, if the parties mutually agreed in writing to waive mediation, within 30 days after the agreement is signed by both parties.
- 4.7.2 If a notice of election to arbitrate or litigate is not given by either party within 30 days pursuant to Article 4.7.1, University's Representative's decision on the Claim will be final and binding and not subject to appeal or challenge.
- 4.7.3 If the Disputing Party gives timely notice of its election to arbitrate the University's Representative's decision on a Claim. Disputing Party shall have the right, within 120 days after a Notice of Completion, or a Notice of Cessation, as applicable, is filed for the Contract, to make a demand for arbitration in accordance with Article 4.7. Failure to perfect a Claim for which a timely election to arbitrate has been made by the timely filing of a demand for arbitration and timely payment of all applicable and required fees to the American Arbitration Association ("AAA") shall result in the University's Representative's decision on said Claim becoming final and binding and not subject to appeal or challenge. If the Disputing Party makes a timely demand for arbitration, and the amount of the Claim in question, when combined with all other Claims, if any, which are the subject of previously filed demands for arbitration that have not been resolved by settlement or arbitration award, is \$100,000 or more, then the other party may elect to litigate all such Claims by filing a written notice with the "AAA" within 30 days after its receipt of notice from the AAA of the Disputing Party's demand for arbitration of the Claim that raises the total amount of Claims subject to arbitration to \$100,000 or more. If the other party fails to give notice of its election to litigate within such 30-day period, it shall be deemed to have consented to arbitration and waived the right to litigate. If after commencement of arbitration the amount of unresolved Claims in arbitration are allowed to be increased to \$100,000 or more, through an AAAallowed amendment or otherwise, either party may elect to litigate within 30 days following the date that the electing party first receives written notification from the AAA that total Claims in arbitration equal or exceed \$100,000. If neither party gives notice of its election to litigate within such 30-day period as applicable, then



both parties shall be deemed to have consented to arbitration and waived the right to litigate.

- 4.7.4 A demand for arbitration pursuant to Article 4.7.3 shall include a copy of the Claim presented to University's Representative pursuant to Article 4.4, a copy of the decision of University's Representative pursuant to Article 4.5, if any, a copy of the University's written statement identifying the portion of the Claim that remained in dispute following the informal conference pursuant to Article 4.6.1, and a summary of the remaining portions of the Claim in dispute. The demand shall state the amount in controversy, if any, and state the remedy sought. The demand shall identify the University's Responsible Administrator as the representative of the responding party and the Office of the General Counsel as counsel for the responding party. The demand shall be filed with the AAA and shall not be deemed to have been made until all applicable fees have been paid to the AAA by the demanding party. Copies of the demand and attachments shall be sent to University's Responsible Administrator as the representative of the responding party and the University's Office of General Counsel as attorney for the responding party, at the addresses set forth in the Project Directory, at the time the demand for arbitration is initiated with the AAA.
- 4.7.5 Except as modified by this Article 4.7, arbitration shall be initiated and 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 AAA rules:
 - .1 Civil discovery shall be permitted for the production of documents and taking of depositions. Other discovery may be permitted at 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. University's Representative and University's consultants will have the same rights in any arbitration proceeding as are afforded by the AAA rules to Contractor and University.
 - .3 Contractor's sureties shall be bound by any arbitration award and may join in any arbitration proceeding.
 - .4 Except as provided in Articles 4.7.5.2. and 4.7.5.3 above, no Subcontractor or other person shall have a right or obligation to join in or be a party to any arbitration proceeding provided for in this Article 4 either directly, by joinder, by consolidation or actions, by counterclaim or crossclaim, or otherwise without the express written consent of University, Contractor, and the joining party.
 - .5 If more than one demand for arbitration is made by a party with respect to Claims referred to University's Representative, all such Claims shall be consolidated into a single arbitration unless the parties otherwise agree in writing.
 - .6 If total Claims are less than \$50,000, the AAA expedited procedures as modified by this Article 4 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, either by agreement or by failure to elect litigation the controversy shall be heard by a panel of three arbitrators, one of which shall be an attorney.
 - .7 No arbitrator shall be appointed and no discovery may be commenced prior to the date of Final Completion unless University and Contractor otherwise agree.
 - .8 The exclusive forum for determining arbitrability shall be the Superior Court of the State of California. The AAA shall not submit to any arbitrator any matter concerning the arbitrability of the dispute if the arbitrability is contested.
 - If the expedited procedures of the AAA are applicable, the AAA shall submit simultaneously to each party an identical list of 7 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 the AAA within 10 days from the date of receipt.
 - .10 Except as provided herein, the arbitration shall be conducted and enforced under California law, including the California Arbitration Act (California Code of Civil Procedure section 1280 and following). The Federal Arbitration Act shall not apply to the arbitration.
- 4.7.6 Unless University and Contractor otherwise agree in writing, the arbitration decision shall be binding upon the parties, made under and in accordance with the laws of the State of California, supported by substantial evidence, and in writing. If the total of all Claims or cross Claims submitted to arbitration is in



UG RIVERSIDE Planning, Design & Construction

Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4

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, vacation, 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.

4.7.7 University may, but is not required, to assert as a counterclaim any matter arising out of the claims asserted by Contractor in the arbitration. University's failure to assert any such counterclaim in an arbitration shall be without prejudice to the University's right to assert the counterclaim in litigation or other proceeding.

4.7.8 Any litigation shall be filed in the Superior Court of the State of California for the County in which the contract was to be performed.

4.8 WAIVER

- 4.8.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 4 in connection with any Claim shall not constitute a waiver of, and shall not preclude the University or University's Representative from enforcing such requirements in connection with any other Claims.
- 4.8.2 The Contractor agrees and understands that no oral approval, either express or implied, of any Claim shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 5 SUBCONTRACTORS

5.1 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

- 5.1.1 Unless otherwise stated in the Contract Documents, Contractor shall submit in writing, prior to entering into subcontract agreements, the names and addresses of all Subcontractors proposed for the Work that were not previously listed in Contractor's Bid.
- 5.1.2 Any Subcontractor may be disqualified if University or University's Representative determines that such Subcontractor fails to meet the requirements of the Contract Documents or for any other reason.
- 5.1.3 In accordance with the Subletting and Subcontracting Fair Practices Act, nothing herein shall be deemed to entitle Contractor, without the approval of University, to substitute other subcontractors for those named in Contractor's List of Subcontractors and List of Changes in Subcontractors Due to Alternates contained in the completed Bid Form; and, except with such approval, no such substitution shall be made.
- 5.1.4 Except as hereinafter provided, any increase in the cost of the Work resulting from the replacement or substitution of a Subcontractor, as required by University or University's Representative pursuant to Article 5.1.1 shall be borne solely by Contractor and Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time on account of such replacement or substitution.

5.2 SUBCONTRACTUAL RELATIONS

- 5.2.1 Any part of the Work performed for Contractor by a first-tier Subcontractor shall be pursuant to a written subcontract. Each such subcontract shall require the Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to Contractor by the terms of the Contract Documents, to assume toward Contractor all the obligations and responsibilities which Contractor assumes towards University by the Contract Documents, and to perform such portion of the Work in accordance with the Contract Documents. Each such subcontract shall preserve and protect the rights of University under the Contract Documents, with respect to the Work to be performed by Subcontractor, so that subcontracting thereof will not prejudice such rights. Contractor shall cause each such subcontract to expressly include the following requirements:
 - .1 Subcontractor waives all rights that Subcontractor may have against University for damages caused by fire or other perils covered by builder's risk property insurance carried by Contractor or University, except for such rights Subcontractor may have to the proceeds of such insurance held by University under Article 11.
 - .2 University and entities and agencies designated by University will have access to



- and the right to audit and the right to copy at University's cost all of Subcontractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Subcontractor shall preserve all such records and other items for a period of at least 3 years after Final Completion.
- .3 Subcontractor recognizes the rights of University under Article 5.3, Contingent Assignment of Subcontracts, and agrees, upon notice from University that University has elected to accept said assignment and to retain Subcontractor pursuant to the terms of the subcontract, to complete the unperformed obligations under the subcontract and, if requested by University, to execute a written agreement confirming that Subcontractor is bound to University under the terms of the subcontract.
- 5.2.2 Upon the request of University, Contractor shall promptly furnish to University a true, complete, and executed copy of any subcontract.
- 5.2.3 Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and University, except when, and only to the extent that, University elects to accept the assignment of the subcontract with such Subcontractor pursuant to Article 5.3, Contingent Assignment of Subcontracts.

5.3 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

5.3.1 Contractor hereby assigns to University all its interest in first-tier subcontracts now or hereafter entered into by Contractor for performance of any part of the Work. The assignment will be effective upon acceptance by University in writing and only as to those subcontracts which University designates in writing. University may accept said assignment at any time during the course of the Work and prior to Final Completion in the event of a suspension or termination of Contractor's rights under the Contract Documents. Such assignment is part of the consideration to University for entering into the Contract with Contractor and may not be withdrawn prior to Final Completion.

ARTICLE 6 CONSTRUCTION BY UNIVERSITY OR BY SEPARATE CONTRACTORS

6.1 UNIVERSITY'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

- 6.1.1 University reserves the right to award separate contracts for, or to perform with its own forces, construction or operations related to the Work or other construction or operations at or affecting the Project site, including portions of the Work which have been deleted by Change Order. Contractor shall cooperate with University's forces and Separate Contractors.
- 6.1.2 University will provide coordination of the activities of University's forces and of each Separate Contractor with the Work of Contractor. Contractor shall participate with University and Separate Contractors in joint review of construction schedules and Project requirements when directed to do so. Contractor shall make necessary revisions to the Contract Schedule after such joint review.

6.2 MUTUAL RESPONSIBILITY

- 6.2.1 Contractor shall afford University and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities. Contractor shall connect, schedule, and coordinate its construction and operations with the construction and operations of University and Separate Contractors as required by the Contract Documents.
- 6.2.2 If a portion of the Work is dependent upon the proper execution or results of other construction or operations by University or Separate Contractors, Contractor shall inspect such other construction or operations before proceeding with that portion of the Work. Contractor shall promptly report to University's Representative apparent discrepancies or defects which render the other construction or operations unsuitable to receive the Work. Unless otherwise directed by University's Representative, Contractor shall not proceed with the portion of the Work affected until apparent discrepancies or defects have been corrected. Failure of Contractor to so report within a reasonable time after discovering such discrepancies or defects



shall constitute an acknowledgment that the other construction or operations by University or Separate Contractors is suitable to receive the Work, except as to defects not then reasonably discoverable.

6.3 UNIVERSITY'S RIGHT TO CLEAN UP

6.3.1 If a dispute arises between Contractor and Separate Contractors as to the responsibility under their respective contracts for maintaining the Project site and surrounding areas free from waste materials and rubbish, University may clean up and allocate the cost between those firms it deems to be responsible.

ARTICLE 7 CHANGES IN THE WORK

7.1 CHANGES

- 7.1.1 University may, from time to time, order or authorize additions, deletions, and other changes in the Work by Change Order or Field Order without invalidating the Contract and without notice to sureties. Absence of such notice shall not relieve such sureties of any of their obligations to University.
- 7.1.2 Contractor may request a Change Order under the procedures specified in Article 4.2.
- 7.1.3 A Field Order may be issued by University, does not require the agreement of Contractor, and shall be valid with or without the signature of Contractor.
- 7.1.4 Contractor shall proceed promptly with any changes in the Work, unless otherwise provided in the relevant Change Order or Field Order.

7.2 DEFINITIONS

- 7.2.1 A Change Order is a Contract Document (as shown in the Exhibits) which has been signed by both University and Contractor, and states their agreement, as applicable, to the following:
 - .1 A change in the Work, if any.
 - .2 The amount of an adjustment of the Contract Sum, if any.
 - .3 The amount of an adjustment of the Contract Time, if any.
 - .4 A modification to any other Contract term or condition.
- 7.2.2 A Unilateral Change Order may be issued by University, without the Contractor' signature, where the University determines that a change in the Work requires an adjustment of the Contract Sum or Contract Time, even though no agreement has been reached between University and Contractor with regard to such change in the Work.
- 7.2.3 A Field Order (as shown in the Exhibits) is a Contract Document issued by the University that orders the Contractor to perform Work. A Field Order may, but need not, constitute a change in the Work and may, but need not, entitle Contractor to an adjustment of the Contract Sum or Contract Time.

7.3 CHANGE ORDER PROCEDURES

- 7.3.1 Contractor shall provide a Change Order Request and Cost Proposal pursuant to Article 4.2 and this Article 7.3 of the General Conditions. Adjustments of the Contract Sum resulting from Extra Work and Deductive Work shall be determined using one of the methods described in this Article 7.3. Adjustments of the Contract Time shall be subject to the provisions in Article 8. Contractor's obligation to provide Cost Proposals shall be subject to the following:
 - .1 The obligation of Contractor to provide Cost Proposals is not Extra Work, and shall not entitle the Contractor to an adjustment of the Contract Sum or Contract Time.
 - The failure of Contractor to timely provide a Cost Proposal pursuant to Article 4.2 and this Article 7.3.1 is a material breach of the Contract. Contractor shall be responsible for any delay in implementing a change for which Contractor failed to timely provide a Cost Proposal consistent with the requirements of Article 4.2 and this Article 7.3.1.
- 7.3.2 The term "Cost of Extra Work" as used in this Article 7.3 shall mean actual costs incurred or to be incurred by Contractor and each Subcontractor regardless of tier involved, to the extent not otherwise



disallowed under Article 7.3.3, and shall be limited to the following (to the extent the Contractor demonstrates that the costs are both reasonable and actually incurred, if such costs have been incurred):

- .1 Straight-time wages or salaries for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of the performance of the Extra Work.2 Fringe Benefits and Payroll Taxes for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of the performance of the Extra Work.
- .3 Overtime wages or salaries, specifically authorized in writing by University's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of the performance of the Extra Work.
- .4 Fringe Benefits and Payroll Taxes for overtime Work specifically authorized in writing by University's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of the performance of the Extra Work.
- .5 Costs of materials and consumable items which are furnished and incorporated into the Extra Work, as approved by University's Representative. Such costs shall be charged at the lowest price available to the Contractor but in no event shall such costs exceed competitive costs obtainable from other subcontractors, suppliers, manufacturers, and distributors in the area of the Project site. All discounts, rebates, and refunds and all returns from sale of surplus materials and consumable items shall accrue to University and Contractor shall make provisions so that they may be obtained.
- .6 Sales taxes on the costs of materials and consumable items which are incorporated into and used in the performance of the Extra Work pursuant to Article 7.3.2.5 above.
- .7 Rental charges for necessary machinery and equipment, whether owned or hired, as authorized in writing by University's Representative, exclusive of hand tools, used directly in the performance of the Extra Work. Such rental charges shall not exceed the current Equipment Rental Rates published by the California Department of Transportation for the area in which the work is performed. Such rental rates are found at http://www.dot.ca.gov/hq/construc/equipmnt.html. Contractor shall attach a copy of said schedule to the Cost Proposal. The charges for any machinery and equipment shall cease when the use thereof is no longer necessary for the Extra Work.
- .8 Additional costs of royalties and permits due to the performance of the Extra Work.
- .9 The cost for Insurance and Bonds shall not exceed 2% of items .1 through .8 above.

University and Contractor may agree upon rates to be charged for any of the items listed in this Article 7.3.2. Such agreed upon rates shall be subject to audit pursuant to Article 15.7. Contractor shall promptly refund to University any amounts (including associated mark-ups) in excess of the actual costs of such items.

7.3.3 Cost of Extra Work shall not include any of the following:

- .1 Supervision
- .2 Superintendent(s).
- .3 Assistant Superintendent(s).
- .4 Project Engineer(s).
- .5 Project Manager(s).
- .6 Scheduler(s).
- .7 Estimator(s).
- .8 Small tools (Replacement value does not exceed \$300).
- .9 Office expenses including staff, materials and supplies.
- .10 On-site or off-site trailer and storage rental and expenses.
- .11 Site fencing.
- .12 Utilities including gas, electric, sewer, water, telephone, facsimile, copier equipment.

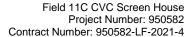




- .13 Data processing personnel and equipment.
- .14 Federal, state, or local business income and franchise taxes.
- .15 Overhead and Profit.
- .16 Costs and expenses of any kind or item not specifically and expressly included in Article 7.3.2.
- 7.3.4 The term "Contractor Fee" shall mean the full amount of compensation, both direct and indirect (including without limitation all overhead and profit), to be paid to Contractor for its own Work and the Work of all Subcontractors, for all costs and expenses not included in the Cost of Extra Work, whether or not such costs and expenses are specifically referred to in Article 7.3.3. The Contractor Fee shall not be compounded.

The Contractor Fee shall be computed as follows:

- .1 Fifteen percent (15%) of the cost of that portion of the Extra Work to be performed by the prime contractor with its own forces.
- .2 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a Subcontractor with its own forces, plus 5% for the prime contractor. Total combined Contractor and Subcontractor fee shall not exceed 20%.
- .3 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a sub-subcontractor with its own forces, or any lower tier of Subcontractor, plus 5% for the Subcontractor, plus 5% for the prime contractor. Total combined Contractor, Subcontractor and all sub-subcontractor fee shall not exceed 25%.
- 7.3.5 Compensation for Extra Work shall be computed on the basis of one or more of the following:
 - .1 Where the Work involved is covered by Unit Prices contained in the Contract Documents, by application of the Unit Prices to the quantities of the items involved.
 - .2 Where Unit Prices are not applicable, a mutually agreed upon lump sum supported by a Cost Proposal pursuant to 7.3.1.
 - .3 Where Contractor and University cannot agree upon a lump sum, by Cost of Extra Work plus Contractor Fee applicable to such Extra Work.
- 7.3.6 As a condition to Contractor's right to an adjustment of the Contract Sum pursuant to Article 7.3.5.3, Contractor must keep daily detailed and accurate records itemizing each element of cost and shall provide substantiating records and documentation, including time cards and invoices. Such records and documentation shall be submitted to University's Representative on a daily basis.
- 7.3.7 For Work to be deleted by Change Order, the reduction of the Contract Sum shall be computed on the basis of one or more of the following:
 - .1 Unit Prices stated in the Contract Documents.
 - .2 Where Unit Prices are not applicable, a lump sum agreed upon by University and Contractor, based upon the actual costs which would have been incurred in performing the deleted portions of the Work as calculated in accordance with Articles 7.3.2 and 7.3.3, supported by a Cost Proposal pursuant to Article 7.3.1.
- 7.3.8 If any one Change involves both Extra Work and Deleted Work in the same portion of the Work, a Contractor fee will not be allowed if the deductive cost exceeds the additive cost. If the additive cost exceeds the deductive cost, a Contractor Fee will be allowed only on the difference between the two amounts.
- 7.3.9 The Contract Sum will be adjusted for a delay if, and only if, Contractor demonstrates that all of the following three conditions are met:
 - .1 <u>Condition Number One</u>: The delay results in an extension of the Contract Time pursuant to Article 8.4.1.
 - .2 <u>Condition Number Two</u>: The delay is caused solely by one or more of the following:
 - .1 An error or omission in the Contract Documents; or
 - .2 The University's decision to change the scope of the Work, where such decision is not the result of any default or





- misconduct of the Contractor; or
- .3 The University's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Contractor; or
- .4 The failure of the University (including the University acting through its consultants, Design Professionals, Separate Contractors or the University's Representative) to perform any Contract obligation where the failure to so perform is not the result of any default or misconduct of the Contractor.
- .5 A materially differing site condition pursuant to Article 3.17.
- .3 <u>Condition Number Three</u>: The delay is not concurrent with a delay caused by an event other than those listed in Article 7.3.9.2.
- 7.3.10 For each day of delay that meets all three conditions prescribed in Article 7.3.9 the Contract Sum will be adjusted by the daily rate included in the Agreement and specifically identified as the rate to be paid to Contractor for Compensable Delays. Pursuant to Article 9.7.4, said daily rate shall not apply to delays occurring after Substantial Completion.
- 7.3.11 Except as provided in Articles 7 and 8, Contractor shall have no claim for damage or compensation for any delay, interruption, hindrance, or disruption.
- 7.3.12 If for any reason one or more of the conditions prescribed in Article 7.3.9 is held legally unenforceable, the remaining conditions must be met as a condition to obtaining an adjustment of the Contract Time under Article 7.3.10.

7.4 FIELD ORDERS

- 7.4.1 Field Orders issued by the University Representative shall be subject to the following:
 - .1 A Field Order may state that it does or does not constitute a change in the Work.
 - .2 If the Field Order states that it does not constitute a change in the Work and the Contractor asserts that the Field Order constitutes a change in the Work, in order to obtain an adjustment of the Contract Sum or Contract Time for the Work encompassed by the Field Order, Contractor must follow all procedures set forth in Article 4, starting with the requirement of submitting a timely Change Order Request within 7 days of Contractor's receipt of the Field Order; failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time arising from performance of the Work described in the Field Order.
 - .3 If the Field Order states that it does constitute a change in the Work, the Work described in the Field Order shall be considered Extra Work and the Contractor shall be entitled to an adjustment of the Contract Sum and Contract Time, calculated under and subject to Contractor's compliance with the procedures for verifying and substantiating costs and delays in Articles 7 and 8.
 - .4 In addition, if the Field Order states that it does constitute a change in the Work, the Field Order may or may not contain University's estimate of adjustment of Contract Sum and/or Contract Time. If the Field Order contains an estimate of adjustment of Contract Sum or Contract Time, the Field Order is subject to the following:
 - .1 The Contractor shall not exceed the University's estimate of adjustment to Contract Sum or Contract Time without prior written notification to the University's Representative.
 - .2 If the Contractor asserts that the change in the Work encompassed by the Field Order may entitle Contractor to an adjustment of Contract Sum or Contract Time in excess of the University's estimate, in order not to be bound by University's estimate Contractor must follow all procedures set forth in Article 4, starting with the requirement of submitting a timely Change Order Request within 7 days of



Contractor's receipt of the Field Order; failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time, in excess of the University's estimate, arising from performance of the Work described in the Field Order.

7.4.2 Upon receipt of a Field Order, Contractor shall promptly proceed to perform the Work as ordered in the Field Order notwithstanding any disagreement by the Contractor concerning whether the Work is extra.

7.5 VARIATION IN QUANTITY OF UNIT PRICE WORK

7.5.1 University has the right to increase or decrease the quantity of any Unit price item for which an Estimated Quantity is stated in the Bid Form.

7.6 WAIVER

- 7.6.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 7, including without limitation the requirements in Articles 7.3.6, 7.3.8, 7.3.9, 7.3.10, 7.3.11, or 7.3.12 in connection with any adjustment of the Contract Sum, will not constitute a waiver of, and will not preclude the University or University's Representative from enforcing, such requirements in connection with any other adjustments of the Contract Sum.
- 7.6.2 The Contractor agrees and understands that no oral approval, either express or implied, of any adjustment of the Contract Sum by University or its agents shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 8 CONTRACT TIME

8.1 COMMENCEMENT OF THE WORK

8.1.1 The date of commencement of the Work shall be set forth in the Notice To Proceed. The date of commencement of the Work shall not be postponed by the failure of Contractor, Subcontractors, or of persons or firms for whom Contractor is responsible, to act.

8.2 PROGRESS AND COMPLETION

- 8.2.1 By signing the Agreement:
 - .1 Contractor represents to University that the Contract Time is reasonable for performing the Work and that Contractor is able to perform the Work within the Contract Time.
 - .2 Contractor agrees that University is purchasing the right to have the Contractor present on the Project site for the full duration of the Contract Time, even if Contractor could finish the Contract in less than the Contract Time.
- 8.2.2 Contractor shall not, except by agreement or instruction of University in writing, commence operations on the Project site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by Contractor. The dates of commencement and Final Completion of the Work shall not be changed by the effective date of such insurance.
- 8.2.3 Contractor shall proceed expeditiously with adequate forces and shall achieve full completion of the Work within the Contract Time. If University's Representative determines and notifies Contractor that Contractor's progress is such that Contractor will not achieve full completion of the Work within the Contract Time, Contractor shall immediately and at no additional cost to University, take all measures necessary, including working such overtime, additional shifts, Sundays, or holidays as may be required to ensure that the Work is fully completed within the Contract Time. Upon receipt of such notice from University's representative, Contractor shall immediately notify University's Representative of all measures to be taken to ensure full completion of the Work within the Contract Time. Contractor shall reimburse University for any extra costs or expenses (including the reasonable value of any services provided by University's employees) incurred by University as the result of such measures.



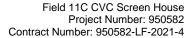
8.3 DELAY

- 8.3.1 Except and only to the extent provided otherwise in Articles 7 and 8, by signing the Agreement, Contractor agrees:
 - .1 to bear the risk of delays to the Work; and
 - .2 that Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of delays to the Work, Contractor understands that, except and only to the extent provided otherwise in Articles 7 and 8, the occurrence of events that delay the Work shall not excuse Contractor from its obligation to achieve Final Completion of the Work within the Contract Time, and shall not entitle the Contractor to an adjustment of the Contract Sum.

8.4 ADJUSTMENT OF THE CONTRACT TIME FOR DELAY

- 8.4.1 Subject to Article 8.4.2, the Contract Time will be extended for each day of delay for which Contractor demonstrates that all of the following four conditions have been met; a time extension will not be granted for any day of delay for which Contractor fails to demonstrate compliance with the four conditions:
 - .1 <u>Condition Number One</u>: The delay is critical. A delay is critical if and only to the extent it delays a work activity that cannot be delayed without delaying Final Completion of the Work beyond the Contract Time. Under this Article 8.4.1.2, if the Contract Schedule shows Final Completion of the Work before expiration of the Contract Time, a delay is critical if and only to the extent the delay pushes Final Completion of the Work to a date that is beyond the Contract Time.
 - .2 <u>Condition Number Two</u>: Within 7 days of the date the Contractor discovers or reasonably should discover an act, error, omission or unforeseen condition or event causing the delay is likely to have an impact on the critical path of the Project, (even if the Contractor has not yet been delayed when the Contractor discovers or reasonably should discover the critical path impact of the act, error, omission or unforeseen condition giving rise to the delay) the Contractor submits both a timely and complete Change Order Request that meets the requirements of Article 4.2.
 - .3 Condition Number Three: The delay is not caused by:
 - A concealed, unforeseen or unknown condition or event except for a materially differing site condition pursuant to Article 3.17; or
 - .2 The financial inability, misconduct or default of the Contractor, a Subcontractor or supplier; or
 - .3 The unavailability of materials or parts.
 - .4 <u>Condition Number Four</u>: The delay is caused by:
 - .1 Fire: or
 - Strikes, boycotts, or like obstructive actions by labor organizations; or
 - .3 Acts of God (As used herein, "Acts of God" shall include only earthquakes in excess of a magnitude of 3.5 on the Richter Scale and tidal waves); or
 - .4 A materially differing site condition pursuant to Article 3.17; or
 - .5 An error or omission in the Contract; or
 - .6 The University's decision to change the scope of the Work, where such decision is not the result of any default or misconduct of the Contractor; or
 - .7 The University's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Contractor; or
 - .8 The failure of the University (including the University acting through its consultants, Design Professionals, Separate Contractors or the University's representative) to perform any





- Contract obligation unless such failure is due to Contractor's default or misconduct.
- .9 "Adverse weather," but only for such days of adverse weather, or on-site conditions caused by adverse weather, that are in excess of the number of days specified in the Supplementary Conditions. In order for a day to be considered a day of adverse weather for the purpose of determining whether Contractor is entitled to an adjustment in Contract Time, both of the following conditions must be met:
 - .1 the day must be a day in which, as a result of adverse weather, less than one half day of critical path work is performed by Contractor; and
 - .2 the day must be identified in the Contract Schedule as a scheduled work day.
- 8.4.2 If and only if a delay meets all four conditions prescribed in Article 8.4.1, then a time extension will be granted for each day that Final Completion of the Work is delayed beyond the Contract Time, subject to the following:
 - .1 When two or more delays (each of which meet all four conditions prescribed in Article 8.4.1) occur concurrently on the same day, and each such concurrent delay by itself without consideration of the other delays would be critical, then all such concurrent delays shall be considered critical. For the purpose of determining whether and to what extent the Contract Time should be adjusted pursuant to Article 8.4.2, such concurrent critical delays shall be treated as a single delay for each such day.
 - .2 Contractor shall be entitled to a time extension for a day of delay that meets all four requirements of Article 8.4.1 if the delay is concurrent with a delay that does not meet all four conditions of Article 8.4.1.
- 8.4.3 If for any reason one or more of the four conditions prescribed in Article 8.4.1 is held legally unenforceable, then all remaining conditions must be met as a condition to obtaining an extension of the Contract Time under Article 8.4.2.

8.5 COMPENSATION FOR DELAY

- 8.5.1 To the maximum extent allowed by law, any adjustment of the Contract Sum as the result of delays shall be limited to the amounts specified in Article 7. Such adjustment shall, to the maximum extent allowed by law, constitute payment in full for all delay related costs (including costs for disruption, interruption and hindrance, general conditions, on and off-site overhead and profit) of Contractor, its Suppliers and Subcontractors of all tiers and all persons and entities working under or claiming through Contractor in connection with the Project.
- 8.5.2 By signing the Agreement, the parties agree that the University is buying the right to do any or all of the following, which are reasonable and within the contemplation of the parties:
 - .1 To order changes in the Work, regardless of the extent and number of changes, including without limitation:
 - .1 Changes to correct errors or omissions, if any, in the Contract Documents.
 - .2 Changes resulting from the University's decision to change the scope of the Work subsequent to execution of the Contract.
 - .3 Changes due to unforeseen conditions.
 - .2 To suspend the Work or any part thereof.
 - .3 To delay the Work, including without limitation, delays resulting from the failure of the University or the University's Representative to timely perform any Contract obligation and delays for University's convenience.



8.6 WAIVER

- 8.6.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 8, including without limitation the requirements in Article 8.4, in connection with any or all past delays shall not constitute a waiver of, and shall not preclude the University or University's Representative from enforcing, such requirements in connection with any present or future delays.
- 8.6.2 Contractor agrees and understands that no oral approval, either express or implied, of any time extension by University or its agents shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 9 PAYMENTS AND COMPLETION

9.1 COST BREAKDOWN

9.1.1 Within 10 days after receipt of the Notice of Selection as the apparent lowest responsible Bidder, and with the Agreement, Contractor shall submit to University's Representative a Cost Breakdown of the Contract Sum in the form contained in the Exhibits. The Cost Breakdown shall itemize as separate line items the cost of each Work Activity and all associated costs, including but not limited to warranties, as-built documents, overhead expenses, and the total allowance for profit. Insurance and bonds shall each be listed as separate line items. The total of all line items shall equal the Contract Sum. The Cost Breakdown, when approved by the University's Representative, shall become the basis for determining the cost of Work performed for Contractor's Applications for Payment.

9.2 PROGRESS PAYMENT

- 9.2.1 University agrees to pay monthly to Contractor, subject to Article 9.4.3, an amount equal to 95% of the sum of the following:
 - .1 Cost of the Work in permanent place as of the date of the Contractor's Application For Payment.
 - .2 Plus cost of materials not yet incorporated in the Work, subject to Article 9.3.5.
 - .3 Less amounts previously paid.

Under this Article 9.2.1, University may, but is not required, to pay Contractor more frequently than monthly.

9.2.2 After Substantial Completion and subject to Article 9.4.3, University will make any of the remaining progress payments in full.

9.3 APPLICATION FOR PAYMENT

9.3.1 On or before the 10th day of the month or such other date as is established by the Contract Documents, Contractor shall submit to University's Representative an itemized Application For Payment, for the cost of the Work in permanent place, as approved by University's Representative, which has been completed in accordance with the Contract Documents, less amounts previously paid.

The Application For Payment shall be prepared as follows:

- .1 Use the form contained in the Exhibits.
- .2 Itemize in accordance with the Cost Breakdown.
- .3 Include such data substantiating Contractor's right to payment as University's Representative may reasonably require, such as invoices, certified payrolls, daily time and material records, and, if securities are deposited in lieu of retention pursuant to Article 9.5, a certification of the market value of all such securities as of a date not earlier than 5 days prior to the date of the Application For Payment.
- .4 Itemize retention.
- 9.3.2 Applications For Payment shall not include requests for payment on account of (1) changes which have not been authorized by Change Orders or (2) amounts Contractor does not intend to pay a Subcontractor





because of a dispute or other reason.

- If required by University, an Application For Payment shall be accompanied by (1) a summarv showing payments that will be made to Subcontractors covered by such application and conditional releases upon progress payment or final payment and (2) unconditional waivers and releases of claims and stop payment notices, in the form contained in the Exhibits, from each Subcontractor listed in the preceding Application For Payment covering sums disbursed pursuant to that preceding Application For Payment.
- Contractor warrants that, upon submittal of an Application For Payment, all Work, for which Certificates For Payment have been previously issued and payment has been received from University, shall be free and clear of all claims, stop payment notices, security interests, and encumbrances in favor of Contractor, Subcontractors, or other persons or firms entitled to make claims by reason of having provided labor, materials, or equipment relating to the Work.
- At the sole discretion of University, University's Representative may approve for inclusion in the Application For Payment the cost of materials not yet incorporated in the Work but already delivered and suitably stored either at the Project site or at some other appropriate location acceptable to University's Representative. In such case, Contractor shall furnish evidence satisfactory to University's Representative (1) of the cost of such materials and (2) that such materials are under the exclusive control of Contractor. Only materials to be incorporated in the Work will be considered for payment. Any payment shall not be construed as acceptance of such materials nor relieve Contractor from sole responsibility for the care and protection of such materials; nor relieve Contractor from risk of loss to such materials from any cause whatsoever; nor relieve Contractor from its obligation to complete the Work in accordance with the Contract; nor act as a waiver of the right of University to require fulfillment of all terms of the Contract. Nothing contained within this Article 9.3.5 shall be deemed to obligate University to agree to payment for any non-incorporated materials or any part thereof, payment being in the sole and absolute discretion of University.

CERTIFICATE FOR PAYMENT

- If Contractor has submitted an Application For Payment in accordance with Article 9.3, University's Representative shall, not later than 5 working days after the date of receipt of the Application For Payment, issue to University, with a copy to Contractor, a Certificate For Payment for such amount as University's Representative determines to be properly due.
- If any such Application For Payment is determined not to be in accordance with Article 9.3, University will inform Contractor as soon as practicable, but not later than 5 working days after receipt. Thereafter, Contractor shall have 3 days to revise and resubmit such Application For Payment; otherwise University's Representative may issue a Certificate For Payment in the amount that University's Representative determines to be properly due without regard to such Application For Payment.
- Approval of all or any part of an Application For Payment may be withheld, a Certificate For Payment may be withheld, and all or part of a previous Certificate For Payment may be nullified and that amount withheld from a current Certificate For Payment on account of any of the following:
 - Defective Work not remedied.
 - Third-party claims against Contractor or University arising from the acts or .2 omissions of Contractor or Subcontractors.
 - .3 Stop payment notices.
 - Failure of Contractor to make timely payments due Subcontractors for material or .4
 - .5 A reasonable doubt that the Work can be completed for the balance of the Contract Sum then unpaid.
 - .6 Damage to University or Separate Contractor for which Contractor is responsible.
 - Reasonable evidence that the Work will not be completed within the Contract Time; .7 and that the unpaid balance of the Contract Sum would not be adequate to cover University's damages for the anticipated delay.
 - .8 Failure of Contractor to maintain and update as-built documents.
 - .9 Failure of Contractor to submit schedules or their updates as required by the Contract Documents.
 - Failure to provide conditional or unconditional releases from any Subcontractor or .10 supplier, if such waiver(s) have been requested by University's Representative.





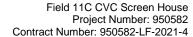
- .11 Performance of Work by Contractor without properly processed Shop Drawings.
- .12 Liquidated damages assessed in accordance with Article 5 of the Agreement.
- .13 Failure to provide updated Reports of Subcontractor Information and Self-Certifications, as applicable.
- .14 Failure to provide a Final Distribution of Contract Dollars with final Application for Payment.
- .15 Any other failure of Contractor to perform its obligations under the Contract Documents.
- 9.4.4 Subject to the withholding provisions of Article 9.4.3, University will pay Contractor the amount set forth in the Certificate For Payment no later than 10 days after the issuance of the Certificate For Payment.
- 9.4.5 Neither University nor University's Representative will have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.
- 9.4.6 Neither a Certificate For Payment nor a progress payment made by University will constitute acceptance of Defective Work.

9.5 DEPOSIT OF SECURITIES IN LIEU OF RETENTION AND DEPOSIT OF RETENTION INTO ESCROW

- 9.5.1 At the request and expense of Contractor, a substitution of securities may be made for any monies retained by University under Article 9.2 to ensure performance under the Contract Documents. Securities equivalent in value to the retention amount required by the Contract Documents for each Certificate For Payment shall be deposited by Contractor with a state or federally chartered bank in the State of California ("Escrow Agent"), which shall hold such securities pursuant to the escrow agreement referred to in Article 9.5.3 until retention is due in accordance with Article 9.8. Securities shall be valued as often as conditions of the securities market warrant, but in no case less than once per month. Contractor shall deposit additional securities so that the current market value of the total of all deposited securities shall be at least equal to the total required amount of retention.
- 9.5.2 Alternatively to Article 9.5.1, and at the request and expense of Contractor, University will deposit retention directly with Escrow Agent. Contractor may direct the investment of such deposited retention into interest bearing accounts or securities, and such deposits or securities shall be held by Escrow Agent upon the same terms provided for securities deposited by Contractor. Contractor and its surety shall bear the risk of failure of the Escrow Agent selected.
- 9.5.3 A prerequisite to the substitution of securities in lieu of retention or the deposit of retention into escrow shall be the execution by Contractor, University, and Escrow Agent of an Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits. The Contractor shall submit the Selection of Retention Options and the Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention not later than the date when 50% of the Work has been completed. The terms of such escrow agreement are incorporated into the requirements of this Article 9.5.

9.6 BENEFICIAL OCCUPANCY

- 9.6.1 University reserves the right, at its option and convenience, to occupy or otherwise make use of any part of the Work at any time prior to Substantial Completion or Final Completion upon 10 days' notice to Contractor. Such occupancy or use is herein referred to as "Beneficial Occupancy." Beneficial Occupancy shall be subject to the following conditions:
 - .1 University's Representative will make an inspection of the portion of the Project to be beneficially occupied and prepare a list of items to be completed or corrected prior to Final Completion. Prior to Beneficial Occupancy, University will issue a Certificate of Beneficial Occupancy on University's form.
 - .2 Beneficial Occupancy by University shall not be construed by Contractor as an acceptance by University of that portion of the Work which is to be occupied.
 - .3 Beneficial Occupancy by University shall not constitute a waiver of existing claims of University or Contractor against each other.





- .4 Contractor shall provide, in the areas beneficially occupied and on a 24 hour and 7 day week basis as required, utility services, heating, and cooling for systems which are in operable condition at the time of Beneficial Occupancy. All responsibility for the operation and maintenance of equipment shall remain with Contractor while the equipment is so operated. Contractor shall submit to University an itemized list of each piece of equipment so operated with the date operation commences.
- The Guarantee to Repair Periods, as defined in Article 12.2, will commence upon the occupancy date stated in the Certificate of Beneficial Occupancy except that the Guarantee to Repair Periods for that part of equipment or systems that serve portions of the Work for which University has not taken Beneficial Occupancy or issued a Certificate of Substantial Completion shall not commence until the University has taken Beneficial Occupancy for that portion of the Work or has issued a Certificate of Substantial Completion with respect to the entire Project.
- .6 University will pay all normal operating and maintenance costs resulting from its use of equipment in areas beneficially occupied.
- .7 University will pay all utility costs which arise out of the Beneficial Occupancy.
- .8 Contractor shall not be responsible for providing security in areas beneficially occupied.
- .9 University will use its best efforts to prevent its Beneficial Occupancy from interfering with the conduct of Contractor's remaining Work.
- .10 Contractor shall not be required to repair damage caused by University in its Beneficial Occupancy.
- .11 Except as provided in this Article 9.6, there shall be no added cost to University due to Beneficial Occupancy.
- .12 Contractor shall continue to maintain all insurance required by the Contract in full force and effect.

9.7 SUBSTANTIAL COMPLETION

- 9.7.1 "Substantial Completion" means the stage in the progress of the Work, as determined by University's Representative, when the Work is complete and in accordance with the Contract Documents except only for completion of minor items which do not impair University's ability to occupy and fully utilize the Work for its intended purpose and a Certificate of Occupancy has been issued by the University.
- 9.7.2 When Contractor gives notice to University's Representative that the Work is substantially complete, unless University's Representative determines that the Work is not sufficiently complete to warrant an inspection to determine Substantial Completion, University's Representative will inspect the Work. If the University's Representative determines that the Work is not substantially completed the University's Representative will prepare and give to Contractor a comprehensive list of items to be completed or corrected before establishing Substantial Completion. Contractor shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of Contractor to complete all Work in accordance with the Contract Documents. Upon notification that the items on the list are completed or corrected, as applicable, the University's Representative will make an inspection to determine whether the Work is substantially complete. Costs for additional inspection by University's Representative shall be deducted from any monies due and payable to Contractor.
- 9.7.3 When University's Representative determines that the Work is substantially complete, University's Representative will arrange for inspection by University's Building Official and other officials, as appropriate, for the purpose of issuing a Certificate of Occupancy. After a Certificate of Occupancy has been issued by the University, the University's Representative will prepare a Certificate of Substantial Completion on University's form as contained in the Exhibits, which, when signed by University, shall establish the date of Substantial Completion and the responsibilities of University and Contractor for security, maintenance, utilities, insurance, and damage to the Work. The University's Representative will prepare and furnish to the Contractor a comprehensive "punch list" of items to be completed or corrected prior to Final Completion.
- 9.7.4 Unless otherwise provided in the Certificate of Substantial Completion, the Guarantee To Repair Period for the Work covered by the Certificate of Substantial Completion, shall commence on the date of Substantial Completion of the Work except that Substantial Completion shall not commence the Guarantee to Repair Period for any equipment or systems that:



- .1 Are not operational (equipment or systems shall not be considered operational if they cannot be used to provide the intended service; or
- .2 Are not accepted by the University.

The Guarantee To Repair Period for equipment or systems which become operational and accepted subsequent to Substantial Completion will begin on the date of their written acceptance by University.

9.7.5 The daily rate included in the Agreement and specifically identified as the rate to be paid to Contractor for Compensable Delays shall not apply to any delays occurring after the Work is substantially completed.

9.8 FINAL COMPLETION, FINAL PAYMENT, AND RELEASE OF RETENTION

- 9.8.1 Upon receipt of notice from Contractor that the Work is ready for final inspection, University's Representative will make such inspection. Final Completion shall be when University's Representative determines that the Work is fully completed and in accordance with the Contract Documents, including without limitation, satisfaction of all "punch list" items, and determines that a Certificate of Occupancy has been issued by the University. University will file a Notice of Completion within 15 days after Final Completion. After receipt of the final Application For Payment, if University's Representative determines that Final Completion has occurred, University's Representative will issue the final Certificate For Payment.
- 9.8.2 Final payment and retention shall be released to Contractor, as set forth in Article 9.8.3, after:
- .1 Contractor submits the final Application For Payment and all submittals required in accordance with Article 9.3;
- .2 Contractor submits all guarantees and warranties procured by Contractor from Subcontractors, all operating manuals for equipment installed in the Project, as-built documents, and all other submittals required by the Contract Documents;
- .3 Contractor submits the Final Distribution of Contract Dollars in the form contained in the Exhibits; and
 - .4 University's Representative issues the final Certificate For Payment.

At its sole discretion, after Final Completion, University may waive the requirement that Contractor submit a final Application For Payment before making final payment and/or release of retention to Contractor.

- 9.8.3 Final payment shall be paid not more than 10 days after University's Representative issues the final Certificate For Payment. Retention shall be released to Contractor 35 days after the filing of the Notice of Completion.
- 9.8.4 Acceptance of final payment by Contractor shall constitute a waiver of all claims, except claims for retention and claims previously made in writing and identified by Contractor as unsettled at the time of the final Application For Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

10.2 SAFETY OF PERSONS AND PROPERTY

- 10.2.1 Contractor shall take adequate precautions for safety of and shall provide adequate protection to prevent damage, injury, or loss to the following:
 - .1 Employees involved in the Work and other persons who may be affected thereby.



- .2 The Work in place and materials and equipment to be incorporated therein, whether in storage on or off the Project site, under care, custody, or control of Contractor or Subcontractors.
- .3 Other property at the Project site and adjoining property.
- 10.2.2 Contractor shall erect and maintain, as required by existing conditions and performance of the Work, adequate safeguards for safety and protection, including providing adequate lighting and ventilation, posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.
- 10.2.3 When use or storage of explosives, other hazardous materials, equipment, or unusual methods are necessary for execution of the Work, Contractor shall exercise the utmost care and carry on such activities only under the supervision of properly qualified personnel.
- 10.2.4 Contractor shall designate a responsible member of Contractor's organization at the Project site whose duty shall be the prevention of accidents. That person shall be the Superintendent, unless otherwise designated by Contractor in writing to University and University's Representative.
- 10.2.5 Contractor shall not load or permit any part of the Work or the Project site to be loaded so as to endanger the safety of persons or property.

10.3 EMERGENCIES

10.3.1 In an emergency affecting the safety of persons or property, Contractor shall act to prevent or minimize damage, injury, or loss. Contractor shall promptly notify University's Representative, which notice may be oral followed by written confirmation, of the occurrence of such an emergency and Contractor's action.

ARTICLE 11 INSURANCE AND BONDS

11.1 CONTRACTOR'S INSURANCE

- 11.1.1 Contractor shall, at its expense, purchase and maintain in full force and effect such insurance as will protect itself and University from claims, such as for bodily injury, wrongful death, and property damage, which may arise out of or result from the Work required by the Contract Documents, whether such Work is done by Contractor, by any Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. The amounts of such insurance and any additional insurance requirements are specified in the Supplementary Conditions. See Article 3.21 regarding the scope and extent of Contractor's liability for and repair of damaged Work.
- 11.1.2 The following policies and coverages shall be furnished by Contractor:
 - .1 COMMERCIAL GENERAL LIABILITY INSURANCE subject to terms no less broad than the Insurance Services Office's (ISO) form CG 0001 (2004 or later edition), or a substitute form providing coverage at least as broad as the ISO form specified, covering all Work done by or on behalf of Contractor and providing insurance for bodily injury, wrongful death, personal injury, property damage, and contractual liability. There shall be no limitations or exclusions of coverage beyond those contained in the standard ISO form CG 0001 (2004 or later edition). Except with respect to bodily injury and property damage included within the products and completed operations hazards, the aggregate limit shall apply separately to Work required of Contractor by these Contract Documents. Contractor shall continue to maintain Products/Completed Operations liability insurance coverage for a minimum completed operations period of 10 year(s) or the applicable Statute of Repose as provided by the law of the jurisdiction where the project is located as shown in the policy(ies), whichever is less. All terms and conditions of such coverage shall be maintained during this completed operations period, including the required minimum coverage limits and the requirement to provide the University with coverage as an additional insured for completed operations as



specified under this Article 11.1 and the Supplementary Conditions.

- BUSINESS AUTOMOBILE LIABILITY INSURANCE subject to terms no less broad than the Insurance Services Office's (ISO) form CA 0001 (1990 or later edition), or a substitute form providing coverage at least as broad as the ISO form specified, covering owned, hired, leased, and non-owned automobiles used by or on behalf of Insured, and providing liability insurance for bodily injury and property damage arising from the use or operation of such auto(s) with a minimum combined single limit of not less than \$1,000,000 per accident. The minimum limits required may be satisfied by combination of primary and umbrella/excess policies. The Commercial Automobile Liability Insurance shall be provided by Contractor for all on site and off site Work.
- .3 WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE as required by Federal and State of California law. Contractor shall also require all of its Subcontractors to maintain this insurance coverage.
- 11.1.3 The coverages required under this Article 11 shall not in any way limit the liability of Contractor.
- 11.1.4 Contractor's Certificates of Insurance, executed by a duly authorized representative of each broker of record or each insurer as evidence of the insurance required by these Contract Documents and on the form contained in the Exhibits, shall be submitted by Contractor to University prior to the commencement of Work by the Contractor. The Certificates of Insurance shall provide for no cancellation or modification of coverage without prior written notice to University, in accordance with policy provisions.
- 11.1.5 In the event Contractor does not comply with these insurance requirements, University may, at its option, provide insurance coverage to protect University; and the cost of such insurance shall be paid by Contractor and may be deducted from the Contract Sum.
- 11.1.6 Contractor's insurance as required by Article 11.1.2, shall, by endorsement to the policies, include the following:
 - The Regents of the University of California, The University of California, University, and each of their Representatives, consultants, officers, agents, employees, and each of their Representative's consultants, regardless of whether or not identified in the Contract Documents or to the Contractor in writing, will be included as additional insureds on the Contractor's General Liability insurance for and relating to the Work to be performed by the Contractor and Subcontractors. Additional Insured provision or endorsement shall be at least as broad as the CG 20 07 04 in combination with the CG 20 37 07 04 (or earlier versions of CG 20 10 and CG 20 37 or Form B CG 20 10 11 85 by itself), as published by Insurance Services Offices (ISO) and shall be included with Certificates of Insurance. The additional insured requirement shall not apply to Worker's Compensation and Employer's Liability insurance.

Further, the amount of insurance available to the University shall be for the full amount of the loss up to the available policy limits and shall not be limited to any minimum requirements stated in the Contract Documents.

- .2 University, University's consultants, University's Representative, and University's Representative's consultants will not by reason of their inclusion as insureds incur liability to the insurance carriers for payment of premiums for such insurance.
- .3 Coverage provided is primary and is not in excess of or contributing with any insurance or self-insurance maintained by University, University's consultants, University's Representative, and University's Representative's consultants. This provision, however, shall only apply as per the stipulations of Article 11.1.6.1.





- 11.1.7 The form and substance of all insurance policies required to be obtained by Contractor shall be subject to approval by University. All policies required by Articles 11.1.2.1, 11.1.2.2, and 11.1.2.3 shall be issued by companies with ratings and financial classifications as specified in the Supplementary Conditions.
- 11.1.8 Contractor shall, by mutual agreement with University, furnish any additional insurance as may be required by University. Contractor shall provide Certificates of Insurance evidencing such additional insurance.
- 11.1.9 The Certificate of Insurance shall show (1) all companies affording coverage and (2) the name of the insured exactly in the manner as shown on the Bid Form. The name of the insured must be the name under which the entity is licensed by the Contractors State License Board.
- 11.1.10 If insurance company refuses to use the Certificate of Insurance form as contained in the Exhibits, it must provide a Certificate of Insurance evidencing compliance with this Article including those provisions noted under DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES section of the Certificate of Insurance Exhibit by including an endorsement to its Certificate of Insurance form covering those noted provisions exactly as they appear on the Certificate of Insurance Exhibit.
- 11.1.11 At the request of University, Contractor shall submit to University copies of the policies obtained by Contractor.

11.2 BUILDER'S RISK PROPERTY INSURANCE

- 11.2.1 If and only if the Contract Sum exceeds \$300,000 at the time of award, University will provide its standard builder's risk property insurance, subject to the deductibles, terms and conditions, exclusions, and limitations as contained in the provisions of the policy. A copy of the University's standard builder's risk property insurance policy is available at the University's Facility office. In addition, a summary of the provisions of the policy is included as an Exhibit to the Contract. Contractor agrees that the University's provision of its standard builder's risk property insurance policy meets the University's obligation to provide builder's risk property insurance under the Contract and, in the event of a conflict between the provisions of the policy and any summary or description of the provisions contained herein or otherwise, the provisions of the policy shall control and shall be conclusively presumed to fulfill the University's obligation to provide such insurance. The proceeds under such insurance policies taken out by University insuring the Work and materials will be payable to University and Contractor as their respective interests, from time to time, may appear. Contractor shall be responsible for the deductible amount in the event of a loss. In addition, nothing in this Article 11.2 shall be construed to relieve Contractor of full responsibility for loss of or damage to materials not incorporated in the Work, and for Contractor's tools and equipment used to perform the Work, whether on the Project site or elsewhere, or to relieve Contractor of its responsibilities referred to under this Article 11. Materials incorporated in the Work, as used in this Article 11.2, shall mean materials furnished while in transit to, stored at, or in permanent place at the Project site.
- 11.2.2 Insurance policies referred to under this Article 11.2 shall:
 - .1 Include a provision that the policies are primary and do not participate with nor are excess over any other valid collectible insurance carried by Contractor.
 - .2 Include a waiver of subrogation against Contractor, its Subcontractors, its agents, and employees.
- 11.2.3 Builder's risk insurance coverage under this Article 11.2 will expire on the date of Final Completion recited in a Notice of Completion filed pursuant to Article 9.8.1. Should a Notice of Completion be filed more than 10 days after the date of Final Completion, the date of Final Completion recited in the Notice of Completion will govern.

11.3 PERFORMANCE BOND AND PAYMENT BOND

- 11.3.1 Contractor shall furnish bonds covering the faithful performance of the Contract (Performance Bond) and payment of obligations arising thereunder (Payment Bond) on the forms contained in Exhibits 3 and 2.
- 11.3.2 The Payment Bond and Performance Bond shall each be in the amount of the Contract Sum.



- 11.3.3 The Payment Bond and Performance Bond shall be in effect on the date the Contract is signed by University.
- 11.3.4 Contractor shall promptly furnish such additional security as may be required by University to protect its interests and those interests of persons or firms supplying labor or materials to the Work. Contractor shall furnish supplemental Payment and Performance Bonds each in the amount of the current Contract Sum at the request of the University.
- 11.3.5 Surety companies used by Contractor shall be, on the date the Contract is signed by University, an admitted surety insurer (as defined in the California Code of Civil Procedure Section 995.120).
- 11.3.6 The premiums for the Payment Bond and Performance Bond shall be paid by Contractor.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

12.1 UNCOVERING OF WORK

- 12.1.1 If a portion of the Work is covered contrary to University's Representative's request or direction, or contrary to the requirements of the Contract Documents, it must, if required in writing by University's Representative, be uncovered for University's Representative's observation and be replaced at Contractor's expense without adjustment of the Contract Time or the Contract Sum.
- 12.1.2 If a portion of the Work has been covered, which is not required by the Contract Documents to be observed or inspected prior to its being covered and which University's Representative has not specifically requested to observe prior to its being covered, University's Representative may request to see such Work and it shall be uncovered and replaced by Contractor. If such Work is in accordance with the Contract Documents, the costs of uncovering and replacing the Work shall be added to the Contract Sum by Change Order; and if the uncovering and replacing of the Work extends the Contract Time, an appropriate adjustment of the Contract Time shall be made by Change Order. If such Work is not in accordance with the Contract Documents, Contractor shall pay such costs and shall not be entitled to an adjustment of the Contract Time or the Contract Sum.

12.2 CORRECTION OF DEFECTIVE WORK AND GUARANTEE TO REPAIR PERIOD

- 12.2.1 The term "Guarantee To Repair Period" means a period of 1 year, unless a longer period of time is specified, commencing as follows:
 - .1 For any Work not described as incomplete in the Certificate of Substantial Completion, on the date of Substantial Completion.
 - .2 For space beneficially occupied or for separate systems fully utilized prior to Substantial Completion pursuant to Article 9.6, from the first date of such Beneficial Occupancy or actual use, as established in a Certificate of Beneficial Occupancy.
 - .3 For all Work other than .1 or .2 above, from the date of Final Completion.
- 12.2.2 Contractor shall (1) correct Defective Work that becomes apparent during the progress of the Work or during the Guarantee To Repair Period and (2) replace, repair, or restore to University's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of Defective Work or the correction of Defective Work. Contractor shall promptly commence such correction, replacement, repair, or restoration upon notice from University's Representative or University, but in no case later than 10 days after receipt of such notice; and Contractor shall diligently and continuously prosecute such correction to completion. Contractor shall bear all costs of such correction, replacement, repair, or restoration, and all losses resulting from such Defective Work, including additional testing, inspection, and compensation for University's Representative's services and expenses. Contractor shall perform corrective Work at such times that are acceptable to University and in such a manner as to avoid, to the extent practicable, disruption to University's activities.
- 12.2.3 If immediate correction of Defective Work is required for life safety or the protection of property and is performed by University or Separate Contractors, Contractor shall pay to University all reasonable costs of correcting such Defective Work. Contractor shall replace, repair, or restore to University's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of



such Defective Work or the correction of such Defective Work.

- 12.2.4 Contractor shall remove from the Project site portions of the Work and materials which are not in accordance with the Contract Documents and which are neither corrected by Contractor nor accepted by University.
- 12.2.5 If Contractor fails to commence correction of Defective Work within 10 days after notice from University or University's Representative or fails to diligently prosecute such correction to completion, University may correct the Defective Work in accordance with Article 2.4; and, in addition, University may remove the Defective Work and store salvageable materials and equipment at Contractor's expense.
- 12.2.6 If Contractor fails to pay the costs of such removal and storage as required by Articles 12.2.4 and 12.2.5 within 10 days after written demand, University may, without prejudice to other remedies, sell such materials at auction or at private sale, or otherwise dispose of such material. Contractor shall be entitled to the proceeds of such sale, if any, in excess of the costs and damages for which Contractor is liable to University, including compensation for University's Representative's services and expenses. If such proceeds of sale do not cover costs and damages for which Contractor is liable to University, the Contract Sum shall be reduced by such deficiency. If there are no remaining payments due Contractor or the remaining payments are insufficient to cover such deficiency, Contractor shall promptly pay the difference to University.
- 12.2.7 Contractor's obligations under this Article 12 are in addition to and not in limitation of its warranty under Article 3.4 or any other obligation of Contractor under the Contract Documents. Enforcement of Contractor's express warranties and guarantees to repair contained in the Contract Documents shall be in addition to and not in limitation of any other rights or remedies University may have under the Contract Documents or at law or in equity for Defective Work. Nothing contained in this Article 12 shall be construed to establish a period of limitation with respect to other obligations of Contractor under the Contract Documents. Establishment of the Guarantee To Repair Period relates only to the specific obligation of Contractor to correct the Work and in no way limits either Contractor's liability for Defective Work or the time within which proceedings may be commenced to enforce Contractor's obligations under the Contract Documents.

ARTICLE 13 TERMINATION OR SUSPENSION OF THE CONTRACT

13.1 TERMINATION BY CONTRACTOR

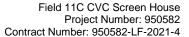
- 13.1.1 Subject to Article 13.1.2, Contractor shall have the right to terminate the Contract only upon the occurrence of one of the following:
 - .1 Provided that University has not commenced reasonable action to remove any order of a court within the 90 day period, the Work is stopped for 90 consecutive days, through no act or fault of Contractor, any Subcontractor, or any employee or agent of Contractor or any Subcontractor, due to an issuance of an order of a court or other public authority having jurisdiction or due to an act of government, such as a declaration of a national emergency making material unavailable.
 - .2 University fails to perform any material obligation under the Contract and fails to cure such default within 30 days, or University has not commenced to cure such default within 30 days where such cure will require a reasonable period beyond 30 days and diligently prosecutes the same to completion, after receipt of notice from Contractor stating the nature of such default(s).
 - .3 Repeated suspensions by University, other than such suspensions as are agreed to by Contractor under Article 13.3, which constitute in the aggregate more than 20% of the Contract Time.
- 13.1.2 Upon the occurrence of one of the events listed in Article 13.1.1, Contractor may, upon 10 days additional notice to University and University's Representative, and provided that the condition giving rise to Contractor's right to terminate is continuing, terminate the Contract.
- 13.1.3 Upon termination by Contractor, University will pay to Contractor the sum determined by Article 13.4.4. Such payment will be the sole and exclusive remedy to which Contractor is entitled in the event of



termination of the Contract by Contractor pursuant to Article 13.1; and Contractor will be entitled to no other compensation or damages and expressly waives the same.

13.2 TERMINATION BY UNIVERSITY FOR CAUSE

- 13.2.1 University will have the right to terminate the Contract for cause at any time after the occurrence of any of the following events:
 - .1 Contractor becomes insolvent or files for relief under the bankruptcy laws of the United States.
 - .2 Contractor makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.
 - .3 A receiver is appointed to take charge of Contractor's property.
 - .4 The commencement or completion of any Work activity on the critical path is more than 30 days behind the date set forth in the Contract Schedule for such Work activity, as a resultof an Unexcusable Delay. For a Contract with a Contract Time of less than 300 days, the 30-day period shall be reduced to the number of days commensurate with 10% of the Contract Time.
 - .5 Contractor abandons the Work.
- 13.2.2 Upon the occurrence of any of the following events, University will have the right to terminate the Contract for cause if Contractor fails to promptly commence to cure such default and diligently prosecute such cure within 5 days after notice from University, or within such longer period of time as is reasonably necessary to complete such cure:
 - .1 Contractor persistently or repeatedly refuses or fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.
 - .2 Contractor fails to make prompt payment of amounts properly due Subcontractors after receiving payment from University.
 - .3 Contractor disregards Applicable Code Requirements.
 - .4 Contractor persistently or materially fails to execute the Work in accordance with the Contract Documents.
 - .5 Contractor is in default of any other material obligation under the Contract Documents.
 - .6 Contractor persistently or materially fails to comply with applicable safety requirements.
- 13.2.3 Upon any of the occurrences referred to in Articles 13.2.1 and 13.2.2, University may, at its election and by notice to Contractor, terminate the Contract and take possession of the Project site and all materials, supplies, equipment, tools, and construction equipment and machinery thereon owned by Contractor; accept the assignment of any or all of the subcontracts; and then complete the Work by any method University may deem expedient. If requested by University, Contractor shall remove any part or all of Contractor's materials, supplies, equipment, tools, and construction equipment and machinery from the Project site within 7 days of such request; and if Contractor fails to do so, University may remove or store, and after 90 days sell, any of the same at Contractor's expense.
- 13.2.4 If the Contract is terminated by University as provided in this Article 13.2, Contractor shall not be entitled to receive any further payment until the expiration of 35 days after Final Completion and acceptance of all Work by University.
- 13.2.5 If the unpaid balance of the Contract Sum exceeds the cost of completing the Work, including all additional costs and expenses made necessary thereby, including costs for University staff time, plus all losses sustained, including any liquidated damages provided under the Contract Documents, such excess shall be paid to Contractor. If such costs, expenses, losses, and liquidated damages exceed the unpaid balance of the Contract Sum, Contractor shall pay such excess to University.
- 13.2.6 No termination or action taken by University after termination shall prejudice any other rights or remedies of University provided by law or by the Contract Documents upon such termination; and University may proceed against Contractor to recover all losses suffered by University.





13.3 SUSPENSION BY UNIVERSITY FOR CONVENIENCE

- 13.3.1 University may, at any time and from time to time, without cause, order Contractor, in writing, to suspend, delay, or interrupt the Work in whole or in part for such period of time, up to 90 days, as University may determine, with such period of suspension to be computed from the date of delivery of the written order. Such order shall be specifically identified as a "Suspension Order" under this Article 13.3. The Work may be stopped for such further period as the parties may agree. Upon receipt of a Suspension Order, Contractor shall, at University's expense, comply with its terms and take all reasonable steps to minimize costs allocable to the Work covered by the Suspension Order during the period of Work stoppage. Within 90 days after the issuance of the Suspension Order, or such extension to that period as is agreed upon by Contractor and University, University shall either cancel the Suspension Order or delete the Work covered by such Suspension Order by issuing a Change Order.
- 13.3.2 If a Suspension Order is canceled or expires, Contractor shall continue with the Work. A Change Order will be issued to cover any adjustments of the Contract Sum or the Contract Time necessarily caused by such suspension. Any Claim by Contractor for an adjustment of the Contract Sum or the Contract Time shall be made within 21 days after the end of the Work suspension. Contractor agrees that submission of its claim within said 21 days is an express condition precedent to its right to Arbitrate or Litigate such a claim.
- 13.3.3 The provisions of this Article 13.3 shall not apply if a Suspension Order is not issued by University. A Suspension Order shall not be required to stop the Work as permitted or required under any other provision of the Contract Documents.

13.4 TERMINATION BY UNIVERSITY FOR CONVENIENCE

- 13.4.1 University may, at its option, terminate this Contract, in whole or from time to time in part, at any time by giving notice to Contractor. Upon such termination, Contractor agrees to waive any claims for damages, including loss of anticipated profits, on account thereof; and, as the sole right and remedy of Contractor, University shall pay Contractor in accordance with Article 13.4.4.
- 13.4.2 Upon receipt of notice of termination under this Article 13.4, Contractor shall, unless the notice directs otherwise, do the following:
 - .1 Immediately discontinue the Work to the extent specified in the notice.
 - .2 Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of such portion of the Work as is not discontinued.
 - .3 Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work.
 - .4 Thereafter do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials, plants, and equipment on the Project site or in transit thereto.
- 13.4.3 Upon such termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to Contractor's obligations under Article 13.4.2, as to bona fide obligations assumed by Contractor prior to the date of termination.
- 13.4.4 Upon such termination, University shall pay to Contractor the sum of the following:
 - .1 The amount of the Contract Sum allocable to the portion of the Work properly performed by Contractor as of the date of termination, less sums previously paid to Contractor.
 - .2 Plus an amount equal to the lesser of \$50,000 or 5% of the difference between the Contract Sum and the amount of the Contract Sum allocable to the portion of the Work properly performed by Contractor as of the date of termination.
 - .3 Plus previously unpaid costs of any items delivered to the Project site which were fabricated for subsequent incorporation in the Work.
 - .4 Plus any proven losses with respect to materials and equipment directly resulting from such termination.
 - .5 Plus reasonable demobilization costs.



.6 Plus reasonable costs of preparing a statement of the aforesaid costs, expenses, and losses in connection with such termination.

The above payment shall be the sole and exclusive remedy to which Contractor is entitled in the event of termination of the Contract by University pursuant to Article 13.4; and Contractor will be entitled to no other compensation or damages and expressly waives same.

ARTICLE 14 STATUTORY AND OTHER REQUIREMENTS

14.1 PATIENT HEALTH INFORMATION

Contractor 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.). Contractor 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. Contractor will adopt procedures to ensure that its employees, agents and subcontractors refrain from such activity. If Contractor, its employees, agents or subcontractors do further examine, copy, photograph, record in any manner, distribute or share this information, Contractor will report such actions immediately to the University Representative. Contractor will immediately take all steps necessary to stop any such actions and will ensure that no further violations of this contractual responsibility will occur. Contractor will report to University Representative within five (5) days after Contractor gives University Representative notice of the event/action of the steps taken to prevent future occurrences.

14.2 NONDISCRIMINATION

- 14.2.1 For purposes of this Article 14.2, the term Subcontractor shall not include suppliers, manufacturers, or distributors.
- 14.2.2 Contractor shall comply and shall ensure that all Subcontractors comply with Section 12900 through 12996, of the State of California Government Code.
- 14.2.3 Contractor agrees as follows during the performance of the Work:
 - Contractor shall provide equal treatment to, and shall not willfully discriminate against or .1 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). Contractor 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 contractor also agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, 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.

- .2 Contractor and all Subcontractors will permit access to their records of employment, employment advertisements, application forms, and other pertinent data and records by University or any appropriate agency of the State of California designated by University for the purposes of investigation to ascertain compliance with this Article 14.2. The outcome of the investigation may result in the following:
 - .1 A finding of willful violation of the provisions of this Contract or of the Fair Employment Practices Act may be regarded by University as (1) a basis for determining that Contractor is not a "responsible bidder" as to future contracts for which such Contractor may submit bids or (2) a basis for refusing to accept or consider the bids of Contractor for future contracts.
 - .2 University may deem a finding of willful violation of the Fair Employment Practices Act to have occurred upon receipt of written notice from the Fair Employment Practices Commission that it has (1) investigated and determined that Contractor has violated the Fair Employment Practices Act and (2) issued an order under the State of California Government Code Section 12970 or obtained an injunction under Government Code Section 12973.
 - .3 Upon receipt of such written notice from the Fair Employment Practices Commission, University may notify Contractor that, unless it demonstrates to the satisfaction of University within a stated period that the violation has been corrected, Contractor's bids on future projects will not be considered.
 - .4 Contractor agrees that, should University determine that Contractor has not complied with this Article 14.2, Contractor shall forfeit to University, as a penalty, for each day or portion thereof, for each person who was denied employment as a result of such non-compliance, the penalties provided in Article 14.3 for violation of prevailing wage rates. Such penalty amounts may be recovered from Contractor; and University may deduct any such penalty amounts from the Contract Sum.
 - .5 Nothing contained in this Article 14.2 shall be construed in any manner so as to prevent University from pursuing any other remedies that may be available at law.
 - .6 Contractor shall meet the following standards for compliance and provide University with satisfactory evidence of such compliance upon University's request, which shall be evaluated in each case by University:
 - .1 Contractor shall notify its Superintendent and other supervisory personnel of the nondiscrimination requirements of the Contract Documents and their responsibilities thereto.
 - .2 Contractor shall notify all sources of employee referrals (including unions, employment agencies, and the State of California Department of Employment) of the nondiscrimination requirements of the Contract Documents by sending to such sources and by posting the Notice of Equal Employment Opportunity (EEO).
 - .3 Contractor or its representative shall, through all unions with whom it may have agreements, develop agreements that (1) define responsibilities for nondiscrimination in hiring, referrals, upgrading, and training and (2) implement an affirmative nondiscrimination program, in terms of the unions' specific areas of skill and geography, such that qualified minority women, nonminority women, and minority men shall be available and given an equal opportunity for employment.
 - .4 Contractor shall notify University of opposition to the nondiscrimination requirements of the Contract Documents by individuals, firms, or organizations during the term of the Contract.



.7 Contractor shall include the provisions of the foregoing Articles 14.2.3.2.1 through 14.2.3.2.6 in all subcontracts with Subcontractors, so that such provisions will be binding upon each such Subcontractor.

14.3 PREVAILING WAGE RATES

- 14.3.1 For purposes of this Article 14.3, the term Subcontractor shall not include suppliers, manufacturers, or distributors.
- 14.3.2 Contractor shall comply and shall ensure that all Subcontractors comply with prevailing wage law pursuant to the State of California Labor Code, including but not limited to Section 1720 et seq. 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.
- 14.3.3 The State of California Department of Industrial Relations has ascertained the general prevailing per diem wage rates in the locality in which the Work is to be performed for each craft, classification, or type of worker required to perform the Work. A copy 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. Contractor shall post a copy of the general prevailing per diem wage rates as well as job site notices as prescribed by regulation at the job site. By this reference, such schedule is made part of the Contract Documents. Contractor shall pay not less than the prevailing wage rates, as specified in the schedule and any amendments thereto, to all workers employed by Contractor in the execution of the Work. Contractor shall cause all subcontracts to include the provision that all Subcontractors shall pay not less than the prevailing rates to all workers employed by such Subcontractors in the execution of the Work. Contractor 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 Work done by Contractor or any Subcontractor. The amount of this penalty shall be determined pursuant to applicable law. Such forfeiture amounts may be deducted from the Contract Sum or sought directly from the surety under its Performance Bond if there are insufficient funds remaining in the Contract Sum. Contractor 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 Work, 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. Review of any civil wage and penalty assessment shall be made pursuant to section 1742 of the California Labor Code.

14.4 PAYROLL RECORDS

- 14.4.1 For purposes of this Article 14.4, the term Subcontractor shall not include suppliers, manufacturers, or distributors.
- 14.4.2 Contractor and all Subcontractors 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, worker, or other employee employed in connection with the Work. All payroll records shall be certified as being true and correct by Contractor or Subcontractors keeping such records; and the payroll records shall be available for inspection at all reasonable hours at the principal office of Contractor 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 records 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 Contractor or





Subcontractors. 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 Contractor awarded the Contract or performing the Contract shall not be marked or obliterated.

