FERNAU & HARTMAN ARCHITECTS

MAY 28, 2010



UC RIVERSIDE | THE BARN PROJECT PHASES 1 & 2 | DETAILED PROJECT PROGRAM

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I. INTRODUCTION

Appreciation is given to all who participated in the development of the 2010 Barn Project Phases 1 & 2 Detailed Project Program (DPP).

Executive Summary outlines the project vision, methodology, site, and scope. *Process* describes the series of workshops that included the many stakeholders' input to arrive at the DPP. *Project Goals* states the guiding principles and *Site Analysis* describes the key elements of the 2009 Barn Area Study that were reviewed as part of this DPP.

Participants

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROJECT MANAGEMENT TEAM

Tim Ralston	Associate Vice Chancellor, Capital and Physical Planning
Kieron Brunelle	Director, Capital and Physical Planning
Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
Don Caskey	Associate Vice Chancellor, Campus Architect
Richard Racicot	Assistant Vice Chancellor, Design and Construction
Jacqueline Norman	Senior Project Manager, Office of Design and Construction
Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
Susan L. Marshburn	Executive Director, Housing Services

STEERING COMMITTEE

Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
Susan L. Marshburn	Executive Director, Housing Services
Cheryl Garner	Executive Director, Dining Services
Nita Bullock	Director of Physical Planning, Campus Landscape Architect
Professor John Ganim	Academic Senate Physical Resources Planning Committee Representative
Nathan Ziadie	Associated Students of UCR (ASUCR) Representative

CAMPUS REPRESENTATIVES

Trish D. Thrasher	Office of Design and Construction
Kenyon Potter	Office of Design and Construction
Louis Vandenberg	KUCR General Manager
Robert Heath	University Club
Connie Young	University Club
Nathaniel Jones	Assistant Dean, CHASS
Paul Richardson	Arts Facilities Manager, CHASS
Tim Gable	Communications
Scott Corrin	Fire Marshall
Pat Simone	Assistant Director, Physical Plant
Pat Nugent	Physical Plant
Mike Terry	Physical Plant
Eric Shuler	Supervisor, Electrical Shop
Mike Delo	Transportation and Parking Services
Andy Stewart	Transportation and Parking Services
John Freese	UCR Police
Hassan Ghamlouch	Director of Housing Operations
Berent Pippert	Campus Space Manager, Capital and Physical Planning
Israel Fletes	Multimedia Technologies

Participants

CONSULTING TEAM MEMBERS

ARCHITECT

Fernau & Hartman Architects 2512 Ninth Street No. 2 Berkeley, CA 94710

Richard Fernau Laura Hartman Jason Wilkinson Laura Boutelle Ryan Metcalf Cindy Liu Design Principal Principal in Charge Project Manager Project Designer Junior Designer Junior Designer

CIVIL ENGINEER

Sherwood Design Engineers

1 Union Street, Second Floor San Francisco, CA 94111

John LeysPrincipalBry SartePrincipal Engineer

LANDSCAPE ARCHITECT Lutsko Associates

2815 18th Street San Francisco. CA 94110

Ron LutskoPrincipalTerri McFarlandSenior Associate

STRUCTURAL ENGINEER

Tipping Mar 1906 Shattuck Ave Berkeley, CA 94704

David Mar

Principal

MECHANICAL / ELECTRICAL / PLUMBING ENGINEER

Timmons Design Engineers

901 Market Street, Suite 480 San Francisco, CA 94103

Sean TimmonsPrincipalJohn RozelukAssociate Principal

FOOD SERVICE CONSULTANT

Laschober + Sovich Inc. 20301 Ventura Blvd, Suite 338 Woodland Hills, CA 91364

Larry Lanier President

COST ESTIMATOR

Oppenheim Lewis Inc. 2742 17th Street San Francisco, CA 94110

Scott Lewis President

THEATER CONSULTANT

Landry & Bogan 733 West Evelyn Ave Mountain View CA 94041

Rose Steel Principal Consultant

ACOUSTICAL AND A/V CONSULTANT

Charles M. Salter Associates, Inc. 130 Sutter Street, Suite 500 San Francisco, CA 94104

Charles M. Salter President Thomas A. Schindler Vice President

GREEN BUILDING CONSULTANT Simon & Associates. Inc.

200 Brannan Street #204 San Francisco, CA 94107

Lynn Simon Marian Keeler

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President Senior Consultant

Executive Summary

PROJECT VISION

The Barn Project Phases 1 & 2 offers the opportunity to strengthen the connection between the historic roots of the region and the future identity of the UCR campus. The Barn Group has the possibility of becoming a hub of indoor/outdoor activity and diversity that anchors and brands the image of UCR through a respectful integration of old and new. The Barn Project Phases 1 & 2 will:

- Provide a unique dining and entertainment center.
- Enhance awareness of the Campus's agrarian heritage.
- Serve as a gateway / link between the East Campus and the West Campus.
- Integrate indoor and outdoor spaces to support dining and entertainment programs.
- Be developed as a model of sustainable adaptive reuse that can serve to both instruct and demonstrate principles of sustainability.

METHODOLOGY

The 2010 Barn Project Phases 1 & 2 DPP was realized through a series of four on-campus workshops which included the UCR Project Management Team, Steering Committee, and the design consultant team. This team included: the Offices of Capital and Physical Planning, Office of Design and Construction and Housing, Dining & Residential Services. The working sessions included detailed input from KUCR, as well as the College of Humanities, Arts, and Social Sciences (CHASS), University Club, and other campus representatives. The preferred alternative was presented and favorably reviewed by the Campus Design Review Board (DRB).

Previous campus planning documents were used as a point of departure. They include:

- 1993 Historical Resources Inventory, The Barn Theater and The Barn Group
- 2002 East Campus Infrastructure Detailed Project Program
- 2005 Long Range Development Plan
- 2006 East/Southeast Campus Area Study
- 2007 Campus Design Guidelines
- 2008 Campus Aggregate Master Planning Study (CAMPS)
- 2009 Barn Area Study
- 2010 Historic Resources Assessment--The Barn Group and University Cottage

The 2010 Historical Resources Assessment did not encounter any "historical resources" as defined by CEQA within the project area. However, because the buildings are associated with the earliest history of the campus, the buildings should be given special consideration in planning and

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design. This could include keeping the building s together as a group and preserving their rustic feel by retaining features that contribute to their historic character.

The program elements were defined and located based on campus and user requirements and standards, as well as design consultant input.

PROJECT SITE

The project is located in the southwest Carillon Mall District near the intersection of West Campus Drive with the Barn Walk and the western terminus of the Eucalyptus Walk.





Executive Summary

PROJECT SCOPE: BARN PROJECT PHASES 1 & 2 & 3

The Barn Project will be developed in three phases. Phase 1 will include: the renovation of The Barn and construction of the Kitchen Addition; the relocation, renovation, and addition to the Barn Stable; the relocation and renovation of the Cottage; the East Courtyard; the Cottage South Patio: Loading Dock Area and Drive Aisle along West Campus Drive; and major utility connections. Phase 2 will include construction of the new facility for KUCR and the West Courtyard. This DPP addresses these two phases in detail. Phase 3 will include the Barn Theater Addition and Renovation. This DPP locates and provides design guidelines for the future development of the Barn Theater, but does not include detailed programming for this phase.

The Program for the 2010 Barn Project Phases 1 & 2 is organized in four categories with the following Assigned Square Footage (ASF):

The 6,473 ASF of The Barn (Barn Dining and Kitchen Addition) includes:

- Production kitchen
- Ware washing
- · Back of house support
- Servery
- · Indoor seating and Indoor Stage

The 1,870 ASF of the Barn Stable Relocation, Renovation and Addition includes:

- Meeting Room
- Bar
- Lobby
- Kitchen
- Storage

The 739 ASF of the Cottage Relocation and Renovation includes:

- Serving
- Back of house support

The 2,946 ASF of KUCR includes:

- Production spaces
- Library
- Office service/ kitchenette
- Storage
- 5 private offices
- 4 open offices
- Server / transmission room
- Lobby
- Backstage space



PROGRAMMABLE OUTDOOR SPACE

Additional programmable space not included in the ASF totals above include outdoor spaces organized into five categories with the related Square Footage (SF):

The 1,080 SF of the Cottage South Patio includes:

· 54 café style dining seats

The 3,630 SF of the East Courtyard includes:

122 café style dining seats

The 875 SF of the Barn Stable Patio includes:

• 44 café style dining seats

The 7,148 SF of the West Courtyard includes:

- 116 café style dining seats
- 3,000 SF shade structure
- 100 SF Outdoor BBQ
- 48 SF Outdoor Condiment Counter

The 720 SF of the Outdoor Stage at KUCR includes:

Outdoor Stage and roof

SITE BASED PROJECT SCOPE

In addition to the enclosed ASF and the Programmable Outdoor Space outlined above, the project has considerable site-based scope of work. This includes hardscape, softscape, and shade structures associated with the courtyards, portions of the Barn Walk, and some work at Sproul Loading Dock. It also includes primary and secondary pedestrian paths, 3 parking spaces, and Loading Dock Area and Drive Aisle off West Campus Drive.

Process

OVERVIEW

A series of four workshops and a presentation to the Design Review Board were held on the UC Riverside campus along with several conference calls. Information was presented via large-scale drawings, sketches, and PowerPoint presentations. The workshops were held from early February through mid-April 2010.

WORKSHOP 1: PROGRAM REVIEW AND REFINEMENT; SITE PLAN ANALYSIS; ESTABLISH PROJECT GOALS

- Review 2009 Barn Area Study
- · Interview campus and program representatives
- Discuss site plan options / opportunities / constraints
- · Discuss building and site character
- · Review program for building and site

WORKSHOP 2: SITE PLAN OPTIONS; BUILDING SYSTEMS; SUSTAINABILITY

- Review building systems options
- Discuss sustainability strategies and LEED
- Review site plan
- Review program

WORKSHOP 3: FINALIZE ELEMENTS OF DPP; PREPARE FOR COST ESTIMATE

- Review space program and room requirements
- · Review site plan and space plans
- Discuss parameters for project schedule and implementation plan for design through construction
- Review building systems narratives, including LEED
- Discuss costing parameters and methods

WORKSHOP 4: REVIEW DPP AND COST PLAN

- Review and approve Draft DPP
- Review and approve Draft Cost Plan

DESIGN REVIEW BOARD PRESENTATION

- Review project vision, campus precedents, and supporting documents
- Review project milestones
- · Review and discuss preferred scheme

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CONFERENCE CALL: KUCR

 Discuss program elements and space allocation for KUCR

CONFERENCE CALL: PERFORMANCE ISSUES

- Review types of performances
- Discuss A/V and theatrical design and equipment criteria
- Discuss requirements for Ticket Booth and support spaces
- Review outdoor seating Shade Structure
- Discuss opportunities for shared program areas



INTRODUCTION

Project Goals

- Provide a unique dining and entertainment center.
- Enhance awareness of the Campus's agrarian heritage.
- Serve as a gateway / link between the East Campus and the West Campus.
- Integrate indoor and outdoor spaces to support dining and entertainment programs.
- Provide a well organized, welcoming, secure, and efficient group of buildings.
- Design the buildings to function as a group or independently.
- Achieve a minimum LEED Silver USGBC certification.
- Develop sustainable design as an instructional/ demonstration facility.



INTRODUCTION

Site Analysis of 2009 Barn Area Study

OVERVIEW

A detailed analysis of the 2009 Barn Area Study (BAS) was completed at the start of the project. The purpose of the review was to obtain a common understanding of the site, and identify areas that needed further attention during the DPP. The site analysis diagram and supporting text illustrate the key issues to test and verify in the 2009 BAS site plan.

FLOW & CIRCULATION

The Barn Group, located northwest of the intersection of West Campus Drive and the termination of Eucalyptus Walk, is a gateway site from the community into the core of the East Campus. The Barn Walk links the perimeter to the core of the campus and provides an important service access to Sproul Hall.

A strong pedestrian corridor enters The Barn Group site through the Humanities & Social Sciences Building, and connects to the Barn Walk from the west, while the walkway that runs along the south of Sproul and Watkins Hall connects to the Barn Walk from the east. This linkage must be maintained.

West Campus Drive is a major peripheral Campus loop . Proposed realignment to the road is considered a future project (note: the illustration shows the future road realignment as proposed in the 2009 BAS). The project must be planned to work with both the current and the future road.

Within the site, easy flow from indoor to outdoor should be enhanced to support dining and entertainment and to activate the outdoor spaces.

OUTDOOR SPACES

The project will make a significant contribution to the existing and very successful outdoor spaces on the campus. Two major courtyards (East and West) furnish seating areas that support the Barn's primary activities. A third outdoor space at the termination of Eucalyptus Walk, the South Cottage Patio, could offer an inviting entry to the Barn Walk.

IMPLEMENTATION

Initial Phase 1 & 2 construction can be completed via a series of coordinated projects. Site planning will need to consider how the Barn Theater can be accessed for future development.

AREAS FOR FURTHER INVESTIGATION

Several areas of the BAS are worth revisiting.

- Using the Barn Stable for KUCR may not be the best programmatic fit for the existing building.
- Adding a full basement under the Barn Stable may not be the most cost effective way to gain space.
- The location of the restrooms seems to isolate the Barn Annex program from the East Courtyard.
- The Cottage may need to move north to avoid existing underground utilities.
- Two outdoor performance stages could be combined into one, to improve Campus and site circulation and West Courtyard seating layout.

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HISTORIC CHARACTER-DIMENSIONS AND PROPORTIONS

The character of the existing barn structures should be maintained. Additions should support their character but be distinctly different, while being compatible with the re-purposed barn structures. The dimensions and proportions, as well as the materials and roof configurations, will need to be carefully studied in the design phases. INTRODUCTION

Site Analysis of 2009 Barn Area Study



II. FUNCTIONAL CONCEPTS

The Composite Site Organization Plan and site diagrams were developed through the exploration of alternatives, that built upon the 2009 Barn Area Study and the goals for the project.

Maintaining the character of the existing structures to be repurposed and developing the synergy between the indoor and outdoor spaces for dining and entertainment were the touchstones for the development of the preferred concept.

A series of diagrams present the preferred concept, and show how operational issues (including service access and security) are addressed. A study of potential improvements to the Sproul Hall loading dock was also done.

Composite Site Organization Plan

BUILDINGS

THE BARN

Barn Dining

 Indoor dining and entertainment venue (renovation)

Kitchen Addition

Main Kitchen supporting The Barn Group (new construction)

COTTAGE

• Coffee house with some limited food service (renovation and relocation)

BARN STABLE

 Multipurpose event venue (renovation of relocated structure and new construction)

BARN THEATER

• Rehearsal and performance space for CHASS (future phase renovation and addition)

KUCR

Purpose built radio station (new construction)

OUTDOOR SPACES

EAST COURTYARD

Quiet dining courtyard

WEST COURTYARD

 Outdoor entertainment and dining venue including covered Outdoor Stage and Shade Structure

BARN STABLE PATIO

• Outdoor dining area

SOUTH COTTAGE PATIO

Outdoor dining area

Composite Site Organization Plan

OVERVIEW

Project site is located at the southwest edge of the campus core, and is crisscrossed by vibrant pedestrian pathways.

The site plan organizes the buildings and land to frame a series of outdoor rooms, while enhancing the pedestrian pathways throughout.

The East Courtyard will provide for quiet outdoor dining and is framed by two historically significant buildings; the relocated Cottage, a coffeehouse and entrance marker for the East Campus; and The Barn, a cultural dining and entertainment venue.

The West Courtyard will host a variety of live performances as well as provide space for outdoor dining. It is framed by The Barn, the Barn Theater, and KUCR.

The relocated Barn Stable frames a patio providing a more intimate indoor/outdoor venue for various events including faculty gathering and weddings.

Service for the Kitchen Addition and KUCR is screened by the landscape strip along West Campus Drive.

NOTE: The conceptual vertical control points shown are relative to each other but not related to USGS survey heights. They are to be verified, during design, once a site survey is available.



Site Diagrams

OUTDOOR SEATING

This diagram illustrates a potential seating arrangement and necessary areas to meet the required seat count. These areas are based on approximately 20 SF per seat.



Site Diagrams

SECURITY

The goal is to secure the three courtyards while allowing through-site access between the Barn Walk and CHASS.

The West Courtyard has three points of access, with its primary entrance being to the east, where tickets will be sold and people will queue for events.

The East Courtyard and Barn Stable Patio can both be independently isolated and secured.



Site Diagrams

ON-SITE SERVICE CIRCULATION

The majority of service circulation will be accomplished on-site with carts pushed by hand.

The Kitchen Addition serves as the service core for dining operations onsite. It will provide food storage and preparation for Barn Dining, East and West Courtyards, Barn Annex, and Cottage. It will also serve as an area of preparation for catered events elsewhere on the campus (see food service narrative).



Site Diagrams

SITE CIRCULATION

SERVICE VEHICLES

West Campus Drive is a major peripheral campus loop road and provides access to The Barn Group. This service access is separated from West Campus Drive by a landscaped median that will screen the facilities. Service access to The Barn will be from the Loading Dock at the southwest corner of the Kitchen Addition. This service lane also provides access to KUCR's three parking spaces. Service access to the Sproul Hall Loading Dock will be from a service road that parallels the Barn Walk.

BICYCLES

Bicyclists will move with traffic along West Campus Drive and connect to East Campus via the Barn Walk service road.

PEDESTRIANS

The Barn Walk links the perimeter to the core of the East Campus. It is the terminus of both Eucalyptus Walk and the walk just south of Sproul Hall and Watkins Hall. A strong pedestrian corridor enters the Barn Group through the College of Humanities, Arts, and Social Sciences (CHASS) Building from the northeast, and connects to the Barn Walk. Should entertainment events close the West Courtyard to through traffic, pedestrians can walk through the orange grove just south of CHASS. West Campus Drive is a major peripheral campus loop road for pedestrians as well as vehicles.



Site Diagrams

TRUCK TURNING

Truck turning for the largest delivery truck was studied with the following goals:

- Allow for a drive aisle to also serve KUCR parking
- Allow clearance for a car to pass alongside a delivery vehicle
- Provide a strong pedestrian experience along West Campus Drive



Site Diagrams

UTILITY POINTS OF CONNECTION

See civil narrative for information on utility points of connection.



Site Diagrams

ALTERNATE SPROUL LOADING DOCK

The 2009 Barn Area Study proposed major modifications to the Sproul Hall Loading Dock to address several issues. One of the issues identified with the existing loading dock is the need for the front-loading trash collection vehicles to back up to West Campus Drive when exiting. While the costs for any work associated with the Sproul Hall Loading Dock (east of the curb at the Barn Walk) are not included in the budget of the Barn Project Phases 1 & 2, three options were explored for this report:

- Maintain the existing configuration.
- Reconfigure the service vehicle spaces and screen the recycling/ trash bins within a new enclosure (as illustrated in the Composite Site Organization Plan, page 13.
- Provide a new loading dock between the Sproul Hall buildings as well as the modifications mentioned in option 2 above (as illustrated in the diagram on this page).

Each option will need to allow for through access to the Carillon Mall by Fire Department vehicles.



III. PROGRAM

The unique dining and entertainment opportunities offered by the facilities, and the site's rich agrarian and cultural heritage were emphasized throughout the planning process. The addition of KUCR to the site increases the breadth of entertainment possibilities, while giving the station a new and more functional facility.

The identity and character of the project—within the campus, within the Riverside community, and within the UC system—are addressed in relation to the unique functional requirements that are the basis of the program. The Project Area Summary and the Room Data Sheets summarize these requirements.

Project Area Summary

BUILDING AND ASSOCIATED OUTDOOR AREAS	ASF	BASIC GROSS TOTAL	Covered Area (SF)	OGSF100	OGSF50	SF ¹	Indoor Dining Seating	Outdoor Dining Seating	
COTTAGE	739	879	356	1,235	1,057				
THE BARN: BARN DINING & KITCHEN ADDITION	6,473	8,647	635	9,282	8,964		94		
	1 070	0.107	100						
BARN STABLE	1,870	2,467	100	2,567	2,517		42		
KUCR	2,946	4,423		4,423	4,423				
	2 012	2 465		2 465	2 465				
BARN THEATER ²	3,013	3,403		3,403	3,403				
SOUTH COTTAGE PATIO (OUTDOOR) ³						1,080		54	
						3,630		122	
						0,000			
WEST COURTYARD (OUTDOOR) ^{5, 6}			974			7,148		116	
BARN STABLE PATIO (OUTDOOR)						875		44	
TOTAL 15,041 19,880 2,065 20,971 20,426 12,733 136 335									
¹ Outdoor areas are calculated in square leet (SF).	Project Phase	a 1 and 2 ar	and por the a	000 Barn Ara	a Study (PAS	2)			
3 The South Cottage Patio has outdoor café seating ad	liacent to the	5 1 anu 2, are	eas per life z	009 Dain Ale	a Sludy (DAS	·)-			
The outdoor dining conting in the East Courtward includes posting for the Barn Dining and the Cottage									
⁵ The covered Outoor Stage adjacent to KUCB at the West Courtvard has a Covered Area of 974 SE									
⁶ The outdoor Shade Structure (3 000 SF) at the West Courtvard is included in total outdoor area of the West Courtvard									

AREA DESCRIPTION	NEW CONSTRUCTION	RENOVATION OF EXISTING BUILDING	TOTAL
COTTAGE			
ASSIGNABLE (ASF): SERVING			
Lobby		151	151
Serving Area		150	150
Customer Queuing		120	120
Self-Serve Condiment Counter & Queuing		24	24
SUBTOTAL	0	445	445
ASF: BACK OF HOUSE SUPPORT			
Dry Storage		64	64
Retrigerated Storage - Bulk		36	36
Storage		55	55
Office		55	55
Pot-washing		60	60
		24	24
	0	730	730
	Ū	100	100
NON-ASSIGNABLE (NON-ASF) SPACES			
Telecom/Electrical		25	25
NON-ASSIGNABLE TOTAL	0	25	25
NET TOTAL ASF & NON-ASF	0	764	764
Grossing Factor (15%)	0	115	115
BASIC GROSS TOTAL	0	879	879
ASF to GSF Ratio	0%	84%	84%
Entranco Arcado		45	15
Front Porch		43	45
Back Porch		174	137
PROGRAMMABLE COVERED OUTDOOR TOTAL	0	356	356
OGSF100	0	1,235	1,235
OGSF50	0	1,057	1,057
PROGRAMMABLE OUTDOOR SPACE			
Outdoor Seating - East Courtyard ²	1 000		1 000
Outdoor Seating - South Cottage Patio	1,080		1,080
TOTAL OUTDOOR SPACE	2,080	0	2,080
¹ Outdoor areas are calculated in square feet (SF).			
² Assume 20 SF / Person for outdoor seating:			
Outdoor Seating - East Courtyard	1,000	/ 20 = 50	
Outdoor Seating - South Cottage Patio	1,080	/ 20 = 54	
Total Outdoor Cottage Seating		104	

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THE BARN: BARN DINING/ KITCHEN ADDITION	(continued)		
NON-PROGRAMMABLE COVERED OUTDOOR SPACE			
Covered space	100		100
Covered Loading Dock Area	535		535
NON-PROGRAMMABLE COVERED OUTDOOR TOTAL	635		635
OGSF100			9,282
OGSF50			8,964
PROGRAMMABLE OUTDOOR SPACE ³			
Outdoor Dining Seating - East⁴	1 450		1 450
	1,450		1,450
Outdoor Dining Seating - West	2,375		2,375
Outdoor Gathering/Circulation - East	1,180		1,180
Outdoor Gathering Area - West	485		485
Outdoor Pit (Gathering) - West	650		650
Outdoor Overflow Gathering Area- West	1,320		1,320
Outdoor Circulation - West	2,170		2,170
Outdoor BBQ	100		100
Outdoor Condiment Counter & Queuing	48		48
SUBIOIAL	9,778	0	9,778
NON-PROGRAMMABLE OUTDOOR SPACE			
Loading Dock⁵	2 465		2 465
SUBTOTAL	3.465	0	3.465
TOTAL OUTDOOR SPACE	13,243	0	13,243
Assume 20 SF / Person for indoor dining seating:			
Indoor Seating	1,870 ASF	/20 = 94	
² Restroom area total include the East Courtyard and We	st Courtyard Rest	rooms.	
³ Outdoor areas are calculated in square feet (SF).			
Assume 20 SF / Person for outdoor dining seating:			
Outdoor Dining Seating - East	1,450 / 20 =	72	
Outdoor Dining Seating - West	2,375 / 20 =	116	
⁵ Loading Dock includes space for truck and/or vehicle			
parking and is adjacent to Covered Loading Dock Area.			

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THE BARN: BARN DINING/ KITCHEN ADDITION			
Cold Pren	579		579
Soda Boom / Ice Machine	82		82
Hot Production (Cook Line & Grille)	408	153	561
Refrigerated Storage - Bulk Food	120	100	120
Refrigerated Storage - Finished Product Cooler	120		120
Refrigerated Storage - Beer Cooler	80		80
Frozen Storage	120		120
Dry Storage - Food	340		340
Dry Storage - Liguor	30		30
Dry Storage - Catering Equipment	80		80
Receiving, Recycling and Outbound Staging	160		160
SUBTOTAL	2,119	153	2,272
ASF: WARE-WASHING			
Dishwashing & Pot-washing Combined	127		127
Janitor's Closet	32		32
SUBTOTAL	159	0	159
ASF: BACK OF HOUSE SUPPORT			
Unisex Changing Room & Lockers	56		56
Manager's Office	80		80
Production Office	80		80
SUBTOTAL	216	0	216
ASF: SERVING			
Serving Area		800	800
Customer Queuing		360	360
Self-Serve Beverage Counter & Queuing		65	65
Double-sided Service Bar	136		136
Self-Serve Condiment Counter & Queuing		65	65
SUBTOTAL	136	1,290	1,426
ASF: INDOOR SEATING & STAGE			
Indoor Seating ¹		1,870	1,870
Indoor Stage	280	,	280
Green Room	150		150
Ticket Booth	100		100
SUBTOTAL	530	1,870	2,400
ASSIGNABLE TOTAL	3,160	3,313	6,473
Stage Dower & Dimmere	50		EO
Stage Fower & Diffiniters Machanical	200		200
Telecom Closet	1200		1200
Flectrical Room	61		61
	01		
Public Restrooms (4) ²	665	-	665
NON-ASSIGNABLE TOTAL	1,046	0	1,046
	1 206	2 212	7 510
Grossing Easter (15%)	4,200	3,313	1 1 2 9
BASIC GROSS TOTAL	4 837	3 810	8 6/17
ASE TO GSE RATIO	65%	87%	75%
	5070		

AREA DESCRIPTION	NEW CONSTRUCTION	RENOVATION OF EXISTING BUILDING	TOTAL
RADNISTARIE (formarily known on "Parn Annov")			
ASSIGNABLE (ASF)			
Meeting Room ¹ Bar Lobby	328	868 100	868 100 328
Kitchen Storage		254 70	254 70
Storage for tables and chairs	250		250
ASSIGNABLE TOTAL	578	1,292	1,870
NON-ASSIGNABLE (NON-ASF) SPACES Mechanical Telecom Closet	100 48		100 48
Public Restrooms (2)	127		127
NON-ASSIGNABLE TOTAL	275	0	275
NET TOTAL ASF & NON-ASF	853	1,292	2,145
Grossing Factor (15%)	128	194	322
BASIC GRUSS TOTAL	981 50%	1,480	2,407
	3370	01/0	1070
OUTDOOR SPACE ²			
Covered Outdoor Space	100		100
NON-PROGRAMMABLE COVERED OUTDOOR TOTAL	100	0	100
OGSF100	_		2,567
OGSF50			2,517
	1	1	
OUTDOOH SPACE			
Barn Stable Patio ³	875		875
TOTAL OUTDOOR SPACE	875	0	875
¹ Assume 20 SF / Person for indoor dining seating: Meeting Room	868	ASF / 20 =	42
² Outdoor areas are calculated in square feet (SF).			
³ Assume 20 SF / Person for outdoor dining seating: Barn Stable Patio	875	/ 20 =	44

AREA DESCRIPTION	NEW CONSTRUCTION	RENOVATION OF EXISTING BUILDING	TOTAL
KUCR			
ASF: PRODUCTION			
Studio: Master Control	190		190
Studio: Production Room A Studio: Production Room B	110		110
Studio: Interview/Program Host	110		110
Edit Post/Prodution Boom #1	48		48
Edit Post/Prodution Room #2	48		48
SUBTOTAL	616	0	616
ASF: OTHER SPACES			
Library	900		900
Office Service / Kitchenette	75		75
Storage - Remote Live Equipment Private Office (Director)	110		110
Private Office (Asst. Dir /Program Dir)	110		110
Private Office (Music Dept.)	110		110
Private Office (Engineering)	110		110
Private Office (Administrative Assistant)	110		110
Open Office (shared workspace) ¹	90		90
Open Office (News/Public Affairs) ²	90		90
Server/Transmission Equipment Room	100		100
Lobby	275		275
Backstage Space (secure)	150	0	150
	2,940	0	2,940
NON-ASSIGNABLE (NON-ASF) SPACES			
Circulation	485		485
Mechanical/Electrical	200		200
Telecom Closet	100		100
Public Restrooms (2)	115 900	0	115 900
	300		300
NET TOTAL ASF & NON-ASF	3,846	0	3,846
Grossing Factor (15%)	577	0	577
BASIC GROSS TOTAL	4,423	0%	4,423
ASF TO GSF RATIO	01%	0%	01%
OGSF100			4,423
OGSF50			4,423
PROGRAMMABLE COVERED OUTDOOR SPACE			
Outdoor Stage Roof Overhang	254		254
PROGRAMMABLE COVERED OUTDOOR TOTAL	, 20 974		, 20 974
¹ Four work stations are provided in the "Open Office (shared works ² Four work stations are provided in the "Open Office News/Public <i>J</i> ³ Outdoor areas are calculated in source feet (SE)	space)" Affairs"		

AREA DESCRIPTION	2009 BAS
BARN THEATER'	
Rehearsal 01	1 140
Office	288
Rehearsal 02	765
Locker/Restroom	313
Storage	507
ASSIGNABLE TOTAL	3,013
NON-ASSIGNABLE (NON-ASF) SPACES	
Public Restrooms	
NON-ASSIGNABLE TOTAL	0
NET TOTAL ASF & NON-ASF	3,013
Grossing Factor (15%)	452
BASIC GROSS TOTAL	3,465
ASF TO GSF RATIO	87%
000000	2.465
0035100	3,400
	3,403
	[
Exterior Stopp3	
	670
	0/0
¹ The Barn Theater is not part of the Barn Project Phases 1 and 2. Barn Theater areas are per the 2009	

Site & Building Adjacency Diagrams

COTTAGE





Site & Building Adjacency Diagrams

THE BARN: BARN DINING / KITCHEN ADDITION



Site & Building Adjacency Diagrams

BARN STABLE





Site & Building Adjacency Diagrams

KUCR



Site & Building Adjacency Diagrams

SITE



Comprehensive Space Plans

COTTAGE






Comprehensive Space Plans



34



Comprehensive Space Plans

BARN STABLE

SCALE







36

SCALE

Room Data Sheets

ABBREVIATIONS

- A/V Audio/Visual
- CFM Cubic feet per minute (ventilation)
- FC Foot-candles
- FRP Fiberglass-reinforced plastic
- FSC Forest Stewardship Council
- HVAC Heating, Ventilation, and Air Conditioning
- NA Not applicable
- NC Noise Criteria
- POS Point of sale
- STOR Storage
- U/C Under-counter
- V Volts
- WAP Wireless Access Point

Room Data Sheets

COTTAGE: SERVING

GENERAL INFORMATION

Area for customers to gather.

TOTALASF
NUMBER OF OCCUPANTS
ADJACENCIES
VIEWS
MINIMUM CEILING HEIGHT
ACCESSIBILITY
SCALE

151 25 (maximum) Serving Area, Office, Front and Back Porch East Courtyard, Cottage South Patio 8'-0" Per code 1/8" = 1'-0"

CUSTOMER QUEUING LOBBY

MATERIALS AND FINISHES

CEILING	Wood or other high-end finish	
WALLS / BASE	Gypsum board with wood wainscotting	
FLOORS	Wood refinish and match existing	
WINDOWS	Wood double glaze, match existing	
DOORS	Wood refinish existing where possible	
DOOR FRAMES	Wood refinish existing where possible	

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable	
ELECTRICAL	120 V / 1 Phase	
LIGHTING	Downlights, ceiling mount linear fluorescents, architectural sconces, 20-30 FC. Controlled via a central time clock system and provided with an override switch	
MECHANICAL	HVAC. Individual zone control/thermostat. Air curtains with door actuation switches at exterior doors	
PLUMBING	NA	
SECURITY	Rough-in for camera, Key access, Window sash locks, Magnetic contacts at exterior doors and windows	
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe	
VOICE/DATA	WAP	
MEDIA	Ceiling loudspeakers	

FURNITURE + EQUIPMENT

BUILT-IN	Bar counters, existing fireplace (repair)	
FIXED	NA	
MOVABLE	Trash, recycling and dish bussing station	
OTHER	Repair fireplace as necessary for structura	
	integrity to allow for operation	

ACOUSTICS

ACOUSTICAL MEASURES Sound absorbing ceiling treatment BACKGROUND NOISE CRITERIA NC-35

Room Data Sheets

COTTAGE: SERVING **SERVING AREA**

GENERAL INFORMATION

Area for serving customers.

TOTALASF	150
NUMBER OF OCCUPANTS	5
ADJACENCIES	Lobby, Service access
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Wood or other high-end finish	
WALLS / BASE	Gypsum board with wood wainscotting	
FLOORS	Quarry tile or resin	
WINDOWS	Wood double glaze, match existing	
DOORS	Wood refinish existing where possible	
DOOR FRAMES	Wood refinish existing where possible	

FURNITURE + EQUIPMENT

BUILT-IN			window	sash locks,
FIXED	Point of sale (POS) (2) nick-up counter coffee	FIRE PROTECTION	Sprinkle	r, 120 V har
TIXED	sourten blanden sourten band sink flash sink far	VOICE/DATA	1 phone	/ 1 data at o
	espresso machine	MEDIA	NA	
MOVABLE	Trash and recycling containers	ACOUSTICS		
OTHER	Espresso and coffee machines, blenders,		DES	Sound abo
	bakery display case (2 sections: ambient and			
	refrigerated), oven, ice bin, grinders, under-	DACKGROUND NOISE	CRITERIA	NC-45
	counter refrigerator (2)			

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	
ELECTRICAL	120/208 V / 3 Phase, Quad receptacle at each POS
LIGHTING	Ceiling mount linear fluorescent with acrylic lens, 40-50 FC. Controlled via
	Occupancy Sensor/Switch
MECHANICAL	HVAC. Exhaust air at kitchen hoods with interlocked tempered make-up air. Air
	curtains with door actuation switches at exterior doors
PLUMBING	Hot and cold water, sanitary sewer for equipment as required, gas
SECURITY	Rough-in for cameras above each POS, Panic alarm, Card key access ext. door,
	Window sash locks, Magnetic contacts at exterior door and windows
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	1 phone / 1 data at each POS, as well as at least one on each wall
MEDIA	NA

sorbing ceiling treatment



Room Data Sheets

COTTAGE: SERVING CUSTOMER QUEUING

GENERAL INFORMATION

Serpentine queue system (next available cashier). Seating will not be provided.

TOTALASF	120
NUMBER OF OCCUPANTS	4
ADJACENCIES	Lobby
VIEWS	East C
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per co
SCALE	1/8" =

bby, Servery st Courtyard, Cottage South Patio 0" r code 3" = 1'-0"

CUSTOMER QUEUING LOBBY

MATERIALS AND FINISHES

CEILING	Wood or other high-end finish
WALLS / BASE	Gypsum board with wood wainscotting
FLOORS	Wood refinish and match existing
WINDOWS	Wood double glaze, match existing
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central
	time clock system with override switches.
MECHANICAL	HVAC. Air curtains with door actuation switches at exterior doors
PLUMBING	NA
SECURITY	Key access, Window sash locks, Magnetic contacts at exterior doors and
	windows
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	WAP
MEDIA	Ceiling Loudspeakers

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES Sound absorbing ceiling treatment BACKGROUND NOISE CRITERIA NC-35

SELF-SERVE CONDIMENT COUNTER & QUEUING

PROGRAM

Room Data Sheets COTTAGE: SERVING **SELF-SERVE CONDIMENT COUNTER & QUEUING**

GENERAL INFORMATION

Located away from Serving counter.

TOTAL ASF	24
NUMBER OF OCCUPANTS	1
ADJACENCIES	Lobby, Servery
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"



MATERIALS AND FINISHES

CEILING	Wood or other high-end finish
WALLS / BASE	Gypsum board with wood wainscotting
FLOORS	Wood refinish and match existing
WINDOWS	Wood double glaze, match existing
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V convenience receptacles (2)
LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central
	time clock system with override switches.
MECHANICAL	HVAC. Air curtains with door actuation switches at exterior doors
PLUMBING	NA
SECURITY	Rough-in for camera, Key access, Window sash locks, Magnetic contacts at
	exterior doors and windows
FIRE PROTECTION	Sprinkler
VOICE/DATA	WAP
MEDIA	Ceiling Loudspeakers

FURNITURE + EQUIPMENT

BUILT-IN	Millwork condiment counter
FIXED	NA
MOVABLE	Trash container below counter
OTHER	For milk, toppings, napkins, lids, stirs,
	and straws

ACOUSTICS

ACOUSTICAL MEASURES

Sound absorbing ceiling treatment BACKGROUND NOISE CRITERIA NC-35

Room Data Sheets

COTTAGE: BACK OF HOUSE SUPPORT **DRY STORAGE**

GENERAL INFORMATION

Storage of dry goods.

64
NA
Servery, Service entrance
NA
8'-0"
Per code
1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Gypsum board with FRP wainscotting
FLOORS	Quarry tile or resin
WINDOWS	Wood double glaze, match existing
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch
MECHANICAL	Ventilation
PLUMBING	NA
SECURITY	Window sash locks, Magnetic contacts at exterior window
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

A	C	0	U	S	Т	10	С	S
	_			_		_	_	



Room Data Sheets COTTAGE: BACK OF HOUSE SUPPORT REFRIGERATED STORAGE - BULK

GENERAL INFORMATION

Storage of bulk refrigerated goods.

TOTAL ASF	36
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Servery, Service entrance
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Gypsum board with FRP wainscotting
FLOORS	Quarry tile or resin
WINDOWS	Wood double glaze, match existing
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Factory-installed (included with refrigerator)
MECHANICAL	Ventilation
PLUMBING	NA
SECURITY	Window sash locks, Magnetic contacts at exterior window
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	2-door reach-in refrigerator
MOVABLE	NA
OTHER	NA

ACOUSTICS



Room Data Sheets

COTTAGE: BACK OF HOUSE SUPPORT **STORAGE**

GENERAL INFORMATION

General storage.

TOTALASF	55
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Office, open to Telecom/Electrical Closet
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Wood or other high-end finish
WALLS / BASE	Gypsum board with wood wainscotting
FLOORS	Wood refinish and match existing
WINDOWS	Wood double glaze, match existing
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

120 V / 1 Phase
Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
Controlled with Occupancy Sensor/Switch
Ventilation
NA
Card key access, Window sash locks, Magnetic contacts at exterior window,
Camera at entry door
Sprinkler
NA
NA
S NA
RITERIA NC-55



Room Data Sheets

COTTAGE: BACK OF HOUSE SUPPORT **OFFICE**

GENERAL INFORMATION

Space for managers to work and place their belongings and for cash counting.

TOTALASF	55
NUMBER OF OCCUPANTS	1
ADJACENCIES	Open to Storage,
	Telecom/electrical Closet
VIEWS	Exterior
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Wood or other high-end finish
WALLS / BASE	Gypsum board with wood wainscotting
FLOORS	Wood refinish and match existing
WINDOWS	Wood double glaze, match existing
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Direct/Indirect linear pendants, 10-20 FC. Task lights 30-40 FC. Controlled via
	Occupancy Sensor/Switch.
MECHANICAL	HVAC
PLUMBING	NA
SECURITY	Card key access, Window sash locks, Magnetic contacts at exterior window,
	Camera over cash counting area
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data, at least one on each wall
MEDIA	Lobby/Porch audio source equipment

FURNITURE + EQUIPMENT

BUILT-IN	Desk and computer table
FIXED	NA
MOVABLE	Chair and file cabinet
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES	Sound absorbing ceiling treatment
BACKGROUND NOISE CRITERIA	NC-35



BACK OF HOUSE

POT-WASHING



Room Data Sheets

COTTAGE: BACK OF HOUSE SUPPORT **POT-WASHING**

GENE	RAL	INFORMATION

Space for washing.

TOTALASF	60
NUMBER OF OCCUPANTS	1
ADJACENCIES	Servery
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Gypsum board

Quarry tile or resin

DOOR FRAMES Wood -- refinish existing where possible

tile base

WALLS / BASE Gypsum board with FRP with resin or quarry

Wood -- double glaze, match existing Wood -- refinish existing where possible

MATERIALS AND FINISHES

CEILING

FLOORS

DOORS

WINDOWS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	30 FC, Occupancy sensors
MECHANICAL	Ventilation required at chem stor
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	Window sash locks, Magnetic contacts at exterior window
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	3-compartment sink, wall shelf, mop sink
	chemical storage shelf
MOVABLE	NA
OTHER	NA

ACOUSTICS

MAY	28.	2010
	20,	2010

Room Data Sheets COTTAGE: BACK OF HOUSE SUPPORT ICE MAKING / PREP / MISC. SUPPORT

GENERAL INFORMATION

TOTAL ASF	24
NUMBER OF OCCUPANTS	1
ADJACENCIES	Servery, Service Entrance
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

Gypsum board

Quarry tile or resin

DOOR FRAMES Wood -- refinish existing where possible

tile base

WALLS / BASE Gypsum board with FRP with resin or quarry

Wood -- double glaze, match existing Wood -- refinish existing where possible

CEILING

FLOORS

DOORS

WINDOWS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120/208 V / 1 Phase
LIGHTING	48" recessed fluorescent fixtures with plastic lens covers
MECHANICAL	Ventilation, ice machine and refrigerator heat rejection of 11.2 MBTU
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	Window sash locks, Magnetic contacts at exterior window
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Ice machine, prep counters
MOVABLE	NA
OTHER	NA

ACOUSTICS



Room Data Sheets COTTAGE: NON-ASSIGNABLE SPACES TELECOM / ELECTRICAL CLOSET

GENERAL INFORMATION

Area for telecom and electrical equipment that is open to Storage. Access to the equipment will need to be maintained (approach TBD during design). Code-required clearances will need to be provided for the electrical dimensions of equipment TBD during design.

TOTAL NON-ASF	25
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Open to Storage
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Fire resist. Plywood / wood
FLOORS	Resilient
WINDOWS	NA
DOORS	Wood refinish existing where possible
DOOR FRAMES	Wood refinish existing where possible

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Exhaust
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data
MEDIA	Telecom equipment will need physical protection

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

ACOUSTICS



Room Data Sheets COTTAGE: PROGRAMMABLE COVERED OUTDOOR SPACE FRONT PORCH / ENTRANCE ARCADE

GENERAL INFORMATION

The front porch/entrance arcade is the front door for the cottage

TOTAL SF	182
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Lobby, Barn Walk, Cottage South Patio
VIEWS	Barn Walk, West Campus Drive, Eucalyptus Walk
MINIMUM CEILING HEIGHT	7'-6"
ACCESSIBILITY	Per code, 5' wide 1:12 ramp, possible ADA
	conflict at entry door (see diagram). Accessibility
	issues will be addressed during design.
SCALE	1/8" = 1'-0"



MATERIALS AND FINISHES

CEILING	Wood, painted
WALLS / BASE	Wood siding, painted
FLOORS	Wood decking and colored concrete
WINDOWS	Wood painted
DOORS	Wood painted
DOOR FRAMES	Wood painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase, Lockable outdoor outlet
LIGHTING	NA
MECHANICAL	Air curtains with door actuation switches at exterior door
PLUMBING	NA
SECURITY	NA
FIRE PROTECTION	Sprinklers at covered areas
VOICE/DATA	NA
MEDIA	Outdoor loudspeakers

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

ACOUSTICS

Room Data Sheets

COTTAGE: PROGRAMMABLE COVERED OUTDOOR SPACE **BACK PORCH**

GENERAL INFORMATION

Primarily an exterior circulation space, this area is the public "back door" to the cottage.

TOTAL SF	174
NUMBER OF OCCUPANTS	NA
ADJACENCIES	East Courty
VIEWS	East Courty
MINIMUM CEILING HEIGHT	7'-6"
ACCESSIBILITY	Per code,
SCALE	1/8" = 1'-0"

NA East Courtyard, Lobby East Courtyard, Lobby 7'-6" Per code , 5' wide, 1:12 ramp 1/8" = 1'-0"



MATERIALS AND FINISHES

CEILING	Wood, painted
WALLS / BASE	Wood siding, painted
FLOORS	Wood decking and colored concrete
WINDOWS	Wood, painted
DOORS	Wood, painted
DOOR FRAMES	Wood, painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase, Lockable outdoor outlet
LIGHTING	NA
MECHANICAL	Air curtains with door actuation switches at exterior doors
PLUMBING	NA
SECURITY	NA
FIRE PROTECTION	Sprinklers at covered areas
VOICE/DATA	NA
MEDIA	Outdoor loudspeakers

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

ACOUSTICS

Room Data Sheets

BARN DINING: PRODUCTION KITCHEN **COLD PREP**

GENERAL INFORMATION

Cold production for Barn, Barn/University Club catering, and 425 pieces packaged grab-and-go products daily.

TOTALASF	579
NUMBER OF OCCUPANTS	5
ADJACENCIES	Hot Production, Storage, Dishwashing
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

20-quart mixer, slicer, vegetable processor,

food chopper, salad dryer

SEE HOT PRODUCTION FOR DIAGRAM

MATERIALS A	ND FINISHES	BUILDING SYSTEM R	EQUIREMENTS
CEILING	Vinyl faced lay-in	DAYLIGHTING	North facing clerestory windows
WALLS / BASE	White FRP	ELECTRICAL	120/208 V / 3 Phase, Quad receptacle at POS
FLOORS	Quarry tile or poured resin	LIGHTING	48" recessed fluorescent fixtures with plastic lens covers, occupancy sensors
WINDOWS	Aluminum	MECHANICAL	HVAC / Exhaust / Chilled water supply and return; conditioned primarily by
DOORS	Hollow metal painted door		make-up air; air curtains with door actuation switches at exterior doors
DOOR FRAMES	Hollow metal painted	PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required,
			Grease interceptor
FURNITURE +	EQUIPMENT	SECURITY	Card key access at exterior door, Window sash locks, Magnetic contacts at
BUILT-IN	NA		exterior door and windows
FIXED	Stainless steel counters, undercounter prep	FIRE PROTECTION	Sprinkler
	refrigerator (2), work tables with sinks,	VOICE/DATA	1 phone
	hand sink, vegetable prep sinks	MEDIA	NA
MOVABLE	Mobile pan racks, double overshelves,	ACOUSTICS	
	trash containers, hot and cold catering		

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-50

OTHER

carts

Room Data Sheets BARN DINING: PRODUCTION KITCHEN **HOT PRODUCTION** (COOK LINE & GRILLE)

GENERAL INFORMATION:

Grill line adjacent to Servery with pass-through window for finished products; Bulk hot production line to include finish baking capability.

Chef's counter, 40-gallon tilting skillet, 25-gallon

tilting kettle, pressure fryer (2), vertical toaster

TOTAL ASF	561
NUMBER OF OCCUPANTS	3
ADJACENCIES	Cold Prep, Servery
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

DIAGRAM ON FOLLOWING PAGE

MATERIALS A	ND FINISHES	BUILDING SYSTEMS	
CEILING	Vinyl faced lay-in	DAYLIGHTING	North facing clerestory windows.
WALLS / BASE	White FRP	ELECTRICAL	120/208 V / 3 Phase
FLOORS	Quarry tile or poured resin	LIGHTING	48" recessed fluorescent fixtures with plastic lens covers, occupancy sensors;
WINDOWS	Aluminum		exhaust hoods will have internal lighting
DOORS	Hollow metal painted door	MECHANICAL	HVAC / Exhaust / Chilled water supply and return; make-up air will be
DOOR FRAMES	Hollow metal painted		tempered; air curtains with door actuation switches at exterior doors
		PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required,
FURNITURE +	EQUIPMENT		Grease interceptor
BUILT-IN	36" clamshell grill (2), exhaust hoods, double-	SECURITY	Card key access at exterior door, Window sash locks, Magnetic contacts at exterior doors and windows
	convection over 6-burner range with over	FIRE PROTECTION	R-102 / UL-300, cooking fire protection system
FIXED	Pot racks sheet pan storage frver (4) with filter	VOICE/DATA	NA
	and pump to oil collection tank. freezer, under	MEDIA	NA
	counter prep refrigerator, expediter counter with		
	crumb rail, 3-pan hot food well	ACOUSTICS	
MOVABLE	Bun racks	ACOUSTICAL MEASURE	IS NA

BACKGROUND NOISE CRITERIA NC-50

OTHER



Room Data Sheets BARN DINING: PRODUCTION KITCHEN REFRIGERATED STORAGE - BULK FOOD

GENERAL INFORMATION

Walk-in refrigerated storage.

TOTALASF	120
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving, Cold Prep
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Insulated panels
WALLS / BASE	Insulated panels
FLOORS	Insulated panels, quarry tile, or resin
WINDOWS	NA
DOORS	Insulated with windows
DOOR FRAMES	Part of Cold Room

BUILDING SYSTEM REQUIREMENTS

	NA
DATLIGITTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Ventilation
PLUMBING	Waste indirect, 36" trench drain outside of door
SECURITY	NA
FIRE PROTECTION	Sprinkler with freeze protection
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Walk-in cooler / evaporator coil
MOVABLE	Shelving
OTHER	Remote compressor, temperature alarm

ACOUSTICS



Room Data Sheets BARN DINING: PRODUCTION KITCHEN REFRIGERATED STORAGE - FINISHED PRODUCT COOLER

GENERAL INFORMATION

Walk-in refrigerated storage.

TOTAL ASF	120
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving, Cold Prep
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Insulated panels
WALLS / BASE	Insulated panels
FLOORS	Insulated panels, quarry tile, or resin
WINDOWS	NA
DOORS	Insulated with windows
DOOR FRAMES	Part of Cold Room

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Ventilation
PLUMBING	Waste indirect, 36" trench drain outside of door
SECURITY	NA
FIRE PROTECTION	Sprinkler with freeze protection
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Walk-in cooler / evaporator coil
MOVABLE	Shelving
OTHER	Remote compressor, temperature alarm

ACOUSTICS



Room Data Sheets BARN DINING: PRODUCTION KITCHEN REFRIGERATED STORAGE - BEER COOLER

GENERAL INFORMATION

Walk-in refrigerated storage.

TOTALASF	80
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving, Cold Prep
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Insulated panels
WALLS / BASE	Insulated panels
FLOORS	Insulated panels, quarry tile, or resin
WINDOWS	NA
DOORS	Insulated with windows
DOOR FRAMES	Part of Cold Room

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Ventilation
PLUMBING	Waste indirect, 36" trench drain outside of door
SECURITY	NA
FIRE PROTECTION	Sprinkler with freeze protection
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Walk-in cooler (lockable) / evaporator
	coil, beer system
MOVABLE	Keg racks
OTHER	Remote compressor, temperature alarm

ACOL

ACOUSTICS



Room Data Sheets BARN DINING: PRODUCTION KITCHEN FROZEN STORAGE

GENERAL INFORMATION

Walk-in frozen storage

TOTALASF	120
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving, Cold Prep
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Insulated panels
WALLS / BASE	Insulated panels
FLOORS	Insulated panels, QT, or resin
WINDOWS	NA
DOORS	Insulated with windows
DOOR FRAMES	Part of Cold Room

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Ventilation
PLUMBING	Waste indirect, 36" trench drain outside of door
SECURITY	NA
FIRE PROTECTION	Sprinkler with freeze protection
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Walk-in freezer / evaporator coil
MOVABLE	Shelving
OTHER	Remote compressor, temperature alarm

ACOUSTICS



Room Data Sheets BARN DINING: PRODUCTION KITCHEN DRY STORAGE - FOOD

GENERAL INFORMATION

Dry storage for bulk food items.

TOTALASF	340
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Vinyl faced lay-in
WALLS / BASE	White FRP
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	Hollow metal painted door
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	Wire-rack shelving
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase convenience receptacle
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	HVAC; 0.15 cfm/sf ventilation, humidity sensor
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler with freeze protection
VOICE/DATA	NA
MEDIA	NA
ACOUSTICS	



Room Data Sheets BARN DINING: PRODUCTION KITCHEN DRY STORAGE - LIQUOR

GENERAL INFORMATION

Lockable dry storage for liquor located in the Double-Sided Service Bar.

TOTALASF	30
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Double-sided Service Bar
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Vinyl faced lay-in
WALLS / BASE	White FRP
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Ventilation
PLUMBING	NA
SECURITY	Key access for storage
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	Storage cabinets (secure)
FIXED	NA
MOVABLE	NA
OTHER	NA

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-55

ACOUSTICS

SEE DOUBLE-SIDED SERVICE BAR ROOM DATA SHEET FOR DIAGRAM

CATER. STO.

PROGRAM

Room Data Sheets BARN DINING: PRODUCTION KITCHEN DRY STORAGE - CATERING EQUIPMENT

GENERAL INFORMATION

Storage for catering equipment.

80
NA
Receiving
NA
9'-0"
Per code
1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Vinyl faced lay-in
WALLS / BASE	White FRP
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

FURNITURE + EQUIPMENT

BUILT-IN	POS
FIXED	NA
MOVABLE	Wire-rack shelving
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase, Quad receptacle at POS
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	HVAC; 0.15 cfm/sf ventilation, humidity sensor.
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data at POS
MEDIA	NA

ACOUSTICS

Room Data Sheets BARN DINING: PRODUCTION KITCHEN SODA ROOM / ICE MACHINE

GENERAL INFORMATION

Area for soda equipment and ice machine.

TOTAL ASF	82
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Vinyl faced lay-in
WALLS / BASE	White FRP
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Soda carbonator
MOVABLE	Soda shelving, water filter, CO2
	regulators, ice machine, and ice bin
	with mobile ice carts
OTHER	NA

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BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA	
ELECTRICAL	120/208 V / 3 Phase	
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.	
	Controlled with Occupancy Sensor/Switch.	
MECHANICAL	HVAC; 0.15 cfm/sf ventilation, humidity sensor.	
PLUMBING	Cold water, floor trough drain	
SECURITY	Key access for Soda room	
FIRE PROTECTION	Sprinkler	
VOICE/DATA	NA	
MEDIA	NA	
ACOUSTICS		
ACOUSTICAL MEASURES NA		
BACKGROUND NOISE CRITERIA NC-55		





Room Data Sheets BARN DINING: PRODUCTION KITCHEN RECEIVING, RECYCLING, AND OUTBOUND STAGING AREA

GENERAL INFORMATION

Receiving; outbound cart marshalling.

TOTAL ASF	160
NUMBER OF OCCUPANTS	1
ADJACENCIES	Loading Dock
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Vinyl faced lay-in
WALLS / BASE	White FRP
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	Hollow metal painted door, Vision
	panels
DOOR FRAMES	Hollow metal painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Recessed downlights rated for outdoor use or ceiling mounted linear
	fluorescents, 20-30 FC. Controlled via switch and Occupancy Sensor.
MECHANICAL	HVAC, Exhaust, Air curtains with door actuation switches at exterior doors
PLUMBING	NA
SECURITY	Card key access, Magnetic contacts at exterior doors, Camera at exterior doors
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA
VOICE/DATA MEDIA	NA NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	Food waste and compostable bins (exterior)
OTHER	NA

ACOUSTICS

Room Data Sheets BARN DINING: WAREWASHING DISHWASHING AND POT-WASHING COMBINED

GENERAL INFORMATION

Space includes chemical storage.

TOTAL ASF	127
NUMBER OF OCCUPANTS	2
ADJACENCIES	Cold Prep
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

FURNITURE + EQUIPMENT

CEILING	Vinyl faced lay-in
WALLS / BASE	White FRP, stainless steel flashing
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

DOILDING OTOTEM III		
DAYLIGHTING	North facing clerestory windows	
ELECTRICAL	120/208 V / 3 Phase	
LIGHTING	48" recessed fluorescent fixtures with plastic lens covers, occupancy sensors	
MECHANICAL	HVAC. Provide exhaust air at a rate of at least 0.7 cfm/sf with stainless steel	
	duct, sloped down towards appliance. Make-up air from adjoining spaces.	
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required, Eye	
	wash station	
SECURITY	Key access for chemical storage	
FIRE PROTECTION	Sprinkler	
VOICE/DATA	NA	
MEDIA	NA	
ACOUSTICS		
ACOUSTICAL MEASURE	S NA	
BACKGROUND NOISE CRITERIA NC-50		

BUILT-IN NA FIXED Conveyor dishmachine, scrap collector, utensil sinks, hand sink, wall shelves, eye wash station MOVABLE Tray dollies, trash containers OTHER NA

MAY 28, 2010



Room Data Sheets BARN DINING: WAREWASHING JANITOR'S CLOSET

GENERAL INFORMATION

Sotrage of cleaning and janitorial supplies.