14.4.3 Contractor 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. Contractor shall inform University of the location of such payroll records for the Project, including the street address, city, and county; and Contractor shall, within 5 working days, provide notice of change of location of such records. In the event of noncompliance with the requirements of this Article 14.4 or with the State of California Labor Code Section 1776, Contractor shall have 10 days in which to comply following receipt of notice specifying in what respects Contractor must comply. Should noncompliance still be evident after the 10 day period, Contractor 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 Contract Sum.

14.5 APPRENTICES

- 14.5.1 For purposes of this Article 14.5, the term Subcontractor shall not include suppliers, manufacturers, and distributors.
- 14.5.2 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 Contractor and Subcontractors as apprentices. 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 Contractor bears responsibility for compliance with this section for all apprenticeable occupations.
- 14.5.3 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 at the Work in the craft or trade to which the apprentice is indentured.
- 14.5.4 When Contractor or Subcontractors employ workers in any apprenticeship craft or trade on the Work, Contractor or Subcontractors shall 1) send contract award information to the applicable joint apprenticeship committee that can supply apprentices to the site of the public work and 2) 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 Contractor or Subcontractors 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 journeypersons who shall be employed in the craft or trade on the Work. The ratio will not exceed that stipulated in the apprenticeship standards under which the joint apprenticeship committee operates; but in no case shall the ratio be less than 1 hour of apprentice work for every 5 hours of journeyperson work, except as permitted by law. Contractor or Subcontractors shall, upon the issuance of the approval certificate in each such craft or trade, employ the number of apprentices or the ratio of apprentices to journeypersons fixed in the certificate issued by the joint apprenticeship committee or present an exemption certificate issued by the Division of Apprenticeship Standards.
- 14.5.5 "Apprenticeship craft or trade," as used in this Article 14.5, shall mean a craft or trade determined as an apprenticeship occupation in accordance with rules and regulations prescribed by the Apprenticeship Council.
- 14.5.6 If Contractor or Subcontractors employ journeyworkers 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, Contractor and Subcontractors shall contribute to the fund or funds in each craft or trade in which they employ journeyworkers or apprentices on the Work in the same amount or upon the same basis and in the same manner done by the other contractors. Contractor may include the amount of such contributions in computing its bid for the Contract; but if Contractor fails to do so, it shall not be entitled to any additional



compensation therefor from University.

- 14.5.7 In the event Contractor willfully fails to comply with this Article 14.5, it will be considered in violation of the requirements of the Contract.
- 14.5.8 Nothing contained herein shall be considered or interpreted as prohibiting or preventing the hiring by Contractor or Subcontractors of journeyworker trainees who may receive on-the-job training to enable them to achieve journeyworker status in any craft or trade under standards other than those set forth for apprentices.

14.6 WORK DAY

14.6.1 Contractor shall not permit any worker 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. Contractor shall forfeit to University, as a penalty, \$25 for each worker employed in the execution of this Contract by Contractor, or any Subcontractor, for each day during which such worker is required or permitted to work more than 8 hours in any 1 day and 40 hours in any 1 calendar week in violation of the terms of this Article 14.6 or in violation of the provisions of any law of the State of California. Such forfeiture amounts may be deducted from the Contract Sum. Contractor and each Subcontractor 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 on the Project, 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.

ARTICLE 15 MISCELLANEOUS PROVISIONS

15.1 GOVERNING LAW

15.1.1 The Contract shall be governed by the law of the State of California.

15.2 SUCCESSORS AND ASSIGNS

15.2.1 University and Contractor respectively bind themselves and their successors, permitted assigns, and legal representatives to the other party and to the successors, permitted assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract, in whole or in part, without prior written consent of the other party. Notwithstanding any such assignment, each of the original contracting parties shall remain legally responsible for all of its obligations under the Contract.

15.3 RIGHTS AND REMEDIES

- 15.3.1 All University's rights and remedies under the Contract Documents will be cumulative and in addition to and not in limitation of all other rights and remedies of University under the Contract Documents or otherwise available at law or in equity.
- 15.3.2 No action or failure to act by University or University's Representative will constitute a waiver of a right afforded them under the Contract, nor will such action or failure to act constitute approval of or acquiescence in a condition or breach thereunder, except as may be specifically agreed in writing. No waiver by University or University's Representative of any condition, breach or default will constitute a waiver of any other condition, breach or default; nor will any such waiver constitute a continuing waiver.
- 15.3.3 No provision contained in the Contract Documents shall create or give to third parties any claim or right of action against University, University's Representative, or Contractor.

15.4 SURVIVAL

15.4.1 The provisions of the Contract which by their nature survive termination of the Contract or Final Completion, including all warranties, indemnities, payment obligations, and University's right to audit Contractor's books and records, shall remain in full force and effect after Final Completion or any termination of the Contract.



15.5 COMPLETE AGREEMENT

15.5.1 The Contract Documents constitute the full and complete understanding of the parties and supersede any previous agreements or understandings, oral or written, with respect to the subject matter hereof. The Contract may be modified only by a written instrument signed by both parties or as provided in Article 7.

15.6 SEVERABILITY OF PROVISIONS

15.6.1 If any one or more of the provisions contained in the Contract Documents should be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

15.7 UNIVERSITY'S RIGHT TO AUDIT

15.7.1 University and entities and agencies designated by University will have access to and the right to audit and the right to copy at University's cost all of Contractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Contractor shall preserve all such records and other items during the performance of the Contract and for a period of at least 3 years after Final Completion.

15.8 METHODS OF DELIVERY FOR SPECIFIED DOCUMENTS

- 15.8.1 The following documents must be delivered in a manner specified in Article 15.8.2:
 - .1 Contractor Notices of election to litigate or arbitrate;
 - .2 Written demand for an informal conference to meet and confer pursuant to Article 4.5;
 - .3 University's written statement identifying remaining disputes following informal conference pursuant to Article 4.6;
 - Written demand for non-binding mediation pursuant to Article 4.6;
 - .5 Contractor claims pursuant to Article 4.3;
 - .6 Contractor notices of conditions pursuant to Articles 3.17, 3.18, or 3.19;
 - .7 University's notices of Contractor's failure to perform and/or correct defective work pursuant to Articles 4.1.6, 12.2 and 13.2.3;
 - .8 University's notice to stop work pursuant to Article 2.3.1:
 - .9 Notices of termination or suspension pursuant to Article 13.
- 15.8.2 Delivery methods for documents specified in Article 15.8.1:
 - .1 By personal delivery.
 - .2 Sent by facsimile copy where receipt is confirmed.
 - .3 Sent by Express Mail, or another method of delivery providing for overnight delivery where receipt is confirmed.
 - .4 Sent by registered or certified mail, postage prepaid, return receipt requested.
- 15.8.3 The documents identified in Article 15.8.1 shall only be effective if delivered in the manner specified in Article 15.8.2. Subject to the forgoing, such documents shall be deemed given and received upon actual receipt in the case of all except registered or certified mail; and in the case of registered or certified mail, on the date shown on the return receipt or the date delivery during normal business hours was attempted. Delivery of the specified documents shall be made at the respective street addresses set forth in the Agreement. Such street addresses may be changed by notice given in accordance with this Article 15.8.

15.9 TIME OF THE ESSENCE

15.9.1 Time limits stated in the Contract Documents are of the essence of the Contract.

15.10 MUTUAL DUTY TO MITIGATE



15.10.1 University and Contractor shall use all reasonable and economically practicable efforts to mitigate delays and damages to the Project and to one another with respect to the Project, regardless of the cause of such delay or damage.

15.11 UC FAIR WAGE

Contractor shall pay all persons providing construction services and/or any labor on site, including any University location, no less than the 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.



SUPPLEMENTARY CONDITIONS

1. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 11 – INSURANCE AND BONDS

Contractor shall furnish and maintain insurance in the amounts below.

The insurance required by 11.1.2.1 and 11.1.2.2 shall 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). Such insurance shall be written for not less than the following:

Minimum Requirement

11.1.2.1 Commercial General Liability Insurance-Limits of Liability

	,	
	Each Occurrence-Combined Single Limit for Bodily Injury and Property	\$ 1,000,000.00
	Products-Completed Operations Aggregate	<u>\$ 1,000,000.00</u>
	Personal and Advertising Injury	<u>\$ 1,000,000.00</u>
	General Aggregate	\$ 2,000,000.00
11.1.2.2	Business Automobile Liability Insurance-Limits of Liability Each Accident-Combined Single Limit for Bodily	\$ 1,000,000.00
	Injury and Property Damage	<u>\$ 1,000,000.00</u>

Insurance required by Paragraph 11.1.2.3 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. Such insurance shall be written for not less than the following:

11.1.2.3	WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY –	Minimum Requirement
	Worker's Compensation:	(as required by Federal and State of California law)
	Employer's Liability:	
	Each Employee	\$1,000,000
	Each Accident	\$1,000,000
	Policy Limit	\$1,000,000

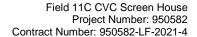


(5). MODIFICATION OF ARTICLE 8 – CONTRACT TIME

Rainy weather in excess of the following number of days will be granted a Contract Time extension pursuant to Article 8.4 of the General Conditions: 0

6. MODIFICATION OF GENERAL CONDITIONS ARTICLE 15 – MISCELLANEOUS PROVISIONS

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement. The counterparts of this Agreement may be executed via a University approved digital signature process and shall have the same force and effect as the use of a manual signature. The University reserves the right to reject any digital signature that cannot be positively verified by the University system as an authentic digital signature.





EXHIBITS

TABLE OF CONTENTS

Application for Payment

Certificate of Insurance

Certificate of Substantial Completion

Change Order

Change Order Request (with Cost Proposal Summary)

Claim Certification - General Contractor

Claim Certification - Subcontractor

Conditional Waiver and Release on Final Payment

Conditional Waiver and Release on Progress Payment

Escrow Agreement for Deposit of Securities In Lieu of Retention and Deposit of Retention

Field Order

Final Distribution of Contract Dollars

Final Inspection Acceptance

Payment Bond

Performance Bond

Report of Subcontractor Information

Selection of Retention Options

Self-Certification Form

Submittal Schedule

Substitution of Subcontractor - Indemnity Agreement and Consent

Summary of Builder's Risk Insurance Policy

Unconditional Waiver and Release on Final Payment

Unconditional Waiver and Release on Progress Payment

UC Long Form, Revision: 2, October 1, 2005 UCR Rev 2013-09-12 LF



Project Name: Field 11C CVC Screen House

Project Number: 950582

Contract Number: <u>950582-LF-2021-4</u>

APPLICATION FOR PAYMENT

Application No.	Period From:	To:	
Application Date	e:	Contract Date:	
To University :	THE REGENTS OF THE UNIV University of California, Rivers	/ERSITY OF CALIFORNIA, ide, and University's Representative	
From Contracto	r:		
	Address:		
CHANGE ORD	ER SUMMARY:	Additions	 Deductions
Change Orders	approved in previous months:	Total:	
Change Orders	approved this month:		
Number	Date Approved:		
-			
		Total: \$	- \$-
	NET C	CHANGE BY CHANGE ORDERS:	\$-
Application is m	nade for payment under the Conf	tract as shown below and in Schedule 1	attached hereto:
2. NET CHA	AL CONTRACT SUM ANGE BY CHANGE ORDERS ACT SUM TO DATE (Line 1 ± Lir	ne 2)	\$- \$-
4. TOTAL A	MOUNT COMPLETED TO DAT	•	
b. Currer	nt Value of Securities Deposited nt Value of Retention Deposited tion Held by University		
6 TOTAL F	Current Retention ARNED LESS RETENTION (Lin	,	<u>- </u>
7. TOTAL A	MOUNT PREVIOUSLY PAID	<u> </u>	Ψ
	IT PAYMENT DUE (Line 6 less E TO FINISH, PLUS RETENTIC	•	\$- \$-
,		(= = =================================	—

^{*}Pursuant to Article 9.2.2 of the General Conditions.

The undersigned Contractor hereby represents and warrants to University that all Work, for which Certificates For Payment have previously been issued and payment received from University, is free and clear of all claims, stop notices, security interests, and encumbrances in favor of Contractor, any Subcontractor, and any other persons or firms entitled to make claims by reason of having provided labor, materials, or equipment related to the Work.

The Payment:	following Schedules are attached and incorporated	herein, and made a part of this Application For
r ayırı c ını.	Schedule 1 Cost Breakdown Schedule	
	Schedule 2 Certification of Current Market Value of S	Securities in Escrow in Lieu of Retention
	Schedule 3 List of Subcontractors	
	Schedule 4 Declaration of Releases of Claims	
	Contractor:	
	Ву:	
		(Signature & Date)
		(Print Name & Title)
	DECLARAT	ION
Ι, _	(Print Name)	, hereby declare that I am the
	of	Contractor submitting this Application For
that all info	hat I am duly authorized to execute and deliver this Appl rmation set forth in this Application For Payment and all s of its date.	
I dec subscribed	elare, under penalty of perjury, that the foregoing is true at	
	(City)	(County)
State of _	on	(Date)
		,,
		(Circulus & Data)
		(Signature & Date)
		(Print Name & Title)



Project Name: Lothian Dining Patio

Project Number: 957431

Contract Number: <u>957431-IF-201-131</u>

SCHEDULE 1 COST BREAKDOWN TO APPLICATION FOR PAYMENT

Application No.	Period From:	To:	
Application Date:		Contract Date:	

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>
Item	Description of Work Activity or	Scheduled Value	%	Total Amount	Total Amount	Amount of this	Retention
No.	Other Item		Complete	Completed to	Completed on	Application	(5% x E)
			to Date	Date	Prior Application	(E - F)	
				(C x D)	For Payment		
				-		-	-
				-		-	-
				-			-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-			-
				-			-
				-		-	-
				-		-	-
				-			-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				-		-	-
				\$-	\$-	\$-	\$-



Project Name: Lothian Diniing Patio

Project Number: 957431

Contract Number: 957431-IF-2018-131

SCHEDULE 2 CERTIFICATION OF CURRENT MARKET VALUE OF SECURITIES IN ESCROW IN LIEU OF RETENTION TO APPLICATION FOR PAYMENT

Application No.	Period From:	To:		
Application Date:		Contract Date:		
As of	(not earlier	than 5 days prior to the date of	the Application For Pa	yment
		e market value of securities on	deposit in Escrow	
Account No.	with			
	-	(E	scrow Agent)	
is			Dollars (\$).
	(5			
	(Escrow Agent)		(Contractor)	
_		_		
By:	(Sign & Date)	By:	(Sign & Date)	
	(Olgifi & Date)		(Oigh & Date)	
	(Print Name & Title)		(Print Name & Title)	

NOTE: Notary acknowledgment for Contractor and Escrow Agent must be attached.



Project Name: Lothian Dining Patio

Project Number: 957431

Contract Number: 957431-IF-2018-131

SCHEDULE 3 LIST OF SUBCONTRACTORS TO APPLICATION FOR PAYMENT

Application No.	Period From:	To:	_
Application Date:		Contract Date:	
		ectors furnishing labor, services, or mater ced above, of which this Schedule 3 is a	
Name of	Subcontractor	Subcontracted Work Activity	Date Work Activity Completed
		'	
		(Contracto	or)
		By:(Sign	& Date)

(Print Name & Title)



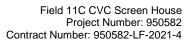
Project Name: Lothian Dining Patio

Project Number: 957431

Contract Number: 957431-IF-2018-131

SCHEDULE 4 DECLARATION OF RELEASE OF CLAIMS TO APPLICATION FOR PAYMENT

Application No.	Period From:	To:	
Application Date:		Contract Date:	_
Subcontractors furnis	hing labor, services, or mat	reto are releases and waivers of claims erials covered by the Certificate For Pa except for those listed below:	· · · · · · · · · · · · · · · · · · ·
Name	of Subcontractor	Subcontracted Work Activit	Date Work Activity Completed
		(Col	ntractor)
		Ву:	(Sign & Date)
		(P	Print Name & Title)

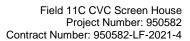




CERTIFICATE OF SUBSTANTIAL COMPLETION

Contr	ractor:	Date of Issuance:						
	ork has been reviewed and the date of Substance above.	cantial Completion is hereby established as of the date						
A Certi	ificate of Occupancy has been issued by the I	University's Building Official Name, Title on Date.						
such lis		s included herein. The failure to include any items on tor to complete all of the Work in accordance with the						
In acco	ordance with the Contract Documents, Contra	ctor is notified as follows:						
1.		to fully complete the Work within the Contract Time, ork on the list of items ("Punch List") attached hereto tial Completion.						
2.	2. University will be responsible for INSERT "NONE" OR STATE ANY UNIVERSITY RESPONSIBILITIES AFTER SUBSTANTIAL COMPLETION: security, maintenance, utilities (e.g. water, sewer, electrical, gas, etc.)							
3.	Contractor shall be responsible for all Con University set forth in Paragraph 2 above.	stract requirements except items or responsibilities of						
4.	List of items to be completed or corrected: ITEMS TO BE COMPLETED OR CORRECT	INSERT "NONE" or "SEE ATTACHMENT: LIST OF TED."						
UNIV	ERSITY'S REPRESENTATIVE	UNIVERSITY: By: The Regents of the University of California University of California, Riverside						
-	(Signature & Date) Scott Donnell	(Signature & Date) Blythe R. Wilson, Architect						
	Senior Project Manager	Director of Project Management						
-	Planning, Design & Construction (Print Name & Title)	Planning, Design & Construction (Print Name & Title)						

cc: Office of Risk Management





PUNCH LIST OF ITEMS TO BE COMPLETED OR CORRECTED

ATTACHMENT TO CERTIFICATE OF SUBSTANTIAL COMPLETION ISSUED

Contractor:



ACORD

CERTIFICATE OF LIABILITY INSURANCE

(for non-UCIP Construction Projects and Consultant/Design Contracts)

DATE	(MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

PRODU	CER								CONTAC NAME:	т				
									PHONE (A/C, No	Evt).			FAX (A/C, No):	
									E-MAIL ADDRES				(40, 10).	
									7.001.20		URER(S) AFFOR	DING COVERAGE		NAIC #
									INSURE	RA:				
INSURE	D								INSURE	RB:				
									INSURE	RC:				
									INSURE	RD:				
									INSURE	RE:				
									INSURE					
COVI			EV TUAT		IFICATE				HOOLIE		ISION NUM		OLIOV DEDIC	D INDICATED
NOT ISSL	WIT IED	HSTANDI OR MAY	NG ANY PERTAIN	REQUIRE I, THE IN	EMENT, TEI SURANCE	RM OI AFFO	R COI	LISTED BELOW HAVE BEEN NDITION OF ANY CONTRACTORY THE POLICIES DESCRIBEDUCED BY PAID CLAIMS.	T OR OT	HER DOCUME	NT WITH RES	PECT TO WHICH	THIS CERTIF	ICATE MAY BE
INSR LTR		T	PE OF IN	SURANCE		ADDL INSR	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)		LIMITS	
	GE	NERAL LIA	BILITY											
		COMMER	CIAL GEN	ERAL LIAE	BILITY									
		CLA	MS-MADE	00	CCUR									
	GEN'L	AGGRE	GATE LIM		S PER:									
		POLICY	PRC JECT		LOC									
	AU'	томовіс	LIABILIT	Y										
		ANY AUT												
		ALL OWN AUTOS	ED	AUTO	DULED S									
		HIRED AL	JTOS	NON-0 AUTO	OWNED S									
		UMBREL	LALIAB	7 1	CCUR									
		EXCESS			LAIMS-MADE									
		DED	RETEN		ZAINIO-INIADE									
		ORKERS CO	OMPENSA	TION								WC STATU- TORY LIMITS	OTH- ER	
	AN AN	I D EMPLOY IY	ERS' LIAB	ILITY	Y/N	}						TOTAL ENVITO	LIX	
	PR	OPRIETOR FICER/MEN			/E	N/A								
	(Ma	andatory in	NH)	LODED.										
		es, describe un SCRIPTION												
	PRO	OFESSION	AL LIABILI	TY -	CCUR LAIMS-MADE									
Sneci	al Pr	ovisions:					<u> </u>	l		I	l			
-	The	Regents of	f the Univ	ersity of C	alifornia, The	e Unive	ersity o	of California, University, and eac	h of their	Representatives	s, consultants, of	ficers, agents, emplo	oyees, and eac	h of their
	Rep	resentative	e's consult	ants, are i	ncluded as a	dditior	nal insi	ureds on the general liability poli	icy as rec	uired by contrac	t and pursuant to	additional insured	endorsement C	G2010 (11/85) or a
	com 202		both CG	2010 (10/0) i or 07/04) a	and C(203 ر	7 (10/01 or 07/04) but only in cor	nection	with Field 11C C	VC Screen Hou	ise, Project No. 950	1582, Contract	No. 950582-LF-
2.	The	General L						erest provision and shall be prim The Regents of the University o						icers, agents and
CEDT	EIC	ATE UA	I DED.	The Poo	ionte of th	عال م	iver	eity of California						
CERI	IFIC	AIE AU	LUEK:	ine Reg	jenio di th	e on	ivers	sity of California						

Forward to: UCR CAPITAL PROGRAMS

PLANNING, DESIGN & CONSTRUCTION, ATTN: CONTRACTS

1223 UNIVERSITY AVENUE, SUITE 240

RIVERSIDE, CA 92507

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2010 ACORD CORPORATION. All rights reserved. ACORD 25 (2010/05) The ACORD name and logo are registered marks of ACORD



CHANGE ORDER REQUEST

D	ate:	Change Order Request (COR) No
Sc	ope of Change:	
ns	tructions:	
1.	upon the Contract Schedule for any proposed a	ation required above, (b) the amount and justification based adjustment of Contract Time, (c) the proposed adjustment of I Summary," and (e) the attached form entitled, "Supporting "."
2.	Subcontractor involved in the Extra Work. Each Subcontractor actually performing the Work Actually performed the Work Actually performance and	tion for the Cost Proposal Summary" for Contractor and each h such form shall be completed and signed by Contractor or stivity identified on the form. Attach supporting data to each costs. The costs provided on these forms shall be used to st Proposal Summary.
3.	involved in the Extra Work; and shall constitute	Cost of Extra Work of Contractor and each Subcontractor e full compensation for all costs and expenses related to the g Documentation for the Cost Proposal Summary," including
ŀ.	Refer to Article 7.3 of the General Conditions for	or the method of computing the Contractor Fee.
	Adjustment of the Contract Time (Include justi	
	Refer to Article 8 of the General Conditions.	(Days)
	Adjustment of the Contract Sum (Total from Li Refer to Article 7 of the General Conditions.	ine 18, Col. 4 of Cost Proposal Summary): \$
Sı	ubmitted: CONTRACTOR	Received: UNIVERSITY'S REPRESENTATIVE
	(Company Name)	<u> </u>
	(Signature & Date)	(Signature & Date) Scott Donnell
		Senior Project Manager
	(Print Name & Title)	Planning, Design & Construction (Print Name & Title)
c:	Executive Director, Architects & Engineer	rs, Capital Programs

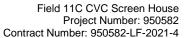


COST PROPOSAL SUMMARY

Contractor:	COR No.	

		(1)	(2)	(3)	(4)
		Contractor	1st Tier Subs	2nd & Lower Tier	Total
				Subs	
	Straight Time Wages/Salaries-Labor				-
	Fringe Benefits and Payroll Taxes-Labor				-
	3. Overtime Wages/Salaries-Labor				-
	4. Fringe Benefits & Payroll Taxes-Overtime				-
	5. Materials & Cnsumable Items				-
ACTUAL COSTS	6. Sales Taxes (On Line 5)				-
	7. Rental Charges				-
	8. Royalties				-
	9. Permits				-
	10. Total Direct Expense (Sum of Lines 1-9)	\$-	\$-	\$-	\$-
	11. Insurance & Bonds (up to 2% of Line 10)	-	-	-	-
	12. Sub-Sub (15% of Line 10, Col. 3)			-	-
	13. Subcontractor (5% of Line 10, Col. 3)		-		-
CONTRACTOR	14. Subcontractor (15% of Line 10, Col. 2)		-		-
FEE	15. Contractor (5% of Line 10, Col. 2 & 3)	-			-
	16. Contractor (15% of Line 10, Col. 1)	-			-
	17. Contractor Fee (Sum of Lines 12-16)	\$-	\$-	\$-	\$-
TOTAL	18. Sum of Lines 10, 11, & 17	\$-	\$-	\$-	\$-

Actual Costs are taken from Line 12 of the attached forms entitled, "Supporting Documentation For the Cost Proposal Summary" for Contractor and each Subcontractor involved in the Extra Work.





Supporting Documentation

SUPPORTING DOCUMENTATION FOR THE COST PROPOSAL SUMMARY

From:	(Contract	or/Subcontractor Name)	R No
Work Activity	,	on Subcontractor Name;	
COST ITEM	DESCRIP	TION	COST ⁽¹⁾
ACTUAL COSTS	Straight Time Wages/Salaries-Labor Eringe Benefits & Payroll Taxes-Labor Overtime Wages/Salaries-Labor (Attwritten authorization.) Fringe Benefits & Payroll Taxes-Ove Materials & Consumable Items Sales Taxes:% of Line 5 Rental Charges (Attach CalTrans' So	or:% of Line 1 ach University's Representative's rtime:% of Line 3	
	8. Royalties 9. Permits 10. Total Direct Expense (Sum of Lines 11. Insurance & Bonds% of Line ^	s 1-9)	\$- -
TOTAL	12. Sum of Lines 10 & 11		\$-
Prepared B	y: ⁽²⁾	CONTRACTOR:(3)	
	(Company Name)	(Company Name)	
	(Signature & Date) (Print Name & Title)	(Signature & Date) (Print Name & Title)	

Notes:

- (1) This form shall be prepared and signed by Contractor or Subcontractor actually performing the Work Activity indicated above.
- (2) If this form is signed by a Subcontractor, it shall be reviewed and signed by Contractor certifying the accuracy of the information.



ject Name: Field 11C CVC Screen House

Project Number: 950582

Contract Number: 950582-LF-2021-4

CHANGE ORDER

Description of Change continued on Page 2. Subtotal from Page 2: Description of Change continued on Page 2. Subtotal from Page 2: Description of Change continued on Page 2. Subtotal from Page 2: Description of Change continued on Page 2. Subtotal from Page 2: Adjustment of Contract Sum: Original Contract Time: Original Final Contract Time: Original Final Completion Date: Revised Contract Time: Original Final Completion Date: Revised Final Compl	Contract Date:	Char	nge Order No.:		
Attn: Address: DESCRIPTION OF CHANGE: (Reference attachments) Description of Change continued on Page 2. Subtotal from Page 2: Adjustment of Contract Sum: Original Contract Time: Original Final Competion Date: Start Date: Original Final Competion Date: Revised Contract Time: Original Final Completion Date: Revised Final Completion			Date Issued:		
DESCRIPTION OF CHANGE: (Reference attachments) Description of Change continued on Page 2. Subtotal from Page 2: Description of Change continued on Page 2. Subtotal from Page 2: Adjustment of Contract Sum: Original Contract Sum: Original Contract Time: Original Final Completion Date: Revised Contract Sum: Original Final Completion Date: Revised Contract Time: Original Final Completion Date: Revised Contract Time: Original Final Completion Date: Revised Contract Sum and the Contract Time related to the above described change in the Work. Accepted: By: Contractor Revised Final Completion Date: Revised Contract Time: R	To Contractor:				
DESCRIPTION OF CHANGE: (Reference attachments) Contract Sum	Attn:				
Description of Change continued on Page 2. Subtotal from Page 2: Adjustment of Contract Sum:	Address:				
Description of Change continued on Page 2. Subtotal from Page 2: Description of Change continued on Page 2. Subtotal from Page 2: \$0.00 0	<u></u>				
Description of Change continued on Page 2. Subtotal from Page 2: Adjustment of Contract Sum:	DESCRIPTION OF CHANGE: (Reference attachme	nts)			
Description of Change continued on Page 2. Subtotal from Page 2: Souther Sum:	1.				
Description of Change continued on Page 2. Subtotal from Page 2: Souther Sum:					
Description of Change continued on Page 2. Subtotal from Page 2: \$0.00					
Adjustment of Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Time: Origi	2.				
Adjustment of Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Time: Origi					
Adjustment of Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Time: Origi					
Adjustment of Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Time: Origi	L				
Adjustment of Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Sum: Original Contract Time: Origi	Description of Change continued on Page	2 Subtotal from Page 2	\$0.00		0
Original Contract Time: 0 (Days) Prior Adjustments: Prior Adjustments: 0 (Days) Contract Sum before this Change: 4-Adjustment for this Change: 4-Adjustment		•			
Prior Adjustments:				0	(Dave)
Contract Sum before this Change: Adjustment for this Change: Revised Contract Time before this Change: Revised Contract Time: Start Date: Original Final Completion Date: Revised Final Co			iiiie.		
Adjustment for this Change: Revised Contract Sum: \$ Revised Contract Time:	•		re this Change:	_	
Revised Contract Sum: Start Date: Original Final Completion Date: Revised Contract Time: Revised Final Completion Date: Revised Final Completion Revised Final				0	
Original Final Completion Date: Revised Final Completion Date: Revised Final Completion Date: ####################################	Revised Contract Sum:	\$- Revised Contract T	ïme:	0	
Revised Final Completion Date: ####################################					
Contractor waives any claim for further adjustments of the Contract Sum and the Contract Time related to the above described change in the Work. Accepted: By: Contractor (Signature & Date) (Print Name & Title) Recommended: By: University's Representative Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California Signature & Date Susan McFadden Senior Financial Analyst Planning, Design & Construction Planning, Design & Construction					
to the above described change in the Work. Accepted: By: Contractor (Signature & Date) (Print Name & Title) Recommended: By: University's Representative Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Account No.: Account No.: Account No.: Blythe R. Wilson, Architect Director of Project Management Account No.: Fund: Fund: Function:					
Account No.: Activity Code: Account No.: Activity Code: Director of Project Management Funds Sufficient Account No.: Activity Code: Event Sufficient Eve		ents of the Contract Sun	n and the Contra	ct Time ı	related
By: Contractor (Signature & Date) Recommended: By: University's Representative Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California Account No.: Blythe R. Wilson, Architect Director of Project Management Account No.: Fund: Account No.: Function:	to the above described change in the Work.				
(Signature & Date) Recommended: By: University's Representative Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Susan McFadden Senior Financial Analyst Planning, Design & Construction (Print Name & Title) Account No.: Account No.: Activity Code: Function:					
Recommended: By: University's Representative Signature & Date Scott Donnell Susan McFadden Senior Project Manager Planning, Design & Construction Planning, Design & Construction Planning, Design & Title) Approved: University: The Regents of the University of California Cisignature & Date Susan McFadden Senior Financial Analyst Planning, Design & Construction Planning, Design & Const	By: Contractor				
Recommended: By: University's Representative Signature & Date Scott Donnell Susan McFadden Senior Project Manager Planning, Design & Construction Planning, Design & Construction Planning, Design & Title) Approved: University: The Regents of the University of California Cisignature & Date Susan McFadden Senior Financial Analyst Planning, Design & Construction Planning, Design & Const					
Recommended: By: University's Representative Signature & Date Scott Donnell Susan McFadden Senior Project Manager Planning, Design & Construction Planning, Design & Construction Planning, Design & Title) Approved: University: The Regents of the University of California Cisignature & Date Susan McFadden Senior Financial Analyst Planning, Design & Construction Planning, Design & Const	(Signature & Date)	_			
Recommended: By: University's Representative Signature & Date Scott Donnell Susan McFadden Senior Project Manager Senior Financial Analyst Planning, Design & Construction Planning, Design & Cons					
Recommended: By: University's Representative Signature & Date)					
By: University's Representative By: Financial Administrative Officer	(Print Name & Title)				
(Signature & Date) Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Susan McFadden Senior Financial Analyst Planning, Design & Construction (Print Name & Title) (Print Name & Title) Account No.: Blythe R. Wilson, Architect Director of Project Management Account No.: Function:					
Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management Susan McFadden Senior Financial Analyst Planning, Design & Construction (Print Name & Title) (Print Name & Title) Account No.: Activity Code: Function:	By: University's Representative	By: Financial Adminis	strative Officer		
Scott Donnell Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management Susan McFadden Senior Financial Analyst Planning, Design & Construction (Print Name & Title) (Print Name & Title) Account No.: Activity Code: Function:					
Senior Project Manager Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management Senior Financial Analyst Planning, Design & Construction (Print Name & Title) Account No.: Activity Code: Function:	(Signature & Date)	_	(Signature & Date)		
Planning, Design & Construction (Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management Planning, Design & Construction (Print Name & Title) Account No.: Activity Code: Function:		_			
(Print Name & Title) Approved: University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management (Print Name & Title) (Print Name & Title) (Print Name & Title) (Account No.: Activity Code: Function:	,			•	
University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management Account No.: Function:		Piann		truction	
University: The Regents of the University of California (Signature & Date) Blythe R. Wilson, Architect Director of Project Management Fund: Function:	Approved:				
Blythe R. Wilson, Architect Director of Project Management Account No.: Account N	• •				
Blythe R. Wilson, Architect Director of Project Management Account No.: Account N					
Blythe R. Wilson, Architect Director of Project Management Account No.: Account N					
Director of Project Management Fund: Function:		Account No.:	Activity Code:	,	
,	· · · · · · · · · · · · · · · · · · ·	Fund:	Function:		
	, ,	Cost Center:	Project Code:		



ject Name: Field 11C CVC Screen House

Project Number: 950582

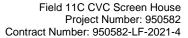
Contract Number: 950582-LF-2021-4

CHANGE ORDER

Contract Date:	Change Order No.:			
		(Page 2)		
DESCRIPTION OF CHANGE - CONTINUED	Contract Sum <u>Adjustment</u>	Contract Time Adjustment		
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

UCR Rev 2011-09-20

Subtotals: \$0.00



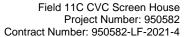


CLAIM CERTIFICATION - GENERAL CONTRACTOR

Pursuant to Article 4.3.3 of the General Conditions, I certify as follows:

- 1. The Claim to which this certification is attached is made in good faith.
- 2. Amounts claimed for costs, expenses and damages incurred by Contractor are accurate and complete. Supporting data for amounts incurred by Contractor is accurate and complete. Any such supporting data, including any such new amounts, submitted after the execution of this certification, will be accurate and complete.
- 3. To the best of my knowledge and belief, amounts claimed, and supporting data submitted by Contractor on behalf of any and all subcontractors or suppliers, of all tiers, or any person or entity under Contractor, are accurate and complete. Contractor will not submit, after the date of execution of this certification, any such supporting data, including any such new amounts that, to the best of my knowledge and belief, is not accurate and complete.
- 4. The amount requested accurately reflects the adjustment of the Contract Sum for which the Contractor believes the University is liable.
- 5. Attached hereto is a certification that has been executed by each Subcontractor claiming not less than 5% of the total monetary amount sought by the claim to which this certification is attached.
- 6. I am duly authorized to certify the Claim on behalf of the Contractor.

i deciare under pen	alty of perjury under the	e laws of the St	ate of California that the	foregoing is true	and		
correct and that this declaration was executed at							
			(Name of City if within a City, otherwise,	Name of County)	/)		
in the State of		, on	(Date)				
	(Name of State)		(Date)				
4)	Name of Contractor)						
By:							
Бу.	(Signature)						
	(Print Name & Title)						



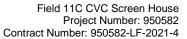


CLAIM CERTIFICATION - SUBCONTRACTOR

Pursuant to Article 4.3.3 of the General Conditions, I certify as follows:

- 1. The portion of the Claim made on behalf of the Subcontractor to which this certification is attached is made in good faith.
- 2. Amounts claimed for costs, expenses and damages incurred by the Subcontractor are accurate and complete. Supporting data for amounts incurred by the Subcontractor is accurate and complete. Any such supporting data, including any such new amounts, submitted to Contractor after the execution of this certification, will be accurate and complete.
- 3. To the best of my knowledge and belief, amounts claimed, and supporting data submitted to Contractor by the Subcontractor on behalf of any and all subcontractors or suppliers to Subcontractor, of all tiers, or any person or entity under Subcontractor, are accurate and complete. Subcontractor will not submit, after the date of execution of this certification, any such supporting data, including any such new amounts that, to the best of my knowledge and belief, is not accurate and complete.
- 4. The amount requested accurately reflects the amount for which the Subcontractor believes the University is liable to Contractor.
- 5. I am duly authorized to certify the Claim on behalf of the Subcontractor.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and						
correct and that this declaration was executed at						
in the State of (Name of State)		, on _	(Date)	·		
(Nam	ne of Subcontractor)					
By:						
	(Signature)					
-	(Print Name & Title)					





CONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT

NOTICE:

THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Identifying Information	on:
Name of Claimant:	
Name of Customer:	
Job Location:	Filed 11C CVC Screen House, Project No. 950582
	University of California, Riverside, City of Riverside, County of Riverside
Owner:	The Regents of the University of California
claimant has for lab- customer on this job delivered, pursuant to to the date that this document, unless lis claimant's receipt of Maker of Check:	and Release: es and releases lien, stop payment notice, and payment bond rights the or and service provided, and equipment and material delivered, to the Rights based upon labor or service provided, or equipment or material of a written change order that has been fully executed by the parties prior document is signed by the claimant, are waived and released by this sted as an Exception below. This document is effective only on the payment from the financial institution on which the following check is
Chaole Dayable to	
of:	not affect any of the following: Disputed claims for extras in the amount
Signature:	
Claimant's Signature	& Date:
Claimant's Name & T	Title:

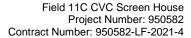


CONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT

NOTICE:

THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Identifying Information	on:
Name of Claimant:	
Name of Customer:	
Job Location:	Field 11C CVC Screen House, Project No. 958582
	University of California, Riverside, City of Riverside, County of Riverside
Owner:	The Regents of the University of California
Through Date:	
Conditional Waiver a	nd Release:
claimant has for labor on this job through the or equipment or mate by the parties prior to by this document, ur	es and releases lien, stop payment notice, and payment bond rights the and service provided, and equipment and material delivered, to the customer experience. Through Date of this document. Rights based upon labor or service provided, trial delivered, pursuant to a written change order that has been fully executed the date that this document is signed by the claimant, are waived and released alless listed as an Exception below. This document is effective only on the payment from the financial institution on which the following check is drawn:
Maker of Check:	
Amount of Check: \$	
Check Payable to:	
(1) Retentions.(2) Extras for which t(3) The following pro-	not affect any of the following: he claimant has not received payment. gress payments for which the claimant has previously given a conditional se but has not received payment:
Date(s) of Wai	ver and Release:
(4) Contract rights, in	Unpaid Progress Payment(s): \$
Signature:	
Claimant's Signature	& Date:
Claimant's Name & T	itle:
Prime Contractor's Appli	cation for Payment #





RETURN THIS AGREEMENT SIGNED BY CONTRACTOR AND ESCROW AGENT TO: UNIVERSITY OF CALIFORNIA, RIVERSIDE Planning, Design & Construction 1223 University Ave, Suite 240 Riverside, CA 92507 USE THIS ADDRESS FOR ALL CORRESPONDENCE

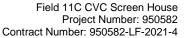
Escrow Account No.:		

ESCROW AGREEMENT FOR DEPOSIT OF SECURITIES IN LIEU OF RETENTION AND DEPOSIT OF RETENTION

This Escrow Agreement is made as of	, and entered into by and between
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, hereinafter called "University	
	. ,
whose address is	,
hereinafter called "Contractor," and	,
a state or federally chartered bank in the state of California, whose address	s is
hereinafter called "Escrow Agent."	
For consideration hereinafter set forth, University, Contractor, and	Escrow Agent agree as follows:
(1) Contractor has the option to deposit securities with Escrov required to be withheld by University pursuant to the Contract Documents, hentered into between University and Contractor for the Project titled	
Filed 11C CVC Screen House	1
Project Number , in the amount of \$,
dated Alternatively, on written request of	Contractor, University shall deposit
retention directly with Escrow Agent. Contractor and its surety shall be at selected. When Contractor deposits the securities as a substitute for re University within 5 days after the deposit. At all times, Contractor shall ha value of which is at least equal to the cash amount then required to be wit of the Contract. Securities shall be held in the name of The Regents of the and Contractor shall be designated as the beneficial owner.	etention, Escrow Agent shall notify ve on deposit securities the market thheld as retention under the terms

Escrow Agent shall review the market value of securities deposited in escrow under this Escrow

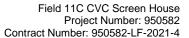
Agreement as often as conditions of the securities market warrant, but in no case less than once per month. Escrow Agent shall promptly notify University and Contractor of the market value of the deposited securities if such market value is less than the total amount of retention required to be withheld under the terms of the Contract. Contractor shall promptly deposit additional securities so that the current market value of the total of





all deposited securities shall be at least equal to the total required amount of retention. Escrow Agent shall, within 5 days after University's request, provide a statement to University of the current market value of all securities deposited under this Escrow Agreement as of a date not earlier than 5 days prior to such request. The provisions of this Paragraph 2 shall not apply to securities consisting of monetary deposits as allowed by Paragraph 7 held by a bank as Escrow Agent, provided the bank provides monthly statements reflecting the status of the monetary deposits held by the bank to University and Contractor.

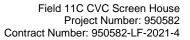
- (3) Contractor shall not use any or all of the securities deposited in lieu of retention under this Escrow Agreement for any other obligations, including deposits in lieu of retention for other contracts. Contractor represents, covenants and warrants that all deposited securities shall be lien free when tendered to the Escrow Agents and shall remain lien free during their retention by the Escrow Agent.
- (4) University shall make progress payments to Contractor for those funds which otherwise would be withheld from progress payments pursuant to the Contract provision, provided that Escrow Agent holds securities in the form and amount specified herein.
- (5) Prior to Contractor's submission of each Application For Payment, Escrow Agent shall issue a current statement of (a) the value of the securities currently being deposited in lieu of retention and (b) the current value of all securities being held in escrow pursuant to this Escrow Agreement. Such statement shall be no more than 5 days old at the time of submission, shall be notarized or have a guarantee of signature, and shall be submitted to Contractor with a copy to University under separate cover. Contractor shall attach such original statement to each Application For Payment. The provisions of this Paragraph 5 shall not apply to securities consisting of monetary deposits as allowed by Paragraph 7 held by a bank as Escrow Agent, provided the bank provides monthly statements reflecting the status of the monetary deposits held by the bank to University and Contractor.
- (6) If, at the request of Contractor, University deposits retention directly with Escrow Agent, Escrow Agent shall hold such retention for the benefit of Contractor until such time as the escrow created under the Contract is terminated. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when University deposits retention directly with Escrow Agent.
- (7) University will allow Contractor to deposit the following securities in lieu of retention and direct the investment of the retention deposits into any of the following which at the time of payment are legal investments under the laws of the State of California:
 - a. Direct obligations of the United States of America (including obligations issued or held in book-entry form on the books of the Department of the Treasury of the United States of America or any Federal Reserve Bank), or obligations the timely payment of the principal of and interest on which are fully guaranteed by the United States of America, or tax-exempt obligations which are rated in the highest rating category of a nationally recognized bond rating agency.
 - b. Obligations, debentures, notes or other evidence of indebtedness issued or guaranteed by any of the following: Banks for Cooperatives, Federal Intermediate Credit Banks, Federal Home Loan Bank System, Export-Import Bank of the United States, Federal Financing Bank, Federal Land Banks, Federal Farm Credits, Government National Mortgage Association, Farmer's Home Administration, Federal Home Loan Mortgage Corporation, or Federal Housing Administration.
 - c. Bonds of the State of California or those for which the faith and credit of the State of California are pledged for the payment of principal and interest.
 - d. Interest-bearing bankers acceptances and demand or time deposits (including certificates of deposit) in banks, provided such deposits are either (1) secured at all times, in the manner and to the extent provided by law, by collateral security described in clauses a or b of this Paragraph 7 continuously having a market value at least equal to the amount so invested so long as such underlying obligations or securities are in the possession of the Securities Investors Protection





Corporation, (2) in banks having a combined capital and surplus of at least One Hundred Million Dollars, or (3) fully insured by the Federal Deposit Insurance Corporation.

- e. Taxable government money market portfolios restricted to obligations with maturities of one (1) year or less, issued or guaranteed as to payment of principal and interest by the full faith and credit of the United States of America.
- f. Commercial paper rated in the highest rating category of a nationally recognized rating agency, and issued by corporations organized and operating within the United States of America and having total assets in excess of Five Hundred Million Dollars.
- (8) Contractor shall be responsible for paying all fees, costs, and expenses incurred by Escrow Agent in administering the escrow account. These expenses and payment terms shall be determined by Contractor and Escrow Agent. All fees, costs, and expenses of this Escrow Agreement and any transactions carried out hereunder shall be billed by Escrow Agent to Contractor. In the event that any fees, costs, or expenses shall remain unpaid in excess of 30 days from the date due, Escrow Agent may withhold such unpaid amount from any income distributable to Contractor, but shall not withhold such unpaid amount from any income distributable to University.
- (9) Interest earned on the securities or the money market accounts held in escrow and all interest earned on the interest shall be for the sole account of Contractor and shall be held in escrow. Interest may be withdrawn by Contractor from time to time, without notice to University, only to the extent that the total amount held in escrow meets or exceeds the required amount of retention.
- (10) Except as provided in Paragraph 9, Contractor shall have the right to withdraw all or any part of the escrow account only by written notice to Escrow Agent accompanied by written authorization from University to Escrow Agent stating that University consents to the withdrawal of the amount sought to be withdrawn by Contractor. University shall not be obligated to consent to any withdrawal to the extent of stop notice claims which cannot be satisfied from other funds then due and payable to Contractor.
- (11) University shall have the right to draw upon the securities, any interest earned on the securities, and any interest earned on the interest in the event of default by Contractor. Upon 7 days written notice to Escrow Agent from University, with a copy to Contractor, Escrow Agent shall immediately convert the securities, any interest earned on the securities, and all interest earned on the interest to cash and shall distribute the cash as instructed by University. Escrow Agent shall have no duty to determine whether a default has occurred and may rely solely upon the written notice of such default from University.
- (12) Upon receipt of written notification from University certifying that final payment is due under the Contract, Escrow Agent shall release to Contractor the amount, if any, by which the value of all securities and interest on deposit less escrow fees and charges of the escrow account exceeds 125% of all stop notice claims on file. Escrow Agent shall pay the remaining amount to University or as directed by University. The escrow shall be closed immediately upon disbursement of all monies and securities on deposit and payment of fees and charges.
- (13) Escrow Agent shall rely upon the written notifications from University and Contractor pursuant to this Escrow Agreement; and University and Contractor shall hold Escrow Agent harmless from Escrow Agent's release, conversion, and disbursement of the securities and interest as set forth herein.
- (14) Escrow Agent shall have the right to terminate this Escrow Agreement upon 30 days notice to all parties hereunder. Upon receipt of such notice, University and Contractor shall appoint a successor Escrow Agent in writing and deliver written notice of such appointment to Escrow Agent. Thereupon, Escrow Agent shall deliver all assets in its custody to such successor Escrow Agent and all responsibility of Escrow Agent under this Escrow Agreement shall terminate; provided, however, if Contractor and University fail to appoint a successor Escrow Agent on or before the end of the 30 day notice period, then Escrow Agent is authorized and instructed to return all assets, documents, and other items in its custody to University and this Escrow Agreement shall be terminated without further instruction.





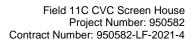
(15) The duties and responsibilities of Escrow Agent shall be limited to those expressly set forth in this Escrow Agreement; provided, however, that, with Escrow Agent's written consent, the duties and responsibilities in this Escrow Agreement may be amended at any time or times by an instrument in writing signed by all parties.

	(16) Whenever Contractor tenders secuesentative of the Contractor shall declare under ain lien free during their retention by the Escrow	penalty of perju	
	"The undersigned, on behalf of	(Name of 0	whose address is
		Idress, City, State & Zip (,
		e securities ten	ndered herewith are lien free and shall remain
	l,(Name)		, hereby declare that I am the
	(Name)		
	(Title)	of	(Name of Contractor)
	of the State of California that the foregoing		d that I declare under perjury under the laws rect."
		(Signature)	(Date)
resp parti	niversity and on behalf of Contractor in connect ective signatures, are as set forth below. Succes. behalf of University:	th names may	
•	asilali oi cilitorolly.		
1.		1.	
•	(Signature) Blythe R. Wilson, Architect		(Signature)
	Director of Project Management Planning, Design & Construction		
	(Print Name & Title)	_	(Print Name & Title)
	951.827.1485		
	331.027.1403		
	(Telephone Number)		(Telephone Number)
2.	(Telephone Number)	2	· · · · · · ·
2.	(Telephone Number) (Signature)	_ 2	(Telephone Number) (Signature)
2.	(Telephone Number) (Signature) Bobbi McCracken	2.	· · · · · · · · · · · · · · · · · · ·
2.	(Telephone Number) (Signature)	_ 2	· · · · · · · · · · · · · · · · · · ·

951.827.3303

(Telephone Number)

(Telephone Number)

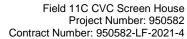




Contractor, Escrow Agent, and University hereby agree to the covenants contained herein.

IN WITNESS WHEREOF, Contractor, Escrow Agent, and University have executed this Escrow Agreement, the day and year first written above.

Unive	rsity:	Contractor:	
Ву:	(Signature)	Ву:	(Signature)
-	(Signature)	<u> </u>	(Signature)
	Blythe R. Wilson, Architect		
	Director of Project Management		
	Planning, Design & Construction (Print Name & Title)		
	(Print Name & Title)		(Print Name & Title)
	951.827.1485		
_	(Telephone Number)		(Telephone Number)
By:		By:	
υу	(Signature)	Бу	(Signature)
	Bobbi McCracken		(C.g. Liet)
	Associate Vice Chancellor and Controller		
	Business and Financial Services		
-	(Print Name & Title)		(Print Name & Title)
_	951.827.3303		
	(Telephone Number)		(Telephone Number)
Escro	w Agent:		
By:			
υу	(Signature)		
_	(Print Name & Title)		
-	(Telephone Number)		



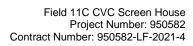


FIELD ORDER

Attn: Address: Description of Work Adjustment, Contract Sum 1. 2. By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager	Contract Date:		Field Order	No
Description of Work Adjustment, Contract Sum 1. 2. By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager	To Contractor:		<u></u>	
Adjustment, Contract Sum Contract Sum Time 1. 2. By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager		Address:	<u></u>	
Adjustment, Contract Sum Contract Sum Time 1. 2. By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager				
2. By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager		Description of Work	Adjustment, Contract	Estimated Adjustment, Contract Time
By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager	1.			
By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager				
By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager	2.			
By University's Representative: (Signature & Date) Scott Donnell Senior Project Manager				
(Signature & Date) Scott Donnell Senior Project Manager	3.			
(Signature & Date) Scott Donnell Senior Project Manager				
(Signature & Date) Scott Donnell Senior Project Manager				
Scott Donnell Senior Project Manager	By University's	Representative:		
(Print Name & Title)	Plan	Scott Donnell		

NOTE: If the work described above constitutes a change, this Field Order will be superseded by a Change Order that will include the scope of the change in the Work and any actual adjustments of the Contract Sum and the Contract Time.

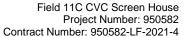
cc: Director of Project Management, Planning, Design & Construction





FINAL INSPECTION ACCEPTANCE

Contract Date:	Final Inspection Date:
To Contractor:	
Attn:	
A dalana a a .	
Address.	
	as of the above Final Inspection Date. No outstanding work als have been received. All training has been performed
The following Change Orders for time and/or mo	ney ONLY remain unexecuted:
	Final Inspection Acceptance, Contracts Administration county recorder's office. This action terminates the
will file a Notice of Completion with the construction contract for this Project.	county recorder's office. This action terminates the
will file a Notice of Completion with the o	
will file a Notice of Completion with the construction contract for this Project.	By: Design Professional
will file a Notice of Completion with the construction contract for this Project. By: Inspector	By: Design Professional N/A
will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date)	By: Design Professional
will file a Notice of Completion with the construction contract for this Project. By: Inspector	By: Design Professional N/A
will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector Planning, Design & Construction	By: Design Professional N/A (Signature & Date)
will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector	By: Design Professional N/A (Signature & Date)
will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector Planning, Design & Construction	By: Design Professional N/A (Signature & Date)
will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector Planning, Design & Construction (Print Name & Title) By: University's Representative	By: Design Professional N/A (Signature & Date) N/A (Print Name & Title) By: University's Responsible Administrator
Will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector Planning, Design & Construction (Print Name & Title) By: University's Representative	By: Design Professional N/A (Signature & Date) By: University's Responsible Administrator (Signature & Date)
will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector Planning, Design & Construction (Print Name & Title) By: University's Representative (Signature & Date) Scott Donnell	By: Design Professional N/A (Signature & Date) By: University's Responsible Administrator (Signature & Date) Blythe R. Wilson, Architect
Will file a Notice of Completion with the construction contract for this Project. By: Inspector (Signature & Date) Name Senior Construction Inspector Planning, Design & Construction (Print Name & Title) By: University's Representative	By: Design Professional N/A (Signature & Date) By: University's Responsible Administrator (Signature & Date)



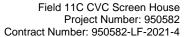


FINAL DISTRIBUTION OF CONTRACT DOLLARS

Completed By:											ate:	
	(Signature)		(Printed Name)						(Title)		
Provide the following inf	formation for each contracting party includi	ng the prime Contra	ctor and each subcon	tractor/su	bcon	sultant				SI	neet No o	f
regardless of tier.* Atta	nch additional sheets if necessary.											
1	2	3	4	5			6			7a	7b	7c
Full Name of Busine	Street Address City, State & Zip Code	Telephone # & Fax #	Contact Name	Type of Owner-	(C	Business heck all t	hat a	pply [[X])	Portion of the Work	Amount \$	Percent %
				ship	SBE	DVBE	DBE	WBE	N/A			
Prime:												
Sub:												
Sub:												
Sub:				1								
Sub.												
		•	Column 5 –	Type of			Colu	mn 6	– Bu	siness Categories	Subtota	s
			C = Corporation			SBE =	Smal	l Bus	iness	Enterprise		
Total Contract Amou	unt: \$	<u> </u>	JV = Joint Venture			DVBE = Disabled Veteran Business Enterprise						
			P = Partnership							Business Enterprise		
			SP = Sole Proprieto	orship						d Business Enterprise		
			O = Other N//				N/A = Not Applicable					

^{*}Regardless of tier, a completed Self-Certification form must be submitted for the prime Contractor and each subcontractor/subconsultant shown on this Exhibit.

^{**}If a prime Contractor, refer to the Report of Subcontractor Information for license and other information.





PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREA	S, The Regents of the Uni	versity of California (,	s Principal
a contract dated thedescribed as follows:	day of	, 20	, (the "Contract") for	•
•	me: Field 11C CVC Screen H . 950582, Contract No. 950			
AND WHEREAS, payment of claims of labor	the Principal is required to ers, mechanics, material s			
NOW, THEREFO	DRE, we, the undersigned	Principal and		
	as Surety,	are held and firmly b	ound unto The Regents i	n the sum of
			Dollars (\$),
for which payment well and and assigns, jointly and se			executors, administrator	s, successors

THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its heirs, executors, administrators, successors, or assigns approved by The Regents, or its subcontractors shall fail to pay any of the persons named in State of California Civil Code Section 9100, or amounts due under the State of California Unemployment Insurance Code with respect to work or labor performed under the Contract, or for any amounts required to be deducted, withheld, and paid over to the State of California Employment Development Department from the wages of employees of Principal and subcontractors pursuant to Section 13020 of the State of California Unemployment Insurance Code with respect to such work and labor, that Surety will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall become and be null and void.

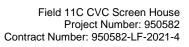
This bond shall inure to the benefit of any of the persons named in State of California Civil Code Section 9100 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

Surety, for value received, hereby expressly agrees that no extension of time, change, modification, alteration, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder, shall in any way affect the obligation of this bond; and it does hereby waive notice of any such extension of time, change, modification, alteration, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder.

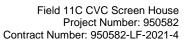
Surety's obligations hereunder are independent of the obligations of any other surety for the payment of claims of laborers, mechanics, material suppliers, and other persons in connection with the Contract; and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing The Regents' rights against the other.

In the event suit is brought upon this bond, the parties not prevailing in such suit shall pay reasonable attorneys' fees and costs incurred by the prevailing parties in such suit.

Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.



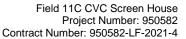






	NESS WHEREOF, we have he , 20	reunto set our han	ds and seals this day of
PRINCIPAL:		SURI	ETY:
	(Name of Company)		(Name of Company)
Ву:	(Signature)	By: _	(Signature)
	(Print Name)		(Print Name)
	(Title)		(Title)
			Address for Notices:
		-	(Street Address)
		-	(City, State & Zip Code)

NOTE: Notary acknowledgement for Surety and Surety's Power of Attorney must be attached.





B 111	
Bond No.	

PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

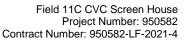
THAT	WHEREAS, The Regents of the U	Iniversity of C	California ("The Rege	ents") has awarded to	
				as Principal a contrac	t
dated the reference made	day of day ofe a part hereof, for the work descri	, 20 bed as follow		, which Contract is by t	his
	Project Name: Field 11C CVC Screer	House			
	Project No. 950582, Contract No. 95		L-4		
faithful perform				Contract, guaranteeing t	he
	, THEREFORE, we, the undersigned	•			
as Surety are	held and firmly bound unto The Re	gents in the s	sum of		
			Dollars (\$),
	he Regents or its successors and ass neirs, executors, administrators, suc				

THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its heirs, executors, administrators, successors, or assigns approved by The Regents, shall promptly and faithfully perform the covenants, conditions, and agreements of the Contract during the original term and any extensions thereof as may be granted by The Regents, with or without notice to Surety, and during the period of any guarantees or warranties required under the Contract, and shall also promptly and faithfully perform all the covenants, conditions, and agreements of any alteration of the Contract made as therein provided, notice of which alterations to Surety being hereby waived, on Principal's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify, defend, protect, and hold harmless The Regents as stipulated in the Contract, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect.

No extension of time, change, alteration, modification, or addition to the Contract, or of the work required thereunder, shall release or exonerate Surety on this bond or in any way affect the obligation of this bond; and Surety does hereby waive notice of any such extension of time, change, alteration, modification, or addition.

Whenever Principal shall be and declared by The Regents to be in default under the Contract, Surety shall promptly remedy the default, or shall promptly:

 Undertake through its agents or independent contractors, reasonably acceptable to The Regents, to complete the Contract in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages, or, at Surety's election, or, if required by The Regents,





2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and, upon determination by The Regents of the lowest responsible bidder, arrange for a contract between such bidder and The Regents and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Sum, and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages; but, in any event, Surety's total obligations hereunder shall not exceed the amount set forth in the third paragraph hereof. The term "balance of the Contract Sum," as used in this paragraph, shall mean the total amount payable by The Regents to the Principal under the Contract and any amendments thereto, less the amount paid by The Regents to Principal.

Surety's obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing The Regents' rights against the others.

No right of action shall accrue on this bond to or for the use of any person or corporation other than The Regents or its successors or assigns.

Surety may join in any arbitration proceedings brought under the Contract and shall be bound by any arbitration award.

In the event suit is brought upon this bond by The Regents, Surety shall pay reasonable attorney's fees and costs incurred by The Regents in such suit.

Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

IN WITNESS WHEREOF, we have he	ereunto set our hands this day of
PRINCIPAL:	SURETY:
(Name of Company)	(Name of Company)
By:(Signature)	By:(Signature)
(Print Name)	(Print Name)
	<u> </u>
(Title)	Address for Notices:
	(Street Address)
	(City, State & Zip Code)

NOTE: Notary acknowledgement for Surety and Surety's Power of Attorney must be attached.



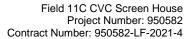
Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4

$\frac{\textbf{REPORT OF SUBCONTRACTOR/SUBCONSULTANT INFORMATION}}{(\text{NOTE: THIS EXHIBIT IS }\underline{\text{NOT}}} \text{ TO BE SUBMITTED WITH BID)}$

Completed By:	(0)		(Duint Name a)							(T:41-)	Date	e:	
	(Signature)		(Print Name))						(Title)			
Provide the following information	on for each contracting party includi	ng the prime Contra	ctor and each subco	ontractor	rega	ırdless	of tie	r*.			She	eet No.	of
Attach additional sheets if nece	essary.												
1	2	3	4	5			6			7a	7b		8
Full Name of Business	Street Address City, State & Zip Code	Telephone # & Fax #	Contact Name	Type of Owner-	Bı (Ch	usiness eck all	that	egorie apply	es* [X])	Portion of the Work	Amount \$	License Ir	nformation**
	City, State & Zip Code	& Fax #		ship	SBE	DVBE	DBE	WBE	N/A	VVOIK		License Classification	License #
Prime:													
Sub:													
Sub:													
Sub.													
Sub:													
			5 – Type of Owners	ship				Colu	ımn 6	- Business Cate	egories		
		C = Corporation				SBE	= Sn	nall B	usine	ss Enterprise			
		JV = Joint Ventur	e							eteran Business E			
		P = Partnership								ed Business Ente			
		SP = Sole Proprie	etorship							ned Business Ente	erprise		
		O = Other				N/A	= Not	Appl	icable	9			

^{*}Regardless of tier, a completed Self-Certification form must be submitted for the prime Contractor and each subcontractor shown on this Exhibit.

^{**}List only those license classifications and numbers relevant to this Project.





SELECTION OF RETENTION OPTIONS

I (we):			
()		(Contractor)	
SELECT	T OPTION 1		Initial and date here
	University will withhold retention.		for OPTION 1
OR SEL	ECT OPTION 2		Initial and date here
	herewith elect to substitute securities in the	ne form of:	for OPTION 2
	in lieu of retention being withheld by University above-referenced project.	ersity for the	
OR SEL	ECT OPTION 3 herewith elect to have retention on referenced project paid directly into the Account.		Initial and date here for OPTION 3
	(Type of Security to be Purchased)		
	An Escrow Account will be opened with:		
		(Nam	e of state or federally chartered bank in California)
	whose address is:		(Street)
	_		, ,
			(City, County)
	_		(State, Zip Code)
Or	n Behalf of Contractor*:		alf of University: edged and Approved
В	y: (Signature)	Ву:	(Signature)
	(Signature)		
			Blythe R. Wilson, Architect Director of Project Management
			Planning, Design & Construction
	(Print Name & Title)		(Print Name & Title)

Note: If a completed and signed Escrow Agreement is not submitted with this form, University will not allow deposit of securities in lieu of retention.

^{*} Signature shall be by the authorized party who signs the Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention ("Escrow Agreement").



SELF-CERTIFICATION

For the Contractor and each subcontractor/subconsultant, the following must be completed.

Indicate all Business category(ies) that apply by initialing next to the applicable category(ies):

Small Business Enterprise (SBE) - an independently owned and operated concern certified, or certifiable, as small business by the Federal Small Business Administration (SBA). (Size standards by Standard Industrial Classification codes required by the Federal Acquisition Regulations, Section 19.102, may be found at http://www.sba.gov/content/table-small-business-size-standards.) The eligibility requirements for California contracting purposes is on the Department of General Services website at http://www.dgs.ca.gov/pd/Programs/OSDS/SBEligibilityBenefits.aspx. The University may rely on written representation by the vendors regarding their status.

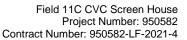
Disabled Veteran Business Enterprise (DVBE) - a business that is at least 51% owned by one (Initial, if or more disabled veterans or, in the case of any publicly owned business, at least 51% of the stock applicable) of which is owned by such individuals and whose management and daily business operations are controlled by one or more of such individuals. A Disabled Veteran is a veteran of the military, naval, or air service of the United States with a service connected disability who is a resident of the State of California. To qualify as a veteran with a service connected disability, the person must be currently declared by the United States Veterans Administration to be 10% or more disabled as a result of service in the armed forces.

Disadvantaged Business Enterprise (DBE) - a business concern that is at least 51% owned by one or more socially and economically disadvantaged individuals or, in the case of any publicly owned business, at least 51% of the stock of which is owned by such individuals and whose management and daily business operations are controlled by one or more of such individuals. Socially disadvantaged individuals are those who have been subjected to racial or ethnic prejudice or cultural bias because of their identity as members of a group without regard to their individual qualities. Economically disadvantaged individuals are those socially disadvantaged individuals whose ability to compete in the free private enterprise system has been impaired due to diminished capital and credit opportunities as compared to others in the same business area who are not socially disadvantaged. Business owners who certify that they are members of named groups (Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, Asian-Indian Americans) are to be considered socially and economically disadvantaged.

Women-Owned Business Enterprise (WBE) - a business that is at least 51% owned by a woman (Initial, if or women who also control and operate it. "Control" in this context means exercising the power to applicable) make policy decisions. "Operate" in this context means being actively involved in the day-to-day management.

None of the above categories apply.

(Initial, if applicable)





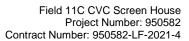
I hereby certify under penalty of perjury under the laws of the State of California that I have read this certification and know the contents thereof, and that the business category indicated above reflects the true and correct status of the business in accordance with Federal Small Business Administration criteria and Federal Acquisition Regulations, FAR 19 pertaining to small, disadvantaged, women-owned, and disabled veteran business enterprises. I understand that falsely certifying the status of this business, obstructing, impeding or otherwise inhibiting any University of California official who is attempting to verify the information on this form may result in suspension from participation in University of California business contracts for a period up to five (5) years and the imposition of any civil penalties allowed by law.

INFORMATION FURNISHED BY:		
	(Print	Name of Owner and/or Principal)
	(Name of Busin	ness or Firm)
a		
	(Insert type of business e.g. corporation	, sole proprietorship, partnership, etc.)
Ву:		
	(Print Name)	(Title)
	(Signature)	(Date)

PRIVACY NOTICE

The State of California Information Practices Act of 1977 (effective July 1, 1978) requires the University of California to provide the following information to individuals who are asked to supply personal information about themselves. Information furnished on the Self-Certification form may, in some cases, identify personal information of an individual.

- The University of California, Riverside, is requesting the information contained in this form and the accompanying Report of Subcontractor Information.
- The Small Business Outreach Program Manager at the University of California, Riverside, is responsible for maintaining the requested information. The contact information for the Small Business Outreach Program Manager may be found at: http://www.ucop.edu/procurement-services/_files/sbdmgr.xlsx.
- The maintenance of information is authorized in part by Public Contract Code section 10500.5.
- Furnishing the information requested on this form is mandatory. If SBE, DBE, WBE and/or DVBE status is applicable, furnishing such information is mandatory.
- Failure to provide the information may be a violation of bidding procedures and/or breach of the contract and the University may pursue any and all remedies permitted by the provisions of the Contract Documents.
- The information on this form is collected for monitoring and reporting purposes in accordance with state law and University policy.
- The individual may access information contained in this form and related forms by contacting the Small Business Outreach Program Manager(s).





SUBMITTAL SCHEDULE

Contract Date:			
Subcontractor:			
Specification Section:			
Work Activity:			

	Event	Scheduled Completion Date	Actual Completion Date	Calendar Days Required to Complete
1.	Received by Contractor and Time for Checking			
2.	First Delivered to University's Representative and Time for Checking			
3.	Return to Contractor			
4.	Corrections Completed and Time for Corrections			
5.	Next Delivered (1st Resubmission) to University's Representative and Time for Checking			
6.	Return to Contractor			
7.	Approval for Job Information			
8.	Approval for Fabrication and Time for Fabrication			
9.	Fabrication Completed			
10.	Shipping Date and Time In Route			
11.	Delivery to Job			

^{*}Contractor must revise Submittal Schedule to reflect number of resubmissions.



Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4

SUBSTITUTION OF SUBCONTRACTOR - INDEMNITY AGREEMENT and CONSENT

WHER	REAS, on Date , The Regents of the	-	nia (University) and (Contractor	r)
	(Full Company Name & Address of Pr Agreement (Contract Number 95058 No. 950582 , University of California	32-LF-2021-4) for the co		C Screen
	EAS, Contractor's Bid, which was according the work activity work called for b			
WHERE reasons for sub	EAS, Contractor has represented and ostitution;	d does hereby represe	nt to University that Name of	f Listed Sub has
In cons	sideration of the consent of Universit	ty to the substitution of	:	, for
	(Full Company Name & Addr	ress of Substitute Subcontractor)		, 101
	Name of	Listed Sub e of Listed Subcontractor)		, as
at Contractor's provided, howe if it so desires, causes or resu deemed to be to period of such of the total o	VHEREOF, this Indemnity Agreemer	ts, suits, actions or othen prompt notice of all so or defense of any such said Project, the loss to the liquidated damago	ter proceedings in connection such proceedings and it shall proceedings. If any such poor the University for such deless provisions of said Agreement	n therewith; l be entitled, proceedings lay shall be
CONTRACTOR	₹:			
By:				
, <u> </u>	(Signature)			
	(Typed or Printed Name & Title)			
	CONSENT TO SUBST sideration of the indemnification of Ut to the substitution of:			and does , for
		ress of Substitute Subcontractor)		,
	Name of (Full Company Name	Listed Sub e of Listed Subcontractor)		, as
Subcontractor to the above name	to provide the work activity work ca		Documents and Contract Do	cuments for
IN WITNESS WI the above date.	HEREOF, University and Contractor	have executed this Co	onsent to Substitution of Sub	contractor as of
CONTRACTOR	₹:	UNIVERSITY:		
Ву:		Ву:		
,	(Signature)		(Signature)	
	(Typed or Printed Name & Title)		(Typed or Printed Name & Title)	

This document summarizes the Builder's Risk policy and is not intended to reflect all the terms, conditions, or exclusions of such policy as of the effective date of coverage. This document is not an insurance policy and does not amend, alter or extend the coverage afforded by the listed policy. The insurance afforded by the policy is subject to all the terms, exclusions and conditions of such policy.

Some Projects may be excluded and/or must be underwritten separately any may be subject to different rates, deductibles, and terms and conditions. (See page 13) Therefore, this document should be used as a guideline only.

INSURANCE COMPANY: Allianz Global Risks U.S. Insurance Company

BEST'S RATING: A+

NAMED INSURED: The Regents of the University of California

INSURING AGREEMENT

This Policy, subject to the Limit of Liability and the terms, conditions, and limitations contained herein or endorsed hereon, insures against all risks of direct physical loss of or direct physical damage to Insured Property while at the construction site, stored off-site, or in the course of transit within the Territorial Limits specified in the Schedule during the Period of Insurance of each Insured Project.

LIMITS OF LIABILITY

SCHEDULE OF LIMITS

This Company shall not be liable for more than the Limit of Liability as stated on the Certificate of Insurance in any one Occurrence for any one Insured Project, subject to the following limits and sublimits:

MASTER POLICY LIMITS

\$150,000,000 per project, per occurrence \$ 25,000,000 per project, Joisted Masonry

NOTE: This Limit of Liability will correspond with the Total Estimated Construction Cost as indicated on the original Builder's Risk Insurance Application. If the construction costs should increase, the Limit of Liability can be subsequently increased once prior notice has been given by the University's Representative to Aon Risk Insurance Services West, Inc..