32
NA
Cold Prep
NA
9'-0"
Per code
1/8" = 1'-0"

Vinyl faced lay-in

Quarry tile or resin

Hollow metal painted door

MATERIALS AND FINISHES

NA

DOOR FRAMES Hollow metal painted

WALLS / BASE White FRP

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Exhaust 6 air changes per hour, meet LEED requirement for indoor chemical
	control; require full height partitions
PLUMBING	Hot / cold water, waste, eye wash station
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Mop sink, mop rack, cleaning equipment
	storage also includes chemical storage,
	eye wash station
MOVABLE	NA
OTHER	NA

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Room Data Sheets BARN DINING: BACK OF HOUSE SUPPORT CHANGING ROOM & LOCKERS (UNISEX)

GENERAL INFORMATION

TOTALASF	56
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Receiving
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Paint or lay-in
WALLS / BASE	Paint
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	Hollow metal painted door
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILT-IN	24 one-third lockers
FIXED	NA
MOVABLE	Changing bench
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

NA
120 V / 1 Phase
Surface mounted linear fluorescent with acrylic lens. Controlled via Occupancy
Sensor/Switch.
HVAC, exhaust at minimum 0.5 CFM/sf per code
NA
Card key access, padlock type lockers
Sprinkler
1 phone / 1 data
NA

ACOUSTICS



Room Data Sheets BARN DINING: BACK OF HOUSE SUPPORT **PRODUCTION OFFICE & MANAGER'S OFFICE**

GENERAL INFORMATION

Production Office: 2 work stations shared by: 1 Senior Mgr., 1 Entertainment Mgr., 1 Principal Supervisor (Barn), 1 Principal Cook (Barn), and 1 Principal Supervisor (Truck). Manager's Office: 2 work stations

TOTALASF	80 each
NUMBER OF OCCUPANTS	See above
ADJACENCIES	Copy Office
VIEWS	NA
MINIMUM CEILING HEIGHT	8' - 0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Paint or lay-in	LIGHTING	Direct/Indirect linear per
WALLS / BASE	Paint		via Occupancy Sensor/S
FLOORS	Quarry tile or resin	MECHANICAL	HVAC; group offices on
WINDOWS	Aluminum or skylight		from Kitchen prep area.
DOORS	Hollow metal painted door	PLUMBING	NA
	Vision panel	SECURITY	Key access, Window sa
DOOR FRAMES	Hollow metal painted		windows
	·	FIRE PROTECTION	Sprinkler

FURNITURE + EQUIPMENT

BUILT-IN	Safe (at Production Office only),	ACOUSTICS	
	2 POS, desk and upper shelving	ACOUSTICAL MEASURES	Sou
FIXED	Desks, storage cabinet	BACKGBOUND NOISE CRITERIA	NC-
MOVABLE	NA		
OTHER	NA		



BUILDING SYSTEM RI	EQUIREMENTS
DAYLIGHTING	Windows where possible
ELECTRICAL	120 V / 1 Phase, Quad receptacle at each POS
LIGHTING	Direct/Indirect linear pendants, 10-20 FC. Task lights 30-40 FC. Controlled
	via Occupancy Sensor/Switch.
MECHANICAL	HVAC; group offices on a common zone for temperature control independent
	from Kitchen prep area.
PLUMBING	NA
SECURITY	Key access, Window sash locks, Magnetic contacts at safe and exterior
	windows
FIRE PROTECTION	Sprinkler
VOICE/DATA	2 phone / 4 data, at least one on each wall
MEDIA	Intercom station at Production Office

und absorbing ceiling treatment -35

Room Data Sheets BARN DINING: SERVING SERVING AREA

GENERAL INFORMATION

Exhibition kitchen and servery, 4 exhibition production platforms (salad / cold sandwich, hot sandwich / specialty, grill, pizza / woodstone oven).

TOTAL ASF	800
NUMBER OF OCCUPANTS	5
ADJACENCIES	Dining, Kitchen
VIEWS	NA
MINIMUM CEILING HEIGHT	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Drop; washable
WALLS / BASE	Washable
FLOORS	Quarry tile or resin
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

FURNITURE + EQUIPMENT

BUILT-INServing counter with breath guard, heat lamps, lightsFIXEDCounters, pizza oven, refrigerator, large ceiling fans,
hand sink, pizza prep refrigerator, heated shelf,
refrigerated open display case, salad mixing station
with cold rail, sink, bread drawers, undercounter
heated cabinet, hot/cold well (2), hot well (3), carving
station with lamp, plate shelves, undercounter
refrigeratorMOVABLERacks, pizza dough rack, trash cans

OTHER Orange juice machine, glove box holders



BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Roof monitors at Dining
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Ceiling mount linear fluorescent with acrylic lens, 40-50 FC. Controlled via
	Occupancy Sensor/Switch
MECHANICAL	HVAC, Exhaust air at kitchen hoods with interlocked tempered make-up air;
	Air curtains with door actuation switches at exterior doors.
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	NA
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	NA
MEDIA	Servery/Dining/Courtyard audio source equipment or control

ACOUSTICS

ACOUSTICAL MEASURES Sound absorbing ceiling treatment BACKGROUND NOISE CRITERIA NC-45

FERNAU & HARTMAN ARCHITECTS



MATERIALS AND FINISHES

CEILING	Open to trusses above
WALLS / BASE	Wood
FLOORS	Colored concrete
WINDOWS	Wood painted
DOORS	FSC certified solid-core wood door
	painted
DOOR FRAMES	Wood painted

FURNITURE + EQUIPMENT

BUILT-IN	POS (4)
FIXED	Large ceiling fans
MOVABLE	NA
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Roof monitors at Dining
ELECTRICAL	120 V / 1 Phase, Quad receptacle at each POS
LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central time clock
	system with override switches.
MECHANICAL	HVAC; air curtains with door actuation switches at exterior doors
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	Key access, Window sash locks, Magnetic contacts at exterior doors and windows, Camera
	at each POS
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	1 phone / 1 data at each POS, WAP
MEDIA	Speakers, Ceiling loudspeakers
ACQUETICE	
ACCUSIICS	

ACOUSTICAL MEASURES

Sound absorbing ceiling treatment; remote refrigeration (i.e. no display cases with built-in condensers)

BACKGROUND NOISE CRITERIA NC-40

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Room Data Sheets BARN DINING: SERVING SELF-SERVE BEVERAGE COUNTER & QUEUING

GENERAL INFORMATION

SEE *CUSTOMER QUEUING* ROOM DATA SHEET FOR DIAGRAM OF SPACE

TOTAL ASF	65
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Part of Customer Queuing at Servery, adjacent to
	Double-Sided Service Bar
VIEWS	NA
MINIMUM CEILING HEIGHT	Open to existing structure
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

NA

NA

NA

ceiling fans

FURNITURE + EQUIPMENT

WALLS / BASE Washable

DOOR FRAMES NA

Open to trusses above

Counter, beverage equipment, large

Soda/ice dispenser, double coffee

Beverage conduit to Soda Room

grab-and-go display case

machine, iced tea brewer, refrigerated

Colored concrete

CEILING

FLOORS

DOORS

BUILT-IN

MOVABLE

OTHER

FIXED

WINDOWS

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Roof monitors at Dining
ELECTRICAL	120/208 V / 3 Phase
LIGHTING Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via	
	time clock system with override switches.
MECHANICAL	HVAC; air curtains with door actuation switches at exterior doors
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	NA
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	WAP
MEDIA	Ceiling loudspeakers

ACOUSTICS

ACOUSTICAL	MEASURES
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Sound absorbing ceiling treatment; remote refrigeration (i.e. no display cases with built-in condensers)

BACKGROUND NOISE CRITERIA NC-40
Room Data Sheets BARN DINING: SERVING DOUBLE-SIDED SERVICE BAR

GENERAL INFORMATION

Opening to interior and exterior; Service bars on each side (beer taps and bottled wine); (1) bar sink and (1) under counter glass washer; staffed by one bartender.

TOTAL ASF	136
NUMBER OF OCCUPANTS	1-2
ADJACENCIES	Servery, West Courtyard, Dining
	includes Dry Storage - Liquor
VIEWS	NA
MIN. CEILING HT.	9'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Vinyl faced lay-in (or themed)

Hollow metal painted door

Quarry tile, poured resin, or themed



BUILDING SYSTEM REQUIREMENTS		
DAYLIGHTING	Windows, exterior sun shading where applicable	
ELECTRICAL	120 V / 1 Phase, Quad receptacle at each POS	
LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central	
	time clock system with override switches.	
MECHANICAL	HVAC; air curtains with door actuation switches at exterior windows	
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.	
SECURITY	Window sash locks, Magnetic contacts at exterior windows, Camera at each POS	
FIRE PROTECTION	Sprinkler	
VOICE/DATA	1 phone / 1 data at each POS	
MEDIA	Ceiling loudspeakers	

FURNITURE + EQUIPMENT

MATERIALS AND FINISHES

WALLS / BASE White FRP (or themed)

DOOR FRAMES Hollow metal painted

Aluminum

CEILING

FLOORS

DOORS

WINDOWS

BUILT-IN	POS (2)	
FIXED	Hand sink, (2) 4-tap beer towers, lockable	
	wine / liquor storage, back bar refrigerator,	
	(2) ice bin / soda towers, cup dispensers	
MOVABLE	Trash containers	
OTHER	NA	

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-40

Room Data Sheets BARN DINING: SERVING SELF-SERVE CONDIMENT COUNTER & QUEUING

GENERAL INFORMATION

TOTALASF	65
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Part of Customer Queuing at Servery
VIEWS	NA
MINIMUM CEILING HEIGHT	Open to existing structure
ACCESSIBILITY	Per code

SEE *CUSTOMER QUEUING* ROOM DATA SHEET FOR DIAGRAM OF SPACE

MATERIALS AND FINISHES

NA

NA

WALLS / BASE Themed

DOOR FRAMES NA

CEILING

FLOORS

DOORS

WINDOWS

DAYLIGHTING	Roof monitors at Dining
ELECTRICAL	120 V / 1 Phase
LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central
	time clock system with override switches.
MECHANICAL	HVAC
PLUMBING	NA
SECURITY	Key access, Window sash locks, Magnetic contacts at exterior doors and windows
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	WAP
MEDIA	Ceiling loudspeakers

FURNITURE + EQUIPMENT

NIA

DUILI-IIN	NA
FIXED	Counter, basket/tray return station,
	large ceiling fans
MOVABLE	Trash and recycling containers, oven,
	condiment pan, napkin dispensers
OTHER	Storage

Open to trusses above

Colored concrete

ACOUSTICS

Sound absorbing ceiling treatment; remote refrigeration (i.e. no display cases with built-in condensers)

BACKGROUND NOISE CRITERIA NC-40

Room Data Sheets BARN DINING: INDOOR SEATING + STAGE INDOOR SEATING

GENERAL INFORMATION

Main interior dining area with 94 cafe style seats

DIAGRAM OF SPACE FOUND ON FOLLOWING PAGE

TOTAL ASF		1,870		
NUMBER OF OC	CUPANTS	94		
ADJACENCIES		Indoor Stage, Servery,		
		West and East Courtyards	BUILDING SYSTEM I	REQUIREMENTS
VIEWS		West and East Courtyards	DAYLIGHTING	Roof monitors
MINIMUM CEILI	NG HEIGHT	Open to existing structure	ELECTRICAL	120/208 V / 3 Phase
ACCESSIBILITY Per code		LIGHTING	50 - 60 FC, Photocell sensors to be used in rroms with abundant daylight. These	
				are not mandated by T-24 but add to energy efficiency.
			MECHANICAL	HVAC. Natural ventilation could cause mustic-to-exterior noise issues if area can
			separate from Food Service. Otherwise, mechanical ventilation. All 3 MEP	
MATERIALS A	ND FINISHES			options (see MEP programming narrative) apply here, but would prefer Option 2
CEILING	Open to trusses a	above		for energy efficiency and overall sustainability. Air curtains with door actuation
WALLS / BASE	Wood			switches at exterior doors.
FLOORS	Colored concrete	3	PLUMBING	NA
WINDOWS	Wood painted		SECURITY	Key access, Window sash locks, Magnetic contacts at exterior doors and
DOORS	FSC certilied soli	la-core wood door		windows, Camera at location TBD
	Wood pointed		FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
DOON FNAMES	wood painted		VOICE/DATA	NA
			MEDIA	Indoor Stage performance audio system similar to existing, reuse existing where
				feasible; manual pull-down projection screen at downstage edge; Audio
				presentation capability (e.g. one to four mics, audio for video) without deployment
FURNITURE + EQUIPMENT			of large mixer or operator; Installed video projector; Background music for	
BUILT-IN	Indoor Stage			non-performance times
FIXED	Audio speakers,	television screens,	ACOUSTICS	
	oversized ceiling	fans, trash, recycling and	ACOUSTICAL MEASUR	ES Sound absorbing ceiling treatment
	dish bussing stat	ion	BACKGROUND NOISE	CRITERIA NC-35
MOVABLE	94 seats (cafe sty	yle)		

OTHER

NA



Room Data Sheets BARN DINING: INDOOR SEATING + STAGE **INDOOR STAGE**

GENERAL INFORMATION

Stage open to interior Barn Seating Area for live performances. Includes a non-permanent location for sound mixing and lighting control. Sitelines will require further review during design.

TOTAL ASF	280
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Barn Dining, Green Room
VIEWS	NA
MINIMUM CEILING HEIGHT	7'-6"
ACCESSIBILITY	Per code, 1:12
SCALE	1/8" = 1'-0"
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

Open to trusses above
Wood
Wood
NA
NA
NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Roof monitors at dining
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Specialty
MECHANICAL	HVAC
PLUMBING	NA
SECURITY	Camera at location TBD
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	1 phone / 4 data, at least one on each wall
MEDIA	A/V feed to KUCR, roll down projection screen, ceiling mounted projector and
	speakers, performance audio system (possible reuse of existing), intercom
	station

FURNITURE + EQUIPMENT

BUILT-IN	Indoor Stage raise 1'6" AFF, Stairs, Ramp
FIXED	Adjustable lighting, speakers
MOVABLE	NA
OTHER	NA

ACOUSTICS

Sound absorbing ceiling treatment ACOUSTICAL MEASURES BACKGROUND NOISE CRITERIA NC-35



INDOOR STAGE

Room Data Sheets

BARN DINING: INDOOR SEATING + STAGE **GREEN ROOM**

GENERAL INFORMATION

Space for performers before and after a show.

TOTAL ASF	150
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Indoor Stage, Exterior access
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

GRN RM LOCKERS

MATERIALS AND FINISHES

CEILING	Open to trusses above
WALLS / BASE	Wood
FLOORS	Carpet
WINDOWS	NA
DOORS	FSC certified solid-core wood door, painted
DOOR FRAMES	Wood painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Direct/indirect pendants, specialty lighting – lights around mirrors, 30-50 FC.
	Occupancy Sensor/Switch.
MECHANICAL	HVAC, Individual zone control/thermostat.
PLUMBING	NA
SECURITY	Card key access, Magnetic contacts at exterior door, Camera at exterior door
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 4 data, at least one on each wall
MEDIA	Intercom station

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Lockers, lockable safe
MOVABLE	Small desk with mirror, chairs and/o
	couch, coat rack
OTHER	NA

ACOUSTICAL MEASURES	Carpet or sound absorbing ceiling treatment
BACKGROUND NOISE CRITERIA	NC-35

Room Data Sheets

BARN DINING: BACK OF HOUSE SUPPORT **TICKET BOOTH**

GENERAL INFORMATION

Area for ticket sales and distributing performance information

TOTAL ASF	100
NUMBER OF OCCUPANTS	2
ADJACENCIES	Barn interior, West and
	East Courtyards
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

WALLS / BASE Wood

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTEM REQUIREMENTS

Open to trusses above	DAYLIGHTING	Controlled Daylight
Wood	ELECTRICAL	120 V / 1 Phase, Quad receptacle at each POS
Wood	LIGHTING	Direct/indirect pendants with downlight above counter, 35-50 FC. Occupancy Sensor/
Wood painted		Switch.
FSC certified solid-core wood door	MECHANICAL	HVAC. Individual temperature control.
painted	PLUMBING	NA
Wood painted	SECURITY	Window sash locks, Magnetic contacts at exterior windows, Camera at each POS
	FIRE PROTECTION	Sprinkler
	VOICE/DATA	2 phone / 4 data, at least one on each wall
	MEDIA	Intercom station

FURNITURE + EQUIPMENT

DOOR FRAMES Wood painted

BUILT-IN	Sales desk, ticket windows (2)	ACOUSTICAL MEASURES	Carpet or sound absorbing ceiling treatment
FIXED	Safe, POS (2), Ticketmaster	BACKGROUND NOISE CRITERIA	NC-35
	terminals (2)		
MOVABLE	File cabinets		
OTHER	NA		



Room Data Sheets BARN DINING: NON-ASSIGNABLE SPACES STAGE POWER & DIMMERS

GENERAL INFORMATION

TOTAL SF	50
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Restrooms
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Metal decking
WALLS / BASE	Gypsum board
FLOORS	Colored concrete
WINDOWS	NA
DOORS	Hollow metal painted door
DOOR FRAMES	Hollow metal painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Surface mounted fluorescents with acrylic lens. 30-40 FC. Occupancy
	Sensor/Switch.
MECHANICAL	Exhaust air and ventilation
PLUMBING	NA
SECURITY	Card key access, Magnetic contacts at exterior doors
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data
MEDIA	Dimmers and amp racks for Outdoor Stage

FURNITURE	+ EQUIPMENT
	ΝΔ

DOILI-IN	
FIXED	One dimmer (96 circuits) and multiple
	amp racks
MOVABLE	NA
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA



Room Data Sheets

BARN DINING: NON-ASSIGNABLE SPACES **MECHANICAL**

GENERAL INFORMATION

Main mechanical room for the entire complex.

TOTAL NON-ASF	200
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Exterior
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Metal decking
WALLS / BASE	Plywood
FLOORS	Colored concrete
WINDOWS	NA
DOORS	Hollow metal painted
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA



BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120/208 V, 3 Phase
IGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Heat exchange equipment, pumps, expansion tanks, metering for Barn Dining
PLUMBING	Drains, gas, water
SECURITY	Key access, Magnetic contacts at exterior doors
FIRE PROTECTION	Sprinkler
/OICE/DATA	1 phone / 1 data, at least one on each wall
MEDIA	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA

Room Data Sheets

BARN DINING: NON-ASSIGNABLE SPACES **TELECOM CLOSET**

GENERAL INFORMATION

TOTAL NON-ASF	120
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Mechanical Room,
	Transformer
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING Metal decking WALLS / BASE Plywood FLOORS Colored concrete

WINDOWSNADOORSHollow metal paintedDOOR FRAMESHollow metal painted

FURNITURE + EQUIPMENT

NA
NA
NA
NA



BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Exhaust
PLUMBING	NA
SECURITY	Key access, Magnetic contacts at exterior doors
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data
MEDIA	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA



Room Data Sheets BARN DINING: NON-ASSIGNABLE SPACES PUBLIC RESTROOMS (4)

GENERAL INFORMATION

Restroom for public as well as Barn Dining employees (dogtrot restroom).

TOTAL NON-ASF	665
NUMBER OF OCCUPANTS	NA
ADJACENCIES	West Courtyard, Kitchen Addition
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

DOOR FRAMES Hollow metal painted

WALLS / BASE Tile

Metal decking

Colored concrete

Aluminum skylights

Hollow metal painted door

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Skylights or Roof monitors, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Surface mounted fluorescents above mirrors, downlights in the aisle ways with
	acrylic lens. 30-40 FC. Occupancy Sensor/Switch.
MECHANICAL	Exhaust air and ventilation, heating, fan
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	Key access, Magnetic contacts at exterior doors
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

 BUILT-IN
 Restroom fixtures and accessories. Totals:

 Men's: 3 WC, 2 urinals, 3 lavs

 Women's: 4 WC, 3 lavs

 FIXED

 NA

 MOVABLE

 OTHER

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-45



Room Data Sheets BARN DINING: PROGRAMMABLE OUTDOOR SPACE EAST COURTYARD

GENERAL INFORMATION

Dining, circulation, and gathering space east of Barn Dining and north of the Cottage. 122 seats; cafe-style seating, Bussing Stations.

TOTAL SF	3,630
NUMBER OF OCCUPANTS	TBD
ADJACENCIES	Barn Dining, Cottage, Barn Walk, Barn
	Annex
VIEWS	NA
MINIMUM CEILING HEIGHT	NA
ACCESSIBILITY	Per code
SCALE	1" = 30'-0"

MATERIALS AND FINISHES

CEILING	NA
WALLS / BASE	NA
FLOORS	NA
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	
ELECTRICAL	Outdoor electrical outlets for special events
LIGHTING	Outdoor lighting
MECHANICAL	Heaters, misters
PLUMBING	Potable water supply for misters
SECURITY	Key access at gates, Cameras at location TBD
FIRE PROTECTION	Sprinklers at covered areas
VOICE/DATA	WAP
MEDIA	Outdoor loudspeakers

FURNITURE + EQUIPMENT

BUILT-IN	Shade structures / trellis, fences and gates
FIXED	Trash, recycling and dish bussing station
MOVABLE	Tables and chairs
OTHER	Landscape planters, seat walls

ACOUSTICAL MEASURES

ACOUSTICS

NA BACKGROUND NOISE CRITERIA NA



7,000 SF [+ 100 SF (Outdoor BBQ)

+ 48 SF (Outdoor Condiment Counter

& Queuing); see separate Room Data

Outdoor Stage, KUCR, The Barn, Barn

Room Data Sheets BARN DINING: PROGRAMMABLE OUTDOOR SPACE WEST COURTYARD

GENERAL INFORMATION

Dining, circulation, and gathering space west of Barn Dining. 116 seats; cafe-style seating, Shade Structure, Outdoor Stage, BBQ, Condiment Counter & Queuing (see separate room data sheets), Bussing Stations, A/V and Lighting Booth (location to be studied during design)

Sheets]

Theater

Per code

1" = 30'-0"

TBD

NA

NA

TOTAL SF

NUMBER OF OCCUPANTS ADJACENCIES VIEWS MINIMUM CEILING HEIGHT ACCESSIBILITY SCALE

MATERIALS AND FINISHES

CEILING	NA
WALLS / BASE	NA
FLOORS	NA
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

0 = . = 0.	
WALLS / BASE	NA
FLOORS	NA
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

FURNITURE + EQUIPMENT

BUILT-IN	18' high 3,000 SF (included in Total SF) Shade	ACOUSTICAL MEASURES	NA
	Structure	BACKGROUND NOISE CRITERIA	NA
FIXED	Trash, recycling and dish bussing station		
MOVABLE	NA		
OTHER	Landscape Planters, Seat Walls, Ramps, Steps at		
	Performance Pit		



BUILDING	SYSTEM	REQUIREME	NTS
		NIA	

DAYLIGHTING	NA
ELECTRICAL	Outdoor electrical outlets for special events
LIGHTING	Outdoor lighting
MECHANICAL	Heaters, misters
PLUMBING	Water supply for misters
SECURITY	Key access at gates, Cameras at locations TBD
FIRE PROTECTION	Sprinklers at covered areas
VOICE/DATA	WAP
MEDIA	See Outdoor Stage room data sheet for additional requirements

Room Data Sheets

BARN DINING: PROGRAMMABLE OUTDOOR SPACE **OUTDOOR BBQ**

Outdoor area for the preparation and sales of BBQ and other food items.

100

NA

NA

NA

Per code

1/8" = 1'-0"

U/C STOR.--U/C BREAD RACKS SNEEZE GUARD-GRILL -POS BBQ -SINK REFRIGERATOR-West Courtyard, service entrance to Kitchen Addition 0 -OUTDOOR CONDIMENT COUNTER & QUEUING (SEE SEPARATE ROOM DATA SHEET) U/C BREAD RACKS -U/C STOR.

MATERIALS AND FINISHES

GENERAL INFORMATION

NUMBER OF OCCUPANTS

MINIMUM CEILING HEIGHT

TOTAL SF

VIEWS

SCALE

ADJACENCIES

ACCESSIBILITY

CEILING	NA
WALLS / BASE	NA
FLOORS	Colored concrete
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120/208 V / 3 Phase, Quad receptacle at POS, outlet at front counter
LIGHTING	Outdoor
MECHANICAL	Exhaust
PLUMBING	Hot / cold water, gas, waste
SECURITY	Key access for equipment and POS, Camera at POS
FIRE PROTECTION	Cooking fire protection system
VOICE/DATA	1 phone / 1 data at POS
MEDIA	NA

FURNITURE + EQUIPMENT

NA

BUILT-IN	NA
FIXED	Counter, BBQ, hand sink, POS (1), hood and
	flue, undercounter refrigerator, undercounter
	shelving / bread racks
MOVABLE	NA

OTHER

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA

Room Data Sheets BARN DINING: PROGRAMMABLE OUTDOOR SPACE OUTDOOR CONDIMENT COUNTER & QUEUING

GENERAL INFORMATION

TOTAL SF	48
NUMBER OF OCCUPANTS	NA
ADJACENCIES	West Courtyard
VIEWS	NA
MINIMUM CEILING HEIGHT	NA
ACCESSIBILITY	Per code

MATERIALS AND FINISHES

CEILING	NA
WALLS / BASE	NA
FLOORS	Colored concrete
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

FURNITURE + EQUIPMENT

NA

Storage

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Roof monitors at Dining
ELECTRICAL	120 V / 1 Phase
LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central
	time clock system with override switches.
MECHANICAL	HVAC
PLUMBING	NA
SECURITY	Key access, Window sash locks, Magnetic contacts at exterior doors and
	windows
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	WAP
MEDIA	Ceiling loudspeakers
ACOUSTICS	
ACOUSTICAL MEASUF	RES NA
BACKGROUND NOISE	CRITERIA NA

FIXED	Counter, basket/tray return station,
	large ceiling fans
MOVABLE	Trash and recycling containers, oven,
	condiment pan, napkin dispensers

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OTHER

BUILT-IN

DIAGRAM OF SPACE CONTAINED IN DRAWING ON WEST COURTYARD ROOM DATA SHEET

FERNAU & HARTMAN ARCHITECTS

PROGRAM

Room Data Sheets BARN DINING: NON-PROGRAMMABLE OUTDOOR SPACE COVERED LOADING DOCK AREA & LOADING DOCK

GENERAL INFORMATION

TOTAL SF	4,000
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Production Kitchen / Storage
VIEWS	NA
MINIMUM CEILING HEIGHT	NA
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	NA
WALLS / BASE	NA
FLOORS	Concrete slab at covered area, asphalt
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Area light
MECHANICAL	NA
PLUMBING	Hot/cold water, grease waste
SECURITY	Locking gates
FIRE PROTECTION	NA
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	3 bays: 2 vehicle, 1 trash/recycling (compactor,		
	trash dumpster, recycling cotainers for oil waste,		
	paper, compostables); mat/cart washing area		
FIXED	NA		
MOVABLE	NA		
OTHER	NA		



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ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA

Room Data Sheets

BARN STABLE MEETING ROOM

GENERAL INFORMATION

50 seats; flexible multipurpose room for weddings, parties, meetings, and lectures.

TOTALASF	868
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Barn Stable Patio, Lobby, Bar, Kitchen
VIEWS	Barn Stable Patio
MINIMUM CEILING HEIGHT	10'-0"
ACCESSIBILITY	Per code
SCALE	1/16" = 1'-0"



MATERIALS AND FINISHES

BUILDING SYSTEM REQUIREMENTS

CEILING	Exposed existing wood structure and	DAYLIGHTING	Windows, exterior sun shading where applicable
	reinforced original metal roofing	ELECTRICAL	120 V / 1 Phase
WALLS / BASE	Wood slats over acoustical cloth	LIGHTING	Direct/indirect pendants. Downlights above any presentation wall. 40-50 FC.
FLOORS	Wood		Occupancy Sensor/Switch.
WINDOWS	Wood; operable	MECHANICAL	HVAC. Individual zone control/thermostat. Ventilation at 15 CFM / person; room
DOORS	FSC certified solid-core wood door		to be on own zone control; CO2 sensors for demand control ventilation; Air
	painted with vision glazing		curtains with door actuation switches at exterior doors
DOOR FRAMES	Wood painted	PLUMBING	NA
		SECURITY	Card key access, Window sash locks, Magnetic contacts at exterior doors and windows
		FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
		VOICE/DATA	1 phone / 4 data, at least one on each wall, WAP
FURNITURE +	EQUIPMENT	MEDIA	Ceiling loudspeakers; roll-down projection screen; ceiling-mounted video
BUILT-IN	NA		projector
FIXED	Sunshade, projection screen in ceiling	ACOUSTICS	

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Sound absorbing ceiling treatment, acoustcial wall treatment ACOUSTICAL MEASURES BACKGROUND NOISE CRITERIA NC-25

MOVABLE

OTHER

Tables and chairs

Sliding barn door

Room Data Sheets

BARN STABLE BAR

GENERAL INFORMATION

Full service bar with ability to secure, with locakable shutters.

TOTALASF	100
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Meeting, Lobby, Kitchen
VIEWS	Meeting
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

BAR

MATERIALS AND FINISHES

CEILING	Exposed existing wood structure and	DAYLIGHTING	Windows, exterior sun shading where applicable
	reinforced original metal roofing; pos-	ELECTRICAL	120 V / 1 Phase, Quad receptacle at POS
	sible wood slats overhead	LIGHTING	Downlights, Ceiling mount linear fluorescents, 30-40 FC. Controlled via central
WALLS / BASE	FRP		time clock system with override switches.
FLOORS	Colored concrete	MECHANICAL	HVAC
WINDOWS	NA	PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
DOORS	FSC certified solid-core wood door	SECURITY	Key access shutters, Magnetic contacts at shutters and door to kitchen, Camera
	painted		at POS
DOOR FRAMES	Wood painted	FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
		VOICE/DATA	1 phone / 1 data at POS, not at each wall
	FOUIPMENT	MEDIA	Audio source (music) for Meeting Room loudspeakers

BUILDING SYSTEM REQUIREMENTS

URNITURE + EQUIPMENT

BUILT-IN	Bar top and die with beer taps, POS (1),			
	undercounter ice maker; back bar to include		Sound absorbing calling treatments remate refrigeration (i.e. no diaplay	
	undercounter refrigeration, undercounter	ACOUSTICAL MEASURES	Sound absorbing ceiling treatment, remote reingeration (i.e. no display	
	dishwasher and bar sink, wire rack for liquor		cases with built-in condensers)	
	storage (secure)	BACKGROUND NOISE CRITERIA	NC-35	
FIXED	NA			
MOVABLE	Wood shutters for locking bar when not in use			
OTHER	NA			

Room Data Sheets

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BARN STABLE

GENERAL INFORMATION

TOTAL ASF NUMBER OF OCCUPANTS ADJACENCIES VIEWS MINIMUM CEILING HEIGHT ACCESSIBILITY SCALE

Meeting, Bar, Restrooms Barn Stable Patio 10'-0" Per code 1/8" = 1'-0"



MATERIALS AND FINISHES

CEILING	Acoustical wood slats
WALLS / BASE	Wood / gypsum board
FLOORS	Wood
WINDOWS	Aluminum
DOORS	Aluminum door with vision glazing at
	exterior, wood at interior
DOOR FRAMES	Aluminum, Wood painted at interior

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Downlights, ceiling mount linear fluorescents, architectural sconces, 20-30 FC.
	Controlled via a central time clock system and provided with an override switch.
MECHANICAL	HVAC. Individual zone control/thermostat
PLUMBING	NA
SECURITY	Card key access, Window sash locks, Magnetic contacts at exterior doors and
	windows, Cameras at doors
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe
VOICE/DATA	1 phone / 1 data, at least one on each wall, WAP
MEDIA	Speakers

FURNITURE + EQUIPMENT

BUILT-IN	Bench, coat check, reception
FIXED	NA
MOVABLE	Soft chairs
OTHER	NA

ACOUSTICAL MEASURES	Sound absorbing ceiling treatment
BACKGROUND NOISE CRITERIA	NC-35

Room Data Sheets

BARN STABLE **KITCHEN**

GENERAL INFORMATION

Finishing kitchen only, supported by Barn Dining Kitchen. Allows for catering events, including those held at Barn Stable.

TOTAL ASF	254
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Bar, Meeting
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

Vinyl-faced lay-in panels	D/	AY
FRP	EL	_E
Quarry tile or resin	LI	Gŀ
Wood painted		
Wood painted	M	EC
Wood painted		
	Vinyl-faced lay-in panels FRP Quarry tile or resin Wood painted Wood painted Wood painted	Vinyl-faced lay-in panelsD/FRPElQuarry tile or resinLlWood paintedMWood paintedMWood paintedM

FURNITURE + EQUIPMENT

BUILT-IN	Cook line: exhaust hood, 1 two-basket
	fryer, 24" range and 24" griddle with
	oven below
FIXED	3-compartment sink, soiled pot
	shelving, clean pot shelving, 8-10'
	work counter with undercounter dishmac
	chine for glassware, 1 wire rack shelf /
	lockable liquor storage, dry storage, 1
	hand sink
MOVABLE	Plating table, 1-section roll-in refrigerator
OTHER	Cart parking area with electrical outlets



BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Ceiling mount linear fluorescent with acrylic lens, 40-50 FC. Controlled via
	Occupancy Sensor/Switch.
MECHANICAL	Exhaust air at kitchen hoods with interlocked tempered make-up air; control
	humidity with humidity sensors; air curtains with door actuation switches at
	exterior doors
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required, Gas,
	Grease waste
SECURITY	Card key access at exterior door, Window sash locks, Magnetic contacts at
	exterior door and windows, Camera at exterior door
FIRE PROTECTION	Cooking fire protection system, 120 V hard wired smoke detector, fire alarm mini-
	horn and strobe fire alarm mini-horn and strobe
VOICE/DATA	1 phone / 1 data, at least one on each wall
MEDIA	NA
ACOUSTICS	
ACOUSTICAL MEASURE	S Dedicated in and out doors (single-swing with stops) to provide

adequate door seals between Kitchen and Meeting

BACKGROUND NOISE CRITERIA NC-45

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PROGRAI

Room Data Sheets

BARN STABLE **STORAGE**

GENERAL INFORMATION

For storage of miscellaneous kitchen items and equipment.

TOTALASF	70
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Meeting, Kitchen
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	FRP
FLOORS	Colored concrete
WINDOWS	NA
DOORS	Wood painted
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILT-IN	Shelving
FIXED	NA
MOVABLE	Carts
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

NA
120 V / 1 Phase
Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens
Controlled with Occupancy Sensor/Switch.
0.15 CFM/sf ventilation
NA
NA
Sprinkler
1 phone / 1 data, at least one on each wall
NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-55



Room Data Sheets

BARN STABLE STORAGE FOR TABLES AND CHAIRS

GENERAL INFORMATION

For storage of round tables and folding chairs.

TOTALASF	250
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Meeting, Lobby
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	FRP
FLOORS	Colored concrete
WINDOWS	NA
DOORS	FSC certified solid-core wood door
	painted
DOOR FRAMES	Hollow metal painted

BUILDING SYSTEM REQUIREMENTS

NA
120 V / 1 Phase
Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
Controlled with Occupancy Sensor/Switch.
HVAC; 0.15 CFM/sf ventilation
NA
Key access
Sprinkler
1 phone / 1 data, at least one on each wall
NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	Carts for chair storage
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-55



Room Data Sheets BARN STABLE: NON-ASSIGNABLE SPACES MECHANICAL (TBD)

GENERAL INFORMATION

TOTAL NON-ASF	100
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Exterior
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Gypsum board
FLOORS	Colored concrete
WINDOWS	NA
DOORS	Hollow metal painted door
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch
MECHANICAL	HVAC; 0.15 CFM/sf ventilation
PLUMBING	TBD
SECURITY	Key access, Magnetic contacts at exterior door
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data
MEDIA	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA



Room Data Sheets BARN STABLE: NON-ASSIGNABLE SPACES TELECOM CLOSET

GENERAL INFORMATION

TOTAL NON-ASF	48
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Exterior
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Gypsum board
FLOORS	Colored concrete
WINDOWS	NA
DOORS	Hollow metal painted door
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch
MECHANICAL	HVAC; 0.15 CFM/sf ventilation
PLUMBING	NA
SECURITY	Key access, Magnetic contacts at exterior door
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data
MEDIA	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA



Room Data Sheets BARN STABLE: NON-ASSIGNABLE SPACES **PUBLIC RESTROOMS (2)**

GENERAL INFORMATION

TOTAL NON-ASF	127
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Lobby
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Gypsum board

Aluminum, Obscured

MATERIALS AND FINISHES

Tile

DOOR FRAMES Hollow metal painted

WALLS / BASE Tile

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTE	M REQUIREMENTS
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ACOUSTICS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Surface mounted fluorescents above mirrors, downlights in the aisle ways with
	acrylic lens. 30-40 FC. Occupancy Sensor/Switch.
MECHANICAL	HVAC, exhaust air
PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	Latch and closer
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	Restroom fixtures and accessories,	ACOUSTICAL MEASURES	NA
	provide shower in one restroom	BACKGROUND NOISE CRITERIA	NC-45
FIXED	NA		
MOVABLE	NA		
OTHER	NA		

FSC certified solid-core wood door painted



Room Data Sheets BARN STABLE: PROGRAMMABLE OUTDOOR SPACE PATIO

GENERAL INFORMATION

Dining, circulation, and gathering space outside Barn Stable. 44 seats; cafe-style seating, Bussing Stations.

TOTAL SF	875
NUMBER OF OCCUPANTS	TBD
ADJACENCIES	Lob
VIEWS	NA
MINIMUM CEILING HEIGHT	NA
ACCESSIBILITY	Per
SCALE	1/16

TBD Lobby, Meeting NA NA Per code 1/16" = 1'-0"

MATERIALS AND FINISHES

CEILING	NA
WALLS / BASE	NA
FLOORS	NA
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

ACOUSTICS

ACOUSTICAL MEASURES

BACKGROUND NOISE CRITERIA NA

DAYLIGHTING	NA
ELECTRICAL	Electrical outlets for special events
LIGHTING	Outdoor lighting
MECHANICAL	Heaters, misters
PLUMBING	NA
SECURITY	Fencing, gates with keyed entry
FIRE PROTECTION	NA
VOICE/DATA	WAP
MEDIA	Outdoor speakers

NA

FURNITURE + EQUIPMENT

BUILT-IN	Shade structures
FIXED	Trash, recycling and dish bussing station
MOVABLE	NA
OTHER	NA

BUSSING STATION BARN STABLE PATIO BARN STABLE PATIO

Room Data Sheets KUCR STUDIO: MASTER CONTROL

GENERAL INFORMATION

Primary on-air studio, accommodating larger interview and multi-purpose broadcast team use. Also serves as a music mixing control and broadcast space for musical performances at the Outdoor Stage and the conference/performance space.

TOTAL ASF	190
NUMBER OF OCCUPANTS	4
ADJACENCIES	Production areas, Lobby
VIEWS	Interview/Program Host, Studio A
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Acoustical tile

Carpet

Aluminum

painted, Sound rated DOOR FRAMES Hollow metal painted, Sound rated

FSC certified solid-core wood door

MATERIALS AND FINISHES

WALLS / BASE Gypsum board

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTEM	REQUIREMENTS
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DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Surface mounted track lights above the control station. Pendant mounted
	fluorescent troffers. Control via Switches and occupancy sensors.
MECHANICAL	HVAC. Separate zone control with own thermostat.
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	2 phone / 4 data, at least one on each wall
MEDIA	Radio production equipment; capable of supporting Outdoor Stage broadcast intercom station

FURNITURE + EQUIPMENT

BUILT-IN	Broadcast equipment and	ACOUSTICAL MEASURES	Carpet, sound absorbing ceiling treatment, and acoustcial wall panels
	desk		(absorbing and diffusing); sound-rated door
FIXED	Flat screen monitor	BACKGROUND NOISE CRITERIA	NC-20
MOVABLE	4 Chairs		
OTHER	NA		



Room Data Sheets

KUCR STUDIO: PRODUCTION ROOM (A + B)

GENERAL INFORMATION

Capable of operating as stand-alone on-air studios as well as pre-production editing spaces.

TOTAL ASF	110 each
NUMBER OF OCCUPANTS	3
ADJACENCIES	Master Control, Lobby, Production areas
VIEWS	Master Control
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

WALLS / BASE Gypsum board

Acoustical tile

Soundproof glass

painted, Sound rated DOOR FRAMES Hollow metal painted, Sound rated

FSC certified solid-core wood door

Carpet

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Specialty lighting, occupancy sensors.
MECHANICAL	HVAC on separate zone control.
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	2 phone / 4 data, at least one on each wall
MEDIA	Radio production equipment

FURNITURE + EQUIPMENT

BUILT-IN	Broadcast equipment and desk
FIXED	NA
MOVABLE	NA
OTHER	One or two on-air microphone locations
	for small interview, multi-person
	broadcast and voice-over functions

ACOUSTICS

ACOUSTICAL MEASURES Carpet, sound absorbing ceiling and wall treatment; sound-rated door BACKGROUND NOISE CRITERIA NC-20



Room Data Sheets KUCR STUDIO: INTERVIEW / PROGRAM HOST

GENERAL INFORMATION

Multipurpose room for meetings, on-air band performances, interviews, and audio/video.

TOTALASF	110
NUMBER OF OCCUPANTS	1-3
ADJACENCIES	Master Control, Production areas, Lobby
VIEWS	Master Control
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Soundproof glass between interviewer

FSC certified solid-core wood door

INTERV HOST

MATERIALS AND FINISHES

WALLS / BASE Gypsum board

Acoustical tile

and performer

painted, Sound rated DOOR FRAMES Hollow metal painted, Sound rated

Carpet

CEILING

FLOORS

DOORS

WINDOWS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Direct/Indirect linear pendants, 10-20 FC. Task lights 30-40 FC. Controlled via
	Occupancy Sensor/Switch.
MECHANICAL	HVAC. Separate zone control with own thermostat.
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	A/V connection to Master Control, 2 phone / 4 data, at least one on each wall
MEDIA	Microphones and fold-back only

FURNITURE + EQUIPMENT

BUILT-IN	Broadcast equipment and desk
FIXED	NA
MOVABLE	Table and chairs
OTHER	NA

ACOUSTICAL MEASURES	Carpet, sound absorbing ceiling and wall treatment; sound-rated door
BACKGROUND NOISE CRITERIA	NC-20

Room Data Sheets

KUCR EDIT / POST-PRODUCTION ROOM (2)

GENERAL INFORMATION

Small room for pre- and post-production of KUCR content.

TOTALASF	48 each
NUMBER OF OCCUPANTS	1
ADJACENCIES	Archive, Production
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Gypsum board

Colored concrete

painted, Sound rated DOOR FRAMES Hollow metal painted, Sound rated

FSC certified solid-core wood door

MATERIALS AND FINISHES

WALLS / BASE Gypsum board

NA

CEILING

FLOORS

DOORS

WINDOWS

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Direct/Indirect Pendants and recessed downlights, 40-60 FC. Controlled via
	Occupancy Sensor/Switch
MECHANICAL	HVAC; zoned separately to provide individual thermal control
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data, at least one on each wall
MEDIA	Workstation-based editing system

FURNITURE + EQUIPMENT

BUILT-IN	Desk and post production equipment
FIXED	NA
MOVABLE	Chair
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES

Carpet, sound absorbing ceiling treatment, and tackable acoustcial wall panels

BACKGROUND NOISE CRITERIA NC-30



FERNAU & HARTMAN ARCHITECTS



Room Data Sheets KUCR **OFFICE SERVICE / KITCHENETTE**

GENERAL INFORMATION

Copy room and small kitchen to support KUCR offices.

TOTALASF	75
NUMBER OF OCCUPANTS	3
ADJACENCIES	Offices
VIEWS	Exterior
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

Gypsum board WALLS / BASE Gypsum board / resilient base

Resilient floor

Aluminum

painted DOOR FRAMES Hollow metal painted

BUILDING SYSTEM REQUIREMENTS

ACOUSTICS

ACOUSTICAL MEASURES

BACKGROUND NOISE CRITERIA NC-45

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Direct/Indirect linear pendants, 10-20 FC. Task lights 30-40 FC. Controlled via
	Occupancy Sensor/Switch.
MECHANICAL	HVAC. Individual zone control for corner offices. Interior offices to be grouped,
	and zoned on a combined thermostat.
PLUMBING	Cold and hot water, Sanitary sewer for equipment as required.
SECURITY	Window sash locks, Magnetic contacts at exterior window
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector
VOICE/DATA	1 phone / 1 data, at least one on each wall
MEDIA	NA

FURNITURE + EQUIPMENT

MATERIALS AND FINISHES

CEILING

FLOORS

DOORS

WINDOWS

BUILT-IN	Base cabinets, upper cabinets for stor	
	ing office and kitchen supplies	
FIXED	counter space, sink	
MOVABLE	compact refrigerator, copy machine	
OTHER	coffee maker	

FSC certified solid-core wood door



Sound absorbing ceiling treatment

Room Data Sheets KUCR **STORAGE - REMOTE LIVE EQUPMENT**

GENERAL INFORMATION

Storage for equipment used for off-site live events.

TOTAL ASF	100
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Exterior, Parking / Loading by pick-
	up truck
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code, on grade for rolling carts
SCALE	1/8" = 1'-0"

REMOTE LIVE EQUIP \square

MATERIALS AND FINISHES

NA

Gypsum board WALLS / BASE Plywood or other durable material

Colored concrete

Hollow metal

CEILING

FLOORS

DOORS

WINDOWS

DOOR FRAMES Metal

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Ventilation
PLUMBING	NA
SECURITY	Key access, Magnetic contacts at exterior doors
FIRE PROTECTION	Sprinkler
VOICE/DATA	NA
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	Shelving, cart for moving equipment
	(provided by user)
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-55

Room Data Sheets

KUCR PRIVATE OFFICES (5)

GENERAL INFORMATION

Private offices for KUCR staff.

110 each
1
Director, Administrative Assistant, Assistant Director / Program
Director, Music Department, Engineering, Open Offices,
Production
Exterior
8'-0"
Per code

1/8" = 1'-0"

Gypsum board or drop ceiling

Carpet, resilient floor, or colored

Aluminum, Double pane, low SHGC

FSC certified solid-core wood door



MATERIALS AND FINISHES

WALLS / BASE Gypsum board

concrete

painted DOOR FRAMES Hollow metal painted

SCALE

CEILING

FLOORS

WINDOWS

DOORS

BUILDING SYSTEM REQUIREMENTS	BUIL	DING	SYSTEM	REQUIREMENTS
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DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Direct/Indirect linear pendants, 10-20 FC. Task lights 30-40 FC. Controlled via
	Occupancy Sensor/Switch.
MECHANICAL	Radiant heating and cooling, ventilation. Individual zone control for corner
	offices. Interior offices to be grouped, and zoned on a combined thermostat.
PLUMBING	NA
SECURITY	Key access, Window sash locks, Magnetic contacts at exterior window
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe in
	shared area
VOICE/DATA	1 phone / 1 data, at least one on each wall, WAP
MEDIA	Ceiling loudspeakers, indiviually controllable

FURNITURE + EQUIPMENT

BUILT-IN	Desk, computer table, shelving		
FIXED	Window blinds, Locking file cabinet,	ACOUSTICS	
	bookcase	ACOUSTICAL MEASURES	Carpet
MOVABLE	2 office chairs	BACKGROUND NOISE CRITERIA	NC-35
OTHER	NA		

Carpet or sound absorbing ceiling treatment

Room Data Sheets

KUCR OPEN OFFICES (2): SHARED WORKSPACE & NEWS / PUBLIC AFFAIRS

GENERAL INFORMATION

One open office is a shared workspace for processing and cataloging media, one open office is for News / Public Affairs.

TOTAL ASF	90 each
NUMBER OF OCCUPANTS	4 each
ADJACENCIES	Director, Assistant Director / Program Director, Archive
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES		BUILDING SYSTEM REQUIREMENTS	
CEILING	Gypsum board or drop ceiling	DAYLIGHTING	Windows, exterior sun shading where applicable
WALLS / BASE	Gypsum board	ELECTRICAL	120 V / 1 Phase
FLOORS	Carpet, resilient floor, or colored	LIGHTING	Direct/Indirect linear pendants, 10-20 FC. Task lights 30-40 FC. Controlled via
	concrete		Occupancy Sensor/Switch.
WINDOWS	Aluminum double pane, low SHGC	MECHANICAL	Radiant heating and cooling, ventilation. Individual zone control for corner
DOORS	Wood painted		offices. Interior offices to be grouped, and zoned on a combined thermostat.
DOOR FRAMES	Hollow metal painted	PLUMBING	NA
		SECURITY	Key access, Window sash locks, Magnetic contacts at exterior window
		FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe in
			shared area
		VOICE/DATA	1 phone / 1 data, at least one on each wall, WAP
FURNITURE + EQUIPMENT		MEDIA	Ceiling loudspeakers
BUILT-IN	Desk, shelving		
FIXED	Window blinds, Locking file cabinet	ACOUSTICS	

ACOUSTICS	
ACOUSTICAL MEASURES	Carpet or sound absorbing ceiling treatment
BACKGROUND NOISE CRITERIA	NC-40

MOVABLE

OTHER

4 office chairs

NA

Room Data Sheets KUCR SERVER / TRANSMISSION EQUIPMENT ROOM

GENERAL INFORMATION

Room for housing the KUCR server and transmission equipment.

TOTAL ASF	100
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Production Area, Offices
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILINGGypsum boardWALLS / BASEGypsum board, resilient baseFLOORSColored concrete or resilient floorWINDOWSNADOORSHollow metal painted doorDOOR FRAMESHollow metal painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Switch/Occupancy sensor.
MECHANICAL	Exhaust air; requires 24/7 cooling
PLUMBING	NA
SECURITY	Key access
FIRE PROTECTION	Sprinkler
VOICE/DATA	2 phone / 2 data
MEDIA	NA

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Server racks
MOVABLE	Transmission equipment
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-55


Room Data Sheets

KUCR LOBBY

GENERAL INFORMATION

Reception area (supported by the KUCR staff in the Open Offices) with seating for 6.

TOTAL ASF	275
NUMBER OF OCCUPANTS	1-6
ADJACENCIES	Studio Production, Conference, Master Control
VIEWS	NA
MINIMUM CEILING HEIGHT	14'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Wood or other high-end finish
WALLS / BASE	Wood or other high-end finish
FLOORS	Colored concrete
WINDOWS	Aluminum storefront
DOORS	Aluminum door with vision glazing at
	exterior, wood painted at interior
DOOR FRAMES	Aluminum storefront at exterior, Hollow
	metal painted at interior

FURNITURE + EQUIPMENT

BUILT-IN	Shelving, mailboxes (~100), bench
FIXED	NA
MOVABLE	Soft chairs, coffee table
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	Windows, exterior sun shading where applicable
ELECTRICAL	120 V / 1 Phase
LIGHTING	Downlights, ceiling mount linear fluorescents, architectural sconces, 20-30 FC.
	Controlled via a central time clock system and provided with an override switch.
MECHANICAL	Radiant heating and cooling, ventilation. Individual zone control/thermostat.
PLUMBING	NA
SECURITY	Card key access, Window sash locks, Magnetic contacts at exterior doors and
	windows, Camera at entrance
FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe in
	shared area
VOICE/DATA	WAP
MEDIA	Ceiling loudspeakers

ACOUSTICS

ACOUSTICAL MEASURES Sound absorbing ceiling treatment BACKGROUND NOISE CRITERIA NC-35

Room Data Sheets KUCR: NON-ASSIGNABLE SPACES MECHANICAL / ELECTRICAL

GENERAL INFORMATION

Room to house HVAC and electrical equipment.

TOTAL NON-ASF	200
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Exterior
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board	
WALLS / BASE	Plywood or other durable material	
FLOORS	Colored concrete	
WINDOWS	NA	
DOORS	Hollow metal painted door	
DOOR FRAMES	Hollow metal painted	

BUILI-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120/208 V / 3 Phase
LIGHTING	Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
	Controlled with Occupancy Sensor/Switch.
MECHANICAL	Exhaust
PLUMBING	TBD
SECURITY	Key access, Magnetic contacts at exterior doors
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data
MEDIA	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA



Room Data Sheets KUCR: NON-ASSIGNABLE SPACES TELECOM CLOSET

GENERAL INFORMATION

Room to house telecommunications equipment.

TOTAL NON-ASF	100
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Exterior
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Plywood or other durable material
FLOORS	Colored concrete
WINDOWS	NA
DOORS	Hollow metal painted
DOOR FRAMES	Hollow metal painted

FURNITURE + EQUIPMENT

BUILI-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

BUILDING SYSTEM REQUIREMENTS

NA
120 V / 1 Phase
Utilitarian surface mounted linear fluorescents, 20-30 FC with acrylic lens.
Controlled with Occupancy Sensor/Switch.
Exhaust
NA
Key access, Magnetic contacts at exterior door
Sprinkler
1 phone / 1 data
NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NA



Room Data Sheets KUCR: NON-ASSIGNABLE SPACES **PUBLIC RESTROOMS (2)**

GENERAL INFORMATION

Unisex restrooms, one to be accessible from Backstage Space.

TOTAL NON-ASF	115
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Backstage, KUCR circulation
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

MATERIALS AND FINISHES

BUILDING SYSTEM REQUIREMENTS

CEILING	Gypsum board	DAYLIGHTING	NA
WALLS / BASE	Tile	ELECTRICAL	120 V / 1 Phase
FLOORS	Tile or colored concrete	LIGHTING	Surface mounted fluorescents above mirrors, downlights in the aisle ways with
WINDOWS	NA		acrylic lens. 30-40 FC. Occupancy Sensor/Switch.
DOORS	FSC certified solid-core wood door	MECHANICAL	HVAC, exhaust air
	painted	PLUMBING	Floor drain, Cold and hot water, Sanitary sewer for equipment as required.
DOOR FRAMES	Hollow metal painted	SECURITY	Key access, shared Restroom to be lockable from both inside KUCR and the
			Backstage Space.
		FIRE PROTECTION	Sprinkler, 120 V hard wired smoke detector, fire alarm mini-horn and strobe in
			shared area
		VOICE/DATA	NA
		MEDIA	NA
FURNITURE +	EQUIPMENT	ACOUSTICS	
BUILT-IN	Restroom fixtures and accessories:	ACOUSTICAL MEASUR	RES NA
	1 WC, 1 lav each	BACKGROUND NOISE	CRITERIA NC-45
FIXED	NA		
MOVABLE	NA		



NA

Room Data Sheets KUCR: PROGRAMMABLE COVERED OUTDOOR SPACE BACKSTAGE SPACE (SECURE)

GENERAL INFORMATION

Space for pre-performance staging and storage.

TOTAL ASF	150
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Outdoor Stage, shared Restroom
VIEWS	NA
MINIMUM CEILING HEIGHT	8'-0"
ACCESSIBILITY	Per code
SCALE	1/8" = 1'-0"

BACK

MATERIALS AND FINISHES

CEILING	Gypsum board
WALLS / BASE	Gypsum board
FLOORS	Colored concrete
WINDOWS	Aluminum
DOORS	FSC certified solid-core wood door
	painted
DOOR FRAMES	Hollow metal painted

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	120 V / 1 Phase
LIGHTING	Pendant downlights, surface mounted downlights or direct/indirect fluorescent
	(depending on ceiling), 40-60 FC. Controlled via Switch/Occupancy Sensor
MECHANICAL	HVAC
PLUMBING	NA
SECURITY	Card key access, Magnetic contacts at exterior door, Camera
FIRE PROTECTION	Sprinkler
VOICE/DATA	1 phone / 1 data, at least one on each wall, WAP
MEDIA	Intercom station

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	NA
MOVABLE	NA
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES NA BACKGROUND NOISE CRITERIA NC-35

Room Data Sheets KUCR: PROGRAMMABLE COVERED OUTDOOR SPACE OUTDOOR STAGE & STAGE CONTROL - LIGHTING (LT) & SOUND (SD)

GENERAL INFORMATION

Outdoor Stage for performances. Sitelines will require further review during design.

TOTAL SF	720
NUMBER OF OCCUPANTS	NA
ADJACENCIES	Backstage, West Courtyard
VIEWS	NA
MINIMUM CEILING HEIGHT	20'-0"
ACCESSIBILITY	Per code
SCALE	1" = 30'-0"

MATERIALS AND FINISHES

CEILING	Outdoor Stage roof TBD
WALLS / BASE	Siding
FLOORS	Colored concrete
WINDOWS	NA
DOORS	NA
DOOR FRAMES	NA

BUILDING SYSTEM REQUIREMENTS

DAYLIGHTING	NA
ELECTRICAL	Outdoor electrical outlets for special events
LIGHTING	Truss-mounted moveable theatrical lighting
MECHANICAL	NA
PLUMBING	NA
SECURITY	See West Courtyard room data sheet
FIRE PROTECTION	Sprinkler at covered areas
VOICE/DATA	1 phone / 4 data at LT & SD Booth, WAP
MEDIA	Large installed audio system, Roll-down projection screen, Truss-mounted
	Speakers and Projector, Camera for video feed. One or two 22" wide x
	32" deep equipment racks required for audio/production equipment. Must be in
	an air-conditioned space (ductless OK).

FURNITURE + EQUIPMENT

BUILT-IN	NA
FIXED	Lighting, outdoor loud speakers
MOVABLE	NA
OTHER	NA

ACOUSTICS

ACOUSTICAL MEASURES Sound abs BACKGROUND NOISE CRITERIA NA

111

Sound absorbing wall and canopy treatment



IV. SUPPORT DOCUMENTS

The architectural narrative begins to develop the character and materials of the buildings. Narratives that describe the systems that support the buildings are provided for civil, landscape, structural, food service, acoustical, mechanical, electrical, and plumbing. Sustainability has been fore-grounded and integrated with the discussions of building character, materials, and systems. The project will obtain at minimum a LEED Silver rating. Furthermore, the design phase should explore opportunities to demonstrate sustainable principles where possible.

ARCHITECTURAL

OVERVIEW

The Barn Project Phases 1 & 2 offers the opportunity to demonstrate that these well-used (and well-loved) existing structures have utility beyond being part of the historical record. Part found object, part new intervention, the project can be a model for sustainable adaptive reuse. This project should explore an unromantic attitude toward these structures, one that retains their integrity while addressing contemporary needs and sensibilities. To that end, the development should express what is new as new, and allow the spirit of the old to remain.

The Barn Group is comprised of three existing historic barns (each to be renovated and added to), a historic cottage (to be relocated and renovated), and a new radio station. These buildings are to be interconnected through four significant new outdoor rooms. In order to be perceived as a group of related structures and activities, it is very important that the material choices and massing strategies be thought of as a whole. To organize the various structures on the site, a coordinated hierarchy of building elements is proposed.

PRIMARY ELEMENTS

The three barns (called "The Barn", "Barn Stable," and "Barn Theater") and the Cottage were part of the original Citrus Research Station that has become UCR. The Barn has a long history as an important performance venue on the campus. The overall character of this project is driven by a desire to revive and repurpose these four buildings as the central elements in this new dining and entertainment group. The goal is to update these existing structures in the spirit of their original design. The vernacular and material strategies employed in the existing structures will be the basis for material decisions. It is desirable to maintain the essential character of each structure as it is repurposed, and in several cases relocated. The buildings are to be treated as working farm structures that are being given a new life.

The existing three barns are wood frame structures on concrete slabs with painted wood siding (predominantly board and batten and some horizontal wood siding) and the Cottage has painted horizontal wood siding. The addition to The Barn north of the existing stage would be the same type of construction as The Barn. These existing buildings are predominantly rectangular structures that vary in width and height, with overhangs on four sides. They have wood windows and doors and either asphalt shingle or corrugated metal roofs.