SUBLIMITS:

- 1. \$5,000,000 for Wood Frame Construction
- 2. \$100,000 for Pollution Cleanup Expenses
- **3.** 15% of the declared estimated Total Project Value, subject to a maximum of \$25,000,000 for **Demolition and Increased Cost of Construction**
- **4.** 25% of the adjusted property damage loss, subject to a maximum of \$2,500,000 for **Expediting Expense/Extra Expense**
- 10% of the declared estimated Total Project Value, subject to a maximum of \$10,000,000 for Insured Property while Stored Off-site
- **6.** 10% of the declared estimated Total Project Value, subject to a maximum of \$10,000,000 for **Insured Property while in the Course of Inland Transit**
- **7.** 25% of the declared estimated Total Project Value, subject to a maximum of \$25,000,000 for **Debris Removal**
- 8. \$500,000 for Plans, Blueprints and Specifications
- 9. \$500,000 for Trees, Grass, Shrubbery, Seed and Plants
- **10.** 33% of the declared estimated Total Project Value subject to a maximum of \$50,000,000 for **Water Damage**. (Each Insured Project is also subject to a \$50,000,000 Annual Aggregate for Water Damage.)
- 11. 15% of the adjusted property damage loss, subject to a maximum of \$10,000,000 for Green/LEED Rating System
- **12.** 10% of the adjusted property damage loss, subject to a maximum of \$50,000 for **Mold/Fungi**
- **13.** 5% of the declared estimated Total Project Value, subject to a maximum of \$10,000,000 for additional **Architects, Engineering and Professional Fees**
- 14. \$100,000 for Claims Preparation Expenses
- 15. \$500,000 for Fire Department Service Charges

TERMS AND CONDITIONS

NAMED INSURED

The Regents of the University of California and all affiliated and subsidiary companies, corporations, ventures, partnerships or other organizations, all owned, controlled or managed by the Named Insured and all as now exist or may hereafter be constituted or acquired.

ADDITIONAL INSUREDS

General Contractors and subcontractors of every tier to the extent required by any contract or subcontract for an Insured Project, and then only as their respective interests may appear, any individual(s) or entity(ies) specified in such contract or subcontract, are recognized as Additional Insureds hereunder. As respects architects, engineers, manufacturers and suppliers, the foregoing is limited to their site activities only.

ATTACHMENT/TERMINATION

Insurance hereunder applies to all projects specifically declared under the Master Policy in a Quarterly Report Endorsement or in a Project Declaration Endorsement, where the project is scheduled to begin during the term of the Master Policy. The Master Policy term commences on September 1, 2011 at 12:01AM and ends on September 1, 2014 at 12:01AM.

Coverage for each Insured Project declared under the Master Policy will go into effect and continue in full force and effect during the Certificate Period specified in the project's Certificate of Insurance.

NOTIFICATION OF COVERAGE/TERMINATION: The Certificate Period will correspond with the Estimated Dates of Commencement and Completion of Work as indicated on the original Builder's Risk Insurance Application. If construction is not completed on time and coverage beyond the Estimated Date of Completion of Work is required, prior notification must be given by the University Representative to Aon Insurance Services West, Inc.

DEDUCTIBLES

\$25,000 for **All Other Perils** for Projects **over** \$2,500,000 at the time of the loss **except** Water Damage

\$10,000 for **All Other Perils** for Projects **under** \$2,500,000 at the time of the loss **except** Water Damage

\$100,000 for Water Damage for all projects

NOTE: The contractor shall be responsible for the deductibles.

EXCLUSIONS

PROPERTY EXCLUDED

This Policy does not insure:

- Land, but this exclusion does not apply to excavation and grading as long as the cost of the excavation and grading is included in the Limit of Liability as stated in the Certificate of Insurance.
- 2. Contractor's plant and equipment, machinery, tools, or property of similar nature not destined to become a permanent part of the Insured Project but this exclusion shall not apply to formwork, fences, shoring, falsework and temporary buildings as long as the value of these items are included in the estimated Limit of Liability as stated in the Certificate of Insurance.
- **3.** Automobiles or other vehicles, watercraft or aircraft.
- 4. Water.
- **5.** Accounts, bills, currency, deeds, securities, books, records, manuscripts, other similar papers, or data processing media.
- **6.** Existing buildings or structures or any other existing property.
- 7. Owner supplied material, equipment, machinery and supplies, unless the value of such is included in the Limit of Liability as stated in the Certificate of Insurance.
- **8.** Transmission and/or distribution lines; including wires, cables, poles, towers and all equipment attached thereto beyond 1,000 feet from the perimeter of the project site.
- **9.** Partially or completely excavated or open trench, pipeline or workface, at any one time beyond 1,000 feet in length.

EXCLUDED CAUSES OF LOSS

- 1. Loss or damage caused by, or resulting from, wear and tear, moth, vermin, termites or other insects, inherent vice, latent defect, gradual deterioration, wet or dry rot and rust, corrosion, erosion or normal settling, shrinkage, and/or expansion of buildings and/or foundations.
- 2. Any loss of use or occupancy or consequential loss of any nature howsoever caused.
- **3.** Liquidated damages and/or penalties for delay or detention in connection with guarantees of performance or efficiency.
- 4. Hostile or warlike action.
- **5.** Nuclear reaction, nuclear radiation, or radioactive contamination.

- **6.** Any cost or expenses incurred to test for, monitor, or assess the existence, concentration or effects of Fungi.
- 7. Loss or damage caused by or resulting from infidelity or dishonesty on the part of the Insured and/or any employee of the Insured; inventory shortage or unexplained disappearance.
- **8.** Loss or damage caused by or resulting from frost, falling ice, or freezing, unless resulting directly from damage caused by fire, lightning, explosion, windstorm, riot, riot attending a strike, civil commotion, aircraft, vehicles, or smoke.
- **9.** Loss or damage caused by or resulting from the enforcement of any ordinance or law, or any order of governmental or municipal authority; by suspension, lapse, termination and/or cancellation of any license, lease, or permit, or any injunction or process of any court, unless otherwise endorsed herein.
- **10.** Loss or damage caused by, resulting form, contributed to or made worse by actual, alleged, or threatened release, discharge, escape or dispersal of Contaminants and/or Pollutants.
- 11. Loss or damage to Insured Property while aboard any aircraft or watercraft.
- **12.** The cost of making good faulty or defective workmanship, material, construction, designs, plans and/or specifications unless direct physical loss or direct physical damage not otherwise excluded under this policy ensues and then this Policy will cover such ensuing loss or damage only.
- **13.** Loss, damage, corruption, destruction, distortion, interruption, disruption, erasure, deletion, alteration, loss of use, reduction in functionality, loss of access to, denial of access to or breakdown of Electronic Data from any cause whatsoever.
- 14. Loss or damage to Used Equipment caused by mechanical and/or electrical breakdown.
- **15.** Loss or damage directly or indirectly caused by, resulting from, contributed to, or aggravated by Land Movement.
- **16.** Loss or damage directly or indirectly caused by, resulting from, contributed to, or aggravated by Flood.
- **17.** Loss or damage covered under any guarantee or warranty, expressed or implied, by any manufacturer or supplier whether or not such manufacturer or supplier is an Insured under this policy.
- 18. Terrorism.
- **19.** Loss or damage arising out of the performance of the professional activities of any consulting engineer, architect, or designer, or any person employed by them or any others whose acts they are legally liable for whether or not named as an Insured under this Policy.

SELECTED EXTENSIONS OF COVERAGE

1. EXPEDITING/EXTRA EXPENSES

Subject to the stated sublimit, this Policy is extended to cover extra charges for overtime, night work, work on public holidays, the extra cost of rental construction equipment, express freight, including air freight all incurred solely:

- A. to facilitate the repair or replacement of the Insured Property which has sustained physical loss or physical damage from a peril insured, or;
- B. which are necessary to return the work on the Insured Property to the same schedule actually being observed immediately prior to the sustaining of physical loss or physical damage from a peril insured.

This Policy does not cover charges incurred to expedite work on parts of the Insured Property which have not sustained physical loss or physical damage.

2. DEMOLITION AND INCREASED COST OF CONSTRUCTION

- A. Subject to the stated sublimit, in the event of direct physical loss and/or direct physical damage by perils insured under this Policy, the Company shall also pay:
 - (i) The increased cost to repair, replace or re-erect the Insured Property caused by the enforcement of any building, zoning or land use ordinance or law in force at the time of loss. If the Insured Property is replaced, it must be intended for similar occupancy of the current Insured Property, unless otherwise required by zoning or land use ordinance or law.
 - (ii) The cost to demolish and clear the construction site of undamaged parts of the Insured Property caused by the enforcement of any building, zoning or land use law in force at the time of the loss.
- B. In no event, however, shall the Company be liable for costs associated with the enforcement of any ordinance or law which requires any Insured or others to test for, monitor, clean up, remove, contain, treat, detoxify, or neutralize, or in any way respond to or assess the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkali, toxic chemicals, liquids or gasses, waste materials or other irritants, any Contaminants and/or Pollutants.
- C. The Company shall not pay for the increased cost of construction until the Insured Property is actually repaired, replaced, or re-erected at the same construction site or elsewhere and as soon as reasonably possible after the loss or damage, not to exceed thirty (30) months.

- D. In no event, however, shall the Company pay more:
 - (i) If the Insured Property is repaired, replaced or re-erected at the same construction site than the amount the insured actually spends to:
 - a) Demolish and clear the construction site; and
 - b) Repair, replace or re-erect the Insured Property but not for more than property of like height, floor area and style at the same construction site.
 - (ii) If the Insured Property is not repaired, replaced, or re-erected at the same construction site than:
 - a) The amount the Insured actually spends to demolish and clear the construction site; and
 - b) The cost to replace, at the same construction site, the damaged or destroyed Insured Property with other property;
 - 1) of like kind and quality;
 - 2) of like height, floor area and style; and
 - 3) used for the same purpose.
 - (iii) Than the stated sublimit of Demolition and Increased Cost of Construction.

3. FIRE DEPARTMENT SERVICE CHARGES

Subject to the stated sublimit, when property insured is destroyed or damaged by a peril insured, this Policy shall also pay for the cost of fire department service charges for which the Insured is liable, provided they are assumed by contract or written agreement prior to a loss or they are required by a local ordinance.

4. PLANS, BLUEPRINTS, AND SPECIFICATIONS

Subject to the stated sublimit, in the event of direct physical loss or direct physical damage to plans, blueprints or specifications by perils insured under this policy, this insurance shall also pay the costs of mechanical reproduction from originals stored off-site for plans, blueprints or specifications.

5. TREES, GRASS, SHRUBBERY, SEED AND PLANTS

Subject to the stated sublimit, this policy is extended to insure direct physical loss or direct physical damage to trees, grass, shrubbery, seed and plants caused by or resulting from fire, lightning, windstorm, hail, explosion, smoke, collision by aircraft or vehicle, riot, riot attending a strike or civil commotion, vandalism or malicious mischief.

6. DEBRIS REMOVAL

Subject to the stated sublimit, in the event of direct physical loss or physical damage to Insured Property by perils insured under this policy, this insurance shall also pay the cost of removal of material and debris being a part of the Insured Property located at the construction site and the cost to demolish and clear the construction site of undamaged parts caused by the enforcement of any building, zoning or land use law in force at the time of the loss.

This Policy also covers cost or expense to:

- A. Extract Contaminants and/or Pollutants from the debris; or
- B. Extract Contaminants and/or Pollutants from land and/or water; or
- C. Remove, restore, or replace land and/or water made necessary due to the presence of Contaminants and/or Pollutants; or
- D. Remove or transport any property, material, or debris to a site for storage or decontamination required because the property, material, or debris is affected by Contaminants and/or Pollutants, whether or not such removal, transport, or decontamination is required by law or regulation.
- E. This sub-clause (Items A D above), is subject to a sublimit for **Pollution Cleanup Expenses**.

It is a condition precedent to recovery under this clause, that the Company shall have paid, or agreed to pay for direct physical loss or direct physical damage to the Insured Property and that the Insured shall give written notice to the Company of intent to claim for cost of removal of debris or the cost of cleanup no later than (12) twelve months after the date the original physical loss or physical damage occurred.

7. ARCHITECT, ENGINEERING AND PROFESSIONAL FEES

Subject to the stated sublimit, Architect, Engineering and Professional Fees shall mean the additional architectural and engineering expenses, excluding any costs for redesign or betterment, or owner's consultant service expenses, or owner's legal, appraisal, title and/or inspection fees incurred to facilitate repair or replacement of the Insured Property which has sustained physical loss or physical damage from an insured peril.

8. GREEN/LEED

Subject to the stated sublimit, in the event of a direct physical loss or direct physical damage not otherwise excluded in the policy to Insured Property by perils insured under the policy the Insurer shall also pay the reasonable additional cost, if any, incurred by the Insured to repair or replace such damaged or destroyed Insured Property in a manner and with products or materials of otherwise equivalent quality and function that meet the requirements of the LEED Rating System.

Coverage under this extension applies only if the Insured Project has been registered with the US Green Building Council during the Period of Insurance specified on the Certificate of Builder's Risk Insurance and prior to any loss, and only to the initial and intended building certification level that has been registered with the US Green Building Council, in accordance with the criteria outlined in order to comply with the requirements of the LEED Rating System existing at the time of the loss or damage to the Insured Project, which upon completion will undergo the process of being certified by the US Green Building Council.

The following exclusions and limitations apply to this coverage extension:

No coverage is provided under this extension:

- A. If no such products or materials exist at the time of the loss or damage; or
- B. If the Insured does not repair or replace the damaged or destroyed Insured Property.

In no event will the policy pay more than the lesser of the:

- A. The cost to repair; or
- B. The cost to replace;

the damaged Insured Property in a manner and with products or materials of otherwise equivalent quality and function that meet the requirements of the LEED Rating System existing at the time of the loss or damage.

No coverage is provided under this extension of coverage for any of the following items:

- A. Re-registering the Insured project with the US Green Building Council.
- B. Failure to meet the registered LEED Building Rating certification level.
- C. Land and land values.
- D. Any additional cost incurred to comply with any law or ordinance.
- E. Personal property of others in the Insured's care, custody or control.
- F. Raw materials, stock-in-process and finished goods.
- G. Motor vehicles.
- H. Property located outside the Territorial Limits of the policy.

9. CLAIMS PREPARATIONS EXPENSE

Subject to the stated sublimit, this policy is extended to include reasonable expenses incurred by the Insured, or by the Insured's representatives for preparing the details of a claim resulting from a loss which would be payable under this policy. However, the Company shall not liable for expenses incurred by the Insured in utilizing or retaining the services of attorneys, insurance agents or brokers; or any subsidiary, related or associated entities either partially or wholly owned by an attorney or public adjuster.

10. MOLD/FUNGI

Subject to the stated sublimit, in the event of direct physical loss or direct physical damage to Insured Property by perils insured under the policy, the insurance shall also pay, subject to the Limit of Liability and the terms, conditions, and limitations of this policy, the cost to clean up or remove Mold/Fungi from Insured Property located at the construction site.

Not withstanding any terms or conditions, this policy does not insure any cost or expense incurred to test for, monitor, or assess the existence, concentration or effects of Mold/Fungi.

SELECTED GENERAL CONDITIONS

1. REQUIREMENTS IN CASE OF LOSS

In the event of loss or damage to Insured Property the Insured shall:

- A. Give immediate notice to the insurance company;
- B. Protect the Insured Property from further loss or damage;
- C. Within ninety (90) days from the date of discovery of the loss or damage, the Named Insured shall render a statement to the Insurer signed and sworn to by the Named Insured stating the knowledge and belief of the Insured as to the time and cause of the loss or damage and the interest of the Insured and all others in the Insured Property;
- D. Exhibit to any person designated by the Insurer all that remains of the Insured Property.
- E. Coordinate and cooperate with investigation and/or inspection of property and provide documentation as requested by the insurance adjuster. Do NOT destroy or salvage damaged property unless authorized to do so by the insurance adjuster.
- F. Submit to examinations under oath by any person named by the Insurer and produce for examination all writings, books of account, bills, invoices and other vouchers, or certified copies thereof if originals be lost, at such reasonable time and place as may be designated by the Insurer or its representative, and permit extracts and copies thereof to be made. No such examination under oath or examination of books or documents shall be deemed to be a waiver of any defense which the Insurer might otherwise have with respect to any loss or claim; but all such examinations and acts shall be deemed to have been made or done without prejudice to the Company's liability.
- G. Subject to the Limit of Liability and the terms, conditions, and limitations of the policy, all adjusted losses shall be paid or made good to the Named Insured within sixty (60) days after presentation and acceptance of the satisfactory proof of interest and loss to the Insurer. No amount shall be paid on an adjusted loss or made good if the Insured has collected the same from others.

2. VALUATION

Subject to the Limit of Liability, sublimits or Aggregate Limit of Liability, the Insurer shall not be liable beyond the cost to repair, replace, or re-erect the Insured Property at the time and place of loss, with materials of like kind and quality, less the cost of betterment, salvage, or other recovery including contractors reasonable profit and overhead in the proportion as that included in the original contract documents, or 15% profit and overhead, whichever is lesser. If the Insured Property is not replaced, then the loss shall be settled on the Actual Cash Value basis with proper deduction for depreciation, salvage or other recovery and exclusive of profit and overhead.

3. PROTECTION OF PROPERTY

In the case of direct physical loss or direct physical damage to Insured Property by perils insured under the policy, it shall be lawful and necessary for the Insured, his or their factors, servants, or assigns, to sue, labor, and travel for in and about the defense, safeguard, and recovery of the Insured Property, or any part thereof, without prejudice to this insurance, nor shall the acts of the Insured or Insurer, in recovering, saving, and preserving the Insured Property in case of loss be considered a waiver or an acceptance of abandonment. The expenses so incurred shall be borne by the Insured and the Insurer proportionately to the extent of their respective interests.

4. OTHER INSURANCE

This Policy shall not provide coverage to the extent of any other insurance, whether prior or subsequent hereto in date, and by whomsoever effected, directly or indirectly covering the same property against the same peril; and the Company shall be liable for direct physical loss or direct physical damage only for the excess value beyond the amount due from such other insurance, subject to the applicable Deductible.

5. INSUREDS' REPRESENTATIVE

The first Named Insured shall be the sole and irrevocable agent of each and every Insured for the purpose of:

- A. Payment of premium;
- B. Giving or receiving notice of cancellation;
- C. Requesting amendments to this policy and accepting amendments to the policy made by the Insurer.

6. LOSS PAYABLE

Loss, if any, shall be payable to the first Named Insured and/or its assigned designee.

7. PARTIAL OCCUPANCY OR USE

Notwithstanding anything to the contrary elsewhere in the policy, the Owner and/or tenants may occupy or use any completed or partially completed portion of the Insured Property, provided that the Insured warrants that all fire protection shall be in service and fully operational during such occupancy or use.

SELECTED DEFINITIONS

The following terms have been defined in the Master Policy and will be applied in the interpretation of certain wording used herein or within the Master Policy.

1. FLOOD:

Flood shall mean the rising, overflowing or breaking of boundaries of rivers, lakes, streams, ponds or similar natural or man-made bodies of water, or from waves, tidal waves, tidal waters, wave wash, or spray from any of the foregoing, surface waters, rain accumulation run off, all whether driven by wind or not.

2. CONTAMINANTS OR POLLUTANTS:

Contaminants and/or Pollutants shall mean any material which after its release or discharge can cause or threaten damage to human health and/or human welfare, or causes or threatens damage, deterioration, loss of value, marketability and/or loss of use to Insured Property; including, but not limited to, bacteria, virus, or hazardous substances as listed in the Federal Water Pollution Control Act, Clean Air Act, Resource Conservation and Recovery Act of 1976, and/or Toxic Substances Control Act, or as designated by the U.S. Environmental Protection Agency.

3. LAND MOVEMENT:

Land Movement shall mean all land movement however caused, whether by natural event or man-made including but not limited to, earthquake, volcanic eruption, tsunami, subsidence, landslide, mudflow, or rockfall.

4. OCCURRENCE:

Occurrence shall mean any one loss, disaster, or casualty, or series of losses, disasters, or casualties arising out of one event. With respect to the perils of Water Damage, Flood, Land Movement, or riots, one event shall be construed to be all losses arising during a continuous period of seventy-two (72) hours.

The Insured may choose the time from which any such seventy-two (72) hour period shall be deemed to have commenced, provided it shall not be earlier than the time of the first loss sustained by the Insured during the Occurrence.

5. WATER DAMAGE:

All water damage excluding flood, however caused, whether by natural event or manmade, including but not limited to interior water damage, damage due to water from pipe breakage or sprinkler leakage, damage from rainfall and/or resulting runoff; all whether wind driven or not.

PROJECTS EXCLUDED AND/OR MUST BE UNDERWRITTEN SEPARATELY. THESE PROJECTS MAY BE SUBJECT TO DIFFERENT RATES, DEDUCTIBLES, AND TERMS AND CONDITIONS.

(A) Construction Cost exceeds:

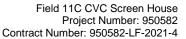
- \$150 Million regardless of Construction Type
- \$5 Million for Wood Frame
- \$25 Million for Joisted Masonry
- \$50 Million for Structural Renovations

(B) Project involves:

- Construction occurring outside of the State of California
- Co-Generation Facility
- Stadium or arena
- Bridge
- Tunnel
- Excavations greater than 1,000 feet in length or 40 feet in depth
- Transmission and/or distribution lines extending greater than 1,000 feet in length from the perimeter project site including cable, telecom, wires, poles, towers, and electrical
- Directional Drilling
- Gas Turbine
- Power Plants
- Standalone Projects for Water or Sewer Pipelines, Cut and Cover, Open Trench,
 Utility Relocations, Central Utility Plants, Waste Water, or Water Treatment Facilities.
 Standalone projects means when the scope of work is not included in the estimated
 Construction Cost of a building project

(C) Project requires coverage for:

- Land Movement (e.g. Earthquake)
- Flood
- Terrorism
- Delay in Completion





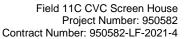
UNCONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT

NOTICE TO CLAIMANT:

Identifying Information:

THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Name of Claimant:	
Name of Customer:	
Job Location:	Filed 11C CVC Screen House, Project No. 950582
	University of California, Riverside, City of Riverside, County of Riverside
Owner:	The Regents of the University of California
claimant has for all la customer on this job. delivered, pursuant to to the date that this d	er and Release: es and releases lien, stop payment notice, and payment bond rights the abor and service provided, and equipment and material delivered, to the Rights based upon labor or service provided, or equipment or material or a written change order that has been fully executed by the parties prior document is signed by the claimant, are waived and released by this ted as an Exception below. The claimant has been paid in full.
	not affect the following: Disputed claims for extras in the amount of:
Signature:	9 Date:
Claimant's Signature	& Date:
Claimant's Name & T	Title:
Prime Contractor's Appli	ication for Payment #





UNCONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT

NOTICE TO CLAIMANT:

UNCONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

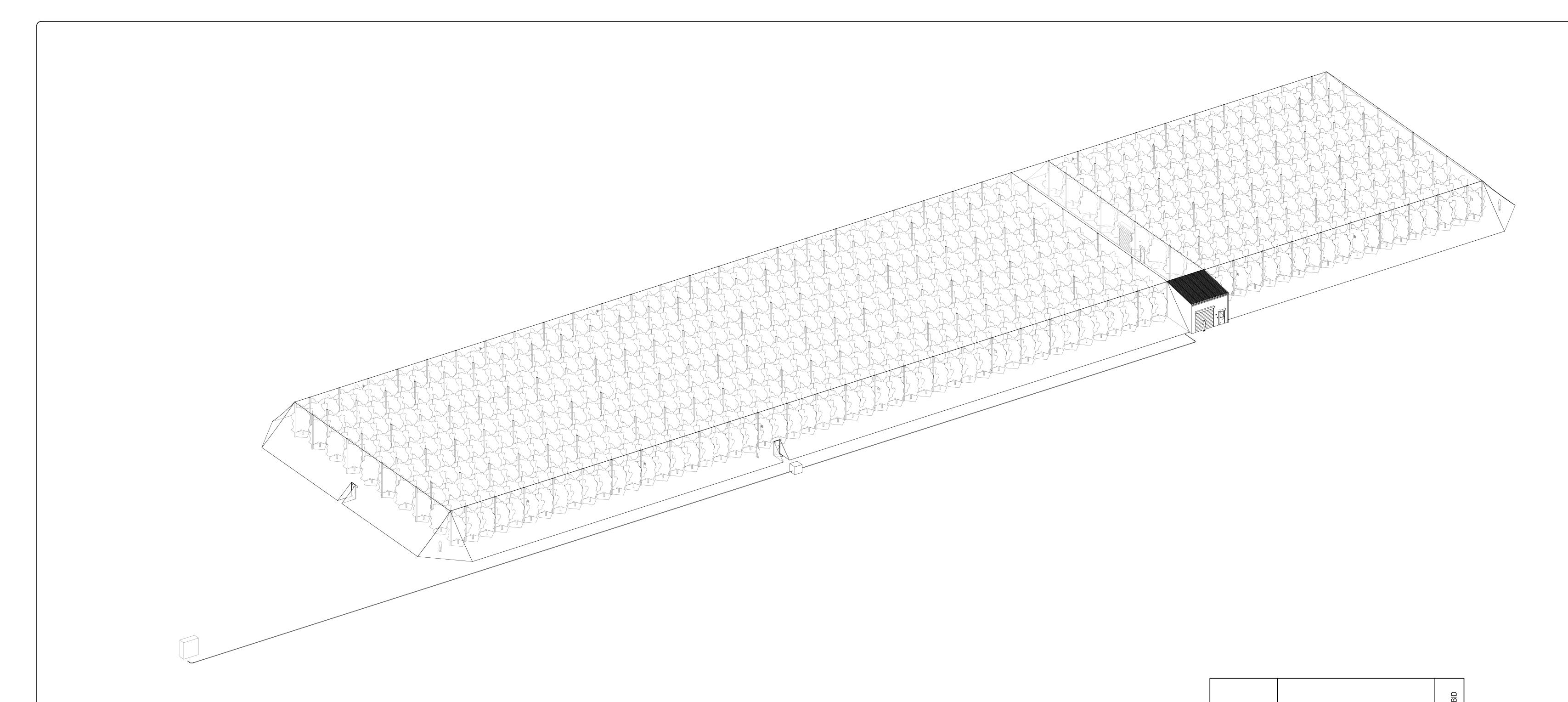
Identifying Informati	on:
Name of Claimant:	
Name of Customer:	
Job Location:	Field 11C CVC Screen House, Project No. 950582
	University of California, Riverside, City of Riverside, County of Riverside
Owner:	The Regents of the University of California
Through Date:	
claimant has for lab customer on this job service provided, or has been fully executarismant, are waived claimant has received claimant has received the services. Exceptions: This document does (1) Retentions. (2) Extras for which is contract rights, in contract, and (B) payment.	es and releases lien, stop payment notice, and payment bond rights the for and service provided, and equipment and material delivered, to the through the Through Date of this document. Rights based upon labor or equipment or material delivered, pursuant to a written change order that lated by the parties prior to the date that this document is signed by the and released by this document, unless listed as an Exception below. The d the following progress payment: \$ Interpretation of the following: The claimant has not received payment. Including (A) a right based on rescission, abandonment, or breach of the right to recover compensation for work not compensated by the
Signature:	
Claimant's Signature	& Date:
Claimant's Name & 7	Γitle:
Prime Contractor's Appl	ication for Payment #



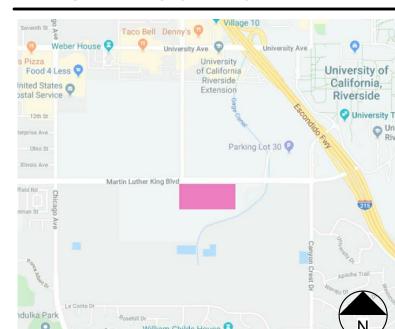
LIST OF DRAWINGS

NO. COVER SHEET 07/06/2020 100 CD BO COM G00-01 LEAD SHEET GENERAL 06/10/2020 ISSUED FOR C0.01 TITLE SHEET 06/24/2020 C1.01 GRADING AND DRAINAGE PLAN 06/24/2020 C1.01 IRRIGATION PLANS 06/10/2020 ISSUED FOR C1.02 IRRIGATION DETAILS 06/10/2020 ISSUED FOR C1.02 A00-00 ARCHITECTURAL SYMBOLS C1.02 C1.02 C1.02 C1.02 C1.03 C1	MENTS 0 8 BID 0 0
100 CD BO COM	MENTS 0 8 BID 0 0
G00-01 LEAD SHEET GENERAL 06/10/2020 ISSUED FOR ISSUED FOR ISSUED FOR ISSUED FOR 06/24/2020 ISSUED FOR 06/24/2020 ISSUED FOR A00-00 A00-00 ARCHITECTURAL SYMBOLS 06/10/2020 ISSUED FOR 06/10/2020 ISSUED FO	0 8 BID 0 0
ISSUED FOR C0.01 TITLE SHEET 06/24/2020 C1.01 GRADING AND DRAINAGE PLAN 06/24/2020 C1.01 IRRIGATION PLANS 06/10/2020 ISSUED FOR L1.02 IRRIGATION DETAILS 06/10/2020 ISSUED FOR A00-00 ARCHITECTURAL SYMBOLS 06/10/2020 C1.02 C	0 0 0 0
C0.01 TITLE SHEET 06/24/2020 C1.01 GRADING AND DRAINAGE PLAN 06/24/2020 LI.01 IRRIGATION PLANS 06/10/2020 LI.02 IRRIGATION DETAILS 06/10/2020 A00-00 ARCHITECTURAL SYMBOLS 06/10/2020	0 0 0
C1.01 GRADING AND DRAINAGE PLAN 06/24/2020 LI.01 IRRIGATION PLANS 06/10/2020 LI.02 IRRIGATION DETAILS 06/10/2020 A00-00 ARCHITECTURAL SYMBOLS 06/10/2020	0
LI.01 IRRIGATION PLANS 06/10/2020 ISSUED FOR ISSUED FOR LI.02 IRRIGATION DETAILS 06/10/2020 A00-00 ARCHITECTURAL SYMBOLS 06/10/2020	0
ISSUED FOR	
LI.02 IRRIGATION DETAILS 06/10/2020 A00-00 ARCHITECTURAL SYMBOLS 06/10/2020	'. BID - I
A00-00 ARCHITECTURAL SYMBOLS ISSUED FOR 06/10/2020	
A00-00 ARCHITECTURAL SYMBOLS 06/10/2020	
I ISSUED FOR	
A01-10 ARCHITECTURAL LIFE SAFETY PLAN LEVEL 1 06/10/2020	
A01-10 ARCHITECTURAL LIFE SAFETY PLAN LEVEL 1 06/10/2020 ISSUED FOR	
A10-01 ARCHITECTURAL SITE PLAN 06/10/2020	
ISSUED FOR	
A10-02 EMERGENCY EVACUATION PLAN 06/10/2020	
ISSUED FOR	
A11-20-00 ARCHITECTURAL OVERALL FLOOR PLAN 06/10/2020	
ISSUED FOR	-
A11-21-01 ARCHITECTURAL FLOOR PLAN ENLARGED AREA 01 06/10/2020	
ISSUED FOR	
A11-21-02 ARCHITECTURAL FLOOR PLAN ENLARGED AREA 02 06/10/2020	
ISSUED FOR	
A11-21-03 ARCHITECTURAL FLOOR PLAN ENLARGED AREA 03 06/10/2020	
ISSUED FOR	BID
A40-00 ARCHITECTURAL ELEVATIONS 06/10/2020	0
ISSUED FOR	BID
A70-00 ARCHITECTURAL INTERIOR DETAILS PARTITIONS 07/06/2020	
100 CD BO COM	
A70-01 ARCHITECTURAL DOOR DETAILS 07/06/2020	
100 CD BO COM	
M00-00 MECHANICAL LEAD SHEET 06/10/2020	
ISSUED FOR	
M20-10 MECHANICAL ENLARGED FLOOR PLAN AND SECTIONS 07/06/2020	
100 CD BO COM	
M30-10 MECHANICAL- SCHEDULES AND DETAILS 06/10/2020	
ISSUED FOR	
E00-00 ELECTRICAL LEAD SHEET 06/10/2020	
E00-10 ELECTRICAL OVERALL SITE PLAN 106/10/2020	
ISSUED FOR	_
E10-20-01 ELECTRICAL- ENLARGED POWER PLAN AREA 1 07/06/2020	
100 CD BO COM	
E10-20-02 ELECTRICAL- ENLARGED POWER PLAN AREA 2 07/06/2020	
100 CD BO COM	
E10-20-03 ELECTRICAL- ENLARGED POWER PLAN AREA 3 07/06/2020	
100 CD BO COM	
E60-00 ELECTRICAL- DETAILS 06/10/2020	
ISSUED FOR	
E70-00 ELECTRICAL PANEL SCHEDULES 06/10/2020	
ISSUED FOR	

END OF LIST OF DRAWINGS



SITE LOCATION MAP



ADD/ALT

ADD/ALT PORTION OF THIS PROJECT STARTS AT COLUMN LINE 26 AND CONTINUES EAST AS SHOWN COMPLETE IN THESE DOCUMENTS. DIAGRAM ON OVERALL PLAN A11-20-00 ILLUSTRATES HOW SLOPED END WITH DOOR IS ALWAYS THE END

CONDITION. ADD/ALT IS BETWEEN COLUMN LINES

ALL OTHER COLUMN LINES AND A-F COLUMN LINES IN MAIN SCOPE OF WORK (SEPARATE)

SCOPE OF WORK

THIS PROJECT IS A CITRUS UNDER PROTECTIVE SCREENING (CUPS) FACILITY AND IS A SEALED MESH TYPE OF STRUCTURE THAT IS REQUIRED TO PROTECT A LARGE CITRUS GROVE FROM INTRUSION OF PESTS/INSECTS. EXTREME CARE MUST BE TAKEN TO ENSURE ALL OPENINGS AND JOINTS ARE PROVIDED WITH GASKETING AND/OR TIGHT SEALS. ALL DOORS REQUIRE GASKETING/SEALS ALL AROUND. THE CONSTRUCTION DOCUMENTS ARE GENERIC IN NATURE AND GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE THEIR CONSTRUCTION TEAM SHALL PROVIDE THE ENGINEERING FOR THE STRUCTURAL POSTS, FOOTINGS, AND OVERHEAD CABLES. THE STRUCTURAL GRID IS PROPOSED TO BE 16' X 28' AND THE ASSUMED TREE CANOPY SIZE IS 8' IN DIAMETER X 14' TALL. BIDDERS HAVE THE OPTION OF PROPOSING ALTERNATE GRID SIZES. THE INTENT IS FOR THE STRUCTURE TO SUPPORT UP TO 680 TREES AS ILLUSTRATED ON THE STRUCTURE SHALL BE 18' TALL GALVANIZED STEEL POSTS SET IN CONCRETE FOOTINGS WITH GALVANIZED OR STAINLESS STEEL

CABLES ON TOP WITH A 50 MESH HDPE SCREEN MESH MATERIAL COMPLETELY COVERING THE PROJECT. THE MESH FABRIC SHALL BE FIRE RETARDANT AND MEET CFC CHAPTER 31 SECTIONS 3103 AND 3104 FOR SMOKE AND FIRE RATINGS. THE ENTRY VESTIBULE SHALL BE CONVENTIONAL PAINTED METAL PANELS OVER STEEL FRAMING. PROPOSED SIZE IS INDICATED ON THE CONSTRUCTION DRAWINGS, BUT GENERAL CONTRACTOR MAY VARY SLIGHTLY TO MEET MANUFACTURER'S STANDARD SIZES. ENTRY VESTIBULE SHALL HAVE ROLL UP OR SECTIONAL DOORS ON INTERLOCKS TO PREVENT BOTH ENDS TO BE OPEN AT THE SAME TIME. VESTIBULE STRUCTURE SHALL BE PROVIDED WITH GENERAL LED LIGHTING AND A MECHANICAL FAN TO PROVIDE POSITIVE PRESSURE AIR IN THE VESTIBULE TO PREVENT INSECT INTRUSION WHEN DOOR IS OPENED. MECHANICAL PENETRATIONS IN THE ENTRY VESTIBULE SHALL BE COVERED WITH 50 MESH SCREENING TO PREVENT INTRUSION OF INSECTS. OUTSIDE ENTRY DOORS SHALL BE PROVIDED WITH A SECURITY CODE ACCESS PER UCR STANDARDS. DOORS IN THE ENTRY VESTIBULE REQUIRE SEALS ALL AROUND. EMERGENCY EXITING SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS. EMERGENCY EXIT PATHWAYS SHALL BE PROVIDED ON THE PERIMETER UNDER THE 45 DEGREE MESH SLOPING ROOF. EXIT PATHWAYS SHALL BE PROVIDED WITH EMERGENCY EXITING LIGHTING, AND EXIT SIGNS, AT APPROXIMATELY 75' SPACING.

- Please provide signage for maximum occupant loads for general public areas. - Please add signage for areas off limits to the general public, include maximum occupant loads for the commercial areas. - Include sign locations for emergency evacuation information. Approved MCN.

PROJECT DATA

UCR FIELD 11C/D CVC SCREEN HOUSE GROSS BUILDING AREA: 96,775 SF NUMBER OF STORIES: ONE TENT HEIGHT: 18'-0" TENT HEIGHT: UNSPRINKLERED FIRE SUPPRESSION: FIRE ALARM: CASE OF EMERGENCY TYPE OF CONSTRUCTION: MESH SCREEN ON COLUMNS WITH BRAIDED TENSILE CABLING OCCUPANCY: U-OCCUPANCY USE: PROTECTED RESEARCH ORCHARD - NO TOURS

FRIABLE FOR EASE OF EGRESS/INGRESS IN

ADA: NO PROVISIONS IN THIS SCOPE - OWNER TO PROVIDE IN COMPLIANCE WITH AHJ EXISTING TO REMAIN NONE REQUIRED & NONE PROVIDED RESTROOMS:

2016 CALIFORNIA BUILDING CODE (CBC) PART 2, VOLUMES 1 AND 2, TITLE 24 [BASED ON 2015 INTERNATIONAL BUILDING CODE] 2016 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 [BASED ON 2014 NATIONAL ELECTRICAL CODE]

[BASED ON 2015 UNIFORM MECHANICAL CODE] 2016 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 [BASED ON 2015 UNIFORM PLUMBING CODE]

AMENDED BY CSFM)

ON THIS LIST.

2016 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 [BASED ON 2015 INTERNATIONAL FIRE CODE]

(AS AMENDED BY CSFM) NFPA 25, (2013 CALIFORNIA EDITION, BASED ON NFPA 25, 2011 EDITION) -INSPECTION, TESTING & MAINTENANCE OF WATER-BASED FIRE PROTECTION

NFPA 72, 2016 EDITION - NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED BY CSFM)

APPLICABLE CODES

2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24

2016 CALIFORNIA REFERENCED STANDARD CODE, PART 12, TITLE 24 TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS NFPA 13, 2016 EDITION - INSTALLATION OF SPRINKLER SYSTEMS (AS

NFPA 14, 2013 EDITION – INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (AS AMENDED BY CSFM) NFPA 17A, 2013 EDITION - WET CHEMICAL EXTINGUISHING SYSTEMS NFPA 24, 2016 EDITION – INSTALLATION OF PRIVATE FIRE SERVICE MAINS

NFPA 80, 2016 EDITION – FIRE DOORS AND OTHER OPENING PROTECTIVES REFER TO CBC CHAPTER 35 FOR ADDITIONAL STANDARDS NOT PROVIDED

GENERAL COVER SHEET LEAD SHEET GENERAL C0.01 TITLE SHEET C1.01 PRECISE GRADING PLAN LANDSCAPE IRRIGATION PLANS IRRIGATION DETAILS ARCHITECTURAL A00-00 ARCHITECTURAL SYMBOLS ARCHITECTURAL LIFE SAFETY PLAN LEVEL 1 ARCHITECTURAL SITE PLAN A10-02 EMERGENCY EVACUATION PLAN A11-20-00 ARCHITECTURAL OVERALL FLOOR PLAN A11-21-01 ARCHITECTURAL FLOOR PLAN ENLARGED AREA 1 A11-21-02 ARCHITECTURAL FLOOR PLAN ENLARGED AREA 2 ARCHITECTURAL FLOOR PLAN ENLARGED AREA 3 A11-21-03 A40-00 ARCHITECTURAL ELEVATIONS ARCHITECTURAL INTERIOR DETAILS PARTITIONS A70-00 ARCHITECTURAL DOOR DETAILS MECHANICAL MECHANICAL LEAD SHEET MECHANICAL ENLARGED FLOOR PLAN AND SECTIONS MECHANICAL - SCHEDULES AND DETAILS ELECTRICAL ELECTRICAL LEAD SHEET ELECTRICAL OVERALL SITE PLAN E00-10 ELECTRICAL - ENLARGED POWER PLAN AREA 1 ELECTRICAL - ENLARGED POWER PLAN AREA 2

ELECTRICAL - ENLARGED POWER PLAN AREA 3

ELECTRICAL - DETAILS

ELECTRICAL - PANEL SCHEDULES

SHEET NUMBER

E60-00

SHEET TITLE

TOTAL SHEET COUNT =

184816.00



THE FOLLOWING NOTES ARE FOR REFERENCE ONLY

THE FACILITY MUST FOLLOW SECTIONS II, III, OR IV TO MOVE CITRUS NURSERY STOCK INTERSTATE UNDER CERTIFICATE TO ALL AREAS OF THE UNITED STATES FROM CC, ACP, AND/OR CG, QUARANTINE AREAS,

AN INSPECTOR MAY WITHDRAW A CERTIFICATE, LIMITED PERMIT, OR COMPLIANCE AGREEMENT THAT HAS BEEN ISSUED BY APHIS. EITHER ORALLY OR IN WRITING. IF S/HE DETERMINES THAT THE HOLDER OF THE CERTIFICATE, LIMITED PERMIT, OR COMPLIANCE AGREEMENT HAS NOT COMPLIED WITH ALL CONDITIONS IN THIS PROTOCOL.

EXCEPT AS NOTED IN SECTIONS II AND V, ALL CITRUS NURSERY STOCK FOR INTERSTATE SHIPMENT MUST BE PRODUCED IN AN APHIS-APPROVED STRUCTURE AS DESCRIBED BELOW (HEREAFTER REFERRED TO AS "APPROVED STRUCTURE").

THE APPROVED STRUCTURE MUST BE DESIGNED AND CONSTRUCTED TO EXCLUDE QUARANTINE PESTS AND DISEASES. THE OWNER OF THE APPROVED STRUCTURE IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE APPROVED STRUCTURE AND ENSURING IT REMAINS PEST-FREE. FACILITIES MUST NOTIFY APHIS IMMEDIATELY IF ANY STRUCTURAL BREACHES ARE DETECTED. EACH APPROVED STRUCTURE MUST HAVE PLANTS OR BENCHES ARRANGED WITH SUFFICIENT SPACE AROUND THEM TO PERMIT REASONABLE ACCESS FOR INSPECTORS.

TO PROTECT THE INTEGRITY OF THE STRUCTURE AND ALLOW ACCESS FOR INSPECTORS, PLANTS MUST NOT TOUCH EXTERIOR WALLS OF THE STRUCTURE.

ENTRYWAYS MUST BE DESIGNED AND CONSTRUCTED TO EXCLUDE PESTS. ALL APPROVED STRUCTURE EMERGENCY EXIT DOORS MUST BE MARKED 'EMERGENCY EXIT ONLY' AND NOT USED AS A ROUTINE ENTRANCE. ALL SCREENING USED IN STRUCTURE CONSTRUCTION MUST HAVE OPENINGS APPROXIMATELY 0.3 SQUARE MILLIMETERS (E.G.0.547 X 0.547, OR 0.5 X 0.6) OR LESS IN SIZE.

FORCED AIR CURTAINS, AND/OR DOUBLE DOOR POSITIVE AIR PRESSURE COMPARTMENTS. EXTERIOR APPROVED STRUCTURE AIR SOURCES UTILIZED TO CREATE POSITIVE PRESSURE MUST BE COVERED WITH APPROXIMATELY 0.3 SQUARE MILLIMETER (OR LESS) SCREENING TO

STRUCTURE: THE FACILITY MUST GROW CITRUS NURSERY STOCK IN AN APPROVED STRUCTURE THAT MEETS THE REQUIREMENTS IN SECTION 1. OF DESIGNED AND CONSTRUCTED TO EXCLUDE CITRUS CANKER AND BE RESISTANT TO WIND-BLOWN RAIN.

CITRUS-FREE BUFFER AREA AROUND THE EXTERIOR WALL OF THE APPROVED STRUCTURE. IF 100 FEET IS NOT FEASIBLE, A MINIMUM BUFFER AREA OF 25 FEET IS ALLOWED IF THE SIDE OF THE APPROVED STRUCTURE FACING THE CITRUS NURSERY PLANT MATERIAL IS CONSTRUCTED WITH A WATER-PROOF MATERIAL, OR IS DOUBLE-WALLED SCREENING WITH A MINIMUM OF A 4 INCH SPACE BETWEEN EACH SCREEN. INTERIOR WALLS MAY BE A SINGLE-WALL OR APPROVED SCREENING WITH ADEQUATE SPACE BETWEEN ALL INTERNAL AND EXTERNAL WALLS AND CITRUS NURSERY STOCK TO ALLOW REASONABLE ACCESS FOR INSPECTION.

EACH APPROVED STRUCTURE MUST HAVE A MINIMUM OF A 100 FOOT

STRUCTURE: THE FACILITY MUST GROW CITRUS NURSERY STOCK IN AN APPROVED STRUCTURE THAT MEETS THE REQUIREMENTS IN SECTION I OF THIS PROTOCOL.

CONTRACTOR TO ENSURE ATTACHMENTS MATCHES APHIS REQUIREMENTS



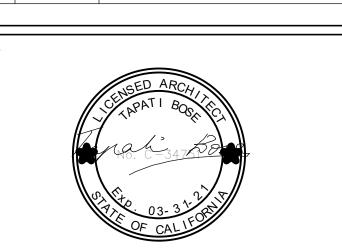
3207 GREY HAWK COURT CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

CLARK, RICHARDSON AND BISKUP

CONSULTING ENGINEERS, INC. CRB ARCHITECTS-ENGINEERS P.C

FIELD 11C/D CVC SCREEN HOUSE

(DEV/	D)/	DATE	DECODIDATION
REV	BY	DATE	DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID
1	TB	06JUL20	100 CD BO COMMENTS



PROJ. NO.	184816.00	DESIGNED BY:	VB	
SCALE:	NONE	CHECKED BY:	TB	
SHEET SIZE:	30x42	APPROVED BY:	TB	

COVER SHEET

DRAWING NUMBER

DRAWING TITLE

G00-00

PROJECT CLIENT

UC RIVERSIDE

1223 UNIVERSITY AVI

RIVERSIDE, CA 92521

100 CD BO COMMENTS | 06JUL20

FIELD 11C/D CVC SCREEN HOUSE 958092 UC RIVERSIDE RIVERSIDE, CA 92521

FIELD 11C/D CVC SCREEN HOUSE

ARCHITECT CRB ARCHITECTS-ENGINEERS, P.C. 3207 GREY HAWK CT CARLSBAD, CA 92010

CRB CONSULTING ENGINEERS, INC. 3207 GREY HAWK CT SUITE 150 CARLSBAD, CA 92010

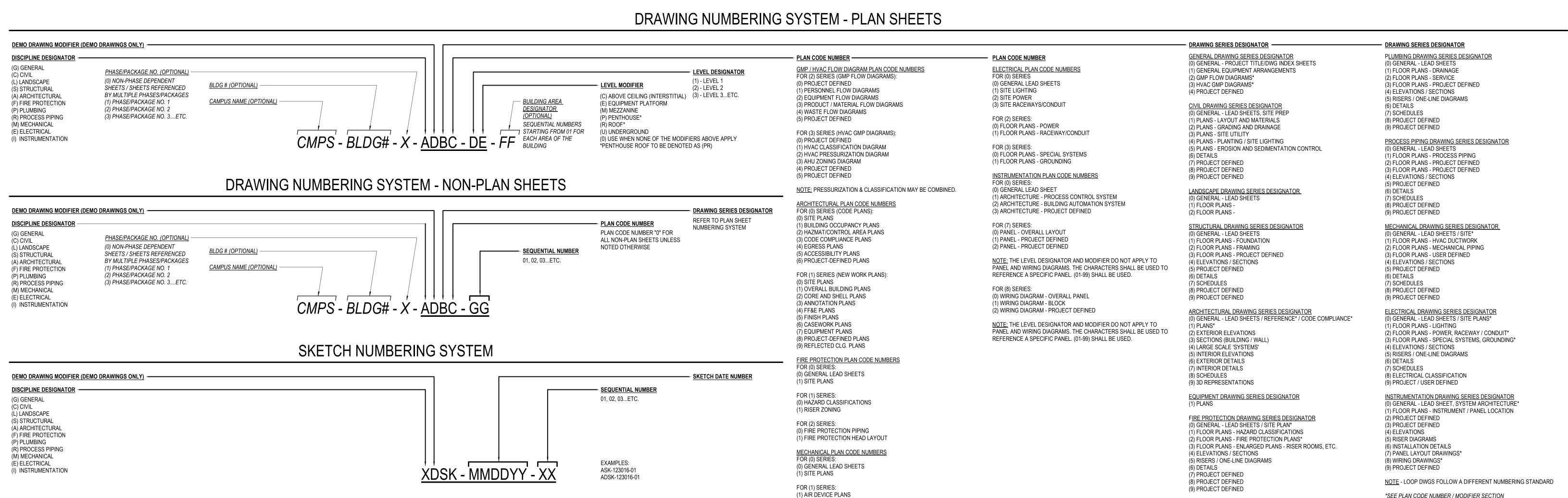
MEP

DAVID BECKWITH AND ASSOCIATES, INC 1269 POMONA ROAD SUITE 108 CORONA, CA 92882

CIVIL

DAVID BECKWITH AND ASSOCIATES, INC 1269 POMONA ROAD SUITE 108 **CORONA, CA 92882**

LANDSCAPE ARCHITECT







CONSULTING ARCHITECT/ENGINEER



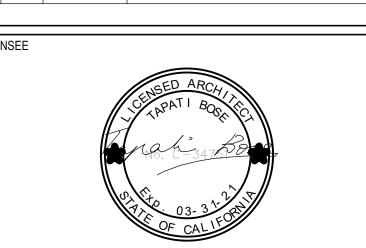
CRB ARCHITECTS-ENGINEERS P.C 3207 GREY HAWK COURT SUITE 150 CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC.

PROJECT TITLE

FIELD 11C/D CVC SCREEN HOUSE

$\overline{}$			
REV	BY	DATE	DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID



SCALE: NONE CHECKED BY: TB	PROJ. NO.	184816.00	DESIGNED BY:	VB
OUALL. NOIL OILONED DI. ID	SCALE:	NONE	CHECKED BY:	ТВ

DRAWING TITLE

LEAD SHEET **GENERAL**

DRAWING NUMBER G00-01

SCOPE OF WORK

THE UNIVERSITY OF CALIFORNIA (UC RIVERSIDE) AND COLLEGE OF NATURAL AGRICULTURAL SCIENCES (CNAS) IN RESPONSE TO THE IDENTIFICATION OF THE HUANGLONGBING (HLB) DISEASE IN RIVERSIDE, AS SPREAD BY THE ASIAN CITRUS PSYLLID. HAS DETERMINED TO

THE PROJECT WOULD DEVELOP THE EXISTING AGRICULTURAL OPERATIONS FIELD 11C FOR ONE CUPS STRUCTURE. PROJECT INCLUDES SITE DEVELOPMENT, SOIL FUMIGATION, STORM WATER MANAGEMENT, UTILITIES, VESTIBULE ACCESS, CUPS STRUCTURE DESIGN, DE CONFLICTION OF

GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE "STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)", LATEST EDITION (INCLUDING THE LATEST SUPPLEMENTAL AMENDMENTS THERETO), THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC)", LATEST EDITION (INCLUDING THE LATEST SUPPLEMENTAL AMENDMENTS THERETO), LATEST EDITION. ALL WORK SHALL BE COMPLETED TO THE
- FROM RECORD AND FIELD DATA. THE ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES WHETHER SHOWN
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR(S) SHALL BEAR ALL EXPENSE FOR THE REPAIR OR REPLACEMENT OF UTILITIES AND ALL OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF WORK.
- CONTRACTOR SHALL, PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING PROJECT CONDITIONS, INCLUDING DIMENSIONS AND UTILITY LOCATIONS AND UTILITY SIZES.
- FIELD INFORMATION OF DISCREPANCIES SHALL BE RECORDED ON A REPRODUCIBLE DOCUMENT AND IMMEDIATELY TRANSMITTED TO THE
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES, PRIOR TO CONTINUING.
- ALL REQUIRED CITY AND COUNTY LICENSES SHALL BE ACQUIRED AND PAID FOR BY THE INDIVIDUAL TRADES
- 10. ALL CONTRACTORS SHALL HAVE VALID CERTIFICATES OF WORKMAN'S COMPENSATION ON FILE WITH THE APPROPRIATE AGENCIES.
- RECOMMENDATIONS. SHOULD ANY UNUSUAL CONDITIONS BECOME APPARENT DURING GRADING OR FOUNDATION CONSTRUCTION NOTIFY THE SOILS ENGINEER FOR INSTRUCTIONS PRIOR TO CONTINUING WORK.
- ACCURATE AS-BUILT DRAWINGS SHALL BE GENERATED BY CONTRACTOR DURING CONSTRUCTION AND SUBMITTED TO OWNER UPON COMPLETION OF FINAL PUNCH LIST, BUT PRIOR TO REQUEST FOR FINAL PAYMENT
- 15. SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE THE "ENCROACHMENT PERMIT" WILL BE VALID. FOR YOUR DIG ALERT ID NUMBER, CALL UNDERGROUND SERVICE ALERT (TOLL FREE) AT 1-800-227-2600, TWO WORKING DAYS BEFORE YOU DIG.

GENERAL NPDES NOTES

- 1. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIAL SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES, ESPECIALLY WHEN RAIN EVENT IS IMMINENT.
- 2. DEVICE SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY INSPECTOR
- ALL PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORK DAY AS WELL AS THROUGH WEEKENDS AND HOLIDAYS.
- 4. AFTER A RAIN STORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, DESILTING BASINS, AND OTHER EROSION CONTROL DEVICES.
- 5. ANY GRADED SLOPE SURFACE PROTECTION MEASURE DAMAGED DURING A RAIN STORM SHALL BE REPAIRED IMMEDIATELY
- 6. FILL SLOPES AT CONSTRUCTION SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPES AT THE END OF EACH WORK DAY.
- 7. A COPY OF THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED AT THE CONSTRUCTION SITE AND BE ALWAYS AVAILABLE FOR REVIEW.
- 8. PROTECT ALL STORM DRAINAGE STRUCTURES FROM SEDIMENT CLOGGING BY PROVIDING INLET PROTECTION AT ALL OPENINGS.
- 9. AVOID CONDUCTING CONSTRUCTION WORK DURING WET WEATHER.
- 10. STORE CONSTRUCTION RELATED MATERIALS AWAY FROM DRAINAGE COURSES TO PREVENT CONTACT WITH STORMWATER.
- PLACE DRIP PANS UNDER CONSTRUCTION EQUIPMENT WHEN NOT IN USE.
- 12. CLEAN UP LEAKS AND SPILLS IMMEDIATELY USING ABSORBENT MATERIALS AND DISPOSE OF PROPERLY
- 13. COLLECT AND REMOVE ALL BROKEN ASPHALT FROM THE SITE. REMOVED ASPHALT MUST BE DISPOSED OF PROPERLY
- 14. KEEP WORK SITE CLEAN AND ORDERLY ON DAILY BASIS.
- 15. PROPERLY STORE PAINTS AND SOLVENTS.
- 16. PERMANENTLY MARK STORM DRAIN STRUCTURES IN A MANNER APPROVED BY THE CITY CONSTRUCTION INSPECTOR TO MINIMIZE INADVERTENT DISPOSAL OF RESIDUAL PAINTS, SOLVENTS, OR ANY OTHER POLLUTANTS.
- 17. ALLOW CONSTRUCTION RELATED MATERIAL DELIVERY AND STORAGE ONLY IN DESIGNATED AREAS AND AVOID TRANSPORT NEAR DRAINAGE PATHS AND WATERWAYS.
- 18. MINIMIZE THE USE OF HAZARDOUS MATERIAL ON SITE.
- 19. USE WATERTIGHT DUMPSTERS FOR TRASH AND CONSTRUCTION WASTE.
- 20. COLLECT SITE TRASH AS NEEDED, ESPECIALLY DURING RAINY OR WINDY CONDITIONS. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW.
- 21. PAINT BRUSHES OR CONTAINERS ARE TO BE CLEANED OUT ONLY AT THE DESIGNATED AREA, WHICH PROVIDES FOR FULL CONTAINMENT OF PAINT LADEN LIQUID AND RESIDUE FOR PROPER DISPOSAL

23. TEMPORARY SANITATION FACILITIES SHALL BE MAINTAINED IN GOOD WORKING ORDER BY A LICENSED MAINTENANCE SERVICE PROVIDER.

- 22. PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY. WASHOUT AREAS SHALL BE LOCATED AWAY FROM STORM
- DRAINS, OPEN DITCHES, STREETS, OR ANY DRAINAGE COURSE.
- 24. CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THIS PLAN THROUGHOUT CONSTRUCTION AND INDICATE ANY AND ALL REVISIONS/UPDATES ON THIS PLAN.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER THAT STORMWATER WILL BE CONTAINED WITHIN THE PROJECT AREA OR CHANNELED INTO STORM DRAIN SYSTEM PROVIDED THAT DRAINAGE IS FREE OF POLLUTANTS, SEDIMENTS, AND DEBRIS.
- 26. APPROVAL OF PLANS DOES NOT RELIEVE THE CONTRACTOR FROM CORRECTING ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN SHALL IN NO WAY RELIEVE THE DEVELOPER FROM HIS/HER
- RESPONSIBILITIES TO THE SITE AND ADJACENT PROPERTIES 27. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES
- RESULT OF THE CONSTRUCTION ON THIS PROPERTY. 28. CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PROTECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO; GRADED DITCHES, SAND OR GRAVEL BAGS, BARRIERS AND SILT FENCING. CARE SHALL BE EXERCISED TO PRESERVE

VEGETATION BEYOND LIMITS OF GRADING AND PREVENT SEDIMENT DISCHARGE WHILE CONSTRUCTION IS IN PROGRESS IN THE AREA.

AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A

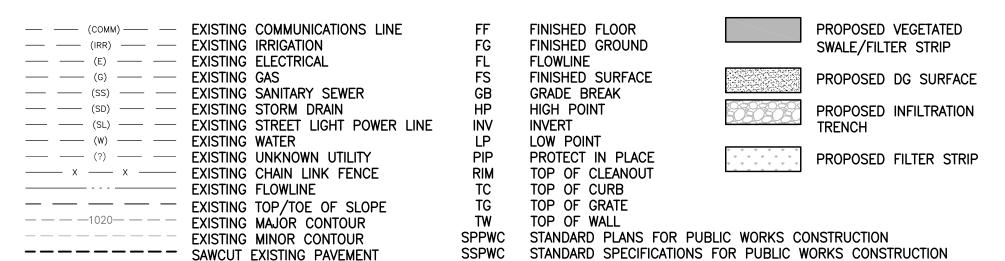
- 29. SEDIMENT CONTROL SHALL BE USED AT THE TOE OF ANY ERODIBLE SLOPE.
- 30. CONTRACTOR SHALL IMMEDIATELY RESTORE ANY DAMAGED EROSION CONTROL MEASURE IN THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES.
- 31. FACES OF FINISHED CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION. THE PERMANENT EROSION CONTROL MEASURES MAY CONSIST OF ADEQUATE SEEDING, PLANTING, AND JUTE MATTING. THE PROTECTION FOR THE SLOPES SHALL BE INSTALLED AS SOON AS PRACTICABLE AND PRIOR TO CALLING FOR FINAL APPROVAL.
- 32. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- 33. CONTRACTOR/SUB-CONTRACTOR SHALL BE FAMILIAR WITH AND TRAINED IN SEDIMENT AND EROSION CONTROL IN ACCORDANCE WITH THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK.

UNIVERSITY OF CALIFORNIA, RIVERSIDE

FIELD 11 C/D, CVC SCREEN HOUSE GRADING AND DRAINAGE PLAN

MARTIN LUTHER KING BOULEVARD FIELD HB

LEGEND



BENCHMARK AND BASIS OF BEARINGS

BASIS OF BEARINGS AND BENCHMARK BASED UPON UNIVERSITY CONTROL NETWORK POINTS 313 AND 314

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE SOLE NEGLIGENCE OF THE OWNER AND/OR THE ENGINEER OF RECORD.

- ALL AVAILABLE RECORDS FROM THE UNIVERSITY AND UTILITY COMPANIES HAVE BEEN INVESTIGATED AND ALL KNOWN UTILITY CONDUITS AND SUBSTRUCTURES ARE SHOWN HEREON. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITY CONDUITS AND SUBSTRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS BY "POT HOLING" PROR TO CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR AND/OR REPLACEMENT OF SAID UTILITY CONDUITS AND SUBSTRUCTURES DAMAGED BY HIS OPERATION IN CONNECTION WITH THE LIMITS OF THIS PROJECT. CONTRACTOR TO POT HOLE AND VERIFY EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITY CROSSING PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND THE PROJECT DRAWINGS. COMMENCEMENT OF WORK INDICATES ACCEPTANCE OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN BY THE CONTRACTOR.
- EXISTING UTILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. RELOCATION OR REMOVAL OF ANY EXISTING UTILITIES NOT COVERED BY THESE PLANS SHALL BE PERFORMED BY OR UNDER THE DIRECTION OF THE RESPECTIVE UTILITY OWNERS AT THE EXPENSE OF THE DEVELOPER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL, IF ANY, EXISTING SURVEY MONUMENTS.
- 4. THE CONTRACTOR SHALL POSSESS A VALID STATE CONTRACTOR'S LICENSE AND SHALL BE REQUIRED TO POSSESS A VALID CITY BUSINESS LICENSE WHILE PERFORMING WORK ON THIS PROJECT.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK COVERED
- THE CONTRACTOR(S) AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
- 7. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER OF RECORD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM
- 8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN HEREON AT THE JOB SITE PRIOR TO ANY CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES. REVISIONS TO THE PLAN SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO IMPLEMENTATION.
- UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

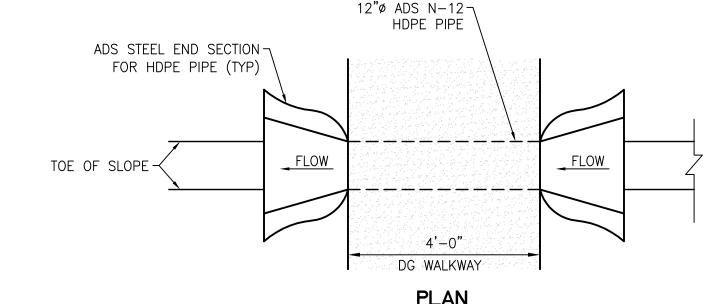
CONSTRUCTION NOTES

CONSTRUCTION NOTES	QUANTITY
1) CONSTRUCT 4' WIDE 4" THICK COMPACTED DECOMPOSED GRANITE PATH AROUND STRUCTURE	7,325 SF
2) CONSTRUCT INFILTRATION TRENCH PER DETAIL A/C1.01	4,4 15 SF

(3) CONSTRUCT FILTER STRIP (VEGETATED SWALE) PER DETAIL B/C1.01 (4) CONSTRUCT CULVERT PER DETAIL C/CO.01

-PROPOSED DG PATH 3'-6" VARIES

SECTION



ADS STEEL END SECTION

FOR HDPE PIPE

NOTES:

1. STEEL END SECTION TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS AND INSTALLATION GUIDELINES.

CULVERT (BRIDGE OVER SWALE) NOT TO SCALE

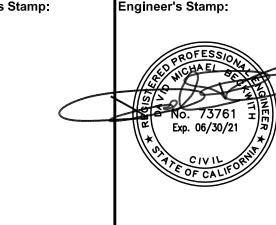
CONSTRUCTION

1223 UNIVERSITY AVENUE SUITE 240

TEL: (951) 827-1397 FAX: (951) 827-3890

Engineers Data:





Project No. 958092

University of California, Riverside Field 11 C/D, CVC Screen House





Project Manager Structural Engineer Mechanical Engineer Electrical Engineer Interior Designer Landscape Architect David Beckwith Civil Engineer

7.045 SF

2 EA

MARK DATE DESCRIPTION

Project Number 06/24/2020

UCR Project Manager: Scott Donnell

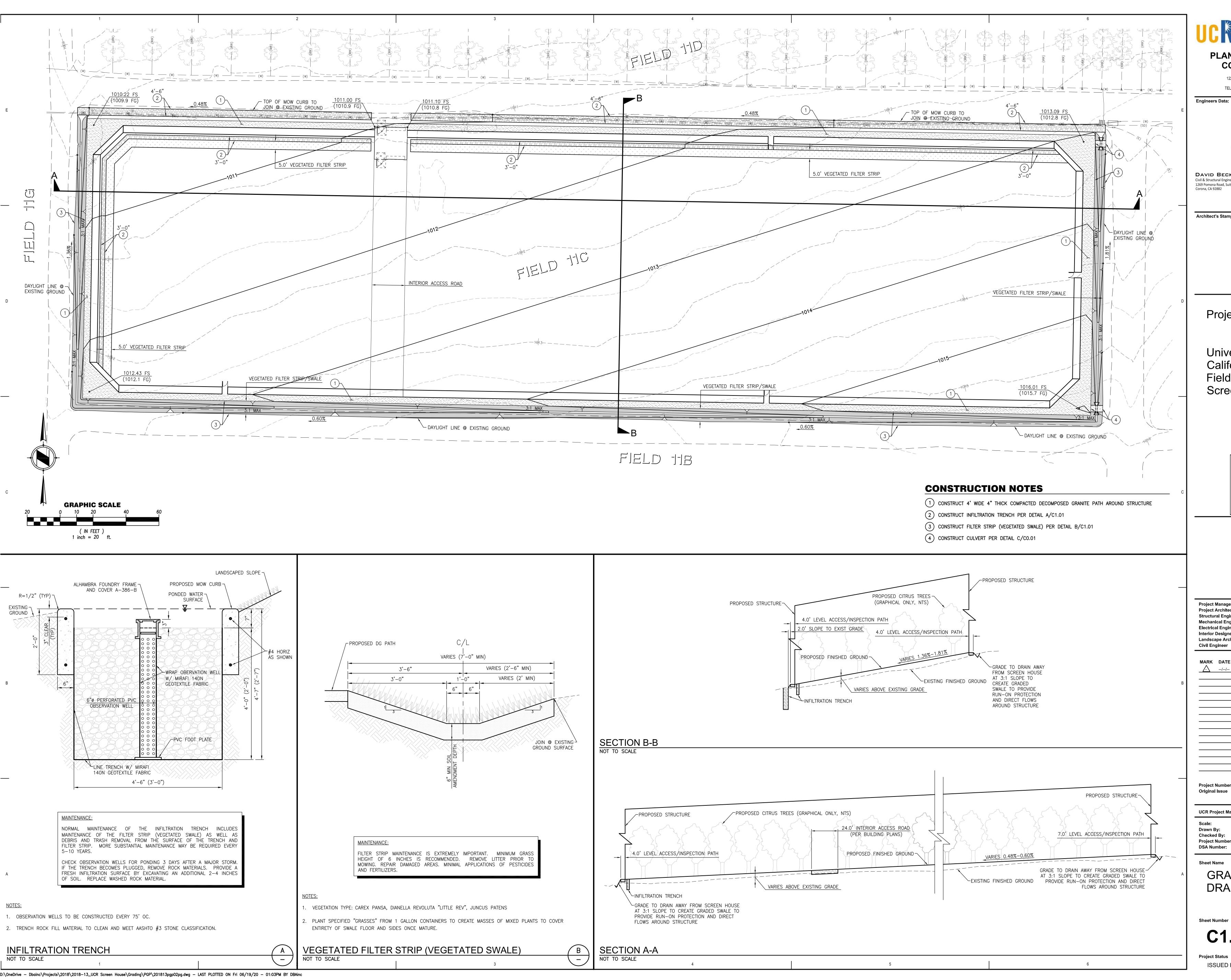
AS NOTED | SD Approval: DMB DD Approval: Checked By: DMB **CD Approval:** Project Number: 201813 Construction _{N/A} Release: DSA Number: 06/24/2020

Sheet Name TITLE SHEET

Sheet Number

Project Status

ISSUED FOR BID Reviewed for Code Compliance



Building Permit B19-270 **PLANNING, DESIGN &**

CONSTRUCTION

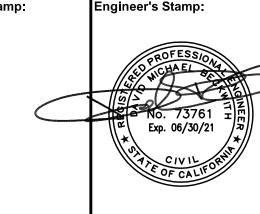
Engineers Data:



1223 UNIVERSITY AVENUE SUITE 240 RIVERSIDE, CA. 92521 TEL: (951) 827-1397 FAX: (951) 827-3890

Civil & Structural Engineering - Land Surveying - QSD/QSP Environmental Services 1269 Pomona Road, Suite 108

Architect's Stamp:



Project No. 958092

University of California, Riverside Field 11 C/D, CVC Screen House





Project Manager	Tapati Bose
Project Architect	
Structural Engineer	
Mechanical Engineer	
Electrical Engineer	-
Interior Designer	-
Landscape Architect	Greg Meek
Civil Engineer	David Beckwith

MARK DATE DESCRIPTION

Project Number

UCR Project Manager: Scott Donnell

AS NOTED **SD Approval:** DMB DD Approval: Checked By: DMB CD Approval: ---Project Number: 201813 Construction N/A Release: 06/24/2020

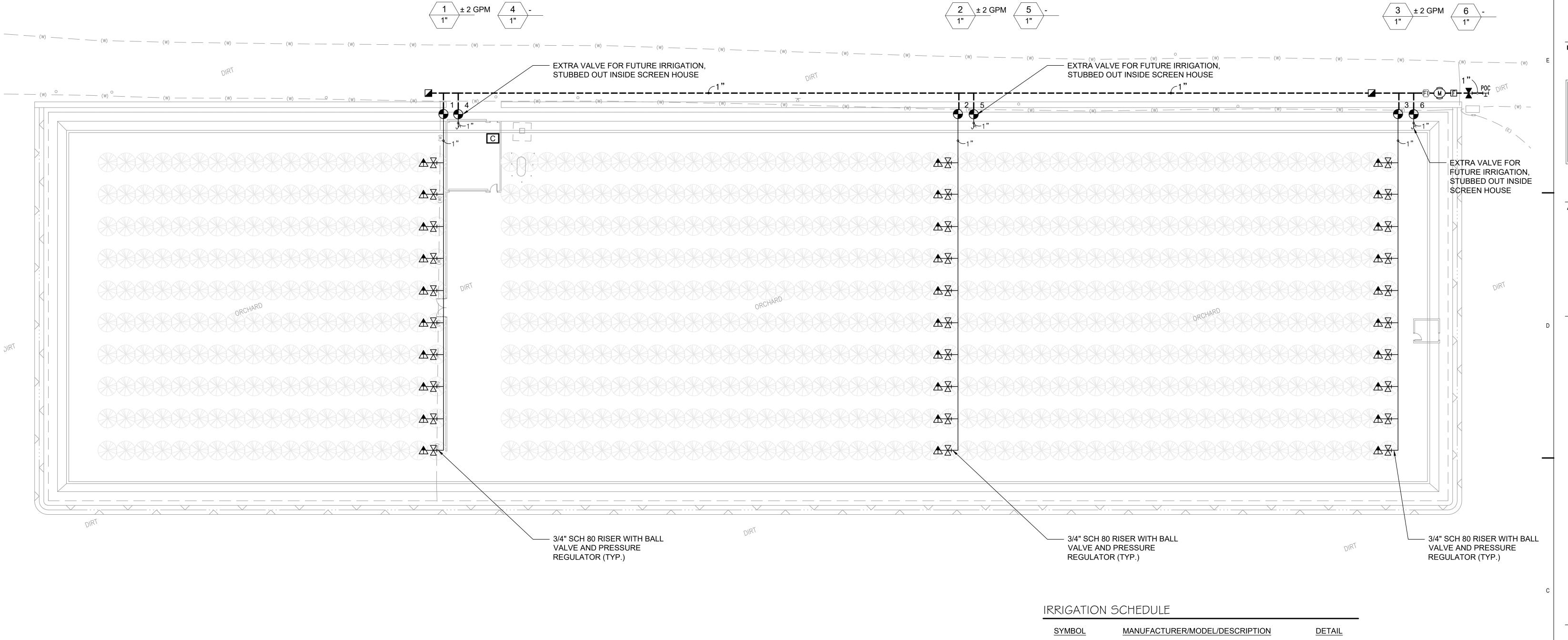
GRADING AND DRAINAGE PLAN

Sheet Number

C1.01

Project Status

ISSUED FOR BID Reviewed for Code Compliance 08/03/20



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
•	HUNTER ICV KBI PVC TRUE UNION BALL VALVE, 1" ICV-G-FS FILTER SENTRY GLOBE VALVE, AND 1" HY100 FILTER.	A/LI-02
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE	D/LI-02
X	KBI BALL VALVE SCH 80 RISER WITH 3/4" BALL VALVE - CPVC, CONNECT TO PRESSURE REGULATOR.	
*	NIBCO T-580 BRONZE THREADED BALL VALVE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION.	C/LI-02
(N)	NETAFIM ER REGISTER 1-1/2" 1-1/2" MASTER VALVE/FLOW SENSOR. CAST IRON WITH POWDER-COATED FINISH. LHM15EM11AAFMEL	B/LI-02
\triangle	HUNTER PRL (3/4") PRESSURE REGULATOR PRL303F3F	
С	HUNTER A2C-1200-M 12-STATION CONTROLLER IN AN OUTDOOR GRAY STEEL WALL MOUNT ENCLOSURE.	E/LI-02
E	NETAFIM 2" LP DISC-KLEEN LOW FLOW PRESSURE 1-50GPM, 2" COMPACT LP DISC-KLEEN FILTERS, WITH 120 MESH. INCLUDES BACKFLUSH CONTROLLER. 26LP2PP2120AC	
(FI)	EZ-FLO FERTILIZING SYSTEMS EZ001-CX INSTALL DIRECTLY IN THE IRRIGATION MAIN LINE AFTER THE MASTER VALVE. TANK CAPACITY: 1.5 G.	G/LI-02
(FI)	EZ-FLO FERTILIZING SYSTEMS EZ001-CX INSTALL DIRECTLY IN THE IRRIGATION MAIN LINE AFTER THE MASTER VALVE. TANK CAPACITY: 1.5 G.	G/LI-02
POC 남	POINT OF CONNECTION 3" EXISTING IRRIGATION LINE	
	— IRRIGATION LATERAL LINE: PVC SCHEDULE 40	F/LI-02
	- IRRIGATION MAINLINE: PVC SCHEDULE 40	F/LI-02
/ \ "	Valve Callout Valve Number	
/ # ♦ \ # •—	Valve Flow	

UCRIVERSITY OF CALIFORNIA
UCRIVERSITY OF CALIFORNIA
PLANNING, DESIGN &

CONSTRUCTION

1223 UNIVERSITY AVENUE SUITE 240
RIVERSIDE, CA. 92521
TEL: (951) 827-1397 FAX: (951) 827-3890

Landscape Architect's Data:



Architect's Stamp: Landscape Arch. Stamp:



Project No. 958092 CAAN No. ____

University of California, Riverside Field 11 C/D, CVC Screen House



APPROVED

UR RIVERSIDE

Often of Portuge Design &
Contract Constitution Contract

Southern Septem of Constitution

Contract Constitution Constitution

Contract Contract Constitution

Contract Co

Project Manager	Dan Dozer
Project Architect	
Structural Engineer	
Mechanical Engineer	
Electrical Engineer	
Interior Designer	
Landscape Architect	Greg Meek
Civil Engineer	David Beckwith

Project Number 958092
Original Issue 04/03/2019

UCR Project Manager: Scott Donnell

Scale: AS NOTED SD Approval:
Drawn By: AL DD Approval:

Drawn By:
Checked By:
Project Number:

DSA Number:

AL
DD Approval:
CD Approval:
Construction
Release:
...

Sheet Name

IRRIGATION PLANS

Sheet Number

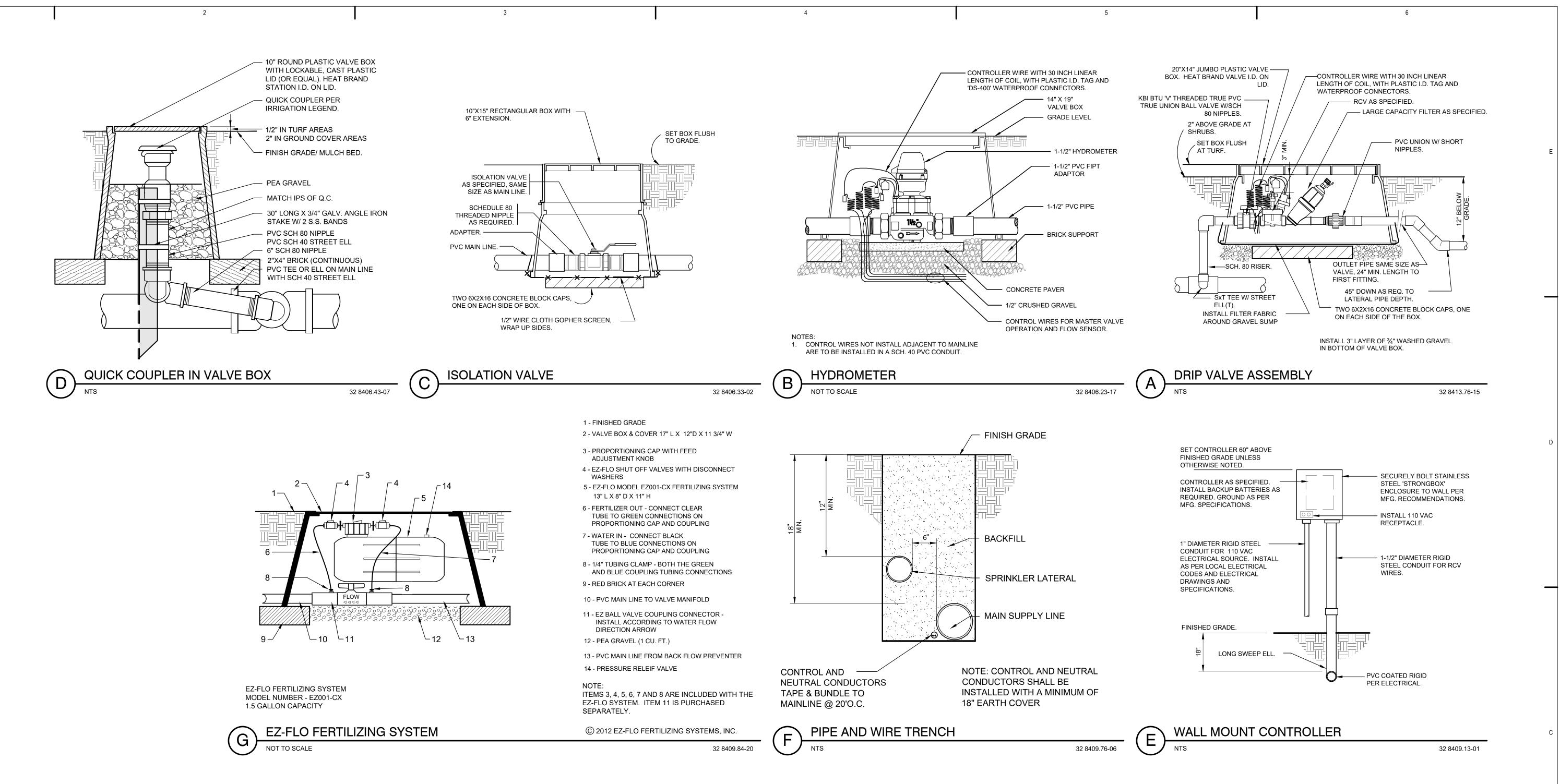
GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft. LI.01

Project Status
95% CONSTRUCTION DRAWINGS

Reviewed for Code Compliance 08/03/20

6 95% (C:\Ueere\AndrewL\AppData\Local\Temp\AcPublish_8596\Irrigation Plan.dwg - LAST PLOTTED ON Thu 02/20/20 - 04:41PM BY AndrewL



C:\Users\AndrewL\AppData\Local\Temp\AcPublish_8596\Irrigation Plan.dwg — LAST PLOTTED ON Thu 02/20/20 — 04:41PM BY AndrewL

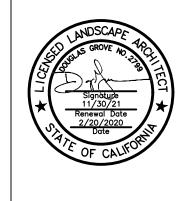
UCRIVERSITY OF CALIFORNIA
UCRIVERSITY OF CALIFORNIA
PLANNING, DESIGN &
CONSTRUCTION

1223 UNIVERSITY AVENUE SUITE 240 RIVERSIDE, CA. 92521 TEL: (951) 827-1397 FAX: (951) 827-3890

Landscape Architect's Data:



Architect's Stamp: Landscape Arch. Stamp:



Project No. 958092 CAAN No. ____

University of California, Riverside Field 11 C/D, CVC Screen House





ject Manager	Dan Dozer
ject Architect	
uctural Engineer	
chanical Engineer	
ctrical Engineer	
erior Designer	
ndscape Architect	Greg Meek
il Engineer	David Beckwith

MARK DATE DESCRIPTION

10JUN20 ISSUED FOR BID

Project Number

Original Issue

UCR Project Manager: Scott Donnell

UCR Project Manager: Scott Donn

Scale:AS NOTEDSD Approval:---Drawn By:ALDD Approval:---Checked By:GMCD Approval:---Project Number:19141ConstructionDSA Number:N/ARelease:---

04/03/2019

Sheet Name

IRRIGATION DETAILS

Sheet Number

LI.02

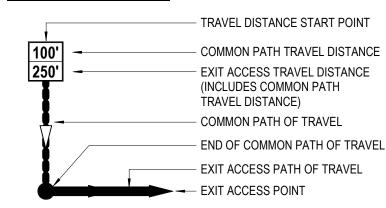
Project Status
95% CONSTRUCTION DRAWINGS

Reviewed for Code Compliance 08/03/20

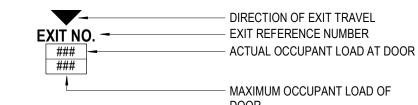
EGRESS PLAN LEGEND

OCCUPANT LOAD TAG ROOM NAME - ROOM NAME ROOM NUMBER - ROOM OCCUPANCY

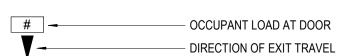
PATH OF TRAVEL SYMBOLOGY



EXIT DOOR OCCUPANT LOAD TAG



INTERIOR DOOR OCCUPANT LOAD TAG

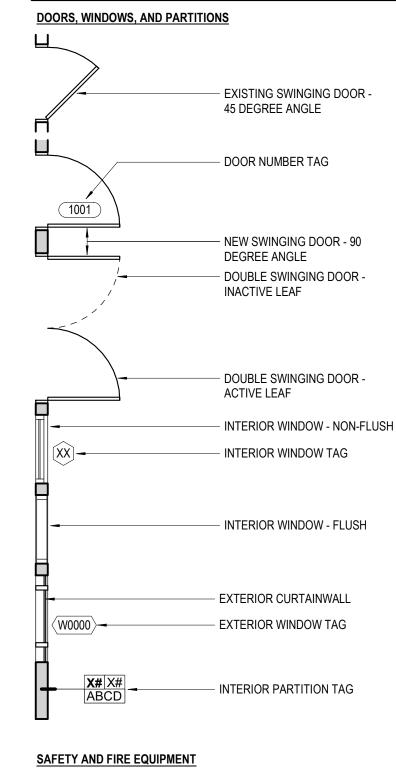


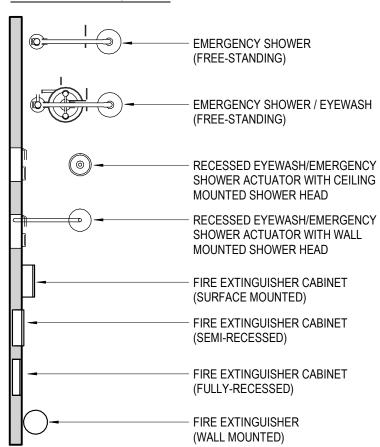
FIRE SPECIALTIES AND EXIT SIGNAGE



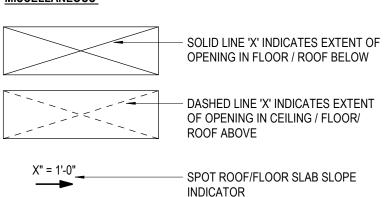


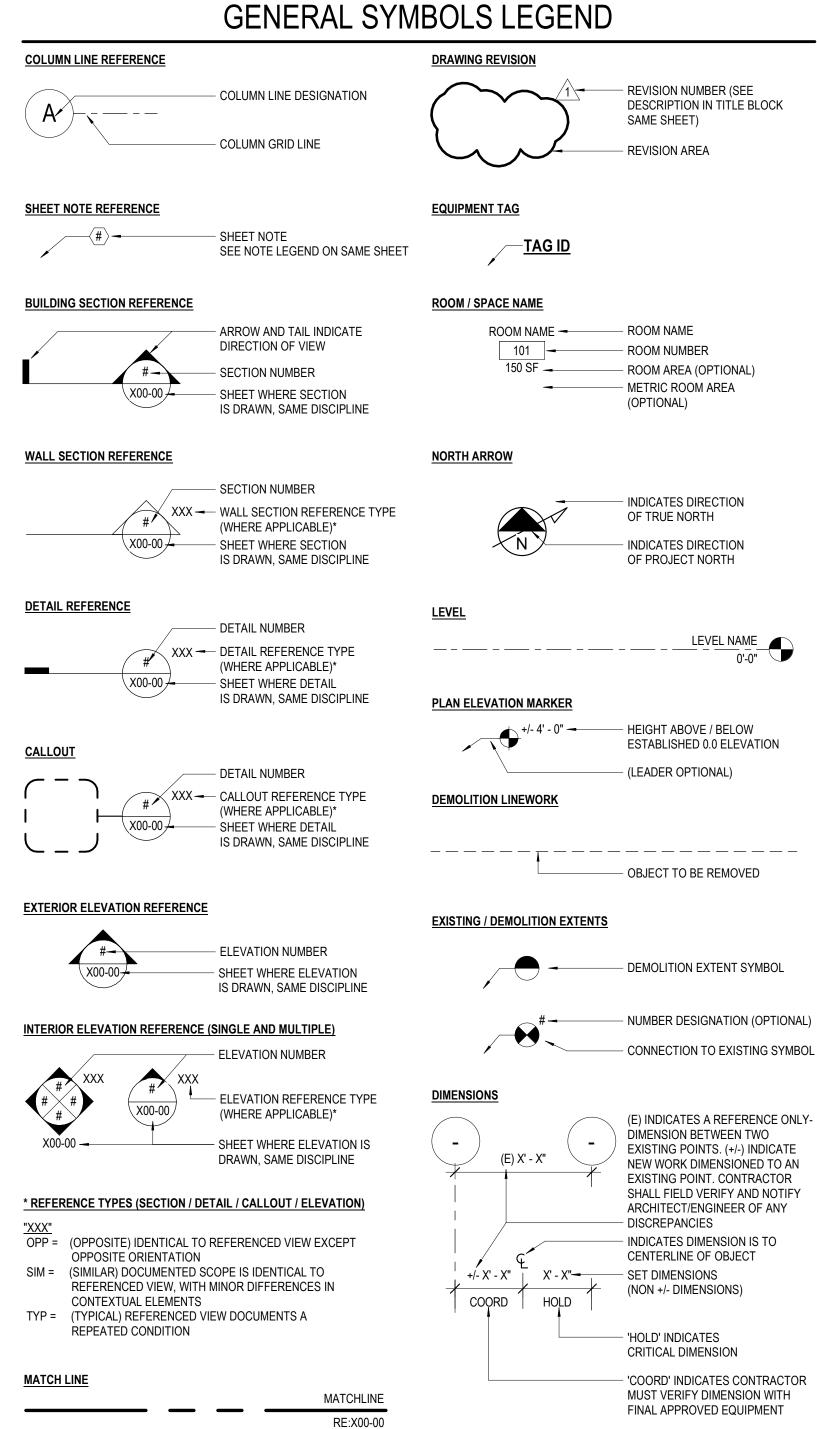
ARCHITECTURAL SYMBOLS





MISCELLANEOUS





- INDICATES ALIGNMENT OF

FINISHED FACE OF TWO ELEMENTS

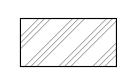
MATERIALS LEGEND

CUT PATTERN	SURFACE PATTERN	
		CONCRETE
		CMU (UNIT SIZE AS SPECIFIED)
		BRICK (UNIT SIZE AS SPECIFIED)
		STEEL
		ALUMINUM
		FINISH WOOD- PLANKS/BOARDS (SIZE/ TYPE AS SPECIFIED)
		FINISH WOOD - PANELS (SIZE/ TYPE AS SPECIFIED
	N/A	ROUGH WOOD - PLYWOOD
	N/A	PLASTIC
N/A	11 11 11	GLASS / GLAZING
	N/A	EARTH
		ODAVEL / CTONE EILL

(PLAN) PARTITION LEGEND

SCREEN	 METAL PANE

OCCUPANCY USE **GROUP LEGEND**



"U" (UTILITY / MISCELLANEOUS)

PROJECT NOTES

- SITE VISIT & EXISTING CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE. THE VARIOUS PLANS ARE NOT INTENDED AS SURVEYS OF EXISTING CONDITIONS AND ONLY INDICATE IN GENERAL CERTAIN CONDITIONS RELATED TO THE WORK TO BE DONE. INFORMATION REGARDING EXISTING CONDITIONS HAS BEEN DETERMINED AS REASONABLY AS POSSIBLE, BUT MAY NOT BE SHOWN EXACTLY. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH AND VERIFY EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF
- **CODE COMPLIANCE:** ALL WORK SHALL CONFORM WITH THE CURRENT APPLICABLE EDITIONS OF THE CODE, THE RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY AND THE NATIONAL BOARD OF UNDERWRITERS. THE CONTRACTOR SHALL COMPLY WITH THESE AND ALL OTHER NATIONAL, STATE AND LOCAL CODES. WHERE UL, GYPSUM ASSOCIATION. OR UNIFORM BUILDING CODE CONSTRUCTION ASSEMBLIES ARE DESIGNATED, THE COMPONENTS AND INSTALLATION DETAILS SHALL CONFORM IN EVERY PARTICULAR WITH THE DESIGN NUMBER SPECIFIED.
- COORDINATE THE CONSTRUCTION SCHEDULE AND OPERATIONS SCHEDULE WITH THE CONSTRUCTION COORDINATOR. WORK SHALL BE CONSTRUCTED IN PHASES 12. AS REQUIRED TO ACCOMMODATE OWNER'S REQUIREMENTS.
- MASTER CONSTRUCTION SCHEDULE:
 THE CONTRACTOR SHALL PROVIDE A "MASTER CONSTRUCTION SCHEDULE."
- "AS-BUILT" CONSTRUCTION SET: THE CONTRACTOR SHALL POSSESS AND MAINTAIN, AT THE JOB SITE, A CURRENT "AS-BUILT" DRAWING SET. THIS SET SHOULD REFLECT ALL APPROVED DESIGN DRAWING CHANGES. THIS SET IS TO BE KEPT IN GOOD CONDITION AND SHALL BE DELIVERED TO OWNER WITHIN TWO WEEKS AFTER THE COMPLETION OF THE
- ALL NEW CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CBC EARTHQUAKE RESISTANT DESIGN, CONSTRUCTION STANDARDS, AND SPECIFICATIONS FOR SEISMIC BRACING AND SUPPORT OF ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PIPING, AND ELECTRICAL WORK. PROVIDE SEISMIC ANCHORS AT ALL EQUIPMENT, BENCHES, AND SHELVES.
- **MATERIALS AND METHODS:** ALL MATERIALS FOR THIS CONSTRUCTION SHALL BE NEW, UNO. OWNER RESERVES THE RIGHT TO APPROVE ALL MATERIALS, WHICH SHALL BE IN STRICT ACCORDANCE WITH OWNER SPECIFICATIONS OR AS NOTED ON THE CONSTRUCTION DOCUMENTS. IF ANY PORTION OF THE WORK (EITHER THE MATERIALS OR THE METHODS OF INSTALLATION) IS DETERMINED TO BE DEFECTIVE, THE CONTRACTOR SHALL REPLACE THAT PORTION, WITH NO ADDITIONAL COST TO OWNER, AS PART OF THE ORIGINAL CONTRACT.
- APPLICABLE FEES AND PERMITS: OWNER WILL PAY FOR THE BUILDING PERMIT AND THE GENERAL CONTRACTOR WILL OBTAIN IT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR ALL TRADE PERMITS, MISCELLANEOUS FEES, INSPECTIONS, AND TAXES.

- THE LOCATION SHOWN FOR EXISTING UTILITY MAINS ARE APPROXIMATE ONLY. THE ACCURACY OR COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED. VERIFY LOCATION OF ALL UTILITY LINES, CONDUITS, SURFACE OR SUBSURFACE STRUCTURES, ETC., OF ANY NATURE THAT MAY BE AFFECTED BY THE WORK. VERIFY ACTUAL LOCATION AND DEPTH AND REPORT POTENTIAL CONFLICTS TO THE ENGINEER PRIOR TO EXCAVATING FOR NEW FACILITIES.
- SHOULD ANY OF THE ABOVE ITEMS BE DISTURBED, DISCONNECTED, OR DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY PROPER AUTHORITIES AND THOSE PARTIES AFFECTED. CONTRACTOR SHALL BEAR ALL EXPENSES, OF WHATEVER NATURE, ARISING FROM SUCH DISTURBANCE, REPLACEMENT, OR REPAIR THEREOF, AND REPLACE OR REPAIR SUCH ITEMS AS REQUIRED.
- <u>UNIDENTIFIED ITEMS:</u>
 SHOULD ANY UNIDENTIFIED ITEM BE ENCOUNTERED DURING DEMOLITION OR CONSTRUCTION, DO NOT PROCEED UNTIL THE OWNER HAS BEEN NOTIFIED AND DIRECTION HAS BEEN GIVEN.
- ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF STATE AND FEDERAL OSHA REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
- <u>DUST CONTROL:</u> CONTRACTOR SHALL PROVIDE DUST CONTROL AT ALL TIMES.
- PATCH / PAINT / FINISHES:
- ALL ADJACENT EXISTING FINISHES DAMAGED OR AFFECTED BY DEMOLITION OR CONSTRUCTION OF NEW AREAS IN SCOPE OF WORK SHALL BE PATCHED AND REPAIRED TO MEET OWNER SATISFACTION.
- MECHANICAL & ELECTRICAL EQUIPMENT: ALL MECHANICAL & ELECTRICAL EQUIPMENT SHALL HAVE A UL DESIGN LISTING/NUMBER. ANY EQUIPMENT NOT LISTED WILL BE REQUIRED TO BE FIELD TESTED AND CERTIFIED BY AN APPROVED AGENCY.
- **DEMOLITION COORDINATION:** COORDINATE ALL DEMOLITION ON PLANS WITH ARCHITECTURAL, MECHANICAL, PROCESS PIPING, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS. DEMOLISH AS REQUIRED TO SUPPORT NEW WORK.
- ALL LANDSCAPING AND IRRIGATION DISTURBED BY IMPROVEMENTS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR WITHOUT ADDED COST TO



OFFICE OF THE STATE FIRE MARSHA

APPROVED FIRE AND PANIC ONLY Scott Jackson DCFM sj<mark>acks</mark>on07/14/2020 Approval of this plan does not authorize or

approve any omission or deviation from applicable regulations. Final approval is subject

to field inspection. One set of approved plans

shall be available on the project site at all times.

CONSULTING ARCHITECT/ENGINEER



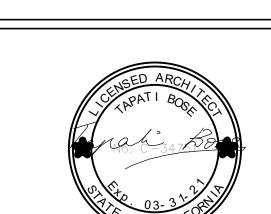
CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC. CRB ARCHITECTS-ENGINEERS P.C. 3207 GREY HAWK COURT SUITE 150 CARLSBAD, CA 92010 PHONE: 760-496-3714

FAX: 760-496-3711

PROJECT TITLE

FIELD 11C/D CVC SCREEN HOUSE

REV	BY	DATE	DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID



SHEET SIZE: 30x42 APPROVED BY: TB

> ARCHITECTURAL SYMBOLS

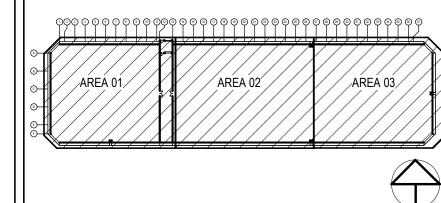
DRAWING NUMBER

A00-00

GENERAL NOTES REFER TO SHEET A00-00 FOR GENERAL SYMBOLOGY LEGEND EQUIPMENT DESIGNATIONS UTILIZED ACROSS ALL DISCIPLINES AND DRAWING NUMBERING SYSTEM LEGEND. OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Scott Jackson DCFM sjackson07/14/2020 Approval of this plan does not authorize or approv<mark>e any omissi</mark>on or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. OCCUPANCY SCHEDULE NAME AREA LOAD RATIO OCCUPANCY ACTUAL GROVE B 66060 SF 300 GROVE A 27256 SF 300 ENTRY 385 SF 300 VESTIBULE CIRCULATION 2877 SF 300 AISLE **OCCUPANCY LEGEND** ⊢ ILLUMINATED EXIT SIGN CONSULTING ARCHITECT/ENGINEER CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC. CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711 FIELD 11C/D CVC SCREEN HOUSE E PROJ. NO. 184816.00 SCALE: 1" = 20'-0" SHEET SIZE: 30x42 CHECKED BY: APPROVED BY: TB DRAWING TITLE ARCHITECTURAL **EXIT 3**56 217 LIFE SAFETY PLAN LEVEL 1 DRAWING NUMBER A01-10

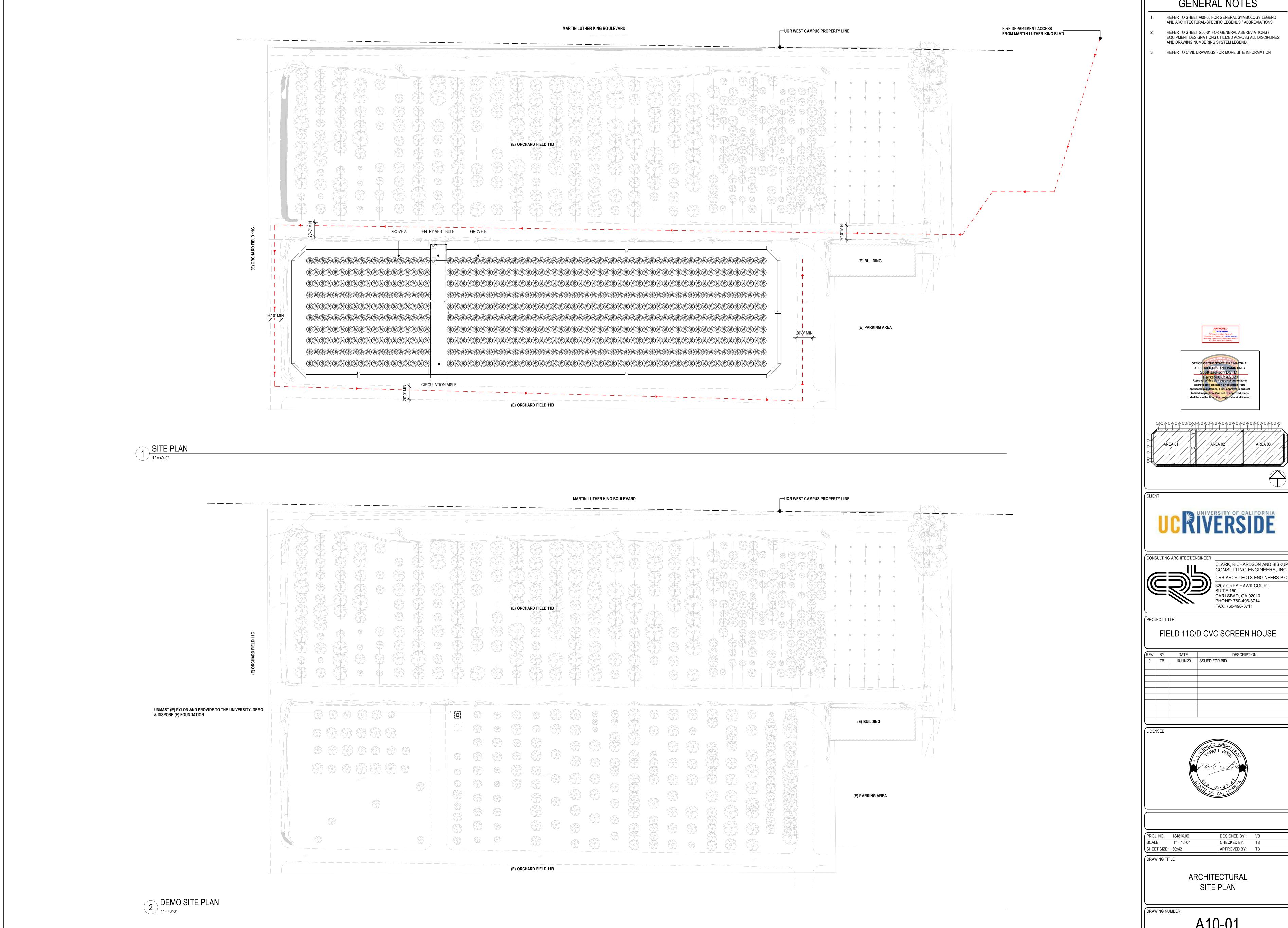
AND ARCHITECTURAL-SPECIFIC LEGENDS / ABBREVIATIONS. REFER TO SHEET G00-01 FOR GENERAL ABBREVIATIONS /

FE 2A 20 BC FIRE EXTINGUISHER COMPLY WITH CFC 906





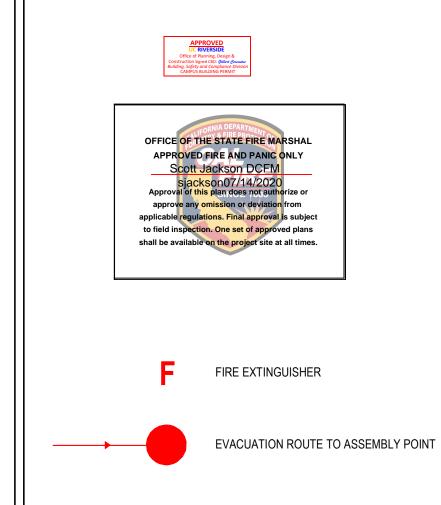
_			
REV	BY	DATE	DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID



GENERAL NOTES

A10-01

SE ORCHARD FIELD 110 SE ORCHARD FIELD 118



UCRIVERSITY OF CALIFORNIA

CONSULTING ARCHITECT/ENGINEER

3207 GREY HAWK COURT SUITE 150 CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC.

FIELD 11C/D CVC SCREEN HOUSE

REV	BY	DATE	DESCRIPTION	
0	TB	10JUN20	ISSUED FOR BID	

CENSED ARCHITECTURE OF CALLEDRING

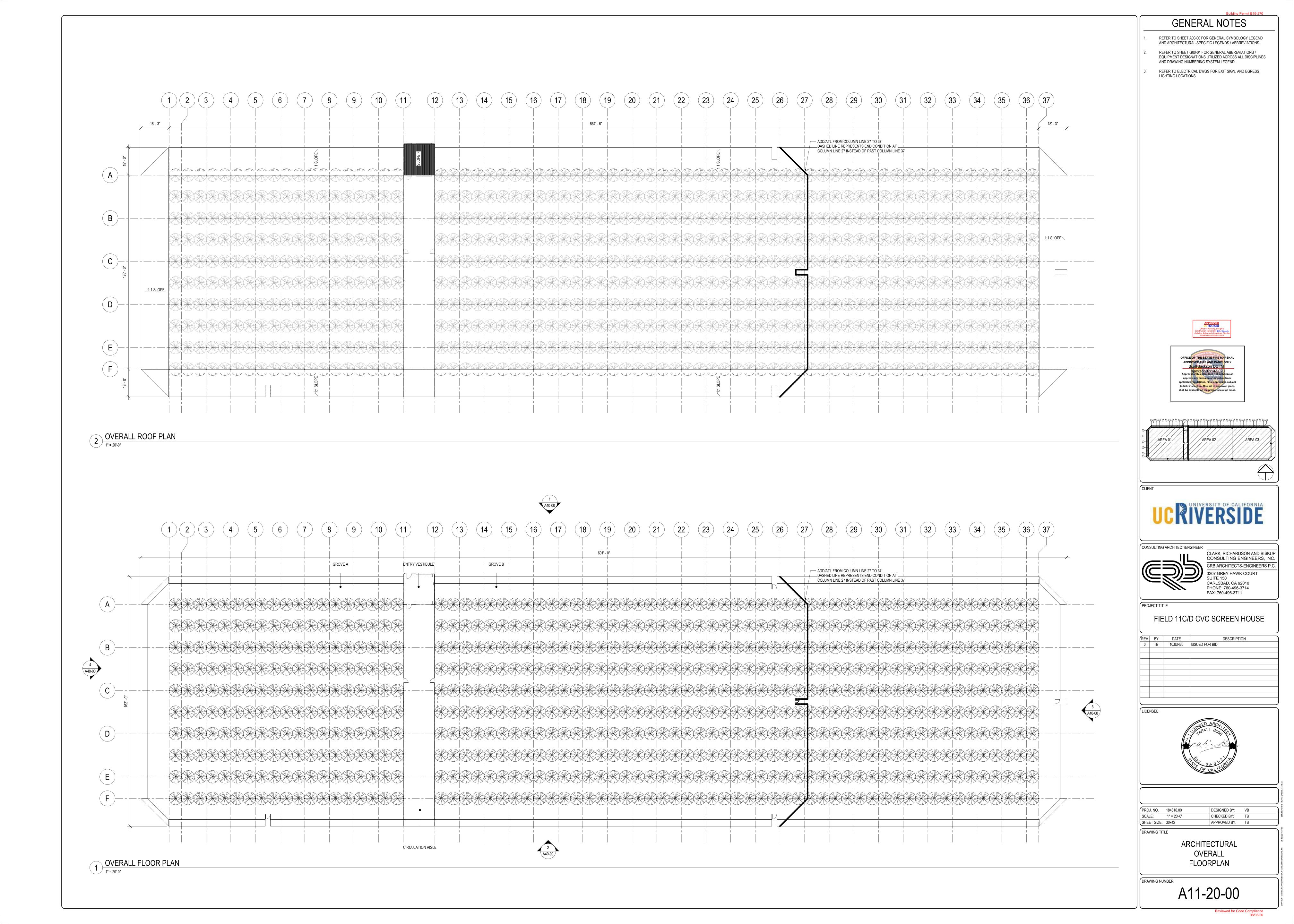
PROJ. NO. 184816.00	DESIGNED BY: VE
SCALE: 1" = 40'-0"	CHECKED BY: TE
SHEET SIZE: 30x42	APPROVED BY: TE

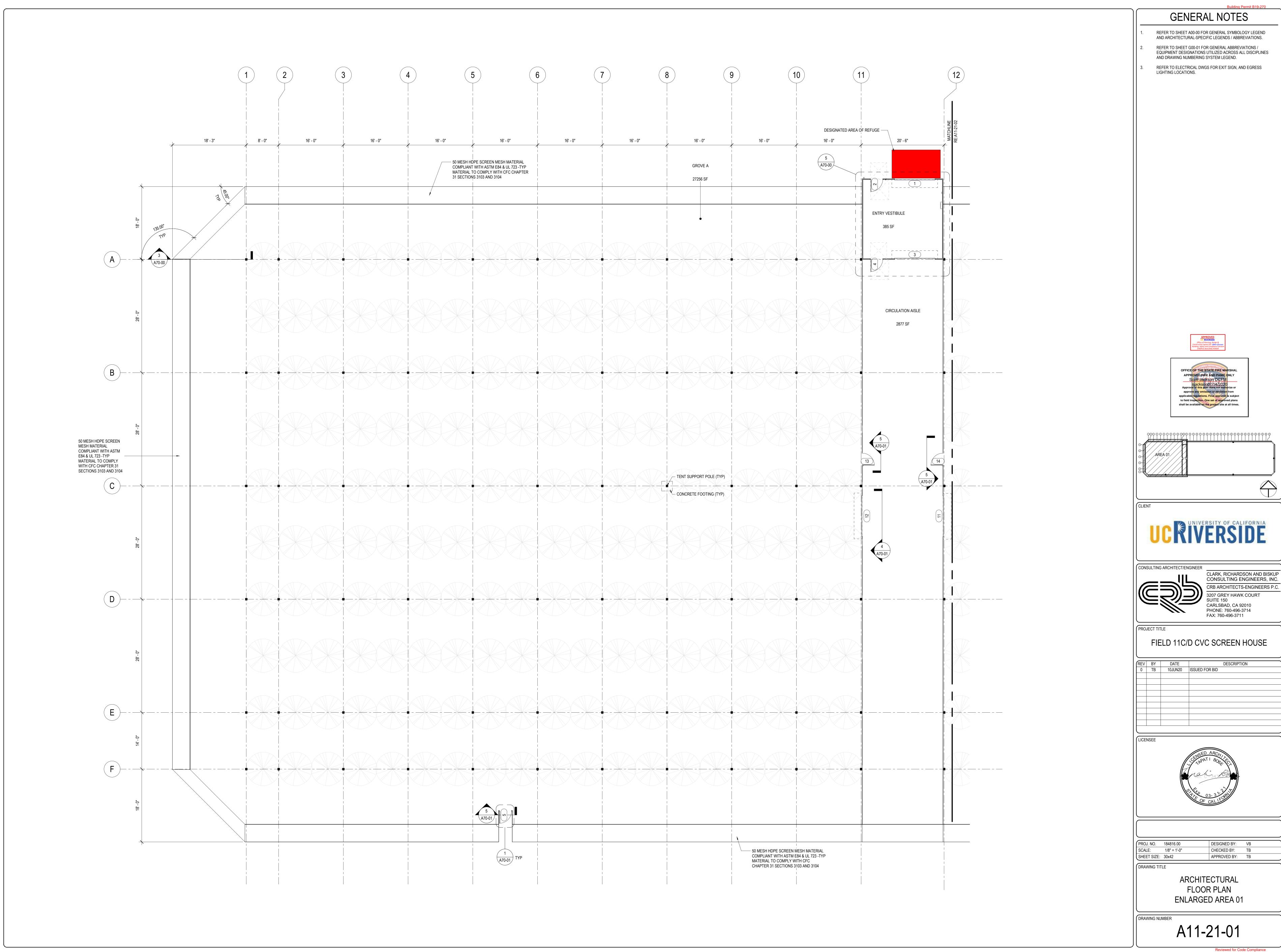
EMERGENCY EVACUATION PLAN

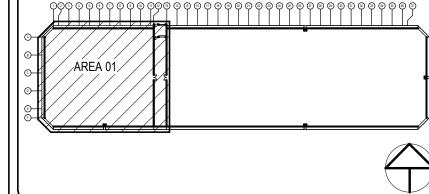
DRAWING NUMBER

A10-02

ode Compliance 08/03/20

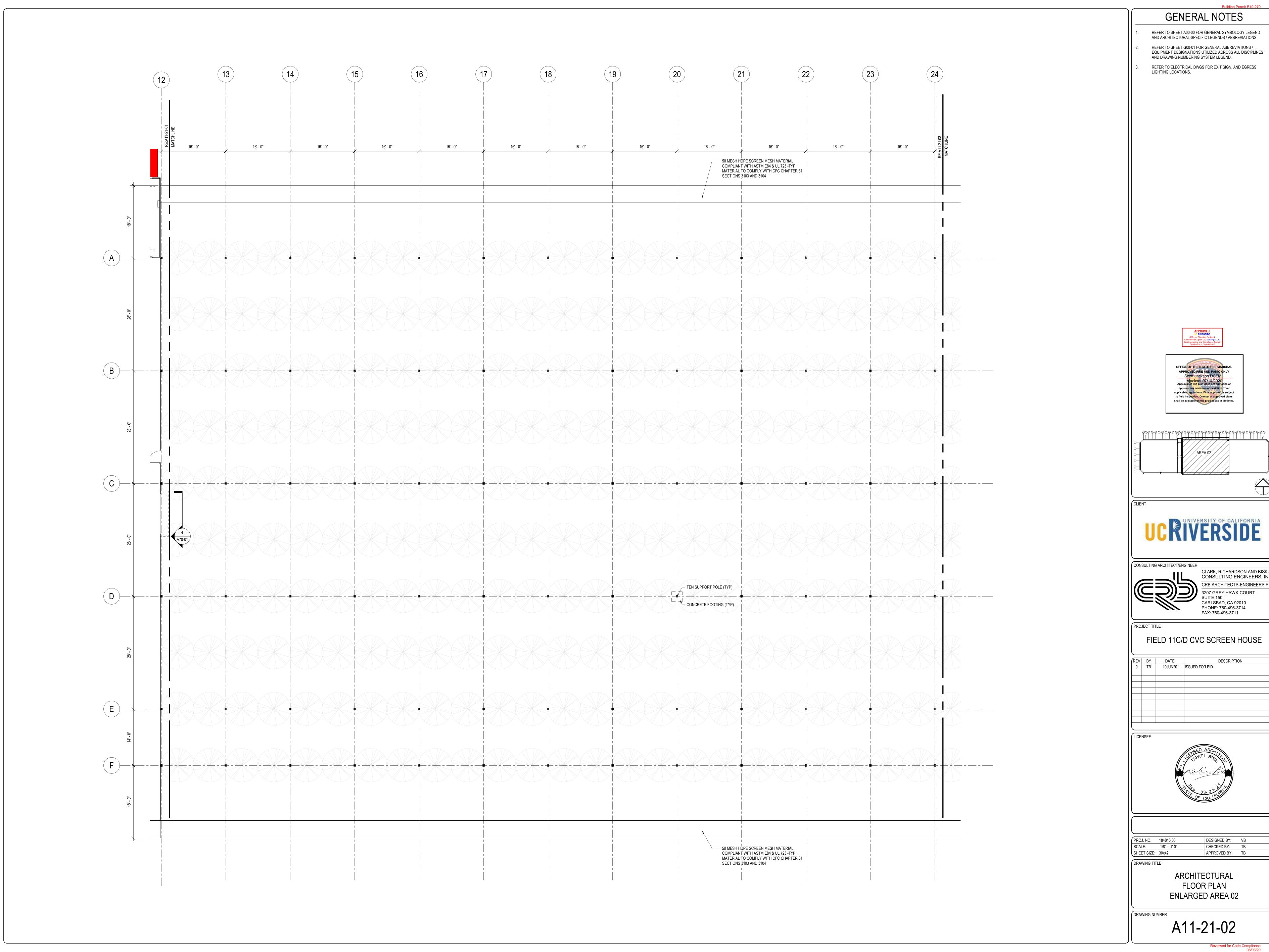


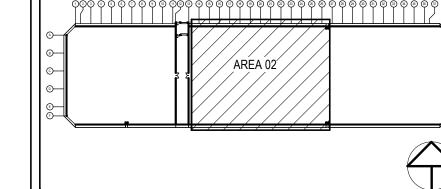




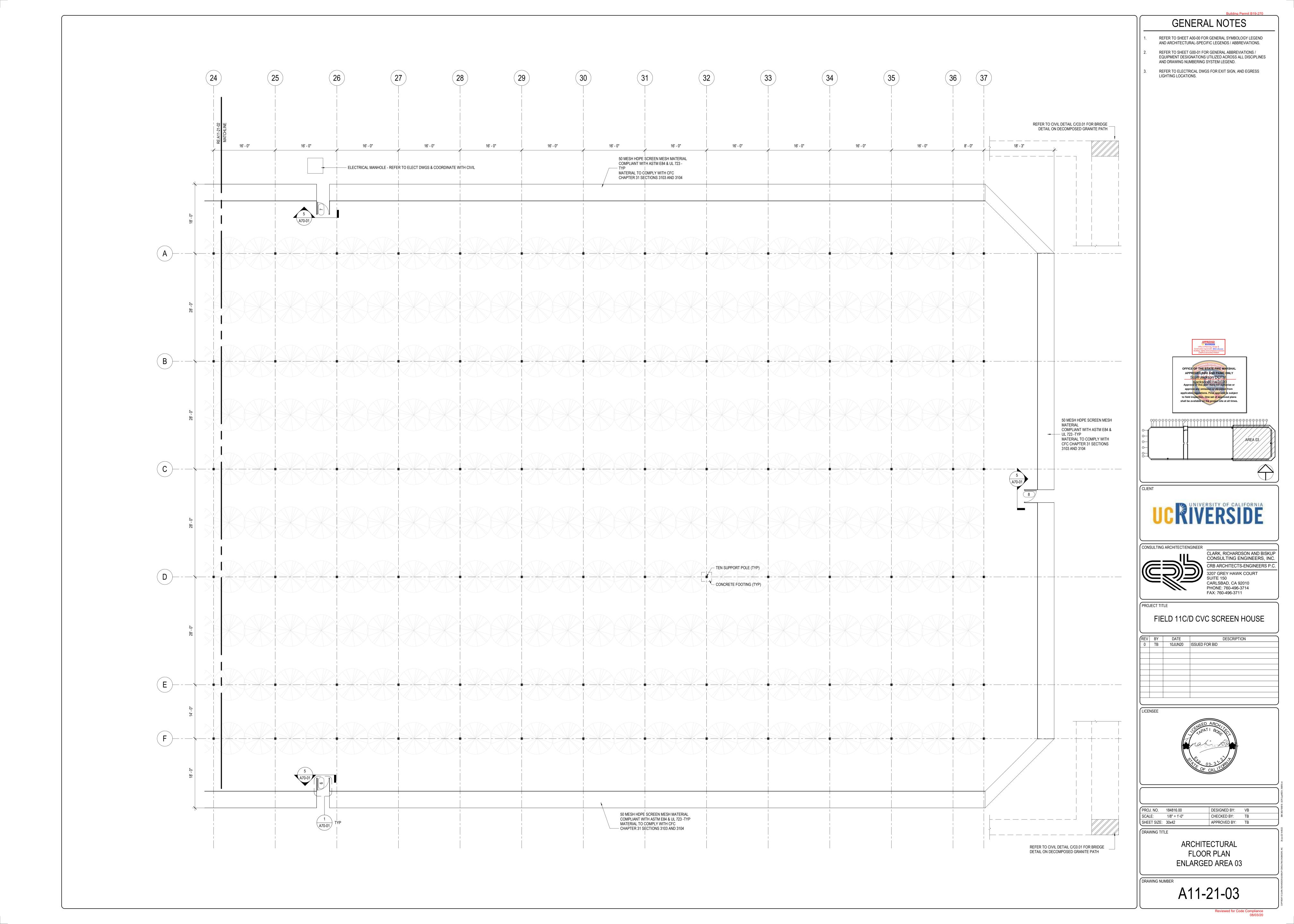


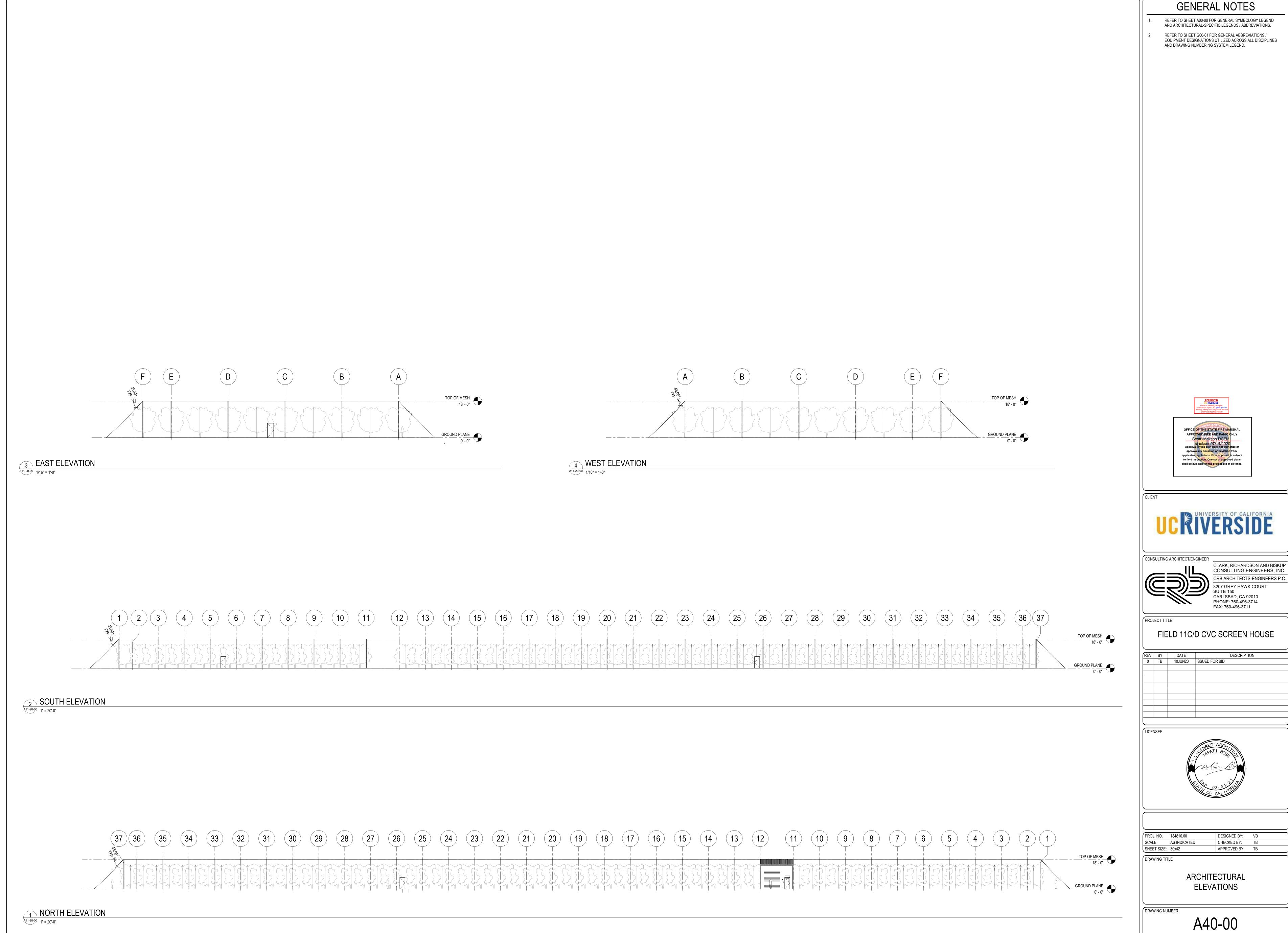
REV	BY	DATE	DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID

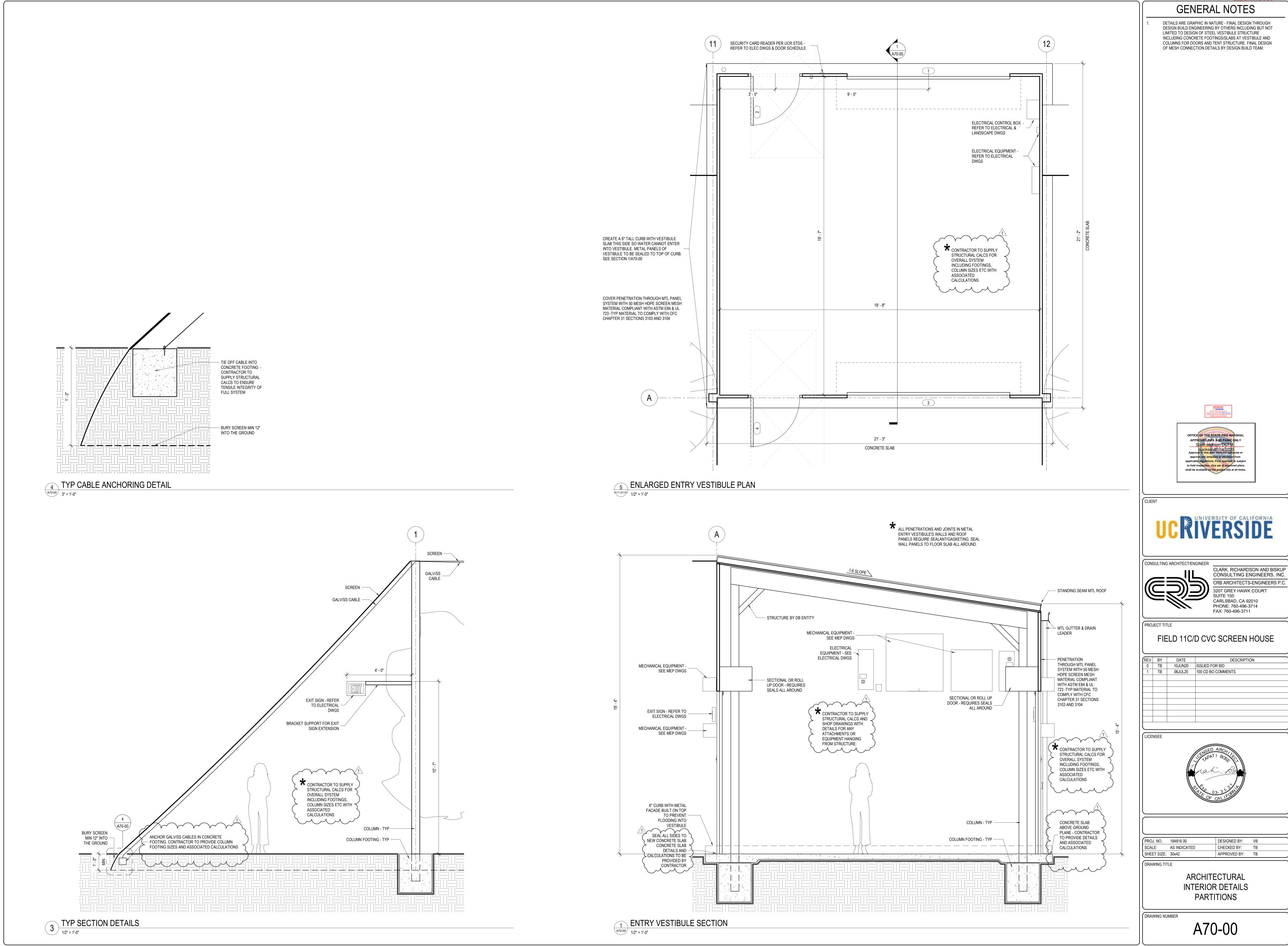




(REV	BY	DATE		DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID	
				·

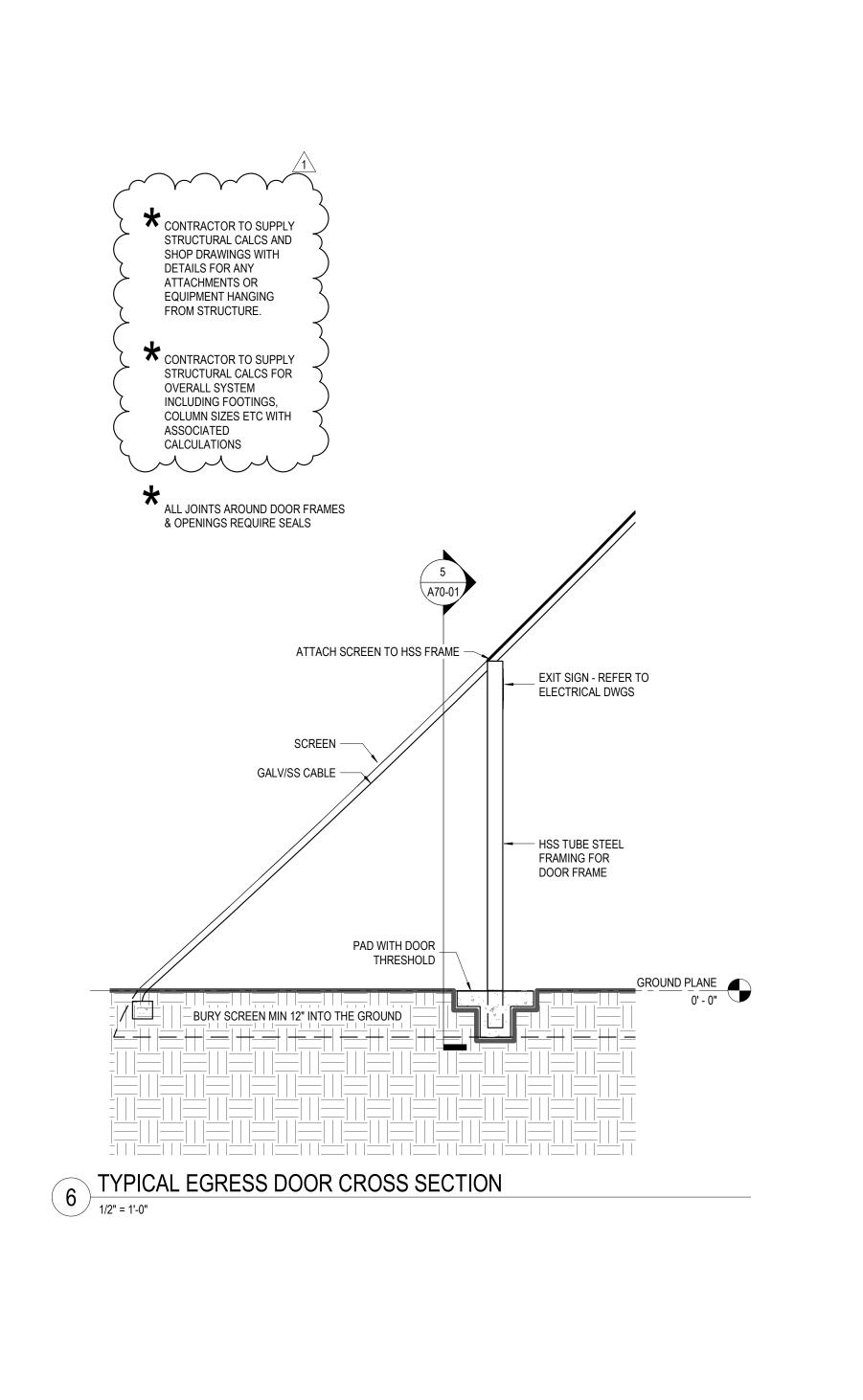


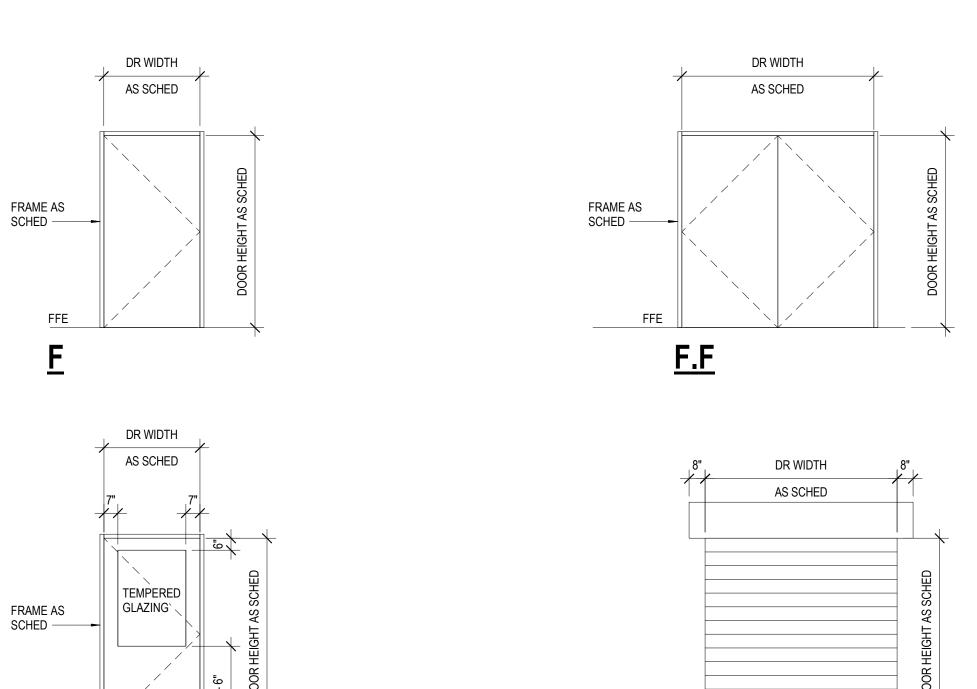




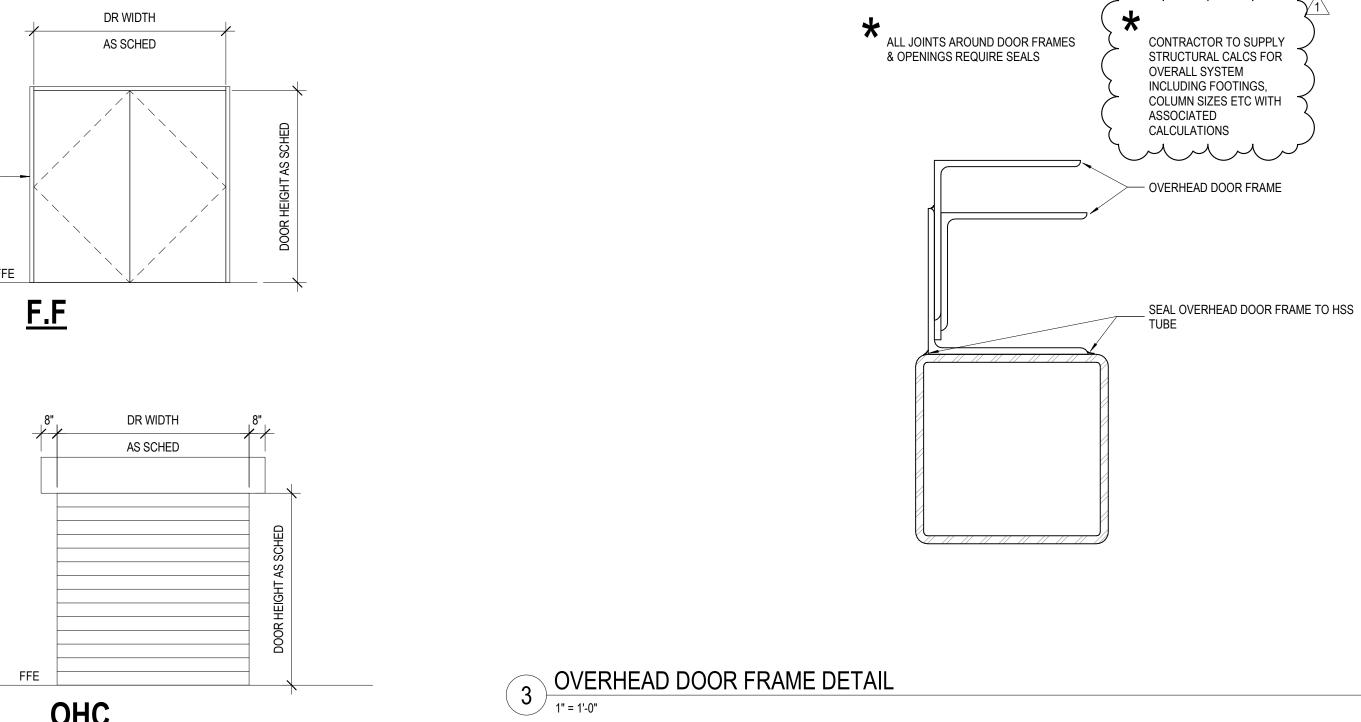


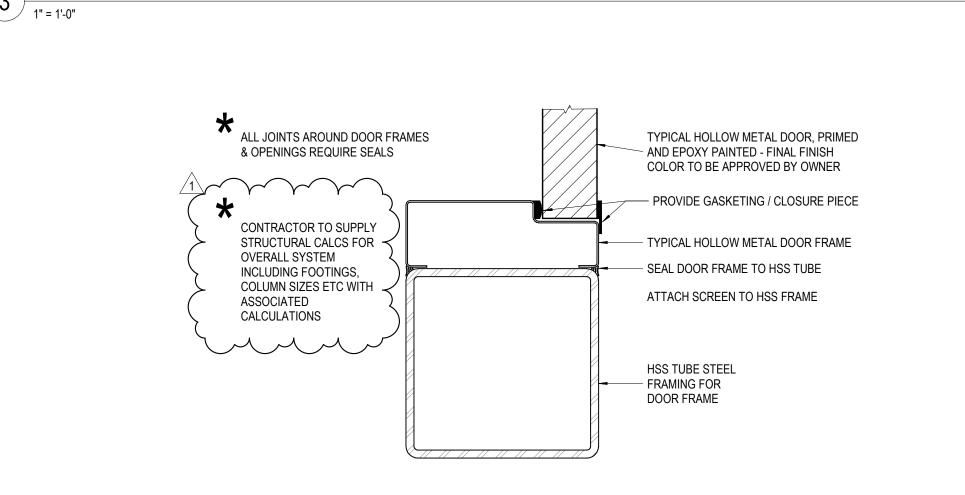
CRB ARCHITECTS-ENGINEERS P.C

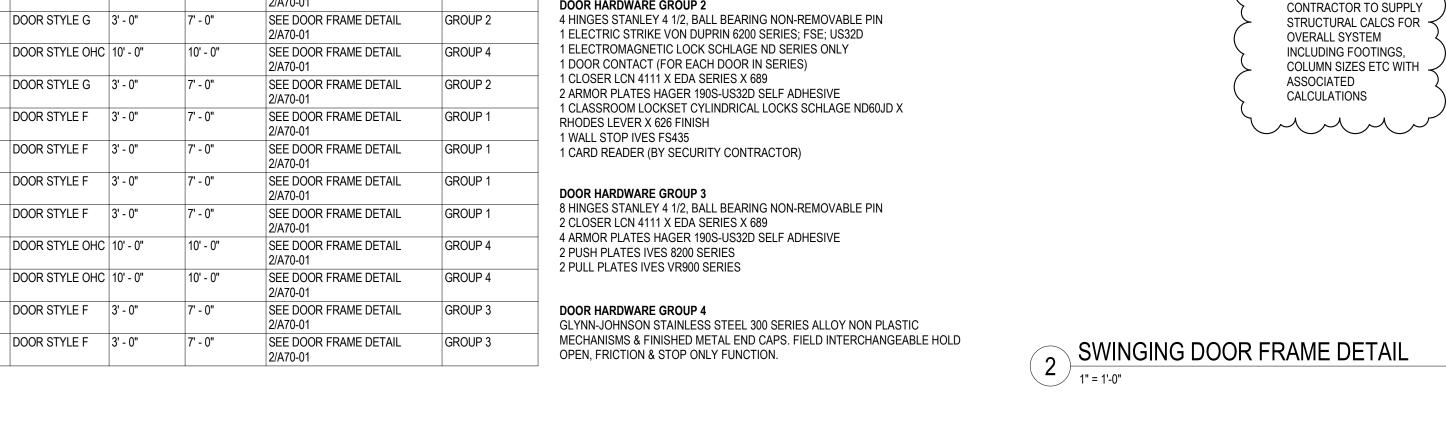


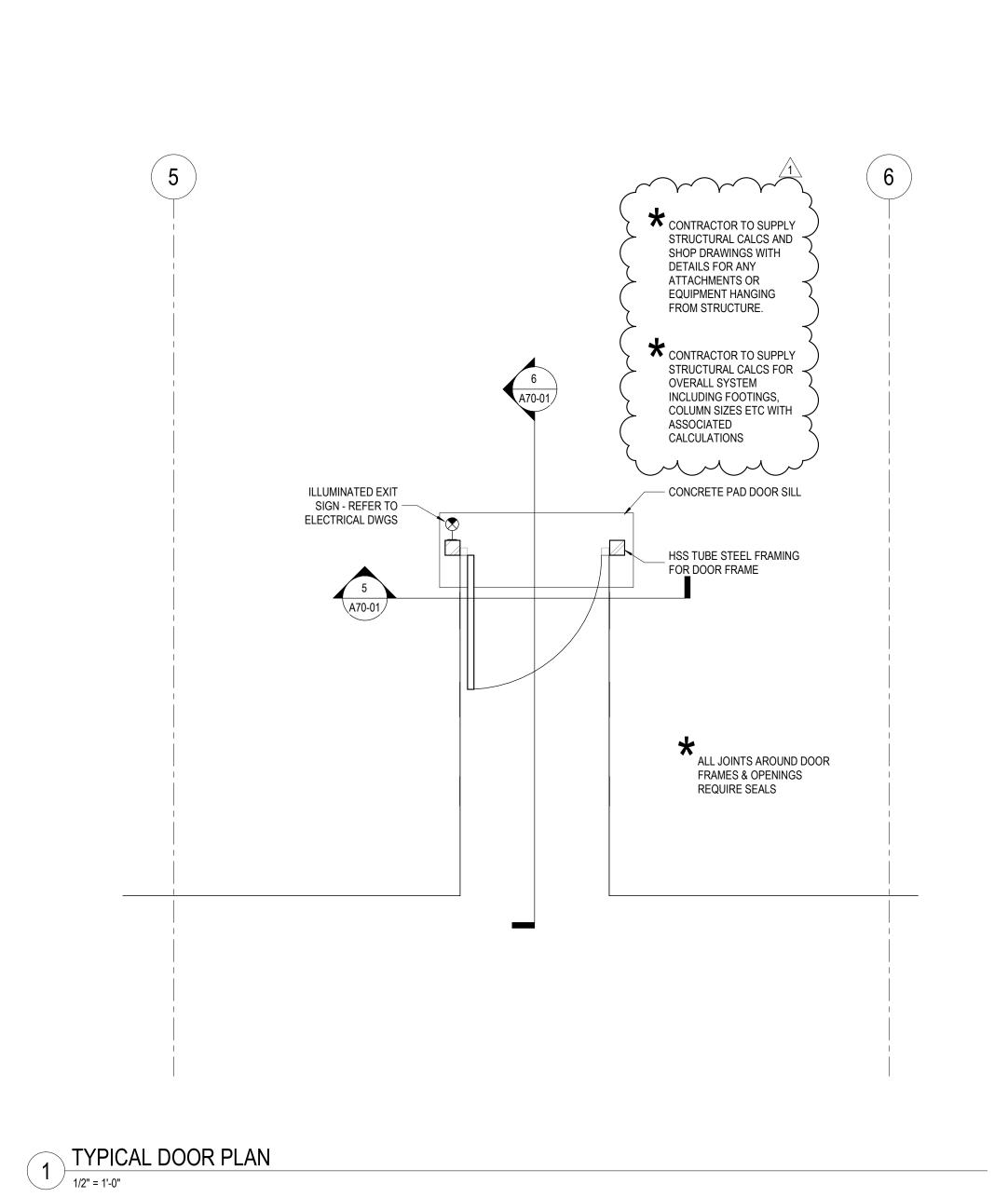


	0.					
	TEMPERED GLAZING`	DOOR HEIGHT AS SCHED				DOOR HEIGHT AS SCHED
		N N	DOOR SCHEDU	LE.		DOOR HARDWARE GROUP 1 4 HINGES STANLEY 4 1/2, BALL BEARING NON-
R ER	DOOR STYLE	DOOR WIDTH	DOOR HEIGHT	DETAIL	HARDWARE GROUP	REMOVABLE PIN PANIC HARDWARE (INSIDE) DOOR TO REMAIN SHUT UNLESS EMERGENCY OCCURS NO HARDWARE ON EXTERIOR - EXIT DOOR ONLY
	DOOR STYLE OHC	10' - 0" 3' - 0"	10' - 0" 7' - 0"	SEE DOOR FRAME DETAIL 2/A70-01	GROUP 4	DOOR HARDWARE GROUP 2
	DOOR STYLE G DOOR STYLE OHC		10' - 0"	SEE DOOR FRAME DETAIL 2/A70-01 SEE DOOR FRAME DETAIL	GROUP 2 GROUP 4	4 HINGES STANLEY 4 1/2, BALL BEARING NON-REMOVABLE PIN 1 ELECTRIC STRIKE VON DUPRIN 6200 SERIES; FSE; US32D 1 ELECTROMAGNETIC LOCK SCHLAGE ND SERIES ONLY 1 DOOR CONTACT (FOR EACH DOOR IN SERIES)











OFFICE OF THE STATE FIRE MARSHAL

APPROVED FIRE AND PANIC ONLY Scott Jackson DCFM

approve any omission or deviation from applicable regulations. Final approval is subject

to field inspection. One set of approved plans shall be available on the project site at all times.