In the renovation of these structures the exterior siding will be repaired and re-used as much as possible. New double-glazed wood windows, with true divided lights, will replace existing windows. New wood doors in various configurations will replace existing and there will be a few large sliding barn doors with glazing. Additional openings will be added to provide daylight to the spaces that are frequently occupied. The roofs will be replaced with either new asphalt shingles or standing seam metal.

SECONDARY ELEMENTS

Significant additions are to be made to each barn, in some cases nearly equal in size to the original structures. These additions should be secondary and recessive in relation to the barns. They should be compatible with the barns, but distinct as additions. They should be developed as a "family" of additive elements, which relate to each other within the group. All should have the same siding material. To contrast with the barns, horizontal metal or wood siding is recommended. Doors and windows should be metal. In order to address the varying eave heights of the existing structures they will most likely have flat roofs, with a durable, light colored single-ply membrane.

TERTIARY ELEMENTS

There are a variety of elements that are needed to knit the project into the site, to meet the functional requirements of the hybrid program, and to address the uniqueness of the existing buildings. The most significant of these is the Shade Structure in the West Courtyard. Also included are four trellises, fences, gates, restrooms, a mechanical / electrical support structure, a canopy over the kitchen service area, and the connecting elements between the existing barns and their additions. They too, should be developed as a family of elements. The shade structures should be a mixture of steel and wood, as should the fences and gates. The small buildings (restrooms and mechanical / electrical support structure) should be very recessive and closely woven in with the landscape elements. They should be "planted-out" with vine armatures on their walls over FRC or metal siding. Most are windowless, although skylights in the restrooms

ARCHITECTURAL (CONTINUED)

may be desirable. They should have low roofs, most likely flat, that could be planted if determined to be appropriate.

THE NEW BUILDING-KUCR

As the only new building in the project, as the home of the vibrant KUCR, and as the first purpose-built radio station in the UC system, this structure has several roles to play in The Barn Group. To some extent it should be a background building, a visual and acoustical buffer separating the West Courtyard from West Campus Drive and the freeway. The building should also promote the identity and presence of KUCR, as the station both makes and broadcasts radio from this site.

The design should employ composite strategies, using the hierarchy of elements outlined above. The Outdoor Stage at the West Courtyard is part of the entertainment program for The Barn. The Outdoor Stage roof will be fairly high on its east side to allow for adequate sight lines. It should relate to the Primary Elements above--barn structures--in either form or structure (or both).

To play down its size and accommodate a program that is rather inward looking (security and acoustical isolation are very important) the main part of the new building should relate to the Secondary Elements outlined above. In this case, however, a simple shed roof, lower toward the West Courtyard and higher toward the freeway, may make the most sense. Acoustical analysis will be needed to confirm that the massing is helping both to exclude freeway noise and to contain sound related to performances within the West Courtyard. Finally, the small office wing is conceived of as a flat roof tucking under the larger shed. It should relate to the Tertiary Elements outlined above.

FLEXIBILITY / ADDRESSING CHANGE

The programmed spaces allow for flexibility and many of the spaces could be adapted (if need be) over time. Whether tailored for the specific needs of performance, dining, or radio production, the buildings should be designed to respond to a variety of formal and informal activities that change over time.

SUSTAINABLITY

An integrated design approach will be needed to achieve sustainable design. Concentrating on "first principles"--of orientation, shading, natural ventilation, and other passive strategies--will go a long way toward achieving sustainable design in this climate. Among the most important concepts are durability and consideration of the life cycle impact of these buildings. All materials need to be long-lasting and low maintenance.

The goal of obtaining LEED Silver, as mandated by the University, should be easily met. Raising the bar higher, to LEED Gold, is possible, with little cost impact. Designing the buildings and landscape to reveal their sustainable systems and to educate their users about "green" principles should be a fundamental aspect of the design.

BUILDING AND LANDSCAPE

The Riverside campus has a number of very successful outdoor spaces. These are a key part of the campus character and identity. This project is committed to contributing to and extending the outdoor spaces on the campus. The potential for integration of indoor and outdoor spaces is deeply imbedded in the building program. In the development of the design, the building and landscape should be seen as inseparable partners, so that in the end the project has as much to say about successful outdoor spaces as it does about successful interiors. These outdoor spaces will be able to support a variety of activities. An effort has been made to program the outdoor spaces with as much specificity as the interior spaces. These spaces can work with the buildings to establish the character of The Barn Group and engage the natural cycles of the site with the theater of everyday life.



CIVIL

*Note: See "Utility Points of Connection" Diagram in Section II (Functional Concepts)

GENERAL SITE WORK

The majority of the site work for the Barn Project Phases 1 & 2 will be completed during Phase 1 of construction. Although final landscape and hardscape treatments for certain areas may wait until Phase 2 construction is complete, underground utility work, grading, the majority of the drainage systems, and primary paving should be incorporated into the early Phase 1 construction activities.

GENERAL UTILITY ISSUES

Utility design and construction practices shall follow UC Riverside standards. Where UC Riverside standards do not exist, appropriate local, state, and federal regulations shall be followed. For utilities such as graywater and rainwater, where local codes may inhibit standard green building design practices, the University shall support the design team's use of codes from other municipalities within the State of California.

Specific design related items include:

- Provide a minimum five (5) foot separation between outside edge of building foundations and centerline of nearest underground utility line.
- Provide separate meters for each building to allow for effective commissioning and long-term use monitoring for gas, water, power, hot water, and electricity.

WATER

Domestic water will require new points of connection for the proposed buildings within The Barn Group. At this time the civil engineer assumes that there will be three new connection points as per the utility diagram. The existing 12" water line running to the west of the Barn Stable conflicts with the proposed location for KUCR and will need to be relocated further to the west. The point of this relocation shall serve as one of the water points of connection (see utility diagram).

A three valve cluster will be installed at each point of connection; one isolation valve on the service lateral, and two valves at each tee head. Each building will require the installation of a separate meter on this service lateral. Size of water service laterals will be provided by the MEP.

Fire suppression water supply is combined in the same piped network as potable water. Location of a new fire hydrant, if required, will be coordinated with the campus Fire Marshall.

A water softener will need to be installed for the Kitchen Addition within The Barn Group. This should be located within the Kitchen Addition.

SANITARY SEWER

At least one new sanitary sewer point of connection will be required for The Barn Group. This connection will occur to the southwest of The Barn Group as per the utility diagram. At this new point of connection a sanitary sewer manhole will be constructed. During the conceptual design phase the civil engineer may evaluate the option of including an alternative point of connection for the Cottage and proposed outdoor Public Restroom at the East Courtyard (see utility diagram). Size of sewer service laterals will be provided by the MEP. A grease interceptor from the kitchen will be required.

GRAYWATER

There is no recycled water system on campus and as such alternative reclaimed water resources would have to be derived from onsite sources. The most viable water reuse source on site is the graywater generated within the Kitchen Addition. In order to tap this source, the Kitchen Addition will need to be dual plumbed so as to separate graywater from blackwater. Graywater is defined as wash water that typically comes from sinks, showers, and laundry facilities; while blackwater is defined as water that is exposed to organic material. Within the Kitchen Addition it is assumed that graywater would be generated through water sources that have minimal-to-no contact with organics. Sinks used to clean soiled items will be connected directly to the sanitary sewer. Kitchen sink layout and type of use will be provided by the Foodservice Consultant and MEP.

Graywater collected from the Kitchen Addition should be treated through filtration and disinfection, and used immediately for toilet flushing or irrigation. Graywater shall not be stored longer than 24 hours prior to use. Graywater system design will follow the Uniform Plumbing Code. Construction of a graywater system is estimated

CIVIL (CONTINUED)

to cost between \$25,000 and \$40,000 (actual cost will depend on length of piping installed, filtration system specified, disinfection system specified, and type reuse). Given the relatively low cost of water in Riverside, this system is not expected to pay for itself within its design lifespan. This system would however provide an exceptional opportunity for demonstration by the university and help the project meet UC Riverside's sustainability goals.

ELECTRICAL

The electrical point of connection will occur at Vault 3A (see "Utility Points of Connection" diagram), allowing connection to the 12kV substation. This project will require that the existing transformer and 800 amp service be replaced with a new 480kVa transformer and 600 amp service that meets the project demands as per the MEP. The existing service will be replaced with new copper conduit for all new service connections. New electric meters shall be installed at each building. The existing transformer will need to be replaced in order to accommodate the 600 amp service; and may be pad-mounted as per UC Riverside standards.

The conduit between MH 12 and MH 13 is currently out of use but should be reserved if possible for reuse with data/telecommunications.

The line to the west of the current Barn Stable location (feed to CHASS) can be slurry capped and spanned with a bridge foundation in order to avoid moving the line.

The old 800 amp service and transformer shall be retained by the University.

NATURAL GAS

The Kitchen Addition and Barn Stable will have connections to natural gas. This point of connection will occur along the existing line running to the south of the site at the location shown on the utility diagram. The project shall reuse the existing service lateral and gas meter if approved by the provider, Southern California Gas.

FIBER OPTIC

A fiber optic line will be run from Sproul Hall for fire communication.

TELECOMMUNICATIONS

Existing telecommunications conduits run along the western and southern side of The Barn Group. New runs will be required for some of the buildings. Feed to KUCR will come from the conduits running to the west. Feed to the Cottage will come from the vault to the south. Reusing the existing conduit to feed the Kitchen Addition is a possibility. The Telecommunications infrastructure is to be design by the Telecommunications consultant.

A new AV switching mechanism will be placed outside Vault 3A.

STEAM / CHILLED WATER

The point of connection for steam and chilled water is in Tunnel Vault 15 to the south of Watkins Recital Hall. See utility diagram and the MEP narrative for more information.

STORMWATER

Stormwater shall be managed in order to meet LEED Credits 6.1 and 6.2 for stormwater runoff quality and quantity. Impervious areas will be minimized and stormwater will be treated as close as possible to the point at which it falls. Drainage design shall minimize piped flow and maximize overland surface flow to treatment areas. Permeable, interlocking pavers shall be used for hardscape surfaces wherever possible and configured for onsite infiltration. Softscape treatments, such as rain gardens and bioswales, shall be integrated into the landscape design where feasible. During the design phase, effort should be made to keep stormwater management facilities visible, thereby enhancing The Barn Area as a demonstration project. Additional UC Riverside stormwater requirements, if more stringent than LEED, shall be met.

GRADING / EARTHWORK

Grading and earthwork will be minimized onsite and an effort will be made to balance cut and fill across the project.

CIRCULATION

Circulation will be improved via changes to the loading bay areas. The kitchen approach will be adjusted so that trucks approach from the south and pull into a new parking lane, allowing parking and unloading without traffic lane obstruction.

CARBON

CO2 emissions for the facility will be minimized through design and infrastructure selection. Additional vegetation will further offset carbon

LANDSCAPE

The outdoor spaces of the Barn Project Phases 1 & 2 are a series of interconnected courtyards shaped by the surrounding buildings. A strong connection between indoor and outdoor spaces is achieved through large doors and wide exterior corridors. The landscape (layout, plantings, hardscape, and shade elements) will be designed to reflect the rich agricultural heritage of the region and The Barn Group.

The Barn Walk, the main pedestrian route from the site to East Campus, is separated from the Sproul Hall service drive with a planted corridor of orange trees that tie into the existing orange grove to the north of the project. This citrus allée will also function to screen the Sproul Hall loading dock from the project site. Bike traffic will use the service road with pavement striping to separate a bike lane.

The Eucalyptus Walk, which approaches the project site from the east, terminates at the intersection with the Barn Walk. This important intersection will be studied during design so that it functions in several ways: as circulation, as a visual endpoint of the two walks, and as a courtyard garden/meeting place. One possible reference may be the historic rancho garden, with a courtyard of decomposed granite inset with informal plantings.

The East Courtyard at The Barn and Cottage will be shaded by the large existing shade trees. This courtyard will have moveable furniture for dining and gatherings. The West Courtyard will be shaded by a large shade structure and used for dining and outdoor performances. A lower area in front of the Outdoor Stage will be used a flexible space for everyday dining or as an auditorium for performances. Moveable furniture as well as broad steps and other landscape elements will accommodate a variety of formal and informal seating.

The Barn Stable will have its own patio enclosed by low walls or fences accessed by gates and will be separated from the rest of The Barn Group by plantings.

Fencing and gates will be designed with transparency and security in mind. Wood and steel will be the primary construction materials. The design of the fences and gates will be integrated into the tertiary shade structures and planted trellises. The operable gates will allow for a variety of possibilities for enclosing the Barn Stable Patio and the West and East Courtyards. For instance, access to the West Courtyard performance area can be controlled by rolling gates to completely enclose this area for alcohol and ticketing control.

The hardscape will be durable and light-colored to minimize the heat island effect. The design will consider areas of permeable paving to reduce runoff. Planted bio-swales will retain, clean, and slow down storm water before it reaches the storm water drainage system. Rainwater collection for onsite usage (toilet flushing, irrigation) will be considered. Other ornamental planting areas will feature drought-tolerant perennials and shrubs and will add softness, color, and aroma. The plant palette will include shade trees such as Sycamores and Oaks; citrus and possibly other fruit or nut trees (avocado, walnut); drought-tolerant native or Mediterranean perennials, featuring flowers suitable for cutting for use in dining table arrangements; shrubs; vines (grape or kiwi as potential edible vines.) There is also the possibility of an herb garden to be used by the Kitchen Addition.

The approach to exterior lighting is a subtle integration of lighting fixtures into the proposed built structures: recessed wall lights at steps and ramps; dimmable down lights from the West Courtyard Shade Structure; down lights from existing trees at the East Courtyard; downlights from the trellises at the Barn Stable Patio. Low path lights in planting areas adjacent to walkways will supplement where needed for circulation safety.

Site work will include the necessary service access for Sproul Hall with a revised layout of parking spots and 3 dumpsters. Truck exiting this Loading Dock will back out onto West Campus Drive as they currently do; no turn around will be provided. Screening of the Sproul Hall Loading Dock will be achieved as mentioned above with a citrus allée running along the Barn Walk.

The design of the landscape will play a key role in ensuring a pleasant experience along West Campus Drive at the western edge of the project, which is largely a service area. The Drive Aisle that runs parallel to West Campus Drive allows for: truck delivery to the Kitchen Addition, access to KUCR parking, and a more continuous pedestrian experience. A carefully designed strip of plantings and trees will provide screening of this area.

STRUCTURAL

THE BARN

We do not anticipate needing to do any significant work to the framing to resist vertical gravity loads. However, in many areas, the existing framing and siding appears to be near or in contact with the exterior grade. The building should be surveyed for water damage and repaired as needed.

Based on a review of the available structural information, The Barn will most likely require a seismic upgrade as part of a comprehensive renovation. The structure is both too weak and too flexible in its current state, relative to modern safety standards. Fortunately, upgrading can be relatively straightforward and cost effective.

The existing straight-sheathed roof diaphragm is inadequate to transfer seismic loads to the walls. It can be easily upgraded by adding a layer of plywood sheathing directly to the existing structure. This work would be integral with improving the insulation and re-roofing the building. The proposal is to work above existing sheathing and keep in tact the structure as exposed from the inside. Once the existing roof has been removed to bare structure, the new plywood would be nailed directly to the framing. Because the building is currently not insulated, a layer of rigid insulation would be added over the new plywood. The insulation would change the appearance of the building by raising the roof by around six inches. To maintain the look of the exposed rafter-tails and roof overhang, the existing rafter-tails would be removed flush with the wall line. A new set of false tails would be set on top of the new plywood and overhang past the walls. The new framing would exist above the diaphragm, but within the layer of insulation.

The overall appearance of the building would be similar, except that the building would be taller by the height of the new insulation. The roof framing forms a low monitor at the ridge, the full length of the building. The insulation layer would also be added to the monitor. To preserve the roof appearance similar to its current state, the exposed rafter framing at the monitor would be removed and replaced in kind. The new position would be higher due to the insulation. Like the rafter-tails of the main roof, the final appearance of the monitor would be similar to the current state.

The most cost effective and straightforward way to improve the seismic strength of the structure is to add new plywood sheathing to the existing wood stud framing. The wall locations best suited for new plywood are at the ends of the structure. In plan, the walls would appear as bookends. Both transverse wall elevations would be sheathed. Additionally, one segment of wall would be sheathed at each end of each longitudinal elevation. This placement of sheathing works well with existing walls, and would not disrupt the function of the building. The sheathing will be placed on the inside of the stud framing once gypboard finishes have been removed. This placement preserves the existing historic wood sidina.

It is recommended that the exterior of the Kitchen Addition be built with concrete masonry exterior walls with steel light gauge construction or wood stud for internal framing. If steel framing is selected for the interior, the walls would be steel studs and the roof would be framed with steel joists and beams partially supported by the exterior CMU walls. Because concrete masonry and steel joists

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have problems with thermal bridging, a layer of rigid insulation would most likely be needed outside of the walls and over the roof, to get satisfactory insulation. The roof sheathing would be shallow gauge metal deck with the CMU providing lateral strength for the walls. The foundations would be shallow wall footings with a slab on grade. The new construction would be seismically separated from the existing Barn Dining structure.

If wood stud framing at the interior were used, the construction would be similar to the light gauge steel. The walls would be wood studs and the roof joists would be either solid lumber or engineered I-joist. The roof sheathing would be plywood. A seismic joint is needed to separate the CMU and existing wood structure. Unlike with steel framing, rigid insulation at the roof would not be necessary.

Several issues should be considered in the selection of the framing system. The metal stud framing is considered to be straighter, and more durable with respect to moisture resistance. However, there would be several advantages to using wood framing. Wood framing is architecturally in keeping with the existing buildings of The Barn Group. It is also the most appropriate material from the prospective of environmental sustainability – especially if Forrest Stewardship Council (FSC) certified wood is used. Often wood framing is less expensive than other forms of construction. The issues of longevity can be addressed with good detailing practices that are supported by good maintenance. Finally, if wood framing were used throughout (instead of CMU for the exterior walls), then rigid insulation and a seismic joint would not be required.

STRUCTURAL (CONTINUED)

BARN STABLE

The Barn Stable is to be relocated. The new site would be prepared with a new foundation supporting a concrete perimeter curb. Presently, areas of framing and siding appear to be in contact with the exterior grade. The building should be surveyed for water damage and repaired as needed. The lower portions of the stud framing and siding should be removed (approx. 6") to have the building positioned on the new curb above grade.

Like The Barn, the Barn Stable will most likely require a seismic upgrade as part of a comprehensive renovation. In a similar fashion, the structure can be strengthened and stiffened with plywood sheathing to meet modern standards.

The existing roof diaphragm of corrugated metal sheathing is inadequate to transfer seismic loads to the walls. A layer of plywood sheathing can be added over the metal sheathing and fastened to the existing structure. This work would be integral with adding new rigid insulation and re-roofing the building. Working above the existing corrugated sheathing will keep the exposed structure in tact from the inside. Like The Barn, the added insulation would change the appearance of the building by raising the roof by around six inches. However, a similar strategy of false exposed rafters would keep the overall appearance of the building similar to its present state.

The seismic strength would be improved by adding new plywood sheathing to the existing wood stud framing. The sheathing would be placed on the inside of the stud framing. This placement removes the existing poor quality interior finishes and preserves the existing historic wood siding. New framing that is part of the stable building could be either light gauge metal or wood stud. The same issues noted for the Kitchen Addition apply here.

COTTAGE

The Cottage is to be relocated. The new site would be prepared with a new foundation. The structure presently has a wood framed floor that would be preserved. By altering the design of the perimeter curb and foundation, the final height of the building could be set at various levels. The building could possibly be set relatively lower than its current state. This change would reduce the length and appearance of the new exterior ramps.

The improvements to the seismic capacity of the building would be made by adding new plywood sheathing. The roof structure would be sheathed above the existing sheathing and the roof replaced. Because the cottage has flat ceilings, additional insulation would be placed in the cavity above the ceiling and below the roof. No changes to the eave framing would be needed. New wall plywood sheathing would be added to the interior face of existing stud framing, once interior finishes have been removed and replaced as needed.

Additionally, the chimney anchorage would be improved for seismic resistance.

KUCR

The new structure that will house the KUCR radio station should be recognized as a very important building to the community for emergency response, especially after a major earthquake. The building is planned to be quite small with one story of approximately 4,500 sf. Because of its modest size, there is the opportunity to cost effectively make the structure stronger than a conventional building. Essential Facilities, such as police and fire stations, are made 50% stronger relative to ordinary buildings in recognition of their importance to the community. Although the radio station has no such code requirements, we suggest that emergency broadcasts would be an essential function after a regional disaster.

The structure can be made of many materials. We propose using concrete masonry walls in critical areas to get good acoustic performance. Other areas of framing could be of either wood stud or light gauge studs. The roof framing could be with either wood joists or light gauge steel joists. Where long spans are needed, such as over the Outdoor Stage and for the canopy, structural steel or glulam beams could be used depending on the architectural expression desired and depth requirements. The advantages of light gauge steel and wood framing listed for the Kitchen Addition also apply here.

FOODSERVICE

THE BARN

The Dining Master Planning Study (DMPS) determined potential foodservice demand of 320 meals per hour as opposed to the current 120 meals per hour, an increase of 2.5 times.

The Barn foodservice demands require The Barn Kitchen to provide meals for The Barn and support for the Cottage, Barn Stable functions, catering and pre-packaged food items for Ivan's, a catering truck and potential food carts and a barbeque on the West Courtyard. Day part service is lunch, happy hour, dinner and potentially breakfast. Dining areas include interior seating with a small Indoor Stage at Barn Dining, outdoor eating at the West Courtyard with a large Outdoor Stage, and quiet courtyard on the east side of The Barn.

The DMPS assigned area requirements by function for The Barn to support these foodservice requirements. This recent study and the earlier 2009 Barn Area Study (BAS) presented the need to expand the kitchen and servery. The 2009 BAS proposed an addition to the west side of The Barn to support the requirements but did not address the potential dining demand presented in the DMPS. Accordingly, additional kitchen expansion is necessary to support the anticipated foodservice demands.

The DMPS proposed an operational style of order and pre-payment of meals with the customers recalled to the servery when the meals are ready, putting double circulation requirements on the servery. Thus the decision was made to change to a post-pay system in order to eliminate half of the required circulation space demand. It was also decided to forgo the use of china ware and instead use disposables, re-usable trays, and self-bussing stations located in each of the three dining areas.

The servery has 4 food stations (Pizza, Salad/Cold Sandwich, Hot Sandwich/Specialty and Grill), as well as a self-serve beverage counter and two double sided dual tandem Point of sale (POS) counters. The condiment counter is to be located behind the beverage counter facing Indoor Seating. A bar window will be located on the west wall near the west POS station for wine and beer sales.

All finish food preparation is "on stage" to promote fresh food, freshly prepared.

The Kitchen functions include dry storage, catering storage, cold storage, cold food prep, hot food prep, catering staging, ware-washing and bar, ice machine, soda system room, change room and two offices.

The Service area is to support deliveries and house the storage of: empty vendor racks/bottles, a refillable CO2 tank, a trash compactor, recycling bins, and a used cooking oil tank. Access to staff restrooms is through the service area. It is anticipated that a remote compressor rack will be located on the roof.

COTTAGE

The Cottage is located east of The Barn and programmed to be a coffee house serving coffeebased beverages, hot tea, cold blended beverages, pastries, self-serve cold bottled beverages, prepackaged salads and sandwiches. Day part service is breakfast, lunch, afternoon, and evening. Some exterior seating will be provided at the South Cottage Patio and the East Courtyard. It will be supported by The Barn kitchen with bulk storage and food prep.

BARN STABLE

This facility is located northeast of The Barn and will host occasional lunches, teas, dinner, meetings and banquet functions. A small pantry kitchen with grill, warming oven and dishwashing will be supported by The Barn Kitchen and will have a full service bar in a multi-function room and a patio. It is not programmed to operate as a restaurant on a daily basis.

ACOUSTICAL

OVERVIEW

The acoustical design issues include room acoustics, sound isolation, mechanical equipment noise and vibration control, and sound reinforcement.

WEST COURTYARD

The main outdoor courtyard space will be used for both dining and outdoor entertainment. Freeway noise and possibly mechanical system noise are potential issues in this space. To optimize the acoustical quality in the space as it is developed, the following should be considered:

To the extent feasible, building massing should be used to block freeway noise into the outdoor use space.

The building surfaces facing into the outdoor area space should be made sound absorbing to the extent feasible so as to mitigate echoes and reverberation.

Overhead canopies, trellises, and other feasible design elements could work together to mitigate freeway noise intrusion into the outdoor area space, as well as to provide shading.

Installing a high quality audio system could enhance the sound quality in this space. The sound system could be used for live performances, radio station broadcasts, background music, and campus wide announcements. If a trellis system is installed overhead, then loud speakers could be located in this structure to provide distributed sound at a acceptable sound level.

A permanently installed sound system, if electronically controlled, could mitigate disturbing sound transfer to adjoining classroom buildings.

BARN AND BARN STABLE

Controlling excessive reverberation in dining and serving areas is important to the overall quality of the spaces. The sound absorbing material selected for these spaces need to be reconciled with the interest in having an exposed ceiling/roof structure.

MECHANICAL EQUIPMENT NOISE AND VIBRATION CONTROL

When designing controls for mechanical equipment noise and vibration both inside and outside the buildings, the recommended criteria will vary depending on the use of the space. A broadcast facility may require a background noise level of NC 20, where as an appropriate background noise level for a dining facility would be NC 40. The typical noise limit for mechanical equipment is 40 dBA in outdoor use areas such as dining.

KUCR

Sound intrusion into acoustically sensitive areas at the radio station is obviously important. During programming, the specific sound isolation requirements for each room were reviewed.

Controlling excessive reverberation in broadcast, meeting and other areas must also be addressed. The selected criteria will be a combination of industry standards, our experience with similar projects, and the specific insights and requirements of the user group.

The Master Control Room will serve as the primary on-air studio, accommodating larger interview and multi-person broadcast team use, and will also serve as a music mixing control and broadcast space for musical performances at the Outdoor Stage and the conference/performance space.

The Production Studio(s) will be capable of operating as stand-alone on-air studios as well as pre-production editing spaces. One or two additional on-air microphone locations will be provided for small interview, multi-person broadcast and voice-over functions.

High-performance acoustical isolation will be concentrated in at the Master Control Room, and may include a concrete floating floor to isolate low frequency noise from the attached (or at least adjacent), Outdoor Stage.

System Narratives

ACOUSTICAL (CONTINUED)

Some type of outdoor acoustical absorption should be considered for the exterior walls and the overhead canopy at the Outdoor Stage. This will create a better performance environment for the on-stage performers as well as reduce the amount of "stage-spill" sound (sound projected directly from the Outdoor Stage versus that from the sound system), allowing better control of sound radiated to adjacent buildings and outdoor spaces.

SOUND REINFORCEMENT

Having a permanent sound reinforcement system associated with the exterior entertainment dining area will help limit sound emissions. This will minimize noise impact on adjoining outdoor and indoor use spaces, particularly the radio station. Locating and integrating the loudspeakers into an overhead trellis system could combine shading, aesthetics, and a distributed sound system.

FREEWAY TRAFFIC NOISE

To reduce traffic noise levels in the outdoor dining area, new buildings could be located to provide a noise barrier. This could be considered as a part of building massing studies.

MISCELLANEOUS

Sources of noise such as kitchen exhaust fans will also need to be reviewed so that the noise emissions do not annoy people in the vicinity, particularly outdoor use areas.

MEP

INTRODUCTION

The mechanical systems for the Barns Project Phases 1 & 2 will be designed to optimize performance, and minimize maintenance and energy use. Three distribution options are proposed, all of which take advantage of the central campus chilled water and steam utilities. A central mechanical room located in the Barn will then distribute heating hot water and chilled water to the other buildings on site. Energy conservation will also be achieved by optimizing natural daylight, selecting energy efficiency lighting, and using lighting controls such as occupancy sensors, photocells and dimmers. Low flow fixtures are recommended for use throughout the site to reduce overall water use by at least 30%.

5.3 HEATING VENTILATION AND AIR CONDITIONING (HVAC)

Systems Design Philosophy:

HVAC system components and distribution layouts will have the following characteristics:

- 1. Modular approach.
- 2. Energy and resource efficient.
- 3. Flexibility for future changes.
- 4. Durability.
- 5. Ease of maintenance.
- 6. Reliability.
- 7. Redundancy of critical components.

5.3.1 Codes and Standards

- NFPA Codes, current editions, as applicable
- ASHRAE Standard 62-2004 Ventilation for
- Acceptable Indoor Air Quality
- ASHRAE Handbooks, current editions
- SMACNA Duct Construction Standards

5.3.2 HVAC Design Criteria

Location: Riverside CA Latitude: 34.0° N 117.4° W

Elevation: 1007 ft.

Outside Design Conditions:

Summer: 110°FDB/68°FWB (per UCR standards) Winter: 34°F DB

Interior Design Conditions:

Occupancy	Summer	Winter
Conference/Meeting Rooms:	75°F DB, 50% RH*	70°F DB
Offices:	75°F DB, 50% RH*	70°F DB
Dining Areas:	75°F DB, 50% RH*	70°F DB
Kitchen:	75°F DB, 50% RH*	70°F DB
Telecom/Data Equip Rooms:	70°F DB, 35%-55% RH 35%	70°F DB, %-55% RH
Mech/Elec:	95°F DB max	65°F min

* Humidity control is not required in General Occupied Spaces, but may be necessary in Telecom / Data Equip Rooms, as recommended by equipment manufacturers.

* Where radiant cooling is used comfort conditions will be maintained by designing to the operative temperature which incorporates both air temperature (DB) and mean radiant temperature.

Outdoor Air Ventilation:

 Minimum Outdoor Air Ventilation rate will be 15 cfm / occupant, as recommended by Title-24 as it exceeds ASHRAE for dining spaces, based on maximum number of people in each space taken from Project Room Data Sheets, whichever is higher. Where the LEED EQ Credit dictates a higher air flow will be used.

- Internal Heat Gains: Heat gain from occupants will be calculated according to ASHRAE guidelines for maximum number of people in each space taken from Project Room Data Sheets.
- Heat gain from lighting will be calculated based on the actual layouts and fixture types obtained from the electrical drawings. For energy efficiency the lighting design will employ lower ambient lighting levels with task lighting.
- Heat gain from equipment will be based on information received from specialty consultants (i.e kitchen consultant, telecom, etc.) and project cut sheets.

5.3.3 Energy Efficiency

The UC system mandates that all new buildings are required to beat Title 24 by a 20% margin. The building will need to incorporate sustainable design measures to meet the requirement of LEED® Silver Rating.

The building envelope shall be designed to beat the T-24 minimum requirements by a margin of 20%. T-24 prescriptive envelope requirements for California Climate Zone 10 are given below:

• Roof Wall Floor	R19 R13 R11
 Glazing U factor RSHG 	0.47
	0-10%

	Non- North	North	1
0-10% WWR	0.47	0.61	(
11-20% WWR	0.36	0.51	(
21-30% WWR	0.36	0.47	(
31-40% WWR	0.31	0.47	(

MEP (CONTINUED)

Glazing systems shall be selected to provide optimum Shading Coefficients / Solar Heat Gain Coefficients and U-factors on each exposure of the building. External shading is recommended where possible for non-north exposures.

- Glazed areas shall be optimized to maximize effective use of natural day-lighting and allow views to the exterior and to the interior.
- Operable windows will provide natural ventilation of rooms in perimeter zones (where applicable by program). Operable windows shall be under the control of occupants and the users will maintain the windows in the appropriate position when supplemental heating or cooling is provided from the mechanical system.

HVAC systems will incorporate energy conserving features known to be economically feasible. The design will first focus on passive systems such as thermal mass and natural ventilation (where applicable by program) which provide the most energy benefit at the least cost. Once the cooling and heating loads have been minimized then the most efficient active systems will be explored. Technologies to be explored include, radiant cooling and heating, chilled beams, active thermal mass, heat recovery, dedicated 100% outside air economizer cooling cycle for air handling systems, CO2 sensors utilized to control minimum outdoor air, variable frequency drives for control of fans, and premium efficiency motors. Additional energy conserving features, such as variable speed drives for pumps, indirect evaporative cooling of outdoor air, and heat recovery from exhaust systems will be evaluated during the Schematic phase and provided if shown to be economically feasible.

Utilization of renewable energy sources, such as solar panels for water heating, wind power and/ or photo-voltaic power for supplemental power generation will be evaluated during the Schematic phase and incorporated into the project if shown to be economically feasible. Three (3) additional LEED® credits are available for renewable energy.

5.3.4 HVAC Systems

The graph below shows an annual plot of temperature in Riverside as it relates to human comfort. As can be seen there is a defined heating and cooling season. In the peak of the cooling season there is a 15°F diurnal variation which allows for a night time purge cycle however there are periods where the night time temperature is above interior comfort conditions so the purge cycle would be limited in these months.

Thus the buildings will need to be conditioned (heating and cooling) but will be done in a mixed mode fashion so that natural ventilation can be used in periods where conditions allow.

Three ventilation and air conditioning systems appropriate for the building are being proposed for evaluation during the Schematic Design phase. The evaluation will be based on a life-cycle analysis considering capital first cost, projected energy/operating costs, and maintenance cost.



MEP (CONTINUED)

Option 1 is a base case design of a single duct over head variable air volume (VAV) systems, with hot water reheat. Based on current thinking for building organization this is likely to be split into a single air handling unit per building.

This system has the following characteristics:

Demefite	Come
Benefits	Cons
Conventional system with known installation and maintenance procedures.	VAV boxes create noise. A ceiling is often used to limit noise transfer, adding cost to the system. Acoustical tile or gypsum board ceilings, whether installed for acoustic or aesthetic reasons also limit the opportunity to use exposed structure as a thermal mass that would moderate the temperature swings.
The users may prefer finished ceilings below mechanical equipment for aesthetic and acoustic reasons.	Added cost to provide individual control at each perimeter office per LEED® IEQ Credit 6.2.
	Higher fan pressure reduces energy efficiency. Estimate system performance between 10-15% below ASHRAE 90.1 Achieving the mandatory 20% below T-24 is a challenge with this system.
	Reduced IAQ (Interior Air Quality) and comfort compared to other systems described below.
	Higher floor to floor heights required, increasing cost for building structure and envelope.

Option 2 is a Dedicated Outside Air System with radiant floors. For costing purposes 1/2" tubing on 6" centers may be assumed for radiant floors, with combined heating and cooling zones in a 15 foot perimeter band. The interior zones would be cooling only. Individual control of offices and enclosed spaces (KUCR) would be provided. The ventilation system would be 1/3 the size of the all system described in Option 1 above. The optimum location for the ventilation air is at low level so the displacement effect can be used.

The radiant floor assembly will consist of a topping slab with a total thickness of 3 inches. This includes 1 inch for insulation between the slab and topping slab, and a 2 inch thick topping slab.

This system has the following characteristics:

Benefits	Cons
Excellent IAQ.	Unconventional system with which some subcontractors are unfamiliar.
Excellent control.	Limited load capacity. Must be comprehensively designed to balance demand with capacity. May require building occupants to moderate heat gain from lighting, computers, equipment, etc.
Excellent comfort.	Require exposed thermal mass to allow passive cooling.
Reduced floor to floor height.	
Very responsive system	
Can work in tandem with natural ventilation with control monitoring.	
Very energy efficient. Both hydronic cooling and displacement AHUs run at higher chilled water bigher	
temps allowing the central plant to run at its maximum efficiency.	

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Option 3 is a dedicated outside air system with active chilled beams. The active beam density at the perimeter would be one 6 foot beam per 100 sq.ft. Individual control of offices would be provided.

This system provides:

Benefits	Cons
Very good IAQ. The	Unconventional system with
system is not	which some subcontractors
displacement but the	are unfamiliar.
dedicated outside air	
system provides	
constant rates of	
outside air.	
Very good control.	Limited load capacity. Must be comprehensively designed to balance demand with capacity. May require building occupants to moderate heat gain from lighting, computers, equipment, etc.
Excellent comfort.	Works best with exposed
	thermal mass to allow
	passive cooling.
Night time cooling with	
low energy. This option	
allows more celling to	
be exposed	
very energy efficient	
ade to higher chilled	
temperatures	
Achieving the	
mandatory T-24	
energy performance is	
readily accomplished	
and further LEED®	
credits could be	
achieved.	
Can work in tandem	
with natural ventilation	
as the outdoor air is	
induced through the	
active beam, tempering	
the outside air	

MEP (CONTINUED)

In each option air handling system(s) will be drawthru unit(s) with supply air fan, return/exhaust fan, outside air, return air and exhaust air dampers for 100% outside air economizer cooling cycle operation (option 1 only, option 2 and 3 are 100% outside air units without return fans or economizer), chilled water cooling coils, hot water heating coils, air filters, and acoustic attenuators as required to achieve design space noise levels.

Indirect evaporative cooling units will be considered and evaluated for 100% outdoor air supply.

Separate systems will be provided for areas with distinct functional or occupancy requirements and/ or operating schedules, continuous cooling/heating requirements, and/or other unusual requirements.

Equipment will be selected with sufficient capacities to satisfy calculated building heating and cooling loads with allowances for future growth/remodeling of facilities as determined in collaboration with Campus engineering and facilities personnel.

Cooling and heating coils will be selected in accordance with the requirements of the Campus Standards and Design Guidelines as follows:

- · Chilled Water Cooling Coils;
- · Hot water heating Coils; and,
- · 450 fpm maximum coil face velocity.

Minimum air filter efficiencies will be selected to meet LEED® IEQ 5 criteria:

• MERV 13 for air handling systems serving all spaces.

Temperature control zones will be provided as required by the building envelope design, space uses, occupancy, required times of operation, and/ or other special requirements.

Any night time cooling strategies will take into account the occupant load profile and morning temperatures will not prevent uncomfortable conditions.

Supply (or ventilation air) will be distributed throughout the building via insulated sheet metal ductwork and industry standard air diffusion devices. Displacement diffusers will be used in option 2.

There will be no exposed fiberglass duct liner installed in supply ducts downstream of the air filters. Noise control will be achieved by the use of attenuators.

Return air will be ducted where required, or transferred back to the air handling unit(s) via the ceiling plenums where the building design permits.

Toilet rooms, janitor's rooms, food service and other areas where heat and/or odors are generated will be ventilated with mechanical exhaust systems. Food service areas will be served with dedicated exhaust and make-up air per the recommendations of the kitchen consultant.

Exhaust fans will discharge minimum 10 feet above grade level and minimum 10 feet away from air intakes or other openings into the building.

Mechanical rooms will be designed to accommodate equipment with adequate access and clearances for maintenance and replacement of components during the life of the equipment. Roof top air handling units are envisioned for the project.

5.3.5 Cooling System - Chilled Water Supply & Return

Site Utilities: Chilled water will be supplied to the building from existing campus Central Plant utility sources. Connection locations: Vault-15.

It is anticipated that existing site utility systems have sufficient capacities to support the estimated additional loads to be imposed by the new and/or renovated structres. Actual loads will be verified during Schematic Design. It should be noted that Options 2 and 3 above require higher chilled water temperature than the 45F available. It is possible that return chilled water can be used to feed the chilled beams or chilled ceilings, raising the general Campus chilled water return temperature and not imposing a load on the chilled water supply.

A hydraulic decoupler will separate the Campus and building chilled water supplies. Two (2) chilled water pumps, each sized for 60% of design flow, will be located in a mechanical room in the Barn. The arrangement and control of the pumps for alternating lead-lag operation will be in accordance with the Campus Standards and Design Guidelines. Variable frequency drives (VFDs) will be used if it is shown to be cost effective to do so. VFDs will be located in cooled spaces or where they can be effectively cooled by general building exhaust air.

Cooling coils will be controlled by modulating control valves with DDC (Direct Digital Control) actuators.

Chilled water supply and return piping will be insulated Schedule 40 black steel, or Type L copper.

MEP (CONTINUED)

5.3.6 Heating System

Heating hot water for the complex will be supplied via the Campus steam loop. Heat transfer will via a tube and shell heat exchanger will occur in the mechanical room, located in the Barn.

Two heating water pumps, each sized for 60% of total design flow, will distribute hot water to heating coils in air handling units and chilled beams/ radiant floors (and if provided at VAV boxes). The arrangement and control of the pumps for alternating lead-lag operation will be in accordance with the Campus Standards and Design Guidelines. Variable frequency drives will be used if it is shown to be cost effective to do so. VFDs will be located in cooled spaces or where they can be effectively cooled by general building exhaust air.

Heating coils will be controlled by modulating control valves with DDC actuators.

Heating piping will be Schedule 40 steel, or Type L copper piping, and will be fully insulated.

5.3.7 Central Plant Option

An alternative approach to using the campus utilities as described in sections 5.3.5 and 5.3.6 is to build a dedicated central plant for the facility. The central plant would consist of a cooling tower, water-cooled chiller and condensing boiler. Primary pumps for condenser water, chilled water and heating hot water will be provided. Associated secondary pumps for chilled water and heating hot water will be as described in sections 5.3.5 and 5.3.6. Issues to consider with the central plant option include: requirement for outdoor space for the central plant facility (with covered structures for the chiller, boiler and pumps), acoustical impact of central plant on surrounding outdoor patios and programmed spaces, and additional maintenance requirements for the facility.

5.3.8 HVAC Controls

A direct digital control (DDC) system will be provided for all HVAC equipment and systems. The system will include field panels wired to a PC control front end and will be capable of stand-alone operation. DDC controls shall be BACnet per the Campus Standards and Design Guidelines.

The PC front end will have full color graphics, simulation of all systems, capable of monitoring, remote set point adjustment of all devices, trending, lighting control and other functions as required. The system will be linked to the Campus energy management and control system.

All control valves and motorized dampers will have DDC operators to be controlled and monitored by the DDC control system.

5.3.9 Testing, Adjusting and Balancing and Commissioning

All testing and balancing of HVAC systems will be by an independent test and balance company hired by the General Contractor or directly by the University, as agreed during the design phases of the project. Air systems will have manual dampers where required for balancing.

Hydronic systems will have manual balancing valves where required for balancing, together with Pete's plugs or similar devices for measurement of temperatures and pressures at coils, pumps, control valves and other strategic locations.

All systems shall be commissioned to the Campus protocol. Additional commissioning to qualify for the LEED® EA3 credit should be priced as a separate line item.

5.4 PLUMBING AND FIRE PROTECTION SYSTEMS

5.4.1 Codes and Standards UC Riverside Campus Standards and Design Guide

- California Building Code, 2007
- California Plumbing Code, 2007
- California Fire Code, 2007
- · NFPA Codes, current editions, as applicable

5.4.2 General

Site Utilities: Construction and renovation of the buildings will require existing site plumbing utilities to be relocated or removed. Phasing of this work and provision of stub-outs for lateral connections to the new buildings will be coordinated with the Campus facilities and engineering personnel and the project civil engineering consultant. Disruption of existing Campus utilities for the new connections will be coordinated with Campus facilities personnel.

MEP (CONTINUED)

It is anticipated that existing site utility systems have sufficient capacities to support the estimated additional loads to be imposed by the new building as indicated on the Preliminary Utility Demand Form, but this will be verified during Schematic Design. Given the LEED® aspirations for the building it is envisioned that the use of low flow fixtures will reduce the water demand below the projections of the Utilities Demand Form.

Plumbing systems for the buildings include sanitary sewer and vent, roof drains and rainwater piping, domestic cold water and hot water, and natural gas supply piping inside the buildings.

Plumbing utility piping beyond 5 feet outside the building will be designed by the project civil engineering consultant.

The buildings will be fully protected by an automatic wet-pipe fire sprinkler and alarm system.

5.4.3 Plumbing Fixtures

Fixtures will be provided as required by the Room Data Sheets and will be selected to comply with Campus Standards and Design Guidelines.

Plumbing fixtures will be commercial quality with water conserving technologies to meet the LEED® aspirations of the project.

Water closets shall be dual flush 0.8/1.6 gallon per flush and urinals shall be 1/8 gallon per flush or waterless urinals upon prior approval of UCR facilities staff. Fixtures will be wall hung. Metering faucets with 0.5 gpm flow control aerators and other restroom appliances/dimensions will fully comply with ADA and other relevant regulations. It is estimated that all non irrigation LEED ® Water Efficiency credits could be achieved using these low flow fixtures.

5.4.4 Domestic Cold Water

Domestic cold water will be supplied to the buildings from the campus utility main, with an approved water meter installed inside the mechanical room (in the Barn) and reduced pressure backflow preventer.

Maximum pressure in each building will not exceed 80 psi. A pressure reducing station will be provided if necessary.

Piping will be Type L copper, designed in accordance with Campus Standards and Design Guidelines and industry standard sizing methodology to meet the building demands.

Cold water piping will be insulated in unheated attic spaces and where exposed to potential freezing conditions

Shut-off valves will be provided in accessible locations to allow for isolation of each toilet room or small groups of fixtures to facilitate maintenance and future modification.

5.4.5 Industrial (Non-potable) Water

Industrial water for make-up to HVAC systems, and/or other non-potable uses, will be supplied from the potable domestic cold water supply system with a separate reduced pressure backflow preventer.

Piping will be Type L copper, designed in accordance with the Campus Standards and Design Guidelines and industry standard sizing methodology to meet the calculated demands. Piping will be insulated in unheated attic spaces and where exposed to freezing conditions.

Shut-off valves will be provided in accessible locations to allow for isolation of each piece of equipment to facilitate maintenance and future modification.

5.4.6 Domestic Hot Water

Base building design for generation of domestic hot water will be to utilize gas fired water heaters. An in-line circulation pump will be included to circulate hot water through the heating systems as necessary to maintain temperature in the distribution piping.

Hot water piping will be Type L copper, designed in accordance with Campus Standards and Design Guidelines and industry standard sizing methodology to meet the building demands.

Hot water supply and circulation/return piping will be insulated.

5.4.7 Sanitary Waste and Vent

Sanitary waste and vent system will be connected to the Campus sanitary sewer as coordinated with the project civil engineer.

Piping will be cast iron, designed in accordance with Campus Standards and Design Guidelines and industry standard sizing methodology to meet the building demands.

MEP (CONTINUED)

5.4.8 Roof Drains

Roof drains, overflow drains, conductors, and/or down spouts will be provided and connected into the Campus storm sewer as coordinated with the project civil engineer. The systems shall be designed so that stormwater is not diverted directly to Campus sidewalks and/or exterior courtyard paved surfaces. Detention of stormwater should occur in bioswales or other planted areas, not into or onto paved surfaces used by pedestrians, bicycles and/or "customers" of The Barn Group.

Overflow provisions will be by roof drains with a separate piping system or scuppers, as determined during Schematic Design phase.

Piping will be cast iron, designed in accordance with Campus Standards and Design Guidelines and industry standard sizing methodology to meet the building requirements.

5.4.9 Fire Protection Systems

Based on the findings of the Historic Resources Assessment, the project will be brought up to current Fire Code per the discussions with the Campus Fire Marshall at Workshop #1.

The buildings will be fully protected by an automatic fire sprinkler and alarm systems designed in accordance with NFPA 13, and the Campus Standards. Occupancy Hazard classification(s) will be from NFPA 13, as approved by the Fire Marshal. Special extinguishing systems will be provided if required to protect sensitive electronic equipment.

System control valve and fire department connection will be located outside the building.

5.5 ELECTRICAL

5.5.1 Codes and Regulations

All electrical work shall comply with the following codes and standards:

- National Electrical Code (2008 Edition)
- National Fire Protection Association (NFPA 72)
- California Energy Conservation Code, Title 24 CCR
- Illumination Engineering Society of North America (IES)
- Local Utility Company Rules and Regulations
- Local Fire Authority

5.5.2 Electrical Design Criteria

The buildings have a combined area of approximately 19,000 square feet. Based on a preliminary approximation of 10VA/sf for Cottage, 22VA/sf for the Kitchen Addition & 10VA/sf for the remaining space within The Barn, 12VA/sf for the Barn Stable, 12VA/sf for KUCR, and 16VA/sf for the Barn Theater, the total VA needed for the entire complex equals approximately 350kVA.

TDE recommends a 500kVA, 12kV-480/277V, pad mounted transformer be provided to supply power to the buildings. The main incoming service will be sized at 600A at 480/277V, 3-phase, 4-wire. The pad mounted transformer should be located near the main electrical room (within the Barn) in order to reduce conduit runs and related costs.

5.5.2 Building Power Distribution Systems

In addition to the main electrical room noted above,

each building should also have dedicated electrical closets to house electrical panels and any 480-208/120V, 3-phase, dry-type transformers, as needed.

The 480/277V incoming service shall be used to provide power to motor loads rated 1HP or higher and all lighting loads. In order to supply motor loads rated less than 3/4HP, and other receptacle loads, an indoor rated dry-type transformer will be located in the main electrical room.

The exact number of panels will be determined once the final floor layout is decided.

UCR specific requirements such as flush floor receptacles shall be provided for all potential meeting and conference rooms.

5.5.3 Grounding System

Grounding system will be installed per NEC, section 250. A central grounding system will be provided for the main service. All grounded busses from switchboard, transformers, and panel boards will be connected at a central grounds bus in the electrical room.

5.5.4 Load management

In order to reduce power demand in the building TDE recommends using energy efficient lighting fixtures integrated with occupancy sensors and photocells will help reduce loads in the building even further. TDE also recommends the use of Energy Star rated appliances (where available) for the kitchen.

MEP (CONTINUED)

5.5.5 Emergency Power

Emergency power shall be provided via an emergency generator to support The Barn Group in the case of an emergency In order to provide lighting for path of egress, all emergency fixtures will be connected to the generator, which will power the fixtures in case of a power outage. The generator will also support critical loads within the Kitchen, as identified by the Campus.

5.5.6 Lighting

5.5.6.1 Lighting Level

Lighting system level will be designed in accordance with Illuminating Engineering Society (IES) recommendations, California Code of Regulations (CCR), and Title 24. The following chart will be adopted as reference:

Type of Area	Recommended Footcandle Level at WorkStation*
Support Spaces	5-10
Meeting/Conference rooms.	40
Dining Areas	50-60
Work circulation areas, surrounding work stations, bathrooms, work areas where critical visual tasks are not performed	20-30
Offices	30-50

LIGHTING LEVEL GUIDELINES

*where general lighting levels fall below UCR standards supplementary task lighting shall be used.

5.5.6.2 Lighting Control

All lighting will have means of automatic shut-off to comply with Title 24 except where this may create a hazard in areas such as the Kitchen Addition. This will be achieved through the use of occupancy sensors and lighting control panels. A lighting control panel will be located in the electrical room. Lighting in open areas, corridors, and exterior lighting will be controlled by the lighting control panels. Individual offices, restrooms, electrical and mechanical rooms will be controlled by occupancy sensors. All areas greater than 100 square feet will have bi-level switching to comply with Title 24.

Areas greater than 250 square feet with areas fifteen feet or more away from windows will have daylighting control zones to comply with Title 24. The zones will be controlled by ceiling mounted photosensors and will be capable of dimming the light sin the associated zone. The daylighting zones will also have bi-level switching to allow 50% of the lights to be switched off.

5.5.7 Fire Alarm System

An addressable fire alarm system complying with the Campus Standards and Design Guidelines will be provided and consist of the following:

- A. A main fire alarm control panel located in the fire alarm control room, if possible.
- B. Heat detectors will be installed in the main electrical room, elevator machine room and kitchen area. Smoke detectors will be installed in accordance with code.

- C. Audio-visual alarm stations will be provided along all egress routes, toilet areas, lobbies and other areas of assembly.
- D. Pull station will be provided along egress routes.

The fire alarm system will initiate mechanical air supply system shut-down in the event of smoke detection.

The fire alarm system will be linked with elevators for return to a predetermined floor and mechanical air supply system for shut-down in the event of fire alarm signal.

The fire alarm system will also be linked to the sprinkler flow switches and valve monitors.

The fire alarm system will be tied to the campus main fire alarm system through telephone interface. All devices shall be addressable.

5.5.8 Telecommunication System

Electrical shall run all necessary conduits for telecommunications installation. The telecom infrastructure for the building shall be designed per the telecommunications consultant.