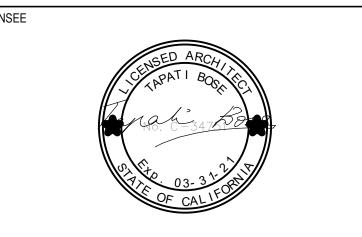
CONSULTING ARCHITECT/ENGINEER

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC. CRB ARCHITECTS-ENGINEERS P.C 3207 GREY HAWK COURT SUITE 150 CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

PROJECT TITLE

FIELD 11C/D CVC SCREEN HOUSE

REV	BY	DATE	DESCRIPTION
0	TB	10JUN20	ISSUED FOR BID
1	TB	06JUL20	100 CD BO COMMENTS
l			
_			
LICE	NSEE		
1			

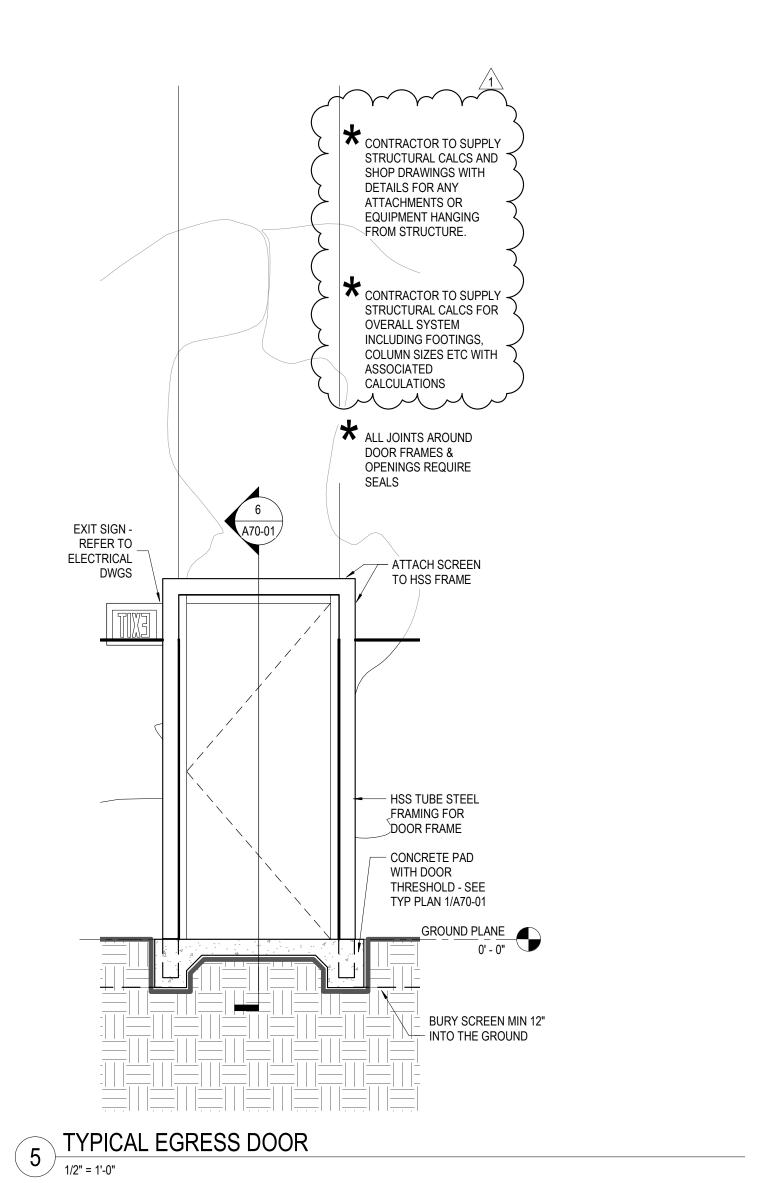


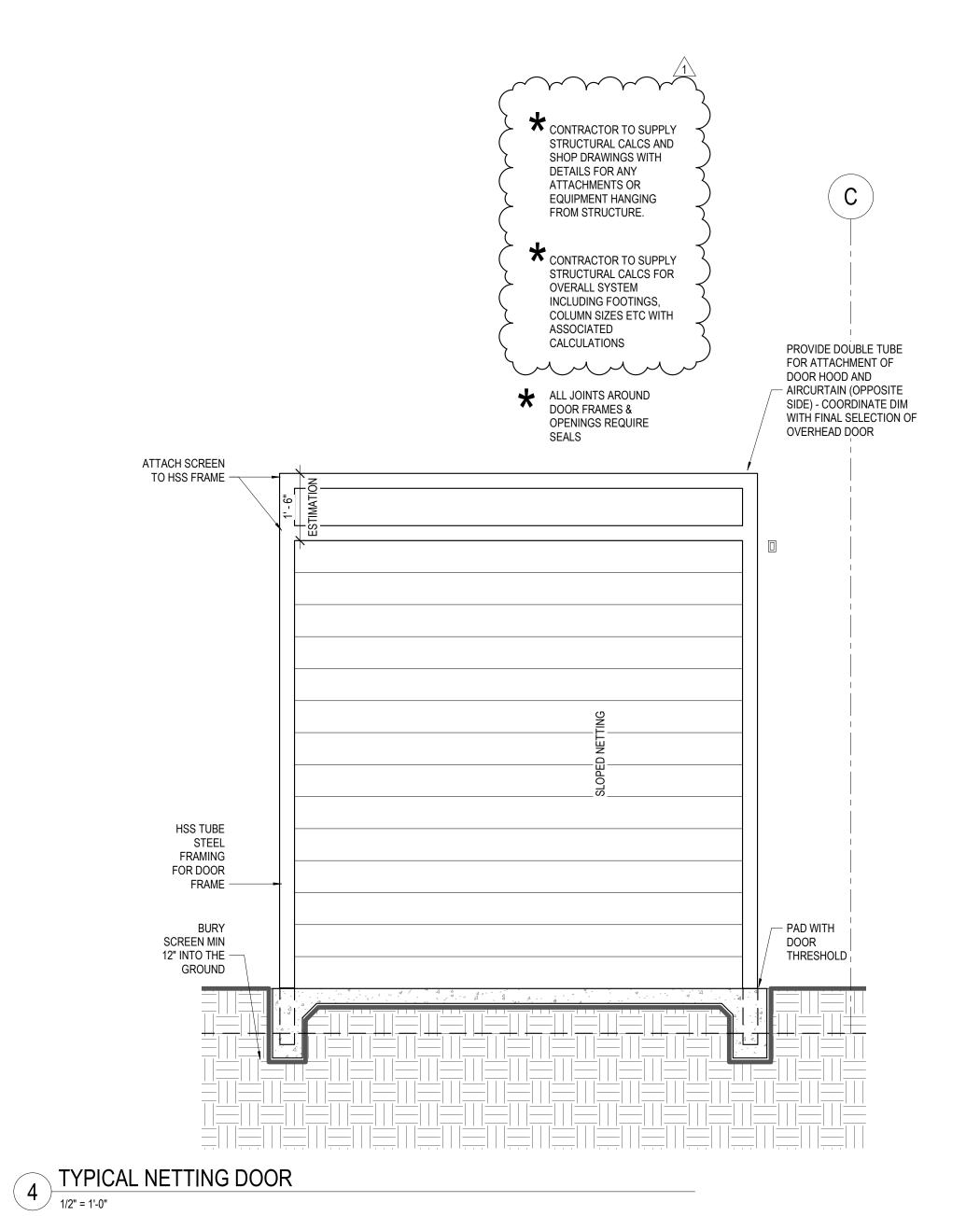
PROJ. NO.	184816.00	DESIGNED BY:	VB
SCALE:	AS INDICATED	CHECKED BY:	ТВ
SHEET SIZE:	30x42	APPROVED BY:	ТВ
DRAWING TIT	LE		

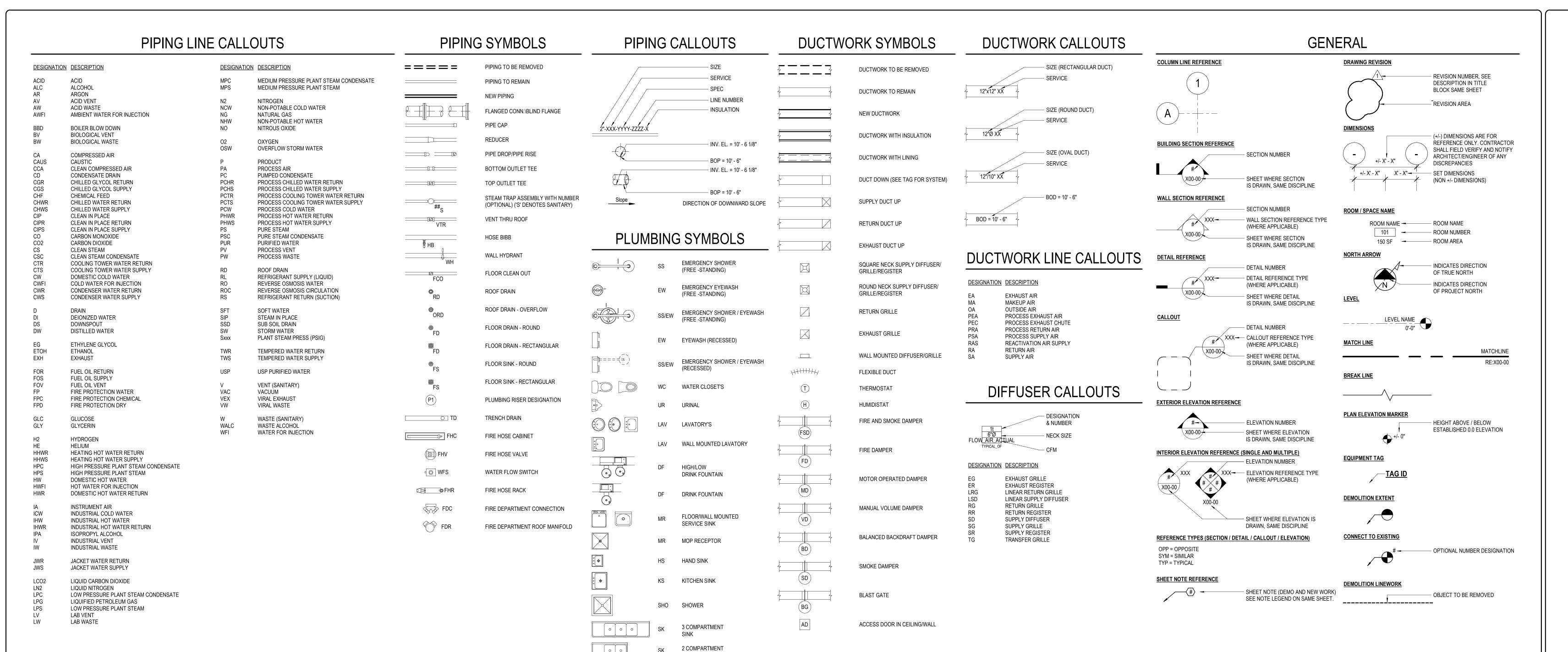
ARCHITECTURAL DOOR DETAILS

DRAWING NUMBER

A70-01









CONSULTING ARCHITECT/ENGINEER



CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

3207 GREY HAWK COURT

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC.

FIELD 11C/D CVC SCREEEN HOUSE

REV	BY	DATE	DESCRIPTION
0	AG	10JUNE2020	ISSUED FOR BID
_			



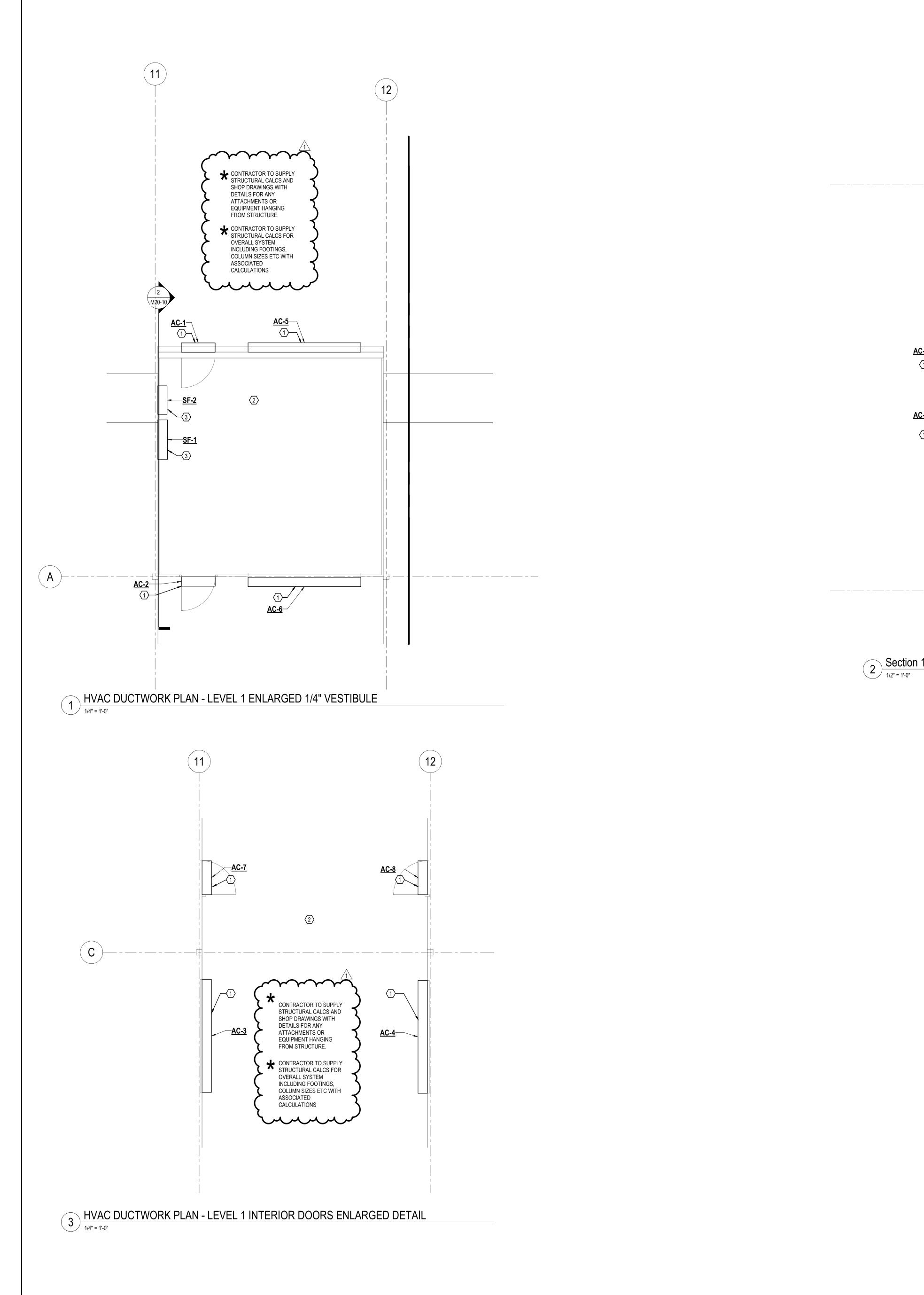


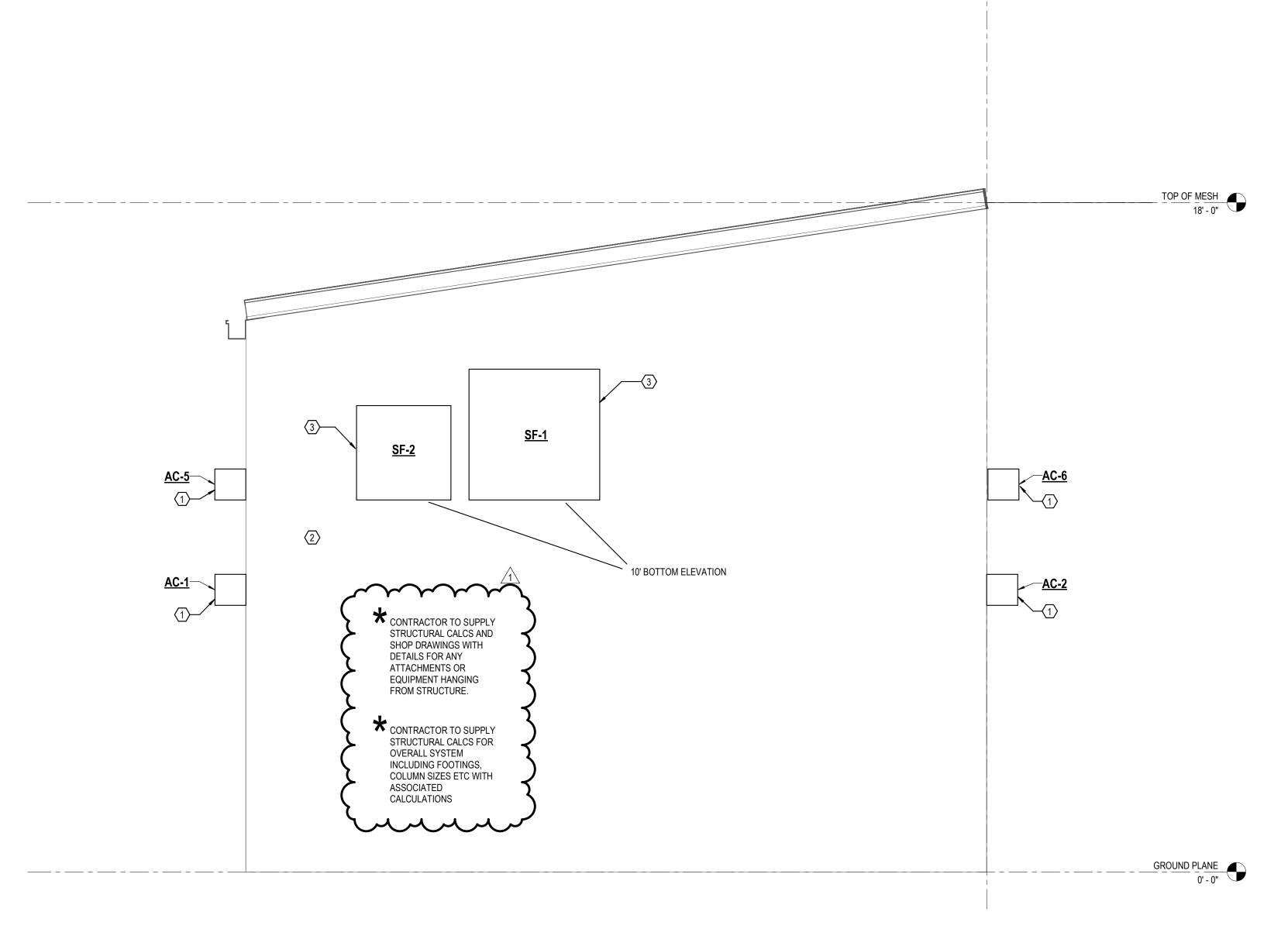
SHEET SIZE: 30x42 APPROVED BY: AG

> MECHANICAL LEAD SHEET

DRAWING NUMBER

M00-00





GENERAL NOTES

1. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

OFFICE OF THE STATE FIRE MARSHAL

APPROVED FIRE AND PANIC ONLY

2. ELEVATIONS NOTED ARE CRUMENT ABOVER INISHED FLOOR.

Sjackson 07/14/2020

3. DO NOT SCALE DRAWING of this plan does not authorize or approve any omission or deviation from

4. COORDINATE DUCTOR TO INSTALLATION. Consider the project site at Mitthes. WALLS WITH ELECTRICAL PANELS, UTILITY STATIONS, PIPING, PLUMBING WASTE &

5. PROVIDE MANUAL BALANCE DAMPER IN BRANCH DUCT TO EACH DIFFUSER / GRILLE LOCATION. DAMPER HANDLES SHALL HAVE EXTENSIONS TO SLEEVE THROUGH INSULATION (WHERE APPLICABLE). MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN DIFFUSER / GRILLE

EXTENSIONS TO SLEEVE THROUGH INSULATION (WHERE APPLICABLE).

MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN DIFFUSER / GRILLE

AND DAMPER (INCLUDING FLEXIBLE DUCT).

6. FIELD VERIFY CONDITIONS PRIOR TO STARTING WORK. NOTIFY

7. HANDLE MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY DISRUPTIONS OF ONGOING BUILDING OPERATIONS. CLEAN PROJECT SITE DEBRIS AT

CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES WITH

THE END OF EACH WORK DAY.

8. VERIFY CONNECTIONS, SIZES, LOCATION, AND PHYSICAL SIZE OF EQUIPMENT WITH APPROVED CERTIFIED SHOP DRAWINGS.

9. FLEX DUCT SHALL NOT EXCEED LENGTH LISTED IN SPECIFICATIONS.

SPECIFICATIONS FOR TYPE.

11. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS. PENETRATIONS THROUGH FIRE-RESISTIVE WALLS, FLOORS, AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED BY

10. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS. REFER TO

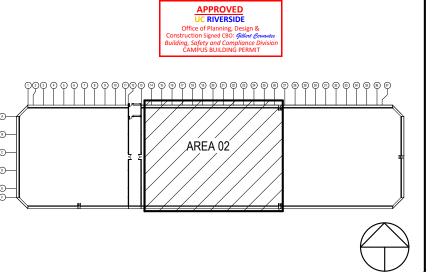
12. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.

THE APPLICABLE CODE.

13. FIELD VERIFY TIE-IN LOCATIONS PRIOR TO FABRICATION OR INSTALLATION.

SHEET NOTES

REFER TO ARCHITECTURAL DETAIL FOR INSTALLATION OF AIR CURTAINS.
 INTERLOCK AIR CURTAINS WITH ASSOCIATED DOOR; SEE ELECTRICAL DRAWINGS FOR DETAILS.
 PROVIDE 50 MESH SCREENS



UNIVERSITY OF CALIFORNIA

CONSULTING ARCHITECT/ENGINEER

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC.

CRB ARCHITECTS-ENGINEERS P.C.

CONSULTING ENGINEER

CRB ARCHITECTS-ENGINEE

3207 GREY HAWK COURT
SUITE 150
CARLSBAD, CA 92010
PHONE: 760-496-3714
FAX: 760-496-3711

PROJECT TITLE

FIELD 11C/D CVC SCREEEN HOUSE

REV	BY	DATE	DESCRIPTION		
0	AG	10JUN2020	ISSUED FOR BID		
1	AG	06JUL2020	100 CD BO COMMENTS		
-					



00	DESIGNED BY:	ED

SCALE: AS INDICATED CHECKED BY: DB
SHEET SIZE: 30x42 APPROVED BY: AG

DRAWING TITLE

MECHANICAL ENLARGED FLOOR PLAN AND SECTIONS

DRAWING NUMBER

M20-10

Reviewed for Code Compliance

	SUPPLY FAN SCHEDULE												
		FAN				MOTOR							
TAG	MANUFACTURER	MODEL NUMBER	MBER AREA SERVED	LOCATION	UNIT TYPE	AIRFLOW [CFM]	E.S.P [IN. W.C.]	RPM	HP	VOLTAGE/CYCLE/PHASE	DRIVE	WEIGHT [LBS]	NOTES
SF-1	GREENHECK	36A10B	VESTIBULE	LEVEL 1	WALL SUPPLY FAN	15000	0.2	875	3.00	240/1/60	BELT	255	1
SF-2	GREENHECK	24A6B	VESTIBULE	LEVEL 1	WALL SUPPLY FAN	4300	0.2	980	3/4	115/1/60	BELT	144	1
NOTES:									•				

	AIR CURTAIN SCHEDULE										
TAG	MANUFACTURER	MODEL NUMBER	TYPE	MOUNTING HEIGHT	FINISH	AIR CURTAIN VOLUME (CFM)	VOLTAGE RATING	MOTOR COUNT	MOTOR HORSEPOWER	NOISE (dBA)	NOTES
AC-1	MARS	LPV236-1U-OB	LOUVER	7'	OBSIDIAN BLACK	900	115/1/60	1	1/6	49	1
AC-2	MARS	LPV236-1U-OB	LOUVER	7'	OBSIDIAN BLACK	900	115/1/60	1	1/6	49	1
AC-3	MARS	STD2120-3U-OB	LOUVER	10'	OBSIDIAN BLACK	4341	115/1/60	3	0.5	71	1
AC-4	MARS	STD2120-3U-OB	LOUVER	10'	OBSIDIAN BLACK	4341	115/1/60	3	0.5	71	1
AC-5	MARS	STD2120-3U-OB	LOUVER	10'	OBSIDIAN BLACK	4341	115/1/60	3	0.5	71	1
AC-6	MARS	STD2120-3U-OB	LOUVER	10'	OBSIDIAN BLACK	4341	115/1/60	3	0.5	71	1
AC-7	MARS	LPV236-1U-OB	LOUVER	7'	OBSIDIAN BLACK	900	115/1/60	1	1/6	49	1
AC-8	MARS	LPV236-1U-OB	LOUVER	7'	OBSIDIAN BLACK	900	115/1/60	1	1/6	49	1

1. REFER TO ARCHITECTURAL DETAIL FOR INSTALLATION GUIDELINES

1. REFER TO ARCHITECTURAL DETAIL FOR INSTALLATION GUIDELINES

2 REFER TO ELECTRICAL DRAWINGS FOR DETAILS.

OFFICE OF THE STATE FIRE MARSHAL

APPROVED FIRE AND PANIC ONLY

SCOTT Jackson DCFM

Sjackson 07/14/2020

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.



CONSULTING ARCHITECT/ENGINEER



SUITE 150 CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC.

FIELD 11C/D CVC SCREEEN HOUSE

REV	BY	DATE	DESCRIPTION
0	AG	10JUNE2020	ISSUED FOR BID



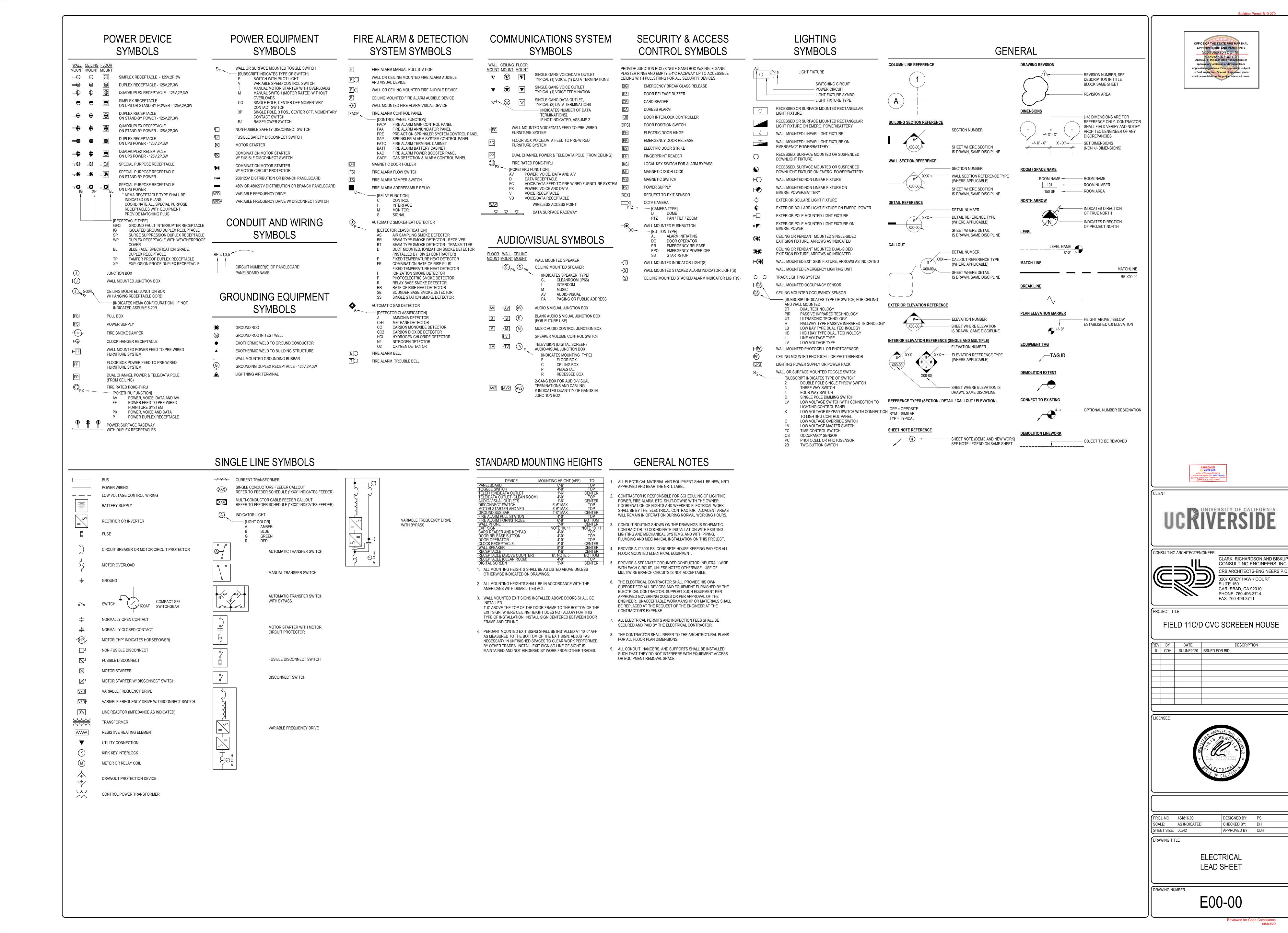
PROJ. NO. 184816.00
SCALE: NONE
SHEET SIZE: 30x42 DESIGNED BY: ED
CHECKED BY: DB
APPROVED BY: AG

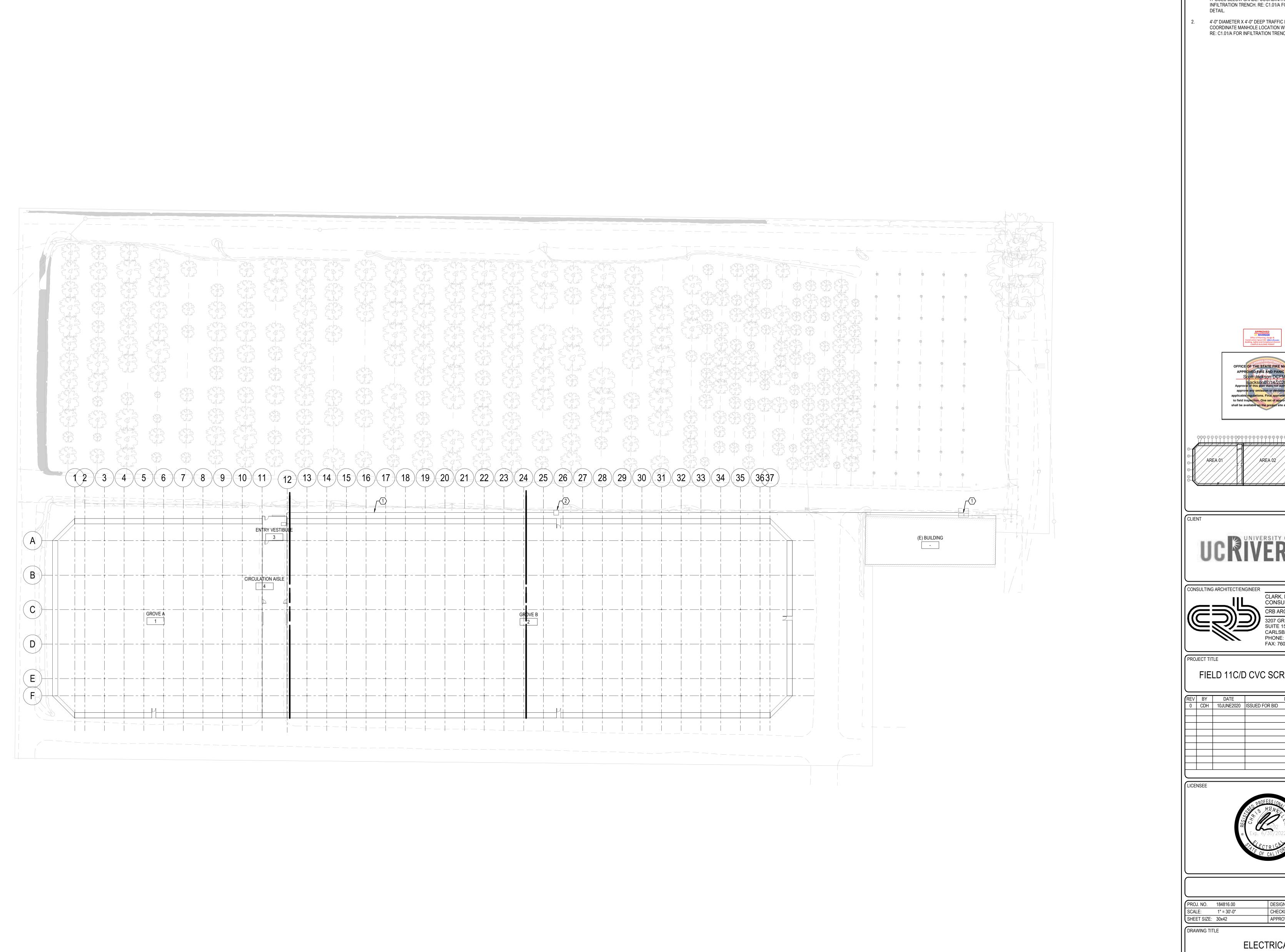
DRAWING TITLE

MECHANICAL SCHEDULES AND DETAILS

DRAWING NUMBER

M30-10



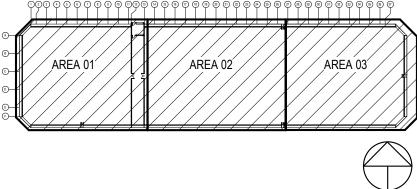


SHEET NOTES

EXISTING GENERAL ELECTRIC 600A, 120/240V, 3 PH, 4 WIRE. PROVIDE A NEW 100A 3P BREAKER IN SPACE. PENETRATE SIDE OF DISTRIBUTION PANEL WITH A 2" RGS CONDUIT DOWN THE 30" BELOW GRADE. TRANSITION TO 2" SCHEDULE 80 PVC CONDUIT AS IT GOES BELOW GRADE. COORDINATE CONDUIT ROUTE WITH INFILTRATION TRENCH. RE: C1.01/A FOR INFILTRATION TRENCH

4'-0" DIAMETER X 4'-0" DEEP TRAFFIC DUTY RATED MANHOLE. COORDINATE MANHOLE LOCATION WITH INFILTRATION TRENCH. RE: C1.01/A FOR INFILTRATION TRENCH DETAIL.





SUITE 150 CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

FIELD 11C/D CVC SCREEEN HOUSE

REV	BY	DATE	DESCRIPTION
0	CDH	10JUNE2020	ISSUED FOR BID



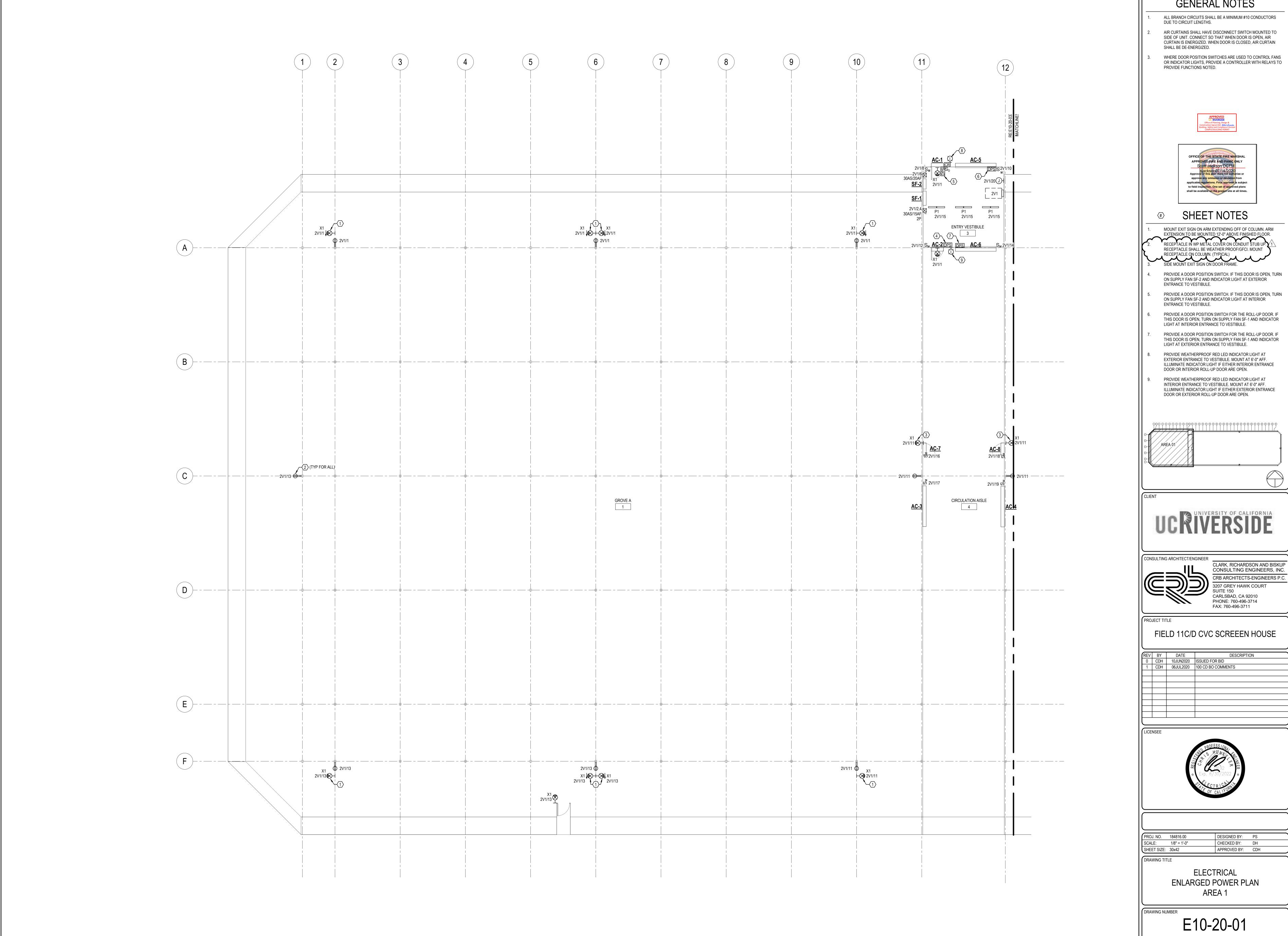
CHECKED BY: DH APPROVED BY: CDH

> ELECTRICAL OVERALL

SITE PLAN

DRAWING NUMBER

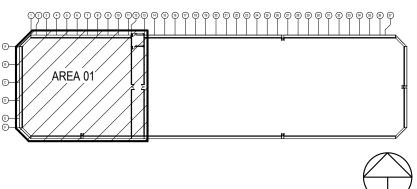
E00-10



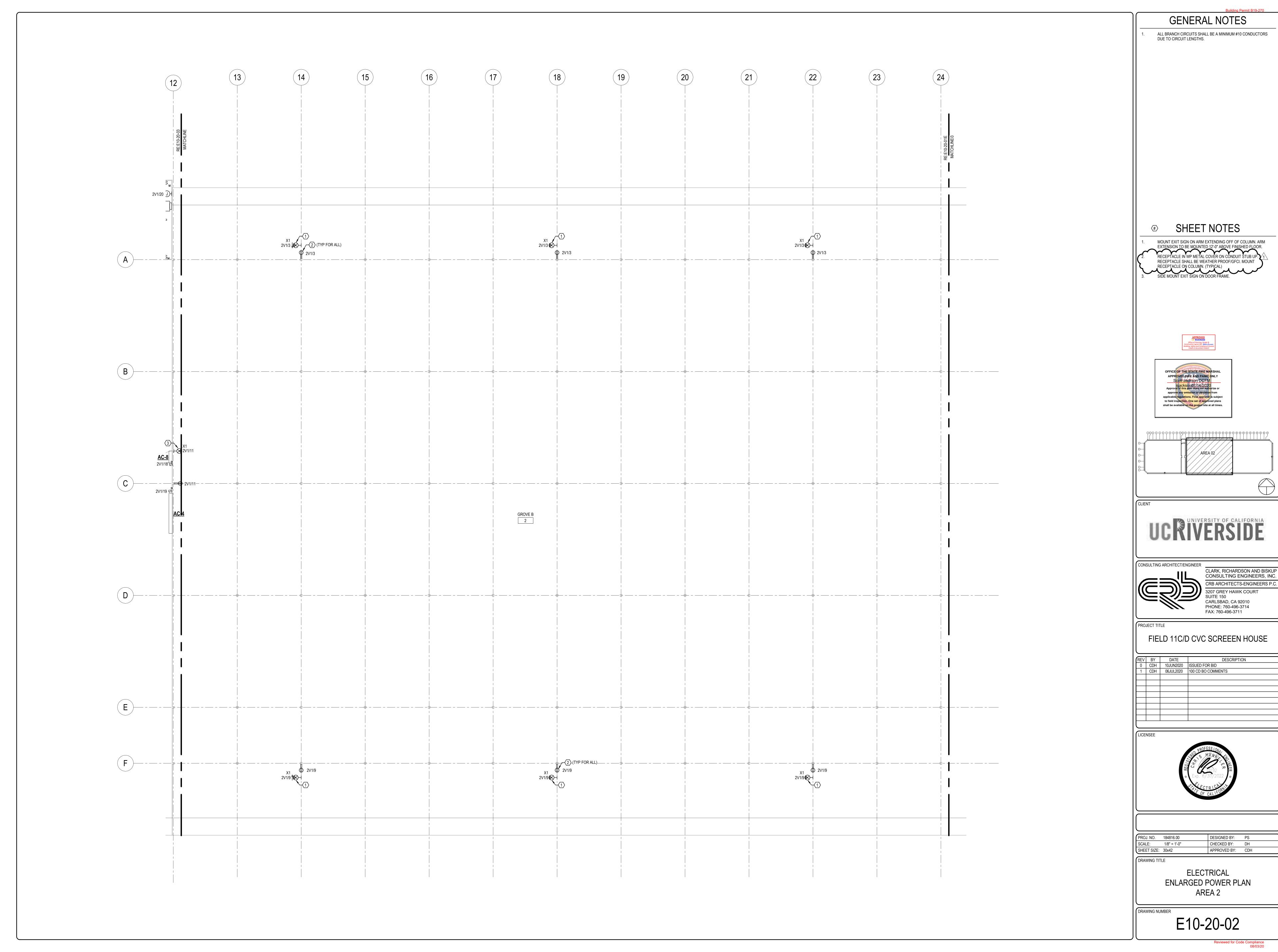
GENERAL NOTES

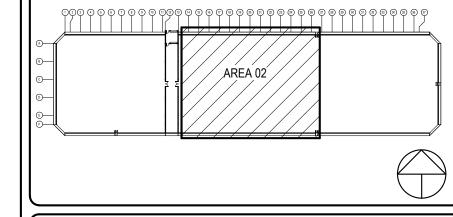
WHERE DOOR POSITION SWITCHES ARE USED TO CONTROL FANS OR INDICATOR LIGHTS, PROVIDE A CONTROLLER WITH RELAYS TO

- THIS DOOR IS OPEN, TURN ON SUPPLY FAN SF-1 AND INDICATOR
- THIS DOOR IS OPEN, TURN ON SUPPLY FAN SF-1 AND INDICATOR

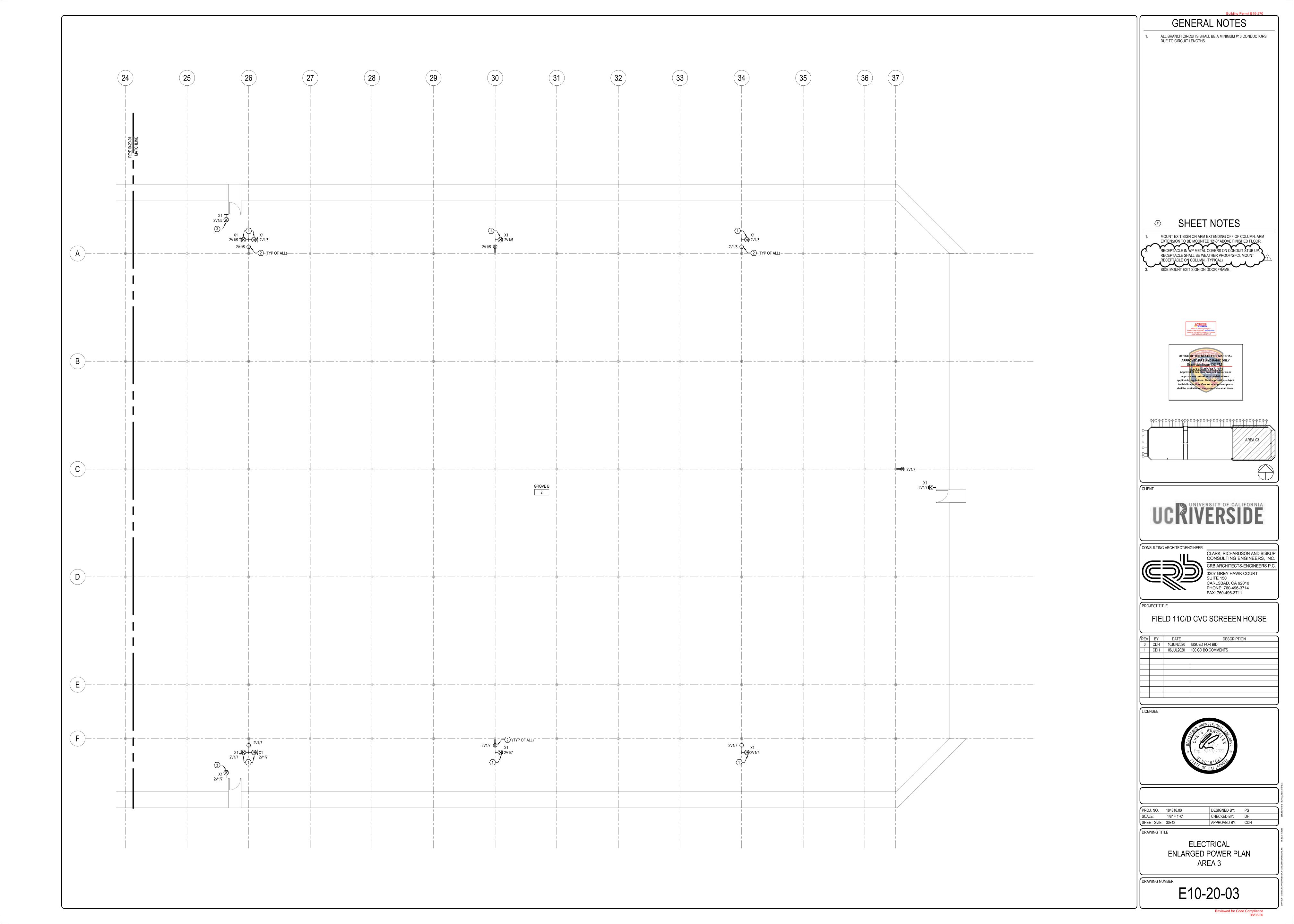


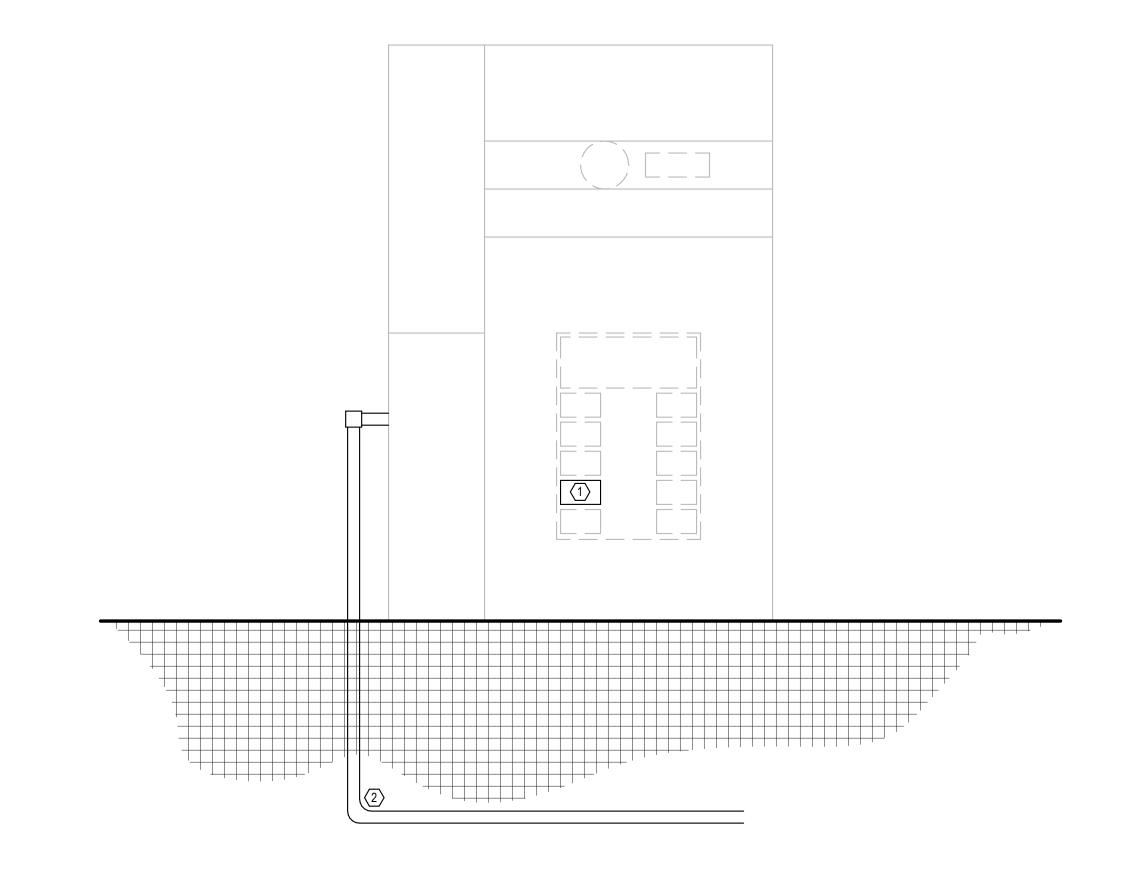
ı	REV	BY	DATE	DESCRIPTION
ı	0	CDH	10JUN2020	ISSUED FOR BID
ı	1	CDH	06JUL2020	100 CD BO COMMENTS
ı				
ı				
ı				
ı				
ı				
ı				
- 1				





1	REV	BY	DATE	DESCRIPTION
ı	0	CDH	10JUN2020	ISSUED FOR BID
ı	1	CDH	06JUL2020	100 CD BO COMMENTS
ı				
ı				
ı				
ı				
ı				
ı				
ı				





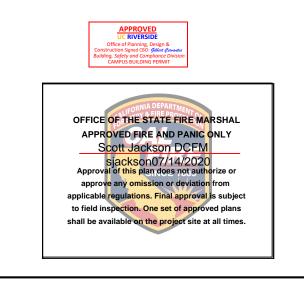
EXISTING MAIN SWITCHBOARD ELEVATION

NTS

SHEET NOTES

EXISTING GENERAL ELECTRIC 600A, 120/240V, 3 PH, 4 WIRE. PROVIDE A NEW 100A 3P BREAKER IN SPACE. PENETRATE SIDE OF DISTRIBUTION PANEL WITH A 2" RGS CONDUIT DOWN THE 30" BELOW GRADE. TRANSITION TO 2" SCHEDULE 80 PVC CONDUIT AS IT GOES BELOW GRADE.

4#1,1#6 CU GND, 2" SCHEDULE 40 PVC CONDUIT 30" BELOW GRADE.







CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC. CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

FIELD 11C/D CVC SCREEEN HOUSE

	REV	BY	DATE	DESCRIPTION
	0	CDH	10JUNE2020	ISSUED FOR BID
- 1			-	

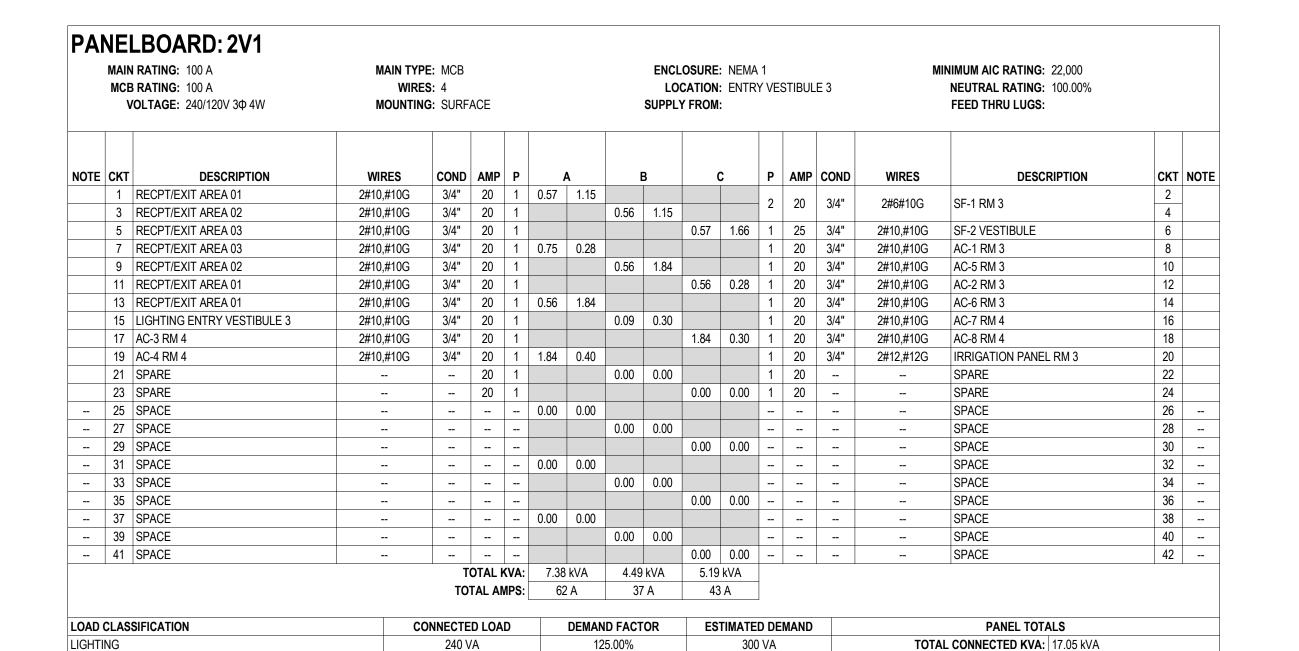


SCALE: AS INDICATED
SHEET SIZE: 30x42 CHECKED BY: DH
APPROVED BY: CDH

ELECTRICAL **DETAILS**

DRAWING NUMBER

E60-00



105.40%

114.55%

100.00%

100.00%

8953 VA

4536 VA

3960 VA

400 VA

TOTAL ESTIMATED DEMAND KVA: 18.15 kVA

TOTAL CONNECTED CURRENT: 41 A

TOTAL ESTIMATED DEMAND CURRENT: 44 A

8494 VA

3960 VA

3960 VA

400 VA

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	TYPE	LENS/OPTICS	MOUNTING	MANUFACTURER	CATALOG NUMBER	INPUT WATTS	VOLTAGE	REMARKS
P1	4' LINEAR LED PENDANT LIGHT FIXTURE, 10,000 LUMENS, 0-10V DIMMING, 80CRI	LED	ACRYLIC	PENDANT	LITHONIA LIGHTING	FEM L48 10000LM IMAFL WD MVOLD	30 W	120 V	
						GZ10 40K 80CRI			
X1	LED EXIT SIGN WITH RED LETTERING. UNIVERSAL MOUNTING	LED	RED LED	UNIVERSAL MOUNT	LITHONIA LIGHTING	WLTC 1 R SD	5 W	120 V	

MOTORS

RECEPTACLE

GENERAL - EQUIPMENT





CONSULTING ARCHITECT/ENGINEER



CARLSBAD, CA 92010 PHONE: 760-496-3714 FAX: 760-496-3711

CLARK, RICHARDSON AND BISKUP CONSULTING ENGINEERS, INC.

FIELD 11C/D CVC SCREEEN HOUSE

ı				
l	REV	BY	DATE	DESCRIPTION
l	0	CDH	10JUNE2020	ISSUED FOR BID
ı				
ı				
ı				
ı				
ı				
ı				
ı				
۱				
ı				



SHEET SIZE: 30x42 APPROVED BY: CDH

ELECTRICAL PANEL SCHEDULES

E70-00



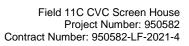
SPECIFICATIONS

TABLE OF CONTENTS

Division 01 – General Requirements

Initial Issue	Revision	Section #	<u>Title</u>
		01 1100	Summary of Work
		01 1400	Work Restrictions
		01 2300	Alternates
		01 2500	Product Options, Requirements & Substitution Procedures
		01 2613	Requests for Information & Instructions (RFI) Procedures
		01 3113	Coordination
		01 3119	Project Meetings
		01 3200	Document Control
		01 3216	Schedules
		01 3280	Electronic Data Transfer
		01 3300	Submittals
		01 3300	Submittals Contractor Certification
		01 3300	Submittals Subcontractor Certification
		01 3300	Submittals Schedule
		01 3329.08	Buy Clean California Reporting
		01 3520	Design Assist Procedures
		01 3543	Environmental Procedures
		01 4100	Regulatory Requirements
		01 4200	References
		01 4300	Inspection of Work
		01 4339	Mockups
		01 4500	Quality Control
		01 5500	Vehicular Access and Parking
		01 5639	Tree and Plant Protection
		01 5700	Temporary Controls

UCR 2020-01-06 LF Specifications Checklist





Initial Issue	Revision	Section	# <u>Title</u>
		01 6000	Product Requirements
		01 7123	Field Engineering
		01 7400	Cleaning and Waste Management
		01 7700	Contract Closeout
		01 7839	As-Built Documents
		01 9113	General Commissioning Requirements

END OF SPECIFICATIONS TABLE OF CONTENTS



SECTION 01 1100 SUMMARY OF WORK

PART 1 - GENERAL

1.1. SUMMARY

- A. Section includes:
 - 1. Work Covered by Contract Documents
 - 2. Work Sequence
 - 3. Work by University
 - 4. University Furnished Products
- B. In case any Sections contain conflicting requirements, refer to General Conditions, Paragraph 4.1.8.

1.2. WORK COVERED BY CONTRACT DOCUMENTS

- A. The University of California, Riverside (UCR) intends to procure the services of a General Contractor (Contractor) to construct 2-acre HDPE screen mesh structure approximately eighteen (18) feet in height, pole and cable construction with minor site grading and drainage, underground electrical from existing overhead service and meter with distribution panel and various circuits, point of connection irrigation and controls, positively pressured vestibule structure with roll-up doors and man-doors. Facility is required to meet USDA/APHIS exclusionary standards for Asian Citrus Psyllid. Structural Engineering and Designated Campus Fire Marshal submittals are required.
- B. The Contract Time to complete the Work of this Contract is specified in the Supplemental Instructions to Bidders.
- C. Project Location: 900 University Avenue, Riverside, CA. 92521
- D. The University has specified that the requirements and procedures for compliance with certain U.S. Green Building Council's (USGBC) LEED (Leadership in Energy and Environment Design) New Construction (NC) Version 3 (v3) prerequisites and credits will be used to target the Project to obtain the goal of LEED Gold certification. See Section 01 8113 "Sustainability Design Requirements" for additional information.
- 1.3. WORK SEQUENCE NOT USED
- 1.4. WORK BY UNIVERSITY NOT USED
- 1.5. UNIVERSITY FURNISHED PRODUCTS NOT USED

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4



SECTION 01 1400 WORK RESTRICTIONS

PART 1 - GENERAL

1.1. SUMMARY

A. Section includes:

- 1. Access to Site
- 2. Coordination with Occupants
- 3. Use of Site
- 4. Scheduling of Work and Work Hours
- 5. Neighbor Complaint Hotline
- 6. Site Decorum

1.2. ACCESS TO SITE

A. Special Requirements

- 1. Existing Site Conditions and Restrictions:
 - Maintain access and code required exiting to and from surrounding buildings during construction.
- 2. Contractor shall be responsible for safely securing the work areas, with at a minimum, trench plates, fencing, signage, safety lighting, traffic and pedestrian coordinators.
- 3. Trench plates shall be provided and safely secured at all roadway, parking lots, and walkways.
- 4. Trenches shall be protected from vehicles by utilizing trench plates, and from pedestrians by utilizing fully installed galvanized fencing. Excavations and holes shall be protected by utilizing fully installed galvanized fencing, safety lighting, and other methods to safely secure the site. Establishment of the work area in any space requiring the University's vacating shall not commence before notification to University's Representative. Refer to Section 01 1400 CONTRACTOR'S USE OF THE PROJECT SITE, Notifications.
- 5. Individual work areas shall not be established until Contractor has labor, materials and equipment ready to commence and complete the Work in that area.
- 6. Work shall not commence in any area until barriers and other protections are in place.

B. Use of Public Thoroughfares and University Roads

- Contractor shall make its own investigation of the condition of available public thoroughfares and University roads, and of the clearances, restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress at the Project site.
- 2. Where materials are transported in the prosecution of the Work, do not load vehicles beyond the capacity recommended by manufacturer of the vehicles or prescribed by any applicable state or local law or regulation.
- 3. Use only established roads on the campus; provided, however, that such temporary haul roads as may be required in the work shall be constructed and maintained by Contractor, subject to the approval of University's Representative. Refer to Section 01 3540 Environmental Mitigation for description of the approved haul route to and from the campus.

Work Restrictions UCR 2013-02-05 LF 01 1400-1

Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4



- 4. Provide protection against damage whenever it is necessary to cross existing sidewalks, curbs, and gutters in entering upon the University roads and public thoroughfares. Repair and make good immediately at the expense of Contractor all damages thereto, including damage to existing utilities and paving, arising from the operations under the Contract.
- 5. Truck staging is not allowed on campus or on any residential street surrounding the campus.
- C. See also Section 01 5500, Vehicular Access and Parking.

1.3. COORDINATION WITH OCCUPANTS

- A. The University reserves the right to occupy and to place and install equipment in completed areas of the Work prior to Notice of Completion, provided such occupancy does not interfere with completion of the Work and subject to the General Conditions. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - Partial occupancy of the Work may occur upon University's approval, in which case the University's Representative will prepare a Certificate of Beneficial Occupancy for each specific portion of the Work to be occupied prior to Final Completion of the entire Work.
 - 2. Refer to Article 9.6 of the General Conditions.

1.4. USE OF SITE

- A. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
 - Driveways and Entrances: Keep driveways and entrances serving adjacent buildings clear and available to the University, and its employees, students, faculty, visitors, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for use of these areas.
 - 2. Contractor's use of the Project site for the work, staging, deliveries, and storage is restricted to the project limits on the Drawings, or as directed by the University's Representative.
 - All material for construction operations shall be brought in and the work conducted so as to avoid any interference with existing University facilities or their normal operations.
 - 4. Noise from job equipment shall be kept to a minimum by use of adequate mufflers and other appropriate means.
 - 5. Delivery of Materials: Arrange for delivery of materials and equipment to minimize length of on-site storage prior to installation. Delivery route shall be from South Campus Circle Drive to Big Springs Road to the project site, or as designated by the University's Representative.
 - 6. The Contractor shall take appropriate steps throughout the term of the project to prevent airborne dust due to work under this contract. Water shall be applied wherever practical to settle and hold dust to a minimum, particularly during excavation and moving of materials. No chemical palliatives shall be used.

Field 11C CVC Screen House Project Number: 950582 Contract Number: 950582-LF-2021-4



1.5. SCHEDULING OF WORK AND WORK HOURS

A. Work outside of regular work hours, **7:00 a.m. to 3:30 p.m.,** "overtime", required to accomplish work of this contract, such as utility shutdowns, shall be included in the contract sum.

OR:

- A. Restrict Construction Hours: All contractors, and overseen by the General Contractor, shall ensure that all construction contracts will limit exterior construction activities to occurring between 7:00 a.m. and 7:00 p.m. Monday through Friday, and 8 a.m. and 5 p.m. on Saturday. Construction will not be allowed on Sunday or federal holidays.
- B. Overtime work requests must be submitted to the University's Representative three working days before the work is to commence.
 - 1. Acceptable overtime hours are no earlier than 7:00 a.m. and no later than 7:00 p.m., Monday through Friday; and from 8:00 a.m. to 5:00 p.m. on Saturday. Work will not be allowed on Sunday and Holidays.
 - 2. Work at other times may be permitted if it takes place within the enclosed building and the University's Representative determines that it is unlikely to affect University personnel, students, operations and the surrounding neighborhood.
 - 3. Additional overtime operating hours may be approved at the University's Representative sole discretion and only without change to the contract sum.
 - 4. Contractor shall pay all the inspectors (in-house inspectors and University's testing laboratory inspectors) and University's Representative's costs if the overtime request is approved by University's Representative.

1.6. NEIGHBOR COMPLAINT HOTLINE

- A. Contractor to provide a phone number monitored 24 hours a day for the public to use to lodge complaints about construction activities that may harm or degrade their quality of life. Refer to Section 01 5000 "Construction Controls and Temporary Facilities" for more detailed specifications.
- B. Neighbor Complaint Hotline Phone Number: Contractor shall provide signage described elsewhere in this section with the telephone number for the off-campus neighbors to use to notify the contractor and University about construction related issues affecting their persons and properties such as, but not limited to excessive noise, dust and construction vehicle traffic along Valencia Hill Drive which is not allowed under any circumstances.
 - 1. The contractor shall contact a security service which shall provide an answering service for any calls, 24 hours a day and relay the call to a list of designated construction personnel on site for response. The contactor can contact Knight Security at (760) 745-3604 which provided service for the Phase 1 portion of the project for terms and conditions but is not obligated to use this firm and can choose to any service of a similar type.



1.7. SITE DECORUM

- A. Contractor shall control the conduct of its employees (including subcontractor's employees) so as to prevent unwanted interaction initiated by Contractor's employees with University of California Riverside (UCR) students, UCR staff, UCR Faculty or other individuals (except those associated with the Project), adjacent to the Project site. Without limitation, unwanted interaction by Contractor employees would include whistling at or initiating conversations with passersby. In the event that any Contractor employee initiates such unwanted interaction, or utilized profanity, Contractor shall, either upon request of University's Representative or on its own initiative, replace said employee with another of equivalent technical skill, at no additional cost to the University. No radios, other than two-way communication type, will be allowed on the Project site. No smoking is allowed in any University Building.
- B. Contractor shall control the conduct of its employees (including subcontractor's employees) to prevent unwanted interaction initiated by Contractor's employees with UCR students, staff, Faculty or other individuals, adjacent to the Project site. Unwanted interaction by Contractor employees includes whistling at, or initiating conversations with, passersby. If any contractor employee initiates such unwanted interaction, or utilizes profanity, Contractor shall, upon request of University's Representative or on its own initiative, replace said employee with another of equivalent technical skill, at no additional cost to University. No radios, other than two-way communication type, will be allowed on the Project site. No smoking is allowed in any existing University Building or University Building under Construction.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 2300 ALTERNATES

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes:
 - 1. Procedures
 - 2. Alternate Descriptions
- B. This Section identifies each Alternate and describes basic changes to the Work only when that Alternate is made a part of the Work by specific provision in the Agreement.
- C. Definition: Refer to the Instructions to Bidders, 1.2 for the term "Alternate."

1.2. PROCEDURES

- A. The Lump Sum Base Bid and Alternates shall include the costs of all supporting elements required, so that the combination of the Lump Sum Base Bid and any Alternates shall be complete. The scope of Work for all Alternates shall be in accordance with applicable Drawings and Specifications.
- B. Except as otherwise specifically provided by University, the Work described in Alternates shall be completed with no increase in Contract Time.
- C. This Section includes only the non-technical descriptions of the Alternates. Refer to the Drawings page A11-20-00 for specific Specifications for technical descriptions of the Alternates.
- D. Coordinate related Work and modify surrounding Work as required to properly and completely integrate the Alternates into the Work.

1.3. ALTERNATE DESCRIPTIONS

A. Alternate No. 1: Add, Rows of Trees

Add additional 19 rows of trees from column line 27 to 37

No extension of the Contract Time will be granted if this Alternate is accepted.

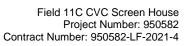
University reserves the right to accept this Alternate within 10 calendar days after the commencement date per the Notice to Proceed.

PART 2 – PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

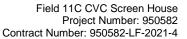
UCR 2013-02-26 LF Alternates 01 2300-1





MATERIAL/PRODUCT SUBSTITUTION REQUEST FORM

Date: Material/Product Substitution Request No.								
TO:	Un	iversity's Representative	FROM:					
A. W	e her	eby submit for your consideration the follo	wing product instead of the specified item:					
	1.	•						
	2. Specified Item:							
	3.	Proposed Substitution: (Mfg., Type, Mode	el, etc. Attach a separate sheet if necessary.)					
B. Co	omple	ete all of the following:						
	 Does this Substitution offer The Regents a cost credit (including costs for changes by other trades)? Yes No If "Yes," state how much and attach an itemized breakdown of all costs: \$ 							
	2. Does this Substitution offer earlier delivery or less construction time? ☐ Yes ☐ No If "Yes," state the effect on the Contract Time: (Attach a separate sheet if necessary.)							
	 Does this substitution affect any dimensions, layout, or details of other trades as shown on the drawings? ☐ Yes ☐ No If "Yes," explain in the space below: (Attach a separate sheet if necessary.) 							
	Describe the specific differences between this Substitution and the specified item in the space below: (Attach a separate sheet if necessary.)							
C. At	tach	the following items as applicable: (Check if	attached.)					
	1. 2. 3. 4. 5. 6. 7.	Manufacturer's technical data. Laboratory test or performance results. Drawings and wiring diagrams of the proportion of changes requestions. Manufacturer's guarantee and maintenant Documentation of code compliance for all	uired by other trades.					
	D. The undersigned agrees to pay for all additional review, design, testing, changes in the contract documents, and construction as a result of the acceptance of this substitution, at no cost to The Regents.							
E. Su	E. Submitted by Contractor: (Signed)							
	(Printed Name & Title)							
UNIVE	UNIVERSITY'S REPRESENTATIVE'S USE ONLY: □ Accepted □ Revise and Resubmit □ Rejected □ See attachment dated							





LEFT BLANK INTENTIONALLY



SECTION 01 2500 PRODUCT OPTIONS AND SUBSTITUTIONS

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes:
 - 1. General Provisions
 - 2. Special Requirements for Other Than First-Named Product, Material or Equipment
 - 3. Special Requirements for Substitutions
 - 4. Material/Product Substitution Request Form

1.2. GENERAL PROVISIONS

- A. This subsection includes the general provisions regarding specification of products, material and equipment by brand or trade name.
- B. Products, material or equipment specified by both brand or trade name and model number are approved for use, provided that Contractor complies with all Contract requirements. Specification of a product, material or equipment by brand or trade name and model number is not a representation or warranty that the product, material or equipment can be used without modification, to meet the requirements of the plans and specifications; Contractor shall, at its sole cost, modify such products, material, or equipment so that they comply with all requirements of the plans and specifications.
- C. The first-named product, material or equipment specified by brand or trade name and model number is the basis for the Project design and the use of any item other than the first-named one may require modifications of that design. If Contractor uses any product, material or equipment other than the first-named one, Contractor shall, at its sole cost:
 - 1. Make all revisions and modifications to the design and construction of the Work necessitated by the use of the product, material or equipment.
 - 2. Be responsible for all costs of any changes resulting from the use of the product, material or equipment including without limitation, costs or changes which affect other parts of the Work, the work of Separate Contractors, or any other property or operations of the University.
- D. When a product, material or equipment specified by brand or trade name is followed by the words "or equal," a substitution may be permitted if the substitution is equal to or superior to the first-named product, material or equipment in quality, utility and appearance and if the substitution complies with all other requirements of the plans and specifications.
- E. A product, material or equipment specified by brand or trade name followed by the words "or equal, no known equal," signifies that University does not have sufficient knowledge to specify a product, material or equipment, other than the one specified by brand or trade name, that is suitable for use on the Project. The use of the words "no known equal" is not intended to discourage substitution requests in accordance with the requirements specified herein.
- F. When catalog numbers and specific brands or trade names not followed by the designation "or equal" are used in conjunction with a product, material or equipment required by the specifications, **substitutions will NOT be allowed** and the named product, material or equipment must be used.