LEED Checklist

BUIL DING COURSE		COUNCIL C	LEED 2009 for New Construction and Major Renovation Project Checklist								
			UC River 4.9.10	side Barn							
22	2	2	Sustai	nable Sites	Possible Points:	26					
Y	N	?									
Y			Prereq 1	Construction Activity Pollution Prevention							
1			Credit 1	Site Selection		1					
5			Credit 2	Development Density and Community Connectivity		5					
	1		Credit 3	Brownfield Redevelopment		1					
6			Credit 4.1	Alternative Transportation—Public Transportation Access		6					
1			Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms		1					
3			Credit 4.3	Alternative Transportation-Low-Emitting and Fuel-Efficient Vehicles		3					
2			Credit 4.4	Alternative Transportation—Parking Capacity		2					
	1		Credit 5.1	Site Development—Protect or Restore Habitat		1					
		1	Credit 5.2	Site Development—Maximize Open Space		1					
1			Credit 6.1	Stormwater Design—Quantity Control		1					
1			Credit 6.2	Stormwater Design—Quality Control		1					
1			Credit 7.1	Heat Island Effect—Non-roof		1					
1			Credit 7.2	Heat Island Effect-Roof		1					
		1	Credit 8	Light Pollution Reduction		1					
			-								
4	0	6	Water	Efficiency	Possible Points:	10					
Y	1		Prereq 1	Water Use Reduction–20% Reduction							
2		2	Credit 1	Water Efficient Landscaping		2 to 4					
			1	x Reduce by 50%		2					
				No Potable Water Use or Irrigation		4					
		2	Credit 2	Innovative Wastewater Technologies		2					
2		2	Credit 3	Water Use Reduction		2 to 4					
			-	X Reduce by 30%		2					
				Reduce by 35%		3					
				Reduce by 40%		4					

LEED Checklist

12 9 14 Energy	y and Atmosphere Possible Poi	nts: 35
V Prereg 1	Fundamental Commissioning of Building Energy Systems	
Y Prereg 2	Minimum Energy Performance	
Y Prereg 3	Fundamental Refrigerant Management	
10 9 Credit 1	Ontimize Energy Performance	1 to 19
	The second secon	1
	x Improve by 14% for New Buildings or 10% for Existing Building Renovations	2
	x Improve by 16% for New Buildings or 12% for Existing Building Renovations	3
	x Improve by 18% for New Buildings or 14% for Existing Building Renovations	4
	x Improve by 20% for New Buildings or 16% for Existing Building Renovations	5
	x Improve by 22% for New Buildings or 18% for Existing Building Renovations	6
	x Improve by 24% for New Buildings or 20% for Existing Building Renovations	7
	x Improve by 26% for New Buildings or 22% for Existing Building Renovations	8
	x Improve by 28% for New Buildings or 24% for Existing Building Renovations	9
	X Improve by 30% for New Buildings or 26% for Existing Building Renovations	10
	Improve by 32% for New Buildings or 28% for Existing Building Renovations	11
	Improve by 34% for New Buildings or 30% for Existing Building Renovations	12
	Improve by 36% for New Buildings or 32% for Existing Building Renovations	13
	Improve by 38% for New Buildings or 34% for Existing Building Renovations	14
	Improve by 40% for New Buildings or 36% for Existing Building Renovations	15
	Improve by 42% for New Buildings or 38% for Existing Building Renovations	16
	Improve by 44% for New Buildings or 40% for Existing Building Renovations	17
	Improve by 46% for New Buildings or 42% for Existing Building Renovations	18
	Improve by 48%+ for New Buildings or 44%+ for Existing Building Renovations	19
7 Credit 2	On-Site Renewable Energy	1 to 7
	1% Renewable Energy	1
	3% Renewable Energy	2
	5% Renewable Energy	3
	7% Renewable Energy	4
	9% Renewable Energy	5
	11% Renewable Energy	6
	13% Renewable Energy	7
2 Credit 3	Enhanced Commissioning	2
2 Credit 4	Enhanced Refrigerant Management	2
3 Credit 5	Measurement and Verification	3
2 Credit 6	Green Power	2

LEED Checklist

6	2	6	Materi	als and Resources	Possible Points:	14
Y			Prereq 1	Storage and Collection of Recyclables		
1		2	Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof		1 to 3
				X Reuse 55%		1
				Reuse 75%		2
			_	Reuse 95%		3
		1	Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements		1
2			Credit 2	Construction Waste Management		1 to 2
				50% Recycled or Salvaged		1
			_	X 75% Recycled or Salvaged		2
	2		Credit 3	Materials Reuse		1 to 2
				Reuse 5%		1
				Reuse 10%		2
1		1	Credit 4	Recycled Content		1 to 2
				X 10% of Content		1
				20% of Content		2
1		1	Credit 5	Regional Materials		1 to 2
				X 10% of Materials		1
			_	20% of Materials		2
		1	Credit 6	Rapidly Renewable Materials		1
1			Credit 7	Certified Wood		1
						1
•						I
12	1	2	Indoor	Environmental Quality	Possible Points:	15
12	1	2	Indoor	Environmental Quality	Possible Points:	' 15
12 Y	1	2	Indoor Prereq 1	Environmental Quality Minimum Indoor Air Quality Performance	Possible Points:	' 15
12 Y Y	1	2	Indoor Prereq 1 Prereq 2	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control	Possible Points:	- 15
12 Y Y	1	2	Prereq 1 Prereq 2 Credit 1	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring	Possible Points:	' 15 1
12 Y Y 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation	Possible Points:	15 1 1
12 Y Y 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan–During Construction	Possible Points:	15 1 1
12 Y Y 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan–During Construction Construction IAQ Management Plan–Before Occupancy	Possible Points:	15 1 1 1
12 Y Y 1 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan–During Construction Construction IAQ Management Plan–Before Occupancy Low-Emitting Materials–Adhesives and Sealants	Possible Points:	15 1 1 1 1
12 Y Y 1 1 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings	Possible Points:	15 1 1 1 1 1
12 Y Y 1 1 1 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan–During Construction Construction IAQ Management Plan–Before Occupancy Low-Emitting Materials–Adhesives and Sealants Low-Emitting Materials–Plants and Coatings Low-Emitting Materials–Flooring Systems	Possible Points:	1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.3 Credit 4.4 Credit 4.4	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products	Possible Points:	1 1 1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.3 Credit 4.3 Credit 4.4 Credit 5	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Plants and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Construction	Possible Points:	1 1 1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1 1		2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting	Possible Points:	1 1 1 1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1	1	2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort	Possible Points:	1 1 1 1 1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1 1 1 1 1 1		2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2 Credit 7.1	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort Thermal Comfort—Design Thermal Comfort Varifiber Varifiber Indoor	Possible Points:	1 1 1 1 1 1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1 1 1 1 1 1		2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.1 Credit 7.1 Credit 7.2 Credit 7.2	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort Thermal Comfort—Design Thermal Comfort—Verification Davidish and Visua Davidett	Possible Points:	1 1 1 1 1 1 1 1 1 1 1 1 1
12 Y Y 1 1 1 1 1 1 1 1 1 1 1 1 1		2	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2 Credit 7.1 Credit 7.2 Credit 8.1	Environmental Quality Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort Thermal Comfort—Design Thermal Comfort—Verification Daylight and Views—Daylight	Possible Points:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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LEED Checklist

3	0	3	Innova	tion and Design Process	Possible Points:	6
			_			
		1	Credit 1.1	Innovation in Design: Green cleaning		1
		1	Credit 1.2	Innovation in Design: IPM		1
		1	Credit 1.3	Innovation in Design: Double Green power		1
1			Credit 1.4	Innovation in Design: Green Building as an Educational Tool		1
1			Credit 1.5	Innovation in Design: Sustainability in the Curriculum, Eco-Literacy		1
1			Credit 2	LEED Accredited Professional		1
			-			
3	0	1	Region	al Priority Credits	Possible Points:	4
1			Credit 1.1	Regional Priority: SS 4.1 Public Transit Access		1
1			Credit 1.2	Regional Priority: SS 7.1 Heat Island, Non-Roof		1
		1	Credit 1.3	Regional Priority: WE 3 Water Use Reduction		1
1			Credit 1.4	Regional Priority: EQ 8.1 Daylight		1
			-4			
62	14	34	Total		Possible Points:	110
			-	Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to	o 110	

LEED Matrix

UCR Barn	Project, East Car	npus					Pre	pared by Simon & Associates, Inc.
LEED 2009 Gr	een Building Design & Co	onstruction Priorities Matrix (NC)					1	April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	МАҮВЕ	Q	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
Sustainable Site	es							
SS Prereq. I	Construction Activity Pollution Prevention	Create and implement an Erosion and Sedimentation Control (ESC) Plan for all construction activities associated with the project. The ESC Plan shall conform to the erosion and sedimentation requirements of the 2003 EPA Construction General Permit OR local erosion and sedimentation control standards and codes, whichever is more stringent. The Plan shall describe the measures implemented to accomplish the following objectives: • Prevent loss of soil during construction by stormwater runoff and/or wind erosion, including protecting topsoil by stockpiling for reuse. • Prevent sedimentation of storm sewer or receiving streams. • Prevent polluting the air with dust and particulate matter.	x			с	Civil Engineer	
SS 1.0	Site Selection	Do not develop buildings, hardscape, roads or parking areas on portions of sites that meet any one of the following criteria: • Prime farmland as defined by the United States Department of Agriculture in the United States Code of Federal Regulations, Title 7,Volume 6, Parts 400 to 699, Section 657.5 (citation 7CFR657.5) • Previously undeveloped land whose elevation is lower than 5 feet above the elevation of the 100- year flood as defined by FEMA (Federal Emergency Management Agency) • Land that is specifically identified as habitat for any species on Federal or State threatened or endangered lists • Within 100 feet of any wetlands as defined by United States Code of Federal Regulations 40 CFR, Parts 230-233 and Part 22, and isolated wetlands or areas of special concern identified by state or local rule, OR within setback distances from wetlands prescribed in state or local regulations, as defined by local or state rule or law, whichever is more stringent. • Previously undeveloped land that is within 50 feet of a water body, defined as seas, lakes, rivers, streams and tributaries which support or could support fish, recreation or industrial use, consistent with the terminology of the Clean Water Act • Land which prior to acquisition for the project was public parkland, unless land of equal or greater value as parkland is accepted in trade by the public landowner (Park Authority projects are exempt).	1			D	Architect	CPP point.
SS 2	Development Density and Community Connectivity	OPTION 1 - DEVELOPMENT DENSITY: Construct or renovate building on a previously developed site AND in a community with a minimum density of 60,000 square feet per acre net (Note: density calculation must include the area of the project being built and is based on a typical two-story downtown development). OR OPTION 2 - COMMUNITY CONNECTIVITY: Construct or renovate building on a previously developed site AND within 1/2 mile of a residential zone or neighborhood with an average density of 10 units per acre net AND within 1/2 mile of a residential zone or neighborhood with an average density of 10 units per acre net AND within 1/2 mile of a residential zone or neighborhood with an average density of 10 units per acre net AND with nedestrian access between the building and the services. Basic Services include, but are not limited to: 1) Bank; 2) Place of Worship; 3) Convenience Grocery; 4) Day Care; 5) Cleaners; 6) Fire Station; 7) Hair Care; 8) Hardware; 9) Laundry; 10) Library; 11) Medical/Dental; 12) Senior Care Facility; 13) Park; 14) Pharmacy; 15) Post Office; 10) Restaurant; 17) School; 18) Supermarket; 19) Commercial Office; 20) Community Center; 21) Fitness Center; 22) Museum. Proximity is determined by drawing a 1/2 mile radius around the main building entrance on a site map and counting the services within that radius.	5			D	Architect	



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LEED Matrix

UCR Barn Project, East Campus Prepared by Simon & Associates, Inc.								
LEED 2009 Gr	een Building Design 8	Construction Priorities Matrix (NC)						April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	ON	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
SS 3.0	Brownfield Redevelopment	OPTION 1 - Develop on a site documented as contaminated (by means of an ASTM E1903-97 Phase II Environmental Site Assessment or a local Voluntary Cleanup Program) OR OPTION 2 - Develop on a site defined as a brownfield by a local, state or federal government agency.			I	D	Owner	Is there abatement?
SS 4.1	Alternative Transportation	Public Transportation Access OPTION 1: Rail Station Proximity - Locate project within 1/2 mile walking distance of an existing—or planned and funded—commuter rail, light rail or subway station (measured from the building entrance). OR OPTION 2: Bus Stop Proximity - Locate project within 1/4 mile walking distance of one or more stops for two or more public, campus, or private bus lines usable by building occupants (measured from the building entrance).	6			D	Architect	CPP point.
SS 4.2		Bicycle Storage & Changing Rooms: CASE I For commercial or institutional buildings provide secure bicycle racks and/or storage (within 200 yards of a building entrance) for 5% or more of all building users (calculated on average for the year), AND, provide shower and changing facilities in the building, or within 200 yards of a building entrance, for 0.5% of Full-Time Equivalent (FTE) occupants. CASE 2 For residential buildings, provide covered storage facilities for securing bicycles for 15% or more of building occupants in lieu of changing/shower facilities.	I			D	Architect	CPP point.
SS 4.3		Low Emitting & Fuel Efficient Vehicles: OPTION 1 Provide preferred parking for low-emitting and fuel-efficient vehicles for 5% of the total vehicle parking capacity of the site. Providing a discounted parking rate is an acceptable substitute for preferred parking for low-emitting/fuel-efficient vehicles. To establish a meaningful incentive in all potential markets, the parking rate must be discounted at least 20%. The discounted rate must be equal to 5% of the vehicle parking capacity, publicly posted at the entrance of the parking area and available for a minimum of 2 years. OR OPTION 2 Install alternative-fuel refueling stations for 3% of the total vehicle parking capacity of the site (liquid or gaseous fueling facilities must be separately ventilated or located outdoors). OR OPTION 3: Provide low-emitting and fuel-efficient vehicles for 3% of full-time equivalent (FTE) occupants. Provide preferred parking for these vehicles. OR OPTION 4: Provide building occupants access to a low-emitting or fuel efficient vehicle- sharing program.	3			D	Architect	Option 1. Preferred parking spaces in lot 4 to be determined.



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LEED Matrix

UCR Barr	Project, East C	ampus					Pre	oared by Simon & Associates, Inc.
LEED 2009 Gr	een Building Design &	Construction Priorities Matrix (NC)	1	1		-	1	April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	NO	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
SS 4.4		 Parking Capacity: OPTION 1 — NON-RESIDENTIAL Size parking capacity to meet but not exceed minimum local zoning requirements AND provide preferred parking for carpools or vanpools for 5% of the total parking spaces. OR OPTION 2 — NON-RESIDENTIAL For projects that provide parking for less than 3% of FTE building occupants: Provide preferred parking for carpools or vanpools, marked as such, for 3% of total provided parking spaces. Providing a discounted parking rate (20% for 2 years) is also acceptable. OR OPTION 3 - RESIDENTIAL Size parking capacity to not exceed minimum local zoning requirements, AND, provide infrastructure and support programs to facilitate shared vehicle usage such as carpool drop-off areas, designated parking for vanpools, or car-share services, ride boards, and shuttle services to mass transit. OR OPTION 4 — ALL Provide no new parking. OR OPTION 5- MIXED USE (Residential with Commercial) • For mixed-use buildings with less than 10% commercial area, the entire building should be considered residential and adhere to the residential requirements in Option 3. For mixed use buildings with greater than 10% commercial area, the commercial space is to adhere to Non-Residential requirements, while the residential component is to adhere to residential requirements. Note - This option is for a mixed use building that is residential + commercial (or retail) as opposed to office + retail (non-residential building) 	2			D	Architect	
SS 5.1	Site Development	 Protect or Restore Habitat: OPTION 1: On greenfield sites, limit all site disturbance to 40 feet beyond the building perimeter, 10 feet beyond surface walkways, patios, surface parking and utilities less than 12 inches in diameter; 15 feet beyond primary roadway curbs and main utility branch trenches, and 25 feet beyond constructed areas with permeable surfaces (such as pervious paving areas, stormwater detention facilities and playing fields) that require additional staging areas in order to limit compaction in the constructed area; OR OPTION 2: On previously developed or graded sites, restore or protect a minimum of 50% of the site area (excluding the building footprint) or 20% of the total site area (including the building footprint), whichever is greater, with native or adapted vegetation. (Native/adapted plants are plants indigenous to a locality or cultivars of native plants that are adapted to the local climate and are not considered invasive species or noxious weeds.) Projects earning SS credit 2 and using vegetated roof surfaces may apply the vegetated roof surface to this calculation if the plants meet the definition of native/adapted. 			1	с	Contractor or Landscape Architect	



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LEED Matrix

UCR Barn Project, East Campus Prepared by Simon & Associates, Inc.								
LEED 2009 Green Building Design & Construction Priorities Matrix (NC)								April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	Q	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
SS 5.2		Maximize Open Space: OPTION I - Sites with Local Zoning Open Space Requirements Reduce the development footprint (defined as the total area of the building footprint, hardscape, access roads and parking) and/or provide vegetated open space within the project boundary to exceed the local zoning's open space requirement for the site by 25%. OR OPTION 2 - Sites with No Local Zoning Requirements (e.g., some university campuses, military bases) Provide vegetated open space area adjacent to the building that is equal to the building footprint. OR OPTION 3 - Sites with Zoning Ordinances but No Open Space Requirements Provide vegetated open space equal to 20% of the project's site area. ALL OPTIONS: • For projects located in urban areas that earn SS credit 2, vegetated roof areas can contribute to credit compliance. • For projects located in urban areas that earn SS Credit 2, pedestrian oriented hardscape areas can contribute to credit compliance. For such projects, a minimum of 25% of the open space counted must be vegetated. • Wetlands or naturally designed ponds may count as open space if the side slope gradients average 1:4 (vertical : horizontal) or less and are vegetated.		1		D	Architect	CPP point. Calculations need to be studied.
SS 6.1	Stormwater Design	Quantity Control: CASE 1: IF EXISTING IMPERVIOUSNESS IS LESS THAN OR EQUAL TO 50% Option 1 - Implement a stormwater management plan that prevents the post-development peak discharge rate and quantity from exceeding the pre-development peak discharge rate and quantity for the one- and two-year 24-hour design storms. OR Option 2 - Implement a stormwater management plan that protects receiving stream channels from excessive erosion. The stormwater management plan must include a stream channel protection strategy and quantity control strategies. CASE 2: IF THE EXISTING IMPERVIOUSNESS IS GREATER THAN 50% Implement a stormwater management plan that results in a 25% decrease in the volume of stormwater runoff from the two-year 24-hour design storm.	1			D	Civil Engineer	Permeable paving (interlocking pavers for onsite filtration), bioswales, rain gardens. Rainwater collection will be considered.
SS 6.2		Quality Control: Implement a stormwater management plan that reduces impervious cover, promotes infiltration, and captures and treats the stormwater runoff from 90% of the average annual rainfall using acceptable best management practices (BMPs). BMPs used to treat runoff must be capable of removing 80% of the average annual post development total suspended solids (TSS) load based on existing monitoring reports. BMPs are considered to meet these criteria if (1) they are designed in accordance with standards and specifications from a state or local program that has adopted these performance standards, OR (2) there exists in-field performance monitoring data demonstrating compliance with the criteria. Data must conform to accepted protocol (e.g., Technology Acceptance Reciprocity Partnership [TARP], Washington State Department of Ecology) for BMP monitoring.	I			D	Civil Engineer	Bioswales.



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LEED Matrix

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LEED 2009 Green Building Design & Construction Priorities Matrix (NC)								April 9, 2010
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SS 7.1	Heat Island Effect	 Non-Roof: OPTION 1: Use any combination of the following strategies for 50% of the site hardscape (including roads, sidewalks, courtyards and parking lots): Provide shade from existing tree canopy or within five years of landscape installation; landscaping (trees) must be in place at the time of certification application. Provide shade from structures fully covered by solar photovoltaic panels. Provide shade from architectural devices or structures that have a solar reflectance index (SRI2) of at least 29. Have paving materials with an SRI of at least 20% pervious). OR OPTION 2 Place a minimum of 50% of parking spaces under cover (defined as under ground, under deck, under roof, or under a building). Any roof used to shade or cover parking must have an SRI of at least 29, be a vegetated green roof or be covered by solar panels that produce energy used to offset some nonrewable resource use. 	1			c	Architect or Landscape Architect	Hardscape will be durable and light- colored. Permeable paving.
SS 7.2		Roof: OPTION 1: Use roofing materials having a Solar Reflectance Index (SRI) equal to or greater than the values in the table below for a minimum of 75% of the roof surface. If more than 75% of the roof area is covered with the SRI material, the SRI value may be lower than the required value if the resulting area-weighted equivalent SRI performance is at least as high as having the required value on 75% of the area.OR OPTION 2: Install a "green" (vegetated) roof for at least 50% of the roof area, OR OPTION 3: Install high albedo and vegetated roof surfaces that, in combination, meet the following criteria: (Area of SRI Roof/0.75) + (Area of vegetated roof /0.5) <= Total Roof Area Table: Roof Type Slope Low-Sloped Roof $\leq 2:12 = SRI 78$ Steep-Sloped Roof $> 2:12 = SRI 29$	I			D	Architect, Landscape Architect, Green Roof Consultant	Adoption of cool roof standards is a goal of the UCR Sustainability Plan.
SS 8.0	Light Pollution Reduction	FOR INTERIOR LIGHTING: Project teams must comply with 1 of the 2 options for interior lighting AND the requirement for exterior lighting. OPTION 1: Reduce the input power (by automatic device of) all non-emergency interior luminaires with the direct line of sight to any opening in the envelope (translucent or transparent) by at least 50% between 11 PM and 5 AM. After hours override may be provided by a manual or occupant sensing device provided that the override last no more than 30 minutes. OR OPTION 2:All openings in the envelope (translucent or transparent), with a direct line of sight to any non-emergency lighting must have shielding (controlled/closed by automatic device for a resultant transmittance of less than 10% between 11 PM and 5 AM). AND FOR EXTERIOR LIGHTING: Light areas only as required for safety and comfort. Lighting power densities must not exceed ANSI/ASHRAE/IESNA Standard 90.1-2007 (with errata but without addenda) for the classified zone.		I		D	Electrical Engineer	Night sky protection policy is an intermediate goal of the UCR Sustainability Plan. Outdoor stage will need lighting weekly.



LEED Matrix

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		Classify the project under 1 of the following zones, as defined in IESNA RP-33, and follow all the requirements for that zone: LZ1 - Dark (Developed areas within national parks, state parks forest land and rural areas) LZ2 - Low (Areas predominantly consisting of; Residential zoning, Neighborhood business districts, Light industrial with limited nighttime use, Residential mixed use areas) LZ3 - Medium (All other areas not included in LZ1, LZ2 or LZ4 such as Commercial/Industrial, High- Density Residential) LZ4 - High (High activity commercial districts in major metropolitan areas. To be LZ4 the area must be so designated by the local jurisdiction) Please refer to the Rating System or Reference Guide for explanations of the zones.						
Water Efficienc	у							
WE prereq. I	Water Use Reduction: 20% Reduction	Employ strategies that in aggregate use 20% less water than the water use baseline calculated for the building (not including irrigation). Calculate the baseline according to the commercial and/r residential baselines outlined in the reference guide. Calculations are based on estimated occupant usage and must include only the following fixtures and fixture fittings (as applicable to the project scope): water closest, urinals, lavatory faucets, showers, kitchen sink faucets and pre-rinse spray valves. The following fixtures, fittings and appliances are outside the scope of the water use reduction calculation: • Commercial Steam Cookers • Commercial Dishwashers • Commercial Clothes Washers • Residential Clothes Washers • Standard and Compact Residential Dishwashers	x			D	Plumbing Engineer	
WE I	Water Efficient Landscaping	Option I: Reduce by 50% (2 points) - Reduce potable water consumption for irrigation by 50% from a calculated mid-summer baseline case. Reductions shall be attributed to any combination of the following items: • Plant species factor • Irrigation efficiency • Use of captured rainwater • Use of recycled wastewater • Use of water treated and conveyed by a public agency specifically for non-potable uses. Groundwater seepage that is pumped away from the immediate vicinity of building slabs and foundations may be used for landscape irrigation to meet the intent of this credit. However, the project team must demonstrate that doing so does not affect site stormwater management systems. Option 2: No Potable Use or No Irrigation (4 points) - Achieve Option I AND: Use only captured rainwater, recycled wastewater, recycled greywater, or water treated and conveyed by a public agency specifically for non-potable uses for irrigation. OR Install landscaping that does not require permanent irrigation systems. Temporary irrigation systems used for plant establishment are allowed only if removed within one year of installation.	2	2		D	Landscape Architect	UCR Sustainability Plan intermediate goal calls for 20% reduction in potable water used for irrigation. Weather-based controls, hydrozoning and xeriscape, turf area reduction are components of the UCR Sustainability Plan. Planting: drought-tolerant perennials and shrubs, sycamores, oaks, citrus and possibly other fruit or nut trees (avocado, walnut); drought-tolerant native or Mediterranean perennials and shrubs; vines (grape or kiwi as potential edible vines). Also, species related to historical landscape will be included with reliance on climate adaptive species.



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LEED Matrix

UCR Barn	UCR Barn Project, East Campus Prepared by Simon & Associates, Inc.								
LEED 2009 Gr	een Building Design & Co	onstruction Priorities Matrix (NC)						April 9, 2010	
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	ON	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS	
WE 2	Innovative Wastewater Technologies	OPTION 1: Reduce potable water use for building sewage conveyance by 50% through the use of water conserving fixtures (water closets, urinals) or non-potable water (captured rainwater, recycled greywater, and on-site or municipally treated wastewater). OR OPTION 2: Treat 50% of wastewater on-site to tertiary standards. Treated water must be infiltrated or used on-site.		2		D	Plumbing Engineer	Rainwater collection will be considered for both irrigation and toilet flushing. Greywater from kitchen addition is under consideration and is listed as an intermediate goal of the UCR Sustainability Plan.	
WE 3	Water Use Reduction	Employ strategies that in aggregate use less water than the water use baseline calculated for the building (not including irrigation). The minimum water savings percentage for each point threshold is as follows: 30% Reduction = 2 points 35% Reduction = 3 points 40% Reduction = 4 points Calculate the baseline according to the commercial and/or residential baselines outlined in the reference guide. Calculations are based on estimated occupant usage and must include only the following fixtures and fixtures fittings (as applicable to the project scope): water closets, urinals, lavatory faucets, showers, kitchen sink faucets and pre-rinse spray valves. The following fixtures, fittings and appliances are outside the scope of the water use reduction calculation: • Commercial Steam Cookers • Commercial Ishwashers • Residential Clothes Washers • Standard and Compact Residential Dishwashers	2	2		D	Plumbing Engineer	PP/ODC point. Mechanical Engineer narrative indicates 30%. Kitchen water use will have impact on savings. Specs: dual flush WCS 0.8/1.6 gpf, urinals shall be 1/8 gpf or waterless urinals, metering faucets with 0.5 gpm flow control aerators.	



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UCR Barn Project, East Campus Prepared by Simon & Associates, Inc.								
LEED 2009 Gr	een Building Design & C	onstruction Priorities Matrix (NC)						April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	OZ	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
Energy and Atr	nosphere							
EA Prereq. I	Fundamental Commissioning of the Building Energy Systems	The following commissioning process activities shall be completed by the commissioning team: 1) Designate an individual as the Commissioning Authority (CxA) to lead, review, and oversee the completion of the commissioning process activities. a) The CxA must have documented commissioning authority experience in at least two building projects. b) The individual serving as the CxA shall be independent of the project's design and construction teams, though they may be employees of the firms providing those services. The CxA may be a qualified employee or consultant of the Owner. c) The CxA must report results, findings and recommendations directly to the Owner. d) For projects smaller than 50,000 gross square feet, the CxA may include qualified persons on the design or construction teams who have the required experience. 2) The Owner shall document the Owner's Project Requirements (OPR). The design team shall develop the Basis of Design (BOD). The CxA must review these documents for clarity and completeness. The Owner and design team shall be responsible for updates to their respective documents. 3) Develop and incorporate commissioning requirements into the construction documents. 4) Develop and incorporate commissioning renort. COMMISSIONED SYSTEMS: Commissioning process activities shall be completed for the following energy related systems, at a minimum: 4 Heating, ventilating, air conditioning, and refrigeration (HVAC&R) systems (mechanical and passive) and associated controls 4 Lighting and daylighting controls 4 Domestic hot water systems 4 Renewable energy systems (PV, wind, solar etc.)	x			c	Commissioning Agent	Campus has Cx protocol.



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EA Prereq. 2	Minimum Energy Performance	OPTION I: Whole Building Energy Simulation - Demonstrate a 10% improvement in the proposed building performance rating for new buildings, or a 5% improvement in the proposed building performance rating for major renovations to existing building, compared with the baseline building performance rating. Calculate the baseline building performance rating according to the building performance rating method in Appendix G of ANSI/ASHRAE/IESNA/ Standard 90.1-2007 (with errata but without addenda) using a computer simulation model for the whole building project.	x			D	Mechanical Engineer	UC Mandate is 20%.		
		OR OPTION 2: Prescriptive Compliance Path: ASHRAE Advanced Energy Design Guide – Comply with the prescriptive measures of the ASHRAE Advanced Energy Design Guide appropriate to the project scope, outlined below. Project teams must comply with all applicable criteria as established in the Advanced Energy Design Guide for the climate zone in which the building in located. Path 1:ASHRAE Advanced Energy Design Guide for Small Office buildings 2004 – The building must be 1) less than 20,000 SF,AND 2) office Occupancy. Path 2:ASHRAE Advanced Energy Design Guide for Small Retail Buildings 2006 – The building must be 1) less than 20,000 SF,AND 2) retail occupancy. Path 3:ASHRAE Advanced Energy Design Guide for Small Warehouses and Self Storage Buildings 2008 – The building must be 1) less than 50,000 SF,AND 2) warehouse or self-storage occupancy.						Options for HVAC systems: Option I, Is a base case design of a single duct over head variable air volume (VAV) systems, with hot water reheat. Option 2 is a Dedicated Outside Air		
		OR OPTION 3: Prescriptive Compliance Path: Advanced Core Performance Guide – Comply with the prescriptive measures identified in the Advanced Building Core Performance Guide developed by the New Buildings institute. The building must 1) be less than 100,000 SF, 2) comply with Section 1: Design Process Strategies, and Section 2: Core Performance Requirements, 3) office, school, public assembly, and retail projects less than 100,000 SF must comply with Section 1 and Section 2 of the Core Performance Guide, OR 4) other project types less than 100,000 SF implement the basic requirements of the Core Performance Guide, AND 5) health care, warehouse and laboratory projects are ineligible for this path.						System with radiant floors. Option 3 is a Dedicated Outside Air System with active chilled beams.		
EA Prereq. 3	Fundamental Refrigerant Management	Zero use of CFC-based refrigerants in new building HVAC&R systems. When reusing existing base building HVAC equipment, complete a comprehensive CFC phase-out conversion prior to project completion. Phase-out plans extending beyond the project completion date will be considered on their merits.	×							



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EAI	Optimize Energy Performance	Select 1 of the 3 co using any of the 3 o Performance. OPTION 1 — WH Demonstrate a per the baseline buildin without addenda) u energy cost savings	mpliance path options described below. Pro ptions are assumed to be in compliance with OLE BUILDING ENERGY SIMULATION (I centage improvement in the proposed build g performance rating per ASHRAE/IESNA S using a computer simulation model for the v percentage for each point threshold is as for	oject teams documenting achievement th EA Prerequisite 2: Minimum Energy I–19 Points) ding performance rating compared with tandard 90.1-2007 (with errata but whole building project.The minimum ollows:	10		9	D	Mechanical and Electrical Engineer	For Projects in California, the USGBC may allow an equivalency of using T-24-2008 instead of ASHRAE- 2007 with the same thresholds as identified on the Table under Option 1. UC Mandate is 20% which would earn 5 points. There are central campus chilled water and steam
		% Energy Cost 3 New Buildings 12% 14% 16% 18% 20% 24% 26% 38% 30% 32% 34% 36% 38% 00% 42% 44% 46% 98% OR OPTION 2: Design Guide – OR OPTION 3: Core Performana Comply with the pi Performance™ Guide	Savings (minimum) Existing Building Renovations 8% 10% 12% 14% 16% 18% 20% 22% 24% 26% 28% 30% 32% 34% 36% 38% 40% 42% 44% Prescriptive Compliance Path: ASI Refer to EA p2 above. PRESCRIPTIVE COMPLIANCE PA' rec™ Guide (1-3 Points) rescriptive measures identified in the Advan ide developed by the New Buildings Institut	Points 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 HRAE Advanced Energy TH: Advanced Buildings™ Core teed Buildings™ Core te. Refer to EA p2 above.	10		9			Campus chilled water and steam utilities. A goal of the Sustainability plan is to strive for 30% efficiency, or 10 points. 10 points earned assuming an efficient building envelope with good glazing and insulation, efficient lighting with dimming and occupancy/daylight sensors, and radiant floor systems, we would expect at least 30% below T-24. Refer to Mechanical Narrative for potential strategies.



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EA 2	Renewable Energy	Use on-site renewable energy systems to offset building energy cost. Calculate project performance by expressing the energy produced by the renewable systems as a percentage of the building annual energy cost and use the table below to determine the number of points achieved. • Use the building annual energy cost calculated in EA Credit I or use the Department of Energy (DOE) Commercial Buildings Energy Consumption Survey (CBECS) database to determine the estimated electricity use. The minimum renewable energy percentage for each point threshold is as follows: Percentage Renewable Energy Points 1% 1 3% 2 5% 3 7% 4 9% 5 11% 6 13% 7		7		D	Electrical Engineer	PV installation for UCR Campus is currently being evaluated. From the Sustainability Action Plan: UC Policy is to obtain 20% of electricity form renewable sources by 2010. 10 Mw system-wide installation of local renewable power by 2014 is referred to in the UCR Sustainability Plan.	
EA 3	Enhanced Commissioning	Implement, or have a contract in place to implement, the following additional commissioning process activities in addition to the requirements of EA prerequisite 1 and in accordance with the LEED Reference Guide for Green Building Design and Construction, 2009 Edition: 1. Prior to the start of the construction documents phase, designate an independent Commissioning Authority (CxA) to lead, review, and oversee the completion of all commissioning process activities. 2. The CA shall conduct, at a minimum, one commissioning design review of the Owner's Project Requirements (OPR), Basis of Design (BOD), and design documents prior to mid-construction documents phase and back-check the review comments following design submission. 3. The CA shall review contractor submittals applicable to systems being commissioned for compliance with the OPR and BOD. This review must be concurrent with A/E reviews and submitted to the design team and the Owner. 4. Develop a systems manual that provides future operating staff the information needed to understand and optimally operate the commissioned systems. 5. Verify that the requirements for training operating personnel and building occupants are completed. 6. The CxA must be involved in reviewing the operation of the building with operations and maintenar		2		c	Commis.Agent	A goal of the UCR Sustainability Plan.	



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EA 4	Enhanced Refrigerant Management	OPTION 1: Do not use refrigerants. OR OPTION 2: Select refrigerants and HVAC&R that minimize or eliminate the emission of compounds that contribute to ozone depletion and global warming. The base building HVAC&R equipment shall comply with the following formula, which set a maximum threshold for the combined contributions to ozone depletion and global warming potential: LCGWP + LCODP × 10 ⁵ ≤ 100 Where: LCOUP = [ODPr x (Lr x Life +Mr) x Rc]/Life LCOUP: Lifecycle Ozone Depletion Potential (lb CFC 11/Ton-Year) LCGWP: Lifecycle Direct Global Warming Potential (lb CQ./Ton-Year) GWPr: Global Warming Potential of Refrigerant (0 to 12,000 lbCO./lbr) ODPr: Ozone Depletion Potential of Refrigerant (0 to 12,000 lbCO./lbr) DPr: Cozone Depletion Potential of Refrigerant (0 to 0.2 lb CFC 11/lbr) Lr: Refrigerant Leakage Rate (0.5% to 2.0%; default of 10% unless otherwise demonstrated) Mr: End-of-life Refrigerant Loss (2% to 10%; default of 10% unless otherwise demonstrated) Rc: Refrigerant Charge (0.5 to 5.0 lbs of refrigerant per ton of gross ARI rated cooling capacity) Life Equipment Life (10 years; default based on equipment type, unless otherwise demonstrated) For multiple types of equipment, a weighted average of all base building level HVAC&R equipment shall be applied using the following formula: [sum (LCGWP + LCODP x 105) x Qunit] / Qtotal ≤ 100 Where: Qunit = Gross ARI rated cooling capacity of an individual HVAC or refrigeration unit (Tons) Qtotal	2			D	Mechanical Engineer	PP point.	
EA 5	Measurement & Verification	 OPTION 1: Develop and implement a measurement and verification (M&V) plan consistent with Option D: Calibrated Simulation (Savings Estimation Method 2) as specified in the International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April, 2003. The M&V period must cover at least I year of post-construction occupancy. Provide a process for corrective action if the results of the M&V plan indicate that energy savings are not being achieved. OR OPTION 2: Develop and implement a measurement and verification (M&V) plan consistent with Option B: Energy Conservation Measure Isolation, as specified in the International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April, 2003. The M&V period must cover at least I year of post-construction occupancy. Provide a process for corrective action if the results of the M&V plan indicate that energy savings are not being achieved. 		3		D	Commissioning Agent or Mechanical Engineer	DDC (controls and monitoring) for HVAC system will be provided.	



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EA 6.0	Green Power	Engage in at least a 2-year renewable energy contract to provide at least 35% of the building's electricity from renewable sources, as defined by the Center for Resource Solutions' Green-e Energy product certification requirements. OPTION 1: DETERMINE THE BASELINE ELECTRICITY USE Use the annual electricity consumption from the results of EA Credit I. OR OPTION 2: ESTIMATE BASELINE ELECTRICITY USE Use the Department of Energy (DOE) Commercial Buildings Energy Consumption Survey (CBECS) database to determine the estimated electricity use. Note - All purchases of green power shall be based on the quantity of energy consumed, not the cost.		2		c	Owner		
Materials and R	esources								
MR Prereq.	Storage & Collection of Recyclables	Provide an easily-accessible dedicated area or for the collection of storage materials for recycling for the entire building. Materials must include at minimum paper, corrugated cardboard, glass, plastics and metals.	x			D	Architect	UCR has a recycling and waste management policy, which includes food waste composting and targets a 50% landfill diversion rate of 50% by 2008-9. Zero waste by 2020 is a long term goal.	
MR I.I	Building Reuse - Maintain Existing Walls, Floors, and Roof	Maintain at least 55% (based on surface area) of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing, excluding window assemblies and non-structural roofing material). Hazardous materials that are remediated as a part of the project scope shall be excluded from the calculation of the percent maintained. If the project includes an addition to an existing building, this credit is not applicable if the square footage of the addition is more than 2 times the square footage of the existing building. The minimum percentage building reuse for each point threshold is as follows: Building Reuse Points 55% I 75% 2 95% 3	I	2		c	Architect	Attempting more than 75%.: Walls and floors will be retained.	
MR 1.2	Building Reuse - Maintain Interior Nonstructural Elements	Using existing interior nonstructual elements (e.g., interior walls, doors, floor coverings and ceiling systems in at least 50% (by area) of the completed building, including additions. If the project includes an addition with square footage more than 2 times the square footage of the existing building, this credit is not applicable.		I		с	Architect	To be determined.	
MR 2	Construction Waste Management	Recycle and/or salvage at least 50% of non-hazardous construction and demolition debris. Develop and implement a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or comingled. Excavated soil and land-clearing debris do not contribute to this credit. Calculations can be done by weight or volume, but must be consistent throughout. The minimum percentage debris to be recycled or salvaged for each point threshold is as follows: Recycled or Salvaged Points 50% 1 75% 2	2			c	Contractor	ODC point. Baseline is only 50% (1 point). Recommend the project attempt 75% minimum. 75% is in the recommended level noted in the UCR Sustainability Plan.	



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MR 3	Materials Reuse: 5%	Use of salvaged, refurbished or reused materials, the sum of which constitutes at least 5% or 10%, based on cost, of the total value of materials on the project. Mechanical, electrical and plumbing components and specialty items such as elevators and equipment shall not be included in this calculation. Only include materials permanently installed in the project. Furniture may be included, providing it is included consistently in MR Credits 3–7. The minimum percentage materials reused for each point threshold is as follows: Reused Materials Points 5% 1 10% 2			2	с	Architect, Contractor		
MR 4	Recycled Content	Use materials with recycled content such that the sum of post-consumer recycled content plus one- half of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value. Mechanical, electrical and plumbing components and specialty items such as elevators shall not be included in this calculation. Only include materials permanently installed in the project. Furniture may be included, providing it is included consistently in MR Credits 3–7. Recycled content shall be defined in accordance with the International Organization of Standards document, ISO 14021—Environmental labels and declarations—Self-declared environmental claims (Type II environmental labeling). The minimum percentage materials recycled for each point threshold is as follows: Recycled Content 10% 1 20% 2	1	1		c	Architect, Contractor	Per baseline study, 2 points are listed as maybes, however, the design team considers I point achievable.	
MR 5	Regional Materials	Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20% (based on cost) of the total materials value. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value. Mechanical, electrical and plumbing components and specialty items such as elevators and equipment shall not be included in this calculation. Only include materials permanently installed in the project. Furniture may be included, providing it is included consistently in MR Credits 3–6. The minimum percentage regional materials for each point threshold is as follows: Regional Materials Points 10% 1 20% 2	1	1		c	Architect, Contractor	ODC point.	
MR 6	Rapidly Renewable Materials	Use rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from plants that are typically harvested within a 10-year or shorter cycle.		1		с	Architect, Contractor	This credit is difficult to achieve, but it would depend on interior finish selection.	



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MR 7	Certified Wood	Use a minimum of 50% (by cost) of wood-based materials and products, certified in accordance with the Forest Stewardship Council's (FSC) Principles and Criteria, for wood building components. The components include, but not limited to, structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes. Only include materials permanently installed in the project. Wood products purchased for temporary use on the project (e.g., formwork, bracing, scaffolding, sidewalk protection, and guard rails) may be included in the calculation at the project team's discretion. If any such materials are purchased for use on multiple projects, the applicant may include these materials for only one project, at its discretion. Furniture may be included, providing it is included consistently in MR Credits 3-7.	I			c	Architect, Contractor	Credit is easily achievable, considering the amount of wood in the project.	
Indoor Environ	mental Quality								
EQ Prereq. I	Minimum IAQ Performance	Mechanically Ventilated Spaces Meet the minimum requirements of Sections 4 through 7 of ASHRAE 62.1-2007, Ventilation for Acceptable Indoor Air Quality (with errata but without addenda). Mechanical ventilation systems must be designed using the Ventilation Rate Procedure or the applicable local code, whichever is more stringent. Naturally Ventilated Spaces Naturally ventilated buildings must comply with ASHRAE 62.1-2007, paragraph 5.1 (with errata but without addenda).	x			D	Mechanical Engineer		
EQ Prereq. 2	Environmental Tobacco Smoke (ETS) Control	 OPTION I Prohibit smoking in the building. Prohibit on-property smoking within 25 feet of entries, outdoor air intakes and operable windows. Provide signage to allow smoking in designated areas, prohibit smoking in designated areas or prohibit smoking on the entire property. OR OPTION 2 Prohibit smoking in the public areas of the building except in designated smoking areas. Public areas include all common areas that are part of the core and shell that are not tenant spaces. Smoking must be prohibited within 25 feet away from entries, outdoor air intakes and operable windows. Provide signage to allow smoking in designated areas, prohibit smoking in designated areas or prohibit smoking on the entire property. OR OPTION 3 (For residential buildings and hotels only). Prohibit smoking in all common areas of the building Locate any exterior designated smoking areas, including balconies where smoking is permitted, at 	×			D	Owner		
		least 25 feet away from entries, outdoor air intakes and operable windows opening to common areas. Provide signage to allow smoking in designated areas, prohibit smoking in designated areas or prohibit smoking on the entire property.							



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EQI	Outdoor Air Delivery Monitoring	Install permanent monitoring systems that provide feedback on ventilation system performance to ensure that ventilation systems maintain design minimum ventilation requirements. Configure all monitoring equipment to generate an alarm when the airflow values or carbon dioxide (CO2) levels vary by 10% or more from the design values via either a building automation system alarm to the building operator or a visual or audible alert to the building occupants. AND FOR MECHANICALLY VENTILATED SPACES • Monitor carbon dioxide concentrations within all densely occupied spaces (those with a design occupant density greater than or equal to 25 people per 1000 sq.ft.). CO2 monitoring locations shall be between 3 feet and 6 feet above the floor. • For each mechanical ventilation system, provide a direct outdoor airflow measurement device capable of measuring the minimum outdoor airflow rate with an accuracy of plus or minus 15% of the design minimum outdoor air rate, as defined by ASHRAE 62.1- 2007 (with errata but without addenda) for mechanical ventilation systems where 20% or more of the design supply airflow serves represent multiple spaces if the natural ventilation design uses passive stack(s) or other means to induce airflow through those spaces equally and simultaneously without intervention by building occupants. Note - The credit is specifically intended to address issues with ventilation in environments where a fixed amount of minimum outside air is provided through a specific incoming path. CO2 monitoring is required in densely occupied spaces, in addition to outdoor air intake flow measurement.		1		D	Mechanical	
EQ 2	Increased Ventilation	 FOR MECHANICALLY VENTILATED SPACES: Increase breathing zone outdoor air ventilation rates to all occupied spaces by at least 30% above the minimum rates required by ASHRAE Standard 62.1-2007 (with errata but without addenda) as determined by EQ Prerequisite 1. FOR NATURALLY VENTILATED SPACES: Design natural ventilation systems for occupied spaces to meet the recommendations set forth in the Carbon Trust "Good Practice Guide 237" [1998]. Determine that natural ventilation is an effective strategy for the project by following the flow diagram process shown in Figure 1.18 of the Chartered Institution of Building Services Engineers (CIBSE) "Applications Manual 10: 2005, Natural ventilation in non-domestic buildings." AND Option 1: Use diagrams and calculations to show that the design of the natural ventilation systems meets the recommendations set forth in the CIBSE Applications Manual 10: 2005, Natural ventilation in non-domestic buildings. OR Option 2: Use a macroscopic, multi-zone, analytic model to predict that room-by-room airflows will effectively naturally ventilate, defined as providing the minimum ventilation rates required by ASHRAE 62.1-2007 Chapter 6, for at least 90% of occupied spaces. 	1			D	Mechanical	Minimum ventilation rate is 15 cfm / occupant, but Mechanical Engineer narrative indicates LEED EQ rates will be used, therefore point is earned.



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EQ 3.1	Construction IAQ Management Plan	During Construction: Develop and implement an Indoor Air Quality (IAQ) Management Plan for the construction and pre- occupancy phases of the building as follows: • During construction meet or exceed the recommended Control Measures of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings under Construction, 2nd Edition 2007, ANSI/SMACNA 008-2008 (Chapter 3). • Protect stored on-site or installed absorptive materials from moisture damage. • If permanently installed air handlers are used during construction, filtration media with a Minimum Efficiency Reporting Value (MERV) of 8 must be used at each return air grille, as determined by ASHRAE 52.2-1999 (with errata but without addenda). Replace all filtration media immediately prior to occupancy.	1			c	Contractor	ODC point.
EQ 3.2	Construction IAQ Management Plan - Before Occupancy	Develop and (IAQ) management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy. OPTION 1: Flush Out After construction ends, prior to occupancy and with all interior finishes installed, install new filtration media and perform a building flush-out by supplying a total air volume of 14,000 cubic feet of outdoor air per square foot of floor area while maintaining an internal temperature of at least 60F and relative humidity no higher than 60%. OR If occupancy is desired prior to completion of the flush-out, the space may be occupied following delivery of minimum of 3,500 cubic feet of outdoor air per square foot of floor area. Once the space is occupied, it must be ventilated at a minimum rate of 0.30 cubic feet per minute (cfm) per square foot of outside air or the design minimum outside air rate determined in EQ prereq 1, whichever is greater. During each day of the flush-out period, ventilations must begin a minimum of 3 hours prior or occupancy and continue during occupancy. These conditions must be maintained until a total of 14,000 cubic feet per square foot of outside air rate space. OR Option 2: Air Testing Conduct baseline IAQ testing, after construction ends and prior to occupancy, using testing protocols consistent with the EPA Compendium of Methods for the Determination of Air Pollutants in Indoor Air and as additionally detailed in the LEED Reference Guide for Green Building Design and Construction, 2009 Edition.	I				Contractor	ODC point.
EQ 4.1	Low-Emitting Materials	Adhesives and Sealants: (Refer to Reference Guide for VOC limits) All adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the requirements applicable to the project scope: • Adhesives, Sealants and Sealant Primers must comply with South Coast Air Quality Management District (SCAQMD) Rule #1168.VOC limits are listed in reference guide and correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005. • Aerosol Adhesives must comply with Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000. Note - Use of VOC budgets is an alternative compliance path that allows for specialty applications for which there is no low VOC product option.	I			c	Architect, Contractor	ODC point.



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EQ 4.2	Low-Emitting Materials	Paints and Coatings: Paints and coatings used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the criteria defined in the LEED Reference Guide.	ı			с	Architect, Contractor	ODC point.
EQ 4.3	Low-Emitting Materials	Flooring Systems: OPTION 1: All flooring must comply with the following as applicable to the project scope: All carpet installed in the building interior shall meet the testing and product requirements of the Carpet and Rug Institute's Green Label Plus program. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program. This credit is only available to projects where carpet is installed. All carpet adhesive shall meet the requirements of EQ Credit 4.1:VOC limit of 50 g/L. AND All of the hard surface flooring must be certified as compliant with the FloorScore standard (current as of the date of this Rating System, or more stringent version) by an independent third- party. Flooring products covered by FloorScore include vinyl, linoleum, laminate flooring, wood flooring ceramic flooring, rubber flooring, wall base, and associated sundries. An alternative compliance path using FloorScore is acceptable for credit achievement according to the following stipulations. 100% of the non-carpet finished flooring must be FloorScore certified, and it must compr least 25% of the finished floor area. Potential examples of unfinished flooring include floors in mechanical rooms, electrical rooms, and elevator service rooms AND Concrete, wood, bamboo, and cork floor finishes such as sealer, stain and finish must meet the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004. VOC limits are listed in the Reference Guide. AND Tile setting adhesives and grout must meet South Coast Air Quality Management District (SCAQMD) Rule #1168.VOC limits are listed in the Reference Guide. OR OPTION 2: All flooring products will meet the testing and product requirements of the California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 A	1			c	Architect, Contractor	ODC point.
EQ 4.4	Low-Emitting Materials	Composite Wood & Agrifiber Products: Composite wood and agrifiber products used on the interior of the building (defined as inside of the weather proofing system), must contain no added urea formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied assemblies shall contain no added urea-formaldehyde resins. Composite wood and agrifiber products are defined as: particleboard, Medium Density fiberboard (MDF), plywood, wheatboard, strawboard, panel substrates and door cores. Materials considered fit-out, furniture, and equipment (FF&E) are not considered base building elements and are not included.	1			с	Architect, Contractor	Added urea formaldehyde is now banned in California, therefore point is attained. Sustainability plan calls for a comprehensive IAQ policy. This would mandate attaining this credit.



UCR Barn	Project, East Ca	npus					Pre	pared by Simon & Associates, Inc.
LEED 2009 Gr	een Building Design & C	onstruction Priorities Matrix (NC)						April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	МАҮВЕ	Q	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
EQ 5	Indoor Chemical and Pollutant Source Control	 Design to minimize and control pollutant entry into buildings and later cross-contamination of regularly occupied areas: Employ permanent entryway systems at least 10 feet long in the primary direction of travel to capture dirt and particulates from entering the building at all entryways that are directly connected to the outdoors. Acceptable entryway systems include permanently installed grates, grilles, or slotted systems that allow for cleaning underneath. Roll-out mats are only acceptable when maintained on a weekly basis by a contracted service organization. Qualifying entryways are those that serve as regular entry points into the core and shell of the building by building users. Where hazardous gases or chemicals may be present or used (including garages, housekeeping/laundry areas and copying/printing rooms), exhaust each space sufficiently to create negative pressure with respect to adjacent spaces with the doors to the room closed. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media prior to occupancy that provides a Minimum Efficiency Reporting Value (MERV) of 13 or better. Filtration should be applied to process both return and outside air that is to be delivered as supply air. Provide containment drains plumbed for appropriate disposal of hazardous liquid wastes in places where water and chemical concentrate mixing occurs (e.g. housekeeping, janitorial and science laboratories). 	I			D	Architect, Mechanical, Plumbing, Contractor	ODC point.
EQ 6.1	Controllability of Systems	Lighting: Provide individual lighting controls for 90% (minimum) of building occupants to enable adjustments to suit individual task needs and preferences. Provide lighting system controls for all shared multi- occupant spaces to enable adjustments that meet group needs and preferences.			I	D	Architect, Electrical	
EQ 6.2	Controllability of Systems	Thermal Comfort: Provide individual comfort controls for 50% (minimum) of the building occupants to enable adjustments to suit individual task needs and preferences. Operable windows can be used in lieu of comfort controls for occupants of areas that are 20 feet inside of and 10 feet to either side of the operable part of the window. The areas of operable window must meet the requirements of ASHRAE 62.1-2007 paragraph 5.1 Natural Ventilation. AND Provide comfort system controls for all shared multi-occupant spaces to enable adjustments to suit group needs and preferences. Conditions for thermal comfort are described in ASHRAE Standard 55- 2004 to include the primary factors: of air temperature, radiant temperature, air speed, and humidity. Comfort system control for the purposes of this credit is defined as the provision of control over at least one of these primary factors in the occupant's local environment.		1		D	Architect, Electrical	This credit needs to be studied in consideration of the health code as it pertains to food service areas.
EQ 7.1	Thermal Comfort	Design: Design HVAC systems and the building envelope to meet the requirements of ASHRAE Standard 55- 2004, Thermal Comfort Conditions for Human Occupancy. Demonstrate design compliance in accordance with the Section 6.1.1 Documentation.	I			D	Architect	ODC point.



UCR Barn Project, East Campus Prepared by Simon & Associates, Inc.								
LEED 2009 Gr	een Building Design & C	onstruction Priorities Matrix (NC)						April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	ON	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS
EQ 7.2	Thermal Comfort	 Verification Achieve EQ 7.1 AND agree to conduct a thermal comfort survey of building occupants (adults and students of grades 6 and above) within 6 to 18 months after occupancy. This survey should collect anonymous responses about thermal comfort in the building, including an assessment of overall satisfaction with thermal performance and identification of thermal comfort problems. Agree to develop a plan for corrective action if the survey results indicate that more than 20% of occupants are dissatisfied with thermal comfort of the building. This plan should include measurement of relevant environmental variables in problem areas in accordance with ASHRAE Standard 55-2004 (with errata but with addenda). AND Provide a permanent monitoring system to ensure that building performance meets the desired comfort criteria as determined by EQ 7.1. Residential Projects are not eligible for this credit. 	I			D	Architect	Provides an opportunity for educational benefit for the project.
EQ 8.1	Daylight and Views	Daylight 75% of Spaces OPTION I - SIMULATION Demonstrate through computer simulation that 75% or more of regularly occupied spaces achieve daylight illuminance levels of a minimum of 25 footcandles (fc) and a maximum of 500 fc in a clear sky condition on September 21 at 9 am and 3 pm: areas with illuminance levels below or above the range do not comply. However, designs that incorporate view-preserving automated shades for glare control may demonstrate compliance for only the minimum 25 fc illuminance level. OR OPTION 2 - PRESCRIPTIVE Sidelighting Daylight Zone Top-lighting Daylight Zone OR OPTION 3 - MEASUREMENT OR OPTION 4 - COMBINATION	I			D	Architect	
EQ 8.2		Views for 90% of Spaces: Achieve direct line of sight to the outdoor environment via vision glazing between 30" and 90" above finish floor for building occupants in 90% of all regularly occupied areas. Determine the area with direct line of sight by totaling the regularly occupied square footage that meets the following criteria: • In plan view, the area is within sight lines drawn from the area to perimeter vision glazing. • In section view, a direct sight line can be drawn from the area to perimeter vision glazing. Line of sight may be drawn through interior glazing. For private offices, the entire square footage of the office can be counted if 75% or more of the area has direct line of sight to perimeter vision glazing is counted.	I			D	Architect	



UCR Barn	Project, East Ca	mpus					Pre	pared by Simon & Associates, Inc.
LEED 2009 Gr	een Building Design & C	Construction Priorities Matrix (NC)						April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	YES	MAYBE	ON	(D) DESIGN OR (C) CONSTRUCTION PHASE	PARTIES RESPONSIBLE FOR DOCUMEN TATION	COMMENTS/ACTION ITEMS
ID 1.1-1.5	Innovation in Design	Purpose: To provide design teams and projects the opportunity to be awarded points for exceptional performance above requirements set by the LEED Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED Rating System. Requirements: In writing, identify the Intent of the proposed innovation credit, the proposed requirement for compliance, the proposed submittals to demonstrate compliance, and the design approach (strategies) that might be used to meet the requirements. Substantially exceed a LEED performance credit such as energy performance or water efficiency. Apply strategies or measures that demonstrate a comprehensive approach and quantifiable environment and/or health benefits.						
ID I.I	TBD	e.g. Green cleaning		I		D	TBD	Green Seal cleaners are among the UCR Sustainability Plan goals.
ID 1.2	TBD	e.g. Integrated pest management		I		D	TBD	IPM is among the UCR Sustainability Plan goals.
ID 1.3	TBD	e.g. Double green power		I		D	TBD	
ID 1.4	TBD	e.g. Green Building as Educational Tool	I			D	TBD	Case Studies will be an intermediate goal outlined in the UCR Sustainability Plan.
ID 1.5	TBD	e.g. Sustainability in the Curriculum, Eco-Literacy	I			D	TBD	Currently a goal of the UCR Sustainability plan.
ID 2	LEED Accredited Professional	Intent: To support and encourage the design integration required by a LEED-NC green building project and to streamline the application and certification process. Requirements:At least one principal participant of the project team shall be a LEED Accredited Professional (AP).	I			D	Simon & Assoc.	ODC point.



UCR Barn	Project, East Car	npus					Pre	pared by Simon & Associates, Inc.
LEED 2009 Gr	een Building Design & Co	onstruction Priorities Matrix (NC)						April 9, 2010
CREDIT (blue shading indicates a campus baseline credit)		DESIGN/CONSTRUCTION REQUIREMENTS	PARTIES RESPONSIBLE FOR DOCUMENTATION	COMMENTS/ACTION ITEMS				
Regional Bonus	Credits		1		1	1	1	
RB 1.1-1.4	Regional Bonus Credit	To provide design teams and projects the opportunity to be awarded points for achievement of existing LEED credits that deliver regionally important benefit which has been deemed, by the regional authority, to have benefit above the point value set by the LEED Green Building Rating System. Requirements: Achieve one of the six (6) credits, to a maximum of four (4), that have been identified as regionally important by the regional authority where the LEED project is located.						
RB I.I	SS 4.1	Alternative Transportation: Public Transportation Access	1			D	TBD	
RB 1.2	SS 7.1	Heat Island Effect: Non-Roof	1			D	TBD	
RB 1.3	WE 2	Innovative Wastewater Technology				D	TBD	
RB 1.4	WE 3 (40%)	Water Use Reduction		1		D	TBD	
	EA 2 (1%)	On-site Renewable Energy						
	EQ 8.1	Daylight and Views: Daylight	1					
		TOTAL POINTS	62	34	14			
-		LEED Certified = 40-49, Silver = 50-59, Gold = 60-79, Platinum = 80-110				110	Possible Points	
R	ESPONSIBLE PARTY KEY: Owner Architect Civil Landscape MEP Cx Agent LEED/Sustainability Contractor Construction Manager Other Environmental	Simon & Associates, Inc.				F	Project Schedule: SD DD CD Bid CA CO	
		LEED-Online Access: http://leedonline.com						



V. COST PLAN

A Preliminary Budget Estimate has been prepared and reflects the program and systems presented in the DPP. For costing purposes, the project has been broken into phases and the building and landscape elements are costed separately. COST PLAN

Preliminary Budget Estimate

University of California, Riverside The Barn Project Riverside, CA

Preliminary Budget Estimate

Revised May 25, 2010 Prepared for Fernau & Hartman Architects

Basis of Estimate

5/25/2010

Preliminary Budget Estimate

COST PLAN

University of California, Riverside The Barn Project Preliminary Budget Estimate

1 Basis of Estimate

This statement is based on program plans by Fernau & Hartman Architects, along with verbal direction from the architectural team and Owner.

2 Conditions of Construction

The pricing is based on the following general conditions of construction:

- Start date of construction June 2011 for Phase 1A, June 2012 for Phase 1B, and June 2013 for Phase 2 A construction period of 12 months for Phases 1A and 2; and a construction period of 5 months for Phase 1B
- Construction contract procurement method is CM at risk
- Contractors performance bond is to be included by the general contractor
- Builder's Risk Insurance is deemed to be included by the general contractor, Owner's Risk Insurance is by Ower and excludes from the estimate
- Phasing assumptions are shown on the summary sheet
- The general contractor will have full access to the site during normal business hours
- Contractor's General Conditions and Site Management are included in the estimate, but only for the duration of construction. They are excluded for the duration between phases.

3 Items Not Included Within Estimate

The following cost items are excluded from this estimate:

Theater Renovation and Expansion Professional fees, inspections and testing Construction Management Pre-construction Fees Cost escalation beyond the midpoint of construction Plan check fees and building permit fees Movable Furnishings, fixtures and equipment (FF&E) Costs of offsite construction except potential new utility connections at east of site Construction contingency costs LEED Commissioning and Certification fees

4 Notes

We recommend that the client review this statement, and that any interpretations contrary to those intended by the design documents be fully addressed. The statement is based upon a detailed measurement of quantities when possible, and reasonable allowances for items not clearly defined in the documents. The facts presented, and the recommendations made, are believed to be reliable. The cost estimate is distributed upon the condition that the Owner and the Architect shall review the estimate documents for scope of work and content.

OLI 09039

161 UC RIVERSIDE | THE BARN PROJECT PHASES 1 & 2 | DETAILED PROJECT PROGRAM

COST PLAN

Preliminary Budget Estimate

5/25/2010

Basis of Estimate (Continued)

The statement reflects probable construction costs obtainable in a competitive and stable bidding market. This estimate presumes a minimum of four (4) competitive bids from qualified general contractors, with bids from a minimum of three (3) subcontractors per trade. This statement is a determination of fair market value for the construction of the project and is not intended to be a prediction of low bid. Experience indicates that a fewer number of bidders may result in a higher bid amount, and more bidders may result in a lower bid amount.