G. Specification of a product, material or equipment by brand or trade name and model number is not a representation or warranty that the product, material or equipment is available; Contractor should confirm, prior to submitting its Bid, the availability of any product, material or equipment specified by brand or trade name and model number.

1.3. SPECIAL REQUIREMENTS FOR OTHER THAN FIRST-NAMED PRODUCT, MATERIAL OR EQUIPMENT

- A. This subsection includes special requirements for named products, material and equipment, other than the first-named product, material or equipment, specified by both brand or trade name and model number.
- B. In addition to complying with all other submittal requirements of the Contract, **submit** within <u>70</u> days after the date of commencement specified in the Notice to Proceed, for review and approval by the University's Representative, Contractor prepared specifications and drawings, including design and engineering calculations, prepared by an appropriate licensed professional, depicting all revisions and modifications to the design and construction of the Work necessitated by the use of the product, material or equipment. If no revisions or modifications are necessary, submit within <u>70</u> days after the date of commencement specified in the Notice to Proceed, a written representation that no revisions or modifications to the design or construction of the Work are necessitated by the use of the product, material or equipment. Contractor shall utilize the first-named product, material or equipment if Contractor fails to make the appropriate required submittal pursuant to this paragraph within the 70-day period.
- C. A product, material or equipment, other than the first-named product, material or equipment, specified by both brand or trade name and model number may be used if no revisions or modifications to the design or construction of the Work are necessitated by the use of the product, material or equipment. If such revisions or modifications are necessary, the product, material or equipment may be used only if the revisions or modifications are approved in writing by the University's Representative. Contractor has the burden of demonstrating, through the procedures specified herein, that any such revisions or modifications will not be detrimental to the quality, utility or appearance of the Project or any portion of the Project. The University's Representative may refuse to approve any such proposed revisions or modifications where, in the reasonable opinion of the University's Representative, Contractor has failed to demonstrate, through the procedures specified herein, that the revisions or modifications are not detrimental to the quality, utility or appearance of the Project or any portion of the Project.

1.4. SPECIAL REQUIREMENTS FOR SUBSTITUTIONS

- A. In addition to complying with all other submittal requirements of the Contract, submit written data demonstrating that the proposed substitution is equal to or superior to the first-named product, material or equipment in quality, utility, appearance, environmental performance criteria, and otherwise complies with all requirements of the plans and specifications, including:
 - 1. Complete technical data including drawings, performance specifications, samples, and test reports of the article proposed for substitution.
 - 2. Statement by Contractor that the proposed substitution is in full compliance with the requirements of the Contract Documents and Applicable Code Requirements.
 - 3. List of Subcontractors, if any, that may be affected by the substitution.
 - 4. Contractor prepared specifications and drawings, including design and engineering calculations, prepared by an appropriately licensed professional, depicting all revisions and modifications to the design and construction of the Work necessitated by the use of the substitution. If no revisions or modifications are necessary, submit a written representation that no revisions or modifications to the design or construction of the Work are necessitated by the use of the product, material or equipment.



- B. Requests for substitutions will only be considered if Contractor completes and submits Material/Product Substitution Request Form and the above supporting data.
- C. At the request of and within the timeframes specified by the University's Representative:
 - 1. Submit samples as deemed necessary by the University's Representative to evaluate the proposed substitution.
 - Submit proposed substitution to tests deemed necessary by the University's Representative to evaluate the proposed substitution. Such tests shall be made by an independent Testing Laboratory and at the sole expense of Contractor, after review and approval of the test procedures by University's Representative. If retesting is deemed necessary by the University's Representative to evaluate the proposed substitution, such re-testing shall be made by an independent Testing Laboratory at the sole expense of the Contractor.
 - 3. Provide any additional information deemed necessary by the University's Representative to evaluate the proposed substitution.
- D. If University's Representative, in reviewing a proposed substitution, requires revisions or corrections to be made to previously accepted shop drawings and supplemental supporting data to be resubmitted, Contractor shall do so within the time period specified by the University's Representative. A proposed substitution may be rejected if Contractor fails to submit such revisions, corrections, or supplemental supporting data within the specified time period.
- E. Except for products, material or equipment designated in the Bidding Documents for evaluation of substitutions prior to award, requests for substitution, including the data required by Paragraph 1.4.A., must be submitted to the University's Representative not later than 35 days after the date of commencement specified in the Notice to Proceed. No requests for substitutions of products, material or equipment subject to the 35-day deadline shall be considered unless the request and supporting data is submitted on or before the deadline, except those deemed, in University's Representative's sole opinion, to be necessary because (i) previously specified or approved manufactured products, material or equipment are no longer manufactured, (ii) of University initiated change orders, or (iii) it is in the best interest of University to accept such substitution.
- F. If a product, material or equipment is designated in the Bidding Documents for evaluation of substitutions prior to award, then a request for substitution of the product, material or equipment, including the data required by Paragraph 1.4.A., must be submitted by the deadline specified in the Bidding Documents. Because of time constraints, only one submittal will be allowed for each such substitution request. Requests for substitutions of products, material or equipment designated for evaluation prior to award may not be made after the deadline specified in the Bidding Documents, and such requests be shall not be considered unless the request and supporting data is submitted on or before the deadline specified in the Bidding Documents. Notwithstanding the forgoing, the University may consider, after award of the Contract, requests for substitution of a product, material or equipment designated for evaluation prior to award where, in University's Representative's sole opinion, a substitution is necessary because (i) previously specified or approved manufactured products, material or equipment are no longer manufactured, (ii) of University initiated change orders, or (iii) it is in the best interest of University to accept such substitution.
- G. In reviewing the supporting data submitted for substitutions, University's Representative will use, for purposes of comparison, all the characteristics of the specified material or equipment as they appear in the manufacturer's published data even though all the characteristics may not have been particularly mentioned in the Specifications. If more than 2 submissions of supporting data are required, the cost of reviewing the additional supporting data shall be at Contractor's expense.



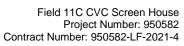
- H. Contractor has the burden of demonstrating, through the procedures specified herein, that its proposed substitution is equal to or superior to the first-named product, material or equipment in quality, utility and appearance and complies with all other requirements of the plans and specifications. If revisions or modifications to the design or construction of the work are necessitated by the use of the substitution, Contractor also has the burden of demonstrating, through the procedures specified herein, that the use of the substitution will not be detrimental to the quality, utility or appearance of the Project or any portion of the Project.
- I. The University's Representative may refuse to approve any requested substitution where, in the reasonable opinion of the University's Representative, Contractor has failed to demonstrate, through the procedures specified herein, that the proposed substitution is equal to, or superior to, the first-named product, material or equipment, in quality, utility and appearance and that the proposed substitution complies with all other requirements of the plans and specifications.
- J. University's Representative may reject any substitution not proposed in the manner and within the time limits prescribed herein.
- K. Substitutions are not allowed unless approved in writing by the University's Representative. Any such approval shall not relieve Contractor from the requirements of the Contract Documents.
- L. The 35-day and 70-day submittal periods do not excuse Contractor from completing the Work within the Contract Time or excuse Contractor from paying liquidated damages if Final Completion is delayed.
- M. If revisions or modifications to the design or construction of the Work are necessitated by the use of a substitution, the substitution may be used only if the revisions and modifications are approved in writing by the University's Representative. The University's Representative may refuse to approve any such proposed revisions or modifications where, in the reasonable opinion of the University's Representative, Contractor has failed to demonstrate, through the procedures specified herein, that the revisions or modifications are not detrimental to the quality, utility and appearance of the Project or any portion of the Project.
- N. If a substitution request is finally rejected by the University's Representative, Contractor shall furnish and install:
 - 1. The first-named product, material or equipment; or
 - A product, material, or equipment, other than the first-named product, material or equipment, specified by both brand or trade name and model number, provided Contractor complies with the submittal requirements (including deadlines) of this specification section 01 2500.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

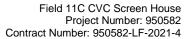
(MATERIAL/PRODUCT SUBSTITUTION REQUEST FORM ON FOLLOWING PAGE)





REQUEST FOR INFORMATION

DATE: mm/dd/yy			RFI#:	
TO:		FROM:		
Ce:				
Subject/Title:				
□Fire		Mechanical	ectrical □ Plumbing	☐ Structural
Protection [□ Landscape □	Other:		
Reason(s) for RFI:	☐ Clarification/Int☐ Coordination Is☐ Cost Impact:	□ Safe	rmation Not Shown on Cl	D's
Issue/Question: (Reference Attachments)				
Specification #: _ Other Reference: _		graph #:	Sheet #: Schedule Activity:	Detail #:
Proposed Solution: (Reference Attachments)				
Signed by Contractor: Response Required by Date: _mm/dd/yy				
RESPONSE TO CO	NTRACTOR:			
From Design Professional: (Reference Attachments)				
Date Received RFI	mm/dd/yy	Response Date: _r	mm/dd/yy Signed:	
From University's (Reference Attachments)	Rep.:			
Date Received RFI	: _mm/dd/yy	Response Date:r	mm/dd/yy Signed:	





LEFT BLANK INTENTIONALLY



SECTION 01 2613 REQUESTS FOR INFORMATION & INSTRUCTIONS (RFI) PROCEDURES

PART 1 - GENERAL

1.1. SUMMARY

A. This Section contains the procedures to be followed by Contractor upon discovery of any apparent conflicts, omissions, or errors in the Contract Documents or upon having any question concerning interpretation.

1.2. PROCEDURES

- A. Notification by Contractor:
 - Submit all requests for clarification or additional information in writing to Design Professional and University's Representative concurrently using the Request for Information (RFI) form attached to this Section.
 - All RFI's, and any attachments thereto, must be submitted in PDF format with Optical Character Recognition (OCR) Text.
 - For any RFI for which Contractor has indicated a Cost Impact or Work/Time Impact, Contractor must also send a copy of the RFI to University's Responsible Administrator at Richard.Racicot@ucr.edu.
 - 2. Limit each RFI to one subject and number RFI's sequentially. For each resubmission, follow the RFI number with suffix "R" sequentially numbered as necessary. For example, the first RFI would be "1." The second RFI would be "2." The first resubmittal of RFI "2" would be "2R1."
 - 3. Submit a RFI if one of the following conditions occurs:
 - Contractor discovers an unforeseen condition or circumstance that is not described in the Contract Documents.
 - Contractor discovers an apparent conflict or discrepancy between portions of the Contract Documents that appears to be inconsistent or is not reasonably inferred from the intent of the Contract Documents.
 - c. Contractor discovers what appears to be an omission from the Contract Documents that cannot be reasonably inferred from the intent of the Contract Documents.
 - Contractor shall not submit a RFI:
 - a. As a request for substitution.
 - b. As a submittal.
 - c. Under the pretense of a Contract Documents discrepancy or omission without thorough review of the Contract Documents.
 - d. In a manner that suggests that specific portions of the Contract Documents are assumed to be excluded or by taking an isolated portion of the Contract Documents in part rather than whole.

UCR 2013-02-26 LF RFI Procedures



- In an untimely manner without proper coordination and scheduling of Work e. of related trades.
- f. As a request for approval of Contractor's means and methods.
- If Contractor submits a RFI contrary to 1.2. A.4. above, Contractor shall pay the 5. cost of any review, which cost shall be deducted from the Contract Sum.
- 6. Contractor shall submit a RFI immediately upon discovery. Contractor shall submit RFI's within a reasonable time frame so as not to delay the Contract Schedule while allowing the full response time described below.

B. Response Time:

- 1. Design Professional shall send its RFI response to University's Representative within a reasonable time so that University's Representative can send a final RFI response to Contractor within the time frames in 1.2. B.2. below.
- University's Representative, or his/her designee, whose decision will be final and 2. conclusive, shall resolve such questions and issue instructions or issue approval of instructions or information from Design Professional, to Contractor within a reasonable time frame. In most cases, RFI's will receive a response within 7 days for architectural issues and within 14 days for issues that require review and response from Design Professional's consultants. In some cases, the response time may be lengthened for complex issues or shortened for emergencies as approved by University's Representative in writing. If in the opinion of University's Representative more than 14 days is required to prepare a response to a RFI, Contractor will be notified in writing.
- Should Contractor proceed with the Work affected before receipt of a response 3. from University's Representative within the response time described above, any portion of the Work which is not done in accordance with University's Representative's interpretations, clarifications, instructions, or decisions is subject to removal or replacement and Contractor shall be responsible for all resultant losses.
- 4. Failure to Agree: In the event of failure to agree as to the scope of the Contract requirements, Contractor shall follow procedures set forth in Article 4 of the General Conditions.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

UCR 2013-02-26 LF **RFI** Procedures



SECTION 01 3113 COORDINATION

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes administrative and supervisory requirements necessary for coordinating construction operations including, but not necessarily limited to, the following:
 - 1. Administrative Requirements
 - 2. Facilities Services Coordination and Service Continuity

1.2. ADMINISTRATIVE REQUIREMENTS

- A. Coordinate construction operations including, but not limited to, the following:
 - Coordinate the Work and do not delegate responsibility for coordination to any Subcontractor.
 - Anticipate the interrelationship of all Subcontractors and their relationship with the Work.
 - Resolve differences or disputes between Subcontractors and their relationship with the Work.
 - 4. Coordinate the Work of Subcontractors so that portions of the Work are performed in a manner that minimizes interference with the progress of the Work.
 - 5. Do not obstruct spaces and installations that are required to be clear by Applicable Code Requirements.
 - 6. Do not cover any piping, wiring, ducts, or other installations until they have been inspected and approved and required certificates of inspection issued.
 - 7. Remove and replace all Work, which does not comply with the Contract Documents. Repair or replace any other Work or property damaged by these operations with no adjustment of Contract Sum.
- B. Coordinate construction operations included in various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations included under different Sections that depend on each other for proper installation, connection, and operation. Coordinate all portions of the Work requiring careful coordination in order to fit in space available. Before commencing such portions of the Work, prepare supplementary Drawings for review by University's Representative and Design Professional. Non-conformance of this task will result in the delay of applications for payment and the contractor responsibility for any remedial works requested by University Representative.
 - Schedule construction operations in the sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to assure maximum accessibility for required maintenance, service, and repair.
 - 3. Make provisions to accommodate items scheduled for later installation, including, but not limited to, coordination of furnishing and placing embedded items, sleeves, and block-outs with formwork and reinforcing steel for cast-in-place concrete.
 - 4. Resolve conflicts and coordinate access to, and utilization of, spaces available for construction activities on the site and within structures, and delivery, storage, and installation of materials and equipment.
 - 5. Implement a quality assurance program designed to ensure completion of the Work in accordance with requirements of the Contract Documents.

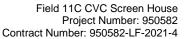
Coordination 01 3113-1



- C. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.
 - 1. Prepare similar memoranda for the University and separate contractors where coordination of their work is required.
- D. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and assure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of schedules.
 - 2. Installation and removal of temporary facilities.
 - 3. Delivery and processing of submittals.
 - 4. Progress meetings.
 - 5. Project closeout activities.
 - 6. Obtaining required permits and approvals from authorities having jurisdiction.
 - 7. Utility company approvals and installations.
- E. Conservation: Coordinate construction operations to assure that operations are carried out with consideration given to conservation of energy, water, and materials.
 - 1. Salvage materials and equipment involved in performance of, but not actually incorporated in, the Work.
- F. Clean and protect construction in progress and adjoining materials in place, during handling and installation. Apply protective covering where required to assure protection from damage or deterioration at Substantial Completion.
- G. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to assure operability without damaging effects.

1.3. FACILITIES SERVICES COORDINATION AND SERVICE CONTINUITY

- A. Maintain continuous services to all existing facilities during the period of construction except for the following conditions:
 - 1. Perform Work that involves "shut-down" of existing facilities at such times as will cause the least inconvenience to the University activities, performing at night, on Saturdays, Sundays, holidays and at the discretion of University's Representative. Furnish University's Representative written notice of exact date and time of "shut-down" at least **thirty (30) working days** in advance, unless a longer period is specified or shown on the Drawings. On jobs with short performance time, Contractor shall verify with University's Representative the number of days required in advance for shut-down.
 - 2. The University's preference would be for the contractor to try to coordinate the high voltage utility shut down simultaneously with the Student Recreation Center's shut down to avoid unnecessary inconvenience to the campus. However this preference is not a mandatory requirement if it doesn't fit in with the contractor's schedule.
 - 3. The Contractor's bid shall include the cost of overtime necessary for the Work. No extra payment will be allowed for overtime to meet this requirement or the Contract Schedule.





B. Service Continuity:

- 1. Within the areas of the Work, investigate and uncover all drainage lines, sewers, electrical ducts, and other piping in use or forming continuations or utility systems required for other buildings or improvements upon the campus, and maintain such services in operation during performance of the Work of the Contract.
- C. Notify University's Representative at least 30 days in advance of all utility shutdowns including date, time and expected duration.

PART 2 – PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 3119 PROJECT MEETINGS

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes administrative and procedural requirements for the following project meetings:
 - 1. reconstruction Meeting
 - 2. Pre-Installation Meetings
 - 3. Progress Meetings
 - 4. Billing Meetings
 - 5. 11-Month Warranty Meeting

1.2. PRECONSTRUCTION MEETING

- A. The University's Representative will schedule a preconstruction conference before starting construction, at a time convenient to the University and the University's Representative, but no later than 10 days after execution of the Agreement. The conference will be held at the Project Site or another convenient location. The meeting will review responsibilities and personnel assignments.
 - 1. Distribute written notice of agenda, meeting time, and location a minimum of five calendar days in advance.
- B. Attendees: The University's Representative and authorized representatives of the Architect, and its consultants; the Contractor and its superintendent; major subcontractors; manufacturers; suppliers; Contractor's designated safety manager; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with the Project and authorized to conclude matters relating to the Work.
- C. Agenda: Items of significance that could affect progress, including the following:
 - 1. Tentative construction schedule.
 - 2. Critical work sequencing.
 - 3. Designation of responsible personnel.
 - 4. Procedures for processing field decisions and Change Orders.
 - 5. Procedures for processing Applications for Payment.
 - 6. Distribution of Contract Documents.
 - 7. Submittal of Shop Drawings, Product Data, and Samples.
 - 8. Preparation of record documents.
 - 9. Use of the premises.
 - 10. Parking availability.
 - 11. Office, work, and storage areas.
 - 12. Equipment deliveries and priorities.
 - 13. Safety procedures, including emergency notification procedures.
 - 14. First Aid.
 - 15. Security.
 - 16. Housekeeping.
 - 17. Working hours.
 - 18. Sustainability requirements, including Contractor staffing.

1.3. PRE-INSTALLATION MEETINGS



- A. The Contractor shall conduct a pre-installation conference at the Project Site before each construction activity that requires coordination with other construction, and as required by other sections of the specifications.
 - The Contractor shall distribute written notice of agenda, meeting time, and location a minimum of five calendar days in advance.
- B. Attendees: The Installer and representatives of manufacturers and fabricators involved in or affected by the installation, and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise the University's Representative of scheduled meeting dates.
 - 1. Review the progress of other construction activities and preparations for the particular activity under consideration at each pre-installation conference, including requirements for the following:
 - a. Contract Documents
 - b. Options
 - c. Related Change Orders
 - d. Purchases
 - e. Deliveries
 - f. Shop Drawings, Product Data, and quality-control samples
 - g. Possible conflicts
 - h. Compatibility problems
 - i. Time schedules
 - Weather limitations.
 - k. Manufacturer's recommendations
 - I. Warranty requirements
 - m. Compatibility of materials
 - n. Acceptability of substrates
 - o. Temporary facilities
 - p. Space and access limitations
 - q. Governing regulations
 - r. Safety
 - s. Inspecting and testing requirements
 - t. Required performance results
 - u. Recording requirements
 - v. Protection.
 - Record significant discussions and agreements and disagreements of each conference, and the approved schedule. Promptly distribute the record of the meeting to everyone concerned, including the University and the University's Representative.
 - Do not proceed with the installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of Work and reconvene the conference at the earliest feasible date.

1.4. PROGRESS MEETINGS

- A. The Contractor shall conduct progress meetings at the Project Site at regular intervals. Notify the University's Representative and the Design Professional of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment request. Document meetings with meeting minutes to be distributed to the University's Representative, the Design Professional and all other attendees.
- B. Attendees: In addition to representatives of the University and the Architect, each subcontractor, supplier, or other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these



meetings. All participants at the conference shall be familiar with the Project and authorized to conclude matters relating to the Work.

- C. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the status of the Project.
 - Contractor's Construction Schedule: Review progress since the last meeting.
 Determine where each activity is in relation to the Contractor's Construction
 Schedule, whether on time or ahead or behind schedule. Determine how
 construction behind schedule will be expedited; secure commitments from parties
 involved to do so. Discuss whether schedule revisions are required to insure that
 current and subsequent activities will be completed within the Contract Time.
 - 2. Review the present and future needs of each entity present, including the following:
 - a. Interface requirements
 - b. Time
 - c. Sequences
 - d. Status of submittals
 - e. Status of RFI's
 - f. Deliveries
 - g. Off-site fabrication problems
 - h. Access
 - i. Site utilization
 - j. Temporary facilities and services
 - k. Hours of work
 - I. Contractor's Safety Program (including any special hazards and risks)
 - m. Housekeeping
 - n. Quality and work standards
 - o. Contractor's two week "look ahead" schedule and issues
 - p. Change Orders
 - q. Documentation of information for payment requests
 - r. Sustainability review, including tracking and status.
- D. Schedule Updating: Revise the Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

1.5. BILLING MEETINGS

- A. Attend a meeting monthly 5 days prior to submittal of the Application for Payment, at a location acceptable to University's Representative.
- B. Attendees:
 - 1. University's Representative.
 - 2. Design Professional and Consultants, as appropriate.
 - 3. Contractor's Project Manager.
 - 4. Superintendent.
 - 5. Others as directed by University's Representative.
- C. Agenda:
 - 1. Determination of current schedule progress.
 - 2. Review of work completed based on the cost loaded schedule to be billed in the Application for Payment.



D. Schedule Updating: Revise the Contract Schedule prior to the meeting based on information determined at prior progress meetings. Review schedule revisions and prepare a final revised schedule for submission 10 days prior to the application for payment.

1.6. 11-MONTH WARRANTY MEETING

- A. Attend a meeting eleven months following the date of Notice of Completion.
- B. Attendees:
 - 1. University's Representative
 - 2. Design Professional and Consultants, as appropriate
 - 3. Contractor's Project Manager
 - 4. Subcontractors, as appropriate
 - 5. Others as directed by Responsible Administrator.
- C. Agenda: Review of guarantees, bonds, service and maintenance contracts for materials and equipment.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 3200 DOCUMENT CONTROL

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes the requirements for Contractor provided electronic document control system(s):
 - 1. General Requirements
 - 2. Submittals
 - 3. Software
 - 4. System Maintenance

1.2. GENERAL REQUIREMENTS

- A. Contractor shall provide a web accessible system for electronic document control designed for use during pre-construction and construction to manage documents including RFIs and submittals.
- B. Contractor shall provide an electronic document control system(s) that is accessible via a web browser (including IE version 7.7) from any geographical location.
- C. Contractor shall provide access to University's Representative, University's Inspector of Record, Design Professional, and at least 7 other individuals identified by University's Representative.
- D. The electronic document control system must use the University numbering system specified in the applicable Specification Section.
- E. Hours of Operation: The electronic document control system shall be available 24 hours a day, 7 days a week except for short periods of planned system maintenance.

1.3. SUBMITTALS

- A. Contractor shall submit a narrative description and outline of the proposed electronic document control system for review and approval by University's Representative.
- B. Contractor shall submit an example of the electronic log for both RFIs and Submittals for review and approval by University's Representative.
- C. Contractor shall establish a commercially available web based RFI and submittal processing system capable of posting RFI's and submittals with the following capabilities:
 - 1. Password secured access with varying levels of "write" or action capability, with multiple user defined stamps for action taken.
 - 2. Accessible from any computer with Internet access, whether in the office or the field.
 - 3. Notification of submittal status based on user profile.
 - 4. Automatic Transmittal generation when submittal is released.
 - 5. Extensive and user friendly mark-up tools and capability.
 - 6. Ability to hide mark-up comments based on user profile.
 - 7. Status of submittal and responsible party.
 - 8. Download in PDF format based on user profile.
 - 9. Tracking of resubmittal process, including University designated numbering system.



PART 2 - PRODUCTS

2.1. SOFTWARE

 Primavera, Prolog or equal is acceptable as the electronic document control system used for RFIs and submittals.

2.2. SYSTEM MAINTENANCE

- A. University shall be notified at least 48 hours in advance of planned system maintenance of the electronic document control system(s). Planned system maintenance should be scheduled not to interfere with construction activities whenever possible. The system uptime shall be at least 95% based on a rolling monthly average.
- B. Contractor is responsible for installation, maintenance, and backup activities of the electronic document control system(s).

PART 3 – EXECUTION (Not Applicable)

1.1. UPDATES

- A. Every two (2) weeks, Contractor shall export or otherwise generate electronic logs of all RFIs and submittals that can be imported into the University's enterprise system. The format of the electronic logs shall be a spreadsheet in MS-Excel format of all the structured data from each RFI or submittals. The exported or otherwise generated log for RFIs shall be separate from the log for submittals. Samples shall be included in the log of submittals.
- B. Contractor shall also allow, at any time, the University's Representative or designee, to download electronic copies of such RFI and submittal documents in a format that is searchable such as printed PDFs. Scanned PDFs are not acceptable except in the case of drawings.
- C. At least 7 days before the date scheduled for Final Inspection, Contractor shall provide University's Representative a complete electronic copy of all electronic files from the electronic document control system for the project.
 - 1. The electronic files shall be executable on CD or DVD.
 - 2. Each disc shall be fully labeled with the project name, contract number, date, and the sequence number of the disc in the set. Files may be submitted compressed, but the decompression utility used (executable preferred) should be fully described with directions included on the transmittal as well as in digital form.

END OF SECTION

Document Control UCR 2014-03-20 LF 01 3200-2



SECTION 01 3216 SCHEDULES

PART 1 - GENERAL

1.1. **SUMMARY**

B.

- Α. This Section includes administrative and procedural requirements for the Critical Path Method (CPM) of scheduling and reporting progress of the Work:
 - 1. Preliminary Contract Schedule
 - 2. Contract Schedule
 - 3. Summary Schedule
 - Narrative Report 4.
 - 5. Variance Report
 - Cash Flow Curve 6.
 - Manpower Curve 7.
 - Look-Ahead Schedule 8.
 - Final As-Built Schedule 9.

specific dates of Contract Time.

- Responsibility for Completion 10. Adjustment of Time for Completion 11.
- Refer to the Agreement, General Conditions, and Notice to Proceed for definitions and
- 1. Contractor shall develop a network plan and schedule for the Project demonstrating complete fulfillment of all contract requirements, shall keep the network plans up-to-date and in accordance with the requirements of this Section and shall utilize the CPM in planning, coordination, performing and reporting the Work under this Contract, including all activities of subcontractors, equipment vendors, and suppliers and in assisting University's Representative in monitoring the progress of the Work.
- 2. The Precedence Diagramming Method (PDM) shall be utilized in preparing the CPM Schedule network diagrams utilizing Primavera Scheduling Software (P6 or the latest version for Windows, MS Project (latest version for Windows), or equal which is 100% importable into Primavera.
- 3. Contractor shall use Primavera Scheduling Software as a computerized critical path scheduling system for producing computer generated reports with the following minimum information:
 - a. Activity identification code keyed to summary and Contract Schedule activities.
 - Activity description. b.
 - Status date and remaining duration. C.
 - Activity percentage complete. d.
 - Activity duration. e.
 - Early start/finish and late start/finish. f.
 - Total float. g.
 - h. Free float.
 - The predecessor and successor activities for each individual activity. i.
 - A comparison between the current updated Contract Schedule and the j. Baseline Schedule.
 - k. Designation of the planned work day/work week for each activity.
 - A critical item list of activities with ten (10) working days or less total float. I.
 - Scheduled and actual manpower loading for each activity. m.
 - Scheduled and actual progress payment for each activity. n.

UCR 2013-02-26 LF Schedules 01 3216-1



C. Definitions:

- 1. Critical Path activities are defined as Work activities that, if delayed or extended, will cause a critical delay as defined in Article 8 of the General Conditions. All other Work activities are defined as non-critical Work activities and are considered to have float.
- 2. Float is defined as the time that a non-critical Work activity can be delayed or extended without causing a critical delay as defined in Article 8 of the General Conditions. Neither Contractor nor University shall have an exclusive right to the use of float. Float is a shared resource available to Contractor and University.
 - Float for any Work Activity shall be calculated as the difference in days a. between the Latest Finish and its Earliest Finish. Any such calculated float that results in a negative number is considered Negative Float.

Submittals: D.

- Preliminary Contract Schedule 1.
- Contract Schedule 2.
- 3. Summary Schedule
- Narrative Report 4.
- Variance Report 5.
- Cash Flow Curve 6.
- 7. Manpower Curve
- Look-Ahead Schedule 8.
- Final As-Built Schedule 9.

1.2. PRELIMINARY CONTRACT SCHEDULE

A. Submittal

- 1. Submit the Preliminary Contract Schedule to University's Representative within the time specified in the Instructions to Bidders and Supplementary Instructions to Bidders.
- 2. Submit to University's Representative 1 hardcopy, 1 electronic copy in PDF, and 1 **electronic copy** in the computerized critical path scheduling system software per 1.1.A.2. above approved by University's Representative.
- 3. Use the form of a bar chart, GANT chart, or other system approved by University's Representative showing the Work from the construction start date through the final completion date, with the work activities involved and other information relative to the progress of the Work, in a continuous flow from left to right.
- 4. Show sufficient detail to demonstrate adequate planning for the Work and to show a practical plan to complete the Work within the Contract Time, and suitable for monitoring progress of the Work.

B. Approval

1. Within 5 days after receipt of the Contract Schedule, University's Representative will notify Contractor of its acceptance or return with comments for resubmittal.

C. Activities and Milestones

- 1. Identify all Work activities which constitute the Critical Path.
- 2. Include submittals and lead times.



3. Identify the milestone for completion of the Project. At a minimum, identify the following milestones:

> Commencement Date Substantial Completion Final Completion

- 4. Identify all holidays and non-working days. Contractor shall perform no work that requires the University's observation or inspection on the following University holidays and campus closure days:
 - a. Regular University Holidays and Campus Closure Days:

New Year's Day Martin Luther King, Jr. Day (3rd Monday in January) Presidents' Day (3rd Monday in February) Cesar Chavez Day (Last Friday in March) Memorial Day (Last Monday in May) Independence Day (July 4) Labor Day (1st Monday in September) Veterans' Day (November 11) Thanksgiving Day (4th Thursday in November) Friday following Thanksgiving Day Christmas Eve Christmas Day

Campus Closure: business days between Christmas Day and New Year's Eve New Year's Eve

Exception: A University Holiday that falls on a Saturday is observed on the preceding Friday, and a University Holiday that falls on a Sunday is observed on the following Monday, unless an alternate day to observe the University Holiday is designated by the University.

b. Other Campus Closure Days: None

CONTRACT SCHEDULE 1.3.

A. Submittal

- Submit the Contract Schedule, or updated Contract Schedule as applicable, within 7 days prior to submitting an Application For Payment.
 - The initial Contract Schedule submitted to and approved by University's Representative shall be known as the Baseline Schedule, and shall be used by Contractor to execute the Work of the Contract, including planning, organizing and directing the Work, and reporting its progress until subsequently updated.
 - b. In no event shall Contractor submit an updated Contract Schedule less than monthly.
 - c. If the commencement or completion of any Work activity on the critical path is more than 30 days behind the date set forth in the Contract Schedule for such Work activity, at University's Representative's sole discretion, University's Representative may require Contractor to submit an updated Contract Schedule at a more frequent interval without additional cost to the University.

If the Contract Time is less than 300 days, and if the commencement or completion of any Work activity on the critical path is more than 10% of the Contract Time behind the date set forth in the Contract Schedule for such Work activity, at University's



Representative's sole discretion, University's Representative may require Contractor to submit an updated Contract Schedule at a more frequent interval without additional cost to the University.

- 2. Submit to University's Representative 1 hardcopy, 1 electronic copy in PDF, and 1 electronic copy in the computerized critical path scheduling system software per 1.1.A.2. above approved by University's Representative.
- 3. Submit the Contract Schedule or updated Contract Schedule in the same form as required in 1.2.A. above.
- 4. The presentation of each Work activity on the Contract Schedule or updated Contract Schedule shall include a brief description of the Work activity, the duration of the Work activity in days, and a responsibility code identifying the organization or trades performing the Work activity.
- 5. The Contract Schedule or updated Contract Schedule shall be a computerized, detailed, task level CPM diagram in PDM format. A clear delineation of construction activities shall be shown. This schedule shall be manpower and cost loaded and not extending beyond the Contract Time.
- 6. The work activities comprising the Contract Schedule shall be of sufficient detail to ensure adequate planning and execution of the Work to provide an appropriate basis for monitoring and evaluating the progress of the Work. A work activity is defined as an activity which requires time and resource (manpower, equipment, and/or material) to complete in a continuous operation. No activity shall be less than 1 day, no more than 14 days duration for any onsite operation.
- 7. Failure by Contractor to include any element of the Work required for the performance of this Contract and completion of the Project shall not excuse Contractor from completing all work required within the Contract Time, regardless of University's Representative's acceptance of the Contract Schedule or any updated Contract Schedule.
- 8. No more than 30% of the total number or activities shown shall be critical or near critical. Near critical is defined as float less than 10 days.
- 9. These schedules shall indicate the sequence and interdependency of work activities and shall be coordinated with all submittal, review and approval requirements.
- 10. Each approved Change Order and Field Order shall be listed and plotted as a separate and independent activity. Schedule components shall be organized into logical groupings by location, responsibility, Specification Section, etc.

B. Approval

- 1. Within 5 days after receipt of the Contract Schedule or updated Contract Schedule, University's Representative will notify Contractor of its acceptance or return with comments for resubmittal.
 - a. Contractor shall participate in a review of the proposed Contract Schedule or updated Contract Schedule by University's Representative when requested.
 - b. Contractor shall resubmit any revisions within 3 days.
- 2. The accepted Contract Schedule or updated Contract Schedule shall be the Contract Schedule of record for the period it is current and shall be the basis for payment during that period. Contractor shall perform the Work in accordance with the Contract Schedule or updated Contract Schedule as accepted.



3. No Application For Payment will be processed nor shall any progress payment become due for work performed until the Contract Schedule or updated Contract Schedule is accepted by University's Representative. University's Representative's acceptance of the Contract Schedule or updated Contract Schedule is a condition precedent to University making any progress payment for work performed.

4. Updating

- a. Contractor shall meet with University's Representative at least **once per month**, or as directed by University's Representative, to review the latest approved Contract Schedule for actual progress made to date, activities started and completed to date, and the percentage of work completed to date on each activity started but not completed, and to incorporate in the Contract Schedule all changes in the progress, sequences, and scope of Work activities.
 - (1) The updated Contract Schedule shall accurately represent the as-built condition of all completed and in-progress Work activities as of the date of the updated Contract Schedule.
 - (2) The updated Contract Schedule shall incorporate all changes mutually agreed upon by Contractor and University during preceding periodic reviews and all changes resulting from Change Orders and Field Orders.
 - (3) Contractor shall document the effect on the updated Contract Schedule whenever float has been used.

C. Activities and Milestones

- 1. Identify all Work activities which constitute the critical path.
- 2. Identify all Work activities in correct sequence for the completion of the Work. Work activities shall include the following:
 - a. Major Contractor-furnished equipment, materials, and building elements, and scheduled activities requiring submittals or University's prior approval.
 - b. Show dates for the submission, review, and approval of each submittal. Dates shall be shown for the procurement, fabrication, delivery, and installation of major equipment, materials, and building elements, and for scheduled activities designated by University.
 - c. System test dates.
 - d. Scheduled overtime Work if required by Contract Documents.
 - e. Dates of Contractor requests for designated working spaces, storage areas, access, and other facilities to be provided by University.
 - Dates of Contractor requests for approvals and decisions from University on designated items.
 - Dates of Contractor requests for University-furnished equipment.
 - h. Dates of Contractor requests for University-furnished utilities.
 - Connection and relocation of existing utilities.
 - Connecting to or penetrating existing structures.

UCR 2013-02-26 LF Schedules 01 3216-5



- k. Inspections and testing.
- I. Commissioning Sequence and activities for all building systems.
- 3. Include the milestones per 1.2.C.
- 4. Include all holidays and non-working days per 1.2.C.

1.4. SUMMARY SCHEDULE

- A. All activities in the Contract Schedule shall be grouped to enable "rollup" of the activities in the form of a Summary Schedule which shall be submitted along with the updated Contract Schedule within <u>7</u> days prior to submitting Contractor's next Application For Payment. A clear delineation of construction activities shall be shown on the summary schedule. The summary schedule shall be manpower and cost loaded.
- B. Review and approval by University's Representative of the Summary Schedule is a condition precedent to University making any progress payments for work performed.

1.5. NARRATIVE REPORT

- A. With each updated Contract Schedule, Contractor shall provide an accompanying Narrative Report within **7** days prior to submitting its next Application For Payment.
- B. The Narrative Report shall describe the progress achieved over the past period since the prior update, the progress anticipated during the upcoming period, critical activities, delays encountered during the prior period, delays anticipated during the upcoming period, and an audit of the Contract Time. The narrative shall also discuss the status of major project milestones. The audit shall show current days allowed by Contract, days used through the end of the period, days remaining, percent of time used to date, and percent complete as measured by a cost loaded schedule, and days ahead of or behind schedule. In the event that the Contractor was delayed by any occurrence during the prior period, the narrative report shall include a listing of all delays that affected the critical path and shall clearly explain the impact the claimed delay(s) had on the critical path and shall include an accounting of days lost or gained.
- C. In the event the monthly update shows the Contractor to be behind schedule (negative float), the narrative shall include a description of actions needed to bring the project back on schedule.
- D. Review and approval by University's Representative of the Narrative Report is a condition precedent to University making any progress payments for work performed.

1.6. VARIANCE REPORT

- A. A variance report shall be submitted along with the updated Contract Schedule within **7 days** prior to submitting Contractor's next Application For Payment.
- B. The variance report shall compare the approved Baseline Schedule and the latest updated Contract Schedule. The report shall include a description of all activities completed during the preceding period (last approved updated Contract Schedule), a description of progress made and planned for activities listed as started but not completed on the updated Contract Schedule, and shall report noncritical activities which have been delayed 10 or more days and critical (8 days or less total float) activities that have incurred any delay. The format of this report shall include:
 - 1. Activity code and description.
 - 2. Baseline scheduled early start/finish dates.
 - 3. Current anticipated early start/finish dates.
 - 4. Days remaining to complete the activity.



- 5. Percentage complete of the activity.
- 6. Total float of the activity.
- C. Review and approval by University's Representative of the Variance Report is a condition precedent to University making any progress payments for work performed.

1.7. CASH FLOW CURVE

- A. Contractor shall submit its Cash Flow Curve of expected progress payments over the time of the Project along with its Contract Schedule within 7 days prior to submitting its first Application For Payment. The curve shall be plotted against the Contract Schedule using the Cost Breakdown approved by University's Representative.
- B. Contractor shall furnish costs for each Work activity that cumulatively equal the total Contract Sum. Mobilization costs may be shown separately; however, other costs, such as profit and bonds, shall be pro-rated throughout all activities.
- C. Contractor shall update the Cash Flow Curve with actuals from the approved progress payments and forecasted progress payments and submit it to University's Representative along with Contractor's updated Contract Schedule per 1.3. The total of approved progress payments and forecasted progress payments shall equal the Contract Sum plus approved Change Orders. The updated curve shall be plotted against the Baseline Schedule and updated Contract Schedule.
- D. Review and approval by University's Representative of the Cash Flow Curve is a condition precedent to University making any progress payments for work performed.

1.8. MANPOWER CURVE

- A. Contractor shall submit a Manpower Curve of the labor requirements per calendar week over the time of the Project along with its Contract Schedule within 7 days prior to submitting its first Application For Payment. The curve shall be plotted against the Baseline Schedule. The curve shall show the number of persons in each craft for each week.
- B. Contractor shall update the Manpower Curve with actual labor employed and forecasted labor requirements necessary to complete the Project within the Contract Time, and shall submit it to University's Representative along with Contractor's updated Contract Schedule per 1.3. The updated curve shall be plotted against the Baseline Schedule and updated Contract Schedule.
- C. Review and approval by University's Representative of the Manpower Curve is a condition precedent to University making any progress payments for work performed.

LOOK-AHEAD SCHEDULE 1.9.

- A. The Look-Ahead Schedule is a schedule derived from the Contract Schedule or updated Contract Schedule that indicates in detail all activities scheduled for work for the next 2 weeks and all activities scheduled to occur during the next 4 weeks.
- B. Submit in 11" x 17" Gantt chart format. Provide as many copies as requested by University's Representative.
- C. The Look-Ahead Schedule shall be generated from the then current Preliminary Contract Schedule, Contract Schedule, or updated Contract Schedule.

1.10. FINAL AS-BUILT SCHEDULE

A. A combined 2-week Look-Ahead Schedule with a 2-week As-Built Schedule for previous two weeks shall be submitted by Contractor for review and approval as often as requested by the University's Representative, at no additional cost.

UCR 2013-02-26 LF Schedules 01 3216-7



- B. As a condition precedent to final acceptance of the Project, Contractor shall submit a final As-Built Schedule and all final reports which accurately reflect the manner in which the Project was constructed and includes actual start and completion dates for all work activities on the last updated Contract Schedule.
- C. As a condition precedent to the release of retention, the last update of the Contract Schedule submitted shall be identified by the Contractor as the "As Built Schedule". The As-Built Schedule shall be submitted when all activities are 100 percent complete. The As-Built Schedule shall reflect the exact manner in which the Project was actually constructed (including start and completion dates, activities, sequences, and logic) and shall include a statement signed by the Contractor that the As Built Schedule accurately reflects the actual sequence and timing of the construction of the Project.

RESPONSIBILITY FOR COMPLETION 1.11.

- A. Delays of any non-critical Work activity shall not be the basis for an extension of Contract Time until the delays consume the float associated with that non-critical Work activity and cause the Work activity to become critical.
- B. Contractor shall not sequester float through strategies including extending activity duration estimates to consume available float, using preferential logic, using extensive or insufficient crew/resource loading, use of float suppression techniques, special lead/lag logic restraints or imposed dates. Use of float time disclosed or implied by the use of alternate float suppression techniques shall be shared for the benefit of both the University and contractor.
- C. It is acknowledged that University generated time savings (critical path submittal reviews returned in less time than allowed by the Contract Documents, approval of substitution requests which result in a savings of time for contractor) create shared float. Accordingly, University caused delays may be offset by University generated time savings.
- D. Contractor agrees that whenever it becomes apparent from the current updated Contract Schedule that the Contract completion date will not be met, it will take some or all of the following actions, with prior approval of University's Representative, at no additional cost.
 - 1. Increase construction manpower in such quantities and crafts as will eliminate, in the judgment of University's Representative, any delay.
 - 2. Increase the number of working hours per shift, shifts per working day, working days per week, or the amount of construction equipment, or any combination of the foregoing, sufficiently to eliminate, in the judgment of University's Representative, any delay. This paragraph shall not be construed to permit Contractor to violate the work hour restrictions specified in the Contract Documents.
 - 3. Reschedule activities to achieve maximum practical concurrent completion activities within the requirements of the specifications.

ADJUSTMENT OF TIME FOR COMPLETION 1.12.

- A. Contractor shall submit a detailed time impact analysis of the Contract Schedule to support an adjustment of the Contract Time for delay under Article 8 of the General Conditions or an adjustment of the Contract Sum for delay under Article 7 of the General Conditions.
- B. Each time impact analysis shall provide information justifying the request and stating the extent of the adjustment requested for each specific change or alleged delay. Each time impact analysis shall be in form and content acceptable to University's Representative, and shall include, but not be limited to the following:



- 1. A fragmentary CPM type network (Fragnet) illustrating how Contractor proposes to incorporate the change or alleged delay into the current updated Contract Schedule.
- 2. Identification of activities in the current updated Contract Schedule which are proposed to be amended due to the change or alleged delay, together with engineering estimates and other appropriate data justifying the proposal.
- C. The time impact analysis shall be determined on the basis of the date when the change was issued, or the date when the alleged delay began. The status of completion of the Work and time impact analysis shall include event time computations for all affected activities.
- D. Contractor shall provide time impact analysis at no additional cost to demonstrate the time impact upon the Contract Time.
- E. If University's Representative finds, after review of the time impact analysis, that Contractor is entitled to any extension of time, the Contract Time will be adjusted per the General Conditions, and Contractor shall revise the updated Contract Schedule accordingly.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

UCR 2013-02-26 LF Schedules 01 3216-9



SECTION 01 3280 ELECTRONIC DATA TRANSFER

PART 1 - GENERAL

1.1. SUMMARY

- A. Section includes Terms and Conditions for the transfer of Electronic Data to Contractor for use in preparation of Submittals, Record Documents, coordination drawings, and related documents to be produced by Contractor and submitted to University:
 - 1. CONTRACTOR'S ACCEPTANCE OF ELECTRONIC DATA IN ANY FORM SHALL CONSTITUTE ACCEPTANCE OF THE TERMS AND CONDITIONS OF THIS SECTION, INCLUDING PAYMENT OF INDICATED FEES.
- B. The University and the Contractor acknowledge that established administrative procedures for management of construction Projects anticipate paper documentation and methods for the exchange of such documents. To the extent the administrative and procedural requirements of the Contract Documents are predicated on established practices the University and the Contractor agree to accept reasonable modifications to certain procedural requirements to facilitate electronic exchange of information and the use of digital media.
- C. Submittals: Only a material original stamped and signed by the University's Representative shall be acceptable as an official record of the processed submittal. When directed, quantities of document submittals specified in the Contract Documents may be adjusted as permitted to facilitate utilization of electronic transfer of information.

TERMS AND CONDITIONS 1.2.

- A. In consideration of Contractor's request to the University to deliver certain Electronic Data for use on the Project, Contractor agrees to the following:
 - 1. Electronic Data includes but is not limited to, computer-aided design (CAD) files including native file formats (DWG) and drawing exchange formats (DXF), and files produced by word processing, spread sheet, scheduling, data base and other software programs. The Electronic Data may be provided in an original format produced by Design Professional or other University consultant, or an alternate, "translated" format as requested by other parties to this Agreement.
 - The means by which the Electronic Data is transferred may include but are not limited to, electronic mail, File Transfer Protocol (FTP) sites, project websites, and disk copies transmitted between the parties to this Agreement. Contractor acknowledges that Electronic Data transferred in any manner or translated from the system and format used by Design Professional or other University consultant, to an alternate system or format is subject to errors that may affect the accuracy and reliability of the data and that the data may be altered, whether inadvertently or otherwise. Accordingly, the University and Design Professional make no warranty, express or implied, as to the accuracy of the information transferred. The Electronic Data are not the Bidding Documents and differences may exist between these electronic files and corresponding hard-copy Bidding Documents. University reserves the right to retain hard copy originals in addition to electronic copies of the Electronic Data transferred, which originals shall be referred to and shall govern.
 - 3. As consideration to University for the transfer of the Electronic Data, Contractor agrees that the University, University's Design Professional, and University's agents and consultants shall not be liable for and hereby waives all claims and agrees to indemnify and hold University harmless from all liabilities, losses, damages or expenses (including attorneys' fees) arising out of, or connected with: (1) the transfer of Electronic

UCR 2013-02-25 LF 01 3280-1



Data by any means; (2) the use, modification or misuse by parties other than University and Design Professional of the Electronic Data; (3) the limited life expectancy and decline of accuracy or readability of the Electronic Data due to storage; (4) any use of the Electronic Data by any third parties receiving the data from other parties to this Agreement; or (5) the incompatibility of software or hardware used by University and Design Professional and the other parties participating in the Work.

- 4. The Electronic Data provided under the terms of this Agreement are the proprietary information of University. All Electronic Data shall be treated as confidential and shall not be disclosed to or shared with others without express, written consent from the University's.
- 5. The University shall issue the most current information available, but does not undertake the responsibility for providing updated information as the Project proceeds. Contractor may make a specific written request for such updated information as Contractor deems necessary, which University will then provide subject to the Terms and Conditions hereof.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 3300 SUBMITTALS

PART 1 - GENERAL

1.1. SUMMARY

A. Section includes:

- 1. Certificates
- 2. Shop Drawings, Product Data, and Samples
- 3. LEED Documentation
- 4. Refrigerant Management Documentation
- 5. Contractor Certification Form
- 6. Subcontractor Certification Form
- 7. Submittal Schedule

B. Definitions:

- Mockups are full-size assemblies for review of construction, coordination, testing, or operation, appearance, and finish by which the Work will be judged; they are not Samples.
- 2. The terms "Shop Drawings" and Product Data" are defined in Article 3.12 of the General Conditions.
- 3. As used herein, the term "manufactured" applies to standard units usually mass-produced. The term "fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements. Shop drawings shall establish the actual detail of all manufactured or fabricated items, indicate proper relation to adjoining Work, and amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure.
- 4. The terms "Shop Drawings" and "Product Data" are defined in Article 3.12 of the General Conditions.
- C. Manufacturer's Instructions: Where it is required in the specifications that materials, products, processes, equipment or the like to be installed or applied in accordance with manufacturer's instructions, directions or specification, or words to this effect, it shall be construed to mean that said application or installation shall be in strict accordance with printed instructions furnished by the manufacturer of the material concerned for use under conditions similar to those at the job site. Three (3) copies of such instructions shall be furnished to the University's Representative and his/her approval thereof obtained before work is begun.
- D. The University's Representative or its Design Professional reserves the right to review and request the removal or redesign of manufacturers' trade marks and names on items of materials and equipment which will be exposed to view in the completed Work. Such removal or redesign shall be at no increase in Contract Sum.
- E. Materials and equipment, for which Underwriters' Laboratories, Inc. standards have been established and their label service is available, shall bear the appropriate UL label.



1.2. CERTIFICATES

- A. Certifications of Review and Coordination: Within 10 days of Notice to Proceed, submit completed Contractor Certification of Review and Coordination and all Subcontractor Certifications of Review and Coordination.
- B. Certifications of Review and Coordination: As required by the General Conditions, perform a thorough review of the Contract Documents prior to commencing the Work. If there are no exceptions, write 'NO EXCEPTIONS" in the space provided.
 - 1. Complete a copy of the Contractor Certification of Review and Coordination Form following this Section.
 - Require all subcontractors to perform a thorough review of the Contract Documents and complete a copy of the Subcontractor Certification of Review and Coordination Form following this Section.
 - 3. Review all completed Forms and resolve conflicting comments, if any, among the various parties so as to present a clear, concise view of items noted.
 - 4. Submitting the required certifications does not relieve the Contractor from responsibility to continue to immediately report new discrepancies, errors, omissions, conflicts, code violations, and improper use of materials discovered in the Contract Documents during the course of construction.
 - Applications for Payment will not be processed by the University's Representative until all certificates have been received.

1.3. SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

A. Shop drawings, product data, and samples, other than in connection with proposed substitutions, shall be submitted to University's Representative only when specifically required; and University's Representative will not review any other such submittals. Product data and samples for proposed substitutions shall be submitted to University's Representative in accordance with Section 01 2500. Contractor shall be responsible for obtaining such copies of shop drawings, product data, and samples as it may require for its own use. Submittals Not Required: No shop drawings of supplemental data are required unless specifically requested by the University or specified herein. No shop drawings shall be submitted unless specifically requested.

1. Submittal Schedule:

- a. Refer to Specific Specification Sections for the list of submittals required under each section and indicate the required submittals on the attached Submittal Schedule for review by University's Design Professional. A schedule of submission of shop drawings, product data, and samples by Contractor ("Submittal Schedule"), and their processing and return by the University's Design Professional shall be agreed upon by both parties in order that the items covered by these submittals will be available when needed by the construction process and so that each party can plan its workload in an orderly manner. Submit Submittal Schedule no later than 30 days after Award of Contract.
- b. Contractor shall prepare the Submittal Schedule in the form as attached or similar form acceptable to the University's Representative, and coordinate it with the Contract Schedule. No submittals will be processed before the Submittal Schedule has been submitted to and accepted by University's Representative, except in such cases where the processing of submittals is required to maintain job progress before the acceptance of the Submittal Schedule.
- c. In preparing the Submittal Schedule, Contractor must first determine from the Contract Schedule the date a particular item is needed for the Work. Working backwards, Contractor will establish the number of days required for fabrication, shipment, placement, and similar activities to determine the date required for the first submittal.



- d. Allow 14-28 day duration for the University's Design Professional's initial review of submittals depending on the submittal/shop drawing and specification section. Allow 7 days for Design Professional to re-review revised or unapproved submittal/shop drawings.
- e. Contractor to indicate whether the submittal is a "Full" or "Partial" submittal on the schedule and on the submittal.
- Material List: Provide complete material list of products proposed for use. Submit Material Safety Data Sheets (MSDS) for Owner's use. Neither the University Representative nor its Design Professional will review MSDS.

3. Contractor's Review:

- a. Contractor Review: The shop drawings and supplemental data, when called for, shall be submitted as the instruments of the Contractor, even though they may have been prepared by a subcontractor, supplier, dealer, manufacturer, or by any other person, firm or organization. Prior to submission, the Contractor shall undertake his/her own review and stamp with his/her acceptance those shop drawings and supplemental data he/she is requested to submit to the University's Architect/Design Professional for his/her review. By accepting and submitting shop drawings and supplemental data, the Contractor represents that the Contractor has determined and verified all field measurements, the physical construction, the quality of materials, the applicability of catalog numbers, and similar data, or will do so, and that the Contractor has checked and coordinated each shop drawing with the requirements of the work and of the Contract Documents. Conflicts with other trades shall be resolved by the Contractor in the shop drawings, if possible, but in any event prior to the actual construction. Drawings submitted in response to a request of the University's Architect shall show rearrangements, if any, made necessary by the use of materials or equipment other than those specified. Review, mark-up as appropriate, and stamp show drawings, product data, and samples prior to submission. Submittals shall clearly show that they have been reviewed and approved by Contractor for conformance with the requirements of the Contract Documents and for coordination with other Sections.
- b. Submittals not stamped and signed by Contractor will be returned without review.
- c. Determine and verify:
 - (1) Field measurements.
 - (2) Field construction criteria.
 - (3) Catalog numbers and similar data.
 - (4) Conformance with Contract Documents.
- d. Coordinate each submittal with requirements of the Work and of the Contract Documents.
- e. Notify University's Representative and it's Design Professional in writing, at time of submission, of any changes in the submittals from requirements of the Contract Documents. Contractor is responsible to correct the deficiencies from the requirements of the contract documents when any changes are not made in writing to the University Representative or its Design Professional at the time of submission. The approval of submittals will be deemed null and void.
- f. Begin no fabrication or Work which requires submittals until the return of the University's Design Professional's final reviewed submittals.



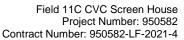
- 4. Coordination Drawings: Prepare coordination drawings where careful coordination is needed for installation of products and materials fabricated by separate entities as specified in Section 01 3300. Prepare coordination drawings where limited space availability necessitates maximum utilization of space for efficient installation of different components.
 - a. Show the relationship of components shown on separate Shop Drawings.
 - b. Indicate required installation sequences.
 - c. Comply with requirements contained in this Section.

5. BIM Procedures:

- a. Contractor shall establish procedures for coordinating work using BIM methods and protocols.
- b. Format and Development: Prepare coordination drawings according to the following requirements:
 - (1) Prepare BIM files for the project based on original hard copy documents as received from the University.
 - (2) Prepare all files using BIM software program, version, and operating system as approved by University.
 - (3) Prepare BIM Execution Plan establishing BIM protocols for project, including standards, responsibilities of Contractor and sub-contractors, schedules, clash detection, and quality control.
 - (4) Designate a specific staff person as Contractor's BIM Coordinator.
 - (5) Submit or post coordination drawing files using format same as file preparation format or Portable Data File (PDF) format.

c. Clash Detection:

- Using BIM procedures perform clash detection as part of preparation of coordination drawings.
- (2) Include clash detection protocol in the BIM execution plan.
- (3) BIM Coordinator will review and assemble the various design and trade models, create clash reports and conduct coordination meetings with University's Representative as defined by the BIM execution plan.
- (4) Run Parameters: Clash detection, at minimum, shall be set to report any hard clashes within a 1 /4 inch tolerance. Clearance tolerances shall be used to account for additional material applied to modeled elements, such as fire proofing or required clearances.
- (5) At a minimum, review Clash Detection documents on a weekly basis. Identify conflicts requiring document modifications and review with University's Representative.
- (6) Update model elements based on field verification of dimensions and orientation.
- d. Following resolution of conflicts and clash detection, prepare coordination drawings for review as follows:
 - (1) Comply with shop drawing requirements for sheet size and submittal methods specified in Section 01 3300 "Submittals".
 - (2) Refer to Specifications in Divisions 2-33 technical specification sections for specific Coordination Drawing requirements.
 - (3) Provide composite coordination drawings for equipment and system installations in mechanical and electrical rooms and spaces where two or more entities will provide the work.
 - (4) Provide composite coordination drawings showing planned locations of core cuts, sleeves, and other penetrations intended for placement in





- concrete decks, slabs, and structural components. Indicate intended use such as openings for conduit, piping, ducts, and utility services.
- (5) Provide composite coordination drawings showing planned locations of fire and sound rated wall penetrations, including dampers. Indicate intended use such as openings for conduit, piping, ducts, and utility services.
- (6) Prepare above-ceiling coordination drawings showing all above-ceiling work including structural members and required clearances and dimensions.
- e. At the end of the project as part of the close out submittals the Contractor shall provide an "as-built" BIM model to be given to the University in addition to the hard copy as built drawings.

6. Submission Requirements:

- a. Make submittals promptly in accordance with the Specifications and in such sequence as to cause no delay in the Work.
 - (1) Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - (a) Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that require sequential activity.
 - (b) Coordinate transmittal of different types of submittals for related elements of the work so processing will not be delayed by the need to review submittals concurrently for coordination.
 - (c) The University's Representative reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
 - (2) Processing: Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmittals.
 - (a) Allow sufficient time from receipt by University's Representative, for initial review and comment. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The University's Representative will promptly advise the Contractor when a submittal being processing must be delayed for coordination.
 - (b) If an intermediate submittal is necessary, process the same as the initial submittal.
 - (c) Allow additional time for reprocessing each submittal.
 - (d) No extension of Contract Time will be authorized because of failure to transmit submittals to the University's Representative sufficiently in advance of the Work to permit processing.
- b. Number of Submittals Required: Refer to Specification Section 01 3500 "Document Control" for distribution of Shop Drawings and Product Data submittals. After each submittal has been reviewed by the Design Professional and returned to the Contractor. The Contractor shall make (two) 2 hard copies of all approved submittals and shall submit the hard copies to the University's Representative for project record filing.
 - (1) Samples: Contractor to submit a minimum of (five) 5 physical samples each of products and or samples for Design Professional's review and approval. After review and approval one sample will be retained by the architect, two (2) for



- the contractor and its subcontractor and two (2) for the University's Representative.
- (2) Shop drawings and supplemental data, where called for, shall be prepared and submitted as per General Conditions. Final corrected copies of schedules and shop drawings or supplemental data to University's Design Professional for review shall be such as to provide one (1) for University's Architect's files, two (2) for the University and two (2) to the Contractor's job files and for distribution by the Contractor to subcontractors or vendors. Exceptions shall be as noted in Specifications sections.

c. Submittals shall contain:

- (1) Identification data number assigned by the Contractor, consisting of the specification section number followed with the number 001 and continuing in sequence.
 - (a) Resubmittals: Add a letter to the previous identification, for instance 01 3400/005/R1 would be a first resubmittal.
 - (b) Use a separate number for each product, assembly, or system. Similar or related items may be grouped only if compatible with review process as approved.
- (2) Date of submission and dates of any previous submissions.
- (3) Project name and number, and contract identification.
- (4) Names of Contractor, Subcontractor, Supplier and Manufacturer.
- (5) Identification of item, with Specification Section number and article/paragraph references.
- (6) Field dimensions, clearly identified as such.
- (7) Relation to adjacent or critical features of the Work or materials.
- (8) Reference standards, such as ASTM or Federal Specification numbers.
- (9) Identification of changes from requirements of the Contract Documents.
- (10)Identification of revisions on resubmittals.
- (11) An 8-inch x 3 inch blank space for review stamps, as necessary.
- (12)Contractor's stamp, initialed or signed, certifying to the review of the submittal; verification of materials and field measurements and conditions; and compliance of the information within the submittal with requirements of the Work and of the Contract Documents.

d. Interpretation of Terms:

- (1) "As directed", "as required", "as permitted", "acceptable", "satisfactory", means by or to the University's Architect. The term "equal" means "equal in the opinion of the University's Architect after submittal data is reviewed". The term "favorable review" means that the submittals for material list, shop drawings, material substitutions, schedules, etc., will be reviewed by the University's Architect and copies returned to the Contractor marked as "Review Completed", "No Exceptions Taken" or "Make Corrections Noted" in which case no further submittals are needed.
- (2) Submittals returned marked "Resubmit", "Amend and Resubmit" or "Rejected Resubmit" shall be corrected to comply with project requirements and shall be resubmitted for review

7. Resubmission Requirements:

- a. Shop Drawings and Product Data:
 - (1) Revise shop drawings or product data, and resubmit as specified for the initial submittal, only if required by University's Design Professional.
 - (2) Identify any changes which have been made other than those requested.



- (3) Note any departures from the Contract Documents or changes in previously reviewed submittals which were not commented upon by University's Design Professional.
- b. Samples: Submit new samples as required for initial submittal.
- c. University's Design Professional's Review: The University's Design Professional will review shop drawings and supplemental data submitted by the Contractor only for general design conformance with the concept of the Project and compliance with the information given in the Contract Documents. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of Contractor as required by the Contract Documents.

8. Distribution:

- a. Reproduce and distribute copies of Submittals including Shop Drawings and Product Data, which carry the University's Design Professional's review stamp, to the following locations:
 - (3) Contractor's Project site file.
 - (4) Record documents file maintained by Contractor.
 - (5) Separate Contractors.
 - (6) Subcontractors.
 - (7) Supplier or manufacturer.
 - (8) Other involved parties as directed by University's Representative.
- 9. Design Professional's or Design Professional's designee's or University Representative's Review will be under the following conditions.
 - a. Review of submittals is only for general conformance with the design concept of the Project and general compliance with the information given in the Contract Documents. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instruction for installation for performance or equipment or systems, all of which remain the responsibility of contractor as required by the Contract Documents.
 - b. The review does not affect the Contractor's responsibility to perform all Contract requirements with no change in Contract Sum or Contract Time. Any actions shown are subject to the requirements of the Drawings, Specifications and other Contract Documents. The Contractor is responsible to confirm and correlate dimensions at the site, for information that pertains to the fabrication processes, for the means, methods, techniques, procedures, sequences and quantities necessary to complete the Contract and for coordination of the work of all trades and satisfactory performance of his work. The review is undertaken solely to satisfy Consultant's obligations, if any to the University and shall not give rise to any claim by the Contractor or other parties against the University's Representative, his/her Consultants or University.

B. Shop Drawings

- Present information required on shop drawings in a clear and thorough manner. Identify details by reference to drawings and detail, schedule, or room numbers shown and specified.
- 2. Shop drawings shall be original drawings by the Contractor. Direct reproductions of the Contract Drawings will not be acceptable as shop drawings.



- Shop Drawings Delineation: The Shop Drawings shall be drawn to scale and shall be completely dimensioned, giving the plan together with such sections as are necessary to clearly show construction detail.
- 4. Responsibility: These Shop Drawings and all supporting data, catalogs, etc., shall be prepared by the Contractor or his/her suppliers, but shall be submitted as the instruments of the Contractor. Therefore, the Contractor shall review and approve the drawings of his/her suppliers as well as his/her own drawings before submitting them to the University's Representative. In particular, the Contractor shall ascertain that the drawings meet all requirements of the Drawings and Specifications and also conform to the structural and space conditions. Each Shop Drawing submitted for review shall bear a stamp certifying that it has been reviewed and approved by the Contractor in accordance with the Contract Documents. If such Shop Drawings show variations from Contract Documents, whether because of standard shop practice or other reasons, the Contractor shall make special mention thereof in his/her letter of transmittal. The Contractor shall be fully responsible for observing the need for and making any changes in the arrangement of piping, connections, wiring, manner of installation, etc., which may be required by the equipment he/she proposes to supply both as pertains to his/her own work and any work affected under other parts, heading or divisions of Drawings and Specifications.
- 5. Identification: Shop Drawings shall be entitled with the name of the project on each sheet and shall otherwise be identified by listing the particular division, section, article or reference of the work pertaining. Submit different items on separate sheets. All submittals shall be numbered sequentially.
- 6. Manner: Furnish for University's Design Professional's approval separate sheets of submittal of each specialty item in the following manner:
 - a. Catalog cuts shall be photocopied or reproduced in some other acceptable manner and submitted on one (1) side only of an 8-1/2" x 11" sheet, noting only the items in question, together with the descriptive (specification) data complete. Once the Design Professional has reviewed the submittal provide two (2) hard copies of each approved, stamped shop drawing and other supporting data to the on-site University's Representative.
 - b. Each sheet shall be identified with the division, section, article or reference in the Contract Documents which covers the item submitted for approval.
 - c. Each sheet shall be identified with the project name, the University's Representative and the project's Design Professional.
 - d. Each sheet shall bear the Contractor's stamp and signature of approval.
- 7. All shop drawings shall be drawn accurately suitable for duplicate copying by black line, blue line printing processes or photocopy.
- 8. Supplemental Data: Supplemental data shall include information as noted in the specification paragraphs requiring them, or as requested by the University.
- Review Required: Shop drawings, if requested, must be submitted to and favorably reviewed by the University's Architect/Design Professional before being used by the Contractor on the job.

C. Product Data

- 1. Clearly mark each copy to identify pertinent Products or models.
- Show performance data consisting of capabilities, rpm, kw pressure drops, design and operating pressures, temperatures, performance curves, noise level curves, power characteristics and consumption; conforming as closely as possible to the test methods referenced in the plan and specifications.



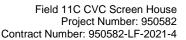
- 3. Show dimensions, weights and clearances required.
- 4. Show wiring or piping diagrams and controls.
- 5. Modify the standard schematic drawings and other diagrams to delete information, which is not applicable to the Work.
- Supplement standard information to provide information specifically applicable to the Work.

D. Samples

- 1. Office samples shall be of sufficient size and quality to clearly illustrate the following:
 - a. Functional characteristics of the products, with integrally related parts and attachment devices.
 - b. Full ranges of color, texture, and pattern.
 - c. Provide a minimum of5 samples plus any additional number for Contractor needs.
- Samples herein referred to shall include all materials, equipment, surface textures, colors, fabrics, etc., as required by Drawings and Specifications or as requested by the University's Design Representative. They shall be submitted as required by the Specifications or requested by the University's Representative or its Design Professional.
- 3. Submittal: Samples, properly identified and described, shall be submitted as noted herein, or as may be required by the University's Representative. They shall be submitted and resubmitted until approved. No approval of a sample shall be taken in itself to change or modify any contract requirement. Finishes, materials, or workmanship in the completed building shall match the approved samples.
- 4. Manner: Contractor shall forward all samples under cover letter in five (5) copies, including a complete listing of such samples designated for use on the project, with complete identification on each sample by project name, ultimate destination of material, manufacturer, brand, lot, style, model, etc., Contract Document reference as well as the names of the Contractor, Supplier, Project, Design Professional and University's Representative. All submittals shall be numbered sequentially.
- 5. Return: Samples of value will be returned to the Contractor for use in the project after review, analysis, comparison and/or testing as may be required by the University's Architect.
- 6. Test Sample: Test samples, as the University's Representative designates, will be selected from the materials or equipment delivered by the Contractor for use in the work. If any test sample fails to meet the specification requirements, all previous approvals will be withdrawn and such materials or equipment which fail the testing shall be subject to removal and replacement by the Contractor with materials or equipment meeting the specification requirements.

E. Mockups

- 1. Provide mock-ups as described in Specification Section 01 4339 and on the following drawings:
- 2. Material List: Provide complete material list of products proposed for use. Submit Material Safety Data Sheets (MSDS) for Owner's use. Neither the University Representative nor its Design Professional will review MSDS.
- Contractor's Review: Review, mark-up as appropriate, and stamp show drawings, product data, and samples prior to submission. Submittals shall clearly show that they have been reviewed and approved by Contractor for conformance with the requirements of the Contract Documents and for coordination with other Sections.





1.4. LEED DOCUMENTATION

- A. Sustainable Design and LEED submittals are in addition to other submittals. If submittal item is identical to that submitted to comply with other requirements, submit duplicate electronic copies as a separate submittal to verify compliance. Any discrepancies shall be referred to the Universities Representative for clarification.
- B. LEED documentation submittals shall be prepared and submitted using the LEED-Online credit website.
- C. Refer to Section 01 8113 "Sustainability Design Requirements" item 1.5 Submittals; for the complete listing of all LEED documentation and submittals required for the project.