1 bid add 25% to 40% 2 to 3 bids add 8% to 12% 4 to 5 bids -4% to +4% 7 to 8 bids deduct 5% to 7%

5 Escalation

For the purpose of this report cost escalation has been assumed at the following levels:

2010 2% 2011 2% 2012 4%

COST PLAN

Preliminary Budget Estimate

5/25/2010

Construction Cost Summary

University of California, Riverside The Barn Project Preliminary Budget Estimate

Construction Cost Summary	Area		Cost/SF	Total
Phase 1A				
Cottage	939	SF	\$730.87	\$686,288
Kitchen Addition	4,482	SF	692.66	3,104,515
Barn Stable	1,486	SF	710.26	1,055,451
Barn Stable Addition	1,031	SF	802.51	827,392
Sitework Phase 1A				1,673,059
Phase 1B				
Barn Dining	4,132	SF	\$459.48	\$1,898,572
East Courtyard Restrooms	350	SF	1,003.54	351,240
Sitework Phase 1B				214,809
Phase 2				
KUCR & Performance Stage	4.910	SF	\$707.35	\$3,473,075
Sitework Phase 2	,			1,465,520
Allowance for Relocation of KUCR Tower				160,000
Total Estimated Construction Cost	17,330	SF	\$860.35	\$14,909,921

Alternates

 Provide Alterations to Sproul Hall Loading Dock Provide Onsite Chiller and Boiler in lieu of Conn to Campus HW/CHW. Provide Audio Visual Equipment Provide Emergency Power for Kitchen Addition & KUCR 	Add Add Add Add	\$447,011 (66,918) 442,731 418,582
 5) Provide Construction Management Preconstruction Services 6) Provide Enhanced Commissioning/3rd Party Commissioning Services 7) Allow for Patching & Painting Barn Theater 8) Provide Security Devices 	Add Add Add Add	250,000 75,000 15,000 142,211

Allowances Included in the Estimate Performance Space @ KUCR Building

\$328,890

OLI 09039

University of California, Riverside

UC Cost Summary

COST PLA

Preliminary Budget Estimate

5/25/2010

						Universit T Prelim	y of California, River The Barn Project inary Budget Estimat	side te							
			Phas	e 1A		.	Phase 1B				Phase KUCR &	2	, I	TOTAL	
UC Cost Summary	Cottage	Kitchen Addition	Barn Stable	Barn Stable Addition	Phase 1A Sitework	Phase 1A Subtotal	Barn Dining	Courtyard Restrooms	Phase 1B Sitework	Phase 1B Subtotal	Performance Stage	Phase 2 Sitework	of KUCR Tower	Phase 2 Subtotal	
1.0 Foundations 2.0 Vertical Structure 3.0 Floor & Roof Structures 4.0 Exterior Cladding 5.0 Roofing, Waterproofing & Skylights	\$92,681 28,572 46,703 53,736 40,975	\$84,986 \$175,994 \$287,804 \$428,408 \$119,917	\$132,805 35,962 114,530 160,496 48,556	\$22,953 46,039 80,971 185,951 58,312	\$0 0 0 0	\$333,425 286,567 530,008 828,591 267,760	\$66,216 157,813 206,270 274,756 115,405	\$8,784 30,811 39,081 65,108 13,514	\$0 0 0 0	\$75,000 188,624 245,351 339,865 128,919	\$77,183 193,519 427,231 595,908 180,917	\$0 0 0 0		\$77,183 193,519 427,231 595,908 180,917	\$485,607 668,709 1,202,590 1,764,364 577,595
Total Shell (1.0 - 5.0)	\$262,668	\$1,097,108	\$492,348	\$394,226	\$0	\$2,246,350	\$820,461	\$157,297	\$0	\$977,758	\$1,474,757	\$0		\$1,474,757	\$4,698,866
6.0 Interior Partitions, Doors & Glazing 7.0 Floor, Wall & Ceiling Finishes	\$21,548 \$28,594	\$116,303 \$158,736	\$26,767 58,861	\$47,645 38,438	\$0 0	\$212,263	\$34,189 126,434	\$9,730 39,103	\$0 0	\$43,919 165,536	\$265,369 717,033	\$0 0		\$265,369 717,033	\$521,551 882,569
Total Interiors (6.0 - 7.0)	\$50,142	\$275,039	\$85,628	\$86,083	\$0	\$212,263	\$160,623	\$48,832	\$0	\$209,455	\$982,402	\$0		\$982,402	\$1,404,120
8.0 Function Equipment & Specialties 9.0 Stairs & Vertical Transportation	\$157,608 \$6,692	\$888,576 \$0	\$164,364 0	\$50,309 0	\$0 0	\$1,260,857 6,692	\$137,995 0	\$9,608 0	\$0 0	\$147,603 0	\$162,829 0	\$0 0		\$162,829 0	\$1,571,288 6,692
Total Equip and Vert Transportation (8.0-9.0)	\$164,300	\$888,576	\$164,364	\$50,309	\$0	\$1,267,549	\$137,995	\$9,608	\$0	\$147,603	\$162,829	\$0		\$162,829	\$1,577,980
 Plumbing Systems Heating, Ventilating & Air Conditioning Electric Lighting, Power & Communications Fire Protection Systems 	\$19,453 \$25,452 \$59,336 \$9,245	\$169,996 \$206,559 \$232,023 \$31,115	\$25,860 70,371 84,504 11,925	\$41,924 29,872 58,245 7,067	\$0 0 0	257,234 332,254 434,108 59,351	\$58,718 245,134 234,689 32,844	\$37,162 15,405 23,335 <u>5,546</u>	\$0 0 0	\$95,880 260,540 258,024 38,390	\$76,990 205,229 345,177 34,138	\$0 0 0		\$76,990 205,229 345,177 34,138	\$430,103 798,022 1,037,309 131,879
Total Mechanical and Electrical (10.0 - 13.0)	\$113,487	\$639,692	\$192,660	\$137,108	\$0	\$1,082,947	\$571,385	\$81,449	\$0	\$652,833	\$661,534	\$0		\$661,534	\$2,397,314
Subtotal Building Construction (1.0 - 13.0)	\$590,596	\$2,900,416	\$934,999	\$667,726	\$0	\$5,093,737	\$1,690,464	\$297,186	\$0	\$1,987,650	\$3,281,521	\$0		\$3,281,521	\$10,362,908
14.0 Site Preparation & Demolition 15.0 Site Paving, Structures & Landscaping 16.0 Site Utilities	21,414 34,128 40,151	20,075 63,572 120,452	13,384 0 107,069	20,075 106,132 33,459	175,304 632,106 865,649	250,252 835,937 1,166,779	27,027 93,243 87,838	0 0 54,054	74,201 93,311 47,297	101,228 186,554 189,189	21,050 30,171 140,333	21,050 1,360,270 84,200		42,100 1,390,442 224,532	393,580 2,412,933 1,580,500
Subtotal Site Construction (14.0 - 16.0)	\$95,692	\$204,099	\$120,452	\$159,666	\$1,673,059	\$2,252,969	\$208,108	\$54,054	\$214,809	\$476,971	\$191,554	\$1,465,520		\$1,657,074	\$4,387,013
Allowance for Relocation of KUCR Tower													\$160,000	\$160,000	\$160,000
TOTAL BUILDING & SITE COST (1.0-16.0)	\$686,288	\$3,104,515	\$1,055,451	\$827,392	\$1,673,059	\$7,346,705	\$1,898,572	\$351,240	\$214,809	\$2,464,621	\$3,473,075	\$1,465,520	\$160,000	\$5,098,595	\$14,909,921

UC Cost Summary

COST PLA

Preliminary Budget Estimate

5/25/2010

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						1 Icilii	mary Budget Lotin	uto							
			Phase	e 1A				Phase	1B			Phase 2		1	TOTAL
			1 11400	Barn	-			East			KUCR &				
UC Cost Summary	Cottage	Addition	Barn Stable	Addition	Phase 1A Sitework	Phase 1A Subtotal	Barn Dining	Restrooms	Phase 1B Sitework	Subtotal	Performance Stage	Sitework		Subtotal	
1.0 Foundations	\$69,250	\$63,500	\$99,230	\$17,150	\$0	\$249,130	\$49,000	\$6,500	\$0	\$55,500	\$55,000	\$0		\$55,000	\$359,630
2.0 Vertical Structure	21,349	131,500	26,870	34,400	0	214,119	116,782	22,800	0	139,582	137,900	0		137,900	491,601
4.0 Exterior Cladding	34,896 40 151	215,043	85,575 119 920	138 940	0	396,014	152,640	28,920	0	251 500	304,442 424 640	0		304,442	1 295 251
5.0 Roofing, Waterproofing & Skylights	30,616	89,600	36,280	43,570	0	200,066	85,400	10,000	0	95,400	128,920	0		128,920	424,386
Total Shell (1.0 - 5.0)	\$196,262	\$819,743	\$367,875	\$294,560	\$0	\$1,678,440	\$607,142	\$116,400	\$0	\$723,542	\$1,050,902	\$0		\$1,050,902	\$3,452,884
6.0 Interior Partitions, Doors & Glazing	\$16,100	\$86,900	\$20,000	\$35,600	\$0	\$158,600	\$25,300	\$7,200	\$0	\$32,500	\$189,100	\$0		\$189,100	\$380,200
7.0 Floor, Wall & Ceiling Finishes	21,365	118,605	43,980	28,720	0	212,670	93,561	28,936	0	122,497	510,953	0		510,953	846,120
Total Interiors (6.0 - 7.0)	\$37,465	\$205,505	\$63,980	\$64,320	\$0	\$371,270	\$118,861	\$36,136	\$0	\$154,997	\$700,053	\$0		\$700,053	\$1,226,320
8.0 Function Equipment & Specialties	\$117,763	\$663,931	\$122,810	\$37,590	\$0	\$942,094	\$102,117	\$7,110	\$0 0	\$109,227	\$116,031	\$0		\$116,031	\$1,167,351
Total Equip and Vert Transportation (8.0-9.0)	\$122,763	\$663,931	\$122,810	\$37,590	\$0	\$947,094	\$102,117	\$7,110	\$0	\$109,227	\$116,031	\$0		\$116,031	\$1,172,351
10.0 Plumbing Systems	\$14,535	\$127,019	\$19,323	\$31,325	\$0	\$192,201	\$43,451	\$27,500	\$0	\$70,951	\$54,863	\$0		\$54,863	\$318,015
11.0 Heating, Ventilation & Air Conditioning	19,018	154,338	52,580	22,320	0	248,255	181,400	11,400	0	192,800	146,245	0		146,245	587,300
13.0 Fire Protection Systems	6,908	23,249	8,910	5,280	0	44,347	24,305	4,104	0	28,409	243,971	0		24,327	97,082
Total Mechanical and Electrical (10.0 - 13.0)	\$84,796	\$477,969	\$143,953	\$102,445	\$0	\$809,162	\$422,825	\$60,272	\$0	\$483,097	\$471,405	\$0		\$471,405	\$1,763,663
Subtotal Building Construction (1.0 - 13.0)	\$441,285	\$2,167,148	\$698,618	\$498,915	\$0	\$3,805,965	\$1,250,945	\$219,918	\$0	\$1,470,863	\$2,338,390	\$0		\$2,338,390	\$7,615,217
14.0 Site Preparation & Demolition	\$16,000	\$15,000	\$10,000	\$15,000	\$130,985	\$186 985	\$20,000	0	\$54 909	\$74 909	\$15,000	\$15,000		\$30,000	\$291 894
15.0 Site Paving, Structures & Landscaping	25,500	47,500	0	79,300	472,300	624,600	69,000	0	69,050	138,050	21,500	969,320		990,820	1,753,470
16.0 Site Utilities	30,000	90,000	80,000	25,000	646,800	871,800	65,000	\$40,000	35,000	140,000	100,000	60,000		160,000	1,171,800
Subtotal Site Construction (14.0 - 16.0)	\$71,500	\$152,500	\$90,000	\$119,300	\$1,250,085	\$1,683,385	\$154,000	\$40,000	\$158,959	\$352,959	\$136,500	\$1,044,320		\$1,180,820	\$3,217,163
SUBTOTAL BUILDING AND SITE COST	\$512,785	\$2,319,648	\$788,618	\$618,215	\$1,250,085	\$5,489,350	\$1,404,945	\$259,918	\$158,959	\$1,823,822	\$2,474,890	\$1,044,320		\$3,519,210	\$10,832,381
General Conditions 12.5%	64,098	289,956	98,577	77,277	156,261	686,169	175,618	32,490	19,870	227,978	309,361	130,540		439,901	1,354,048
Contractor's Fee 5.0%	28,844	130,480	44,360	34,775	70,317	308,776	79,028	14,620	8,941	102,590	139,213	58,743		197,956	609,321
Escalation 10.0%	19 989	274,008	93,155 30 741	73,027 24 099	48 730	213 982	73 022	30,703	18,777	215,439	292,346	123,360		415,707	1,2/9,5/5
Allowance for Relocation of KUCR Tower				2.,000		210,002		.0,000	0,202	0.,.00	201,200		160,000	160,000	160,000
TOTAL BUILDING & SITE COST (1.0-16.0)	\$686,288	\$3,104,515	\$1,055,451	\$827,392	\$1,673,059	\$7,346,705	\$1,898,572	\$351,240	\$214,809	\$2,464,621	\$3,473,075	\$1,465,520	\$160,000	\$5,098,595	\$14,909,921

University of California, Riverside

Cottage Relocation Renovation Control Quantities

5/25/2010

University of California, Riverside The Barn Project Preliminary Budget Estimate

Schedule of Areas	Gross Area
Cottage Relocation & Renovation	
Enclosed Area	879 SF
Covered Area 1/2	60 SF
Gross Area	939 SF

		Ratio to Gross Area
1	Ea	
939	SF	0.90
879	SF	0.84
120	SF	0.11
999	SF	0.96
9,240	CF	8.84
1,764	SF	1.69
0	SF	0.00
1,564	SF	1.50
100	SF	0.10
1,476	SF	1.41
879	SF	0.84
44	LF	0.04
0	SF	0.00
0	Ea	0.00
3	Ea	0.00
	1 939 879 120 999 9,240 1,764 0 1,564 100 1,476 879 44 0 0 3	1 Ea 939 SF 879 SF 120 SF 999 SF 9,240 CF 1,764 SF 1,764 SF 100 SF 1,476 SF 879 SF 44 LF 0 SF 0 Ea 3 Ea 3 Ea

COST PLAN

Kitchen Addition Control Quantities

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University of California, Riverside The Barn Project Preliminary Budget Estimate

Schedule of AreasGross AreaKitchen Addition
Enclosed Area4,432 SF
20 SF
Gross AreaGross Area4,432 SF
4,482 SF

Control Quantities			Ratio to Gross Area
Kitchen Addition			
Number of Stories	1	Ea	
Total Area	4,532	SF	1.06
Enclosed Area	4,432	SF	1.04
Covered Area	100	SF	0.02
Footprint Area	4,532	SF	1.06
Volume (Gross)	45,500	CF	10.64
Gross Wall Area	4,800	SF	1.12
Retaining Wall Area	500	SF	0.12
Finished Wall Area	3,800	SF	0.89
Windows or Glazing Area	450	SF	0.11
Roof Area - Pitched	4,590	SF	1.07
Finished Area	3,785	SF	0.88
Interior Partitions	400	LF	0.09
Shelled Area	0	SF	0.00
Elevators	0	Ea	0.00
Plumbing Fixtures	20	Ea	0.00

Barn Stable Control Quantities

5/25/2010

University of California, Riverside The Barn Project Preliminary Budget Estimate

Schedule of Areas Gross Area Barn Stable Enclosed Area 1,486 SF Covered Area 1/2 0 SF Gross Area 1,486 SF

Control Quantities			Ratio to Gross Area
Barn Stable			
Number of Stories	1	Ea	
Total Area	1,486	SF	1.00
Enclosed Area	1,486	SF	1.00
Covered Area	0	SF	0.00
Footprint Area	1,486	SF	1.00
Volume (Gross)	19,970	CF	13.44
Gross Wall Area	2,890	SF	1.94
Retaining Wall Area	0	SF	0.00
Finished Wall Area	2,170	SF	1.46
Windows or Glazing Area	120	SF	0.08
Roof Area - Pitched	1,830	SF	1.23
Finished Area	1,486	SF	1.00
Interior Partitions	90	LF	0.06
Shelled Area	0	SF	0.00
Elevators	0	Ea	0.00
Plumbing Fixtures	4	Ea	0.00

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Barn Stable Addition Control Quantities

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Schedule of Areas Gross Area Barn Stable Addition 981 SF Enclosed Area Covered Area 1/2 50 SF 1,031 SF Gross Area **Control Quantities** Ratio to Gross Area Barn Stable Addition Number of Stories 1 Ea Total Area 1,031 SF 1.00 Enclosed Area 981 SF 0.95 Covered Area 100 SF 0.10 Footprint Area 1,081 SF 1.05 Volume (Gross) 8,880 CF 8.61 Gross Wall Area 1,792 SF 1.74 Retaining Wall Area 0 SF 0.00 Finished Wall Area 1472 SF 1.43

	1,712	01	1.40
Windows or Glazing Area	320	SF	0.31
Roof Area - Pitched	9,800	SF	9.51
Finished Area	830	SF	0.81
Interior Partitions	110	LF	0.11
Shelled Area	0	SF	0.00
Elevators	0	Ea	0.00
Plumbing Fixtures	5	Ea	0.00

Barn Dining Control Quantities

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University of California, Riverside The Barn Project Preliminary Budget Estimate

Schedule of Areas Gross Area Barn Dining Renovation Enclosed Area 4,132 SF Covered Area 1/2 0 SF Gross Area 4,132 SF

Control Quantities			Ratio to Gross Area
Barn Dining Renovation			
Number of Stories	1	Ea	
Total Area	4,132	SF	0.94
Enclosed Area	4,132	SF	0.94
Covered Area	0	SF	0.00
Footprint Area	4,132	SF	0.94
Volume (Gross)	56,450	CF	12.77
Gross Wall Area	3,680	SF	0.83
Retaining Wall Area	0	SF	0.00
Finished Wall Area	2,760	SF	0.62
Windows or Glazing Area	920	SF	0.21
Roof Area - Pitched	4,900	SF	1.11
Finished Area	4,419	SF	1.00
Interior Partitions	100	LF	0.02
Shelled Area	0	SF	0.00
Elevators	0	Ea	0.00
Plumbing Fixtures	4	Ea	0.00

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Gross Area			
350 SF			
0 SF			
350 SF			

Control Quantities			Ratio to Gross Area
East Courtyard Restrooms			
Number of Stories	1	Ea	
Total Area	350	SF	0.77
Enclosed Area	350	SF	0.77
Covered Area	0	SF	0.00
Footprint Area	350	SF	0.77
Volume (Gross)	4,560	CF	10.00
Gross Wall Area	1,040	SF	2.28
Retaining Wall Area	0	SF	0.00
Finished Wall Area	1,040	SF	2.28
Windows or Glazing Area	0	SF	0.00
Roof Area - Pitched	456	SF	1.00
Finished Area	456	SF	1.00
Interior Partitions	40	LF	0.09
Shelled Area	0	SF	0.00
Elevators	0	Ea	0.00
Plumbing Fixtures	8	Ea	0.02

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KUCR Control Quantities

University of California, Riverside The Barn Project Preliminary Budget Estimate

Schedule of AreasGross AreaKUCR & Performance Stage
Enclosed Area4,423 SF
487 SF
Gross AreaGross Area4,423 SF
4,910 SF

Control Quantities			Ratio to Gross Area
KUCR & Performance Stage			
Number of Stories	1	Ea	
Total Area	4,910	SF	1.00
Enclosed Area	4,423	SF	0.90
Covered Area	975	SF	0.20
Footprint Area	5,400	SF	1.10
Volume (Gross)	70,768	CF	14.41
Gross Wall Area	5,120	SF	1.04
Retaining Wall Area	400	SF	0.08
Finished Wall Area	4,220	SF	0.86
Windows or Glazing Area	500	SF	0.10
Roof Area - Pitched	5,830	SF	1.19
Finished Area	4,423	SF	0.90
Interior Partitions	480	LF	0.10
Shelled Area	0	SF	0.00
Elevators	0	Ea	0.00
Plumbing Fixtures	8	Ea	0.00

COST PLAN

Cottage Relocation Renovation Summary Page 1 of 4

University of California, Riverside The Barn Project Preliminary Budget Estimate

Cottage Relocation & Renovation Summary		Cost	Cost/SF
1.0 Foundations		\$60.250	\$73.75
2.0 Vertical Structure		21 340	22.74
2.0 Floor & Roof Structure		21,049	27.14
4.0 Exterior Cladding		34,090	40.76
4.0 Exterior Cladding		40,151	42.76
5.0 Rooting & Waterprooting		30,616	32.60
Total Shell (1.0 - 5.0)		\$196,262	\$209.01
6.0 Interior Partitions Doors & Glazing		\$16 100	\$17 15
7.0 Floor Wall & Ceiling Finish		21 365	22 75
		21,000	22.15
Total Interiors (6.0 - 7.0)		\$37,465	\$39.90
8.0 Function Equipment & Specialties		\$117,763	\$125.41
9.0 Stairs and Vertical Transportation		5,000	5.32
Total Equipment and Vertical Transportation (8	.0 - 9.0)	\$122,763	\$130.74
10.0 Dlumbing Systems		¢14 535	¢1E 40
10.0 Fluitibility Systems		\$14,535 10,019	\$15.40 20.25
11.0 Heating, ventilation & All Conditioning		19,016	20.25
12.0 Electrical Lighting, Power & Communication		44,335	47.22
13.0 Fire Protection Systems		6,908	7.36
Total Mechanical and Electrical (10.0 - 13.0)		\$84,796	\$90.30
Subtotal Building Construction (1.0 - 13.0)		\$441,285	\$469.95
14.0 Site Preparation & Building Demolition		\$16.000	\$17.04
15.0 Site Paving Structures & Landscaping		25 500	27 16
16.0 Utilities on Site		30,000	31.95
Total Site Construction (14.0 - 16.0)		\$71,500	\$76.14
	(0.0)		
SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0 -	- 16.0)	\$512,785	\$546.10
General Conditions	12.5%	64 098	68 26
Contractor's Eee	5.0%	28 844	30.72
	0.070	20,011	
Subtotal		\$605,727	\$645.08
Design Contingency	10.0%	60,573	64.51
Escalation For Construction Start June 2011	3.0%	19,989	21.29
Total Construction Cost		\$686.288	\$730.87
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Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

COST PLAN

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Preliminary Budget Estimate

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University of California, Riverside The Barn Project Preliminary Budget Estimate

Cottage Relocation & Renovation Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul Imported Fill	50 CY None None	35.00	\$1,750
Hazmat Mitigation Allow for Dryrot Repairs Allow for Obstacles & Misc Conditions Foundations/Tie Beams Relocate Building	1 LS 1 LS 1 LS 30 CY Allow	450.00	25,000 9,000 5,000 13,500 15,000
Total 1.0 Foundations			\$69,250
2.0 Vertical Structure Upgrade to Existing Structure Misc. Rough Carpentry Retaining Walls	1211 SF 1 LS None	13.50 -	\$16,349 5,000
Total 2.0 Vertical Structures			\$21,349
3.0 Floor and Roof Structure Slab on Grade @ Ramps Pads & Curbs	300 SF 175 LF	20.00 18.00	\$6,000 3,150
Roof Structure Upgrade Porch Repairs Miscellaneous	1476 SF 332 SF 1 LS	13.50 10.00	19,926 3,320 2,500
Total 3.0 Floor and Roof Structure		-	\$34,896
4.0 Exterior Cladding Repair Existing Wall Cladding & Repaint Replace Windows Louvers Mechanical Equipment Screen	1764 SF 110 SF 1 LS None	9.00 85.00	\$15,876 9,350 1,000
Doors - Double - Single Roof Hatch Card Readers	1 Pr 2 Ea None None	3,500 1,400	3,500 2,800
Soffits Sunshades Miscellaneous Metal & Hardware	210 SF None 1 LS	12.50	2,625 5,000
Total 4.0 Exterior Cladding		=	\$40,151

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FERNAU & HARTMAN ARCHITECTS

Cottage Relocation Renovation Page 3 of 4

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Preliminary	Budget	Estimate
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5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Comp Shingle Skylights	None 1476 SF None	16.00	\$23,616
Sheet Metal Caulking & Sealants Roof Accessories & Miscellaneous	Include 1 LS 1 LS	d Above	5,000 2,000
Total 5.0 Roofing & Waterproofing		=	\$30,616
6.0 Interior Partitions, Doors & Glazing Partitions	440.85	10.00	¢4.400
GWB @ New Shear Walls	1000 SF	3.50	3,500
Miscellaneous Cut & Patch for MEP	1 LS		4,000
Interior Glazing	None		
Single Double Roll Down Card Readers	3 Ea None None None	1,400	4,200
Total 6.0 Interior Partitions, Doors & Glazing		=	\$16,100
 7.0 Floor, Wall & Ceiling Finishes Floor Finishes Wall Finishes Ceiling Finishes Total 7.0 Floor, Wall & Ceiling Finishes 	1045 SF 300 SF 1045 SF	9.00 12.00 8.00 =	\$9,405 3,600 8,360 \$21,365
8.0 Function Equipment & Specialties Specialties Toilet Rooms	None	350.00	700
Other Div 10 Specialties	1045 SF	2.50	2,613
Refurbish Fireplace Millwork Kitchen Equipment Miscellaneous	1 LS 106 LF 1 LS 1 LS	325.00	10,000 34,450 65,000 5,000
Total 8.0 Function Equipment & Specialties			\$117,763
9.0 Stairs and Vertical Transportation	2 Sets	2,500	\$5,000
10.0 Plumbing Systems Toilet Rooms Kitchen Roof Drainage	None 2 Fixt 1476 SF	4,500 3.75 =	9,000 5,535
Total 10.0 Plumbing			\$14,535

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FERNAU & HARTMAN ARCHITECTS

Cottage Relocation Renovation Page 4 of 4

I.0 Heating,	Ventilation	& Air Co

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11.0 Heating, Ventilation & Air Conditioning Heat Pump Ductwork & Accessories Pipework & Accessories Controls	1 Ea 1045 SF 1045 SF 1 LS	5,000 6.00 5.50	\$5,000 6,270 5,748 2,000
Total 11.0 Heating, Ventilation & Air Conditioning		_	\$19,018
12.0 Electrical Lighting, Power & Communication Primary Power TVSS Emergency Power Feeders Equipment Power	1045 SF None None 4 Ea	4.50	\$4,703
User Convenience Power Lighting	12 Ea 1217 SF	350.00 10.00	4,200 12,170
Low Voltage Systems Telephone/Data System Master Clock System Public Address System Security System - Rough In Only Audio Visual Systems - Rough In Only Fire Alarm System	8 Ea None 1045 SF 1045 SF 1045 SF 1045 SF	900 2.00 4.00 2.00 4.50	7,200 2,090 4,180 2,090 4,703
Total 12.0 Electrical Lighting, Power & Communication			\$44,335
13.0 Fire Protection Systems	1256 SF	5.50	\$6,908
14.0 Site Preparation & Building Demolition Miscellaneous Demolition @ New Site Miscellaneous Demolition @ Existing Site	1 LS 1 LS	_	\$11,000 5,000
Total 14.0 Site Preparation & Building Demolition			\$16,000
15.0 Site Paving, Structures & Landscaping Fine Grading Paving Landscape & Irrigation Site Structures Trellis	Include Include Include 300 SF	d in Phase 1 d in Phase 1 d in Phase 1 60.00	A Sitework A Sitework A Sitework \$18,000
Railings Site Lighting Miscellaneous Site Accessories	75 LF Include Include	100.00 d in Phase 1 d in Phase 1	7,500 A Sitework A Sitework
Total 15.0 Site Paving, Structures & Landscaping		=	\$25,500
16.0 Utilities on Site Mechanical Utilities Electrical Utilities Total 16.0 Utilities on Site	Allow Allow	=	\$15,000 15,000 \$30,000

COST PLAN

Preliminary Budget Estimate

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University of California, Riverside The Barn Project Preliminary Budget Estimate

Kitchen Addition Cost Cost/SF \$63,500 \$14.17 1.0 Foundations 2.0 Vertical Structure 131,500 29.34 47.98 3.0 Floor & Roof Structure 215,043 4.0 Exterior Cladding 71.42 320,100 5.0 Roofing & Waterproofing 89,600 19.99 Total Shell (1.0 - 5.0) \$819,743 \$182.90 6.0 Interior Partitions, Doors & Glazing \$86,900 \$19.39 7.0 Floor, Wall & Ceiling Finish 118,605 26.46 \$205,505 \$45.85 Total Interiors (6.0 - 7.0) \$148.13 \$663,931 8.0 Function Equipment & Specialties 9.0 Stairs and Vertical Transportation 0 0.00 Total Equipment and Vertical Transportation (8.0 - 9.0) \$663,931 \$148.13 10.0 Plumbing Systems \$127,019 \$28.34 11.0 Heating, Ventilation & Air Conditioning 154,338 34.43 173,364 12.0 Electrical Lighting, Power & Communication 38.68 13.0 Fire Protection Systems 23.249 5.19 Total Mechanical and Electrical (10.0 - 13.0) \$477,969 \$106.64 Subtotal Building Construction (1.0 - 13.0) \$483.52 \$2,167,148 14.0 Site Preparation & Building Demolition \$15,000 \$3.35 15.0 Site Paving, Structures & Landscaping 47,500 10.60 90,000 16.0 Utilities on Site 20.08 Total Site Construction (14.0 - 16.0) \$152,500 \$34.02 SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0 - 16.0) \$2,319,648 \$517.55 General Conditions 12.5% 289,956 64.69 130,480 Contractor's Fee 5.0% 29.11 Subtotal \$2,740,084 \$611.35 Design Contingency 10.0% 274,008 61.14 Escalation to Construction Start June 2011 3.0% 90,423 20.17 **Total Construction Cost** \$3,104,515 \$692.66

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

COST PLAN

Preliminary Budget Estimate

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University of California, Riverside
University of California, Riverside The Barn Project Preliminary Budget Estimate

Kitchen Addition Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul Imported Fill	100 CY None None	45.00	\$4,500
Hazmat Mitigation Allow for Obstacles & Misc Conditions Foundations/Tie Beams	By Owr 1 LS 120 CY	450.00 _	5,000 54,000
Total 1.0 Foundations			\$63,500
2.0 Vertical Structure Shear Walls - CMU Misc. Rough Carpentry & Metals Retaining Walls	4200 SF 1 LS 1000 SF	20.00 40.00 ₌	\$84,000 7,500 <u>40,000</u>
Total 2.0 Vertical Structures			\$131,500
 3.0 Floor and Roof Structure Slab on Grade Pads & Curbs Loading Dock Slabs on Grade Roof Structure Miscellaneous Total 3.0 Floor and Roof Structure 	4227 SF 600 LF 1000 SF 4600 SF 1 LS	9.00 18.00 9.00 32.00 =	\$38,043 10,800 9,000 147,200 10,000 \$215,043
4.0 Exterior Cladding Exterior Wall Assembly - Metal Siding Windows Louvers Mechanical Equipment Screen	4200 SF 1000 SF 1 LS None	42.00 85.00	\$176,400 85,000 7,000
Doors - Double - Single Roof Hatch Card Readers	5 Pr 7 Ea None None	3,500 1,500	17,500 10,500
Soffits Sunshades	900 SF None	18.00	16,200
Miscellaneous Metal & Hardware	1 LS	=	7,500
I otal 4.0 Exterior Cladding			\$320,100

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5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Comp Shingle Skylights	1000 SF 4600 SF None	9.00 16.00	\$9,000 73,600
Sheet Metal Caulking & Sealants Roof Accessories & Miscellaneous	Include 1 LS 1 LS	d Above =	5,000 2,000
Total 5.0 Roofing & Waterproofing			\$89,600
6.0 Interior Partitions, Doors & Glazing Partitions			
Stud & GWB, Painted CMU	4000 SF 800 SF	10.00 20.00	\$40,000 16,000
Interior Glazing Doors	None		
Single Double Roll Down Card Readers	15 Ea 3 Pr None None	1,400 3,300	21,000 9,900
Total 6.0 Interior Partitions, Doors & Glazing		=	\$86,900
7.0 Floor, Wall & Ceiling Finishes Floor Finishes Wall Finishes Ceiling Finishes	4227 SF 4227 SF 3785 SF	10.00 10.00 9.00	\$42,270 42,270 34,065
Total 7.0 Floor, Wall & Ceiling Finishes			\$118,605
8.0 Function Equipment & Specialties Specialties			
Toilet Rooms Other Fixture Accessories Other Div 10 Specialties	2 Rms 10 Ea 4227 SF	4,500 350.00 3.00	\$9,000 3,500 12,681
Millwork Kitchen Equipment Exterior BBQ Unit Miscellaneous	150 LF Allowar 1 LS 1 LS	325.00 nce =	48,750 525,000 40,000 25,000
Total 8.0 Function Equipment & Specialties			\$663,931
9.0 Stairs and Vertical Transportation	None		
10.0 Plumbing Systems Toilet Rooms Fixtures Kitchen Fixtures Grease Trap	12 Fixt 6 Fixt 1 Ea	2,700 3,500 8,000	\$32,400 21,000 8,000

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10.0 Plumbing Systems (continued) Kitchen Equipment Rough In Roof Drainage Gas & Miscellaneous	1 LS 4165 SF 1 LS	3.75	15,000 15,619 35,000
Total 10.0 Plumbing		=	\$127,019
11.0 Heating, Ventilation & Air Conditioning Wet Equipment Connection to CHW/HW	1 LS		\$15,000
Dry Equipment AHU Exhaust Fans Miscellaneous Equipment	2 Ea 3 Ea 1 LS	28,000 3,500	56,000 10,500 10,000
Ductwork & Accessories Pipework & Accessories Controls	4227 SF 4227 SF 1 LS	8.00 4.50	33,816 19,022 10,000
Total 11.0 Heating, Ventilation & Air Conditioning		_	\$154,338
12.0 Electrical Lighting, Power & Communication Primary Power TVSS Emergency Power Feeders Equipment Power User Convenience Power Lighting	4227 SF None 20 LF 20 Ea 30 Ea 4227 SF	9.00 90.00 750.00 350.00 11.00	\$38,043 1,800 15,000 10,500 46,497
Low Voltage Systems Telephone/Data System Master Clock System Public Address System Security System - Rough In Only Audio Visual Systems - Rough In Only Fire Alarm System	12 Ea None 4227 SF 4227 SF 4227 SF 4227 SF 4227 SF	900 2.00 4.00 2.00 4.00	10,800 8,454 16,908 8,454 16,908
Total 12.0 Electrical Lighting, Power & Communication		=	\$173,364
13.0 Fire Protection Systems	4227 SF	5.50	\$23,249
14.0 Site Preparation & Building Demolition Demolition @ Existing Building Site Reconfiguration	1 LS 1 LS	=	\$7,500 7,500 \$15,000
			φ10,000

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15.0 Site Paving, Structures & Landscaping Fine Grading Paving Landscape & Irrigation	g Included in Phase Included in Phase Included in Phase	
Site Structures Trash Enclosure Utility Enclosure	1 LS 1 LS	\$15,000 10,000
Site Lighting @ Loading Miscellaneous Railings	1 LS 1 LS None	15,000 7,500
Total 15.0 Site Paving, Structures & Landscaping		\$47,500
16.0 Utilities on Site Mechanical Utilities Electrical Utilities	Allow Allow	\$50,000 40,000
Total 16.0 Utilities on Site		\$90,000

COST PLAN

University of California, Riverside The Barn Project Preliminary Budget Estimate

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Preliminary Budget Estimate

Barn Stable Summary		Cost	Cost/SF
 Foundations Vertical Structure Floor & Roof Structure Exterior Cladding Roofing & Waterproofing 		\$99,230 26,870 85,575 119,920 36,280	\$66.78 18.08 57.59 80.70 24.41
Total Shell (1.0 - 5.0)		\$367,875	\$247.56
6.0 Interior Partitions, Doors & Glazing 7.0 Floor, Wall & Ceiling Finish		\$20,000 43,980	\$13.46 29.60
Total Interiors (6.0 - 7.0)		\$63,980	\$43.06
8.0 Function Equipment & Specialties 9.0 Stairs and Vertical Transportation		\$122,810 0	\$82.64 0.00
Total Equipment and Vertical Transportation (8	8.0 - 9.0)	\$122,810	\$82.64
10.0 Plumbing Systems11.0 Heating, Ventilation & Air Conditioning12.0 Electrical Lighting, Power & Communication13.0 Fire Protection Systems		\$19,323 52,580 63,140 8,910	\$13.00 35.38 42.49 6.00
Total Mechanical and Electrical (10.0 - 13.0)		\$143,953	\$96.87
Subtotal Building Construction (1.0 - 13.0)		\$698,618	\$470.13
14.0 Site Preparation & Building Demolition 15.0 Site Paving, Structures & Landscaping 16.0 Utilities on Site		\$10,000 0 80,000	\$6.73 0.00 53.84
Total Site Construction (14.0 - 16.0)		\$90,000	\$60.57
SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0	- 16.0)	\$788,618	\$530.70
General Conditions Contractor's Fee	12.5% 5.0%	98,577 44,360	66.34 29.85
Subtotal		\$931,554	\$626.89
Design Contingency Escalation For Construction Start June 2011	10.0% 3.0%	93,155 30,741	62.69 20.69
Total Construction Cost		\$1,055,451	\$710.26

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

University of California, Riverside The Barn Project Preliminary Budget Estimate

Barn Stable Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul Imported Fill	78 CY None None	35.00	\$2,730
Hazmat Mitigation Allow for Dryrot Repairs Allow for Obstacles & Misc Conditions Foundations/Tie Beams Relocate Building	1 LS 1 LS 1 LS 50 CY Allow	450.00	25,000 9,000 5,000 22,500 35,000
Total 1.0 Foundations			\$99,230
2.0 Vertical Structure Upgrade to Existing Structure Misc. Rough Carpentry Retaining Walls	1620 SF 1 LS None	13.50	\$21,870 5,000
Total 2.0 Vertical Structures			\$26,870
3.0 Floor and Roof Structure Slab on Grade @ Ramps Pads & Curbs	1620 SF 200 LF	18.00 18.00	\$29,160 3,600
Roof Structure Upgrade New Eave Framing Porch Repairs Miscellaneous	1830 SF 165 LF None 1 LS	18.00 75.00	32,940 12,375 7,500
Total 3.0 Floor and Roof Structure		-	\$85,575
4.0 Exterior Cladding Repair Existing Wall Cladding & Repaint Replace & Enlarge Windows Louvers	2880 SF 400 SF 1 LS	9.00 85.00	\$25,920 34,000 5,000
Doors - Double - Single - Sliding Roof Hatch Card Readers	3 Pr 2 Ea 1 Ea None None	3,500 1,400 20,000	10,500 2,800 20,000
Soffits Sunshades Miscellaneous Metal & Hardware	300 SF 120 SF 1 LS	9.00 75.00	2,700 9,000 10,000
Total 4.0 Exterior Cladding			\$119,920

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5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Comp Shingle Skylights Sheet Metal	None 1830 SF None Included	16.00 Above	\$29,280
Caulking & Sealants Roof Accessories & Miscellaneous	1 LS 1 LS		5,000 2,000
Total 5.0 Roofing & Waterproofing		-	\$36,280
6.0 Interior Partitions, Doors & Glazing Partitions Stud & GWB, Painted	1120 SF	10.00	\$11,200
CMU	None		
Interior Glazing	None		
Single Double Roll Down Card Readers	4 Ea 1 Pr None None	1,400 3,200	5,600 3,200
Total 6.0 Interior Partitions, Doors & Glazing		-	\$20,000
 7.0 Floor, Wall & Ceiling Finishes Floor Finishes Wall Finishes Ceiling Finishes Total 7.0 Floor, Wall & Ceiling Finishes 	1620 SF 1200 SF 1620 SF	10.00 11.00 9.00 =	\$16,200 13,200 14,580 \$43,980
8.0 Function Equipment & Specialties Specialties Toilet Rooms Other Fixture Accessories Other Div 10 Specialties	None 2 Ea 1620 SF	350.00 3.00	\$700 4,860
Millwork Bar Enclosure Kitchen Equipment Miscellaneous	80 LF 125 SF 1 LS 1 LS	325.00 90.00	26,000 11,250 75,000 5,000
Total 8.0 Function Equipment & Specialties			\$122,810
9.0 Stairs and Vertical Transportation	None		
10.0 Plumbing Systems Toilet Rooms Kitchen Roof Drainage Gas & Miscellaneous Total 10.0 Plumbing	None 2 Fixt 1830 SF 1620 SF	3,500 2.75 4.50 =	\$7,000 5,033 7,290 \$19,323

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Total 15.0 Site Paving, Structures & Landscaping		=	\$0	=
Railings Site Lighting	None Include	ed in Sitewor	k Estimate	
Site Structures Trellis	Include	ed in Additior	n Estimate	
15.0 Site Paving, Structures & Landscaping Fine Grading Paving Landscape & Irrigation	Include Include Include	ed in Sitewor ed in Sitewor ed in Sitewor	k Estimate k Estimate k Estimate	
Total 14.0 Site Preparation & Building Demolition			\$10,000	
Demolition New Site Existing Site	1 LS 1 LS	=	\$5,000 5,000	-
14.0 Site Preparation & Building Demolition				
13.0 Fire Protection Systems	1620 SF	5.50	\$8,910	
Total 12.0 Electrical Lighting, Power & Communication			\$63,140	
Audio Visual Systems - Rough In Only Fire Alarm System	1620 SF 1620 SF 1620 SF	2.00 4.00	4,860 3,240 6,480	-
Low Voltage Systems Telephone/Data System Master Clock System Public Address System	12 Ea None 1620 SF	900.00 2.00	10,800 3,240	
User Convenience Power Lighting	16 Ea 1620 SF	350.00 11.00	5,600 17,820	
12.0 Electrical Lighting, Power & Communication Primary Power TVSS Emergency Power Feeders Equipment Power	1620 SF None None None 4 Ea	5.00 750.00	\$8,100 3,000	
Total 11.0 HVAC			\$52,580	
Ductwork & Accessories Pipework & Accessories Controls	1620 SF 1620 SF 1 LS	5.50 3.50	8,910 5,670 5,000	=
AHU Exhaust Fans	1 Ea 2 Ea	18,000 2,500	18,000 5,000	
Dry Equipment				

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16.0 Utilities on Site		
Mechanical Utilities	Allow	\$40,000
Electrical Utilities	Allow	40,000
Total 16.0 Utilities on Site		\$80,000

University of California, Riverside The Barn Project Preliminary Budget Estimate

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Preliminary Budget Estimate

Barn Stable Addition Summary		Cost	Cost/SF
 Foundations Vertical Structure Floor & Roof Structure Exterior Cladding Roofing & Waterproofing 		\$17,150 34,400 60,500 138,940 43,570	\$16.63 33.37 58.68 134.76 42.26
Total Shell (1.0 - 5.0)		\$294,560	\$285.70
6.0 Interior Partitions, Doors & Glazing 7.0 Floor, Wall & Ceiling Finish		\$35,600	\$34.53 27.86
Total Interiors (6.0 - 7.0)		\$64,320	\$62.39
8.0 Function Equipment & Specialties 9.0 Stairs and Vertical Transportation		\$37,590 0	\$36.46 0.00
Total Equipment and Vertical Transportation (8	3.0 - 9.0)	\$37,590	\$36.46
10.0 Plumbing Systems11.0 Heating, Ventilation & Air Conditioning12.0 Electrical Lighting, Power & Communication13.0 Fire Protection Systems		\$31,325 22,320 43,520 5,280	\$30.38 21.65 42.21 5.12
Total Mechanical and Electrical (10.0 - 13.0)		\$102,445	\$99.36
Subtotal Building Construction (1.0 - 13.0)		\$498,915	\$483.91
14.0 Site Preparation & Building Demolition 15.0 Site Paving, Structures & Landscaping 16.0 Utilities on Site		\$15,000 79,300 25,000	\$14.55 76.92 24.25
Total Site Construction (14.0 - 16.0)		\$119,300	\$115.71
SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0	- 16.0)	\$618,215	\$599.63
General Conditions Contractor's Fee	12.5% 5.0%	77,277 34,775	74.95 33.73
Subtotal		\$730,266	\$708.31
Design Contingency Escalation For Construction Start June 2011	10.0% 3.0%	73,027 24,099	70.83 23.37
Total Construction Cost		\$827,392	\$802.51

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

University of California, Riverside The Barn Project Preliminary Budget Estimate

Barn Stable Addition Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul Imported Fill	20 CY None None	45.00	\$900
Hazmat Mitigation Allow for Obstacles & Misc Conditions Foundations/Tie Beams	By Owr 1 LS 25 CY	ner 450.00 _	5,000 11,250
Total 1.0 Foundations			\$17,150
2.0 Vertical Structure Shear Walls - Wood Misc. Rough Carpentry & Metals Retaining Walls	1800 SF 1 LS None	18.00	\$32,400 2,000
Total 2.0 Vertical Structures			\$34,400
 3.0 Floor and Roof Structure Slab on Grade Pads & Curbs Terrace Slab on Grade Roof Structure Miscellaneous Total 3.0 Floor and Roof Structure 	900 SF 120 LF 1400 SF 1020 SF 1 LS	9.00 18.00 9.00 32.00	\$8,100 2,160 12,600 32,640 5,000 \$60,500
4.0 Exterior Cladding Exterior Wall Assembly - Metal Siding Windows Louvers Mechanical Equipment Screen	1800 SF 400 SF 1 LS None	42.00 85.00	\$75,600 34,000 2,500
Doors - Double - Single Roof Hatch Card Readers	3 Pr 2 Ea None None	4,500 1,000	13,500 2,000
Soffits Sunshades	120 SF None	32.00	3,840
Miscellaneous Metal & Hardware	1 LS	=	7,500
Total 4.0 Exterior Cladding			\$138,940

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Preliminary Budget Estimate

5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Comp Shingle Skylights Sheet Metal Caulking & Sealants Roof Accessories & Miscellaneous	None 1020 SF 150 SF Includer 1 LS 1 LS	16.00 135.00 d Above =	\$16,320 20,250 5,000 2,000
Total 5.0 Roofing & Waterproofing		_	\$43,570
6.0 Interior Partitions, Doors & Glazing Partitions Stud & GWB, Painted GWB on Shear Walls CMU	1320 SF 2400 SF None	10.00 3.50	\$13,200 8,400
Interior Glazing Doors	None		
Single Double Roll Down Card Readers	5 Ea 2 Pr None None	1,400 3,500	7,000 7,000
Total 6.0 Interior Partitions, Doors & Glazing			\$35,600
7.0 Floor, Wall & Ceiling FinishesFloor FinishesWall FinishesCeiling FinishesTotal 7.0 Floor, Wall & Ceiling Finishes	880 SF 1000 SF 880 SF	10.00 12.00 9.00 =	\$8,800 12,000 7,920 \$28,720
8.0 Function Equipment & Specialties Specialties Toilet Rooms Other Fixture Accessories Other Div 10 Specialties	2 Rms 1 Ea 880 SF	1,800 350.00 3.00	\$3,600 350 2,640
Millwork Kitchen Equipment Miscellaneous	80 LF None 1 LS	325.00	26,000 5.000
Total 8.0 Function Equipment & Specialties		=	\$37,590
9.0 Stairs and Vertical Transportation	None		
Toilet Rooms Fixtures	5 Fixt	3,500	\$17,500
Kitchen Fixtures Roof Drainage Gas & Miscellaneous	None 1020 SF 1 LS	3.75	3,825 10,000
Total 10.0 Plumbing			\$31,325

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11.0 Heating, Ventilation & Air Conditioning Wet Equipment	Include	ed in Barn Sta	able
Heat Pump Exhaust Fan	1 Ea 1 Ea	4,000 3,000	\$4,000 3,000
Ductwork & Accessories Pipework & Accessories - Incl Radiant Controls	880 SF 880 SF 1 LS	4.00 10.00	3,520 8,800 3,000
Total 11.0 Heating, Ventilation & Air Conditioning			\$22,320
12.0 Electrical Lighting, Power & Communication Primary Power TVSS Emergency Power Feeders	880 SF None None None	7.00	\$6,160
Equipment Power User Convenience Power Lighting	4 Ea 16 Ea 880 SF	750.00 350.00 11.00	3,000 5,600 9,680
Low Voltage Systems Telephone/Data System Master Clock System	8 Ea None	900.00	7,200
Public Address System Security System - Rough In Only Audio Visual Systems - Rough In Only Fire Alarm System	880 SF 880 SF 880 SF 880 SF 880 SF	2.00 4.00 3.00 4.50	1,760 3,520 2,640 3,960
Total 12.0 Electrical Lighting, Power & Communication		_	\$43,520
13.0 Fire Protection Systems	880 SF	6.00	\$5,280
14.0 Site Preparation & Building Demolition Miscellaneous Demolition @ New Site Miscellaneous Demolition @ Existing Site	1 LS 1 LS	_	\$7,500 7,500
Total 14.0 Site Preparation & Building Demolition			\$15,000
15.0 Site Paving, Structures & Landscaping Fine Grading Paving Landscape & Irrigation	Include Include Include	ed in Phase 1 ed in Phase 1 ed in Phase 1	A Sitework A Sitework A Sitework
Site Structures Trellis Fencing Gates	500 SF 110 LF 2 Ea	65.00 180.00 6,000	\$32,500 19,800 12,000
Railings Site Lighting @ Terrace	None 1 LS	_	15,000
Total 15.0 Site Paving, Structures & Landscaping			\$79,300

OST PLAN

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\$15,000 10,000 \$25,000

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16.0 Utilities on Site	
Mechanical Utilities	Allow
Electrical Utilities	Allow
Total 16.0 Utilities on Site	

COST PLAN

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Phase 1A Sitework Summary

Preliminary Budget Estimate

University of California, Riverside The Barn Project Preliminary Budget Estimate

14.0 Site Preparation & Building Demolition		\$130,985
15.0 Site Paving, Structures & Landscaping		\$472,300
16.0 Utilities on Site		\$646,800
SUBTOTAL SITE CONSTRUCTION (14.0 - 16.0)		\$1,250,085
General Conditions Contractor's Fee	12.5% 5.0%	156,261 70,317
Subtotal		\$1,476,663
Design Contingency Escalation For Construction Start June 2011	10.0% 3.0%	147,666 48,730
Total Construction Cost		\$1,673,059

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

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Phase 1A Sitework

14.0 Site Preparation & Building Demolition

Demolition Remove Existing Paving & Landscaping Demo Existing Structures & Miscellaneous Protection of Existing to Remain Demo Remaining Structure on Cottage Site Allow for Temporary Egress & Access Stagin Barricades & Access	31365 SF 31365 SF 1 LS 750 SF g 1 LS 1650 LF	1.15 1.00 5.00 12.00	\$36,070 31,365 15,000 3,750 25,000 19,800	
Total 14.0 Site Preparation & Building Demolition		-	\$130,985	
15.0 Site Paving, Structures & Landscaping Fine Grading Concrete Paving AC Paving	12200 SF 7200 SF 5000 SF	1.00 8.00 4.50	\$12,200 57,600 22,500	
Landscape & Irrigation Fine Grading Trees Planted Areas Including Irrigation & Soil Prep Landscape Repair @ Offsite Utilities	13150 SF 25 Ea 13150 SF 400 LF	1.00 900.00 9.00 25.00	13,150 22,500 118,350 10,000	
Repairs to Existing Cottage Site Site Structures	4000 SF Allow	7.00	28,000 20,000	
Railings Site Lighting Perimeter Fencing	None 50 Ea	1,300	65,000	
New Enclosure @ Cottage Gates Terrace Enclosure @ Barn Stable Gates Miscellaneous Site Accessories	70 LF 2 Ea 130 LF 2 Pr 1 LS	225.00 3,000 225.00 6,000	15,750 6,000 29,250 12,000 40,000	
Total 15.0 Site Paving, Structures & Landscaping		-	\$472,300	
16.0 Utilities on Site Mechanical Piping Water	600 LF	35.00	\$21.000	
Fire Water Gas	800 LF 200 LF	35.00 35.00	28,000 7,000	
Sanitary Sewer Steam CW CHW	600 LF 800 LF 800 LF 800 LF	45.00 100.00 50.00 70.00	27,000 80,000 40,000 56,000	
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UC RIVERSIDE THE BARN PROJECT	FPHASES 1 & 2	DETAI	LED PROJECT	PROG

Preliminary Budget Estimate

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16.0 Utilities on Site (Continued)				
Pumps	2	Ea	10,800	21,600
Heat Exchangers	2	Ea	20,500	41,000
Valves & Accessories	1	LS		35,000
FDC, PRV & Misc. Connections	1	LS		15,000
Manholes & Valve Covers	8	Ea	2,500	20,000
Connection to Existing	1	LS		25,000
Relocations & Capping	1	LS		20,200
Pads, Curbs & Misc. Support	1	LS		20,000
Trenching	1	LS		20,000
Electrical				
Power				
Primary	200	LF	150.00	30,000
Secondary	500	LF	100.00	50,000
Transformer	1	Ea	20,000	20,000
Telecom				
Conduit & Cable	600	LF	100.00	60,000
Connections to Existing	2	Ea	5,000 =	10,000
Total 16.0 Utilities on Site				\$646,800

University of California, Riverside The Barn Project Preliminary Budget Estimate

Preliminary Budget Estimate	

Barn Dining Renovation Summary		Cost	Cost/SF
1.0 Foundations		\$49,000	\$11.86
2.0 Vertical Structure		116,782	28.26
3.0 Floor & Roof Structure		152 640	36.94
4.0 Exterior Cladding		203.320	49.21
5.0 Roofing & Waterproofing		85,400	20.67
Total Shell (1.0 - 5.0)		\$607,142	\$146.94
6.0 Interior Partitional Dears & Clazing		¢25 200	¢6 10
7.0 Floor Wall & Ceiling Finish		93 561	22 64
			22.04
Total Interiors (6.0 - 7.0)		\$118,861	\$28.77
8.0 Function Equipment & Specialties		\$102,117	\$24.71
9.0 Stairs and Vertical Transportation		0	0.00
Total Equipment and Vertical Transportation (8.0 - 9.0))	\$102,117	\$24.71
10.0 Plumbing Systems		\$43,451	\$10.52
11.0 Heating, Ventilation & Air Conditioning		181,400	43.90
12.0 Electrical Lighting. Power & Communication		173.670	42.03
13.0 Fire Protection Systems		24,305	5.88
Total Mechanical and Electrical (10.0 - 13.0)		\$422,825	\$102.33
Subtotal Building Construction (1.0 - 13.0)		\$1,250,945	\$302.75
14.0 Site Preparation & Building Demolition		\$20.000	\$4.84
15.0 Site Paving, Structures & Landscaping		69,000	16.70
16.0 Utilities on Site		65,000	15.73
Total Site Construction (14.0 - 16.0)		\$154,000	\$37.27
SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0 - 16.0)		\$1,404,945	\$340.02
General Conditions	12.5%	175,618	42.50
Contractor's Fee	5.0%	79,028	19.13
Subtotal		\$1,659,591	\$401.64
Design Contingency	10.0%	165 959	40 16
Escalation For Construction Start June 2012	4.0%	73,022	17.67
Total Construction Cost		\$1 898 572	\$450.49
		φ1,090,07Z	\$433.40

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

Preliminary Budget Estimate

University of California, Riverside The Barn Project Preliminary Budget Estimate

Barn Dining Renovation Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul	None None		
Hazmat Mitigation Allow for Dryrot Repairs Allow for Obstacles & Misc Conditions Foundations/Tie Beams for New Structure	1 LS 1 LS 1 LS 20 CY	450.00 =	25,000 10,000 5,000 9,000
Total 1.0 Foundations			\$49,000
2.0 Vertical Structure Upgrade to Existing Structure New Shear Walls Misc. Rough Carpentry Retaining Walls	4419 SF 1680 SF 1 LS None	18.00 18.00 =	\$79,542 30,240 7,000
Total 2.0 Vertical Structures			\$116,782
3.0 Floor and Roof Structure Slab on Grade Pads & Curbs Roof Structure Upgrade New Eave Framing New Roof Structure	480 SF 200 LF 4900 SF 320 LF 520 SE	18.00 18.00 18.00 75.00 35.00	\$8,640 3,600 88,200 24,000 18 200
Miscellaneous	1 LS	=	10,000
Total 3.0 Floor and Roof Structure			\$152,640
4.0 Exterior Cladding Repair Existing Wall Cladding & Repaint Replace Windows New Exterior Walls Louvers	2880 SF 800 SF 880 SF 1 LS	9.00 85.00 55.00	\$25,920 68,000 48,400 3,000
New Windows Doors - Double - Repair & Reset Existing - Single Roof Hatch Card Readers	40 SF 7 Pr 4 Ea None None	90.00 4,500 1,800	3,600 31,500 7,200
Soffits - Painted Sunshades	300 SF None	19.00	5,700
Miscellaneous Metal & Hardware	1 LS	=	\$203 320
I Ulai 4.0 Exterior Glauding			φ∠03,3∠0

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5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Comp Shingle Skylights Sheet Metal	None 4900 SF None Included	16.00 d Above	\$78,400
Caulking & Sealants Roof Accessories & Miscellaneous	1 LS 1 LS	_	5,000 2,000
Total 5.0 Roofing & Waterproofing		_	\$85,400
6.0 Interior Partitions, Doors & Glazing Partitions Stud & GWB, Painted GWB on Shear Walls CMU Interior Glazing	1200 SF 2600 SF None None	10.00 3.50	\$12,000 9,100
Doors Single Double Roll Down Card Readers	3 Ea None None None	1,400	4,200
Total 6.0 Interior Partitions, Doors & Glazing		_	\$25,300
7.0 Floor, Wall & Ceiling Finishes Floor Finishes Wall Finishes Ceiling Finishes	4419 SF 800 SF 4419 SF	10.00 12.00 9.00	\$44,190 9,600 39,771
Total 7.0 Floor, Wall & Ceiling Finishes			\$93,561
8.0 Function Equipment & Specialties Specialties Toilet Rooms Other Fixture Accessories Other Div 10 Specialties	None None 4419 SF	3.50	15,467
Millwork Stage Construction & Finish Kitchen Equipment Miscellaneous	130 LF 360 SF 1 LS 1 LS	325.00 40.00	42,250 14,400 25,000 5,000
Total 8.0 Function Equipment & Specialties			\$102,117
9.0 Stairs and Vertical Transportation	None		
10.0 Plumbing Systems Toilet Rooms Kitchen Roof Drainage Gas & Miscellaneous Total 10.0 Plumbing	None 2 Fixt 4900 SF 4419 SF	3,700 3.75 4.00 =	\$7,400 18,375 17,676 \$43,451

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11.0 Heating, Ventilation & Air Conditioning Wet Equipment	118		\$10.000
Dry Equipment	1 20		\$10,000
AHU Exhaust Fans	1 Ea 2 Ea	35,000 35,000	35,000 70,000
Ductwork & Accessories Pipework & Accessories Controls	4419 SF 4419 SF 1 L S	6.50 4.00	28,724 17,676 20,000
Total 11.0 Heating, Ventilation & Air Conditioning	1 20	=	\$181,400
TVSS Emergency Power Feeders	4419 SF None None None	4.50	\$19,886
Equipment Power	12 Ea	750.00	9,000
User Convenience Power	30 Ea	350.00	10,500
Lighting	4419 SF	11.00	46,609
Low Voltage Systems Telephone/Data System Master Clock System	24 Ea None	900.00	21,600
Public Address System	4419 SF	2.00	8,838
Security System - Rough In Only	4419 SF	4.00	17,676
Audio Visual Systems - Rough In Only	4419 SF	4.00	17,676
Fire Alarm System	4419 SF	4.50 =	19,880
Total 12.0 Electrical Lighting, Power & Communication			\$173,670
13.0 Fire Protection Systems	4419 SF	5.50	\$24,305
14.0 Site Preparation & Building Demolition Exterior Demolition Interior Demolition	1 LS 1 LS		\$10,000 10,000
Total 14.0 Site Prenaration & Building Demolition		-	\$20.000
15.0 Site Paving, Structures & Landscaping			φ20,000
Fine Grading Paving Landscape & Irrigation	Include Include Include	ed in Phase 1 ed in Phase 1 ed in Phase 1	B Sitework B Sitework B Sitework
Site Structures Trellis Gates	600 SF 4 Pr	75.00 6,000	45,000 24,000
Railings Site Lighting Miscellaneous Site Accessories	None Include Include	ed in Phase 1 ed in Phase 1	B Sitework B Sitework
Total 15.0 Site Paving, Structures & Landscaping			\$69,000

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\$40,000 25,000

\$65,000

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16.0 Utilities on Site Mechanical Utilities Electrical Utilities	Allow Allow
Total 16.0 Utilities on Site	

COST PLAN

East Courtyard Restrooms Summary Page 1 of 4

University of California, Riverside The Barn Project Preliminary Budget Estimate

East Courtyard Restrooms Summary		Cost	Cost/SF
 Foundations Vertical Structure Floor & Roof Structure Exterior Cladding Roofing & Waterproofing 		\$6,500 22,800 28,920 48,180 10,000	\$14.25 50.00 63.42 105.66 21.93
Total Shell (1.0 - 5.0)		\$116,400	\$255.26
 6.0 Interior Partitions, Doors & Glazing 7.0 Floor, Wall & Ceiling Finish Total Interiors (6.0 - 7.0) 		\$7,200 28,936 \$36,136	\$15.79 63.46 \$79.25
8.0 Function Equipment & Specialties 9.0 Stairs and Vertical Transportation		\$7,110 0	\$15.59 0.00
Total Equipment and Vertical Transportation (8	.0 - 9.0)	\$7,110	\$15.59
 10.0 Plumbing Systems 11.0 Heating, Ventilation & Air Conditioning 12.0 Electrical Lighting, Power & Communication 13.0 Fire Protection Systems Total Mechanical and Electrical (10.0 - 13.0)		\$27,500 11,400 17,268 4,104 \$60,272	\$60.31 25.00 37.87 9.00 \$132.18
,			
Subtotal Building Construction (1.0 - 13.0)		\$219,918	\$482.28
14.0 Site Preparation & Building Demolition 15.0 Site Paving, Structures & Landscaping 16.0 Utilities on Site		0 0 40,000	0.00 0.00 87.72
Total Site Construction (14.0 - 16.0)		\$40,000	\$87.72
SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0 -	16.0)	\$259,918	\$570.00
General Conditions Contractor's Fee	12.5% 5.0%	32,490 14,620	71.25 32.06
Subtotal		\$307,028	\$673.31
Design Contingency Escalation For Construction Start June 2012	10.0% 4.0%	30,703 13,509	67.33 29.63
Total Construction Cost		\$351,240	\$770.26

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

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Preliminary Budget Estimate

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East Courtyard Restrooms Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul Imported Fill	20 CY None None	50.00	\$1,000
Hazmat Mitigation Allow for Obstacles & Misc Conditions Foundations/Tie Beams	By Owr 1 LS 10 CY	450.00 _	1,000 4,500
Total 1.0 Foundations			\$6,500
2.0 Vertical Structure Shear Walls Misc. Rough Carpentry & Metals Retaining Walls	1040 SF 1 LS None	20.00	\$20,800 2,000
Total 2.0 Vertical Structures			\$22,800
3.0 Floor and Roof Structure Slab on Grade @ Ramps Pads & Curbs Roof Structure Miscellaneous	456 SF 100 LF 500 SF 1 LS	20.00 18.00 32.00	\$9,120 1,800 16,000 2,000
Total 3.0 Floor and Roof Structure			\$28,920
4.0 Exterior Cladding Exterior Walls - Metal Siding Louvers Mechanical Equipment Screen	1040 SF 1 LS None	42.00	\$43,680 2,500
Doors - Double - Single Roof Hatch Card Readers	None 2 Ea None None		
Soffits Miscellaneous Metal & Hardware	None 1 LS	_	2,000
Total 4.0 Exterior Cladding			\$48,180

East Courtyard Restrooms Page 3 of 4

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5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Comp Shingle Skylights	None 500 SF None	16.00	\$8,000
Sheet Metal Caulking & Sealants Roof Accessories & Miscellaneous	Included 1 LS 1 LS	I Above	1,000 1,000
Total 5.0 Roofing & Waterproofing			\$10,000
6.0 Interior Partitions, Doors & Glazing Partitions Stud & GWB, Painted CMU Interior Glazing	None 360 SF None	20.00	\$7,200
Total 6.0 Interior Partitions, Doors & Glazing	None	_	\$7,200
 7.0 Floor, Wall & Ceiling Finishes Floor Finishes Wall Finishes Ceiling Finishes Total 7.0 Floor, Wall & Ceiling Finishes 	456 SF 1760 SF 456 SF	12.00 11.00 9.00	\$5,472 19,360 4,104 \$28,936
8.0 Function Equipment & Specialties Specialties Toilet Rooms Other Div 10 Specialties	2 Rms 456 SF	2,200 3.75	\$4,400 1,710
Millwork Miscellaneous	None 1 LS		1,000
Total 8.0 Function Equipment & Specialties		_	\$7,110
9.0 Stairs and Vertical Transportation	None		
10.0 Plumbing Systems Toilet Rooms Roof Drainage	8 Fixt 500 SF	3,000 7.00	\$24,000 <u>3,500</u>
Total 10.0 Plumbing			\$27,500
11.0 Heating, Ventilation & Air Conditioning	456 SF	25.00	\$11,400

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Preliminary Budget Estimate

12.0 Electrical Lighting, Power & Communication Primary Power TVSS Emergency Power Feeders	456 SF None None None	6.50	\$2,964
Equipment Power	2 Ea 6 Ea	750.00	1,500
Lighting	456 SF	10.00	4,560
Low Voltage Systems Telephone/Data System Master Clock System Public Address System	1 Ea None 456 SF	900.00 2.00	900 912
Security System - Rough In Only Audio Visual Systems - Rough In Only	456 SF 456 SF	3.00 2.00	1,368 912
Fire Alarm System	456 SF	4.50	2,052
Total 12.0 Electrical Lighting, Power & Communication			\$17,268
13.0 Fire Protection Systems	456 SF	9.00	\$4,104
14.0 Site Preparation & Building Demolition	None		
15.0 Site Paving, Structures & Landscaping Fine Grading Paving Landscape & Irrigation	Include Include Include	d in Phase 1 d in Phase 1 d in Phase 1	3 Sitework 3 Sitework 3 Sitework
Site Structures Trellis	Include	d in Barn Din	ing Estimate
Railings Site Lighting Miscellaneous Site Accessories	None Include Include	d in Phase 1E d in Phase 1E	3 Sitework 3 Sitework
Total 15.0 Site Paving, Structures & Landscaping			\$0
16.0 Utilities on Site Mechanical Utilities Electrical Utilities	Allow Allow		\$20,000 20.000

Total 16.0 Utilities on Site \$40,000

Cost

5/25/2010

Phase 1B Sitework Summary

University of California, Riverside The Barn Project Preliminary Budget Estimate

14.0 Site Preparation & Building Demolition	\$54,909
15.0 Site Paving, Structures & Landscaping	\$69,050
16.0 Utilities on Site	\$35,000
SUBTOTAL SITE CONSTRUCTION (14.0 - 16.0)	\$158,959
General Conditions12.5°Contractor's Fee5.0°	% 19,870 % <u>8,941</u>
Subtotal	\$187,770
Design Contingency10.09Escalation For Construction Start June 20124.09	% 18,777 % <u>8,262</u>
Total Construction Cost	\$214,809

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

COST PLAN

University of California, Riverside The Barn Project Preliminary Budget Estimate

Phase 1B Sitework

14.0 Site Preparation & Building Demolition

Demolition			
Remove Existing Paving & Landscaping Demo Existing Structures & Miscellaneous Protection of Existing to Remain Allow for Temporary Egress & Access Staging Barricades & Access	6830 SF 6830 SF 1 LS 1 LS 350 LF	1.15 1.15 12.00 =	\$7,855 7,855 15,000 20,000 4,200
Fotal 14.0 Site Preparation & Building Demolition			\$54,909
5.0 Site Paving, Structures & Landscaping			
Fine Grading	5830 SF	1.00	\$5,830
Concrete Paving	5830 SF	12.00	69,960
Landscape & Irrigation			
Fine Grading	1000 SF	1.15	1,150
Trees	4 Ea	900.00	3,600
Planted Areas Including Irrigation & Soil Prep	1000 SF	9.00	9,000
Site Structures	None		
Railings	None		
Site Lighting	6 Ea	1,300	7,800
Gates	130 LF 2 Pr	225.00 6.000	29,250
Miscellaneous Site Accessories	1 LS	0,000	20,000
Fotal 15.0 Site Paving, Structures & Landscaping		-	\$69,050
6.0 Utilities on Site	A 11 -		* ~~ ~~~
Nechanical Utilities	Allow		\$20,000 15,000
Fotal 16.0 Litilitica on Sita	741000	=	\$25,000
			φ33,000

KUCR and Performance Stage Summary Page 1 of 5

University of California, Riverside The Barn Project Preliminary Budget Estimate

KUCR & Performance Stage Summary Cost Cost/SF \$55,000 \$11.20 1.0 Foundations 2.0 Vertical Structure 137,900 28.09 62.00 3.0 Floor & Roof Structure 304,442 424,640 86.48 4.0 Exterior Cladding 5.0 Roofing & Waterproofing 128,920 26.26 Total Shell (1.0 - 5.0) \$1,050,902 \$214.03 6.0 Interior Partitions, Doors & Glazing \$189,100 \$38.51 7.0 Floor, Wall & Ceiling Finish 510,953 104.06 \$142.58 Total Interiors (6.0 - 7.0) \$700,053 \$23.63 \$116,031 8.0 Function Equipment & Specialties 9.0 Stairs and Vertical Transportation 0 0.00 Total Equipment and Vertical Transportation (8.0 - 9.0) \$116,031 \$23.63 10.0 Plumbing Systems \$54,863 \$11.17 11.0 Heating, Ventilation & Air Conditioning 146,245 29.79 12.0 Electrical Lighting, Power & Communication 245,971 50.10 13.0 Fire Protection Systems 24,327 4.95 Total Mechanical and Electrical (10.0 - 13.0) \$471,405 \$96.01 Subtotal Building Construction (1.0 - 13.0) \$2,338,390 \$476.25 14.0 Site Preparation & Building Demolition \$15,000 \$3.05 15.0 Site Paving, Structures & Landscaping 21,500 4.38 100,000 16.0 Utilities on Site 20.37 Total Site Construction (14.0 - 16.0) \$136,500 \$27.80 SUBTOTAL BUILDING & SITE CONSTRUCTION (1.0 - 16.0) \$2,474,890 \$504.05 12.5% General Conditions 309,361 63.01 139,213 Contractor's Fee 5.0% 28.35 Subtotal \$2,923,464 \$595.41 Design Contingency 10.0% 292,346 59.54 Escalation for Construction Start June 2013 8.0% 257,265 52.40 **Total Construction Cost** \$3,473,075 \$707.35

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

ST PLAN

Preliminary Budget Estimate

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Preliminary Budget Estimate

University of California, Riverside The Barn Project Preliminary Budget Estimate

KUCR & Performance Stage Estimate

1.0 Foundations Earthwork Cut & Fill Onsite Excavate & Haul Imported Fill	100 CY None None	50.00	\$5,000
Hazmat Mitigation Allow for Obstacles & Misc Conditions Foundations/Tie Beams	By Owr 1 LS 100 CY	ner 450.00 _	5,000 45,000
Total 1.0 Foundations		_	\$55,000
2.0 Vertical Structure Shear Walls - CMU Misc. Rough Carpentry & Metals Retaining Walls	5720 SF 1 LS 400 SF	20.00 40.00 =	\$114,400 7,500 16,000
Total 2.0 Vertical Structures			\$137,900
 3.0 Floor and Roof Structure Slab on Grade Pads & Curbs Roof Structure Stage Covering Miscellaneous Total 3.0 Floor and Roof Structure 	4423 SF 400 LF 5830 SF 975 SF 1 LS	9.00 18.00 32.00 65.00	\$39,807 7,200 186,560 63,375 7,500 \$304,442
4.0 Exterior Cladding Exterior Wall Assembly - Metal Siding Windows Louvers Mechanical Equipment Screen	4420 SF 900 SF 1 LS None	42.00 85.00	\$185,640 76,500 2,500
Doors - Double - Single Roof Hatch Card Readers	4 Pr 5 Ea None None	4,000 1,800	16,000 9,000
Soffits Stage Covering Sunshades Miscellaneous Metal & Hardware	975 SF 975 SF 400 SF 1 LS	25.00 75.00 75.00 =	24,375 73,125 30,000 7,500
Total 4.0 Exterior Cladding			\$424,640

KUCR and Performance Stage Page 3 of 5

5/25/2010

Preliminary Budget Estimate

5.0 Roofing & Waterproofing Waterproofing Roofing & Insulation - Metal Membrane Skylights Sheet Metal Caulking & Sealants Roof Accessories & Miscellaneous	None 3830 SF 2000 SF None Include 1 LS 1 LS	24.00 15.00 d Above	\$91,920 30,000 5,000 2,000
Total 5.0 Roofing & Waterproofing		_	\$128,920
6.0 Interior Partitions, Doors & Glazing Partitions Stud & GWB, Painted GWB on Shear Walls CMU	6100 SF 10000 SF 1000 SF	11.00 3.50 20.00	\$67,100 35,000 20,000
Interior Glazing Doors Single Double Roll Down	200 SF 15 Ea 8 Pr None	90.00 1,400 3,500	18,000 21,000 28,000
Card Readers Total 6.0 Interior Partitions, Doors & Glazing	None	=	\$189,100
 7.0 Floor, Wall & Ceiling Finishes Floor Finishes Wall Finishes Ceiling Finishes Acoustical Treatment Total 7.0 Floor, Wall & Ceiling Finishes 	4423 SF 2000 SF 4423 SF 4423 SF	90.00 10.00 9.00 12.00	\$398,070 20,000 39,807 53,076 \$510,953
8.0 Function Equipment & Specialties Specialties Toilet Rooms Other Fixture Accessories Other Div 10 Specialties Millwork	2 Rms 3 Ea 4423 SF 200 LF	1,000 350.00 3.50 300.00	\$2,000 1,050 15,481 60,000
Storage Shelving Kitchen Equipment Miscellaneous	Allow None 1 LS		30,000
Total 8.0 Function Equipment & Specialties	. 25	=	\$116,031
9.0 Stairs and Vertical Transportation	None		

9.0 Stairs and Vertical Transportation

10.0 Plumbing Systems				
I ollet Rooms Fixtures	4 Fixt	3,500	\$14,000	
Roof Drainage	2 FIX	3,500	21 863	
Gas & Miscellaneous	1 LS	5.75	12,000	
Total 10.0 Plumbing		=	\$54.863	
			<i></i>	
11.0 Heating, Ventilation & Air Conditioning				
Wet Equipment	115		\$10,000	
Dry Equipment	1 20		\$10,000	
AHU	2 Ea	18,000	36,000	
Exhaust Fans	2 Ea	3,200	6,400	
Miscalleous Equipment	1 LS		7,500	
Ductwork & Accessories	4423 SF	5.00	22,115	
Pipework & Accessories - Incl. Radaint	4423 SF	10.00	44,230	
Tate 11.0 Leating Ventilation & Air Conditioning	1 20	=	£146.045	
Total TT.0 Heating, Ventilation & Air Conditioning			φ140,240	
12.0 Electrical Lighting, Power & Communication				
Primary Power	4423 SF	9.00	\$39,807	
TVSS	None			
Emergency Power	None			
Feeders	20 LF	90.00	1,800	
Equipment Power	12 Ea	750.00	9,000	
Lighting	4423 SE	12 00	53 076	
Lighting	1120 01	12.00	00,070	
Low Voltage Systems	55 F o	000.00	40 500	
Telephone/Data System	55 Ea	900.00	49,500	
Public Address System	4423 SF	2 00	8 846	
Security System - Rough In Only	4423 SF	4.00	17,692	
Audio Visual Systems - Rough In Only	4423 SF	2.00	8,846	
Fire Alarm System	4423 SF	4.50 =	19,904	
Total 12.0 Electrical Lighting, Power & Communication			\$245,971	
13.0 Fire Protection Systems	4423 SF	5.50	\$24,327	
14.0 Site Preparation & Building Demolition				
Demolition @ Existing	1 LS		\$7.500	
Site Reconfiguration	1 LS	=	7,500	
Total 14.0 Site Preparation & Building Demolition			\$15,000	
15.0 Site Paving, Structures & Landscaping				
Fine Grading	Include	ed in Phase	2 Sitework	
Paving	Include	ed in Phase	2 Sitework	
Landscape & Irrigation	Include	ed in Phase	2 Sitework	
39		University	of California, I	Riverside

COST PLAN

Preliminary Budget Estimate

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15.0 Site Paving, Structures & Landscaping (Continued) Site Structures				
Ramps to Entries	500 SF	35.00	\$17,500	
Railings @ Ramps	40 LF	100.00	4,000	
Site Lighting Miscellaneous Site Accessories	Includ Includ	ed in Phase 2 ed in Phase 2	2 Sitework 2 Sitework	
Total 15.0 Site Paving, Structures & Landscaping			\$21,500	
16.0 Utilities on Site Mechanical Utilities Electrical Utilities	Allow Allow	=	\$50,000 50,000	
Total 16.0 Utilities on Site			\$100,000	

Cost

5/25/2010

Phase 2 Sitework Summary

ST PLAN

Preliminary Budget Estimate

University of California, Riverside The Barn Project Preliminary Budget Estimate

14.0 Site Preparation & Building Demolition		\$15,000
15.0 Site Paving, Structures & Landscaping		\$969,320
16.0 Utilities on Site		\$60,000
SUBTOTAL SITE CONSTRUCTION (14.0 - 16.0)		\$1,044,320
General Conditions Contractor's Fee	12.5% 5.0%	130,540 58,743
Subtotal		\$1,233,602
Design Contingency Escalation For Construction Start June 2013	10.0% 8.0%	123,360 108,557
Total Construction Cost		\$1,465,520

Notes: Estimate excludes construction contingency, hazardous materials abatement and soft costs.

University of California, Riverside The Barn Project Preliminary Budget Estimate

Phase 2 Sitework

14.0 Site Preparation & Building Demolition Demolition & Miscellaneous Grading	Allow	_	\$15,000
Total 14.0 Site Preparation & Building Demolition		_	\$15,000
15.0 Site Paving, Structures & Landscaping			
Fine Grading	17600 SF	1.15	\$20,240
Concrete Paving	17600 SF	8.00	140,800
Premium for Finish @ Performance Area	7000 SF	4.00	28,000
Landscape & Irrigation			
Fine Grading	2530 SF	1.15	2,910
I rees Diantad Aroos Including Irrigation & Sail Bron	6 Ea	900.00	5,400
Flanted Areas including imgation & Soil Frep	2000 85	9.00	22,770
Site Structures			
Performance Pit	3000 SF	18.00	54,000
Ramps @ North & South	700 SF	22.00	15,400
Trench Drain & Misc Curbs	1000 LF	18.00	18,000
Stage Covering	Includ	led in KUCR	Estimate
Canopy Over Performance Seating Area	3000 SF	120.00	360,000
Mise Curbs & Connect to Existing	1 L S	VIIEI	15 000
while ourbail of opinion to Existing	1 20		10,000
Railings	200 LF	200.00	40,000
Site Lighting	6 Ea	1,300	7,800
Perimeter Fencing	130 LF	200.00	26,000
Closure Gates	3 Ea	50,000	150,000
Allow for Fence Section Miscellaneous Site Accessories	3 Ea 1 I S	6,000	18,000
Miscellarieous Sile Accessories	T LO	=	30,000
Total 15.0 Site Paving, Structures & Landscaping			\$969,320
16.0 Utilities on Site			
Mechanical Utilities	Allow		\$35.000
Electrical Utilities	Allow		25,000
Total 16.0 Utilities on Site			\$60,000

Preliminary Budget Estimate

University of California, Riverside The Barn Project Preliminary Budget Estimate

Alternates

5/25/2010

1.0 Provide Alterations to Sproul Hall Loading Dock				
Demolition of Existing Structure	1	IS		\$25,000
Demolition of Existing Paving & Surf Treatment	9800	SF	3 00	29 400
Miscellaneous Cut & Fill	40	CY	50.00	2 000
Hazmat Mitigation	10	By Owner	00.00	2,000
Allow for Obstacles & Misc Conditions	1			15 000
Allow for Obstables & Mise Conditions		20		10,000
New Dock Structure Alterations	1500	SF	50.00	75 000
New Concrete Paving	2080	SF	10.00	20,800
New AC Paving	3520		5.00	17 600
Alterations to Existing Poodwov	3200		6.00	10,200
New Londoconing & Irrigation	1000	01 0E	0.00	9,200
New Trees	1000	ог Го	1 000	12,000
New Trees	12	Ed	1,000	12,000
Litility Polocations & Connections	1	19		50,000
Site Lighting	1			35,000
Sile Lighting Work Ippido Existing Building		LO Nono		25,000
	4	None		00.000
Misselleneous Other Work	1			20,000
		Allow	:	15,000
Subtotal 1.0 Alterations to Sproul Hall				\$334,000
Contractor Overheads				113,011
Total 1.0				\$447 011
				φ <i>ι</i> π,σ τι
2.0 Provide Onsite Chiller and Boiler in lieu of Campus	Connec	tion		
Delete Steam	(800)	LF	100.00	(\$80,000)
Delete CW	(800)	I F	50 00	(40,000)
Delete CHW	(800)	LF	75.00	(60,000)
Delete Misc Trenching Premiums	(000)	1.5	10.00	(20,000)
Delete Manholes	(4)	Eo	2 500	(10,000)
Delete Mainoles	(-)	La	2,000	(10,000)
Delete Valves & Connections	1	IS		(30,000)
Delete Heat Exchangers	(2)	Fa	20 500	(41,000)
Delete Landscape Repairs	(400)		25,000	(10,000)
Delete Landscape Repairs	(-00)		20.00	(10,000)
Chillers	2	Fa	50 000	100 000
Boilers	2	Fa	16,500	33,000
Valves & Piping	1	LS	. 0,000	25,000
Building/Pad Area to Support Equipment	800	SF	85.00	68,000
Miscellaneous Other Work	000	Allow	00.00	15 000
			:	.0,000
Subtotal 2.0 Onsite Chiller & Boiler in lieu of Campus C	Connectio	on		(\$50,000)
Contractor Overbacida				(40.040)
Contractor Overneads			:	(16,918)
Total 2.0				(\$66,918)
FERNAU & HARTMAN ARCHITECTS

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Preliminary Budget Estimate

3.0 Provide Audio Visual Equipment as Described in DPP Report Interior Stage @ Barn Dining 1 LS 0utdoor Stage @ KUCR 1 Event Space @ Barn Stable 1 LS			\$275,000 30,000 25,000
Subtotal 3.0 Provide Audio Visual Equipment			\$330,000
Contractor Overheads		_	112,731
Total 3.0			\$442,731
4.0 Provide Emergency Power for Kitchen Addition & Diesel Generator & Day Tank Three Day Storage Tank Emergency Barrels Feeders Auto Transfer Switches Acoustic Enclosure	KUCR 1 Ea 1 LS 2 Ea 250 LF 2 Ea 300 SF	150,000 3,500 100.00 12,500 150.00 _	\$150,000 60,000 7,000 25,000 25,000 45,000
Subtotal 4.0 Provide Emergency Power for Kitchen 8	& KUCR		\$312,000
Contractor Overheads		=	106,582
Total 4.0			\$418,582
5.0 Provide Construction Management Preconstructi Allow	on Services		\$250,000
6.0 Provide Enhanced Commissioning/3rd Party Cor Allow	nmissioning		\$75,000
7.0 Allow for Patching & Painting Barn Theater Allow			\$15,000
8.0 Allow for Security Devices Cameras Intrusion Detection Card Keys	12 Ea 20 Ea 12 Ea	5,000 500.00 3,000 =	\$60,000 10,000 36,000
Subtotal 8.0 Allow for Security Devices			\$106,000
Contractor Overheads		=	36,211
Total 8.0			\$142.211

Alternates Page 3 of 2

COST PLAN

Preliminary Budget Estimate

Alowances Included in the Estimate

1.0 Performance Space @ KUCR Building			
Interior Backstage Space			
Program Area	110 SF	504.05	\$55,446
Exterior Stage			
Foundations	6 CY	450.00	2,700
Stage Construction	975 SF	65.00	63,375
Roof Construction	975 SF	75.00	73,125
Soffits	850 SF	25.00	21,250
Roofing	975 SF	24.00	23,400
Fire Sprinklers	975 SF	3.00	2,925
Electrical Rough-In	975 SF	3.00	2,925
Subtotal 1.0 Performance Space @ KUCR Building		=	\$245,146
Contractor Overheads		=	83,744
Total 1.0			\$328,890

VI. IMPLEMENTATION

The initial project schedule and implementation diagrams were developed in close coordination with the Project Management Team and the Steering Team. Retaining food service operation during the academic year has been a key concern in developing the schedule.

IMPLEMENTATION

Project Schedule



NOTE: The Project Schedule is shown monthly and is based on a yet-to-be-determined start date. Durations of tasks are shown in weeks.

PHASING & IMPLEMENTATION STRATEGY: PHASE 1A

PHASE 1A

Initial work in Phase 1 will include items identified as having potential schedule complications or other risks. These include: relocation of the Barn Stable and the utility work. Ideally this work would begin before Summer 2011. This phase will also include: the Kitchen Addition, the Cottage, the Loading Dock Area, and the Drive Aisle along West Campus Drive.

The Kitchen Addition should be up and running before the end of summer to provide a functioning kitchen during the school year. The Kitchen Addition will require at least a 12-month window for completion. Demolition of the current University Club meeting space can also occur in Phase 1A if necessary.



PHASING & IMPLEMENTATION STRATEGY: PHASE 1B

PHASE 1B

Phase 1B will include: Barn Dining, the East Courtyard, and the Restrooms east of The Barn.

During the school year when Barn Dining is under construction, the Barn Stable, Cottage, and related seating areas can be used for dining and be served by the Kitchen Addition.



PHASING & IMPLEMENTATION STRATEGY: PHASE 2

PHASE 2

Phase 2 will include: the West Courtyard, Outdoor Stage, and KUCR.

The construction fence at the west side of The Barn will be close to the west side of the building, allowing for exiting only. This approach will provide a clean division between Phases 1 and 2. It was determined that construction activities during this phase would be too disruptive to allow for outdoor dining at the West Courtyard. Therefore, no seating in the West Courtyard will be provided during Phase 2.



PHASE 3

PHASE 3

Phase 3 is assumed to be a future phase that will include the Barn Theatre renovation and addition.

The Barn Project Phases 1 & 2 DPP did not review the program for the Barn Theatre in depth, however phasing and implementation was considered. A challenge with the implementation of Phase 3 is that access to this area will be restricted by new and renovated structures once Phase 2 is complete. The Composite Site Organization Plan layout for KUCR was greatly influenced by the need for construction access and staging area for Phase 3 work.



VII. APPENDIX

A record of the decision making process is provided that includes visual materials, the meeting notes, key correspondence, and other materials.

APPENDICIES INDEX

Campus Supporting Documents

Meeting Notes, Action Items, and/or Site Plan Alternatives presented at:

Workshop #1	February 5, 2010
Workshop #2	February 26, 2010
KUCR Conference Call	March 11, 2010
Workshop #3	March 19, 2010
Performances Issues Conference Call	April 5, 2010
DRB Presentation	April 6, 2010
Workshop #4	April 16, 2010

Correspondence

Campus Supporting Documents

The following documents, provided by UCR, were used or referred to in preparation of the 2010 Barn Project Phases 1 & 2 DPP:

August 1991	EIR Humanities & Social Sciences August 1, 2009		ADA Site Assessment Report: UCR P5338 The Barn	
June 16, 1993	Historic Resource Inventory, The Barn Theater and The	August 1, 2009	ADA Site Evaluation Cost Report	
November 2000	Barn Group Tenant Improvement for the Barn	August 3, 2009	ADA Site Assessment Report: UCR P5251 Theater Workshop	
June 2002	East Campus Infrastructure DPP	August 3, 2009	ADA Site Assessment Report: UCR P5251 Theater Workshop Cost Report	
March 15, 2003	Asbestos and Lead Information for the Barn Complex	August 9, 2009	ADA Site Assessment Report: UCR Lot 16	
November 2005	Long Range Development Plan	August 9, 2009	ADA Site Assessment Report: UCR Lot 16 Cost Report	
May 2006	Fast/Southeast Campus Area Study	October 2009	Barn Area Study	
May 24, 2006	Communications Infrastructure Planning Guidelines	October 5, 2009	Existing Building Information Summaries	
2007	Compus Design Guidelines	October 5, 2009	Existing Space Inventory, Barn Group	
2007	Compus Aggregate Master Planning Study	October 5, 2009	UCR Vision and Goals	
2008 July 2007	com Numbering Standards	November 7, 2009	ADA Site Assessment Report: UCR Lot P4	
July 2007	Facilities Management System CAD Standards	November 7, 2009	ADA Site Assessment Report: UCR Lot P4 Cost Report	
January 4, 2008	Campus Sign Program	November 16, 2009	Dining Master Planning Study	
	LICE West Compus Creducts & Professional Center DPR	February 19, 2010	Asbestos and Lead Based Paint Survey: Barn Complex	
April 1, 2008	Presentation	March 2, 2010	GeoVision: Site Map with Geophysical Interpretation	
August 2008	Room Use Codes	April 2010	Historic Resources Assessment (title page and Executive	
Fall 2008	Room Use Codes and Definitions		Summary, page i., of which are included on the following page of this DPP)	
Februrary 2, 2009	UCR Student Recreation Center Expansion DRB Presentation	Soils Report, Humanities & Social Sciences Humanities & Social Science Drawings		
April 2009	Sustainability Action Plan – DRAFT	AutoCAD Data Delivery for UCR Planning & Design Projects		

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Campus Supporting Documents

HISTORIC RESOURCES ASSESSMENT

THE BARN GROUP AND UNIVERSITY COTTAGE UNIVERSITY OF CALIFORNIA, RIVERSIDE

CITY OF RIVERSIDE

RIVERSIDE COUNTY, CALIFORNIA

Prepared for:

The University of California, Riverside Office of Design and Construction Tricia D. Thrasher, ASLA, LEED AP Principal Environmental Project Manager 3615-A Canyon Crest Drive Riverside, California 92521-0322

Prepared by:

Casey Tibbet, M.A., and Elisa Bechtel LSA Associates, Inc. 1500 Iowa Avenue, Suite 200 Riverside, California 92507

LSA Project No. UCR1001

LSA

April 2010

EXECUTIVE SUMMARY

LSA Associates, Inc. (LSA) conducted a historic resources assessment for the Barn Group and University Cottage located on the University of California, Riverside (UCR) campus in the City of Riverside, Riverside County, California. The assessment included a review of previous reports, archival research, a field survey, and this report. The project area is currently developed with the Barn Group (the Barn, the Barn Theater, and the Barn Stable; 33-7877), the University Cottage (33-7878), and two sheds. UCR, as Lead Agency for the project, required this study in support of both the project planning and design process and the environmental review process to comply with the California Environmental Quality Act (CEQA).

The purpose of the study is to provide UCR with the necessary information and analysis to determine whether the proposed project would cause substantial adverse changes to any historical resources that may exist in or around the project area, as mandated by CEQA. In addition, UCR will utilize the historic resources assessment to inform the planning and design of the Barn Project. In order to identify and evaluate such resources, LSA conducted historical background research and carried out an intensive-level field survey.

Through the various avenues of research, this study did not encounter any "historical resources," as defined by CEQA, within the project area. Therefore, LSA recommends to UCR a finding of *No Impact* regarding cultural resources. No further cultural resources investigation and no mitigation measures are recommended for the project unless development plans undergo such changes as to include areas not covered by this study. However, because the buildings are associated with the earliest history of campus, specifically the Citrus Experiment Station, and over time have become an integral part of campus life, it is recommended that they be given special consideration in project planning and design. This could include keeping the buildings together as a group and preserving the rustic feel of the buildings by retaining features that contribute to their historic character. Some of these features include the exterior board-and-batten style siding (Barn Group), barn-style doors, the decorative details on the north and south ends of the Barn, historic-period windows, the horizontal wood siding (University Cottage), and the cottage's arched entry area.

If buried cultural materials are encountered during earthmoving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

In the event human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD will have the opportunity to offer recommendations for the disposition of the remains.

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Workshop #1: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: February 23, 2010

MEETING NOTES

Project Management Team Meeting #1

PROJECT:	DPP – UCR Barn Project Phases 1 & 2
TIME/DATE:	8:30 AM – 9:00 AM, February 5, 2010
LOCATION:	Capital and Physical Planning Offices

ATTENDEES:

ATTENDEED.		
Project Manage	ement Team	
	Don Caskey	Associate Vice Chancellor, Campus Architect
	Kieron Brunelle	Director, Capital and Physical Planning
	Richard Racicot	Assistant Vice Chancellor, Design and Construction
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
	Susan Marshburn	Associate Director of Housing Services
Consultant Tea	im	
	Richard Fernau	Design Principal, Fernau & Hartman Architects
	Laura Hartman	Principal in Charge, Fernau & Hartman Architects
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Ron Lutsko	Landscape Architect, Lutsko Associates
	Larry Lanier	Food Service Consultant, Laschober + Sovich

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

ACTION BY:	ITEM:
SM	 Differences between the Questionnaire Responses: The majority of the responses to the F&H questionnaire have indicated a request for additional square footage as compared to the 2009 Barn Area Study (BAS). The consultant team's role for the Workshop #1 Interviews is primarily to listen to input from building users, not to question square footage changes. That will be addressed by the PMT. Dining has identified new needs and is currently engaged in a Dining Study Report which is not yet complete, but will be sent to the Consultant Team when available. Action: Susan Marshburn will ask Dining Services to provide the draft Dining Study for the Barn, and once available the completed Dining Study report.
	 "Barn Annex": There was a reminder that the building known as the "Barn Annex" should not be referred to as the University Club.

DPP - UCR Barn Project Phases 1 & 2 – Meeting Notes from Workshop #1, 2/5/10 2/23/10 Page 1 of 2

Workshop #1: Meeting Notes

ACTION DT.	
JN	 Planning Studies: a. Historical Resources Inventory: There is an RFP out for an updated Historical Resources Inventory for the Barn Group. For now the Consultant Team will use the 1993 Historical Inventory Report that was prepared for
	construction of the Humanities Building. The target date for this study to be complete is February 26 th to coincide with Workshop #2. Action: Jacqueline Norman will provide status on the report at the next meeting.
Л	 b. Utility Survey: An underground scan of the site utilities will be done shortly. The original target date for this information is February 26th to coincide with Workshop #2. Confirmation of the schedule for completing this study is needed. In the meantime, any information regarding existing utilities will be sent to the Consultant Team. Mike Terry is the representative for the Physical Plant. Action: Jacqueline Norman will provide status of the utility surveys at the next meeting.
	4. Sproul Loading Dock: It was noted that the Consultant Team is reviewing the Sproul Loading Dock as part of their DPP contract, but it is not currently included in Phase 1 or 2.

ACTION BY:

Workshop #1: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: February 23, 2010

MEETING NOTES

Workshop #1: Program Review and Refinement; Site Plan Analysis; Establish Project Goals

PROJECT:DPP – UCR Barn Project Phases 1 & 2TIME/DATE:9:10 AM – 4:30 PM, February 5, 2010LOCATION:Capital and Physical Planning Offices, Bannockburn, J-102

ATTENDEES:

Project Management Team

ejeet manage		
	Don Caskey	Associate Vice Chancellor, Campus Architect
	Kieron Brunelle	Director, Capital and Physical Planning
	Richard Racicot	Assistant Vice Chancellor, Design and Construction
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
	Susan Marshburn	Associate Director of Housing Services
Steering Comm	ittee	····
J	Andy Plumley	Assistant Vice Chancellor, Auxiliary Services
	Susan Marshburn	Associate Director of Housing Services
	Chervl Garner	Director of Dinning Services
	Nita Bullock	Directory Physical Planning, Campus Landscape Architect
	Professor John Ganmin	Faculty Representative. Academic Senate
Campus Repres	sentatives	· ····································
	Tim Gable	Communications
	Scott Corrin	Campus Fire Marshal
	Mike Terry	Physical Plant
	Mike Delo	Transportation and Parking Services
	Andy Steward	Transportation and Parking Services
	John Freese	UCR Police
	Suzanne Trotta	Services for Students with Disabilities
	Louis Vandenberg	KUCR General Manager
	Trish D. Thrasher	Office of Design and Construction
	Connie Young	University Club
	Paul Richardson	Arts Facilities Manager CHASS
	Nathaniel Jones	Assistant Dean, CHASS
	Berent Pippert	Campus Space Manager, Capital and Physical Planning
	Israel Fletes	Multimedia Technologies
Consultant Tear	n	C C
	Richard Fernau	Design Principal, Fernau & Hartman Architects
	Laura Hartman	Principal in Charge, Fernau & Hartman Architects
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Ron Lutsko	Landscape Architect, Lutsko Associates
	Larry Lanier	Food Service Consultant, Laschober + Sovich

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

DPP - UCR Barn Project Phases 1 & 2 – Meeting Notes from Workshop #1, 2/5/10 2/23/10 Page 1 of 6

ITEM:

Workshop #1: Meeting Notes

	1.	Drawings Presented - Nine 24x36 boards: BAS Program Area Matrix Sheets for each building, BAS Site Analysis, Site Organization Options A, B and C.
	2.	2009 Barn Area Study: Nita Bullock made a presentation summarizing the 2009 Barn Area Study and provided suggestions for how the Consultant Team could use it as the foundation for the DPP. The study included discussions with multiple stakeholders and developed a master plan that will serve as a strong baseline for moving forward. Following the presentation it was noted that the proposed phasing of the project has changed since the 2009 BAS was completed. For the DPP, phasing is now proposed as follows: Phase 1 includes the Barn Annex, and KUCR; Phase 2 includes the Barn Dining, the Cottage, and the Barn Kitchen.
	3.	Goal For Project: As defined by the BAS the goal for the Barn Project is to become a "Unique Dining and Entertainment Center."
	4.	Additional Goals: To expand food service by about 3 times the current level and to expand entertainment to have a full schedule throughout the week.
JN	5.	Historical Status: Per the 1993 Historical Resources Inventory, the buildings are not currently designated as having historic status, however the group of buildings as a whole has the potential at a local or regional level to have historical status as a campus cultural resource. There is currently an RFP to prepare an updated Historical Resources Inventory for the Barn Group. This study is needed as soon as possible to support the DPP process. In general the PMT and SC want to maintain the character of the existing buildings without the formality of a historical designation. Action: Jacqueline Norman will provide the Historical Resources Inventory report to F&H as soon as it is available.
	6.	 Landscape: a. Clearance for Service and Fire Vehicles: 20'-0" wide by 13'-6" high b. Suggested Plant Types: Do not use Eucalyptus. Drought tolerant species are preferred. The Barn Project is part of a special agricultural planting area. Suggested plantings include: Citrus, Avocado, and herb gardens. Large canopy trees and arbors for shade are encouraged.
RR	7.	 Fire Protection Issues: Interview with Campus Fire Marshal, Scott Corrin a. Historical Status: If the buildings are not given historical status, there will be different restrictions for fire protection, design, and new construction in general. b. Fire Protection Systems: All buildings will need to have sprinklers and early fire alarm ADA notification systems. c.Bringing Project up to Current Code Requirements: There was some discussion about whether to consider the Barn Group as a single complex or as a collection of individual buildings, separated by "imaginary property lines." Further clarification / direction is needed. The project will use the most recent building codes. Action: Richard Racicot will review fire protection issues with Campus Fire Marshall and will report back to the Committee. d. Drawing Review: If the project is designated with historic status it will be reviewed by both the State Fire Marshall and local fire authorities. If the project is not designated with historic status it will be reviewed by just the State Fire

DPP - UCR Barn Project Phases 1 & 2 - Meeting Notes from Workshop #1, 2/5/10 2/23/10

ACTION BY:	ITEM:	
	e.	Marshall. If Alternate Means are requested then it will go to the local fire authorities for review, which could cause delays. Fire Truck Access: Scott Corrin considers the fire lane access along the Sproul Hall to be "existing non-conforming." He also determined that a fire truck turnaround is not needed and in the event that a service turnaround is provided the fire truck will use it on an interim basis, until the fire lane through to the Carillion Mall is completed as part of a separate future project.
JH	 8. Phys a. Ac b. c.A d. e. 	 sical Plant: Interview with Physical Plant representatives, Mike Terry Truck Turnaround: A study is being conducted on the refuse trucks, which are the largest used in the Sproul Loading Dock, to determine if the vehicles will require a 48 foot radius (the City of Riverside Standard). Backing up the trucks to West Campus Drive presents safety concerns. tion: Jon Harvey will follow up with Mike Terry to obtain truck turning radius. Sproul Loading Dock: One consideration for the Loading Dock as proposed in the BAS is coordination with the existing infrastructure, including stand pipes, in this area. Fumes and noise in the tight space between the two buildings was also brought up as a concern. This could be managed by scheduling refuse pick ups earlier in the morning before classes start. Separations: For safety reasons the pedestrian area should be separated from the vehicular areas with a physical barrier. A landscape buffer is suggested in the BAS. Bicycles: The bicycle lane is currently grouped with the vehicle lane. This is not ideal. The separation of pedestrians from bikes and bikes from other vehicles at UCD was referred to as a possible model.
	9. KUC a. b. c.C d. e. f. g. h.	 R: Interview with the General Manger of KUCR, Louis Vandenberg Introduction: Louis Vandenberg gave a brief introduction to the history, special issues and needs of KUCR. Significance: This will be the first UC that has built a facility especially to house a campus radio station. Concerns: Safety is a very important concern, especially with KUCR being moved to a building adjacent to outdoor entertainment venue where alcohol will be served. Stage: The stage will provide opportunities to air live interviews, full band performances and other lower scale events. Tower: KUCR would like to reuse the existing (original) tower, which has significance for the radio station's history and is also the correct height for line of sight to the Box Spring Mountains. It is not possible to mount the tower on top of a building. Misc: The radio station will need a kitchenette (addition to the BAS). Archive: Making the archive visible while maintaining security is appealing. The archive is a "fantastic collection of very rare stuff." New Building vs. Existing: Having KUCR in the Barn Area is the "best idea ever" for relocation. A new building would allow for easier customization to the "deep, long history of this place." In either case the production studios should be located in a new building.

DPP - UCR Barn Project Phases 1 & 2 – Meeting Notes from Workshop #1, 2/5/10 2/23/10 Page 3 of 6

Workshop #1: Meeting Notes

ITEM

Workshop #1: Meeting Notes

ACTION DT.	
	 Barn Annex: Interview with Dining and Food Services and University Club representatives: Andy Plumley, Susan Marshburn, Cheryl Garner, and Connie Young University Club History: Connie Young provided a brief history and special considerations for the University Club. Partnership: The University Club will rent space in the Barn Annex from Dining and Food Services, and the University Club will continue to provide a liquor license. Liquor License: The University Club holds a liquor license which allows the Barn to serve Beer and Wine, and the Club area to have a full bar. Kitchen: The Annex will have a finishing kitchen only. Outdoor Area: A dedicated outdoor area for the Barn Annex is desirable. Interior Room Changes: Instead of a Banquet Room and separate Bar as proposed in the BAS, there will be one large room that should feel comfortable when only a portion is used. The bar will be able to open and close into this room with some type of moveable screen or shutters.
LL	 Barn Dining: Interview with Dining and Food Services representatives Outdoor Spaces: A variety of spaces and seating is desired. The west courtyard will be the loud entertainment area, and the east will be the more formal dining area. Heaters and misters are also desirable. Food Service Concept: The food service concept was discussed at length. Larry Lanier will follow up with Cheryl Garner to better determine needs and possible solutions. Action: Larry Lanier will review and update food service program with Cheryl. Character: The Barn should have a different character than the HUB, which is identified as having "a more slick food court feel." Overall the project should showcase the agricultural heritage of UCR through various means including a farmer's market, and use of citrus and herb gardens. Seating (change from BAS): 188 outdoor seats, and 108 indoor seats are required. A variety of seating options including built-in to reduce the need to move furniture for events. Kitchen: The Barn will support catering and satellite operations. ADA: A recent draft ADA study for the Barn identified many issues of noncompliance including that the truss buttresses will require cane detectable barriers which will affect the look and seating capacity around the buttresses.
	 ADA compliance will be carefully reviewed during the design phase. A final ADA Transition Plan for the existing Barn complex is being prepared; PMT will send to consultant team when completed. Action: Jon Harvey will send Barn Theater ADA Report to F&H, and once available, will provide final ADA Transition Plan.

ACTION BY:	ITEM:
	 12. Barn Theater: Interview with CHASS representatives a. General: The Barn Theater is not part of Phases 1 or 2 as there is no funding identified for this project
	 b. Rehearsal Space: CHASS would like to be able to join two rehearsal spaces into one. c. Stage: Sharing a stage is accentable.
	 d. Box Office: A box office for charging admissions for performances is desirable and could be shared with the Barn.
JH	e. Confirm Area Sizes: The PMT will confirm the space requirements of CHASS for the interior rehearsal space and storage.
	Action: Jon Harvey will follow up with Nate Jones (CHASS), who will provide comments on the Barn Theater program presented in the BAS.
	 Site Analysis: The Consultant Team gave a brief presentation of the issues and questions raised by the site plan as proposed in the BAS. Following this presentation Mike Delo from TAPs brought up the following issues: a. Cross Walk: The cross walk linking Lot 4 to Barn Group is in a poor location, consider relocating as part of project. b. Bus Pull Out: An additional bus pull out is needed on the opposite side of West Campus Drive from the Barn. c. ADA Parking: Disabled parking by the Barn Group is a priority. d. Special Student Services: Need to maintain the existing 2 parking spaces for Special Student Services.
	 e. Bike Parking: Location of the bike parking is another consideration. The LRDP and the Multi-Modal Transportation Management Analysis suggests bike corrals at the periphery of the Carillon Mall. One is proposed at the northwest corner of Sproul on the south side of the Mall walkway.
LH & SL	14. Cost: Based on a very brief initial review of costs in the 2009 BAS, that was done by F&H in preparation for the interview, the budget seems tight. To meet the budget it is important to keep the buildings the same size or smaller than the BAS. The Consultant Team will review the preferred scheme in relation to the current budget. Action: Laura Hartman will review the 2009 BAS estimate with Scott Lewis (Cost Estimator) and provide comments on the current construction budget.

Workshop #1: Meeting Notes

Workshop #1: Meeting Notes

ACTION DT.	ITEM:
F&H	 15. Site Organization Options Discussion: The Consultant Team presented three options for the site plan that tested various issues: Site Organization Option A, "Agricultural History at the Courtyard," would leave the Barn buildings around the Western Courtyard. Site Organization Option B, "Agricultural History at the Barn Walk", relocates the Barn Stable to serve as the Barn Annex and houses KUCR in a new building. Site Organization C, "Larger Courtyard" is similar to Option B, but pushes the new KUCR building towards West Campus Drive to widen the Western Courtyard. Site Organization Option B was chosen as the best for developing a composite plan that will be studied further to address the following modifications: Cottage: Study shifting the Cottage to the North to avoid the utilities at the Eucalyptus Walk. Barn Annex: Study shifting the historic portion of the Barn Annex (relocated Barn Stable) to the south. Bathrooms: Locate the East Courtyard bathrooms along the Barn Walk and review incorporating them into a trellis structure to reduce visual impact. KUCR: Review concepts for a new two-story building to house the radio station and as a backdrop to a single shared stage. Barn Loading Dock: Study options for reducing the visual impact of the loading dock.
WL	 16. Next Steps: a. Area Study Comparison: The Consultant Team will prepare an Area Study Comparison of the BAS and the current proposal. Action: Jason Wilkinson will furnish a Project Area Summary with comparison table of preliminary program and the 2009 BAS. b. Studies: The PMT will expedite additional information for the Consultant Team including the ADA report, Historic Resources Inventory, and underground utility survey. As-builts will be required as the project moves into SD.
RR	 c. Site Survey: Cost of a site survey will be investigated. Action: Richard Racicot will identify the cost of the site survey for consideration. d. Site Plans: The existing road will be shown as the basis for the site plans in the DPP. The future location of the road, as shown in the 2009 BAS, will be shown "dashed" in the DPP. e. KUCR: The Consultant Team will contact Louis Vandenberg to discuss options for housing KUCR in a new building. f. 2/11 Draft Materials from F&H: The Consultant Team will send out draft materials including a list of questions from the sub-consultants regarding building systems and sustainability, and the draft room data sheets. g. 2/18 Responses to Draft Materials: UCR will return comments and responses to the draft materials sent on 2/11.

Workshop #1: Action Items

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2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: February 23, 2010

ACTION ITEM STATUS TABLE

PROJECT: DPP – UCR Barn Project Phases 1 & 2

The Action Item Status Table is meant to summarize the action items raised at the meeting(s) listed above and responsible party for each action item. If they differ from your recollection, please contact Fernau & Hartman immediately.

No.	WS Date	Action By	Issue, Notes & Comments	Status
1.01	02/05/10	SM	PMT: Susan Marshburn will ask Dining Services to provide the draft Dining Study for the Barn, and once available the completed Dining Study report. 02/09/10 – spread sheet of draft Dining Study provided to F&H, completed Dining Study report still pending	
1.02	02/05/10	JN	PMT: Jacqueline Norman will provide the Historical Resources Inventory report to F&H as soon as it is available.	
1.03	02/05/10	JN	PMT: Jacqueline Norman will provide status of the utility surveys at the next meeting.	
1.04	02/05/10	RR	PMT: Richard Racicot will review fire protection issues with Campus Fire Marshall and will report back to the Committee	
1.05	02/05/10	RR	PMT: Richard Racicot will investigate the cost of a site survey.	
1.06	02/05/10	JH	PMT: Jon Harvey will follow up with Mike Terry to obtain truck turning radius. 02/23/10. Information request sent 02-12-10 via email.	
1.07	02/05/10	LL	F&H: Larry Lanier will review and update food service program with Cheryl.	
1.08	02/05/10	JH	PMT: Jon Harvey will send Barn Theater ADA Report to F&H, and once available, will provide final ADA Transition Plan. 2/10/10 – Barn Theater report sent to F&H, final ADA Transition Plan is pending.	

DPP - UCR Barn Project Phases 1 & 2 – Action Item Status Table 2/23/10 Page 1 of 2

Workshop #1: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
1.09	02/05/10	JH	PMT: Jon Harvey will follow up with Nate Jones (CHASS), who will provide comments on the Barn Theater program presented in the BAS. 02/17/10. Nate will provide comments no later than March 15.	
1.10	02/05/10	F&H: LH, SL	F&H: Laura Hartman will review the 2009 BAS estimate with Scott Lewis (Cost Estimator) and provide comments on the current construction budget.	
1.11	02/05/10	F&H	F&H will prepare a composite plan that addresses the site organization issues.	
1.12	02/05/10	JW	F&H: Jason Wilkinson will furnish a Project Area Summary with comparison table of preliminary program and the 2009 BAS. 02/18/10 – JW sent program area comparison summary	Complete
1.13	02/05/10	F&H	F&H: Jason Wilkinson will send out draft materials including a list of questions from the sub-consultants regarding building systems and sustainability, and the draft room data sheets. 02/12/10 – JW sent draft materials to JH. Per JH room data sheets will be distributed for comment once project spaces and allowances as shown in Project Area Summary are confirmed.	
1.14	02/05/10	JH	Jon Harvey will return comments and responses to the draft materials sent on 2/11. 02/17/10 – Sustainability and LEED issues will be discussed at WS-2. Balance of questions will be addressed by Subsurface Utility Investigation, and the Utility Services Connection Points review.	
1.15	02/05/10	RF	F&H: Richard Fernau will contact Louis Vandenberg to discuss options for housing KUCR in a new building. 02/16/10 – RF followed up with Louis by phone	Complete
1.16	02/05/10	JW	F&H: Jason Wilkinson will show the existing road as the basis for the site plans in the DPP. The future location of the road, as shown in the 2009 BAS, will be shown "dashed" in the DPP.	

DPP - UCR Barn Project Phases 1 & 2 – Action Item Status Table 2/23/10 Page 2 of 2

Workshop #1: Site Plan Alternatives



SITE ORGANIZATION - OPTION A

DPP - UCR BARN PROJECT PHASES 1 & 2 WORKSHOP #1, 02/05/10 FERNAU & HARTMAN ARCHITECTS, INC

Workshop #1: Site Plan Alternatives



DPP - UCR BARN PROJECT PHASES 1 & 2 WORKSHOP #1, 02/05/10 FERNAU & HARTMAN ARCHITECTS, INC

Workshop #1: Site Plan Alternatives



DPP - UCR BARN PROJECT PHASES 1 & 2 WORKSHOP #1, 02/05/10 FERNAU & HARTMAN ARCHITECTS, INC

Workshop #2: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: March 15, 2010

MEETING NOTES

Project Management Team Meeting #2

PROJECT:	DPP – UCR Barn Project Phases 1 & 2
TIME/DATE:	9:00 AM – 9:30 AM, February 26, 2010
OCATION:	Capital and Physical Planning Offices

ATTENDEES:

Project Managem	ient Team	
	Don Caskey	Associate Vice Chancellor, Campus Architect
	Kieron Brunelle	Director, Capital and Physical Planning
	Richard Racicot	Assistant Vice Chancellor, Design and Construction
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Auxiliary Services
:	Susan Marshburn	Associate Director of Housing Services
Consultant Team		
	Laura Hartman	Principal in Charge, Fernau & Hartman Architects
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Bry Sarte	Civil Engineer, Sherwood Engineers
	John Rozeluk	Mechanical /Electrical / Plumbing Engineers, Timmons Design Engineers
	Larry Lanier	Food Service Consultant, Laschober + Sovich

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

ACTION BY:	ITEM:
	 Meeting Notes / Action Items PMT to provide review of the meeting notes and action items within four days after receiving the draft from F&H. Action Items that are complete will be moved off the list of current Action Items List and kept as part of the record for future reference.
JN	 Review Studies: a. Historical Resources Inventory (1.02): A firm has been selected to perform the Historical Resources Inventory for the Barn Group. A schedule for the completion of this work will be provided by the Lacqueline Norman once the
	contract is finalized. The scope of the work is limited to the historic review and does not include a review of the building condition as proposed by several RFP respondents.
JN	b. Utility Survey (1.03): An underground scan of the site utilities has been completed. The data is being transferred into a CAD format and will be reviewed by the Physical Plant. Jacqueline Norman will provide the completed underground utility survey drawings as soon they are available.

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Meeting Notes from Workshop #2, 2/26/10 3/15/10 Page 1 of 2

MAY 28, 2010

Workshop #2: Meeting Notes

ACTION BY:	ITE	М:
		 c. As-built Drawings: The only CAD format As-built Drawings for the Barn buildings are the existing floor plans prepared by Nakada for the BAS. Elevations, sections and other drawings will be needed as the project moves forward into Schematic Design. F&H to provide a fee for preparing As-built Drawings as part of the design phase d. Site Survey (1.05): Richard Racicot will review the cost of a site survey. e. Utility Connection Point Survey: A subsurface survey of the area between the Barn Group and the proposed utility connection point will be completed once it is determined which connection point the project will use.
	3.	Project Area Summary:
		a. Barn Dining: Larry Lanier is concerned that the space allocation for interior seating at the Barn Dining is too tight on a SF per person basis. Susan Marshburn emphasized that the program must meet the seat count for the Barn Dining per the Dining Study. Andy Plumley suggested that the allocation be generous rather than tight. The issue will be discussed during the Workshop.
	4.	Cost:
		 a. Cost Estimate: Laura Hartman related that Scott Lewis the Cost Estimator was nervous with the BAS cost estimate and is more nervous after reviewing the Project Area Summary (comparing the Preliminary Program and BAS Program). Increasing the size of the Barn Dining was his main concern. The additional cost of a two-story building for KUCR and moving the Barn Stable is potentially offset by omitting the basement below the Barn Stable and adapting the historic building to the technological challenges of a radio station as proposed in the BAS. b. Cost and Increasing Areas: Increases to the areas from the BAS will most likely result in an increase in the project cost. Susan Marshburn suggested that the Kitchen Addition to the Barn Dining is the heart of the project if the project arease to increase it is where the areast form.
	E	areas to increase it is written use of Design and Construction will be
	э.	present for the workshop to share his experience with LEED through his involvement in another UCR project that is currently seeking LEED Certification.