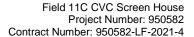
1.5. REFRIGERANT MANAGEMENT DOCUMENTATION

- A. UCR has instituted a requirement to comply with end-of-year refrigerant inventory for reporting to UCOP and with the South Coast Air Quality Management District's policies to account for the use of refrigerant gas delivery, recovery and charging installed with new HVAC and any other equipment using gas refrigerant on UCR projects.
- B. To provide accurate accounting for the reporting of the refrigerant charge in a mechanical system and/or equipment, the actual quantity must be known in order to document gas lost from leaks etc. when repairs are done.
- C. HVAC and other equipment utilizing gas refrigerant that are delivered to the site intact with the factory charge quantity listed on the nameplate or in literature submitted for the design professional's review, can sometimes be charged in the field according to various indications. Therefore the contractor who delivers and installs any system and/or equipment which uses refrigerant shall provide startup reports that list the exact quantity of gas charged into each system and submit these reports to the University's Representative who will provide to UCR EH&S.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION





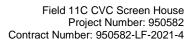
CONTRACTOR CERTIFICATION

COMPLETE THIS CERTIFICATE, INCLUDING SIGNATURE BY PERSON DIRECTLY RESPONSIBLE FOR WORK ON THIS PROJECT. REVIEW EACH SUBCONTRACTOR CERTIFICATION FOR COMPLETENESS AND COORDINATION WITH COMMENTS MADE ON THIS CERTIFICATE AND OTHER SUBCONTRACTOR CERTIFICATES. SUBMIT THIS CERTIFICATE AND ALL SUBCONTRACTOR CERTIFICATES TO THE UNVERSITY'S REPRESENTATIVE WITHIN 10 DAYS OF RECEIVING NOTICE TO PROCEED.

- 1. As required by the General Conditions of the Contract for Construction, the undersigned certifies that a thorough review has been made of all of the Contract Documents, including, but not limited to the Agreement, General and Supplementary conditions, Drawings, specifications, and Addenda (if any) for the Work. The undersigned also acknowledges each subcontractor has been required to perform a similar thorough review and that Contractor and subcontractors have related and coordinated requirements of individual units of Work to requirements for the entire Work.
- 2. The undersigned acknowledges his/her obligation to identify below discrepancies, errors, omissions, conflicts, code violations, and improper use of materials discovered in the Contract Documents. Except as noted below and on subcontractor certificates, the undersigned certifies, to the best of his/her knowledge, information, and belief that the Work can be completed in a workmanlike manner without extensive modifications or additional expense.

EXCEPTIONS:		
NAME, ADDRESS, TELEPHONE OF CONTRACTOR:		
AUTHORIZED SIGNATURE:	DATE:	
NAME (PRINTED CLEARLY OR TYPED):		
TITI F:		

END OF CONTRACTOR CERTIFICATION





LEFT BLANK INTENTIONALLY



SUBCONTRACTOR CERTIFICATION

COMPLETE THIS CERTIFICATE, INCLUDING SIGNATURE BY PERSON DIRECTLY RESPONSIBLE FOR WORK ON THIS PROJECT, AND SUBMIT TO THE GENERAL CONTRACTOR WITHIN 5 DAYS OF RECEIVING NOTICE TO PROCEED FROM GENERAL CONTRACTOR.

- As required by the General Conditions of the Contract FOR construction, the undersigned certifies
 that a thorough review has been made of all of the Contract Documents, including, but not limited to
 the Agreement, General and Supplementary Conditions, Drawings, Specifications, and Addenda (if
 any) for the Work. The undersigned also certifies that Contractor and subcontractor have related and
 coordinated requirements for the entire Work.
- 2. The undersigned acknowledges his/her obligation to identify below discrepancies, errors, omissions, conflicts, code violations, and improper use of materials discovered in the Contract Documents. Except as noted below, the undersigned certifies, to the best of his/her knowledge, information, and belief that no such discrepancies, errors, omissions, conflicts, code violations, or improper use of materials occur in the Contract Documents.
- 3. Except as noted below, the undersigned has no objection to, or reservation about, the materials to be furnished or the conditions under which they will be installed, and is satisfied that contractual responsibilities for units of Work for which undersigned is responsible can be completed in a workmanlike manner without extensive modifications or additional expense.

EXCEPTIONS:	
	DONOIDI F
UNITS OF WORK FOR WHICH UNDERSIGNED IS RESP	PONSIBLE:
NAME, ADDRESS, TELEPHONE OF SUBCONTRACTOR:	
AUTHORIZED	
SIGNATURE:	DATE
NAME (PRINTED CLEARLY OR TYPED)	
TITLE:	

END OF SUBCONTRACTOR CERTIFICATION



LEFT BLANK INTENTIONALLY



SUBMITTAL SCHEDULE									
Section	Shop Dwgs	Prod. Data/List	Samples Mock-ups	Extend. Guarantee	Op/Maint. Manuals	Tests	Extra Mat'l	Certs.	Other
01 1100									
01 1400									
01 2300									
01 2500									
01 2613									
01 3100									
01 3119									
01 3200									
01 3300									
01 3520									
01 3540									
01 4100									
01 4200									
01 4300									
01 4339									
01 4500									
01 4520									
01 5000									
01 5739									
01 6000									
01 7123									
01 7329									
01 7419									
01 7423									
01 7700									
01 7836									
01 7839									
01 8113									
01 9113									

NOTE: Should a discrepancy arise between this schedule's requirements and individual requirements, the most stringent requirement shall prevail.

END OF SECTION



Standard Specification

SECTION 01 33 29.08 BUY CLEAN CALIFORNIA REPORTING

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. Section includes general requirements and procedures for compliance with Buy Clean California Act per California Public Contract Code, Sections 3500-3505.
- B. Contractor is requested to submit current facility-specific environmental product declaration for each eligible material proposed to be used on the Project.

1.2 DEFINITIONS

- A. Environmental Product Declaration (EPD): Type III environmental impact label, as defined by the International Organization for Standardization (ISO) standard 14025, or similarly robust life cycle assessment methods that have uniform standards in data collection consistent with ISO standard 14025, industry acceptance, and integrity.
- B. Eligible Materials: Any of the following:
 - 1. Carbon steel rebar.
 - 2. Flat glass.
 - 3. Mineral wool board insulation.
 - Structural steel.

1.3 SUBMITTALS

- A. General: Buy Clean California submittals are requested to be submitted along with other required submittal items for eligible materials as described in the Specifications.
- B. Facility-specific Environmental Product Declaration: For each eligible material proposed to be used on the Project.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 33 29.08



SECTION 01 3520 DESIGN ASSIST PROCEDURES

1.1 SUMMARY

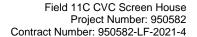
- A. Section includes requirements of Contractor for design-assist work including, but not necessarily limited to, those identified in the various Sections of the Specifications and the following:
 - 1. Contractor's Responsibility
 - 2. Coordination with Architectural Design Intent
- B. The following require design assistance:
 - 1. Pre-Fabricated metal stairs including guardrails and the application of concrete filled metal pans and precast treads.
 - 2. Pedestrian Bridges.
 - 3. Other railing and guardrails.
 - 4. Fixed sunshades.
 - 5. Fiber reinforced cementitious wall siding and furring rain screen system.
 - 6. Translucent canopy system.
 - 7. Storefronts and curtain walls.
 - 8. Fire sprinkler system.
 - 9. Fire alarm system.
- B. Design-assist procedures are specified to assist Contractor in coordinating design-assist work.

1.2 CONTRACTOR'S RESPONSIBILITY

- A. Contractor acknowledges that it shall be responsible for the design, method of construction, and coordination and integration with other trades to achieve the architectural design intent of the Contract Documents, of those portions of the design-assist work including sizing, sequence, placement and details of construction.
- B. Contractor guarantees the following:
 - Design-assist work shall be constructed in compliance with building codes and ordinances in effect and shall be fit and proper for its intended use.
 - 2. Where relevant, design and method of construction of the design-assist work shall not incorporate or employ the use of any product, process or technique which may be protected by common law or statutory patent, copyright or trade secret rights unless Contractor or subcontractor shall be the lawful owner or licensee of same.
- C. Contractor shall indemnify and hold harmless University, University's Representative, Architect and it's consultants, and agents and employees of any of them from and against claims, damages and expenses resulting from breach or failure by Contractor to perform fully any of the forgoing obligations and specifically agrees to indemnify and hold University harmless from any and all claims of the Contractor's employees, agents, subcontractors, suppliers or third parties and to make good any damages to the Work, and attorneys' fees

May 2003 LF:01155, UCR 2010-02-22 **DESIGN-ASSIST PROCEDURES**

01 3520 - 1





and costs of additional work by University's Design Professional resulting from the inadequacies of the design, techniques or methods of construction of the design-assist Work.

- D. The design and the drawings and specifications for the techniques and method of construction of the design-assist work shall be prepared and shall result in work which is fit to perform its intended purpose.
- E. For design-assist work, Contractor shall provide plans, specifications, and calculations that are prepared, stamped, and signed by qualified, registered, licensed engineers authorized to practice their professions under the laws of the State of California. The plans, specifications, and calculations shall be acceptable to the University's Representative.
- F. Prior to commencement of the design-assist work at the Project Site, Contractor shall provide the University with copies of current insurance policies covering the errors or omissions of persons designing the design-assist work with maximum deductibles and limits per occurrence as mutually agreed by the University and Contractor, together with an endorsement providing for a 30-day notice to University prior to cancellation or material reduction in coverage.



G. Maintain insurance at least the period equal to the applicable statute of limitations for claims arising out of latent defects in works of improvement to real property, if such insurance is not written on an "occurrence" basis during the time the design-assist work is designed and constructed.

COORDINATION WITH ARCHITECTURAL DESIGN INTENT 1.3

Α. Ceilings:

- 1. Coordinate the work of all trades involved to ensure clearances for fixtures, ducts, piping, ceiling suspension systems and other above-ceiling work as necessary to maintain finished ceiling heights.
- 2. Paint all exposed items at ceilings. Paint air grilles to match adjacent ceiling finish.
- Locate light fixtures, sprinkler heads, and diffuser grilles in the center of ceiling panels.
- Areas Where Structure Is Exposed:
 - 1. Install sprinkler lines, ductwork, conduit, plumbing, process piping, lighting and all other overhead items at regular intervals, parallel to and/or perpendicular with building column grid lines.
 - 2. Align all hangers, wires, braces, struts, chains, junction boxes, etc. in any given line aligned with one another, and install in the same fashion, for a neat, uniform appearance.
- Review proposed layouts with University's Representative and other trades in the field prior to commencing work. Layouts which have not been so reviewed will be subject to change at no additional expense to the University if found unsatisfactory. Areas subject to such review include but are not necessarily limited to exposed structure areas.
- Do not locate sprinkler lines, piping, ductwork, conduit, access panels, and cleanouts in" Special Feature Areas" and finishes, including walls and ceilings, except as otherwise specifically shown on the Drawings.
 - 1. Engineering design and construction shall be by alternative route and not necessarily direct route method.
 - 2. Special Feature Areas include:
 - a. Reception and Lobby areas:

Building J public areas

Building H public areas

Building K public areas

Building N public areas

b. Open stairways and special building pedestrian circulation routes.

END OF SECTION

UCR 2013-03-04 LF **Design Assist Procedures**



SECTION 01 3543 ENVIRONMENTAL PROCEDURES

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes:
 - 1. Hazardous Materials Procedures
 - 2. Toxic Materials Procedures
 - 3. University of California Approved TSDFs (Attached to end of Section.)

B. Submittals:

Submit Material Safety Data Sheets (MSDS) for all materials, whether existing or incorporated into the work, which are identified as potentially hazardous but not required to be abated.

1.2. HAZARDOUS MATERIALS PROCEDURES

- A. Except as otherwise specified, in the event Contractor encounters on the Project Site material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), or other hazardous materials which have not been previously identified and/or rendered as harmless, the Contractor shall immediately stop Work in the area affected and immediately contact the University's Representative by phone and/or by texting, and then by email. The Work in the affected area shall not thereafter be resumed except by written agreement of University and Contractor if in fact the material is asbestos, PCB, or other hazardous materials. The Work in the affected area shall be resumed in the absence of asbestos, PCB, or other hazardous materials, or when such materials have been rendered harmless.
- B. If material has been encountered on site the Contractor shall immediately report the condition to the University's Representative as stated in 1.2.A. UCR Environmental Health & Safety shall conduct an on-site assessment of the material. If the material is determined to be hazardous then the University shall prepare a plan to remediate and properly dispose of the material.
- 1.3. TOXIC MATERIALS PROCEDURES NOT USED

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 4100 REGULATORY REQUIREMENTS

PART 1 - GENERAL

1.1. **SUMMARY**

- A. Section includes:
 - 1. Applicable Codes, Regulations, and Authorities
 - 2. Regulatory Notifications
 - Permit Requirements, Notifications, and Certificates 3.
 - 4.
- References in the Specifications to "code" or to "building code," not otherwise identified, B. shall mean the foregoing specified codes, together with the additions, changes, amendments, and interpretations adopted by the enforcing agency and in effect on the date of these Contract Documents. Nothing on the Drawings or in the Specifications shall be interpreted as requiring or permitting work that is contrary to these rules, regulations, and codes.
- C. Where other regulatory requirements are referenced in these Specifications, the affected work shall meet or exceed the applicable requirements of such references.
- D. Nothing stated in this Section of the Specifications or other Sections of the Specifications, the other Contract Documents or shown on the Drawings shall be construed as allowing Work that is not in strict compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards.
- E. Regulatory requirements referred to shall have full force and effect as though printed in these Specifications.
- F. Discrepancies between these codes/rules/etc. and the Contract Documents shall be brought to the attention of the University's Representative for resolution. Unless otherwise directed by the University's Representative, if a conflict exists between referenced regulatory requirements and the Contract Documents, comply with the one establishing the more stringent requirements.

1.2. APPLICABLE CODES, REGULATIONS, AND AUTHORITIES

- A. All applicable federal, state, and local laws and the rules and regulations of governing utility districts and the various other authorities having jurisdiction over the construction and completion of the Project, including the latest rules and regulations of the state fire marshal, OSHA, and the California Labor Code, shall apply to the Contract throughout, and they shall be deemed to be included in the Contract the same as though printed in these Specifications.
- B. Codes and regulations that apply to this Project include, but are not limited to, the following including additions, changes, and interpretations adopted by the enforcing agency in effect as of the date of these Contract Documents.
 - 1. California Code of Regulations (CCR):
 - a. Title 8. Industrial Relations
 - b. Title 17, Public Health
 - Title 19, Public Safety
 - Title 20, Public Utilities and Energy

e. Title 21, Public Works

UCR 2013-02-11 LF 01 4100-1



- f. Title 22. Environmental Health
- g. Title 24: Building Standards Code
 - (1) Part 2, California Building Code
 - (2) Part 3, California Electric Code
 - (3) Part 4, California Mechanical Code
 - (4) Part 5, California Plumbing Code
 - (5) Part 6, California Energy Code
 - (6) Part 7, California Elevator Safety Construction Code
 - (7) Part 9, California Fire Code
 - (8) Part 11, California Green Building Standards Code
 - (9) Part 12, California State Reference Standards
- 2. In addition to the above, work shall comply with the following:
 - a. California Environmental Quality Act (CEQA).
 - b. California Health and Safety Code.
 - c. California Occupational Safety and Health Act Standards (Cal-OSHA).
 - d. California Department of Transportation (Caltrans): Standard Specifications, latest edition.
 - e. National Fire Protection Association (NFPA): Standards 13, 24, 72, and 80.
 - f. Americans with Disabilities Act Title II (ADA).
 - g. Federal Occupational Safety and Health Act (OSHA).
 - h. Federal Environmental Protection Agency Clean Air Act.
 - i. Storm Water Pollution Prevention Act.
- 3. All work shall meet or exceed code and regulatory requirements.
- C. Copies of Regulations: Obtain copies of the following regulations and retain at the Project site to be available for reference by parties who have a reasonable need:
 - 1. California Code of Regulations, Title 8, 9 and 19
 - 2 California Code of Regulations, Title 24, including:
 - a. Part 1, California Administrative Code
 - b. Part 2, California Building Code, Volumes 1 and 2
 - c. Part 3, California Electrical Code
 - d. Part 4, California Mechanical Code
 - e. Part 5, California Plumbing Code
 - f. Part 6, California Energy Code
 - g. Part 7, California Elevator Safety Construction Code
 - h. Part 9, California Fire Code
 - i. Part 11, California Green Building Standards Code
 - i. Part 12, California Referenced Building Standards Code
 - 2. California Health and Safety Code regulations as referenced in the specifications.
 - 1. CAL/OSHA Construction Safety Orders.
 - 2. City of Riverside "Department of Public Works Standards and Specifications.
 - 3. National Electrical Code. Covered by Part 3
 - 4. National Fire Protection Association standards as referenced within the specifications
 - 5. State of California, Department of Transportation, Division of Highways, "Materials Specifications." [should keep this in]
 - 6. State of California, Department of Transportation, Division of Highways, "Standard Specifications." [should keep this in]
 - 7. State of California, Office of State Fire Marchal Covered by Title 19 and Part 9
 - 8. California Industrial Accident Commission, Safety Bulletins .
 - 9. Uniform Building Code
 - 10. Uniform Mechanical Code
 - 11. Uniform Plumbing Code
 - 12. Standard Specifications for Public Works, (Greenbook), with local agency amendments.

UCR 2013-02-11 LF Regulatory Requirements
01 4100-2



D. 2010 ADA Accessibility Standards for Accessible Design

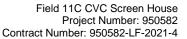
1.3. REGULATORY NOTIFICATIONS

- A. Submit all required notifications to Federal, State of California, State in which disposal facility is located if not in California, regional, and local agencies with regulatory responsibilities associated with the Work activities that are included in the Contract. All notifications shall be served in writing, in the form required by the agency requiring notification, and in a timely manner so as not to negatively impact the Project schedule. Serve notifications at least 10 business days in advance (or earlier if required by agency) of activity requiring notice. The Contractor shall serve all required notifications in writing to all governmental and quasi-government agencies having notification requirements pertaining to any portion of the Work included in the Project.
- B. Contractor shall file a Notice of Intent for coverage under State General Construction Activity Storm water Permit National Pollutant Discharge Eliminate System (NPDES). Contractor shall comply with applicable permit requirements including the project Storm Water Pollution Prevention Plan.

1.4. PERMIT REQUIREMENTS, NOTIFICATIONS, AND CERTIFICATES

- A. Permits, Licenses, and Certificates: For the University's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgment, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.
- B. Underground Service Alert (USA) Notifications: Prior to commencing clearing, excavation and trenching, coordinate with Underground Service Alert of Southern California for field verification and marking of utilities within the limits of Project site. Contractor shall be responsible for outlining limits of excavation with white chalk paint prior to coordination with USA. Coordination shall require 2 business days advance notification prior to start of excavation work. Provide USA notification permit number to the University's Representative prior to starting site Work.
- C. In no event, shall the Contractor install materials that contain asbestos, PCB, lead or other known hazardous materials unless prior approval is obtained from the University.
- D. Regulated Carcinogens by Title 8 California Code of Regulations (CCR), Subchapter 7, Group 16 (Control of Hazardous Substances), Article 110 (Regulated Carcinogens).
 - 1. Products containing chemicals regulated as carcinogens by the State of California are not allowed for use on University projects.
 - Case-by-case exceptions may be considered for products containing the following Cal/OSHA recognized carcinogens:

Methylene Chloride, 5202 Cadmium, 1532, 5207 Inorganic Arsenic, 5214 Formaldehyde, 5217 Benzene, 5218





- 3. Case-by-case exceptions may only be made when suitable alternative products are not available. Such exceptions are subject to written approval by the University's Representative.
- 4. Exceptions require that the Contractor shall have an established carcinogen program as required by Cal/OSHA (§5203. Carcinogen Report of Use Requirements) and shall submit to University's Representative, a copy of the Cal/OSHA Confirmation of Report for Cal/OSHA carcinogens.
- 5. When exceptions are granted, the Contractor is responsible for providing to the University's Representative a copy of the semi-annual Confirmation of Report received from Cal/OSHA or, in lieu of that, a copy of the Contractor's semi-annual report as submitted to Cal/OSHA at periods not to exceed 6 months, or at project closeout, whichever occurs first.
- E. Fire Department and Additional Notifications, Manifests, and Requirements: As required by University and coordinated by Contractor with the University's Representative.
- 1.5. FEES
 - A. None

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 4200 REFERENCES

PART 1 - GENERAL

1.1. SUMMARY

A. Section includes:

- 1. Specification Format and Content Explanation
- 2. Definitions
- 3. Reference Standards
- 4. Abbreviations and Acronyms

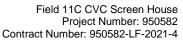
1.2. SPECIFICATION FORMAT AND CONTENT EXPLANATION

- A. Specification Format: These Specifications are organized into Divisions and Sections based on the 49-division format and CSI/CSC's "Master Format" numbering system.
- B. Specification Content: These Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be interpolated as the sense requires. Singular words shall be interpreted as plural and plural words interpreted as singular where applicable as the context of the Contract Documents indicates.
 - Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by the Contractor. At certain locations in the Text, subjective language is used for clarity to describe responsibilities that must be fulfilled indirectly by the Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon is used within a sentence or phrase.

1.3. DEFINITIONS

- A. "Indicated": The term "indicated refers to graphic representations, notes, or schedules on the Drawings; or to other paragraphs or schedules in the Specifications and similar requirements in the Contract Documents. Terms such as "shown," "noted," "scheduled," "detailed" and "specified" are used to help the user locate the reference. Location is not limited.
- B. "Directed": Terms such as "directed," "requested," "authorized," "selected," "approved," "required," and "permitted" mean directed by the University's Representative or University, requested by the University's Representative or University, and similar phrases.
- C. "Approved": The term "approved," when used in conjunction with the University Representative's action on the Contractor's submittals, applications, and requests, is limited to the University Representative's duties and responsibilities as stated in the Conditions of the Contract.
- D. "Regulations," "building code," "code": The terms "regulations," "building code", and "code" include laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, as well as rules, conventions, and agreements within the construction industry that control performance of the Work.

References 01 4200-1

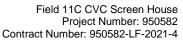




- E. "Furnish": The term "furnish" means to supply and deliver to the Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- F. "Install": The term "install" describes operations at the Project site including the actual unloading, temporary storage, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing protecting, cleaning, and similar operations.
- G. "Provide": The term "provide" means to furnish and install, complete in place, operating, tested, approved, and ready for the intended use.
- H. "Installer": An installer is the Contractor or another entity engaged by the Contractor, either as an employee, subcontractor, or contractor of lower tier, to perform a particular construction activity, including installation, erection, application, or similar operations. Installers are required to be experienced in the operations they are engaged to perform.
 - Unless specified otherwise in other Sections, the term "experienced," when used with
 the term "installer," means having successfully completed a minimum of five previous
 projects similar in size and scope to this Project; being familiar with the special
 requirements indicated; and having complied with requirements of authorities having
 jurisdiction.
 - 2. Trades: Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to tradespersons of the corresponding generic name.
- I. "Project site" is the space available to the Contractor for performing construction activities, either exclusively or in conjunction with others performing other work as part of the Project. The extent of the Project site is shown on the Drawings and may or may not be identical with the description of the land on which the Project is to be built.
- J. "Testing Agencies": A testing agency is an independent entity engaged to perform specific inspections or tests, either at the Project site or elsewhere, and to report on and, if required, to interpret results of those inspections or tests.
- K. "Similar": The term "similar" means in the general sense and not necessarily identical.
- L. See also the Instructions to Bidders and General Conditions.

1.4. REFERENCE STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
 - Requirements for packaging, packing, marking, and preparation for shipment or delivery included in referenced federal specifications are not mandatory for products provided for this Work.
- B. Publication Dates: Comply with the standards in effect as of the date of the Contract Documents except where a specific publication date or issue is included with the reference in other Sections of these Specifications.
 - When a named or proposed product complies with a referenced standard of different publication date or issue than required by these Specifications, submit the product as a substitute under provisions of Division 1 Section "Substitutes." Provide a detailed written summary of changes in product or workmanship quality and performance as a





result of the product complying with a different version of a standard from the version referenced.

- C. Conflicting Requirements: Where compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different but apparently equal to the University's Representative for a decision before proceeding.
 - 1. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicate numeric values are minimum or maximum, as appropriate, for the context of the requirements. Refer uncertainties to the University's Representative for a decision before proceeding.
 - Where a product is specified by both brand name and reference to 1 or more standards, provide that product only if it actually complies with the required standards. Listing of a product by brand or trade name in these Specifications is not a warranty that the product complies with the standards which may also be listed. If a named product does not comply with 1 or more of the required standards and no alternative product is listed which does comply, submit a substitute product under provisions of Division 1 Section "Substitutes" which complies with the required standards.
- D. Copies of Standards: Each entity engaged in construction on the Project must be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - Where copies of standards are needed to perform a required construction activity, the Contractor shall obtain copies directly from the publication source and make them available on request.

1.5. ABBREVIATIONS AND ACRONYMS

- A. Trade Abbreviations and Association Names: Trade association names and titles of general standards are frequently abbreviated. The following abbreviations and acronyms, as referenced in the Contract Documents, mean the associated names. Names and addresses are subject to change and are believed, but not assured, to be accurate and up-to-date as the date of the Contract Documents.
- B. Federal Government Agencies: Names and titles of Federal Government standards- or specification-producing agencies are often abbreviated. The following abbreviations and acronyms referenced in the Contract Documents indicate names of standards-or specificationproducing agencies of the Federal Government. Names and addresses are subject to change and are believed, but are not assured, to be accurate and up-to-date as of the date of the Contract Documents.
- C. The following are commonly used abbreviations which may appear in the Project Manual. Refer to Construction Specifications Institute Document TD-2-4 "Abbreviations" for explanation of other abbreviations.

C degree Centigrade

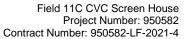
Co. Company Corp. Corporation

F degree Fahrenheit

ft. foot (feet)

ga. gage or gauge

gal. gallon(s)





in. inch(es)
Inc. Incorporated

HVAC Heating, Ventilating and Air Conditioning

lb(s). pound(s)

o.c. on center

psi pounds per square inch

psf pounds per square foot

sq. square

yd. yard(s)

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

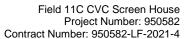


SPEC. SEC. REF.: PARA: DWG REF: DETAIL: DESCRIPTION OF DEFECTIVE CONDITION (IOR): REPORTED BY (IOR): CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH T INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE T UNIVERSITY'S REPRESENTATIVE IMMEDIATELY. DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): ACCEPTED BY (CONTRACTOR): DATE: UCR USE ONLY ACCEPTANCE OF CORRECTED DEFECTIVE CONDITION (IOR):			NONCO	ONFORMING WORK NOTIC NUMBER: DATE:	
DESCRIPTION OF DEFECTIVE CONDITION (IOR): REPORTED BY (IOR): CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH T INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE T UNIVERSITY'S REPRESENTATIVE IMMEDIATELY. DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): ACCEPTED BY (CONTRACTOR): DATE: UCR USE ONLY	то:		FROM:		
REPORTED BY (IOR): CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH T INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE T UNIVERSITY'S REPRESENTATIVE IMMEDIATELY. DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): ACCEPTED BY (CONTRACTOR): DATE: UCR USE ONLY	SPEC. SEC. REF.:	PARA:	DWG REF:	DETAIL:	
REPORTED BY (IOR): CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH T INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE T UNIVERSITY'S REPRESENTATIVE IMMEDIATELY. DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): ACCEPTED BY (CONTRACTOR): DATE:	DESCRIPTION OF DEFEC	CTIVE CONDITION (IO	R):		_
CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH T INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE T UNIVERSITY'S REPRESENTATIVE IMMEDIATELY. DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): ACCEPTED BY (CONTRACTOR): UCR USE ONLY					
CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH T INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE T UNIVERSITY'S REPRESENTATIVE IMMEDIATELY. DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): ACCEPTED BY (CONTRACTOR): DATE:	REPORTED BY (IOR):				_
ACCEPTED BY (CONTRACTOR):DATE: UCR USE ONLY	INSPECTOR OF RECO UNIVERSITY'S REPRESE	RD (IOR). IF FURT NTATIVE IMMEDIATE	THER INFORMATION I LY.	IS NEEDED, ADVISE TI	1E
	-				_
	ACCEPTANCE OF CORR				
ACCEPTED BY (IOR): DATE:				DATE	_

CONSULTANT

COPIES: UNIVERSITY

CONTRACTOR





LEFT BLANK INTENTIONALLY



SECTION 01 4300 INSPECTION OF WORK

PART 1 - GENERAL

1.1 **SUMMARY**

- A. This Section includes, without limitation, the following:
 - 1. Access to the Work
 - Testing and Approval 2.
 - 3. University's Inspectors
 - Inspection Requests
 - Inspection Request Form
 - Nonconforming Work Notice
- B. The University will provide a Project Inspector or Inspector of Record (IOR) for this project. Contractor shall not cover any work requiring inspection until the IOR has inspected and approved the subject work. For uncovering of work, refer to General Conditions, Article 12.

1.2 ACCESS TO THE WORK

Α In addition to the requirements of the General Conditions, University, University's Representative and their representatives shall at all times have access to the Work wherever it is in preparation or progress and Contractor shall provide safe and proper facilities for such access and for inspection. The inspection and written acceptance of material and workmanship, unless otherwise stated in these Specifications, shall be final except as provided in Article 12.2 of the General Conditions.

TESTING AND APPROVAL 1.3

- A. In addition to the requirements of the General Conditions, if any law, ordinance or public authority or the Specifications or University's Representative's instructions require any work to be specially tested or approved (including use of ionizing radiation for radiography), Contractor shall give University's Representative timely notice of its readiness for inspection, and if the inspection is by another authority, other than University's Representative, of the date fixed for such inspection.
- B. Re-examination of questioned work may be ordered by University's Representative.

1.4 UNIVERSITY'S INSPECTORS

- Α. The IOR shall report to University's Representative. The IOR shall observe construction in progress and shall have the following responsibilities and limitations on authority.
 - 1. Act under the direction of University's Representative.
 - 2. Observe installation and work in progress as a basis for determining conformance of the work, materials and equipment with the Contract Documents. IOR will report any discrepancies observed to University's Representative and Contractor. Only University's Representative has the final authority to make approvals or rejections.
 - 3. Only University's Representative shall interpret the requirements of the Contract Documents. If any item is ambiguous, University's Representative shall make a written interpretation. If Contractor requests changes or modifications to the Contract Documents, University's Representative shall make a written determination on the requested changes or modifications.

UCR 2013-06-20 LF Inspection of Work



- Prepare and submit an inspection report to University's Representative for each 4. inspection performed.
- 5. Review application for payments.
- 6. Assist University's Representative in reviewing the test and inspection results of testing laboratories.
- 7. The IOR is not authorized to permit deviations from the requirements of the Contract Documents unless such deviation has been approved by University's Representative in writing.
- 8. The IOR shall not supervise, coordinate, or direct the Work. The IOR has no responsibility or control over Contractor's construction means, methods, techniques, sequences, procedures, or coordination of any portions of the Work, or over any safety programs in connection with the Project.
- B. The failure of University. University's Representative and its representatives and consultants, or University's IOR to observe or inspect the Work, or to detect deficiencies in the Work, or to inform Contractor of any deficiencies which may be discovered, shall not relieve Contractor, its subcontractors regardless of tier, or suppliers from their responsibility for construction means, methods, techniques, sequences and procedures, construction safety, nor from their responsibilities to carry out the work in accordance with the Contract Documents and to detect and correct defective work as defined in the General Conditions.

1.5 INSPECTION REQUESTS

- A. Contractor shall request inspection of completed portions of the Work through University's Representative. Contractor shall submit a request for inspection using University's Inspection Request Form attached to the end of this Section.
 - 1. Contractor shall submit an Inspection Request at least 3 working days prior to the time the work will be ready for inspection.
 - 2. For work to be inspected by a third party testing laboratory, whether Contractor's or University's, Contractor shall submit an Inspection Request at least 3 working days prior to the time the work will be ready for inspection.
 - 3. For work not in conformance with the Contract Documents, the IOR shall submit to the Contractor a Nonconforming Work Notice.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

- 2.1 Refer to the Inspection Request Form attached at the end of this Section.
- 2.2 Refer to the Nonconforming Work Notice form attached at the end of this Section.

END OF SECTION

UCR 2013-06-20 LF Inspection of Work



INSPECTION REQUEST

INSPECTION REQUEST INSTRUCTIONS USING CFORMS

- 1. *Log into http://ucr.cforms.net
- 2. Complete Automated Inspection Request Form
- 3. Select your Permit # from the drop down menu and request the inspection you are in need of
- 4. An e-mail will be sent to the IOR for that project, advising them that you are requesting inspection
- 5. Once that inspection is conducted, the IOR will input the disposition into CForms (approved, disapproved, corrections, etc.) and may add photos, documents, etc.
- Results of the inspection is known immediately by those assigned to the project via email.
 Inspectors can also upload photos and other documents and attach them to the inspection file in CForms
- 7. Completed "As-Built" plans of project shall be provided to Inspector of Record (IOR) prior to final inspection signature
- 8. Once the work is completed, request a final inspection and a final inspection will be conducted. If approved, the permit will be signed as approved and complete.

*Access to CForms must be granted by Inspection Group prior to accessing CForms.



SECTION 01 4339 MOCKUPS

PART 1 - GENERAL

SUMMARY 1.1

Α. Section Includes:

- Design and Performance Requirements
- 2. Submittals
- 3. Quality Assurance
- 4. Materials
- Examination
- 6. Construction
- 7. Review and Acceptance
- 8. Maintenance
- 9. Removal and Salvage
- 10. Mockup Schedule
- Mock-ups will be used to demonstrate aesthetic effects and, where indicated, qualities of materials and execution, and to review construction, coordination, interface, testing, and operation of various building components.
 - 1. Construction of a free-standing, on-site, building wall mock-up on site.
 - 2. Representative Residential Unit
 - Additional Material Mock-Ups: As required by the Specifications Sections.

Related Requirements:

1. Review requirements specified in other Sections for materials incorporated into the mock-ups.

1.2 DESIGN AND PERFORMANCE REQUIREMENTS

- A. Design Concept: Wall mock-up is intended to permit verification of workmanship and visual qualities of the final completed installation.
- B. Include, as part of wall mock-up as applicable, required shoring and bracing to support mock-
- C. Mock-ups may be subjected to inspections, but are not intended for formal performance testing unless specified.
- D. Make necessary additions and modifications to the details shown on the Drawings as may be required to comply with specified performance requirements while maintaining the design concept.
- E. Accepted mock-ups shall be used as a visual standard for the final installation and, to the extent tested, performance requirements specified.

1.3 SUBMITTALS

A. General:

- 1. Review all Sections.
- Procedures: In accordance with Section 01 3300, "Submittals."

UCR 2013-03-04 LF Mockups



B. Action Submittals:

 Samples: Initial samples for materials to be incorporated into each mock-up shall be reviewed and approved prior to providing materials for mock-up and mock-up construction. Where actual final finished materials are not available for inclusion in mockup, facsimile materials shall be submitted for approval.

C. Informational Submittals:

- Although a temporary structure, Contractor shall submit documentation that building mock-up has been fabricated to meet structural requirements if requested by governing authorities
- 2. Report of field testing on window elements of mock-up if testing is required.

1.4 QUALITY ASSURANCE

- Mock-up components shall be finished as required for completed installation including selected colors.
- B. Obtain approval from University's Representative of all mock-ups before starting work, fabrication or construction.
- C. Allow in Construction Schedule a minimum of 7 days for initial review and each re-review of each mock-up.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Materials for the mock-up shall be as shown and specified in the Specification Sections.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine site and area established by the University's Representative to receive free standing mock-up and conditions under which mock-up is to be constructed. Deficiencies shall be brought to the attention of the University's Representative and corrected as directed.

3.2 CONSTRUCTION

- A. Mock-ups shall be erected on site within the limits of work at a location to be determined by the University's Representative.
- B. Construct mock-ups as shown on Drawings and in accordance with reviewed submittals, complete with all required fastenings, bracing, and other elements, plumb and true, firmly erected and anchored.
- C. Anchorage and assembly shall conform to code requirements including seismic stability. Retaining a licensed engineer to assure mock-ups meet code requirements is the responsibility of the Contractor.
- D. Coordinate mock-up construction with delivery and assembly of related materials and components to be included in the mock-up.

3.3 REVIEW AND ACCEPTANCE

UCR 2013-03-04 LF Mockups



- Upon completion of mock-up construction, notify University's Representative and make arrangements for review, evaluation, and any testing required by University's Representative.
- Modify mock-ups, or construct new components if requested by University's Representative until final acceptance is obtained.
- Following acceptance, mock-ups shall remain on site and shall be readily identifiable to serve as a visual standard of quality and appearance of the work it represents, including interface with adjacent materials and components.

3.4 **MAINTENANCE**

Maintain mock-ups in a clean condition and as approved by University's Representative.

3.5 REMOVAL AND SALVAGE

- Remove mock-ups prior to completion of Project but not before the work they are being used to judge has been accepted by University's Representative.
- Where appropriate, accepted mock-ups and field samples may be incorporated into the finished work subject to approval of University's Representative.

MOCK-UP SCHEDULE 3.6

- Erect the full-size, representative exterior building wall mock-up as shown on the Drawings. As a minimum, this mock-up shall show the following components and materials.
 - 1. All exterior finish materials included in cement plaster and cladding systems of fiber cement siding, sheet meal panels, and brick veneer.
 - 2. Storefront and single hung windows, including exterior sun control.
 - 3. Underlayments and flashings; reviewed before installation of finish materials and windows.
 - 4. Include, as part of wall mock-up as applicable, required shoring and bracing to support mock up.

Residential Unit: B.

- 1. Typical unit components of kitchen, bath and vanity.
- 2. Kitchen, bath and vanity casework.
- 3. Appliances (actual or dummy)
- Additional Mock-Ups and Field Samples: As specified in other Sections.

END OF SECTION

UCR 2013-03-04 LF Mockups

01 4339-3



SECTION 01 4500 QUALITY CONTROL

PART 1 - GENERAL

1.1 SUMMARY

- Α. This Section includes administrative and procedural requirements for quality-control services, without limitation, the following:
 - Contractor's Responsibilities 1.
 - 2. Tests and Inspections
 - 3. **Test Reports**
 - Geotechnical Engineer and Other Inspection and Testing 4.
 - Repair and Protection
- Quality-control services include inspections, tests, and related actions, including reports B. performed by Contractor, by independent agencies, and by governing authorities. They do not include contract enforcement activities performed by University's Representative.
- C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with Contract Document requirements.
- D. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard products.
 - 1. Specific quality-control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified inspections, tests, and related actions do not limit Contractor's qualitycontrol procedures that facilitate compliance with Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-control services, required by University's Representative, are not limited by provisions of this Section.
- E. Related Sections: The following Sections contain requirements that relate to this Section:
 - Division 1 Section "Cutting and Patching" specifies requirements for repair and 1. restoration of construction disturbed by inspection and testing activities.

1.2 **DEFINITIONS**

- A. The term "University's Testing Laboratory" means a testing laboratory retained and paid for by the University for the purpose of performing the testing services required by the Contract Documents except where specifically noted to be done by contractor, reviewing material and product reports, and performing other services as determined by University's Representative.
- В. The term "Contractor's Testing Laboratory" means a testing laboratory retained and paid for by Contractor to perform the testing services which are required by the Contract Documents to be performed by Contractor. Contractor's Testing Laboratory shall be an organization other than University's Testing Laboratory and shall be acceptable to University's Representative. It may be a commercial testing organization or the testing laboratory of a trade association. Contractor's Testing Laboratory shall have performed testing of the type specified for at least five (5) years and shall maintain a separate General and Professional Liability Insurance, (Errors and Omissions,) in amount not less than one million dollars (\$1,000,000) each.

UCR 2013-03-04 LF **Quality Control**



- C. Tests, inspections, and acceptances of portions of the Work required by the Contract Documents or by Applicable Code Requirements shall be made at the appropriate times. Contractor shall give University's Representative timely notice of when and where tests and inspections are to be made and/or required regardless whose Testing Laboratory will perform the tests and inspections.
- D. If such procedures for testing, inspection, or acceptance reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, Contractor shall bear all costs made necessary by such failure including those of repeated procedures and compensation for University's Representative's services and expenses.
- E. If University's Representative is to observe tests, inspections, or make acceptances required by the Contract Documents, University's Representative will do so promptly upon 3 days advance written notice and, where practicable, at the normal place of testing.
- F. Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

CONTRACTOR'S RESPONSIBILITIES 1.3

- Α. Secure and deliver to Contractor's Testing Laboratory adequate quantities of representative samples of materials proposed for use as specified.
- В. Submit to University's Testing Laboratory the preliminary design mixes proposed to be used for concrete and other materials which require review by University's Testing Laboratory.
- C. Submit copies of product test reports as specified.
- D. Furnish incidental labor and facilities, as required:
 - 1. To provide University's Testing Laboratory access to the Work to be tested.
 - 2. To obtain and handle samples at the Project site or at the source of the product to be tested.
 - 3. To facilitate inspections and tests.
 - For storage and curing of test samples. 4
- Ε. Provide written notice to University's Representative sufficiently in advance (a minimum of 3 days) of operations to allow for University's Testing Laboratory assignment of personnel and scheduling of tests.
- F. When tests or inspections are not performed after such notice, Contractor shall reimburse University for University's Testing Laboratory personnel and travel expenses incurred.

TESTS AND INSPECTIONS 1.4

- A. Certain portions of the Work will be tested, inspected, or both, at various stages. Nothing in any prior acceptance or satisfactory test result shall govern, if at any subsequent time the Work, or portion thereof, is found not to conform to the requirements of the Contract Documents.
- B. If initial tests or inspections made by University's Testing Laboratory's Geotechnical Engineer reveal that any portion of the Work does not comply with Contract Documents, or if University's Representative determines that any portion of the Work requires additional testing or inspection, additional tests and inspections shall be made as directed.
- C. If such additional tests or inspections establish that such portion of the Work fails to comply with the Contract Documents, all costs of such additional tests and inspections, and all

UCR 2013-03-04 LF **Quality Control**



other costs resulting from such failure, including compensation for University's Representative and University Representative's Consultants shall be deducted from the Contract Sum.

D. Fixtures, equipment, materials, and other items removed, demolished, abandoned, or capped and left in place, shall be tested to verify that there is no damage caused after the items have been covered by construction.

1.5 TEST REPORTS

A. University's Testing Laboratory and Contractor's Testing Laboratory shall submit five (5) copies of all reports to University's Representative, indicating observations and results of tests and indicating compliance or non-compliance with the Contract Documents.

1.6 GEOTECHNICAL ENGINEER AND OTHER INSPECTION AND TESTING

A. The University shall retain and pay the expenses of a Geotechnical Engineer and materials testing, inspection and observation services consultant ("TIO Consultant") to perform inspection, testing, and observation functions specified by the University. Geotechnical Engineer and such other TIO Consultant shall communicate only with University and University's Representative. University's Representative shall then give notice to Contractor, with a copy to the University, of any action required of Contractor.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION

- A. General: Upon completion of inspection, testing, sample taking and similar services, repair damaged construction and restore substrates and finishes. Comply with Contract Document requirements for Division 1 Section "Cutting and Patching."
- B. Protect construction exposed by or for quality-control service activities, and protect repaired construction.
- Repair and protection is Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing, or similar services.

END OF SECTION

UCR 2013-03-04 LF Quality Control

01 4500-3



SECTION 01 5500 VEHICULAR ACCESS AND PARKING

PART 1 - GENERAL

1.1. SUMMARY

A. Section includes:

- Temporary Access Roads
- 2. Haul Routes
- 3. Temporary Parking Areas
- 4. Temporary Roads
- 5. Traffic Control
- 6. Staging Areas

B. Submittals:

- 1. Submittals shall be submitted in accordance with Section 01 3300, "Submittals."
 - a. Submit Traffic Control Plan for Project Construction prior to the start of construction activities for approval by University's Representative.
 - Submit Pedestrian Access Plan for Project Construction prior to the start of construction activities for approval by University's Representative.

1.2. TEMPORARY ACCESS ROADS

A. Access shall only be from Martin Luther King Blvd., via two routes to be determined in discussion with Agricultural Operations. The primary route shall be via the main entrance located at 1060 MLK Blvd., the secondary route shall be via the "South Gate" entrance from MKL Blvd., both gates are electronically controlled and require a programmed fob for access during non-business hours, and this shall be arranged with Ag Op's.

1.3. HAUL ROUTES

A. As stated in 1.2.A.

1.4. TEMPORARY PARKING AREAS

- A. Parking: Limited parking for workers employed on the Work may be provided on the Project Site to the extent that space for that purpose is available without interference with activities of University or activities related to performance of the Work. Refer to Section 01 3540 "Environmental Mitigation".
 - 1. All vehicles are required to display a parking permit while parked on campus. Transportation and Parking Services will sell parking permits to contractors, their employees and sub-contractors in parking lots where spaces are currently available for purchase. 2014-15 monthly permit rates are \$40/Gold, \$47/Blue and \$64/Red. All rates are subject to change. Monthly permits are available at the Parking Service Building located at 683 Linden Street. Daily permits can be purchased in the Parking Service Building, at information kiosks at campus entrances, and in posted visitor parking lots. Parking permits are lot specific. All vehicles entering the campus are required to adhere to the University's parking policies and the California Vehicle Code.
 - 2. Contractor may use available space within its Project Site fence limits for parking without a permit.



Provide 3 parking spaces within Contractor's Project Site fence limits for University's Representative and its Consultants use.

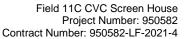
TEMPORARY ROADS 1.5.

A. See 1.2.A

TRAFFIC CONTROL 1.6.

- A. Prior to the start of construction activities, determine the routing of construction vehicles and the measures necessary to control traffic during construction. Provide measures including, but not limited to, the following:
 - 1. Contractor is responsible for controlling construction traffic on and adjacent to the site, including public right-of-ways. Comply with requirements of authorities having jurisdiction for traffic controls in public right-of-ways.
 - a. Provide necessary measures including, but not limited to, flag personnel, barricades, sufficient lights, reflectors, warning signals, warning signs indicating closures, directional, and detour instructions.
 - Route construction equipment, trucks, and similar vehicles through the campus to Big Springs Road and existing public streets to and from the site as approved by the University's Representative and as specified in Section 01 3540 Environmental Mitigation.
 - 3. Schedule deliveries to minimize disruption of University traffic and duration of on-site storage.
- B. Traffic Control Plan for Project Construction.
 - Contractor and all subcontractors shall ensure that the construction site and access road speed limits are established and enforced during the Contract Time until Substantial Completion. Post and enforce traffic speed limits of 15 miles per hour or less on all unpaved roads.
 - Contractor and all subcontractors shall comply with the Traffic Control Plan for project construction prepared by Contractor and approved by University's Representative prior to the commencement of construction activities.
 - 3. To the extent reasonable, Contractor and all subcontractors shall maintain at least one unobstructed lane in both directions on campus roadways. At any time only a single lane is available, Contractor and all subcontractors shall provide a temporary traffic signal, signal carriers (i.e., flag persons), or other appropriate traffic controls, as approved by University's Representative, to allow travel in both directions. If construction activities require the complete closure of a roadway segment, contractor and all subcontractors shall provide appropriate signage indicating alternative routes as approved by University's Representative.
 - 4. To maintain adequate access for emergency vehicles when construction activities would result in roadway closures, Contractor shall give 14-days notice to the University's Representative, so that the University's Representative can consult with the UCPD, EH&S, and Riverside Fire Dept. as appropriate to disclose closures and identify alternative travel routes.
 - The hauling and disposal of any excess clean soil excavated from or already stockpiled on the site will be the responsibility of the contractor to transport and stockpile it at the UCR Ag Ops area located near Lot 13 as directed by the University Representative. Refer to Section 31 2000 Earth Moving for additional information regarding the collection and disposal of unsatisfactory material and debris.
 - All construction traffic will access the Project Site from the west and through the campus. Construction traffic will avoid using Valencia Hill Drive, Watkins Drive and Big Springs

Vehicular Access and Parking UCR 2014-10-14 LF





Road. There are two existing, posted construction traffic warning signs at the corner of Watkins Drive and Valencia Hill Drive which shall remain in place and maintained by the Contractor for the duration of the Project and will be the Contractor's responsibility to remove and dispose of the signs at the completion of the Work.

- C. Pedestrian Access Plan for Project Construction.
 - Contractor and all subcontractors shall comply with the Pedestrian Access Plan for project construction prepared by the Contractor and approved by University's Representative, prior to the commencement of construction activities.

1.7. STAGING AREAS

A. Staging shall be determined in discussion with the University Representatives, and as consistent with the SWPPP and/or as agreed with Ag Op's.

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 5639 TREE AND PLANT PROTECTION

PART 1 - GENERAL

1.1. SUMMARY

- A. Provide all labor, materials, equipment, tools, services and miscellaneous and incidental work to provide all tree and plant protection as indicated on the drawings and as specified including:
 - 1. Quality Assurance.
 - 2. Job Conditions.
 - 3. Guarantee.
 - 4. Protection of Trees and Plants: Protection and welfare of all existing trees and plants within and adjacent to the Contract Limits which are noted to remain, including trimming, cabling, and repair of such and plants as necessary on the Drawings and as specified.
 - 5. Trimming of Trees.
 - 6. Irrigation System: Protection of any existing irrigation system servicing trees and plants to remain.
 - 7. Repair Compensation.
 - 8. Maintenance: Contractor shall submit tree maintenance plan for University's Representative approval.

B. Definitions

- 1. "Injury" is defined, without limitation, as any bruising, scarring, tearing, or breaking of roots, branches, or trunk.
- 2. "Drip line" is defined as the outermost limits of the tree canopy.

1.2. QUALITY ASSURANCE

- A. General Responsibility: The Contractor shall be directly responsible for protection and welfare of existing trees and plants within the Contract Limits which are noted to remain. This responsibility shall continue throughout the full construction period until the entire project is completed and accepted by the University's Representative and through completion of the guarantee period. Completely coordinate with all work.
- B. Qualifications of workmen: Trimming shall be performed only by a licensed arborist. Provide at least one person approved by the University's Representative who shall be present at all times during tree protection and trimming operations, who shall be thoroughly familiar with the type of work involved, and who shall direct all protection and trimming work.
- C. Reference Standards: Published specifications, standards, tests, or recommended methods of trade, industry, or governmental organizations apply to work of this section.
- D. International Society of Arboriculture (ISA) "Guide for Establishing Values of Trees and Other Plants," prepared by the Council of Tree and Landscape Appraisers (CTLA).



E. "Cabling, Bracing and Guying Standards for Shade Trees", as published by the National Arborist Association (NAA), 174 RT 101, Bedford, New Hampshire, 03102.

1.3. JOB CONDITIONS

- A. Prior to performing any work of this Contract, Contractor shall call for a site meeting with the University's Representative and University's Representative's Consultant. This meeting shall occur prior to construction of any nature on site. The purpose of the meeting shall be to establish the conditions of all existing trees to be preserved or relocated upon receipt of the site by the Contractor. Failure to call for said meeting implies acceptance by the Contractor of trees to be preserved in their existing condition.
- B. Sequencing Schedule: Coordinate and cooperate with other trades to enable the work to proceed as rapidly and efficiently as possible.

1.4. GUARANTEE

- A. Contractor shall guarantee that all plants covered by the provisions of this Section will be healthy and in flourishing condition of active growth 1 year from the date of Final Completion.
- B. During the warranty period the Contractor shall be liable for damages to all trees covered by the provisions of this Section and shall pay compensation to the University.
- C. Contractor will not be held responsible for failures due to neglect by the University, vandalism, etc., during the warranty period. Report such conditions to the University's Representative.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 PROTECTION OF TREES AND PLANTS

- A. Water: Provide ample water supply of potable quality and sufficient quantity for all operations required under this Section.
- B. The existing trees to be preserved presently are in excellent condition. Trees and plants shall not be allowed to deteriorate and shall be maintained in a healthy and vigorous condition during the course of construction and maintenance period.
- C. During the course of construction the Contractor shall take all necessary precautions, as outlined herein, to protect the existing trees to be preserved from injury or death. Protection shall be given to the roots, trunk, and foliage of all existing trees to remain.
- D. Trees and plants, subject to the provisions of this Section, which have been injured shall be repaired immediately by an approved, certified arborist. Repair shall include removal of rough edges and sprung bark and severely injured branches as directed by the University's Representative.
- E. Tree protection fencing shall be installed for the protection of existing trees to be preserved. No construction, demolition, or work of any nature will be allowed within the fenced area without prior written approval by the University's Representative.
 - Tree Protection Fence: 8-foot high chain link fence, sturdy and capable of acting as a
 barrier against objects, vehicles, etc., and designed so as to allow for relocations as
 required and shall have gate access to inside for care of tree. It shall be continuously
 maintained and repaired as necessary. Metal shall be galvanized.

Tree and Plant Protection
UCR 2013-02-06 LF
01 5639-2



- 2. Install tree protection fencing around trees to be preserved at a distance required from the base of the trunk to the drip line of the tree. Fencing shall remain until landscape work has commenced, and it shall then be removed as directed by the University's Representative.
- 3. During the course of construction, relocation of the fence may be required to facilitate construction. The Contractor shall do so as directed by the University's Representative at no additional expense to the University.
- 4. Approval by the University's Representative for work within the fenced area shall not release the Contractor from any of the provisions specified herein for the protection of existing trees and plants to be preserved.
- 5. During the course of construction of approved work within the fenced area, no roots larger than two inches in diameter shall be cut without prior written approval by the University's Representative.
- F. During construction the existing site surface drainage patterns shall not be altered within the area of drip line.
- G. Contractor shall not alter the existing water table within area of drip line.
- H. Take necessary measures to maintain healthy living conditions for existing trees and plants to be preserved. Such measures shall include but not be limited to periodic washing of leaves for the removal of dust, irrigation, etc.
- Do not permit the following within drip line of any existing tree to be preserved.
 - 1. Storage or parking of automobiles or other vehicles.
 - 2. Stockpiling of building materials or refuse of excavated materials.
 - Skinning or bruising of bark.
 - 4. Use of trees as support posts, power poles, or signposts; anchorage for ropes, guy wires, or power lines; or other similar functions.
 - 5. Dumping of poisonous materials on or around trees and roots. Such material includes but is not limited to paint, petroleum products, contaminated water, or other deleterious materials.
 - 6. Cutting of tree roots by utility trenching, foundation digging, placement of curbs and trenches, and other miscellaneous excavation without prior written approval by the University's Representative.
 - 7. Damage to trunk, limbs, or foliage caused by maneuvering vehicles or stacking material or equipment too close to the tree.
 - 8. Compaction of the root area by movement of trucks or grading machines; storage of equipment, gravel, earth fill, or construction supplies; etc.
 - 9. Excessive water or heat from equipment, utility line construction, or burning of trash under or near shrubs or trees.
 - 10. Damage to root system from flooding, erosion, and excessive wetting and drying resulting from dewatering and other operations.
- J. Excavation Around Trees and Plants:
 - 1. Excavation within drip lines of trees and plants shall be done only where absolutely necessary.
 - 2. Where trenching for utilities is required within drip lines, tunneling under and around roots shall be by hand digging. Main lateral roots and taproots shall not be cut. Smaller roots that interfere with installation of new work may be cut with prior approval.
 - 3. Where excavation for new construction is required within drip line of trees, hand excavation shall be employed to minimize damage to root system. Roots shall be relocated in backfill areas wherever possible. If large, main lateral roots are encountered, they shall be exposed beyond excavation limits as required to bend and relocate without breaking. If encountered immediately adjacent to location or new

UCR 2013-02-06 LF 01 5639-3



- construction and relocation is not practical, roots shall be cut approximately 6 inches back from new construction.
- 4. Exposed roots shall not be allowed to dry out before permanent backfill is placed. Temporary earth cover shall be provided, or roots shall be packed with wet peat moss or four layers of wet, untreated burlap and temporarily supported and protected from damage until permanently relocated and covered with backfill. The cover over the roots shall be wetted to the point of runoff daily.
- 5. Branching structure shall be thinned in accordance with NAA "Pruning Standards and Practices" to balance loss to root system. Thinning shall not exceed 30 percent of existing branching structure.

3.2 TRIMMING OF TREES

- A. In company with the University's Representative and registered arborist ascertain the limbs and roots which are to be trimmed, and clearly mark them to designate the approved point of cutting.
- B. A consulting arborist, registered by the American Society of Consulting Arborists (ASCA), shall be engaged to direct removal of branches from trees and large shrubs which are to remain if required to clear for new construction.
- C. Dead and damaged trees that are determined by the University's Representative and arborist to be incapable of restoration to normal growth pattern shall be removed.
- D. Cut evenly, using proper tools and skilled workmen, to achieve neat severance with the least possible damage to the tree.
- E. In the case of root cuts, apply wet burlap or other protection, approved as noted herein, to prevent drying out, and maintain in a wet condition as long as necessary for temporary protection.

3.3 IRRIGATION SYSTEM

- A. Protect the existing, temporary irrigation system from damage. Conduct weekly inspections throughout the term of the project to test the irrigation system timers, lines and spray heads and make any repairs and or improvements as necessary to maintain the health of the existing grass and trees. Contractor shall remove any and all trash, debris, tumbleweeds, etc., which may accumulate within the protected areas of the existing landscape areas along Valencia Hill and Big Springs Rd.
- B. Contractor to provide regular lawn mowing and edging of all protected areas inside construction fencing every two weeks.

3.4 REPAIR COMPENSATION

- A. Damage to existing tree crowns or roots over 1-inch in diameter shall be immediately reported to University's Representative in writing, and, at the direction of the University's Representative, repaired immediately at the Contractor's expense by an approved certified arborist.
- B. A certified arborist shall direct repair of trees damaged by construction operations. Repairs shall be made promptly after damage occurs to prevent progressive deterioration of damaged trees.
- C. Any tree to remain which is damaged or destroyed owing to the Contractor's negligence or failure to provide adequate protection shall be compensated for in accordance with the following schedule of values using "tree caliper" method (greatest trunk diameter, measured 18 inches above ground):

UCR 2013-02-06 LF 01 5639-4



- For trees and shrubs with diameters up to and including 6 inches, compensation shall be the actual cost of replacement with item similar in species, size, and shape, including:
 - a. Actual cost of item boxed out of ground.
 - b. Transportation or delivery of boxed item to site.
 - c. Planting and staking.
 - d. Maintenance, including watering, fertilizing, pruning, pest control, and other care to bring replacement to same general condition of original item.
- 2. For trunks up to:

7"\$1	.500
·	,000
·	,500
	,000
11"\$3	,500
	,000
	,500
14"\$5	,000
15" \$5	,500
16"\$6	,000
17"\$6	,500
18" and over, add for each	
caliper inch\$	700

D. Damaged tree limbs or trees which have died as a result of injury during construction shall remain the property of the University and shall remain or be removed by the Contractor as directed by the University's Representative.

3.5 MAINTENANCE

- A. Contractor shall be responsible to perform periodic inspections of existing trees to be preserved and submit written proposals to the University's Representative for additional maintenance work as may be required to ensure the health and general well-being of the trees. Contractor shall retain, at the direction of the University's Representative additional specialists as may be required to perform this work.
- B. Root Hormone: Apply as follows:
 - 1. Construct tree basins at rims or outer edge of the tree box so that applied water will remain on top of the root-ball.
 - 2. Apply root hormone at the rate of 2 ounces of root hormone dissolved in a 2-gallon bucket of water, poured on top of the root-ball and contained thereon by the basin rims. Immediately after root hormone application, fill the tree basin with water and allow it to settle within the soil. Repeat application, fill the tree basin with water and allow it to settle within the soil. Repeat application of water twice.
- C. Mulching: Trees shall be mulched with 1-inch nitrolized fir bark immediately after completion of the root hormone application and its irrigation into the rootball.
- D. Irrigation: During construction the existing trees to be preserved shall, at the direction of the University's Representative, be given deep watering (be irrigated). Quantities and lengths of time are variable and shall depend upon seasonal rainfall.

END OF SECTION



SECTION 01 5700 TEMPORARY CONTROLS

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section Includes:
 - 1. Control of Construction Water
 - 2. Dust Control, Air Pollution, and Odor Control
 - 3. Noise Control
 - 4. Temporary Erosion and Sediment Control (SWPPP)
 - 5. Temporary Environmental Controls
 - 6. Temporary Pest Control
 - 7. Biological Resources
 - 8. Cultural Resources
 - 9. Aesthetics
 - 10. Air Quality

1.2. CONTROL OF CONSTRUCTION WATER

- A. Provide impermeable floor coverings and suitable dams to prevent damage by water used for the Work. Immediately clean up and remove all surplus water and water spilled in non-working areas. Do not allow water to overflow gutters, flood streets or parking lots.
- 1.3. DUST CONTROL, AIR POLLUTION, AND ODOR CONTROL
 - A. The Contractor shall employ measures to prevent the creation of dust, air pollution and odors.
 - Unpaved areas where vehicles are operated shall be periodically wetted down or given an equivalent form of treatment as defined in South Coast Air Quality Management District (SCAQMD) Rule 403 to eliminate dust formation.
 - 2. All volatile liquids including fuels or solvents shall be stored in closed containers.
 - 3. No open burning of debris, lumber or other scrap will be permitted.
 - 4. Equipment shall be maintained in a manner to reduce gaseous emission.
 - 5. Low sulfur fuel shall be used for construction equipment.
 - 6. Stockpiles of excavated materials shall be covered with material approved by University's Representative.
 - 7. Contractor shall provide street sweeping whenever silt from construction site is carried over to adjacent streets.
 - B. Provide measures, including regular watering, necessary to minimize air-borne dust.
 - 1. Exposed surfaces should be watered twice daily.
 - 2. Stockpiles of excavated materials should be covered.
 - 3. A berm shall be erected on the downslope of the project site to prevent silt-laden water from running off site.
 - 4. Trucks carrying excavated materials from the site shall be covered and shall have their tires and undercarriages washed prior to exiting the site as required to remove material that may fall or blow off later.

Temporary Controls 01 5700-1



- 5. Paving of exposed dirt surfaces should be done as quickly as is reasonably possible.
- 6. Streets affected by fugitive dust shall be swept regularly.
- 7. The Contractor shall assign a person to be responsible for monitoring dust levels, reviewing conditions with the University's Representative, and suggesting appropriate additional control measures when required.
- 8. Uncovered soil shall be bound by grass or similar ground cover as soon as is reasonably possible.
- 9. Excavation should not be conducted when surface winds exceed 11 miles per hour.
- 10. Unnecessary idling of construction vehicles and equipment shall be avoided.
- C. All contractors, and overseen by the General Contractor, shall implement dust control measures consistent with South Coast Air management District (SCAQMD) Rule 403 – Fugitive Dust during the construction phases on the project development.
 - 1. Apply water and/or non-toxic chemical soil stabilizers according to manufacturer's specifications to all inactive construction areas (previously graded areas that have been inactive for 10 or more days).
 - 2. Replace ground cover in disturbed areas as quickly as possible.
 - 3. Enclose, cover, water twice daily, or apply approved chemical soil binders to exposed piles with 5 percent or greater silt content.
 - 4. Water active grading sites at least twice daily.
 - 5. Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed over 25 mile per hour over a 30-minute period.
 - All trucks hauling dirt, sand, soil, or other loose material are to be covered or should maintain at least two feet of freeboard (i.e., minimum vertical distance between top of the load and top of the trailer) in accordance with section 23114 of the California Vehicle Code.
 - Sweep streets at the end of the day if visible soil material is carried over to adjacent roads.
 - 8. Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving project site for each trip.
 - 9. Apply water three times daily of chemical soil stabilizers according to manufacturer's specifications to all unpaved parking or staging areas or unpaved road surfaces.

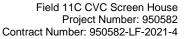
1.4. NOISE CONTROL

A. Noise control shall be maintained by the contractor in all areas of construction, guarding against any undue noise which may impair proper use of existing facilities. Activities with the highest noise potential shall be scheduled for the times when background ambient noise levels are highest (i.e., during peak commute hours). Contractor shall use noise suppressed equipment available and/or shall muffle/control noise on equipment to the maximum extent possible. Noisy construction-related operations (e.g. mixing concrete) shall be accomplished on-site to the extent feasible. Those noisy, construction-related operations shall be performed on those areas of the site furthest from noise sensitive receptors i.e. residence halls, off-site community, etc."

OR

Noise control shall be maintained by the contractor in all areas of construction, guarding against any undue noise, which may impair proper use of existing facilities. Contractor shall use noise

Temporary Controls 01 5700-2





suppressed equipment available and control noise on equipment to the maximum extent possible.

- B. The following noise control procedures shall be employed:
 - Maximum Noise: The Contractor shall use equipment and methods during the course of this work that are least disruptive to adjacent offices or residences. Noise levels for trenchers, graders, trucks and pile drivers shall not exceed 90 dBA at 50 feet as measured under the noisiest operating conditions. For all other equipment, noise levels shall not exceed 85 dBA at 50 feet.

OR

Noise control shall be maintained by the contractor in all areas of construction, guarding against any undue noise, which may impair proper use of existing facilities. Contractor shall use noise suppressed equipment available and control noise on equipment to the maximum extent possible.

2. Equipment: Jack hammers shall be equipped with exhaust mufflers and steel muffling sleeves. All diesel equipment shall have exhaust muffled. Air compressors shall be of a quiet type such as a "whisperized" compressor.

OR

Equipment: Jack hammers shall be equipped with exhaust mufflers and steel muffling sleeves. All diesel equipment shall have exhaust muffled. Air compressors shall be of a quiet type such as a "whisperized" compressor. Require contractors to use the quietest among alternative equipment or to muffle/control noise from available equipment to the maximum extent possible.

AND/OR

Require Mufflers and Other Noise Attenuators on Project Construction Equipment: All contractors, and overseen by the General Contractor, shall ensure that noise-producing construction equipment and vehicles using internal combustion engines will be equipped with mufflers; air-inlet silencers where appropriate; and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors) will be equipped with shrouds and noise-control features that are readily available for that type of equipment. Stationary construction equipment, material and vehicle staging shall be placed to direct noise away from sensitive receptors.

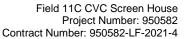
AND OR

Require Use of Electrically Powered Equipment: All contractors, and overseen by the General Contractor, shall ensure that work use electrically powered equipment instead of pneumatic or internal combustion—powered equipment, where feasible.

3. Operations: Machines shall not be left idling. Electric power shall be used in lieu of internal combustion engine power wherever possible. Equipment shall be maintained to reduce noise from vibration, faulty mufflers, or other sources.

OR

Operations: Machines shall not be left idling. Electric power shall be used in lieu of internal combustion engine power wherever possible. Equipment shall be maintained to reduce noise from vibration, faulty mufflers, or other sources.





4. Scheduling: Noisy operations shall be scheduled so as to minimize the disturbance and duration to adjacent neighborhoods and nearby student Housing complexes.

OR

Scheduling: Noisy operations shall be scheduled so as to minimum their disturbance to occupied adjacent areas and duration at any given location. Schedule activities with highest noise potential for times when background ambient noise levels are highest.

- 5. Location: Consider noise sensitive areas around the site when planning locations of operations which cause higher levels of noise, and perform those tasks in less sensitive areas when possible. Schedule work that will generate vibrations, uncontrolled dust, noise levels in excess of 65 dBA, interior- 85 dBA, exterior and potentially hazardous conditions for time periods that are the least disruptive to the University and the surrounding residential neighborhood.
- 6. Use of High Vibration Construction Equipment near Lothian Residence Hall
 - a. All contractors, and overseen by the General Contractor, shall schedule construction activity entailing use of high-vibration generating equipment within 75 feet of Residence Halls during periods when students are not in residence, to the extent feasible.

Prohibit Noise-producing Signals: All contractors, and overseen by the General Contractor, shall prohibit the use of noise-producing signals, including horns, whistles, alarms, and bells, except for safety purposes only. Public address or music systems will also be prohibited.

1.5. TEMPORARY EROSION AND SEDIMENT CONTROL

- A. Exposed earth surfaces shall be watered to minimize dust generation as necessary according to weather conditions.
- B. During winter construction, an erosion and sediment-transport control plan incorporating standard erosion control practices shall be implemented prior to the first day of earth moving activities.
 - Erosion control shall include retaining sediments within project site by the use of catch basins; using interceptor ditches and benches to prevent gullying of slopes; and preparing and implementing erosion control plans.
- C. Storm Water Pollution Prevention Plan (SWPPP):
 - 1. This project has an active SWPPP permit and the university has retained a SWPPP management consultant for this project. The contractor shall take over the contract of the SWPPP consultant for the SWPPP management of the project for the duration of the schedule until substantial completion. Contact David Beckwith, President, David Beckwith & Associates at (714) 349-7007. The details of the SWPPP for Glen Mor 2 and its implementation can be viewed online at the California State Water Resources Board's SMARTS website (type "University of California, Riverside").
 - 2. Refer to Section 01 2100 Allowances for the description of the SWPPP allowance.
 - 3. For additional information see Section 31 1000 "Site Clearing".
 - 4. Protection Against Inclement Weather: Brace, secure, and cover all parts of the Work to prevent damage by inclement weather. Refer to Section 3.9 Storm Water Control for SWPPP information.

Temporary Controls 01 5700-4



5. Protect the Work from damage due to nuisance water such as rainwater, surface runoff, and irrigation water. Comply with requirements of the University's Representative regarding routing and disposal of nuisance water.

D. Storm Water Control

- 1. This project already has an open SWPPP permit on file. Refer to Section 01 1400 "Contractor's Use of the Project Site" for more detailed SWPPP information.
 - a. Provide engineering, drawings, etc., to meet the requirements.
- 2. Erect berm and other appropriate measures to prevent water from running off site and staging area.
- 3. Erect berm and other appropriate measures to prevent water from entering the site and staging area.
- Temporary Storm Water Pollution Control: Provide earthen embankments and similar barriers in and around excavations and subgrade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.

1.6. TEMPORARY ENVIRONMENTAL CONTROLS

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways, and subsoil might be contaminated or polluted or that other undesirable effects might result. Avoid use of tools and equipment that produce levels of harmful noise. Restrict use of noise-making tools and equipment to hours that will minimize complaints from persons or firms near the site.
- B. See also Section 01 3543, Environmental Procedures.