Workshop #2: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: March 15, 2010

MEETING NOTES

Workshop #2: Site Plan Options; Building Systems; Sustainability

PROJECT:DPP – UCR Barn Project Phases 1 & 2TIME/DATE:9:30 AM – 4:30 PM, February 26, 2010LOCATION:Capital and Physical Planning Offices, Bannockburn, J-102

ATTENDEES:

Project Management Team				
	Don Caskey	Associate Vice Chancellor, Campus Architect		
	Kieron Brunelle	Director, Capital and Physical Planning		
	Richard Racicot	Assistant Vice Chancellor, Design and Construction		
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction		
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning		
	Andy Plumley	Assistant Vice Chancellor, Auxiliary Services		
	Susan Marshburn	Associate Director of Housing Services		
Steering Comm	ittee	-		
-	Andy Plumley	Assistant Vice Chancellor, Auxiliary Services		
	Susan Marshburn	Associate Director of Housing Services		
	Cheryl Garner	Director of Dinning Services		
	Nita Bullock	Director of Physical Planning, Campus Landscape Architect		
Campus Repres	entatives			
	Tim Gable	Communications		
	Pat Simone	Assistant Director, Physical Plant		
	Pat Nugent	Physical Plant		
	Mike Terry	Physical Plant		
	Eric Shuler	Supervisor, Electrical Shop		
	Hassan Ghamlouch	Director of Housing Operations		
	Louis Vandenberg	KUCR General Manager		
	Tricia D. Thrasher	Office of Design and Construction		
	Kenyon Potter	Office of Design and Construction		
	Nathan Ziadie	Associated Students of UCR (ASUCR)		
Consultant Tear	n			
	Laura Hartman	Principal in Charge, Fernau & Hartman Architects		
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects		
	Ryan Metcalf	Junior Designer, Fernau & Hartman Architects		
	John Rozeluk	Mechanical Engineer, Timmons Design Engineers		
	Bry Sarte	Civil Engineer, Sherwood Design Engineers		
	Larry Lanier	Food Service Consultant, Laschober + Sovich		

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #2, 2/26/10 03/15/10 Page 1 of 8

ACTION BY: ITEM:

	1.	Drawings Presented : one 24"x36" board (Composite Site Organization Plan), in addition to boards presented previously at Workshop #1.
	2.	Utilities : Representatives from UCR Physical Plant provided information regarding existing utilities.
		 a. General Utility Issues i. Building footprints need to be at least 5 feet away from center of utility lines.
		 Separate meters for buildings are proposed for leasing/billing purposes as well as for attaining LEED credits.
JH		iii. Jon Harvey to follow up with Physical Plant to provide draft building standards to Consultant Team.
		iv. Connections should be shared as much as possible to reduce trenching.b. Electrical
		i. Points of Connection
		 There are multiple options for electrical connections. Vault 3A (near West Campus Drive and Humanities) is proposed for all primary connections although Vault 4A (west of Sproul Hall) would also suffice and is less congested. A benefit of Vault 3A is that it is located in a grass area.
		 Copper piping is preferred; no aluminum.
		 AV switching mechanism to be placed outside the vault.
		 Replace the existing transformer and 800 amp service with a new service
		to handle full complex.
		 Abandon the existing conduit and consider reuse for
		data/telecommunications.
		ii. Cottage
		Run from Vault 13 to Vault 14 is currently empty.
		• Two vaults exist near the proposed Cottage location; one is for
		telecommunications and the other is empty. The Cottage may have to
		shift to the north to avoid several utility lines.
		 I ne new tooting of the relocated Cottage can be directly adjacent to a would be sense to a
		vauit. Il a new vauit is needed it snouid de concrete.
		There is an existing dust bank at the proposed KLICP location
		 There is all existing duct bank at the proposed KOCH location. Percommondation from Physical Plant is that sorvice for KLICP and Barn
		Theater comes from west of existing Barn Stable. The new building
		footings can span over the existing electrical line, but plans and
		construction must protect conduits in place
		c. Water / Sewer: 110 psi soft, hot water service to Kitchen Addition proposed.
		i. Points of Connection : Multiple lateral connections are preferred to a
		single tap. Manhole proposed at location of incoming supply.
		ii. Reroute 12" Line at KUCR: The existing 12" water line that runs
		north/south to the west of the Barn Stable will need to be rerouted
		further west to accommodate the KUCR addition. The footings of the
		KUCR addition should not be placed over this water supply.
		iii. Sproul Loading Dock: The truck turnaround at Sproul loading dock may
F&H		impact sewer or water lines. F&H will review Sproul loading dock for
		impact on utilities.
		d. Steam + Chilled Water
		 A central plant at UCR provides steam and chilled water throughout

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #2, 2/26/10 03/15/10 Page 2 of 8

ACTION BY:	ITEM:
JN	 Campus. Connecting to this system at vault 15 (south of Sproul Hall) is proposed for the Barn Project. ii. No PVC to be used; only steel. iii. 3-way bypass valves (per campus standard) to be used (Physical Plant to provide standards). iv. Minimum of 60°F return water temperature for chilled water. v. BTU meters provided on steam and chilled water. e. Gas: Gas is provided by Southern California Gas. f. Storm Water i. Policy: The DPP recommended approach to storm water management will be tailored to fit Campus standards. Jacqueline Norman to follow-up with Tricia Thrasher for information regarding the campus-wide storm water policy. ii. Approach: Careful management of storm water can respond to the agrarian nature of the buildings. Bioswales, rainwater harvesting, and fossil filters are options for retention and treatment of storm water. Points of Connection: Multiple points of connection are available. Currently, a 12" drain runs N-S through the drive to the east of the site while a 24" line runs E-W to the south of the site (just outside Kitchen Addition and Barn Dining). g. Telecommunications: The Barn Area contains 2 conduit runs; the current feed on the south side of Barn Dining and an existing duct bank on the west side, from which the new KUCR building and Barn Annex should be fed. The two manholes near the proposed location for the Cottage will likely serve as the connection point for the project.
JH RR	 Additional Items Building Envelope: Improvements to be made to improve energy performance, including improved daylighting, structure, and insulation. Historical Character: Completion of the historical report is important for understanding possibilities for design changes. Tree of Concern: Existing legacy tree on site (an English walnut grafted to a black walnut) is relevant to the history of the UCR campus; would be great to preserve the tree. Mike Terry via Jon Harvey will verify the location of tree trunk. Paving: Office of Design and Construction is currently in the process of developing standards for the use of interlocking pavers. Richard Racicot to provide a copy of the standards when available.
DPP - UCR Ba	 4. LEED / Overview of Sustainability Strategies a. Project is mandated to achieve LEED Silver Certification minimum. Project will be certified as a single project. b. Desire for simple sustainable systems. Low-tech, passive, cost-effective systems are seen as most beneficial (well-designed daylighting, use of campus chilled water and steam system, etc.) c. There is an opportunity for the project to be a pilot project as presented in the Draft UCR Sustainability Action Plan and serve as an education tool. The project will emphasize cost-effective sustainable strategies while illustrating a campus-wide dedication to sustainable practices. It is important to continue a careful assessment of short- and long-term costs involving both first costs and maintenance costs.

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Workshop #2: Meeting Notes

Page 3 of 8 243 PENDIX

Workshop #2: Meeting Notes

ACTION BY:

ITEM:

	 5. HVAC a. Systems i. Passive systems are preferred (passive solar, campus-wide steam and chilled water, insulation, possible solar water heating, kitchen heat reclaim, etc.). The project should tap into existing campus-wide efforts whenever/wherever possible. ii. Sustainable systems to be weaved into all parts of the project, both existing and new. b. Thermal Comfort i. For certain areas of the program, setting a wider range of occupants' thermal comfort will improve efficiency. However in the kitchen and other food preparation areas increased temperature fluctuations are not tolerable. ii. Improved air circulation, large ceiling fans, radiant floor heating/cooling, and zoning are all approaches that will improve the performance of the buildings. iii. Due to the varied use of the spaces (some spaces will host both small groups and large gatherings), the buildings will need to respond quickly and efficiently to abrupt changes in heating/cooling demands.
F&H	 a. Durability and seismic resistance are part of sustainability. b. An assessment of the structural impact and extent of the dry rot at the existing buildings will be completed during Schematic Design. c. KUCR: For new construction, wood frame is most cost effective. Steel studs and block construction are also options. d. Cottage: Moving the Cottage offers the opportunity to address dry rot at the base. By putting the crawl space below grade, it becomes possible to reduce the amount of ramps required for access. e. Cottage + Barn Annex: F&H will investigate the different approaches to moving buildings. f. Barn Dining: There may be missing canted beams. The proposed layout lends itself nicely to introducing shear walls at the north and south ends of the building.
	 7. Composite Site Plan a. General Issues i. Cottage: May need to move to the north to avoid existing utilities. A ramp up to the front entrance/porch rather than around to the rear entrance as shown in BAS may be preferable. ii. Barn Annex: Will act to buffer the associated outdoor terrace from the Sproul loading dock to the east. Also, incorporation of a trellis or low walls around the terrace will help to create an enclosed, yet open space for gathering. The existing Barn Annex sliding doors will provide a strong indoor / outdoor connection as well as ample daylight. ("Think wedding" – CG) iii. Barn Dining: Space is open to both courtyards (east and west). iv. KUCR: Current design has the KUCR building as two-stories, with different options for stacking. Questions on adjacencies still remain. The placement
	rn Project Phases 1 & 2 Meeting Notes from Workshop #2, 2/26/10

UC RIVERSIDE | THE BARN PROJECT PHASES 1 & 2 | DETAILED PROJECT PROGRAM

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #2, 2/26/10 03/15/10

Workshop #2: Meeting Notes

ACTION BY:	ITEM:
	of KUCR and the orientation of its entrance make it a visible destination from the north. A next step is for KUCR to provide input on program
F&H	 v. Performance Courtyard: Need to further address acoustical concerns and stage/equipment layout. F&H to obtain a proposal for a quick review by the team's theater consultant (Landry & Bogan).
F&H	 vi. Ticket Office: This newly proposed space should be included in the project program. It could be stand-alone or could potentially function as a permanent space attached to another building (not attached to Barn Theater). F&H to add the Ticket Office to Project Area Summary.
F&H	 vii. F&H to produce overlay sketches on site plan: how "stuff" can be moved and site security.
F&H	 viii. F&H to roughly determine the latitude and longitude of proposed location of KUCR radio tower using Google Earth for understanding any conflicts with line of sight to the Box Spring Mountains. ix. Jon Harvey will examine options to provide approximate tree locations in a timely manner (as part of 3.c. above). b. Security
	 In order to maintain a strong connection to Campus, The Barn Area should feel open to pedestrian circulation. However it needs to be able to be fully enclosed at times due to security concerns and for alcohol containment. Gates between buildings and location of fencing will be studied by F&H (Action Item 7.a.vii).
	 ii. The backstage area for the outdoor stage (currently proposed as a part of the KUCR building) needs to function separately from the radio station. Different groups, many of which are not connected to KUCR, will be using this space to prepare for performances and should not have access to the rest of the building. Clarification on this issue from LV and theater consultant is needed.
AP	 c. Liquor License: Currently, the University Club holds an ABC license, which it extends to Barn Dining. Physically removing the University Club from Barn Dining complicates this relationship, as alcohol service must be contained within the space occupied by the license-holding body. Andy Plumley to obtain additional information to determine whether the license can be modified, fencing options, or if a new ABC license for Barn Dining is required. d. Access / Circulation
F&H	 i. KUCR needs space for a loading dock. F&H to study KUCR loading dock south of KUCR near Barn Dining loading dock. ii. Bussing trash and dishes around the site remains an issue.
CG	 Trash: Need to make sure there is adequate space for trash bins throughout the site. Cheryl Garner will determine if a compactor is needed West of Kitchen Addition. A three foot wide sidewalk along the South side of Barn Dining is needed to transport materials from East courtyard and provide a connection
CG	 between the Cottage and Barn Dining. Bussing dishes: Cheryl Garner to determine if Dining will use permanent or disposable dishware. If permanent dishware is chosen, it will be difficult to transport dishes to/from the dishwashing station in Kitchen Addition. Dishes will be coming from Barn Dining as well as from Cottage and Barn Annex, making transportation difficult. Also, a bussing station along the path to the East of the site may be needed to

DPP - UCR Barn Project Phases 1 & 2 - Meeting Notes from Workshop #2, 2/26/10

ACTION BY:	ITEM:	FERNAD & HARIMAN ARCHITEC
	e f.	 help with transporting food. iii. The service road will also be a cyclist path with the goal of removing cyclists from using the pedestrian path. Cost Laura Hartman spoke with the project's cost estimator (Scott Lewis), who has said that he "was nervous before" about the budget and "is more nervous now." Increasing the size of the project will increase the budget. Implementation / Phasing During construction, the central courtyard may be used as a staging area. Also, a portion of Parking Lot 4 may be utilized as well (for contactor's trailer, etc.). West Courtyard and KUCR could be implemented at the same time. Kitchen Addition, Barn Dining, and Barn Annex could be completed first. Implementation to be discussed further at Workshop #3.
	8. Prog	ramming
F&H, AP	a	 KUCR i. LV is concerned that the proposed space allocation may not meet his needs. He prefers a larger performance area within the station for band performances/discussions/interviews. LV is unfamiliar with the process of planning new buildings, but is an expert in radio stations. ii. Clarification of program needs shows that the spaces needed are: Two production rooms of equal size. The size of existing rooms is adequate (about 10' x 11'). Two smaller post-production rooms (soundproof spaces with closing doors measuring about 8' x 5') Several post-production edit bays – Further discussions with Louis is needed to determine sizes of post-production edit bays spaces. The idea of the conference room being used as a performance room was supported. Interview / program host space will need to be larger The Backstage Space, should be separate from KUCR but adjacent to performance stage. F&H and the Theater Consultant to work with AP to determine required size and needs for the Backstage Space. Server / transmission room approximately 10' x 10'. Lobby should allow for about 6 people to sit/lounge comfortably, size to be determined. Private office space for 4 people Music + News / Public Affairs office: an open office with 2 large stations used to process and catalog materials Two storage rooms: one for internal use, one for loading live remote equipment Three parking spaces; one will need to be an ADA space. Also, the parking situation needs to accommodate loading/unloading via a small pickup truck. Any additional parking needs will be met at Parking Lot 4. Library has three primary audio formats: vinyl records, CDs, and archival
011		 Listary has three printary auto formats. Why records, CDS, and archival tapes (reel-to-reel, cassette, and broadcast cartridge); should be secure and consolidated, not scattered about. LV volunteered to measure the linear length of the KUCR library materials. Jon Harvey to track. Visibility of the collections is desirable.

DPP - UCR Barn Project Phases 1 & 2 - Meeting Notes from Workshop #2, 2/26/10

03/15/10 Page 6 of 8

Workshop #2: Meeting Notes

ACTION BY:	ITEM:
	b. Dining Services
	i. Issues
	 Since the BAS, Dining has brought in a master planning group to look at
	the reasibility of the project; some concerns remain.
	 The proposed program has 1,323 GSF more than 2009 BAS. Current deputies are based on factorists from BAQ.
	drawings are based on footprints from BAS.
F&H, SL	 In order to determine order of magnitude costs increase it is necessary to determine the cost order of magnitude costs increase it is necessary to
	determine the cost per square foot. F&H and Cost Estimator, Scott
	Lewis, to determine the order of magnitude cost increase for the
	increase to the building program.
	II. Kilchen Addition
	 Current Concerns. At least two offices will be needed
	 At least two offices will be needed Bestreame inside Kitchen Addition can be eliminated, but a changin
	ream will be needed in their place. An additional office may also
	accurate some of the space formerly assigned to the restreams
	 Droposod rostrooms at Northwost corner of Kitchen Addition will
	suffice for employees. A "dog trot" configuration or two rooms of
	either side of a open hall will be studied
	 Dry storage has been reduced: snace will be tight
	 More space is needed for hot food preparation / grill
	 Chervl Garner proposed that the bar pop out into the West Courtvar
	in an effort to provide more square footage for food preparation. If
	sufficient space cannot be gained from this move. Kitchen Addition
	may need to be widened.
	The form of these possible additions/shifts needs to be studied.
	 Bar still needs to serve both inside and outside and should be ab
	to be staffed by one person.
	 One concern is that there is currently no area for catering equipment
	storage. This are will be for storing chafing dishes and mobile carts
	iii. Barn Dining
	Current Concerns:
	 Lack of seated dining space within Barn Dining.
	 May need to decrease the size of the interior stage or make part
	it removable to accommodate additional seating.
F&H	 Servery queuing could possibly begin outside Barn Dining rather
	than upon entering Servery.
	 Kitchen Addition could possibly extend to the west.
	F&H to review truck turning at Barn Dining Loading Dock.
	 Additional outdoor seating may be added to west and east of Bar Distance (Leaves Leaves and ease of access billing as the seating as the seatin
	Dining (Laura Hartman's proposed porch-like seating scheme).
	IV. Barn Annex. Bar can be reduced to 100 st. It will require counter space
	space for tables and chairs. This space will need to be 250 st
	9. Next Steps
	a. Utilities - There are several options for utility connections that need to be
	studied. The final underground utility survey will aid in understanding the
	utility options.
	b. Historical Survey – The Historical Resources Survey that is being prepared
	will help determine design flexibility for the existing structures

Workshop #2: Meeting Notes

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ACTION BY:

ITEM:

Workshop #2: Meeting Notes

APPENDIX

- c. LEED / Sustainability There is a need for further review of the sustainability goals as they relate to the budget, the requirement for LEED Silver Certification and Campus-wide sustainability efforts.
- d. HVAC and Thermal Comfort In general the project should use passive systems for heating and cooling. However there is a need for certain spaces, such as the Kitchen, to maintain a tight range of thermal comfort, in which case more intensive mechanical systems may be necessary.
- e. Structural There is a need for a better understanding of the options for seismic resistance and how the Barn Annex and Cottage could be moved.
- f. Site Plan
 - i. The Cottage may need to shift from its proposed location to avoid utilities.
 - ii. **Security** Security will need to be studied in relation to the desire to maintain a connection to open feeling campus.
- iii. How "stuff" is moved around the site needs to be studied.
- iv. Input from the Theater consultant is needed to address various programmatic questions about the indoor and outdoor stage.
- g. **Cost** The Cost Consultant will provide information about the order of magnitude cost increase related to increasing the program areas.
- KUCR Many questions remain about the needs of KUCR. A discussion with the Acoustical Consultant is needed to help understand the KUCR program.
- i. **Barn Dining** –Barn Dining will be studied by Cheryl Garner and Larry Lanier to address concerns about Kitchen space allocation and layout, and sufficient space for interior seating.
- j. Implementation and Phasing will be discussed in detail at Workshop #3.
- k. See also attached Action Items List

Workshop #2: Action Items

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: March 16, 2010

ACTION ITEM STATUS TABLE

PROJECT: DPP – UCR Barn Project Phases 1 & 2

The Action Item Status Table is meant to summarize the action items raised at the meeting(s) listed above and responsible party for each action item. If they differ from your recollection, please contact Fernau & Hartman immediately. Completed items are taken off the list after review by the PMT.

No.	WS Date	Action By	Issue, Notes & Comments	Status
1.01	02/05/10	SM	PMT: Susan Marshburn will ask Dining Services to provide the draft Dining Study for the Barn, and once available the completed Dining Study report. 2/09/10 – spread sheet of draft Dining Study provided to F&H, completed Dining Study report still pending	
1.02	02/05/10	JN	PMT: Jacqueline Norman will provide the Historical Resources Inventory report to F&H as soon as it is available. 2/26/10 – A firm has been selected to conduct the study. Schedule for completion is TBD. Note: For now proceeding with direction set by 1993 Report.	
1.03	02/05/10	JN	 PMT: Jacqueline Norman will provide status of the utility surveys at the next meeting. 2/26/10 – Underground survey is complete. 3/3/10 – Initial CAD file sent to F&H. Review and confirmation by the Physical Plant is pending. 3/12/10 – Review by Plumbing and Telecom sent to F&H by JH. Comments on other trades pending. 	
1.04	02/05/10	RR	PMT: Richard Racicot will review fire protection issues with Campus Fire Marshall and will report back to the Committee.	
1.05	02/05/10	RR	PMT: Richard Racicot will investigate the cost of a site survey. 2/26/10 – Cost for a site survey should be available second week of March.	

DPP - UCR Barn Project Phases 1 & 2 - DRAFT Action Item Status Table 3/16/10 Page 1 of 4
Workshop #2: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
1.07	02/05/10	LL	F&H: Larry Lanier will review and update food service program with Cheryl. 3/4/10 – LL reviewed areas and layout with Cheryl Garner and Food Managers. Revised sketch to inform Project Area Summary is pending.	Complete
1.08	02/05/10	JH	PMT: Jon Harvey will send Barn Theater ADA Report to F&H, and once available, will provide final ADA Transition Plan. 2/10/10 – Barn Theater report sent to F&H, final ADA Transition Plan is pending.	
1.09	02/05/10	JH	PMT: Jon Harvey will follow up with Nate Jones (CHASS), who will provide comments on the Barn Theater program presented in the BAS. 2/17/10. Nate will provide comments no later than March 15.	
			E8.H to provide a fee for proparing As built	
2.03	02/26/10	F&H	Drawings.	
2.04	02/26/10	JH	Jon Harvey to follow up with Physical Plant to provide draft building standards to Consultant Team. 03/08/10 – Housing is reviewing the Physical Plant standards and will provide direction	
2.05	02/26/10	F&H	F&H will review truck turning at the Sproul loading dock for impact on utilities. 3/10/10 – F&H and Civil reviewed truck turning to be presented at WS #3.	Complete
2.06	02/26/10	JN	Jacqueline Norman to follow-up with Tricia Thrasher for information regarding the campus- wide storm water policy.	
2.07	02/26/10	JH	Jon Harvey to verify location of tree trunk of the Walnut tree near proposed location for KUCR. 3/3/10 – Locations of trees trunks have been identified. Drawing to F&H still pending. 03/12/10 – Provided map showing tree locations around the Barn and information that identified Walnut Tree location.	Complete
2.08	02/26/10	RR	Richard Racicot to provide a copy of the	
2.09	02/26/10	F&H	F&H will investigate the different approaches to moving buildings	

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/16/10 Page 2 of 4

Workshop #2: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
2.10	02/26/10	F&H	F&H will obtain a proposal for quick review by theater consultant (Landry & Bogan). 3/12/10 – F&H sent Additional Service Proposal with two separate items to JH: Theater Consultant review and Acoustical Consultant review of KUCR.	Complete
2.11	02/26/10	F&H	F&H will add Ticket Office to Project Area Summary. 3/9/10 – Ticket Office added to Project Area Summary.	Complete
2.12	02/26/10	F&H	F&H to produce overlay sketches on site plan: how "stuff" can be moved and site security. 3/15/10 – F&H drafts overlay sketches on site to be presented at WS #3.	Complete
2.13	02/26/10	F&H	F&H to roughly determine the latitude and longitude of proposed location of KUCR radio tower using Google Earth for understanding any conflicts with line of sight to the Box Spring Mountains. 03/01/10 – F&H identified tower location. 03/12/10 – KUCR review shows location is less than ideal.	Complete
2.14	02/26/10	AP	Andy Plumley to obtain additional information to determine whether the liquor license can be modified, fencing options, or if a new ABC license for Barn Dining is required.	
2.15	02/26/10	F&H	F&H to study KUCR loading dock south of KUCR near Barn Dining loading dock. 3/12/10 – F&H current site plan addresses loading at KUCR (to be presented at WS #3).	Complete
2.16	02/26/10	CG	Cheryl Garner will determine if a compactor is needed west of Kitchen Addition. 03/10/10 – Compactor is needed	Complete
2.17	02/26/10	CG	Cheryl Garner to determine if Dining will use permanent or disposable dishware. 3/4/10 – Meeting with LL and CG: Dining will use disposable dishware (basket with disposable paper liner).	Complete
2.18	02/26/10	F&H, AP	F&H and the Theater Consultant to work with AP to determine required size and needs for the Backstage Space.	
2.19	02/26/10	JH	LV volunteered to measure the linear length of the KUCR library materials. Jon Harvey to track. 3/3/10 - F&H sent email to JH requesting information. 03/11/10 – Information provided	Complete

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/16/10 Page 3 of 4

Workshop #2: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
2.20	2/26/10	F&H, SL	In order to determine order of magnitude costs increase it is necessary to determine the cost per square foot. F&H and Cost Estimator, Scott Lewis, to determine the order of magnitude cost increase for the increase to the building program. 3/13/10 – F&H and Scott Lewis discuss order of magnitude cost increase to be presented at WS #3.	Complete
2.21	02/26/10	F&H	Kitchen Addition could possibly extend to the west. F&H to review truck turning at Barn Dining Loading Dock. 3/10/10 – F&H and Civil reviewed truck turning to be presented at WS #3.	Complete

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/16/10 Page 4 of 4

Workshop #2: Site Plan Alternatives



KUCR Conference Call: Meeting Notes

PROJECT AREA SUMMARY UCR Barn Project Phases 1 & 2 3/05/10

PRELIMINARY DRAFT FOR INTERNAL USE ONLY



Jon Harvey

From:	Jon Harvey [jon.harvey@ucr.edu]
Sent:	Wednesday, March 10, 2010 5:01 PM
To:	Louis Vandenberg; Andy Plumley; Susan Marshburn
Cc:	Kieron Brunelle
Subject:	KUCR Program Adjustments
Attachments:	KUCR_Prgm_Review_03-10-10.pdf

Susan, Andy, Louis,

Adjustments to the KUCR Project Summary dated 03/05/10 from this afternoon's conference call is attached for your information. Changes to the program are:

One open office work station (64 asf) was added to the Other Spaces.

Revised the KUCR production area follows: Master Control room space increase to 190 asf, Studio Production Room A increased to 130 asf, and Studio Production Room B was removed.

As noted on the program sheet, KUCR Library space requires further review. Media collection information will be refined by KUCR to show LF by type (LP, CD, etc). Requested updated collection information by the end of this week.

Please let me know if you have any questions or comments.

Thanks

Jon

Jon Harvey Capital & Physical Planning 951-827-6952

Workshop #3: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: April 8, 2010

MEETING NOTES

Project Management Team Meeting #3

PROJECT:	DPP – UCR Barn Project Phases 1 & 2
TIME/DATE:	9:00 AM – 9:30 AM, March 19, 2010
LOCATION:	Capital and Physical Planning Offices

ATTENDEES:

Project Manage	ement Team	
	Don Caskey	Associate Vice Chancellor, Campus Architect
	Kieron Brunelle Director, Capital and Physical Planning	
	Richard Racicot	Assistant Vice Chancellor, Design and Construction
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Housing, Dining & Residential Services
	Susan Marshburn	Executive Director of Housing Services
Consultant Tea	am	-
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Laura Boutelle	Project Designer, Fernau & Hartman Architects
	Scott Lewis	Cost Estimator, Oppenheim Lewis
	Larry Lanier	Food Service Consultant, Laschober + Sovich

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

ACTION BY:	ITEM:
	 KUCR: a. Concerns were raised about the cost of KUCR being two stories as well as the size of program and the inefficient net-to-gross ratio. b. KUCR currently has approximately 2,000 ASF in their existing space. The current program adds 800 ASF, however the total building is 5000 GSF. Options to consider include: a single story KUCR; a careful review of non-assignable spaces; a review of what can be stored off-site and which items currently being stored can be disposed of. c. Housing and Dining Services would like to understand phasing in order to develop a business plan and cash flow model, which is needed for approval of the project.
F&H	 Performances: Theater Consultant: F&H to provide a revised proposal from Theater Consultant to ensure that crowd control, lighting, sound cueing, and stage support spaces are included. The cover letter will be revised to include the appropriate participants for the conference call.
DPP - UCR Ba	arn Project Phases 1 & 2 - Meeting Notes from PMT #3, 3/19/10

DPP - UCR Barn Project Phases 1 & 2 – Meeting Notes from PMT #3, 3/1 4/08/10 Page 1 of 2

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Workshop #3: Meeting Notes

ACTION BY:	ITEM:
	 b. Seating capacity will drive the types of performances that will take place. c.A goal is to provide the ability to use each facility independently and a concern with sound transmission from one location to another was identified. The project will need to address acoustic issues so sound from the west courtyard stage not disrupts food sales in the Barn. The project will also address sound transmission from one location to another within reason. Complete acoustic separation is not a condition.
	 3. Meeting Goals: The following goals are critical issues to address in Workshop #3: a. Finalize project program areas and allocation. b. Finalize Site Organization Plan.
SM	4. Action Items:
3101	completed.
JN	b. Historical Resources Inventory (1.02): The EDPA is in process for the firm selected to perform the Historical Resources Inventory. F&H will move forward with the 1993 study and state clearly that the DPP is based on this version
N	c. Utility Survey (1.03): RR reported that the Geovision survey missed some water lines because it did not pick up non-metallic lines. Additional work to survey the possible steam and chilled water lines alignment is on hold for now. The
RR	information is not needed to complete the DPP. Item is completed. d. Ground Survey (1.05) : The ground survey will be delayed until design phase
JH	(after the DPP). For the purposes of the DPP, the item is completed.e. Barn Theater ADA Report (1.08): JH is still waiting on the final ADA Transition
JH	Plan. 6 Born Theodox Program (1.00), III is still unities for comments on the Dorn
F&H	Theater program in the 2009 BAS from Nathaniel Jones (NJ). Note: NJ hand- delivered these comments to JH and JW at WS#3.
	g. As-Built Drawings (2.03): F&H has been reviewing the many considerations in documenting these historic structures and will be gathering more information
JH	 and taking photos. Building Standards (2.04): SM reported that Housing and Dining have received Physical Plant standards and will send them to F&H in about one and
INI	one half weeks, once they have had a chance to clarify and summarize the
אונ	i. Storm Water Policy (2.06): JN reported that the UCR storm water policy will not
RR	contain anything unusual. This item is complete.
AP	are being developed.
	k.Liquor License (2.14): AP reported that the liquor license is a non-issue and it will change if necessary. This item is complete.

DPP - UCR Barn Project Phases 1 & 2 - Meeting Notes from PMT #3, 3/19/10 4/08/10 Page 2 of 2

AOTION DV

Workshop #3: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: April 8, 2010

MEETING NOTES

Workshop #3: Finalize Elements of DPP; Prepare for Cost Estimate

PROJECT:DPP – UCR Barn Project Phases 1 & 2TIME/DATE:9:30 AM – 4:30 PM, March 19, 2010LOCATION:Capital and Physical Planning Offices, Bannockburn, J-102

ATTENDEES: Project Management Team

Project manage	ement ream	
	Don Caskey	Associate Vice Chancellor, Campus Architect
	Kieron Brunelle	Director, Capital and Physical Planning
	Richard Racicot	Assistant Vice Chancellor, Design and Construction
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Housing, Dining & Residential Services
	Susan Marshburn	Executive Director of Housing Services
Steering Comm	nittee	
-	Andy Plumley	Assistant Vice Chancellor, Housing, Dining & Residential Services
	Susan Marshburn	Associate Director of Housing Services
	Cheryl Garner	Executive Director, of Dining Services
	Nita Bullock	Director of Physical Planning, Campus Landscape Architect
Campus Repre	sentatives	
	Louis Vandenberg	General Manager, KUCR
	Nathaniel Jones	Assistant Dean, CHASS
	Paul Richardson	Arts Facilities Manager, CHASS
	John Freese	UCR Police
	Robert Heath	Board President, University Club
	Tim Ralston	Capital and Physical Planning
	Nathan Ziadie	Associated Students of UCR (ASUCR)
Consultant Tea	am	
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Laura Boutelle	Project Designer, Fernau & Hartman Architects
	Ryan Metcalf	Junior Designer, Fernau & Hartman Architects
	Scott Lewis	Cost Estimator, Oppenheim Lewis
	Larry Lanier	Food Service Consultant, Laschober + Sovich
	-	

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #3, 03/19/10 04/08/10 Page 1 of 8

Workshop #3: Meeting Notes

ACTION BY: ITEM:

	 Drawings Presented: Twelve 24" x 36" boards [Composite Site Organization Plan, Composite Site Plan—Alternate (Preserves Walnut Tree), Security Diagram, Moving "Stuff" Diagram, Truck Turning Diagram, Phasing + Implementation Strategy #1— Phases 1-3, Phasing + Implementation Strategy #2—Phases 1-3, Utility Points of Connection Diagram] were presented, in addition to boards shown at previous workshops. Also, adjacency diagrams showing programmatic relationships between spaces were presented.
	 Naming Conventions: Names for the buildings and spaces contained in the project were agreed upon. All names were accepted as presented, with the exception of Barn Annex, which will be referred to as "Barn Stable" and Barn Annex Terrace, which will be referred to as "Barn Stable Patio" from here on out.
	The project will include the following buildings: Barn Dining, Kitchen Addition, Cottage, Barn Stable, KUCR, Barn Theater, and Restrooms.
	Outdoor spaces will include West Courtyard, East Courtyard, and Barn Stable Patio.
	3. Barn Dining : F&H reported changes in the design made since WS#2, including the reduced square footage of the Kitchen and the Barn Dining stage.
	a. Indoor Seating
	 Existing canted beams create difficulties for seating layouts and placement of the POS stations. A section sketch of Barn Dining will be developed to study interior layout options.
	 F&H presented a layout with the sloping columns incorporated into fixed tables to mitigate ADA issues. Bar tables serving a similar function will be studied as a seating option around the perimeter of the Dining Area to preserve view of stage.
F&H / LL	 F&H and LL to study orienting the seating North-South and in an angled configuration.
CG	II. Cheryl Garner (CG) was concerned about seat utilization with bench-style seating. CG recommended 2-tops and 4-tops tables. CG to provide party size and current seat utilization statistics to F&H.
CG	 iii. Barn Dining may need an A/V mixing booth for existing sound system. CG to provide F&H information regarding current mix setup, which may be applicable to the sound system in the West Courtyard as well.
F&H	 General Program Discussion i. F&H to study relocating the Kitchen Mechanical room to the southwest corner of Kitchen for easier connection to steam and chilled water to the east at Vault 15
F&H	ii. F&H to study relocating the Green Room to the northwest of Barn Dining, adjacent to Stage
F&H	iii. F&H to revise the adjacency diagrams to reflect current program relationships
F&H	 iv. F&H to study adding a structural bay at the north end of the Dining Area and recreating the existing façade. Andy Plumley (AP) noted that the original north façade burned in a fire and the current façade dates to 1986.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #3, 03/19/10 04/08/10

Workshop #3: Meeting Notes

ACTION BY:	ITEM:
	 Cottage: F&H reported changes in the design made since WS#2, including moving the Cottage to the north to clear existing utilities and manholes.
	a. Entry / Access: There were several concerns about access to the Cottage and the perceived "front door" (South Porch) and "back door" (East
F&H	 i. F&H to study the indoor/outdoor circulation and number and location of doors to make the South Porch entry more prominent. Double doors will be
F&H	considered.
F&H	concerns.
	iii. F&H to study adding a ramp at the North Porch to address ADA concerns at this exit.
	 D. General Program Discussion i. No seating is to be provided inside the Cottage in order to provide sufficient.
	space for circulation and queuing.
F&H	ii. Office and Telecommunications/Electrical seem too large for the space. F&H to study a Telecommunications/Electrical cabinet that opens up into
F&H	Office, rather than a dedicated room.
	Office and Telecommunications/Electrical.
	5. Barn Stable : F&H reported refinements in the design made since WS#2, including the Meeting room seating capacity of 42 persons (using 6-tops tables).
	The Barn Stable Patio can serve as a spillover seating area if additional seating is needed.
	a. Meeting / Bar
F&H F&H	 i. The two small storage closets at the south end of the Meeting space are not needed. F&H to study the possibility of additional seating in this area. ii. Bar does not need to wrap-around or provide seating. F&H to study a linear walk-up bar with direct access to the Kitchen, shutters, and storage for liguor and bar supplies.
	iii. Barn Stable will use china, not disposable dishware.
F&H	 b. Electrical / Storage i. E&H to study location of Electrical room to provide access from the outside
	c. Lobby
	 Lobby should provide a space for gathering, coat check/closet, space to leave gifts, some kind of furniture (benches), and an entry piece (wedding
F&H	announcement, etc.)
F&H	d. General Program Discussion
	 F&H to update adjacency diagram to reflect current program relationships, including adding the Barn Stable Patio and showing connection between Restrooms and Lobby.

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ACTION BY: ITEM:

 A General Program Discussion a. General Program Discussion F&H to first and foremost pursue a single-story option for a more efficient net-to-gross ratio. If a second star. One benefit of the two-story design is that it would help to block freeway noise. Consideration should be given to sloping the roof up to the west to help mitigate freeway noise. ii. The Conference Room will be removed from the program. KUCR staff meetings can occur elsewhere in the Barn complex or around campus. iii. Jon Harvey (JH) noted that the library is an area that could be reduced. JH v. F&H to study location of KUCR archive shelving analysis that he recently prepared. F&H to study location of KUCR Remote Live Equipment Room to minimize distance away from loading area. vii. F&H to study location of KUCR Remote Live Equipment Room to minimize distance away from loading area. vii. F&H presented an alternate site plan that preserved the walnut tree west of KUCR. The Steering Committee determined that the tree would interfere with access to the service drive and greatly compromise the KUCR floor plan and therefore should not be preserved. Nita Bullock (NB) also noted that the wanut tree located to the west of KUCR is not identified in the UCR LRDP nor listed in any historic registries and should be identified and mitigated through CEQA if determined to be of importance. uois Vandenberg (LV) is concerned about the security of the archive collection and would like to keep archive materials out of the FVOAuction spaces. An alternate suggestion was discussed in which a portion of the archive is displayed in the Production spaces while being properly secured (behind glass, possibly). KB suggested that valuable portions of the KUCR collection mitimize the amount of cabler run required (critical a		 KUCR: F&H reported refinements in the design made since WS#2, including the relocation of the radio tower
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04/08/10 Page 4 of 8	DPP - UCR Ba	rn Project Phases 1 & 2 - Meeting Notes from Workshop #3, 03/19/10
	04/08/10 Page 4 of 8	

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Workshop #3: Meeting Notes

ACTION BY:	ITEM:
F&H	 F&H to add BBQ and support in drawings, to be located along the southern end of West Courtyard, in the recess formed by the Kitchen Addition.
AP	 West Courtyard will host various types of performances. AP to provide F&H with lists of current performance types and frequencies, along with potential new uses and priorities. LV expressed concerns about the acoustical ability to host loud
	performances in an outdoor space/venue.
F&H	 Stage and stepped performance pit are too large and should be downsized. F&H to coordinate with Theater Consultant and revise layout.
F&H	 F&H to add an A/V mixing booth, centered on the stage and located near seating area. The booth should be permanent to limit the amount of equipment than needs to be moved for a show
F&H	 ii. Outdoor Seating F&H to revise drawings to show more outdoor seating at the West Courtyard than the East Courtyard (CG noted that this area will become premium seating during performances) with the goal of doubling the amount of West Courtyard seating as compared to the current design. One benefit of an enlarged area will be to allow for additional room for circulation. Upper deck will be fixed seating for dining. Lower levels will have movable furniture (cocktail tables possibly) and provide standing room during performances. Currently, furniture is moved 2-3 times per week in the Barn.
	8. Security: F&H presented a diagram of both proposed and optional security gates and fences.
	 a. All proposed security enclosures were approved. These include gates at the north end of the West Courtyard running from KUCR to the Barn Theater, gates at the west end of the West Courtyard running from the Kitchen Addition to KUCR, gates at the east end of the West Courtyard running from Barn Dining to Barn Theater, enclosure at the Barn Stable Patio, and enclosure at the east end of the East Courtyard. b. Additional security will be needed in the form of gates at the trellis along the
	north end of East Courtyard. c. The enclosure at the Barn Stable Patio will be a low wall with fencing, vines, and access via gates.
	 Moving "Stuff": F&H presented a diagram illustrating how materials, trash and dishes will be transported around the site.
	a. Outdoor bussing stations in the East Courtyard should move to the east end of the courtyard, near the gates that exit out to the Barn Walk.b. The compactor will be used for compost (food waste, green waste,
	compostable dishware, etc.); additional bins for recycling and trash will also be provided.
	o. Cans will be used to move items to and nom the dam stable.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #3, 03/19/10 04/08/10 Page 5 of 8

Workshop #3: Meeting Notes

ACTION BY:	ITEM:
	10. Truck Turning : F&H presented a diagram illustrating how trucks will access and exit the Loading Dock area at the Kitchen Addition and Sproul Hall.
F&H	 a. Richard Racicot (RR) noted that trucks accessing the Kitchen Loading Dock do not need to back up; they can simply pull up into the drive and unload. F&H to study if there is clearance for a car to access KUCR parking when a truck is unloading at the Kitchen Addition loading dock area. b. RR suggested the entire Kitchen trash, recycling, and waste oil area be enclosed, with a rolling door.
F&H/OLI	 c. The Sproul Loading Dock was reviewed in relation to the Barn Project. The truck turn around in this area is not a necessary element of the Barn Project. F&H and Oppenheim Lewis (OLI) to include two options in the Draft DPP (site plan and Cost Plan) for further review. i. One option with truck turnaround (as shown). ii. One option that merely replaces parking, screens trash pickup, and requires the garbage trucks to back out as they do currently.
	11 Utility Points of Connection
	a. Steam and Chilled Water
	 i. The proposed vault (Vault 15) for connecting to the steam and chilled water lines is 300 feet East of site. It is vory expensive to extend the line this distance.
	 It may be cheaper to place a stand-alone HVAC unit at each building or to provide a single stand-alone chiller and boiler that feeds the entire site. However, more efficient units needed to achieve LEED Silver will add to the cost.
F&H/OLI	 Another benefit of connecting to the steam and chilled water system would be the need for only one mechanical room to support the entire Barn complex.
	 F&H and OLI to study both options (stand-alone HVAC units or connecting to the steam and chilled water system) as part of Cost Plan. b. Electrical
E&H/11	 i. Vault 3A will feed electricity to a transformer south of the Kitchen, then distribute to rest of site. c. Water
	 i. LL noted that grease interceptors will be needed at both the Barn Stable and Kitchen Addition. F&H / LL to study.
	12. Phasing : F&H presented two strategies for implementation and phasing of the project. The first phasing strategy maintained the phasing approach described in the RFP. The second, preferred option involves underground utility work and building the Dining facilities in Phase 1, KUCR in Phase 2, and the Barn Theater in a future Phase 3.
F&H	 a. General Comments i. F&H to revise diagrams to show what is changing at the current phase (along with existing buildings) with future buildings dashed. ii. Underground utility work will need to occur at the beginning of Phase 1, with consideration of maintaining set utilities serving buildings that continue to be in operation during construction. iii. Occupancy dates remain fixed: Phase 1 work will be completed and
DPP - UCR Ba	rn Project Phases 1 & 2 -Meeting Notes from Workshop #3, 03/19/10
04/00/40	

04/08/10 Page 6 of 8

	ACTION BY: ITEM:
APPENDIX	occupied September 1, 2012 and Phase 2 work will be completed and
Markalaan HO. Maating Nata	occupied September 1, 2013.
workshop #3: weeting Notes	 To meet these deadlines, construction should finish at the end of July.
	If construction is to run over the expected dates, it would be preferable
	for construction to slip into the Spring rather than the Fall quarter.
	iv. Parking Lot 4 may be used for contractor staging, cargo, trailer, etc, and the
	use will need to be confirmed with TAPS during design.
	b. Phasing Concerns
	i. KUCR can move to Phase 2 since the schedule has been delayed for
	Dundee Residence Hall, which necessitates the demolition of the existing KUCR facility.
	ii. CG will need three weeks to complete training within the Dining facilities.
	iii. Beginning construction in June is negotiable; if necessary, pushing into
	spring is preferred to pushing into fall.
	iv. The Cottage should be constructed concurrently with Barn Dining over
	summer so that access to the Barn is not infringed upon during the winter
	and spring.
	 CG noted that if Barn Dining begins to slip, the Cottage should not slip.
	If Barn Dining is unable to generate revenue for a period of time,
	Cottage should be up and running by the end of August.
	v. AP confirmed that leaving the University Club without a meeting space for a
	period of time is acceptable (within Phase 1, the construction schedule of
	the Barn Stable has flexibility).
	c. Phasing Consensus
	i. Phase 1
	1A: All underground utility work and moving Barn Stable
	• 1B: Barn Kitchen
	• 1C: Barn Dining and Cottage
	II. Phase 2: KUCH, West Courtyard, and Stage
	III. Phase 3. Barn Theater
	13. Consultant Narratives: F&H presented briefs from narratives compiled by the
	consultants.
	a. Feedback
	i. Structural
	 RR suggested concrete masonry units for Restrooms and KUCR (for
	sound purposes) and steel studs for Kitchen.
	• RR suggested that rafter tails be kept, pulling the ridge up for airflow.
	F&H noted that Tipping Mar (TM), Structural Engineer, had advised
	against this strategy. F&H/TM to study options for adding insulation
	above the existing roof framing.
	ii. MEP
	F&H/TDE • F&H and Timmons Design Engineers (TDE) to study options for radiant

Lewis, Inc. (OLI), cost estimator, to cost. DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #3, 03/19/10

F&H/LA

OLI

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Kitchen to support the community in case of emergency. Oppenheim

ACTION BY:

ITEM:

Workshop #3: Meeting Notes

	 As discussed in WS#2, all buildings will be metered separately. iii. Foodservice RR noted that all Kitchen walls are to have concrete curbs; he also recommended FRP on cementitious board.
JH F&H/OLI	 14. LEED a. KB noted that Kenyon Potter is updating UCR LEED baseline. JH to provide F&H with this document for preparing the LEED Matrix. b. Don Caskey (DC) suggested organizing a LEED workshop. i. Begin with UCR baseline and add low-hanging fruit. ii. Educational potential of the project is great. Look at all sustainable options as if project were going beyond LEED Silver. Best to shoot for all options and then scale back as needed. iii. F&H and OLI to develop criteria for a project that meets LEED Silver for the DPP and Cost Plan.
AP JH AP	 15. CHASS: During a break, there was a side meeting with CHASS representatives Nathaniel Jones (NJ) and Paul Richardson (PR). AP, JH, JW, and Laura Boutelle (LB) were also in attendance. a. NJ presented a list of issues that were not addressed in the 2009 BAS which will be added to the Appendix of the DPP. b. AP will present the Draft DPP plan to chairs of the department (3) and Dave Keltstrand (sp?) for input. However, the project schedule cannot be delayed when setting this meeting date. If necessary, input will be added as an attachment to the completed DPP. c. JH to invite CHASS and representatives to the conference call with the Theater and AV consultants (4/5/10). d. AP to collect types of performances by CHASS that the Outdoor Spaces and stages will need to support.
F&H/OLI	 16. Cost Plan: F&H and OLI to develop the draft Cost Plan using the format of the two sample Cost Plans provided by JH. a. "Below the Line" items: i. Sproul truck turning (this is a campus issue, not specific to this project). ii. Barn Dining/Kitchen emergency generator. b. Escalation will be 2-3% carried to the mid-point of construction. c. A design contingency of 10% or higher will be used in the estimate. CM will be assumed at 5%. d. Each individual building will be broken out, as well as site landscaping per zone. e. The Barn Theater will not be part of the Cost Plan.

Workshop #3: Action Items

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: April 8, 2010

ACTION ITEM STATUS TABLE

PROJECT: DPP – UCR Barn Project Phases 1 & 2

The Action Item Status Table is meant to summarize the action items raised at the meeting(s) listed above and responsible party for each action item. If they differ from your recollection, please contact Fernau & Hartman immediately. Completed items are taken off the list after review by the PMT.

No.	WS Date	Action By	Issue, Notes & Comments	Status
1.01	02/05/10	SM	 PMT: Susan Marshburn will ask Dining Services to provide the draft Dining Study for the Barn, and once available the completed Dining Study report. 2/09/10 – spread sheet of draft Dining Study provided to F&H, completed Dining Study report still pending 3/19/10 – Report still pending 04-06-10 – Task is completed for the purposes of the DPP. The final report will be provided once available. 	Completed
1.02	02/05/10	JN	 PMT: Jacqueline Norman will provide the Historical Resources Inventory report to F&H as soon as it is available. 2/26/10 – A firm has been selected to conduct the study. Schedule for completion is TBD. Note: For now proceeding with direction set by 1993 Report. 3/19/10 – Report still pending. DPP will move forward with the 1993 Study as the basis. 	
1.03	02/05/10	JN	 PMT: Jacqueline Norman will provide status of the utility surveys at the next meeting. 2/26/10 – Underground survey is complete. 3/3/10 – Initial CAD file sent to F&H. Review and confirmation by the Physical Plant is pending. 3/12/10 – Review by Plumbing and Telecom sent to F&H by JH. Comments on other trades pending. 3/19/10 – Geovision survey missed some nonmetallic utility lines. An additional survey of the 	Completed

DPP - UCR Barn Project Phases 1 & 2 - Action Item Status Table

4//10

Page 1 of 6

Workshop #3: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
			proposed steam and chill alignment was placed on hold. Information is not needed for the DPP.	
1.04	02/05/10	RR	PMT: Richard Racicot will review fire protection issues with Campus Fire Marshall and will report back to the Committee.	
1.05	02/05/10	RR	 PMT: Richard Racicot will investigate the cost of a site survey. 2/26/10 – Cost for a site survey should be available second week of March. 3/19/10 – Survey will wait until design phase. 	Completed
1.08	02/05/10	JH	 PMT: Jon Harvey will send Barn Theater ADA Report to F&H, and once available, will provide final ADA Transition Plan. 2/10/10 – Barn Theater report sent to F&H, final ADA Transition Plan is pending. 3/19/10 – Study still pending. 04-06-10 – Task is completed for the purposes of the DPP. Anticipate the final report will be provided during design phase. 	Completed
1.09	02/05/10	JH	PMT: Jon Harvey will follow up with Nate Jones (CHASS), who will provide comments on the Barn Theater program presented in the BAS. 2/17/10. Nate will provide comments no later than March 15. 3/19/10 – Comments delivered by NJ to JH at WS #3.	Completed
2.03	02/26/10	F&H	F&H to provide a fee for preparing As-built Drawings. 3/19/10 – F&H gathering additional information and photos for preparing fee.	
2.04	02/26/10	JH/SM	Jon Harvey to follow up with Physical Plant to provide draft building standards to Consultant Team. 03/08/10 – Housing is reviewing the Physical Plant standards and will provide direction. 3/19/10 – Housing has received standards from Physical Plant and will provide summaries in 1.5 weeks for JH to forward to F&H.	
2.06	02/26/10	JN	Jacqueline Norman to follow-up with Tricia Thrasher for information regarding the campus- wide storm water policy. 3/19/10 – Storm water policy will not contain anything unusual.	Completed

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/31/10 Page 2 of 6

Workshop #3: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
2.08	02/26/10	RR	Richard Racicot to provide a copy of the interlocking paving standards when available. 3/19/10 – Standards still pending.	
2.09	02/26/10	F&H	F&H will investigate the different approaches to moving buildings 3/19/10 – F&H reported at WS 3 on options for moving Cottage and Barn Stable	Completed
2.14	02/26/10	AP	Andy Plumley to obtain additional information to determine whether the liquor license can be modified, fencing options, or if a new ABC license for Barn Dining is required. 3/19/10 – AP reported this is a non-issue. The license will change if necessary.	Completed
2.18	02/26/10	F&H, AP	F&H and the Theater Consultant to work with AP to determine required size and needs for the Backstage Space. 3/23/10 – Additional services approved for Theater Consultant review and conference call set for 4/5/10. 04/05/10 – Conference call with Theater Consultant reviewed size of Backstage Space.	Completed
3.01	03/19/10	F&H, LL	F&H and LL to study orienting the Barn Dining seating in North-South and angled configurations.	
3.02	03/19/10	CG	CG to provide Barn Dining party size and current seat utilization statistics to F&H. 04-05-10 – Information provided to F&H	Completed
3.03	03/19/10	CG	CG to provide F&H information on current sound mixing booth at Barn Dining.	
3.04	03/19/10	F&H	F&H to study relocating the Kitchen Mechanical Room to the southwest corner of Kitchen for easier connection to steam and chilled water from Vault 15. 04/02/10 – F&H developed site plan showing Mechanical Room south of Kitchen Addition	Completed
3.05	03/19/10	F&H	F&H to study relocating the Green Room to the northwest corner of Barn Dining, adjacent to Stage. 04/02/10 – F&H developed site plan showing Green Room relocated as discussed	Completed
3.06	03/19/10	F&H	F&H to revise the adjacency diagrams to reflect current program relationships.	Completed

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/31/10 Page 3 of 6

Workshop #3: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
3.07	03/19/10	F&H	F&H to study adding a structural bay at the north end of the Dining Area. 04/02/10 – F&H developed site plan showing additional structural bay at north end of Barn as discussed	Completed
3.08	03/19/10	F&H	F&H to study the indoor/outdoor circulation and number and location of doors at the Cottage.	
3.09	03/19/10	F&H	F&H to study widening the ramp at the South Porch of the Cottage. 04/02/10 – F&H developed site plan showing a wider ramp at South Porch of the Cottage	Completed
3.10	03/19/10	F&H	F&H to study adding a ramp at the North Porch of the Cottage to address ADA concerns. 04/02/10 – F&H developed site plan showing ramp at North Porch of Cottage	Completed
3.11	03/19/10	F&H	F&H to study a Telecommunications/Electrical cabinet at the Cottage that opens up into Office, rather than a dedicated room.	
3.12	03/19/10	F&H	F&H to study shifting square footage at the Cottage to Storage from Office and Telecommunications/Electrical.	
3.13	03/19/10	F&H	The two small storage closets at the south end of the Meeting space of the Barn Stable are not needed. F&H to study the possibility of additional seating in this area.	
3.14	03/19/10	F&H	F&H to study a linear walk-up bar at the Barn Stable with direct access to the Kitchen, shutters, and storage for liquor and bar supplies.	
3.15	03/19/10	F&H	F&H to study location of Electrical room at the Barn Stable to provide access from the outside.	
3.16	03/19/10	F&H	F&H to study Barn Stable Lobby flow and layout.	
3.17	03/19/10	F&H	F&H to update Barn Stable adjacency diagram to reflect current program relationships, including adding the Patio and showing connection between Restrooms and Lobby.	
3.18	03/19/10	F&H	F&H to study a single-story option for a more efficient net-to-gross ratio at KUCR. If a second story at KUCR is necessary, F&H to study the possibility of removing the second stair. 04/02/10 – F&H sent site plan with single story KUCR	Completed
3.19	03/19/10	JH	JH to provide F&H with the detailed KUCR archive shelving analysis that he recently prepared. 04/06-10 –Information furnished to F&H.	Completed

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/31/10 Page 4 of 6

Workshop #3: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
3.20	03/19/10	F&H	F&H to compare compact shelving to standard shelving and determine square footage savings at KUCR.	
3.21	03/19/10	F&H	A separate KUCR Studio Production room is needed. F&H to study if two studios adjacent to Master Control can be provided. 04/02/10 – F&H sent site plan showing two Production Studios as discussed	Completed
3.22	03/19/10	JH	JH to follow up with LV to provide F&H information about the number of occupants and equipment KUCR Master Control needs to accommodate. 04-05-10 – LV will review KUCR program and room data sheets during the Administrative Draft review period. Additional information will be provided with comments.	Completed
3.23	03/19/10	F&H	F&H to add BBQ and support in drawings, to be located along the southern end of West Courtyard, in recess formed by Kitchen Addition.	
3.24	03/19/10	AP	AP to provide F&H with lists of current performance types and frequencies, along with potential new uses and priorities. 04-05-10 – Information provided to F&H	Completed
3.25	03/19/10	F&H	Stage and stepped performance pit at West Courtyard are too large and should be downsized. F&H to coordinate with Theater Consultant and revise layout. 04/02/10 – F&H sent site plan showing revised layout as discussed	Completed
3.26	03/19/10	F&H	F&H to add an A/V mixing booth, centered on the stage and located near seating area in West Courtyard. The booth should be permanent to reduce the need for moving equipment.	
3.27	03/19/10	F&H	F&H to revise drawings to show more outdoor seating at the West Courtyard with the goal of doubling the amount of seating in this location.	
3.28	03/19/10	F&H	F&H to study if there is clearance for a car to access KUCR parking when a truck is unloading at the Kitchen Addition loading dock area.	
3.29	03/19/10	F&H/OLI	F&H and OLI to include two options for the Sproul loading dock: one option with truck turnaround, one option that merely replaces parking, screens trash pickup, and requires the garbage trucks to back out as they do currently.	

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/31/10 Page 5 of 6

Workshop #3: Action Items

No.	WS Date	Action By	Issue, Notes & Comments	Status
3.30	03/19/10	F&H/OLI	F&H and OLI to study two HVAC options as part of Cost Plan: one option involving stand-alone HVAC units at each building, one option involving connection to the steam and chilled water system.	
3.31	03/19/10	F&H/LL	F&H and LL to study adding grease interceptors at both the Stable and Kitchen Addition.	
3.32	03/19/10	F&H	F&H to revise phasing diagrams to show what is changing at the current phase (along with existing buildings) with future buildings dashed.	
3.33	03/19/10	F&H/TM	F&H and TM to study options for adding insulation above the existing roof framing at Barn Dining.	
3.34	03/19/10	F&H/TDE	F&H and TDE to study options for radiant heating and cooling at the Barn.	
3.35	03/19/10	F&H/LA	F&H and LA to address site lighting in the Draft DPP.	
3.36	03/19/10	OLI	Oppenheim Lewis to cost the inclusion of an emergency generator for Barn Dining and Kitchen Addition to support the community in case of emergency.	
3.37	03/19/10	JH	JH to provide F&H with UCR LEED baseline for preparing the LEED Matrix. 04/06/10 – F&H to use information provided to date to develop LEED matrix.	Completed
3.38	03/19/10	F&H	F&H to develop criteria for a project that meets LEED Silver for the DPP and Cost Plan.	
3.39	03/19/10	AP	AP will present the Draft DPP plan to chairs (3) of CHASS and Dave Kellstrand for input.	
3.40	03/19/10	JH	JH to invite CHASS and representatives to participate on the conference call with the Theater and AV consultants (4/5/10).	Complete
3.41	03/19/10	F&H/OLI	F&H and OLI to develop the draft Cost Plan using the format of the two sample Cost Plans provided by JH.	

DPP - UCR Barn Project Phases 1 & 2 – DRAFT Action Item Status Table 3/31/10 Page 6 of 6

Workshop #3: Site Plan Alternatives



Workshop #3: Site Plan Alternatives



Performance Issues Conference Call: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

Issued: May 25, 2010

DPP - UCR Barn Project Phases 1 & 2 Fernau & Hartman Architects. Inc. 3:30 - 5:00 pm April 05, 2010 Performance Issues Conference Call

Participants:	Partici	pants:
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Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
Richard Racicot	Assistant Vice Chancellor, Office of Design and Construction
Jacqueline Norman	Senior Project Manager, Office of Design and Construction
Susan Marshburn	Executive Director of Housing Services
Andy Plumley	Assistant Vice Chancellor, Housing, Dining & Residential Services
Cheryl Garner	Executive Director, of Dining Services
Nate Jones	Assistant Dean, CHASS
Paul Richardson	Arts Facilities Manager, CHASS
Laura Hartman	Principal in Charge, Fernau & Hartman Architects
Jason Wilkinson	Project Manager, Fernau & Hartman Architects
Rose Steel	Principal Consultant, Landry & Bogan, Inc. (Theater Consultant)
Tom Schindler	Vice President, Charles M. Salter Associates, Inc. (AV Consultant)

Notes

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

1) Occupancy

a. Fire Marshal will determine maximum number of occupants and exiting requirements for performances or any other use beyond normal dining operations.

2) Back of House Support Spaces

a. Smaller support spaces are OK. If necessary the Barn Stable can be used.