1.7. TEMPORARY PEST CONTROL - NOT USED

1.8. BIOLOGICAL RESOURCES

- A. Pre-Construction Surveys for Burrowing Owls will be conducted (by University representatives) not more than 30 days prior to ground disturbance and/or construction related activities. No ground disturbance and/or construction related activities shall begin until survey complete and any avoidance measures identified and implemented.
- B. Pre-Construction Nesting Bird Surveys will be conducted (by University representatives) within a maximum of 7 days prior to initiation of ground disturbance activities when vegetation removal will occur between February 15 and September 15. No ground disturbance activities shall occur until survey complete and any avoidance measures identified and implemented.
 - Prior to initiation of ground disturbance activities, disturbance limits adjacent to or within the Arroyo shall be clearly staked by University representatives, including disturbance limits associated with Arroyo improvements. Access to the Arroyo shall be limited to existing roads and shall be fenced to ensure unnecessary encroachment to the Arroyo does not occur.
- C. Minimize Temporary Impacts



- Biological Resources to be avoided during construction, include identified California Dept.
 of Fish and Game (CDFG) jurisdictional streambeds and riparian habitats, and shall be
 avoided if practicable. No impacts on the Arroyo shall occur outside of staked disturbance
 limits.
- 2. At a minimum, the following areas shall be avoided:
 - Riparian vegetation adjacent to the path/culvert removal.
 - b. Riparian vegetation located at the northwest side of the south abutment temporary work area for Bridge 2.
 - c. CDFG jurisdictional streambed located on the south side of the bank re-contouring area.
 - d. The mature cottonwood tree near the Valencia Hill culvert extension work limit.
 - (1) The following measures will be implemented to minimize disturbance to the cottonwood tree at the Valencia Hill culvert work area:
 - (2) Establishment and demarcation of a tree protection zone. This should be accomplished under the guidance of an International Society of Arboriculture (ISA) certified arborist and employ a protective barrier consisting of 3-foot- high orange construction fencing. The preferred protection zone shall encompass a buffer of 5 feet beyond the drip line, or 15 feet from trunks, whichever is greater. Where the proposed improvements extend into the preferred protection zone, placement of the protective barrier shall minimize encroachment into the preferred protection zone to the maximum extent practical.
 - (3) Pruning of tree roots, limbs and canopy prior to start of construction, under the guidance of an ISA certified arborist and in accordance with ISA pruning standards (for instance, cuts made clean and to the bark collar of the closest joint on the branch). Pruning should occur during the dormant period (approximately November to March).
 - (4) Construction of the Valencia Hill culvert extension shall be monitored by an ISA certified arborist. The arborist may require implementation of best management practices to minimize disturbance within the work limits, including but not limited to padding of vehicles, minimizing soil removal or addition, and use of protective matting.
 - (5) Upon completion of construction, the tree shall be evaluated by an ISA certified arborist. Evaluations shall occur quarterly for one full year to monitor for signs of failure (including canopy dieback, reduced size or number of leaves, premature fall color). If in the opinion of the arborist, the tree is not showing signs of failure, it shall be determined that the avoidance measures have been successful and no further action shall be required.
 - (6) If post-construction monitoring indicates the tree has failed, the measures provided for below shall be implemented to replace the lost functions and values:
 - (7) In the event the mature cottonwood tree at the Valencia Hill culvert extension is determined to have failed the re-vegetation plan shall include the following measures to replace the lost functions and values:

Temporary Controls 01 5700-6



- (8) Replacement planting of three coast live oaks on the upper bank within the removed canopy area. Replacement trees shall be at least 6 inch caliper and 10 feet in height.
- (9) Replacement planting of Fremont's cottonwood (15 gallon minimum) along the stream channel within the area immediately downstream of the extended culvert. The total number of replacement trees (live oak and cottonwood) shall provide a minimum 1:1 replacement ratio based on the 85-inch diameter at breast height (DBH) measurement of the existing cottonwood tree. It is expected compliance with this measure would require planting of approximately 25 to 30 cottonwood trees.
- e. To reduce disturbance of Natural and Naturalistic Open Space areas:
 - (1) Unnecessary driving in sensitive or otherwise undisturbed areas shall be avoided. New roads or construction access roads would not be created where adequate access already exists.
 - (2) Removal of native shrub or brush shall be avoided, except where necessary.
 - (3) Drainages shall be avoided, except where required for construction. Limit activity to crossing drainages rather than using the lengths of drainage courses for access.
 - (4) Excess fill or construction waste shall not be dumped in washes.
 - (5) Vehicles or other equipment shall not be parked in washes or other drainages.
 - (6) Overwatering shall be avoided in washes and other drainages.
 - (7) Wildlife including species such as fox, coyote, snakes, etc. shall not be harassed. Harassment includes shooting, throwing rocks, etc.

D. Worker Education Program

 All contractors, and overseen by the General Contractor, shall participate in a worker education program for all construction personnel prior to personnel initiating ground disturbance activities, which will include a discussion of the importance of the Arroyo and areas within the Arroyo to be avoided (including parking and staging of equipment), a discussion of native wildlife with the potential to occur, and education on not harassing native wildlife.

E. Biological Monitoring During Construction

 All contractors, and overseen by the General Contractor, shall cooperate with and follow required direction from the qualified biologist who shall monitor the project for compliance with best management practices.

F. Exotic species



Any exotic species removed shall be properly handled to prevent sprouting or re-growth.
Construction equipment shall be cleaned of mud or other debris that may contain invasive
plants and/or seeds and inspected to reduce the potential of spreading noxious weeds
before mobilizing to the work of construction. Cleaning of any equipment shall occur at
least 300 feet from the Arroyo area and before leaving the work area during the course of
construction.

1.9. CULTURAL RESOURCES

A. Protection and Recovery of Buried Artifacts

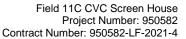
- 1. If an archaeological resource is discovered during construction, all soil-disturbing work within 100 feet of the find shall cease and the University Representative shall be notified and shall contact a qualified archaeologist within 24 hours of discovery to inspect the site. If a resource within the project area of potential effect is determined to qualify as a unique archaeological resource (as defined by CEQA), the University shall devote adequate time and funding to salvage the material. Any archaeologically important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of finding that meets professional standards.
- 2. In the event of the discovery of a burial, human bone, or suspected human bone, all excavation or grading in the vicinity of the find shall halt immediately and the area of the find shall be protected and the University immediately shall notify the Riverside County Coroner of the find and comply with the provisions of P.R.C. Section 5097 with respect to Native American involvement, burial treatment, and re-burial, if necessary.

1.10. AESTHETICS

A. Strict adherence to the approved Detailed Planting Plans to Maintain Existing View Corridors.

1.11. AIR QUALITY

- A. All construction vehicles and equipment containing an internal combustion engine and operating on the project site shall meet EPA-certified Tier 2 emission standards or higher. Contractor shall maintain on-going verification records of equipment certification as new equipment is delivered to the site for University Representatives to review for compliance.
- B. Low NOx diesel fuel and construction equipment shall be used to the extent that is readily available at the time of construction. Contractor shall maintain on-going, updated records for University Representatives to review for compliance.
- C. The following Air Quality reduction procedures shall be implemented throughout the construction process:
 - a. Compliance with all SCAQMD rules and regulations.
 - b. Maintenance programs to assure vehicles remain in good operating condition.
 - c. Avoid unnecessary idling of construction vehicles and equipment.
 - d. Use of alternative fuel vehicles.
 - e. Provision of electrical power to site to eliminate the need for on-site generators.
- D. All off-road equipment operating on project site, as well as on-road heavy-duty vehicles (including hauling and material delivery trucks) traveling to and from the project site will be fitted





with an oxides catalyst. Contractor shall maintain on-going verification records of equipment certification as equipment is delivered to the site for University Representatives to review for compliance.

- E. Limited on-campus parking outside the project site boundaries will be made available for construction workers. The University will provide contractors' workers with limited, free, on-campus parking in a designated portion of Lot 13 across Big Springs Rd from the project site.
 - Confine parking to the construction site or specifically designated areas of Lot 13. Vehicles
 parked elsewhere are subject to Campus parking fees or fines. Campus parking permits
 are available through Parking Services of \$56.00 per month (check with Parking Services
 for daily and weekly rates) per vehicle. Rate is subject to change.
 - 2. Contractor may use available space within its Project fence limits for parking without a permit.
 - 3. Provide 3 parking spaces within the staging area for University's Representative and its Consultants use.

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 6000 PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes administrative and procedural requirements governing the Contractor's selection of products for use in the Project:
 - 1. Quality Assurance
 - 2. Product Delivery, Storage, and Handling
 - 3. Product Selection
 - 4. Product Installation
- B. Definitions: The Definitions used in this Article are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and similar terms. Such terms are self-explanatory and have well-recognized meanings in the construction industry.
 - 1. "Products" are items purchased for incorporation in the Work, whether purchased for the Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - a. "Named Products" are items identified by the manufacturer's product name, including make or model number or other designation, shown or listed in the manufacturer's published product literature that is current as of the date of the Contract Documents.
 - b. "Foreign Products," as distinguished from "domestic products," are items substantially manufactured (50 percent or more of value) outside the United States and its possessions. Products produced or supplied by entities substantially owned (more than 50 percent) by persons who are not citizens of, nor living within, the United States and its possessions are also considered to be foreign products.
 - 2. "Materials" are products substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the Work.
 - 3. "Equipment" is a product with operational parts, whether motorized or manually operated, that requires service connections, such as wiring or piping.

1.2. QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same kind from a single source.
- B. Compatibility of Options: When the Contractor is given the option of selecting between 2 or more products for use on the Project, the product selected shall be compatible with products previously selected, even if previously selected products were also options.
 - Each prime contractor is responsible for providing products and construction methods that are compatible with products and construction methods of other prime or separate contractors.
 - 2. If a dispute arises between prime contractors over concurrently selectable, but incompatible products, the University's Representative will determine which products shall be retained and which are incompatible and must be replaced.

Product Requirements
UCR 2013-02-26 LF 01 6000-1



- C. Foreign Product Limitations: Except under one or more of the following conditions, provide domestic products, not foreign products, for inclusion in the Work:
 - 1. No available domestic product complies with the Contract Documents.
 - 2. Domestic products that comply with the Contract Documents are available only at prices or terms substantially higher than foreign products that comply with the Contract Documents.
- D. Nameplates: Except for required labels and operating data, do not attach or imprint manufacturer's or producer's nameplates or trademarks on exposed surfaces of products that will be exposed to view in occupied spaces or on the exterior.
 - 1. Labels: Locate required product labels and stamps on concealed surfaces or, where required for observation after installation, on accessible surfaces that are not conspicuous.
 - Equipment Nameplates: Provide a permanent nameplate on each item of serviceconnected or power-operated equipment. Locate on an easily accessible surface that is inconspicuous in occupied spaces. The nameplate shall contain the following information and other essential operating data:
 - a. Name of product and manufacturer.
 - b. Model and serial number.
 - c. Capacity.
 - d. Speed.
 - e. Ratings.
 - 3. UL Label: Provide products bearing appropriate UL label as indicated.

1.3. PRODUCT DELIVERY, STORAGE, AND HANDLING

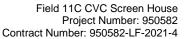
A. Refer to Section 01 5200, Paragraph 1.5.

PART 2 - PRODUCTS

2.1. PRODUCT SELECTION

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, new at the time of installation, except where salvaged materials are indicated.
 - Provide products complete with accessories, trim, finish, safety guards, and other devices and details needed for a complete installation and the intended use and effect.
 - 2. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.
- B. Product Selection Procedures: The Contract Documents and governing regulations govern product selection. Procedures governing product selection include the following:
 - Nonproprietary Specifications: When Specifications list products or manufacturers
 that are available and may be incorporated in the Work, but do not restrict the
 Contractor to use of these products only, the Contractor may propose any available
 product that complies with Contract requirements. Comply with Contract

Product Requirements
UCR 2013-02-26 LF 01 6000-2





Document provisions concerning "substitutions" to obtain approval for use of an unnamed product.

- 2. Compliance with Standards, Codes, and Regulations: Where Specifications only require compliance with an imposed code, standard, or regulation, select a product that complies with the standards, codes, or regulations specified.
- Visual Matching: Where Specifications require matching an established Sample, the University Representative's decision will be final on whether a proposed product matches satisfactorily.
 - a. Where no product available within the specified category matches satisfactorily and complies with other specified requirements, comply with provisions of the Contract Documents concerning "substitutions" for selection of a matching product in another product category.
- 4. Visual Selection: Where specified product requirements include the phrase "...as selected from manufacturer's standard colors, patterns, textures..." or a similar phrase, select a product and manufacturer that complies with other specified requirements. The University's Representative will select the color, pattern, and texture from the product line selected.

PART 3 - EXECUTION

3.1 PRODUCT INSTALLATION

- A. Comply with manufacturer's instructions and recommendations for installation of products in the applications indicated. Anchor each product securely in place, accurately located and aligned with other Work.
 - 1. Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

END OF SECTION

Product Requirements UCR 2013-02-26 LF 01 6000-3



SECTION 01 7123 FIELD ENGINEERING

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section specifies administrative and procedural requirements for field-engineering services including, but not limited to, the following:
 - 1. Surveys, Lines, and Levels Examination.
 - 2. Surveys, Lines, and Levels Performance.

PART 2 – PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Identification: The University's Design Professional or its designee will identify existing control points including horizontal and vertical control points.
- B. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmarks, before proceeding to lay out the Work. Locate and protect existing benchmarks and control points. Preserve permanent reference points during construction.
 - 1. Do not change or relocate benchmarks or control points without prior written approval. Promptly report lost and destroyed reference points or requirements to relocate reference points because of necessary changes in grades or locations.
 - 2. Promptly replace lost or destroyed Project control points. Base replacements on the original survey control points.
- C. Establish and maintain a minimum of 2 permanent benchmarks on the site, referenced to data established by survey control points.
 - Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
- D. Existing Utilities and Equipment: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning site work Contractor shall employ and pay for underground utilities service company to investigate and verify the existence and location of all underground utilities and other construction.
 - 1. Prior to construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping.
 - The Drawings show, if applicable, existing above and below grade structures, drainage lines, storm drains, sewers, water, gas, electrical, hot water and other utilities, which are known to the University.
 - 3. Existing installations shall be kept in service where possible and damage to them shall be repaired with no adjustment of Contract Sum.
 - 4. If any other structures or utilities are encountered, request University's Representative to provide direction on how to proceed with the Work.



- 5. If any structure or utility is damaged, take appropriate action to ensure the safety of persons and property. Repair damage and restore utility to service at no cost to the University.
- 6. Obtain University Representative approval at least 30 days prior to any service shutdown or cutover. All utility shut downs shall be kept to a minimum. Contractor shall coordinate for all shut downs to occur during weekend hours without change to the contract sum. Identify date, time and expected duration (no more than 8 hours duration) of all utility shutdowns. There will be no shut downs for sewer services, must do bypass.

3.2 PERFORMANCE

- A. Work from lines and levels established by the property survey. Establish benchmarks and markers to set lines and levels at each story of construction and elsewhere as needed to locate each element of the Project. Calculate and measure required dimensions within indicated or recognized tolerances. Do not scale Drawings to determine dimensions.
 - Advise entities engaged in construction activities of marked lines and levels provided for their use.
 - 2. As construction proceeds, check every major element for line, level, plumb, movement, settlement, or other damage.
- B. Site Improvements: Locate and lay out site improvements, including pavements, stakes for grading, fill and topsoil placement, utility slopes, and invert elevations.
- C. Existing Utilities: Furnish information necessary to adjust, move, or relocate existing structures, utility poles, lines, services, or other appurtenances located in or affected by construction. Coordinate with, and obtain required approvals from University's Representative.

END OF SECTION



SECTION 01 7400 CLEANING AND WASTE MANAGEMENT

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes:
 - 1. Progress Cleaning and Site Maintenance
 - 2. Construction Waste Management and Disposal
 - Final Cleaning
 - 4. Contractor C&D Waste Monitoring Form and Green Waste Monitoring Form, copies of which are attached at the end of this Section.
- B. Cleaning Agents: Use cleaning materials and agents recommended by the manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
- C. Environmental Requirements: Conduct cleaning and waste-disposal operations in compliance with local laws and ordinances. Comply fully with federal and local environmental and antipollution regulations.
 - 1. Do not dispose of volatile wastes, such as mineral spirits, oil, or paint thinner, in streams, storm or sanitary drains.
 - 2. Burning or burying of debris, rubbish, or other waste material on the premises is not permitted.
 - 3. Comply with requirements of Southern California Air Quality Management District in effect at the time of construction.
 - 4. Comply with governing regulations and safety standards for cleaning operations. Remove waste materials from the site and dispose of lawfully.
- D. Submittal: Prior to requesting inspection for Substantial Completion and Final Completion, submit written certification to the University's Representative that final cleaning has been performed in accordance with the Contract Documents.

1.2. PROGRESS CLEANING AND SITE MAINTENANCE

- A. Collection and Disposal of Waste: Contractor shall furnish all labor, equipment, containers, transportation, materials, supplies and related expenses to provide the University with comprehensive waste collection and waste recycling services for the Project. Contractor shall collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 degrees F (27 degrees C). Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly.
 - Do not burn waste materials. Do not bury debris or excess materials on the University's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems or streams. Remove waste materials from the site and dispose of lawfully.
 - 2. Where extra materials of value remain after completion of associated Work, they become the University's property. Dispose of these materials as directed by the University's Representative.

UCR 2014-09-08 LF 01 7400-1



- 3. Provide on-site containers for collection of waste materials, debris, and rubbish, and empty at least weekly. Maintain containers in such condition so as to ensure they are clean and sanitary, to prevent odor and insect infestation, and ensure no unsightly presentation. Perform maintenance on the containers as required to ensure proper function for the intended purpose.
- 4. Handle waste materials in a controlled manner. Do not drop or throw materials from heights.
- 5. Remove combustible debris from the building daily and store in covered, non-combustible containers located not less than 40 feet from any building.
- B. Cleaning During Construction Period: Comply with regulations of the University and safety standards for cleaning.
 - 1. Schedule cleaning operations so that dust and other contaminants resulting from cleaning operations will not settle on wet paint, or other coatings or finishes during their cure period.
 - 2. Comply with manufacturer's instructions for cleaning the surfaces and parts of finishes and equipment. Use only those cleaning materials and procedures recommended by the manufacturer of the item to be cleaned.
 - 3. Provide cleaning during construction as necessary to ensure operations can proceed on schedule and that finish materials can be installed properly and viewed for determination of aesthetic characteristics.

1.3. CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

- A. The University has established that this Project shall generate the least amount of waste possible and that processes that ensure the generation of as little waste as possible shall be employed to enable the University to meet a minimum 95% percent diversion of construction and demolition (C&D) waste (including green waste) from the landfill.
- B. Contractor shall be responsible for monitoring and maintaining a written log using the C&D Waste Monitoring Form and Green Waste Monitoring Form, copies of which are attached at the end of this Section, to report when actual container deliveries and waste pickups occur, the types of C&D waste material included, weight of each type (in Tons) diverted or landfilled and total percentage of waste diverted from landfill, and any other data required to be reported on the respective forms. Contractor shall submit completed forms with the required data to University's Representative, or designee, with each Application for Payment. Such written information shall be used as backup to support payment of Contractor's scheduled value for Division 1, General Requirements.
- C. C&D waste is a combination of concrete, lumber, plaster, cardboard, glass, various metals, paper, PVC, ABS, HDPE, PP, PDPE, PET, white foam, paint buckets, carpet, green waste, and dirt.
 - C&D waste accepted for recycling:
 - a. Card Board.
 - b. Mixed metals.
 - c. PVC Pipe.
 - d. ABS Pipe.
 - e. H.D.P.E. Pipe.
 - f. Carpet.
 - g. Carpet Pad.
 - h. Mixed Plastics.
 - i. Glass.

UCR 2014-09-08 LF Cleaning and Waste Management 01 7400-2

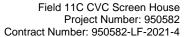


- j. Bottles & Cans CRV.
- k. H.D.P.E Plastics.
- I. H.D.P.E Pipe.
- m. Foam White.
- n. Paper Mixed.
- o. Plastic Buckets Paint (empty) & Landscapers.
- p. Drywall.
- q. Wood.
- r. Particle Board.
- s. Green Waste:
 - (1) Green Waste refers to waste resulting from removal of vegetation; it is a combination of brush, branches, leaves, flowers, shrubs and small trees and other items listed on the Green Waste Monitoring Form.
 - (2) Green Waste accepted for recycling and/or compost:
 - (a) Grass Clippings.
 - (b) Trees Tree trunks shall be cut into 4' and 10" pieces.
 - (c) Branches Branches shall be cut into 4' and 10" pieces.
 - (d) Tree Trimmings All other material other than trunks, branches, and leaves.
 - (e) Wood.
 - (f) Mulch.
 - (g) Brush.
 - (h) Leaves.
 - (i) Flowers.
 - (j) Shrubs.
 - (k) Palm Fronds.
- t. Inert Material Soil, Asphalt, Brick, Concrete

1.4. FINAL CLEANING

- A. This Section includes the administrative and procedural requirements for final cleaning at Substantial Completion and Final Inspection.
- B. Provide final-cleaning operations when indicated. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit of Work to the condition expected from a commercial cleaning and maintenance program. Comply with manufacturer's instructions.
- Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for the entire Project or a portion of the Project.
 - 1. Clean the Project Site, yard and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and foreign substances.
 - 2. Sweep paved areas broom clean. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - 3. Remove petrochemical spills, stains, and other foreign deposits.
 - Remove tools, construction equipment, machinery, and surplus material from the site.
 - 5. Remove snow and ice, if any, to provide safe access to the building.
 - Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural

Cleaning and Waste Management UCR 2014-09-08 LF 01 7400-3





weathering of exterior surfaces. Restore reflective surfaces to their original condition.

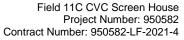
- 7. Remove debris and surface dust from limited access spaces, including trenches, equipment vaults, manholes and similar spaces.
- 8. Broom clean concrete floors in unoccupied spaces.
- 9. Remove labels that are not permanent labels.
- Touch up and otherwise repair and restore marred, exposed finishes and surfaces.
 Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
- 11. Wipe surfaces of electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- 12. Remove grease, dust, dirt, stains, and other marks from surfaces exposed-to-view.
- Leave the Project clean.
- D. Pest Control: Engage an experienced, licensed exterminator to make a final inspection and rid the Project of rodents, insects, and other pests. Comply with regulations of local authorities.
- E. Removal of Protection: Remove temporary protection and facilities installed during construction to protect previously completed installations during the remainder of the construction period.
- F. Where extra materials of value remain after completion of associated Work, they become the University's property. Dispose of these materials as directed by the University's Representative at no additional cost to the University.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

UCR 2014-09-08 LF Cleaning and Waste Management 01 7400-4





Project Name & No.:

Contractor C&D Waste Monitoring Form

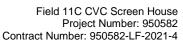
Contractor:														
Prepared by:														
				Bin Makeup: Recycled or Landfill Materials (Provide quantity of each in Tons.)										
Date/Time of Pick up	Size of Bin	R/L ¹	Concrete	Metals	Wood	Glass	Clay/Brick		Gypsum	Paint	Insulation	Green Waste ²	Dirt ²	Other

Total C&D Waste to Landfill: % of C&D Waste Recycled:

Column Totals:

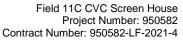
¹ Indicate whether R=Recycled or L=Landfill.

² For waste diversion numbers, Green Waste and dirt are not included. Complete Green Waste Monitoring Form.





LEFT BLANK INTENTIONALLY





Contractor Green Waste Monitoring Form

Project Name & No.:														
Contractor:														
Prepared by:														
			Bin Makeup: Recycled or Landfill Materials (Provide quantity of each in Tons.)											
Date/Time of Pick up	Size of Bin	R/L ¹	Grass Clippings	Small Tree	Tree Trunks	Branches	Tree Trimmings	Wood	Mulch	Brush	Leaves	Flowers	Shrubs	Palm Fronds

Total Green Waste to Landfill:

Column Totals:

[%] of Green Waste Recycled: ¹ Indicate whether R=Recycled or L=Landfill.



SECTION 01 7700 CONTRACT CLOSEOUT

PART 1 - GENERAL

1.1. SUMMARY

- Α. This Section includes administrative and procedural requirements for contract closeout including, but not limited to, the following:
 - **Substantial Completion** 1.
 - 2. Final Inspection Acceptance
 - 3. Closeout Procedures
 - Instruction and Evaluation of University's Personnel 4.
 - 5. Training Tools and Materials
 - Qualifications of Instructors 6.
 - Operation and Maintenance Manuals and Instructions 7.
 - Spare Parts and Extra Stock Materials 8.
 - Warranties 9.
- B. Closeout requirements for specific construction activities are included in the appropriate Sections in Divisions 2 through 33.

1.2. SUBSTANTIAL COMPLETION

UCR 2014-02-11 LF

- A. Preliminary Procedures: Before requesting inspection for certification of Substantial Completion, complete the following. List exceptions in the request.
 - 1. In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the portion of the Work claimed as substantially complete.
 - Include supporting documentation for completion as indicated in these Contract Documents and a statement showing an accounting of changes to the Contract Sum.
 - If 100 percent completion cannot be shown, include a list of incomplete b. items, the value of incomplete construction, and reasons the Work is not complete.
 - Advise the University of pending insurance changeover requirements. 2.
 - 3. Submit specific warranties, workmanship bonds, maintenance and service agreements, final certifications, and similar documents.
 - Obtain and submit releases enabling the University unrestricted use of the Work 4. and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - Submit record drawings, operation and maintenance manuals, final project 5. photographs, damage or settlement surveys, property surveys, and similar final record information.
 - Deliver tools, spare parts, extra stock, and similar items. 6.
 - Make final changeover of permanent locks and transmit keys and key schedule to 7. the University. Advise the University's personnel of changeover in security provisions.
 - 8. Complete startup testing of systems and instruction of the University's operation and maintenance personnel. Discontinue and remove temporary facilities from the site, along with mockups, construction tools, and similar elements.
 - Complete final cleanup requirements, including touchup painting. 9.
 - Touch up and otherwise repair and restore marred, exposed finishes. 10.
 - Adjust and balance all systems and adjust all valves. 11.
 - Check fluid and gas carrying pipe systems, roofs, flashings, gutters, and 12.

Contract Closeout 01 7700-1



- downspouts for leaks. Repair or replace as necessary.
- 13. Lubricate all moving parts of machinery and equipment as recommended by the manufacturers of the machinery and equipment.
- 14. Submit certification required in Section 01 7400 for "Final Cleaning."
- B. Inspection Procedures: On receipt of a request for inspection, the University's Representative will either proceed with inspection or advise the Contractor of incomplete or incorrect work. The University's Representative will prepare the Punchlist following inspection or advise the Contractor of what must be completed or corrected before the certificate will be issued.
 - 1. The University's Representative will repeat inspection when requested and assured that the Work is substantially complete.
 - 2. Results of the completed inspection will form the basis of requirements for final acceptance.
 - Allow 3 weeks for the University's Representative to prepare the list of items to be corrected.

1.3. FINAL INSPECTION ACCEPTANCE

- A. Preliminary Procedures: Before requesting final inspection for certification of final acceptance and final payment, complete the following. List exceptions in the request.
 - 1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include insurance certificates for products and completed operations where required.
 - Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 - 3. Submit a certified copy of the University Representative's final inspection list of items to be completed or corrected, endorsed and dated by the University's Representative. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance and shall be endorsed and dated by the University's Representative.
 - 4. Submit final meter readings for utilities, a measured record of stored fuel, and similar data as of the date of Substantial Completion or when the University took possession of and assumed responsibility for corresponding elements of the Work.
 - 5. Submit consent of surety to final payment.
 - 6. Submit a final liquidated damages settlement statement.
 - 7. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 - 8. Completed Punchlist.
- B. Reinspection Procedure: The University's Representative will reinspect the Work upon receipt of notice that the Work, including inspection list items from earlier inspections, has been completed, except for items whose completion is delayed under circumstances acceptable to the University's Representative.
 - 1. Upon completion of reinspection, the University's Representative will prepare a certificate of final acceptance. If the Work is incomplete, the University's Representative will advise the Contractor of Work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.
 - If necessary, reinspection will be repeated and related costs of University's Representative and University Representative's Consultants will be deducted from final retention payment.

PART 2 – PRODUCTS (Not Applicable)

PART 3 - EXECUTION



3.1 CLOSEOUT PROCEDURES

- A. Operation and Maintenance Instructions: Arrange for each Installer of equipment that requires regular maintenance to meet with the University's personnel to provide instruction in proper operation and maintenance. Provide instruction by manufacturer's representatives if installers are not experienced in operation and maintenance procedures. Include a detailed review of the following items:
 - 1. Operation and Maintenance manuals.
 - As-Built documents.
 - 3. Spare parts and materials.
 - 4. Tools.
 - Lubricants.
 - 6. Fuels.
 - 7. Identification systems.
 - 8. Control sequences.
 - 9. Hazards.
 - 10. Cleaning.
 - 11. Warranties and bonds.
 - 12. Maintenance agreements and similar continuing commitments.
- B. As part of instruction for operating equipment, demonstrate the following procedures:
 - 1. Startup.
 - 2. Shutdown.
 - 3. Emergency operations.
 - 4. Noise and vibration adjustments.
 - 5. Safety procedures.
 - Economy and efficiency adjustments.
 - 7. Effective energy utilization.

3.2 INSTRUCTION AND EVALUATION OF UNIVERSITY'S PERSONNEL

- A. Perform hands-on demonstrations and instruction for University's designated personnel in the operation, adjustment and maintenance of products, equipment, and systems, as required and at agreed upon times.
- B. Instruction Before Final Inspection: Before Final Inspection, and after work under this contract is completed, tested and prior to acceptance by the University; and not less than five (5) days after submittal of the Operation and Maintenance Data, operate all the systems for a period of three (3) 8-hour periods during which time a qualified factory trained representative familiar with the items installed shall instruct and supervise the University's Personnel in the operation and maintenance of the equipment and systems. This instruction period is in addition and subsequent to any period of operation, testing and adjustment called for elsewhere in these specifications.
- C. Instruction by Manufacturer's Representatives: Any instructions from manufacturer's representatives required under other sections of this specification shall be conducted during this period. This instruction period shall be conducted after completion of all piping and equipment labeling required by the Contract.
- D. Time of Instructions: Make all arrangements and notices for operation and instruction periods though the University's Representative.
- E. Seasonal Operation: For equipment requiring seasonal operation, perform demonstrations and instructions for each required season and at agreed upon times.
- F. Evaluation: During and after demonstrations and instructions for University's designated personnel, evaluate their ability to perform the necessary maintenance and operation



functions required to properly operate and maintain each piece of equipment. Make sure that at the end of the training session, the University's designated personnel are reasonably proficient in the operations and maintenance of products, systems, and equipment.

3.3 TRAINING TOOLS AND MATERIALS

- A. Use operation and maintenance manuals as basis for instruction. Review contents of manual with personnel in detail to explain all aspects of operation and maintenance. For all systems requiring operation and maintenance training from factory representative, written authorization from the University is required. All systems of more than one manufacturer, a factory representative from each will be required.
- B. Prepare and insert additional data in Operation and Maintenance Manual when need for such data becomes apparent during instruction.

3.4 QUALIFICATIONS OF INSTRUCTORS

A. Instructions for the University's Personnel. For instruction of the University's operating and maintenance personnel, use experienced instructors thoroughly trained and experienced in the operation and maintenance of the building equipment or system involved.

3.5 OPERATION AND MAINTENANCE MANUALS AND INSTRUCTIONS

A. Assemble and furnish a minimum of 3 complete sets (unless otherwise indicated in a specific section) of all mechanical and electrical systems data, except that noted to be mounted in frames, in three-ring loose-leaf binders, complete with index, with indexed dividers permanently attached and exterior labels on cover and back of binders.

B. Data Required:

- Manufacturers' Manuals: Provide complete installation, operation, maintenance, and service manuals and printed instructions and parts lists for all materials and equipment, where such printed matter is regularly available from the manufacturer. This includes but is not limited to such service manuals as may be sold by the manufacturer covering the operation and maintenance of items, and complete replacement parts lists sufficiently detailed for parts replacement ordering to manufacturer. Bound publications need not be assembled in binders.
- 2. Equipment Nameplate Data: A typewritten list of all mechanical and electrical equipment showing all equipment nameplate data exactly. Identify equipment by means of names, symbols, and numbers used in the Contract Documents.
- 3. System Operating Instructions: Typewritten instructions covering operation of the entire system as installed (not duplicating manufacturers' instructions for operating individual components). Include schematic flow and control diagrams as appropriate and show, locate, or list system valves, control-elements, and equipment components using identification symbols and numbers. List rooms, area of equipment served, and show proper settings for valves, controls, and switches.
- 4. System Maintenance Instructions: Typewritten instructions covering routine maintenance of systems. List each item of equipment requiring inspection, lubrication, or service and briefly describe such maintenance, including types of lubricants and frequency of service. It is not intended that these instructions duplicate manufacturers' detailed instructions. Give name, address, and phone number of nearest firm authorized or qualified to service equipment or provide parts.
- Warranty, Bonds, and Service Contracts: Provide a copy of each warranty, bond, and service contract issued. These should be accompanied by a sheet which outlines procedures to take in the event of failure and the circumstances which might affect the validity of warranties or bonds.



6. Wall Mounted Data: Frame one set of typewritten system instructions and diagrams as required under Paragraphs 3. and 4. above, covered with plexiglass and mount in locations as directed by the University's Representative.

3.6 SPARE PARTS AND EXTRA STOCK MATERIALS

Α.

3.7 WARRANTIES

A. General Provisions:

- 1. This subsection includes administrative and procedural requirements for warranties required by the Contract Documents, including manufacturers' standard warranties on products and special warranties.
 - Refer to the General Conditions for terms of the Contractor's period for correction of the Work.
 - b. Refer to Divisions 2 through 33 for specific requirements for warranties on products and installations specified to be warranted.
 - c. Certifications and other commitments and agreements for continuing services to University are specified elsewhere in the Contract Documents.
- Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products. Manufacturer's disclaimers and limitations on product warranties do not relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.
- Effective Date: Warranties shall begin on the date of Final Acceptance unless specifically
 designated differently or a different date is mutually agreed upon in writing by the parties
 involved.
- 4. General Conditions require all items to be under warranty for a period of one (1) year from date of final completion (Notice of Completion) unless otherwise indicated. Warranties for more than one year required by individual Sections require a written warranty by Contractor and Subcontractor. Refer to individual Section of the Specifications to verify if longer warranties are required.

B. Definitions:

- Standard product warranties are preprinted written warranties published by individual manufacturers for particular products and are specifically endorsed by the manufacturer to the University.
- Special warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the University.

C. Warranty Requirements

 Related Damages and Losses: When correcting failed or damaged warranted construction, remove and replace construction that has been damaged as a result of such failure or must be removed and replaced to provide access for correction of warranted construction.



- 2. Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- 3. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Regents have benefited from use of the Work through a portion of its anticipated useful service life.
- 4. Regents' Recourse: Expressed warranties made to the Regents are in addition to implied warranties and shall not limit the duties, obligations, rights, and remedies otherwise available under the law. Expressed warranty periods shall not be interpreted as limitations on the time in which the Regents can enforce such other duties, obligations, rights, or remedies.
 - Rejection of Warranties: The Regents reserve the right to reject warranties and to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 - b. The Regents reserve the right to reuse to accept Work for the Project where a special guarantee, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented so that entities required to countersign such commitments are willing to do so.
- 5. Where the Contract Documents require a special warranty, or similar commitment on the Work or part of the Work, the University reserves the right to refuse to accept the Work, until the Contractor presents evidence that entities required to countersign such commitments are willing to do so.
- 6. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on standard product warranties shall not relieve the Contractor of the Contractor's warranty on the Work that incorporates the products, and shall also not relieve suppliers, manufacturers, and subcontractors required to counter-sign special warranties with the Contractor.

D. Warranty Submittals

- Submit written warranties to the University's Representative prior to the date certified for Substantial Completion. If the University Representative's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion, or a designated portion of the Work, submit written warranties upon request of the University's Representative.
 - a. When a designated portion of the Work is completed and occupied or used by the University, by separate agreement with the Contractor during the construction period, submit properly executed warranties to the University's Representative within 10 days of completion of that designated portion of the Work.
- 2. Forms for special warranties are included at the end of this Section. Prepare a written document utilizing the appropriate form, ready for execution by the Contractor, or by the Contractor, subcontractor, supplier, or manufacturer. Submit a draft to the University, through the University's Representative, for approval prior to final execution.
 - Refer to Divisions 2 through 33 for specific content requirements and particular requirements for submitting special warranties.
- 3. Form of Submittal: At Final Completion compile 3 copies of each required warranty, in the form included at the end of this Section, properly executed by the Contractor, or by the



Contractor, subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Project Manual.

- 4. Assemble required guarantees, bonds, and service and maintenance contracts.
- 5. Number of original signed copies required: Three (3) sets, each on 8-1/2 inch x 11 inch sheets, 3-hole punched in 3-ring binders. Fold larger sheets to fit into binders. Submit in commercial quality, 3-ring binders, with durable, cleanable plastic covers. Each set of binders shall include:
 - a. Cover: Identify each binder on the cover with typed or printed title, "WARRANTIES", University's Project Name and Number, Name of General Contractor, and binder number, such as "Set 1, Volume 1 of 2", etc.
 - b. Table of Contents: in a spreadsheet/table format, neatly typed and in orderly sequence by CSI number, based on Specifications Table of Contents in the Bidding-Contract Documents, with the following information:
 - (1) CSI Number.
 - (2) Name of Product or Work item.
 - (3) Brief Scope Description.
 - (4) Firm name, address, telephone number, and name of principal with email address.
 - (5) Date of beginning of guarantee, bond, or service and maintenance contract.
 - (6) Duration and expiration date of warranty or service and maintenance contract.
 - c. When warranted, construction requires operation and maintenance manuals, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.
 - d. Except when a special warranty is required by the provisions of a specific Section of these Specifications, or a standard warranty is not offered as a matter of record by the manufacturer of a specified product, submit the manufacturer's standard warranty for each product incorporated in the Work.
 - e. When a manufacturer does not offer a standard warranty, provide a written form listing the product and indicating "Standard Product Warranty Not Available."
- 6. Special Warranty Forms: Attached at the end of this Section.

Ε.

3.8

END OF SECTION



SECTION 01 7839 AS-BUILT DOCUMENTS

PART 1 - GENERAL

1.1. SUMMARY

- A. This Section includes administrative and procedural requirements for As-Built Documents, including without limitation, the following:
 - 1. As-Built Drawings
 - 2. As-Built Specifications
 - 3. As-Built Product Data
 - 4. As-Built Sample Submittal
 - 5. Miscellaneous As-Built Submittals
 - 6. Recording
- B. As-Built Documents required include the following:
 - 1. Marked-up copies of Drawings.
 - 2. Marked-up copies of Shop Drawings.
 - 3. Newly prepared drawings.
 - 4. Marked-up copies of Specifications, Addenda, and Change Orders.
 - 5. Marked-up Product Data submittals.
 - 6. Samples.
 - 7. Field records for variable and concealed conditions.
 - 8. Record information on Work that is recorded only schematically.
 - 9. Operation and Maintenance Data submittals.
 - 10. Miscellaneous submittals.
- C. Maintenance of Documents and Samples: Store As-Built Documents and Samples in the field office apart from the Contract Documents used for construction. Do not use As-Built Documents for construction purposes. Maintain As-Built Documents in good order, legible condition, and in a clean, dry, secure, fire-safe location. Make As-Built Documents and Samples available at all times for the University's Representative's inspections.
 - 1. Maintain 1 set of all As-Built Documents at the Project site for the entire duration of construction.
 - 2. Clearly label each document or item "AS-BUILT DRAWING," "AS-BUILT SAMPLE," "AS-BUILT SPECIFICATION," or similarly as appropriate and applicable.
- D. Do not conceal Work requiring verification for As-Built Documents until such information has been verified and recorded.



1.2. AS-BUILT DRAWINGS

- A. Markup Procedure: During construction, maintain a clean, undamaged set of blue- or black-line white prints of Contract Drawings and Shop Drawings for As-Built Document purposes.
 - 1. Mark these Drawings to show the actual installation where the installation varies from the installation shown originally. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later. Items required to be marked include, but are not limited to, the following:
 - a. Dimensional changes to the Drawings.
 - b. Revisions to details shown on the Drawings.
 - c. Depths of foundations below the first floor. Indicate foundation elevations relative to first floor elevation.
 - d. Horizontal locations and vertical depths of underground utilities and appurtenances, including both site utilities and those under buildings and structures, referenced to permanent surface improvements.
 - e. Revisions to routing of piping and conduits.
 - f. Revisions to electrical circuitry.
 - g. Changes made by change order or field order.
 - h. Changes made following the University Representative's written orders and pertinent graphic and written responses to RFI's.
 - i. Details not on original Contract Drawings.
 - 2. Mark As-Built prints of Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Where Shop Drawings are marked, show cross-reference on Contract Drawings location.
 - 3. Mark As-Built sets with red erasable colored pencil. Use other colors to distinguish between changes for different categories of the Work at the same location.
 - 4. Mark important additional information that was either shown schematically or omitted from original Drawings. Mark new information that is important to the University but was not shown on Contract Drawings or Shop Drawings.
 - 5. Note field order numbers, alternate numbers, change order numbers, RFI numbers, ASI numbers, and similar identification.
 - 6. Identify and date each drawing; include the printed designation "AS-BUILT DRAWING" in a prominent location on each drawing
- B. Responsibility for Markup: The individual or entity who obtained As-Built data, whether the individual or entity is the installer, subcontractor, or similar entity, shall prepare the markup on As-Built drawings.
 - 1. Accurately information in an understandable drawing technique.
 - 2. Record data as soon as possible after obtaining it, but within 24 hours maximum. Record and check the markup prior to enclosing concealed installations.
 - At time of Substantial Completion, submit As-Built drawings to the University's Representative for the University's records. Organize into sets and bind and label sets for the University's continued use. Bind each set with durable-paper cover sheets. Include appropriate identification, including titles, dates, and other information on the cover sheets.
- C. Newly Prepared As-Built Drawings: Prepare new drawings instead of following procedures specified for preparing As-Built drawings where new drawings are required, and the University's

As-Built Documents 01 7839-2



Representative determines that neither original Contract Drawings nor Shop Drawings are suitable to show the actual installation.

D. Consult with the University's Representative for the proper scale and scope of detailing and notations required to record the actual physical installation and its relation to other construction. When completed and accepted, integrate newly prepared Drawings with procedures specified for organizing, copying, binding and submittal of As-Built drawings.

1.3. AS-BUILT SPECIFICATIONS

- A. During the construction period, maintain 3 copies of the Specifications, including addenda and modifications issued, for As-Built Document purposes.
 - 1. Mark the Specifications to indicate the actual installation where the installation varies from that indicated in Specifications and modifications issued. Note related project record drawing information, where applicable. Give particular attention to substitutions, selection of product options, and information on concealed installations that would be difficult to identify or measure and record later.
 - a. In each Specification Section where products, materials, or units of equipment are specified or scheduled, mark the copy with the proprietary name and model number of the product furnished.
 - Record the name of the manufacturer, supplier, installer, and other information necessary to provide a record of selections made and to document coordination with As-Built Product Data submittals and maintenance manuals.
 - c. Note related As-Built Product Data, where applicable. For each principal product specified, indicate whether As-Built Product Data has been submitted in maintenance manual instead of submitted as As-Built Product Data.
 - d. Use pen and black ink so marks will reproduce clearly.
 - 2. Upon completion of markup, submit As-Built Specifications to the University's Representative for the University's records.

1.4. AS-BUILT PRODUCT DATA

- A. During the construction period, maintain one copy of each Product Data submittal for As-Built Document purposes.
 - Mark Product Data to indicate the actual product installation where the installation varies substantially from that indicated in Product Data submitted. Include significant changes in the product delivered to the site and changes in manufacturer's instructions and recommendations for installation.
 - 2. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - 3. Note related change orders and markup of As-Built Drawings, where applicable.
 - 4. Upon completion of markup, submit a complete set of As-Built Product Data to the University's Representative for the University's records.
 - Where As-Built Product Data is required as part of maintenance manuals, submit marked-up Product Data as an insert in the manual instead of submittal as As-Built Product Data.



1.5. AS-BUILT SAMPLE SUBMITTAL

A. Immediately prior to date of Substantial Completion meet with the University's Representative and the University's personnel at the site to determine which of the Samples maintained during the construction period shall be transmitted to the University for record purposes. Comply with the University Representative's instructions for packaging, identification marking, and delivery to the University's Sample storage space. Dispose of other Samples in a manner specified for disposing surplus and waste materials.

1.6. MISCELLANEOUS AS-BUILT SUBMITTALS

- A. Refer to other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Immediately prior to Substantial Completion, complete miscellaneous As-Built records and place in good order, properly identified and bound or filed, ready for use and reference. Submit to the University's Representative for the University's records.
 - 1. Categories of requirements resulting in miscellaneous As-Built Documents include, but are not limited to, the following:
 - a. Field records on excavations and foundations.
 - b. Field records on underground construction and similar work.
 - c. Survey showing locations and elevations of underground lines.
 - d. Invert elevations of drainage piping.
 - e. Surveys establishing building lines and levels.
 - f. Authorized measurements utilizing unit prices or allowances.
 - g. Records of plant treatment.
 - h. Ambient and substrate condition tests.
 - i. Certifications received in lieu of labels on bulk products.
 - Batch mixing and bulk delivery records.
 - k. Testing and qualification of tradesmen.
 - I. Documented qualification of installation firms.
 - m. Load and performance testing.
 - n. Inspections and certifications by governing authorities.
 - o. Leakage and water-penetration tests.
 - p. Final inspection and correction procedures.
 - q. Field test reports.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

3.1 RECORDING

- A. Post changes and modifications to the As-Built Documents as they occur. Do not wait until the end of the Project. The University's Representative and IOR will periodically review As-Built Documents to determine compliance with this requirement.
- B. Current updated As-Built Documents shall be made available to the University's Representative and IOR for review at the time of submitting applications for payment.
- C. Per the General Conditions, the University has the right to withhold payment until As-Built Documents are completed and current to date as of the latest application for payment

END OF SECTION



SECTION 01 9113 GENERAL COMMISSIONING REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes general requirements that apply to implementation of commissioning without regard to systems, subsystems, and equipment being commissioned:
 - 1. Commissioning Team
 - 2. University's Responsibilities
 - 3. Contractor's Responsibilities
 - 4. CxA's Responsibilities
 - 5. Commissioning Documentation
 - 6. Submittals
 - 7. Quality Assurance
 - 8. Title 24 Acceptance Testing
 - 9. Start-up, Pre-Functional Checklists and Initial Checkout
 - 10. Functional Performance Testing
 - 11. Operation and Maintenance Training Requirements
 - 12. Costs of Commissioning Work
 - 13. Equipment and System Schedule

B. Related Sections:

- Division 1 Section "Sustainable Design Requirements" for LEED Documentation related to commissioning.
- b. Audio visual equipment
- c. Fire suppression systems
- d. Plumbing systems
- e. HVAC systems, including Controls or Integrated Automation.
- f. Lighting and other electrical systems.
- g. Communications and Data systems.
- h. Safety and security systems.
- C. Basis of Design (BOD) and Owner's Project Requirements (OPR) documentation prepared by University contains requirements that apply to this Section. This information is available to Bidders upon request.
- D. Comply with the Acceptance Testing requirements of Title 24 Energy Code and ACM (Alternative Calculation Method) Approval Manual. Additional requirements are given in Part 3 of this Section.

1.2 DEFINITIONS

- A. Commissioning Process: The basic purpose of building commissioning is to provide documented confirmation that building systems function in compliance with criteria set forth in the Project Documents to satisfy the owner's operational needs.
- B. Basis of Design (BOD) document: A document that records concepts, calculations, decisions, product selections used to meet the OPR and to satisfy applicable regulatory requirements, standards, and guidelines. The document includes both narrative descriptions and lists of individual items that support the design process.
- C. CxA: Commissioning Authority.



- D. University Project Requirements (OPR): A written document, prepared by the University, that details the functional requirements of Project and expectations of how it will be used and operated. This document includes Project and design goals, measurable performance criteria, budgets, schedules, success criteria, and supporting information.
- E. Systems, Subsystems, and Equipment: Where these terms are used together or separately, they shall mean "as-built" systems, subsystems, and equipment.
- F. TAB: Testing, Adjusting, and Balancing.
- G. Title 24: California Code of Regulations, Title 24, Part 1 Building Energy Efficiency Standards (latest edition).

1.3 COMMISSIONING TEAM

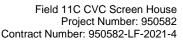
- A. Members Appointed by Contractor: Individuals, each having authority to act on behalf of the entity he or she represents, explicitly organized to implement the commissioning process through coordinated actions. The commissioning team shall consist of, but not be limited to, representatives of Contractor, including Project superintendent and subcontractors, installers, suppliers, and specialists deemed appropriate by the CxA.
- B. Members Appointed by University:
 - 1. CxA: The designated person, company, or entity that plans, schedules, and coordinates the commissioning team to implement the commissioning process. Owner may engage the independent CxA under a separate contract.
 - 2. Representatives of the facility user and operation and maintenance personnel.
 - 3. Architect and engineering design professionals.

1.4 UNIVERSITY'S RESPONSIBILITIES

- A. Provide the OPR documentation to the CxA and Contractor for use in developing the commissioning plan; systems manual; operation and maintenance training plan; and testing plans and checklists.
- B. Assign operation and maintenance personnel and schedule them to participate in commissioning team activities including, but not limited to the following:
 - Coordination meetings.
 - 2. Training in operation and maintenance of systems, subsystems, and equipment.
 - Testing meetings.
 - 14. Demonstration of operation of systems, subsystems, and equipment.
- B. Provide the BOD documents, prepared by University or its consultants, to the CxA and Contractor for use in developing the commissioning plan, systems manual, and operation and maintenance training plan.

1.5 CONTRACTOR'S RESPONSIBILITIES

- A. Provide utility services required for the commissioning process.
- B. Contractor is responsible for construction means, methods, job safety, and/or management function related to commissioning on the job site.
- C. Contractor shall assign representatives with expertise and authority to act on behalf of the Contractor and schedule them to participate in and perform commissioning team activities including, but not limited to, the following:
 - 1. Participate in construction-phase coordination meetings.

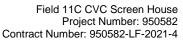




- 2. Participate in maintenance orientation and inspection.
- 3. Participate in operation and maintenance training sessions.
- 4. Participate in final review at acceptance meeting.
- 5. Certify that Work is complete and systems are operational according to the Contract Documents, including calibration of instrumentation and controls.
- 6. Evaluate performance deficiencies identified in test reports and, in collaboration with entity responsible for system and equipment installation, recommend corrective action.
- 7. Review and comment on final commissioning documentation.
- Contractor shall integrate all commissioning activities into Contractor's master construction schedule.
- E. Subcontractors shall assign representatives with expertise and authority to act on behalf of subcontractors and schedule them to participate in and perform commissioning team activities including, but not limited to, the following:
 - 1. Participate in construction-phase coordination meetings.
 - 2. Participate in maintenance orientation and inspection.
 - 3. Participate in procedures meeting for testing.
 - 4. Participate in final review at acceptance meeting.
 - 5. Provide schedule for operation and maintenance data submittals, equipment startup, and testing to CxA for incorporation into the commissioning plan. Update schedule on a weekly basis throughout the construction period.
 - Provide information to the CxA for developing construction-phase commissioning plan.
 - Participate in training sessions for University's operation and maintenance personnel.
 - 8. Provide updated Project Record Documents to the CxA on a daily basis.
 - 9. Gather and submit operation and maintenance data for systems, subsystems, and equipment to the CxA, as specified in Division 01 Section "Operation and Maintenance Data."
 - 10. Provide technicians who are familiar with the construction and operation of installed systems, who shall execute the test procedures developed by the CxA, and who shall participate in testing of installed systems, subsystems, and equipment.

1.6 CxA'S RESPONSIBILITIES

- A. Organize and lead the commissioning team.
- B. Conduct a commissioning design review of the OPR, BOD, and design documents prior to mid-construction documents phase and back-check the review comments in the subsequent design submissions, in accordance with LEED credit EA3 "Enhanced Commissioning".
- C. Prepare a construction-phase commissioning plan. Collaborate with design team, University, Contractor and with subcontractors to develop test and inspection procedures. Include design changes and scheduled commissioning activities coordinated with overall Project schedule. Identify commissioning team member responsibilities, by name, firm, and trade specialty, for performance of each commissioning task.
- D. Work with the University to schedule commissioning activities. All parties will address scheduling issues in a timely manner in order to expedite the commissioning process.
- E. Review and comment on submittals from Contractor for compliance with the OPR, BOD, Contract Documents, and construction-phase commissioning plan. Review and comment on performance expectations of systems and equipment and interfaces between systems relating to the OPR and BOD.

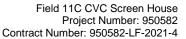




- F. Convene commissioning team meetings on a monthly basis for the purpose of coordination, communication, and conflict resolution; discuss progress of the commissioning processes. Responsibilities include arranging for facilities, preparing agenda and attendance lists, and notifying participants. The CxA shall prepare and distribute minutes to commissioning team members and attendees within five (5) workdays of the commissioning meeting.
- G. At the beginning of the construction phase, conduct an initial construction-phase coordination meeting for the purpose of reviewing the commissioning activities and establishing tentative schedules for operation and maintenance submittals; operation and maintenance training sessions; TAB Work; and Project completion.
- F. Observe and inspect construction and report progress and deficiencies. In addition to compliance with the OPR, BOD, and Contract Documents, inspect systems and equipment installation for adequate accessibility for maintenance and component replacement or repair.
- G. Prepare Project-specific test and inspection procedures and checklists.
- H. Schedule, direct, witness, and document tests, inspections, and systems startup.
- Compile test data, inspection reports, and certificates and include them in the systems manual and commissioning report.
- Certify date of acceptance and startup for each item of equipment for start of warranty periods.
- K. Review Project Record Documents for accuracy. Request revisions from Contractor to achieve accuracy. Project Record Documents requirements are specified in Division 01 Section "Project Record Documents."
- L. Review and comment on operation and maintenance documentation and systems manual outline for compliance with the OPR, BoD, and Contract Documents. Operation and maintenance documentation requirements are specified in Division 01 Section "Operation and Maintenance Data."
- M. Review Contractor's operation and maintenance training program. Operation and maintenance training is specified in Division 01 Section "Demonstration and Training."
- N. Obtain the services of a professional agency to video the training sessions where required by individual Specification Sections.
- O. Video construction progress including hidden shafts.
- P. Prepare commissioning reports.
- Q. Assemble the final commissioning documentation, including the commissioning report and Project Record Documents.

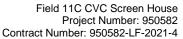
1.7 COMMISSIONING DOCUMENTATION

- A. Index of Commissioning Documents: CxA shall prepare an index to include storage location of each document.
- B. Commissioning Plan: A document, prepared by CxA, that outlines the schedule, allocation of resources, documentation requirements of the commissioning process, and shall include, but is not limited to the following:





- 1. Plan for delivery and review of submittals, systems manuals, and other documents and reports. Identification of the relationship of these documents to other functions and a detailed description of submittals that are required to support the commissioning processes. Submittal dates shall include the latest date approved submittals must be received without adversely affecting commissioning plan.
- 2. Description of the organization, layout, and content of commissioning documentation (including systems manual) and a detailed description of documents to be provided along with identification of responsible parties.
- 3. Identification of systems and equipment to be commissioned.
- 4. Description of schedules for testing procedures along with identification of parties involved in performing and verifying tests.
- 5. Identification of items that must be completed before the next operation can proceed.
- 6. Description of responsibilities of commissioning team members.
- 7. Description of observations to be made.
- 8. Description of requirements for operation and maintenance training, including required training materials.
- Description of expected performance for systems, subsystems, equipment, and controls.
- Schedule for commissioning activities with specific dates coordinated with overall construction schedule.
- 11. Identification of installed systems, subsystems, and equipment, including design changes that occurred during the construction phase.
- 12. Process and schedule for documenting changes on a continuous basis to appear in Project Record Documents.
- 13. Process and schedule for completing prestart and startup checklists for systems, subsystems, and equipment to be verified and tested.
- 14. Step-by-step procedures for testing systems, subsystems, and equipment with descriptions for methods of verifying relevant data, recording the results obtained, and listing parties involved in performing and verifying tests.
- C. Pre-Functional Checklists: CxA shall develop pre-functional checklists for all equipment to be commissioned. Further requirements are specified in Part 3 of this Section.
- D. Functional Performance Testing: CxA shall develop functional performance test procedures for all equipment and systems to be commissioned. Further requirements are specified in Part 3 of this Section.
- E. Certificate of Readiness: Certificate of Readiness shall be signed by Contractor, Subcontractor(s), and installer(s) certifying that systems, subsystems, equipment, and associated controls are ready for testing. Completed test checklists signed by the responsible parties shall accompany this certificate.
- F. Test and Inspection Reports: CxA shall record test data, observations, and measurements on test checklists. Photographs, forms, and other means appropriate for the application shall be included with data. CxA shall compile test and inspection reports and test and inspection certificates and include them in systems manual and commissioning report.
- G. Corrective Action Documents: CxA shall document corrective action taken for systems and equipment that fail tests. Include required modifications to systems and equipment and revisions to test procedures, if any. Retest systems and equipment requiring corrective action and document retest results.
- H. Issues Log: CxA shall prepare and maintain an issues log that describes design, installation, and performance issues that are at variance with the OPR, BoD, and Contract Documents. Identify and track issues as they are encountered, documenting the status of unresolved and resolved issues.



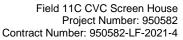


1. Creating an Issues Log Entry:

- a. Identify the issue with unique numeric or alphanumeric identifier by which the issue may be tracked.
- b. Assign a descriptive title of the issue.
- c. Identify date and time of the issue.
- d. Identify test number of test being performed at the time of the observation, if applicable, for cross-reference.
- e. Identify system, subsystem, and equipment to which the issue applies.
- f. Identify location of system, subsystem, and equipment.
- g. Include information that may be helpful in diagnosing or evaluating the issue.
- h. Note recommended corrective action.
- i. Identify commissioning team member responsible for corrective action.
- j. Identify expected date of correction.
- k. Identify person documenting the issue.

2. Documenting Issue Resolution:

- a. Log date correction is completed or the issue is resolved.
- b. Describe corrective action or resolution taken. Include description of diagnostic steps taken to determine root cause of the issue, if any.
- c. Identify changes to the OPR, BOD, or Contract Documents that may require action.
- State that correction was completed and system, subsystem, and equipment is ready for retest, if applicable.
- e. Identify person(s) who corrected or resolved the issue.
- f. Identify person(s) documenting the issue resolution.
- I. Commissioning Report: CxA shall document results of the commissioning process including unresolved issues and performance of systems, subsystems, and equipment. The commissioning report shall indicate whether systems, subsystems, and equipment have been completed and are performing according to the OPR, BOD, and Contract Documents. The commissioning report shall include, but is not limited to, the following:
 - Lists and explanations of substitutions; compromises; variances in the OPR, BOD, and Contract Documents; record of conditions; and, if appropriate, recommendations for resolution. This report shall be used to evaluate systems, subsystems, and equipment and shall serve as a future reference document during University occupancy and operation. It shall describe components and performance that exceed requirements of the OPR, BOD, and Contract Documents and those that do not meet requirements of the OPR, BOD, and Contract Documents. It may also include a recommendation for accepting or rejecting systems, subsystems, and equipment.
 - 2. OPR and BOD documentation.
 - 3. Commissioning plan.
 - 4. Testing plans and reports.
 - 5. Corrective modification documentation.
 - Issues log.
 - 7. Completed test checklists.
 - 8. Listing of off-season test(s) not performed and a schedule for their completion.
- J. Systems Manual: CxA shall gather required information and compile systems manual. Systems manual shall include, but is not limited to, the following:
 - 1. OPR and BOD, including system narratives, schematics, and changes made throughout the Project.
 - Project Record Documents as specified in Division 01 Section "Project Record Documents."





- 3. Final commissioning plan.
- 4. Commissioning report.
- 5 Operation and maintenance data as specified in Division 01 Section "Operation and Maintenance Data."

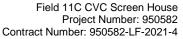
1.8 SUBMITTALS

The CxA shall submit the following:

- A. Commissioning Plan Prefinal Submittal: Submit three (3) hard copies of pre-final commissioning plan. Deliver one copy to Contractor, one to Owner, and one to University Consultant. Present submittal in sufficient detail to evaluate data collection and arrangement process. One copy, with review comments, will be returned to the CxA for preparation of the final construction-phase commissioning plan.
- B. Commissioning Plan Final Submittal: Submit three (3) hard copies and two sets of electronically formatted information of final commissioning plan. Deliver one hard copy and one set of discs to University, and one copy to University Consultant. The final submittal must address previous review comments. The final submittal shall include a copy of the pre-final submittal review comments along with a response to each item.
- C. Test Checklists and Report Forms: Submit sample checklists and forms to Contractor quality-control manager and subcontractors for review and comment. Submit three (3) copies of each checklist and report form.
- D. Certificates of Readiness.
- E. Test and Inspection Reports.
- F. Corrective Action Documents.
- G. Pre-final Commissioning Report Submittal: Submit three (3) hard copies of the pre-final commissioning report. Include a copy of the preliminary submittal review comments along with CxA's response to each item. CxA shall deliver one copy to University and one copy to University Consultant. One copy, with review comments, will be returned to the CxA for preparation of final submittal.
- H. Final Commissioning Report Submittal and LEED™ Documentation: Submit three (3) hard copies and three (3) sets of electronically formatted information of the final commissioning report. The final submittal must address previous review comments and shall include a copy of the pre-final submittal review comments along with a response to each item.
- I. Recommissioning Management Manual: Develop an indexed Recommissioning Management Manual to be delivered to the Owner with the final commissioning report. Include all components listed in the LEED Reference Guide.
- J. LEED™ Documentation. Compile LEED™ Documentation. Format as required by USGBC for submittal under LEED™ rating system.

1.9 QUALITY ASSURANCE

- A. Training Instructor Qualifications: Contractor shall provide factory-authorized service representatives, experienced in training, operation, and maintenance procedures for installed systems, subsystems, and equipment.
- B. Test Equipment Calibration: Comply with test equipment manufacturer's calibration procedures and intervals. Recalibrate test instruments (per NIST requirements if applicable) immediately whenever instruments have been repaired following damage or





dropping. Affix calibration tags to test instruments. Instruments shall have been calibrated within six months prior to use.

CxA shall coordinate the following:

- A. Coordinating Meetings: Conduct regular coordination meetings of the commissioning team at least monthly to review progress on the commissioning plan, to discuss scheduling conflicts, and to discuss upcoming commissioning process activities.
- B. Pretesting Meetings: Conduct pretest meetings of the commissioning team to review startup reports, pretest inspection results, testing procedures, testing personnel and instrumentation requirements, and manufacturers' authorized service representative services for each system, subsystem, equipment, and component to be tested.
- C. Testing Coordination: Coordinate sequence of testing activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.

PART 2 - PRODUCTS (Not Used)

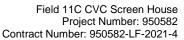
PART 3 - EXECUTION

1.2 TITLE 24 ACCEPTANCE TESTING

- Comply with the requirements of Title 24, and Appendix NJ of the Nonresidential Alternative Calculation Method (ACM) Approval Manual.
 - 1. The installing Contractor shall be responsible for reviewing the plans and specifications to assure they conform to the Acceptance Requirements. This is typically done prior to signing a Certificate of Compliance.
 - 2. The installing Contractor shall be responsible for providing all necessary instrumentation, measurement and monitoring, and undertaking all required acceptance requirement procedures. They shall be responsible for correcting all performance deficiencies and again implementing the acceptance requirement procedures until all specified systems and equipment are performing in accordance with the Standards.
 - 3. The installing Contractor shall be responsible for documenting the results of the acceptance requirement procedures including paper and electronic copies of all measurement and monitoring results. They shall be responsible for performing data analysis, calculation of performance indices and crosschecking results with the requirements of the Standard. They shall be responsible for issuing a Certificate of Acceptance. The University shall not release a final Certificate of Occupancy until a Certificate of Acceptance is submitted that demonstrates that the specified systems and equipment have been shown to be performing in accordance with the Standards.
 - 4. The installing Contractor upon completion of undertaking all required acceptance requirement procedures shall record their State of California Contractor's License number or their State of California Professional Registration License Number on each Certificate of Acceptance that they issue.

1.3 START-UP, PRE-FUNCTIONAL CHECKLISTS AND INITIAL CHECKOUT

- A. The following procedures apply to all equipment to be commissioned.
- B. General. Pre-functional Checklists are developed and completed for all major equipment and systems being commissioned. The checklist captures equipment nameplate and



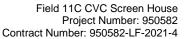


characteristics data, confirming the as-built status of the equipment or system. These checklists also ensure that the systems are complete and operational, so that the functional performance testing can be scheduled. The checklists are created by the CxA and completed (filled out) by the installing Contractor.

- C. Start-up and Initial Checkout Plan. The CxA shall assist the commissioning team members responsible for startup of any equipment in developing detailed start-up plans for all equipment. The primary role of the CxA in this process is to ensure that there is written documentation that each of the manufacturer-recommended procedures have been completed.
- D. Pre-functional Checklists. The CxA shall create pre-functional checklists, based primarily on the manufacturer's startup and initial checkout procedures are created. Each checkout item shall have a place to document that proper installation has occurred. Once the pre-functional checklist is completed by the installing Contractor, this signifies that the equipment is properly installed per manufacturer's procedures, and the controls and TAB are complete and the equipment is ready for final functional performance testing. The Contractor determines which Sub-contractor is responsible for executing and documenting each of the line item tasks.
- E. Sensor Calibration. Calibration of all sensors shall be included as part of the pre-functional checklists performed by the Contractors.
- F. Execution of Pre-functional Checklists and Startup.
 - 1. Sub-contractors and vendors schedule startup and checkout with the University, Contractor, and CxA.
 - 2. The CxA shall observe, at minimum, the procedures for each piece of primary equipment, unless there are repetitive multiple units, (in which case a sampling strategy may be used as approved by the University).
 - For lower-level components of equipment in non-sensitive areas of the Project, (e.g., VAV boxes, reheat coils), the CxA shall observe a sampling of the prefunctional and start-up procedures.
 - 4. The Contractor and vendors shall execute startup and provide the CxA with a signed and dated copy of the completed start-up and pre-functional checklists.
 - Only individuals that have direct knowledge and witnessed that a line item task on the pre-functional checklist was actually performed shall initial or check that item off
- G. Deficiencies, Non-Conformance and Approval in Checklists and Startup.
 - 1. The Contractor shall clearly list any outstanding items of the initial start-up and prefunctional procedures that were not completed successfully, at the bottom of the procedures form or on an attached sheet. The procedures form and any outstanding deficiencies are provided to the CxA within two days of test completion.
 - The CxA reviews the report and recommends approval to the University. The CxA shall work with the Contractor and vendors to correct and retest deficiencies or uncompleted items. The CxA will involve the University and others as necessary.

1.4 FUNCTIONAL PERFORMANCE TESTING

A. Objectives and Scope. The objective of functional performance testing is to demonstrate that each system is operating according to the documented design intent and Contract Documents. In general, each system should be operated through all modes of operation (seasonal, occupied, unoccupied, warm-up, cool-down, part- and full-load) where there is a specified system response. Verifying each sequence in the sequences of operation is required. Proper responses to such modes and conditions as power failure, freeze condition, low oil pressure, no flow, equipment failure, etc. shall also be tested.





B. Development of Test Procedures. Before test procedures are written, the CxA shall obtain all requested documentation and a current list of change orders affecting equipment or systems, including an updated points list, program code, control sequences and parameters. The CxA shall develop specific test procedures and forms to verify and document proper operation of each piece of equipment and system. Prior to execution, the CxA shall provide a copy of the test procedures to the Contractor who shall review the tests for feasibility, safety, equipment and warranty protection. The CxA shall review University-contracted or factory testing which the CxA is not responsible to oversee and shall determine what further testing may be required to comply with the Contract Documents. Redundancy of testing shall be minimized.

The test procedure forms developed by the CxA shall include the following information:

- 1. System and equipment or component name(s).
- 2. Equipment location and ID number.
- 3. Date.
- 4. Project name and University Project Number.
- 5. Participating parties.
- 6. Reference to the specification section describing the test requirements.
- 7. A copy of the specific sequence of operations.
- 8. Instructions for setting up the test.
- 9. Special cautions, alarm limits, etc.
- 10. Specific step-by-step procedures to execute the test.
- 11. Acceptance criteria of proper performance with a Yes / No check box.
- 12. A section for comments.
- 13. Signatures and date block for the CxA.

C. Test Methods.

- Functional performance testing and verification may be achieved by manual testing (persons manipulate the equipment and observe performance) or by monitoring the performance and analyzing the results using the control system's trend log capabilities or by stand-alone data loggers. The CxA will determine which method is most appropriate.
- 2. Setup. Each function and test shall be performed under conditions that simulate actual conditions as close as is practically possible. The Contractor executing the test shall provide all necessary materials, system modifications, etc. to produce the necessary flows, pressures, temperatures, etc. necessary to execute the test according to the specified conditions. At completion of the test, the Contractor shall return all affected building equipment and systems, due to these temporary modifications, to their pre-test condition.
- 3. Sampling. Multiple identical pieces of non-life-safety or non-critical equipment may be functionally tested using a sampling strategy. The sampling strategy will be developed by the CxA and approved by the University. If, after three attempts at testing the specified sample percentage, failures are still present, then all remaining units are tested at the Contractor's expense.
- D. Coordination and Scheduling. The Contractor shall provide sufficient notice to the CxA regarding their completion schedule for the pre-functional checklists and startup of all equipment and systems. The CxA will schedule functional tests through the University Representative and Contractor. The CxA shall direct, witness and document the functional testing of all equipment and systems. The Contractor shall execute the tests.
- E. Problem Solving. The CxA will recommend solutions to problems found; however the burden of responsibility to solve, correct and retest problems is with the Contractor and University consultants.



OPERATION AND MAINTENANCE TRAINING REQUIREMENTS 1.5

- Training Preparation Conference: Before operation and maintenance training, CxA shall convene a training preparation conference to include Owner's operation and maintenance personnel, Contractor, and subcontractors. In addition to requirements specified in Division 01 Section "Demonstration and Training," perform the following:
 - 1. Review the OPR and BoD.
 - Review installed systems, subsystems, and equipment. 2.
 - 3. Review instructor qualifications.
 - Review instructional methods and procedures. 4.
 - 5. Review training module outlines and contents.
 - 6. Review course materials (including operation and maintenance manuals).
 - Inspect and discuss locations and other facilities required for instruction. 7.
 - Review and finalize training schedule and verify availability of educational 8. materials, instructors, audiovisual equipment, and facilities needed to avoid delavs.
 - For instruction that must occur outside, review weather and forecasted weather 9. conditions and procedures to follow if conditions are unfavorable.
- В. Training Modules: Develop an instruction program that includes individual training modules for each system, subsystem, and equipment as specified in Division 01 Section "Demonstration and Training."

COSTS OF COMMISSIONING WORK 1.6

- A. The cost of the CxA shall be borne by the University.
- The cost to the Contractor and Subcontractors to comply with the specified requirements B. and to support the work of the CxA shall be included in the Contractor's and Subcontractor's bid price.
- C. If a device, piece of equipment, sequence, or system fails a test, corrections shall be made and a second test shall be performed. If the second test is not successful, then the CxA's cost for a third test or subsequent tests shall be reimbursed to the CxA by the Contractor.

1.7 **EQUIPMENT & SYSTEM SCHEDULE**

A. The following equipment shall be commissioned in this Project.

System	Equipment	Note	Req'd by LEED
10/40	Chillers		X
HVAC	Boilers		X
System	Pumps		X
	Cooling towers		X
	Variable frequency drives		X
	Air handlers		X
	Packaged AC units		X
	Terminal units for Court Rooms and other high		X
	occupancy rooms		
	Terminal units for Office areas	2	X
System	Equipment	Note	Req'd by LEED
11)/40	Unit heaters		X
HVAC	Heat exchangers		X
System	Exhaust fans		X
	Supply fans		X
	Return fans		X
	Chilled beams		X



	Sequences of Operation, Monitored Points, Control Points, and Alarms		X
Building Energy Management System	Metering/Monitoring Devices and Equipment		Χ
	Software Commissioning, GUI presentation		
	commissioning, system access performance criteria,		
(EMS)	software tools/source code commissioning,		
(Livio)	instrument data sheets, middleware commissioning,		
1	Internet Protocol commissioning		
Lighting and	Commence of Operation Manitoned resists control		X
Shade Control	Sequences of Operation, Monitored points, control points, user controls		
System	points, user controls		
Electrical	Sweep or scheduled lighting controls	2	Х
System	Daylight dimming controls		X
Cyclon.	Lighting occupancy sensors		X
	Electrical grounding		
Plumbing	Domestic water heaters		Χ
System			
Security	Security cameras and monitoring system personal		
Alarm	duress alarm system; Intercom system; Paging		
Systems	System.		
Security	Security plumbing fixture water management system.		
Electronics			
Cominor/	Door Controls.		
Seminar/ Conference	Fire alarm system.		
Rooms	Distributed radio antenna system.		
ROOMS	Access control system.		
	Room acoustics.		
Fire/Life	Sound masking system.		
Fire/Life	Assisted listening.		
Safety Systems	Video projection.		
	Audio system. Lighting and lighting controls.		X
	All devices		^
	Alarm drivers		
Communicati	HVAC/Fire System Integration		
on System	Event Notifying and Reporting Systems		
on Oyutum	Event Nothlying and Neporting Systems	1	

Notes:

1. Centralized equipment should be fully commissioned.

PART 2 - Items which represent multiple, identical repetitive equipment may be tested on a "sampling" or "spot-check" basis, 20% of total.

END OF SECTION