3) Outdoor Stage

- a. Mosh Pit: Angle steps to allow for better views and dancing area
- b. Sound / lighting control outdoor stage two connection points:
 - i. There will be an enclosed, permanent booth at the northwest wall of the Barn

Dining facing the stage

1. The sound and lighting boards will be stored when not in use

DPP - UCR Barn Project Phases 1 & 2 - Performance Issues Conference Call - Notes 5/25/10 Page 1 of 3

Performance Issues Conference Call: Meeting Notes

- 2. The booth will be raised, have low walls, and will not be covered
- A temporary ramp or stairs will be brought in as needed to access the booth
- ii. There will also be a connection point (no enclosure) in the "Dining Seating Area," closer to the stage
 - 1. Both locations will also have network and power connections
- c. Screen and projector: larger outdoor mechanical screen on the outdoor stage plus a projector
- d. Camera: there will be a truss mounted fixed camera to provide feed to the indoor screen
- e. Dimmers: (one dimmer rack=96 circuits) and multiple amp racks in the storage at the southwest gates into the stage area (west of the WC near the loading dock)
- f. Shade Structure:
 - i. The canopy will need to be 18' to 20' high to support lights and lighting trusses mounted at 16' high
 - ii. Columns will be added to reduce the spans and reduce the column size
 - iii. Canopy will also need to support permanent weatherized loudspeakers
 - If there are heavier low frequency loudspeakers located as delays (one extra set) in the seating area they can be at the columns.
- g. Stage Canopy:
 - i. Acoustically absorptive underside material. Also on upper walls at back of stage (KUCR exterior walls)
 - ii. Separate structure for stage and canopy from KUCR
- h. Stage Access will be reviewed by F&H to provide for loading from south end of stage
- i. Lighting will be truss mounted to the Shade Structure as noted above
 - i. Provide capability for movable lights but no followspots
- 4) Indoor Stage
 - a. Approximate size of the stage is12' x 20'
 - b. Sound / lighting control for the indoor stage:
 - i. The indoor stage will have a sound board connection point on one side of the stage and a lighting control connection point on the other. Neither will be permanent

DPP - UCR Barn Project Phases 1 & 2 – Performance Issues Conference Call - Notes 5/25/10 Page 2 of 3

- ii. Also possible to have connection points for both sound and lighting in the same place, and at two or three locations to accommodate different types of acts and mixing / lighting requirements
- c. Lighting:

Meeting Notes

Performance Issues Conference Call:

- i. Extent of lighting is to be determined
 - 1. Incorporate into existing truss
 - 2. Locations for dimmers are also to be determined
- ii. Provide capability for movable lights but no followspots
- d. Screen and projector: mechanical screen on the stage for viewing live feed from the exterior stage plus a projector
- 5) Ticket Booth
 - a. The Ticket Booth will include the following:
 - i. Terminals for Ticket Master and satellite connection
 - ii. Exterior lighting and canopy overhead
 - iii. Two onsite sales stations (tickets will be preprinted not computer generated)
 - iv. Two sales windows with thick security glass and one safe
 - v. Door to the interior of The Barn, no exterior door

6) Additional Storage

- a. There will need to be additional storage for audio equipment including:
 - i. Mixing boards, mics, stands, cables, and stage monitor cabinets

DPP - UCR Barn Project Phases 1 & 2 – Performance Issues Conference Call - Notes 5/25/10 Page 3 of 3

DBR Presentation: Meeting Notes

UC Riverside Design Review Board Meeting Minutes for April 6, 2010

Board Members			
	Academic Senate Chair, Physical Resources		
Professor John Ganim	Committee	(N)	
Professor Stella Nair	History of Art (CHASS)	(A*)	
Professor Jerome Schultz	Bioengineering (BCOE)	(A)	
Professor Martin Kennedy	Earth Sciences (CNAS)	(N)	
Timothy Ralston	Associate VC, Capital & Physical Planning	(A)	
Don Caskey	Associate VC/Campus Architect, Design & Construction	(A)	
Charles "Duke" Oakley	Steven Ehrlich Architects	(A)	
Rob Quigley	Robert Wellington Quigley, FAIA	(A)	
Kathleen Garcia	Wallace, Roberts & Todd Architects	(A)	
Presenter(s)			
Laura Hartman	Fernau & Hartman	(A)	
Jason Wilkinson	Fernau & Hartman	(A)	
Other Attendees			
Rich Racicot	Office of Design & Construction	(A)	
Mike Delo	Transportation & Parking Services	(N)	
Mike Miller	Facilities, Plant Administration	(N)	
Jon Harvey	Capital & Physical Planning	(A)	
Kieron Brunelle	Capital & Physical Planning	(N)	
Tricia Thrasher	Office of Design & Construction	(N)	
Nita Bullock	Capital & Physical Planning	(A)	
Andy Plumley	Housing Services, Administration	(A)	
Susan Marshburn	Housing Services, Administration	(A)	
Cheryl Garner	Housing Services, Dining	(A)	
Jacqueline Norman	Office of Design & Construction	(A)	
Susan Ryan	Office of Design & Construction	(A)	
Sandi Evelyn-Veere	Office of Design & Construction	(A)	

Attendance (A = Attendance, A* = Arrived After Presentation, N = Not in Attendance)

1.0 <u>Meeting Agenda</u>. The agenda for the April 6th meeting of the Design Review Board (DRB) included:

a. Barn Project Phases 1 & 2, Pre-Design.

Fernau & Hartman presented their pre-design study of the Barn Project Phases 1 & 2 which includes: Barn Dining and Kitchen Addition, Barn Stable, Cottage, KUCR and Barn Theatre.

DBR Presentation: Meeting Notes

2.0 Observations and Recommendations -- Barn Project Phases 1 & 2, Pre-Design.

- a. The DRB provided the following comments:
- 1. Encouraged the design development of interior spaces in the Barn Dining area to address acoustics in order to minimize sound transfer. Acoustical improvements over the existing facility will help improve the dining experience.
- 2. Recommended that meeting rooms with food service be included in the scope of the project.
- 3. The terminus of Eucalyptus and Barn Walks ending in a semi-intersection needs to be addressed in order to provide a more gracious entry into and connection across the campus. This area should be further studied and resolved during design.
- 4. If security and fencing of the courtyards areas are necessary, it is suggested they be developed in a seamless way by using transparent materials for fencing with heights kept to a minimum.
- 5. The freeway's noise generation is only partially mitigated by the existing sound wall. It will be important to study how to minimize traffic noise in the courtyard spaces and how to utilize the building masses as appropriate sound walls.
- 6. Since the project includes old versus new buildings, the design should be balanced in scale and materials. DRB endorsed the concept of older buildings being in the foreground with the new buildings in the background. Material selection should reinforce the concept so new buildings do not overshadow existing.
- 7. The incorporation of trellises in the design needs to be in harmony with the buildings.
- 8. KUCR facility should explore a stronger relationship with the outdoor entertainment space. It was suggested that one way would be to incorporate the use of a multipurpose digital screen on the stage area showing broadcasts.
- 9. The design of potentially five courtyards plays an important role in the development of the site and should be looked at as a series of interrelated courtyards.
- 10. The landscape design should take into consideration the campuses agricultural heritage by developing landscape responses that relate to our early California gardens. This could be done not only with plant material, but hardscape, walls and fences. Permeable paving, such as decomposed granite would also evoke this character. This type of approach would make it a rich site and further tie the old

DBR Presentation: Meeting Notes

to the new. It was further suggested the approach to the landscape design be developed in a "less formal" way than typical campus landscapes.

- 11. The bathroom facility, sited at the entry portal to the north, would be a challenge to design. Sound attenuation and privacy will be concerns. A double-door entry could be considered as well as a water feature in near proximity to the facility.
- 12. Campus guidelines should be developed for The Barn Group to ensure that the development of future phases is in keeping with the current project's direction.
- 13. The west side of The Barn Group needs to be carefully designed, not overlooked or just dealt with in terms of a demanding service function. The concept design for the service road separated from West Campus Drive with a median gives the potential for landscape screening as one, possibly important tool, for the overall design of that face of the project.

The board commended Fernau & Hartman on a well-developed and refined presentation.

Note: Presentation by Fernau & Hartman, available by request.

3.0 School of Medicine Site Change

a. Nita Bullock informed the DRB that the School of Medicine site has changed from the northeast corner of Chicago Ave. and Martin Luther King Blvd., to the northeast corner of Iowa Ave. and Martin Luther King Blvd. The site change will delay the LRDP Amendment process by one year. Nita will provide updates on the status of the LRDP Amendment at future meetings.

4.0 Follow Up and Next Steps.

a. DRB's next meeting is scheduled for May 3, 2009.

Attachments: Barn Project Phases 1 & 2 Area Summary West Campus Analysis – School of Medicine Site Options C1, C2, C3 & D

The following constitutes a summary of topics presented to or discussed by the DRB on April 6, 2010. Recipients of these minutes are encouraged to apprise Sandi Evelyn-Veere of any errors or omissions.

Workshop #4: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC.

2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: May 19, 2010

MEETING NOTES

Project Management Team Meeting #4

PROJECT:	DPP – UCR Barn Project Phases 1 & 2
TIME/DATE:	9:00 AM – 9:30 AM, April 16, 2010
LOCATION:	Capital and Physical Planning Offices

ATTENDEES:

Project Manager	nent Team	
	Kieron Brunelle	Director, Capital and Physical Planning
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
	Susan Marshburn	Executive Director of Housing Services
Consultant Tean	n	
	Laura Hartman	Principal in Charge, Fernau & Hartman Architects
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Scott Lewis	Cost Estimator, Oppenheim Lewis

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

ACTION BY:	ITEM:			
	1. Workshop #4 Goals : The goals for the Workshop #4 are to bring closure to the program and implementation plan.			
	 Performance Issues Conference Call: Reviewed the input of the Theater Consultant and its usefulness for the DPP. 			
	 Draft DPP Text: Some of the text in the draft DPP needs work. The text should be clear and concise. It should also focus positive language and avoid negative language whenever possible. 			
AP	 Allowable Number of Occupants: AP to meet with the Campus Fire Marshal to discuss allowable number of occupants for indoor and outdoor gathering spaces. 			
	 5. Action Items: a. 1.02: JN reported that the Historical resources report will be completed April 26, 2010. The preliminary findings are that the project does not appear to qualify as "historic resources" per CEQA, but the buildings do have cultural significance for the UCR campus and community. b. 2.03: F&H to provide a fee for As-Built drawings after reviewing the recently 			
DPP - UCR E 05/19/10	Sam Project Phases 1 & 2 –DRAFT Meeting Notes from PMT #4, 04/16/10			

Page 1 of 2

Workshop #4: Meeting Notes

ACTION BY:	ITEM:
	 found archived drawings: i. Original drawings (1916 and 1917) for the Cottage, Barn Stable and The Barn ii. Drawings (1985) for the renovation of The Barn after the north end of the structure burned in a fire. c. 3.36: A single emergency generator for both Kitchen (refrigeration and cooking requirements) and KUCR (emergency broadcast requirements) will be included in the cost plan. Incorporating the generator into the site plan will be a challenge given the limited space.
	 6. Schedule: The DPP is currently on schedule and is targeting the upcoming milestones: a. 4/28/10 Administrative Draft DPP: F&H to submit the electronic PDF and one printed copy. b. 5/19/10 Pre-CPAC Conference Call (3:00 to 4:00 PM): Review the materials for the CPAC presentation. c. 5/24/10 CPAC Presentation (2:00 to 2:30 PM)

Workshop #4: Meeting Notes

FERNAU & HARTMAN • ARCHITECTS, INC. 2512 Ninth Street No. 2 • Berkeley California 94710

510.848-4480 fax 510.848-4532

ISSUED: May 20, 2010

MEETING NOTES

Workshop #4: Review DPP and Cost Plan

PROJECT:	DPP – UCR Barn Project Phases 1 & 2
TIME/DATE:	9:30 AM – 3:45 PM, April 16, 2010
LOCATION:	Capital and Physical Planning Offices, Bannockburn, J-102

ATTENDEES:

Project Manage	ement leam	
	Kieron Brunelle	Director, Capital and Physical Planning
	Jacqueline Norman	Senior Project Manager, Office of Design and Construction
	Jon Harvey	Principal Education Facilities Planner, Capital and Physical Planning
	Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
	Susan Marshburn	Executive Director of Housing Services
Steering Comn	nittee	-
-	Andy Plumley	Assistant Vice Chancellor, Housing, Dining and Residential Services
	Susan Marshburn	Executive Director of Housing Services
	Cheryl Garner	Executive Director of Dining Services
	Nita Bullock	Director of Physical Planning, Campus Landscape Architect
	Professor John Ganmin	Faculty Representative, Academic Senate
Consultant Tea	Im	
	Laura Hartman	Principal in Charge, Fernau & Hartman Architects
	Jason Wilkinson	Project Manager, Fernau & Hartman Architects
	Ryan Metcalf	Junior Designer, Fernau & Hartman Architects
	Scott Lewis	Cost Estimator, Oppenheim Lewis

These notes are meant to summarize the issues raised and directions chosen at the meeting. If they differ from your recollection, please contact Fernau & Hartman immediately.

DPP - UCR Barn Project Phases 1 & 2 - Meeting Notes from Workshop #4, 04/16/10 05/20/10 Page 1 of 7

ACTION BY: ITEM:

Workshop #4: Meeting Notes

 Drawings Presented: Two 24" x 36" boards (Composite Site Organization Plan and Outdoor Seating Plan). The draft DPP and illustrations from previous workshops were presented digitally. Naming Conventions: A clarification was made regarding the name of The Barn. Rather than being divided into two separate spaces and referred to as Barn Dining and Kitchen Addition individually, the building should be referred to as a whole, The Barn, which contains both the Kitchen Addition and Barn Dining. The project will include the following buildings: The Barn, Cottage, Barn Stable, KUCR, Barn Theater, and Restrooms. Outdoor spaces will include West Courtyard, East Courtyard, and Barn Stable Patio. Cottage: F&H presented an overview of the program for the Cottage. General Program Discussion F&H F&H to study frontage seating south of the Cottage as a place for visitors "to see and be seen." F&H combine the Storage and Telecom/Electrical closet into one space. A secure office space is needed to support cash counting and other administrative functions, but overall the square footage may be reduced to accommodate a larger storage/Telecom space. Telecom/Electrical was noted as being smaller than suggested by the Communication Services. It was agreed that the size of Telecom/Electrical will be reviewed during design. Outdoor Space to the "Summary" page of the Project Area Summary. The Barn: F&H presented an overview of the program for The Barn. General Program Discussion The current conceptual layout functions well and seating feels comfortable. F&H diafied the function of the three proposed ventilation/light shafts at the indoor dining area. They will bird light into the space and help to move air via the stack effect. A roof mon			
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	DPP - UCR Bar	rn Pro	oject Phases 1 & 2 - Meeting Notes from Workshop #4, 04/16/10

UC RIVERSIDE | THE BARN PROJECT PHASES 1 & 2 | DETAILED PROJECT PROGRAM

ACTION BY:	ITEM:
	 allows the Patio to become an extension of the interior space, with service and guests flowing freely between the two spaces. iii. The shower, included in one of the restrooms, will help achieve the LEED credit SS 4.2 "Alternative Transportation: Bicycle Storage and Changing Rooms."
F&H	 6. KUCR: F&H presented an overview of the program for KUCR, including the new single story plan. a. General Program Discussion As requested, two studio production rooms have been provided. It may be possible to reduce the square footage of the Library, however this issue will require further study during the design phase. F&H to study an informal conference area at the wide hallway near the two Edit/Post-Production Rooms.
	 7. Shared Outdoor Spaces: F&H presented an overview of the program for the outdoor spaces, including seat count. a. Seating Dining seating areas (indoor at the Barn and outdoor at the East Courtyard and West Courtyard), total 6,695 SF, allowing for 332 seats (based on approximately 20 SF/seat). The seat count was found to be acceptable. b. West Courtyard
F&H	 F&H to note in the narrative the option of moving Sound/Lighting control to the back edge of seating in the West Courtyard will be studied further during design.
F&H	 ii. F&H to revise the Outdoor BBQ layout and criteria. It will be a self-contained unit with a BBQ grill, exhaust hood, refrigerator, sink, and POS. The Outdoor BBQ will not be covered by a roof, however a chimney above the cooking area will be need to direct smoke out of the courtyard. Its location along the south edge of the West Courtyard is acceptable, but it does not necessarily need to be attached to the north wall of the
F&H	Kitchen Addition. iii. F&H to revise the site plan to show the Outdoor Condiment Counter and Queuing adjacent to the Outdoor BBQ and Bar.
	 8. Materials: The concept presented by F&H for the use of materials to highlight the hierarchy of the existing, new and tertiary structures was found to be acceptable. a. Existing: Materials at the existing buildings will be consistent with the heritage of these buildings. b. New: The new buildings will employ contrasting materials that allow the structures to recede, maintaining the historic structures as the focal point. c. Tertiary: The tertiary structures will be largely landscape type structures that use materials and plantings to knit together the existing and new buildings.
	9. Site Circulation
F&H	 Landscape Approach. Fait presented a sketch by Eulsko Associates (Landscape Architect) for the intersection of the Eucalyptus Walk, the Barn Walk and West Campus Drive. F&H will incorporate the landscape sketch of southeast corner on a larger
DPP - UCR Bar 05/20/10 Page 3 of 7	rn Project Phases 1 & 2 –Meeting Notes from Workshop #4, 04/16/10

Workshop #4: Meeting Notes

ACTION BY:	ITEM:
	site plan to better illustrate the surrounding context.
F&H	 b. Vehicle Access The drive aisle near the Barn Loading Dock allows approximately 10 feet of clearance for a car to pass while a truck is unloading. Sproul Loading Dock: A simplified Sproul Loading Dock layout without a truck turnaround was accepted. F&H to revise the wall at the north end of the Sproul Loading Dock to allow for fire truck through access. The accepted scheme provides a reconfigured area for service cart storage (4 spaces for media services and 2 spaces for service vehicles) and a location for trash and recycling bins. Access will be limited to service vehicles (no public). Nita Bullock to confirm that an ADA space is not required if these
NB	service spaces are considered "cart storage" rather than "parking."
	10. Systems
	 a. Steam and Chilled Water: There are times when the campus steam and chilled water system is shut down. i. Housing to confirm with Physical Plant (between DPP and design) the timing for when steam and chilled water are shut down. ii. Critical services that need to be maintained at the Kitchen Addition are refrigeration and domestic hot water. b. Heating (Cooling
	 i. Radiant system proposed for Barn Stable Lobby and KUCR. ii. Forced air system proposed for Barn Kitchen and Cottage. iii. Radiant systems are preferred for the Barn Stable and Barn Dining, However this system will be studied during design for its ability to respond to quick changes for heating and cooling loads. Forced air in these spaces would be the alternative.
NB	 c. Electrical i. Site Lighting: NB to check with Physical Plant to see if (and how many) existing campus streetlights would be available to incorporate into the project.
	 Barn Kitchen and KUCR require backup power from a shared diesel- powered generator. An acoustical cover will not be needed. Location and size of generator to be determined during design.
	 d. Security i. UCR Physical Plant to provide infrastructure for security systems (up to points of access), Barn project to carry systems across site and provide all required devices.
OLI SM/CG	ii. OLI to include wiring for all systems (assume none will be wireless).iii. Susan Marshburn (SM) and CG to provide electronic door access (card swipe) count and camera count.
	 e. A/V and Internet Access i. Speakers at Barn Dining, Cottage, and Barn Stable Meeting Room. ii. An empty conduit will be provided at the Lighting/Sound booth for running coaxial cable to and from KUCR.
JH	iii. Wireless internet access to be provided across entire site. JH to confirm who provides wireless nodes.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #4, 04/16/10 05/20/10

Workshop #4: Meeting Notes

Workshop #4: Meeting Notes

ACTION BY:	ITEM:
	 LEED: F&H presented a draft assessment of the project LEED checklist. a. LEED Certification Level: While LEED Silver Certification is required by UCR for The Barn Project, LEED Gold is the current target. This level of certification is largely dependent on connection to the campus steam and chilled water system.
OLI	b. Enhanced Commissioning: OLI will add Enhanced Commissioning to the Cost Plan as a "below the line" item.
	12. Phasing and Implementation
	c. Phase 1
	 Initial work in Phase 1 will include items identified as having potential schedule complications or other risks. These include: moving the Barn Stable and the utility work. Ideally this work would begin before Summer 2011.
	ii. Phase 1A
	 Phase 1A will include: the Kitchen Addition, the Cottage, the Loading Dock Area, and the Drive Aisle along West Campus Drive. The Kitchen Addition should be up and running before the end of summer. Maintaining a functioning kitchen is critical during the school year. The Kitchen Addition will require at least a 12-month window for completion.
	completion.
	 Demolition of the current University Club meeting space can occur in Phase 14
	iii Phase 1B
	Phase 1B will include: Barn Dining the East Courtward, and the
	Restrooms east of The Barn
	 During the school year when Barn Dining is under construction, the Barn Stable, Cottage, and related seating areas can be used for dining and be served by the Kitchen Addition.
	d. Phase 2
	i. Phase 2 will include: the West Courtyard, Stage, and KUCR.
	ii. The construction fence at the west side of The Barn will be close to along the west side of the building, allowing for exiting only. No West Courtyard seating will be provided during Phase 2.
	 This approach will provide a clean division between Phases 1 and 2. It was agreed that construction activities would be too disruptive to outdoor dining at the West Courtyard.
	e. Preliminary Scheduling
F&H	 F&H to develop a preliminary design and construction schedule. ii. Construction to begin sometime between spring and early summer of 2011. iii. Construction Scheduling will be clarified once design begins and there is a better understanding of project engineering. A Construction Manager at Risk (CMAR) will be hired early in the design phase to help facilitate construction scheduling and implementation.
	Halting construction during the lunch hours, however, will have a significant impact on costs
	v. During Phase 2, due to the construction of the West Courtyard, there will be a significant lack of outdoor seating. Overflow seating may be provided at the Barn Stable, Barn Stable Patio, and/or frontage seating to the south of the Cottage.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #4, 04/16/10 05/20/10
ACTION BY:

OLI

OLI

OLI

ITEM:

Workshop #4: Meeting Notes

13. Cost Plan : Scott Lewis (of OLI) presented the cost plan, including assumptions.
a General Flements
i. Site work directly associated with each building was included with that
building.
ii. Utilities connections associated with each building were included with that
building. (Note: the majority of the utility work will occur in Phase 1)
iii. Phases run without a break between.
iv. Preparation of the ground surface for the Phase 2 staging area will be
completed during Phase 1.
v. OLI to revise the Cost Plan so that the 10% design contingency is
expressed as a line item and not rolled into the estimate.
vi. Estimates were obtained from local contractors for the relocation of the
Cottage and the Barn Stable. The estimates were considered very low, and
So a multiplier was applied to ensure the item is sufficiently covered in the
vii OLL to add a line item for HAZMAT work by owner, per the HAZMAT report
dated February 19, 2010.
viii. Chillers, boilers, etc. are not included in Mechanical rooms. Estimate
assumes that project will tap into existing steam and chilled water system.
ix. OLI to provide an updated version of the Cost Plan.
b. Structures / Materials
 Seismic work for the existing buildings can be done from inside.
ii. Masonry: Kitchen Addition, KUCR, Restrooms.
iii. Stud framing: additions (Barn Dining and Barn Stable).
IV. Interior walls will include curbs at the Kitchen Addition.
 Wood may be used in place of metal, but pricing for metal allows
flexibility for cost plan
vi. Pitched roofs were assumed for all new construction.
 KUCR will require a metal roof due to the low slope.
 Roofs may not be gables, but pricing as such allows for flexibility for
the Cost Plan.
vii. Light wells and clerestories are included in estimate.
c. Finishes
i. Patch/paint existing wood at Theater as a "below the line" item.
II. Allowances were made for polished or colored concrete for floors at Barn Dining and Barn Stable Meeting
Diffing and Dam Stable Meeting.
d Value Engineering: Kieron Brunelle related the project will approach hudget
constraints through a "value added" approach rather than simply cutting
costs.
e. Cost Plan Revisions/Clarifications
i. In order to calculate rent for KUCR, the Stage and Backstage will be called
out as "Allowance included in the Cost Plan in order to show the cost of
these spaces.
ii. The Schedule is needed for preparing the business plan.

DPP - UCR Barn Project Phases 1 & 2 –Meeting Notes from Workshop #4, 04/16/10 05/20/10

Page 6 of 7

ACTION BY:	
	iii. Assume a CMAR will be used. Bid packages are preferred.
	iv. Cost Plan does not include the Barn Theater.
	v. It will be determined in design if Sproul Loading Dock will be part of the
	project.
	vi. A new UC delivery system allows campus projects under \$60M to proceed at risk.
	f. "Below the Line" Items: will be treated as alternatives.
	i. Alterations to Sproul Hall Loading Dock
	ii. On-site chiller and boiler in lieu of campus connection
	iii. Audio visual equipment as described in DPP report
	iv Emergency power for Kitchen Addition and KUCB
	v. Construction Management Preconstruction Services
	vi Enhanced Commissioning / 3 rd Party Commissioning
	vii Patching and painting the Barn Theater
	viii Security Devices
	14. Next Steps
	a. Project
	 Program and phasing have been approved.
	ii. Design to be carried through construction documents (on all parts of the
	project, including KUCR). F&H noted that a year will likely be required for
	design.
	iii. Bidding/approval process will take at least two months.
	iv. Ideally, construction to begin sometime between spring and early summer
	of 2011.
	v. CPAC presentation may be deferred until June.
	b. Materials
	i. DPP
F&H	 F&H to review discrepancies between project area summary and room
	data sheets including the net-to-gross ratio
F&H	 F&H to remove dimensions from drawings contained in room data
	sheets
F&H	 F&H to work through literary portions of DPP
F&H	 F&H to include backup documentation (important decisions and
1 di l	directives) in Appendix
	ii. Decumentation
INI	II. Documentation
	• Jiv to provide record drawings of existing dam structures (dating from 1016 1017 and 1095)
	1910-1917 dilu 1900).
	 Geotech report also needed early in design. Site survey to be completed before design begins.
	 Site survey to be completed before design begins.

Workshop #4: Meeting Notes

Correspondence

INDEX OF CORRESPONDENCE

February 5, 2010	UCPD Review (letter)	March 12, 2010	Walnut Tree Location (email including diagram)
February 8, 2010	Sproul Loading Dock Truck Access (email)	March 22, 2010	Barn Theatre Study – Performing Arts (letter)
February 12, 2010	Sproul Loading Dock_Cart Storage_Parking (email)	April 5, 2010	Existing Barn Performances (spreadsheet)
February 22, 2010	Electrical Review (letter and diagrams)	April 5, 2010	Barn Seat Utilization Study (email)
February 23, 2010	Trash Truck Information (email)	April 8, 2010	Central Plant Utility Connection Costs (email)
February 24, 2010	Plumbing Review (letter)	April 8, 2010	Stage Equipment Costs (email)
March 2, 2010	Kitchen Addition Loading Dock_Truck Length (email)	April 12, 2010	KUCR Broadcast Equipment in Cost Estimate (email)
March 4, 2010	KUCR Program Areas (email)	April 15, 2010	Seating Count Issues (email)
March 4, 2010	Telcom Closet Sizes from Communication Services (email)	April 19, 2010	Historical Resources Review (email)
March 12, 2010	HVAC Utilities (email including diagrams)	April 21, 2010	Naming Conventions (email)
March 12, 2010	KUCR Media in Linear Feet (email)	April 23, 2010	Emergency Generator (email)
March 12, 2010	Proposed KUCR Radio Tower Location (email)	May 10, 2010	Campus Steam Shutdown Schedule (email)
		November 16, 2009	Dining Master Planning Study (spreadsheet)

Correspondence

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BERKELEY \$ DAVIS \$ IRVINE \$ LOS ANGELES \$ MERCED \$ RIVERSIDE \$ SAN DIEGO \$ SAN FRANCISCO



POLICE DEPARTMENT

3500 Canyon Crest Drive Riverside, CA 92521-0218 Phone: (951) 827-5222 Fax: (951) 683-1639 http://www.police.ucr.edu

February 5, 2010

To: Jonathan C. Harvey, Principal Educational Facilities Planner Fr: John Freese, Lieutenant, University of California Police Department Re: Barn Area Study – Safety & Security Issues

Crime Prevention Through Environmental Design (CPTED)

This project should employ the CPTED concepts to provide a space that is welcoming to patrons and discourages criminal behavior.

Main areas of concerns:

-Adequate lighting in and around the structures that is pedestrian friendly and mitigates dark areas that could provide hiding places for the criminal element.
-Low lying landscaping that eliminates hiding places and keeps an open line of sight between the facilities and parking areas.

Security/Surveillance Cameras

There is a need for a security camera system that is consistent with current campus systems. -Coverage of at least the cashier, box office, and alcohol service and consumption areas. -Internet IP address accessibility with pan/tilt/zoom control for UCPD Communications to access in the event of a police response (UCPD will not monitor the system on a routine basis).

-DVR storage of video footage consistent with current campus time frame standards.

Burglary/Panic Alarms

At a minimum, there should be an entry and motion detector alarm for the main buildings, including KUCR. Panic alarms should be installed at the cashier, and box office, and KUCR main desk and DJ areas.

Access Control

Permanent fencing is needed around the alcohol consumption area to prevent patrons from passing alcoholic beverages through to people outside of the area.

Some type of fencing or barricade is needed around the KUCR radio tower to prevent people from climbing and/or tampering with the tower.

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: FW: Barn Project Phase 1 & 2 Loading Dock Question Date: February 8, 2010 1:10:03 PM PST

- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

FYI

Jon

From: Mike Terry [mailto:Mike.Terry@ucr.edu]
Sent: Friday, February 05, 2010 8:49 AM
To: jon.harvey@ucr.edu
Cc: Kieron Brunelle; Susan Marshburn (<u>susan.marshburn@ucr.edu</u>); Mike Miller
Subject: RE: Barn Project Phase 1 & 2 Loading Dock Question

Jon,

Here's an update on your information request.

Per Toshio Ishida, Asst Director Landscape & Refuse Services:

"The refuse and recycling pick-ups are made with standard refuse trucks. Average size = 13 ft high, 38 ft long, and 9 ft wide. The refuse is picked up everyday Mon-Fri and recycling is twice a week. Recycling will not change as of right now. Refuse may move to a different unit, the length may increase a few feet. I don't have current specs because we have not had a final decision on what we will use. It will require at least the same amount of space as now.

That area is already very tight now. We have to pull in and have a spotter back us all the way out past the lift gate each day. I would not recommend making it any smaller than it is. When cars are present on both sides, we have a very hard time now. If you need more information let me know."

I have not received a reply from Material Management on the size of their vehicles and frequency of use, but they do not have any larger than the P Plant refuse trucks.

Thanks, Mike

Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: FW: Barn Project - Student Special Services Parking

Date: February 12, 2010 9:03:19 AM PST

To: "Jason Wilkinson" <jw@fernauhartman.com>

Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

Let me know if you have any questions or require additional information related to the Student Special Services parking requirements by the loading dock.

Thanks

Jon

From: Mike Delo [mailto:Mike.Delo@ucr.edu] Sent: Friday, February 12, 2010 8:59 AM To: jon.harvey@ucr.edu Cc: Andy Steward (andrew.stewart@ucr.edu); Kieron Brunelle; marcia.schiffer@ucr.edu; Tammie Pierce; Enci Naghshineh; Lenita Kellstrand Subject: RE: Barn Project - Student Special Services Parking

Jon,

TAPS and Student Affairs have agreed to transition disabled student transport service to TAPS effective July 1. So, it is likely that Student Special Services will not retain its transport vehicles that now park in the Sproul Hall service area. That demand for the two parking spaces in the Sproul Hall loading dock will go away.

Maybe this factor will increase the likelihood of retaining disabled parking spaces within the loading dock area.

Let me know if other information is required.

Mike

From: Jon Harvey [mailto:jon.harvey@ucr.edu] Sent: Thursday, February 11, 2010 1:52 PM To: Mike Delo Cc: Andy Steward (andrew.stewart@ucr.edu); Kieron Brunelle; marcia.schiffer@ucr.edu Subject: Barn Project - Student Special Services Parking

Mike,

At last week's Barn Project Phase 1 & 2, workshop, parking at the Sproul Hall loading dock was discussed. Student Special Services is one group that parking two transport vans in the area.

As part of the Medical Infrastructure Phase 1 project, Student Special Services completed a survey which described

the Student Mobility Services operation. Transport vans are parked at various locations through out the day, and are parked overnight at dedicated spaces across from Sproul Hall loading dock. Student Special Services is open to finding an alternative overnight parking location for the vans per conversation with Marcia Schiffer, Director, Services for Students with Disabilities Special Services,

Request that you contact Marcia Schiffer to identify another transport vans parking location, which will free space in the Sproul Hall loading dock area.

Please let me know how long it will take to identify the location, and the proposed implementation timeframe.

Thanks

Jon

Jon Harvey Capital & Physical Planning 951-827-6952

Barn Project Electrical Review

In reviewing the project description for the Barn Project Phase 1 and 2 and relocation of the cottage Physical Plant would like to make the following electrical recommendations. For review, I have attached a copy of the underground electrical drawings, and an outline of the buildings each feeder serves.

- This area is the main thoroughfare for all of the campus electrical utility systems. Any
 excavations would need to take place with extreme consideration to this fact. If any one of
 these feeders becomes compromised it would cause significant campus power outages as each
 feeder serves multiple buildings.
- The Barn is currently fed from the 5kv substation and has an 800 amp service. We recommend
 upgrading the service to at least 1200 amps to accommodate the described improvements.
- During this improvement Physical Plant would require the new service to be tied in to the 12kv substation. This can be accomplished by tying in to the 12kv in vault 3 next to the parking lot exit for the cottage.
- Additionally the transformer would need to be replaced in order to accommodate the 1200 amp service and to be tied in to the 12kv system.
- Physical Plant would retain the old 800 amp service and transformer. These items should not be disposed of or resold by the contractor.

Because of the sensitivity of this area electrically to the campus I would welcome the opportunity to be involved during the ongoing planning process. Please feel free to contact me directly for any additional information or questions.

Eric Shuler Electrical Shop Supervisor 951+827-4596 Fax ericshuke Queedu UCRIVERSITY OF COLLEGATION



LOT 30

MC

From: "Jon Harvey" <jon.harvey@ucr.edu>

- Subject: FW: Barn Project Trash Truck Information
 - Date: February 23, 2010 4:14:42 PM PST
 - To: "Jason Wilkinson" <jw@fernauhartman.com>
- **Reply-To:** "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

FYI

Jon

From: Mike Terry [mailto:mike.terry@ucr.edu] Sent: Tuesday, February 23, 2010 4:08 PM To: jon.harvey@ucr.edu Cc: Mike Miller; Kieron Brunelle; Toshio Ishida Subject: RE: Barn Project - Trash Truck Information

Jon,

As discussed earlier today, per Toshio Ishida, Asst. Director Landscape & Refuse Services, the trash truck radius is the same as the large fire truck turning radius identified in the City of Riverside bulletin already supplied to you. Please let me know if you need that info sheet resent. Thanks.

Mike

Barn Project Plumbing Review

Cottage has no storm area drains (use of parking lot and street)

Recommend area drain installations for new location be connected to street mains 18"-24" depending on location.

In reviewing the project description for the Barn Project Phase 1 & 2 and relocation Physical Plant would like to make the following plumbing recommendations.

Barn building utilities:

Water is provided from Campus owned water mains (12" with pressure of 110psi to 135 psi) with 6" domestic supply which supplies 6" Barn fire main and 2" domestic Barn supply followed by second 6" feed (valve) for Stable 2" fire main and Theater 2-1/2" fire main.

Recommend that water system modifications still be provided from Campus owned water mains with addition of Service Protection Backflows.

Gas is provided by Southern California Gas Co. meter with additional ³/₄" feed lines underground to the Stable and theater buildings currently capped off. (non use)

Recommend that gas continue to be provided by Southern California Gas Co.

Sewer mains system A has been upgraded in size to 12" and is located in the street area with 4" lateral for Barn sewer system.

Recommend that any Barn sewer system changes include new laterals to new 12" main sewer.

Barn has very little small storm discharge lines from site to street storm drains 18" to 24" in size.

Recommend same use and connections be to 18" and 24" storm drains.

Cottage building utilities:

Water sized is %'' domestic connected to the campus 12" water main in the street to Cottage with additional small %'' water line from this system %'' underground to Cottage garage exist.

Recommend new water supply to campus water main in area with service protection.

Sewer system "A" 12" in street had lateral for Barn 4" and 1-1/2" for garage.

Recommend new sewer to Cottage be connected to Sewer system "B"

Natural gas ¾" supplied by Southern California Gas Company.

Recommend new service line from Southern California Gas Company extending to new site location.

Thanks

Jerry Higgins

UCR Plumbing Supervisor

951-827-7696

Jerry.Higgins@ucr.edu

From: "Jon Harvey" <jon.harvey@ucr.edu> Subject: FW: Sysco truck length Date: March 2, 2010 3:53:10 PM PST To: "Jason Wilkinson" <jw@fernauhartman.com> Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

From: Cheryl Garner [mailto:Cheryl.Garner@ucr.edu] Sent: Tuesday, March 02, 2010 2:00 PM To: Susan Marshburn; jon.harvey@ucr.edu; llanier@laschobersovich.com Subject: FW: Sysco truck length

It appears that our primary vendor does deliver in a 54 foot tractor and trailer. This obviously would be the very largest truck. Cheryl Garner Director of Dining Services University of California, Riverside Office: (951) 827-5857 Cell: (951) 333-4700

If you don't like change, you're going to like irrelevance a lot less. Tom Feltenstein

From: Gary Burton [mailto:gary.burton@ucr.edu] Sent: Tuesday, March 02, 2010 10:11 AM To: Cheryl Garner Subject: Sysco truck length

Cheryl,

The overall length of the tractor and trailer is 54ft.

Sorry to be late in responding but I have been out sick for a few days.

Regards,

Gary

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: RE: UCR Barn DPP - Area Comparison

Date: March 4, 2010 2:17:10 PM PST

- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Cc: "Laura Hartman" <lh@fernauhartman.com>, "Kieron Brunelle" <kieron.brunelle@ucr.edu>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

The program will need to clearly identify all of the spaces in KUCT facility.

Following suggestions are made after reviewing materials obtained to date.

KUCR Program

- 1. An overall station size of 2,800 to 3,000 asf seems fine. Hope that the following comments do not necessarily expand the program
- 2. Private Offices: Director, Assistant Director/Program Director, Music Department, and Engineering Department. Suggest an office size of 110 to 120 asf per office. This provides a reasonable work space, file storage, and side chairs. The space allocation can vary by function area (e.g., all offices 110 asf except the engineer who would get a larger space for a small work bench).
- 3. Open office: Administrative Assistant, and News/Public Affairs.
- 4. The list of space for either of the above office types can be expanded if spaces are identified.
- Prefer to change name from Kitchenette to Office Service / Kitchenette. Space serves multiple functions (e.g., refrigerator, microwave, sink, coffee counter, copy machine, etc).
- Add storage room for Remote Live Equipment. Given the condition of the existing facility, including a second storage room does not seem reasonable.
- 7. Suggest assigning 48 asf for each Edit/Post/Production Space, and review the size of the remaining production spaces.
- 8. My impression was the Conference Room would be an actual conference room that could also be used for some production work. As presented, the room is more of a studio. Agree that three studio spaces are needed based upon the tour, with the last being a place that can support a small group of people. The conference room (10 to 15 stations) replaces the Backstage/Flex Space.
- 9. When was the Green Room added to the program? Having two green rooms

in a complex of this size does not seem necessary.

- 10. Are two restrooms needed if the building has two floors?
- $11. \ \mbox{Review}$ and update footnotes. Add a note that explains the Library space reduction assumption.

Barn Annex

12. Change the Banquet Room name to Meeting Room. Adjust the size from 1066 to 1016 asf to accommodate the additional storage space.

Thanks

Jon

From: Jason Wilkinson [mailto:jw@fernauhartman.com] Sent: Wednesday, March 03, 2010 5:55 PM To: Jonathan Harvey Cc: Laura Hartman Subject: UCR Barn DPP - Area Comparison

Hi Jon,

Please see attached.

This is a draft. I would like to get your feed back on the changes and we need input for KUCR.

Thanks, Jason

Jason Wilkinson Fernau & Hartman Architects, Inc. (t) 510.848.4480 (f) 510.848.4532 http://www.fernauhartman.com

Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: FW: Barn Telcom Closet Sizes

Date: March 4, 2010 10:42:22 AM PST

- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>
 - ▶ . 1 Attachment, 4.0 KB

Jason,

The size of telecom closet per communications is below for your information.

Jon

From: Tim Gable [mailto:timgable@ucr.edu] Sent: Thursday, March 04, 2010 10:35 AM To: jon.harvey@ucr.edu Subject: RE: Barn

Yes, that is correct...

Cell: 951-522-4599

Regards, Tim Gable, RCDD, OSP **Campus Planner Communications Services Telephone Building** TY OF GALIFORNIA Voice: 951-827-4584 Fax: 951-827-5600

From: Jon Harvey [mailto:jon.harvey@ucr.edu] Sent: Thursday, March 04, 2010 8:14 AM To: Tim Gable Subject: RE: Barn

Tim,

Just want to confirm that the space below is for the telecom closets in each building.

Jon

From: Tim Gable [mailto:timgable@ucr.edu] Sent: Thursday, March 04, 2010 6:07 AM To: jon.harvey@ucr.edu Subject: Barn

Jon

As a follow up to our discussion this past Friday; The Barn area contains two (2) conduit runs, the current feed on the South side of the Barn and an existing duct bank on the West side of which we would like to feed the new KUCR building from.

Based on the current preliminary information the amount of space required at each facility is as follows;

Barn - 10' X 12' KUCR -10' X 10' Barn Annex - 6' X 8' Barn Theater - 6' X 8' Cottage - 6' X 8'

Please contact me if you have any questions.

Thank you,

Regards. Tim Gable, RCDD, OSP **Campus Planner Communications Services** Telephone Building



Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu> Subject: FW: Barn Project HVAC utilities Date: March 12, 2010 3:20:02 PM PST To: "Jason Wilkinson" <jw@fernauhartman.com> Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

2 Attachments, 1.7 MB

Jason,

FYI

Jon

----Original Message-----From: Jacqueline Norman [mailto:Jacqueline.Norman@ucr.edu] Sent: Friday, March 12, 2010 2:58 PM To: jon.harvey@ucr.edu Subject: FW: Barn Project HVAC utilities

Jon,

Please find attached additional comments that were sent to Rich, with attachments.

Jacqueline Norman | Office of Design and Construction | University of California, Riverside | 951.827.6316

----Original Message-----From: Chris Flanders [mailto:Chris.Flanders@ucr.edu] Sent: Friday, February 26, 2010 9:28 AM To: Richard Racicot; patrick.simone@ucr.edu; Jacqueline Norman Subject: RE: Barn Project HVAC utilities

Rich,

I revisited this, and discussed it with our two veterans (Frank Porter and Steve Benart, who have been here since Anderson Hall was built I think). We all agree that the most likely POC is Vault 15, which I overlooked during Geovision's walk. This high-ceilinged vault contains large services directly from the plant, with blanked-off isolation valves for both services (CHWS/R, steam, condensate return). There is a manhole access located in the sidewalk intersection between Watkins Hall and University Theater. From there the Barn is in your line of sight, with only an access road as an obstacle...distance maybe 250 feet as the crow flies.

Hopefully they will do careful engineering for this connection. While we do not have any direct evidence of capacity problems with condensate return on that particular line, we have had a troubling history with that system where it returns along the Vault 6-9-10 route. We suspect that we are at max capacity over there, so it deserves some attention. At the very least, any new connections should definitely include some gauge ports & service valves etc. for monitoring. Increasing the condensate return line size on that route would be fairly straightforward until you get to the plant...increasing the size from the plant entrance to the receiver looks like a big problem though.

My personal suggestion: if these utilities are tapped for this project, they should be oversized between Vault 15 and the project area POC, to make future upgrades more convenient. We would also be very interested in the plumbing plan at Vault 15 POC, to ensure that maintenance and repair access is not compromised there.

Attached is a schematic of Vault 15 utilities (no sizes shown). FYI, Steve Benart has been surveying the entire tunnel system and producing these schematics. Our goal is to create a schematic of the entire tunnel system, to create a comprehensive valve schedule and try to catch up on thirty years of deferred construction record-keeping. Within a few months I hope to bring Steve's drawings to Jeff Salto's folks for conversion to a CAD master plan.

Chris Flanders Climate Control Supervisor University of California, Riverside Steam Plant ph (951)827-6335 fx (951)827-5404 chris.flanders@ucr.edu

-----Original Message-----From: Richard Racicot (mailto-Richard Racicot@ucr edu) Sent: Thursday, February 25, 2010 4:42 PM To: Chris Flanders Subject: RE: Barn Project HVAC utilities

At this time the proposal for GeoVision was to conduct their survey around the Barn Area. it did not include areas back to the utility tunnels. The survey was outlined to include all areas around the Barn Area up to the face of the surrounding buildings. Yes, if an addition survey is needed to one of the tunnel locations we will conduct an additional survey if needed. During this Phase of the project, we are trying to determine if it is cost effective to supply utilities to the

298

Barn project from the one of the tunnels. The length of the connection could be the cost breaker. What are your thoughts. As always, that's for your input.

Richard W. Racicot, A.I.A. Assistant Vice Chancellor

Facilities - Design & Construction 3615-A Canyon Crest Drive Riverside, California 92507 951.827.1277 Office 951.827.3890 Fax



Drip Leg Steam Trap 1 3/	'4" Armstrong 800	
XXX Expansion Joints 1, 2, 3 and 4	12" Ball/Swivel, Chilled Water Return	
	-	-



Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: FW: UCR Barn DPP - Proposed KUCR Radio Tower Location

Date: March 12, 2010 5:07:10 PM PST

- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>
 - 1 Attachment, 54.0 KB

From: LJ Vandenberg [mailto:louis.vandenberg@ucr.edu] Sent: Friday, March 12, 2010 4:37 PM To: jon.harvey@ucr.edu Cc: Andy Plumley; Susan Marshburn; Kieron Brunelle Subject: Re: UCR Barn DPP - Proposed KUCR Radio Tower Location

We examined this today. This location is less than ideal. It may work but, it is close. The problem is Sproul Hall, blocking, or close-to-blocking, line-of-sight to Box Springs. Even if it works, it would delimit the station from alternative sites on the Box Springs Mountains, which would be shadowed by Spoul. It would be safer to loacte the site more south-east, which would be my recommendation.

lv

----- Original Message -----From: Jon Harvey To: Louis Vandenberg Cc: Andy Plumley ; Susan Marshburn ; Kieron Brunelle Sent: Wednesday, March 10, 2010 8:30 AM Subject: FW: UCR Barn DPP - Proposed KUCR Radio Tower Location

Louis,

The proposed location of the KUCR tower is listed below.

Please review and provide comments no later than Friday, March 12, close of business.

Thanks

Jon

From: Jason Wilkinson [mailto:jw@fernauhartman.com] Sent: Tuesday, March 09, 2010 6:18 PM To: Jonathan Harvey Cc: Laura Hartman Subject: UCR Barn DPP - Proposed KUCR Radio Tower Location

Hi Jon,

Please see the attached image from Google Earth with the proposed location for the KUCR Tower.

"Proposed KUCR Radio Tower" lat=33.9724173738, lon=-117.331025337

Feel free to contact me if you have any questions.

Regards, Jason Jason Wilkinson Fernau & Hartman Architects, Inc. (f) 510.848.4480 (f) 510.848.4482



Correspondence

- From: "Jon Harvey" <jon.harvey@ucr.edu>
- Subject: RE: UCR Barn DPP Tree Location
- Date: March 12, 2010 8:56:06 AM PST
 - To: "Jason Wilkinson" <jw@fernauhartman.com>
 - Cc: "Laura Hartman" </heith@fernauhartman.com>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>
 - 1 Attachment, 275 KB

Jason.

We are trying to plot the locations and hopefully this will be finished this afternoon. Once completed, the approximate location of the trees (plus or minus three feet) in an around the site will be identified.

Attached is the approximate location of the walnut tree from three campus points, and photos of the tree for your information and use.

We are interested to know the impact to the program by retaining the tree.

Thanks

Jon

From: Jason Wilkinson [mailto:jw@fernauhartman.com] Sent: Thursday, March 11, 2010 4:46 PM To: Jonathan Harvey Cc: Laura Hartman Subject: UCR Barn DPP - Tree Location

Hi Jon,

If it is important for us to design KUCR around the Walnut tree, not knowing the location is holding us up. We need this information as soon as possible. Otherwise, please let us know if we should move ahead without trying to save the tree.

Thanks, Jason

Jason Wilkinson Fernau & Hartman Architects, Inc. (1) 510.848.4480 (1) 510.848.4532 http://www.fernauhartman.com



Barn Project Phases 1 & 2 March 12, 2010

Approximate diameter of the tree (orange tape) is 30 inches





Barn Project Phases 1 & 2 March 12, 2010

Approximate location of the Walnut Tree Requires field verification



		Approximate
Point	Description	Distance
А	Light pole, west side of West Campus Drive	89 ft
В	Speed Bump right lane marking	46 ft
С	SW Corner of Barn Stable	34 ft

From: "Jon Harvey" <jon.harvey@ucr.edu> Subject: FW: Barn Theatre Project

- Date: March 22, 2010 8:03:55 AM PDT
- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>
 - 1 Attachment, 27.5 KB

Jason,

Per WS-3

Jon

From: Nathaniel Jones [mailto:natej@ucr.edu] Sent: Friday, March 19, 2010 4:42 PM To: jon.harvey@ucr.edu Cc: 'Paul Richardson' Subject: Barn Theatre Project

Hello Jon:

It was good to see you this morning. I also enjoyed chatting with you over lunch. As discussed, please find an electronic copy of the document I provided you today. As I indicated earlier, the gross scaling of the Barn Theatre and related spaces appears to be adequate to support the likely programmatic use of these facilities. The document provided highlights both general and specific programmatic requirements that would need to be taken into account during the design development phase of the project. Also thoughtful consideration needs to be given to issues of phasing, constructability, security, access and programmatic use of shared/multi-user spaces. I look forward to our continued work on this project. If you have any questions, please feel free to contact me. Take care.

Nate

Nathaniel Jones III, Ph.D., MBA Assistant Dean & Chief Jinancial & Administrative Officer College of Humanities, Arts & Social Sciences University of California at Riverside 900 University Ave Riverside, CA 92521 951-827-7975 (fax) 410-952-3652 (Mobile 1) 951-237-2168 (Mobile 2)



Barn Theatre Study CHASS Performing Arts Programming Analysis

<u>Usage:</u>

Dance Department intends to use the space 15 hours per week for studio courses and MFA project rehearsals. Music Department currently uses the space 38 hours per week for courses, rehearsals and music clubs. They would expect the usage to expand depending on the size expansion. Theatre Department is considering use of the space for student works, rehearsals, performances and coursework. The department chair expects the usage to be up to 36 hours per week. The Department of Theatre expects at least one course per quarter to be scheduled in the Barn Theatre. All departments would expect to benefit from the building transformation. This would allow additional rehearsal and performance space to better support the current academic programs.

Facility Attributes:

A few facility attributes are missing or need to be altered in order to accommodate the three departments. The new construction calls for a basic restroom facility. An expanded restroom facility could include dressing areas and make-up tables. Clothes/costumes racks installed in the restroom areas would be a great benefit. In review of the conceptual estimate, there is not a mention of an installed lighting or sound grid. The lighting grid would need to be included on the interior and exterior portions of the facility. Electrical distribution would have to be included as well as with the proper power requirements. The structural grid will need to support such a lighting system. The existing flooring would have to be extended throughout the facility. Network capabilities have been requested due to the programming from the departments. Three data/communication lines would need to be provided for the office and rehearsal spaces. Adequate HVAC, acoustics, security features, general power and lighting must also be provided. A water fountain should be added as well.

Physical Expansion:

Expanding the physical space is easily the most crucial part of this project. The ability to allow multiple activities and have the capability to perform with an audience is of the most importance. A soundproof wall system between rehearsal 01 and rehearsal 02 is crucial in order to maximize the expected use. Separate exterior entrances would be necessary to both rehearsal areas. Each area must be designed to be usable by all anticipated users. Flooring systems that are flexible enough to be used for dance, music and theatre would be ideal. Alternatively, a flooring system could be installed for the primary use and a protection system provided to cover the floor for the other uses.

Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu> Subject: FW: Barn Performances Date: April 5, 2010 10:11:12 AM PDT To: "Jason Wilkinson" <jw@fernauhartman.com> Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

2 Attachments, 52.7 KB

	Jason,
	FYI
	nol
From: Sent: M To: jon Cc: Sus Subjec Import	Cheryl Garner [<u>mailto:Cheryl.Garner@ucr.edu]</u> Aonday, April 05, 2010 9:52 AM <u>.harvey@ucr.edu</u> an Marshburn; Andy Plumley t: Barn Performances tance: High
	Jon,
	Attached is the information that you requested regarding the types of events that are currently performing at the Barn. I had them add the genre and the size of the group where possible so that you would be able to size the stage – or at least have some information that might assist in sizing it. I also had then identify how many people attended the event – for your purposes this is the number noted under "In". This might assist us in deciding how big the space needs to be in front of the stage.
	Please note: They would like to schedule Video Game Tournaments, Movie Nights, Sports Event Viewing and Karaoke inside the Barn, which requires a package of equipment. I will send you a quote of the types of equipment that they are interested in.
	Please call if you have questions regarding the information.
	Cheryl Garner
	Director of Dining Services
	University of California, Riverside
	Office: (951) 827-5857
	Cell: (951) 333-4700

If you don't like change, you're going to

like irrelevance a lot less.

Tom Feltenstein

From: Jonathan Cubos [mailto:Jonathan.Cubos@ucr.edu] Sent: Monday, April 05, 2010 9:07 AM To: Cheryl Garner; Albert Esqueda; Cedric Martin Cc: David Sakover; Pam.Trimble@ucr.edu Subject: Seat Utilization Info & Barn Music Conference call Info Importance: High

Good Morning,

I have attached the Seat Utilization chart for 3 days of Lunch Service, 3 spread sheets of Past, current and possible future Barn Music Events and the very scaled down version of a Music System for the Barn. If there are any question please contact David or myself.

Thank you,

Jonathan A Cubos

Senior Operations Manager

The Barn, Ivan's and Bear Tracks

3595 Canyon Crest Drive

Riverside, CA 92507

Office (951) 827-2777

Barn Music I....xls (50.0 KB)

email: jonathan.cubos@ucr.edu

From: "Jon Harvey" <jon.harvey@ucr.edu> Subject: FW: Barn Seat Utilization Study Date: April 5, 2010 10:11:56 AM PDT To: "Jason Wilkinson" <jw@ternauhartman.com> Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

FYI

Jon

From: Cheryl Garner [mailto:Cheryl.Garner@ucr.edu] Sent: Monday, April 05, 2010 9:34 AM To: jon.harvey@ucr.edu Cc: Susan Marshburn Subject: Barn Seat Utilization Study

Jon,

We conducted the seat utilization study at the Barn last week and I wanted to share some general information with you that may assist us in determining the mix of tables that will be required. I looked at the interior seating and the exterior seating separately as we frequently find they differ, and they indeed did. It appears the larger parties preferred to sit outside.

Our seat utilization currently is approximately 53% inside and 61% outside. Our average party size is 2.5 customers.

Here is the breakdown for tables:					
Interior				If 4 tops are	
Patio		Interior %	Required	ganged	
25	2 tops	49.02%	76% - 2 tops	76% - 2 tops	
14	1 tops	27.45%	22% - 4 tops	24% - 4 tops	
11	3 tops	21.57%	2% - 6 tops		
1	7 tops	1.96%			
Exterior		Exterior		If 4 tops are	
Detie		0/			
Patio		%	Required	ganged	
35	2 tops	% 37.63%	57% - 2 tops	ganged 57% 2 tops	
35 18	2 tops 1 tops	% 37.63% 19.35%	Required 57% - 2 tops 31% - 4 tops	ganged 57% 2 tops 43% 4 tops	
35 18 19	2 tops 1 tops 3 tops	% 37.63% 19.35% 20.43%	Required 57% - 2 tops 31% - 4 tops 6% - 6 tops	ganged 57% 2 tops 43% 4 tops	
18 9	2 tops 1 tops 3 tops 4 tops	% 37.63% 19.35% 20.43% 9.68%	Required 57% - 2 tops 31% - 4 tops 6% - 6 tops 6% - 8 tops	ganged 57% 2 tops 43% 4 tops	
Patio 35 18 19 9 4	2 tops 1 tops 3 tops 4 tops 5 tops	% 37.63% 19.35% 20.43% 9.68% 4.30%	Required 57% - 2 tops 31% - 4 tops 6% - 6 tops 6% - 8 tops	ganged 57% 2 tops 43% 4 tops	
Patio 35 18 19 9 4 2	2 tops 1 tops 3 tops 4 tops 5 tops 6 tops	% 37.63% 19.35% 20.43% 9.68% 4.30% 2.15%	Required 57% - 2 tops 31% - 4 tops 6% - 6 tops 6% - 8 tops	ganged 57% 2 tops 43% 4 tops	
Pailo 35 18 19 9 	2 tops 1 tops 3 tops 4 tops 5 tops 6 tops 7 tops	% 37.63% 19.35% 20.43% 9.68% 4.30% 2.15% 4.30%	Required 57% - 2 tops 31% - 4 tops 6% - 6 tops 6% - 8 tops	ganged 57% 2 tops 43% 4 tops	

The 6 tops and 8 tops may also be translated into 4 tops if we use squares and assume that they will be ganged together, so you may adjust those counts as required. I strongly suggest that we do this for the 8 tops. If the decision is made to add 6 tops – it would only be about 6% of the exterior mix and just one or two tables inside.

Cheryl Garner Director of Dining Services University of California, Riverside Office: (951) 827-5857 Cell: (951) 333-4700

If you don't like change, you're going to like irrelevance a lot less. Tom Feltenstein

Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu>

- Subject: Barn Project Central Plant Utility Connection Costs
 - Date: April 8, 2010 4:51:33 PM PDT
 - To: "Jason Wilkinson" <jw@fernauhartman.com>
 - Cc: "Kieron Brunelle" <kieron.brunelle@ucr.edu>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

During WS-3 direction provided was to examine the costs for direct connections to the Central Plant steam and chilled water lines and a stand-alone system.

Assume that the stand-alone system would be a boiler and chiller, which would provide the campus with the capability to connect to central plant steam and chilled water at a later date. It is not clear how the option could be achieved, or where the equipment would be accommodated on the site inside a mechanical room.

Request that the costs for options be clearly identified and that the direct connection be provided above the line, and options below the line.

Thanks

Jon

Jon Harvey Capital & Physical Planning 951-827-6952

Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu>

- Subject: RE: UCR Barn DPP Performance Issues Discussion
 - Date: April 8, 2010 8:41:04 AM PDT
 - To: "Jason Wilkinson" <jw@fernauhartman.com>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

Stage equipment costs will need reported in the cost estimate as a below the line number. UCR will not furnish any figures.

We will need to get meeting notes for the conference call that shows the outcomes / direction.

Thanks

Jon

From: Jason Wilkinson [mailto:jw@fernauhartman.com] Sent: Wednesday, April 07, 2010 9:20 PM To: jon.harvey@ucr.edu Subject: Fwd: UCR Barn DPP - Performance Issues Discussion

Hi Jon,

I wanted to send this as a follow up to the conference call we had on Monday to confirm the direction. There is some outstanding issues that may not need to be resolved for the deliverable on Monday. One question is what portion of the stage equipment should be included in the estimate and what will be provided by UCR?

Thanks, Jason

Correspondence

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: RE: UCR Barn DPP - KUCR broadcast Equipment in Cost Estimate?

- Date: April 12, 2010 8:18:51 AM PDT
- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Cc: "Laura Hartman" < h@fernauhartman.com>, "Ryan Metcalf" <rm@fernauhartman.com>

Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

Providing the figure would be helpful. The number must be below the line since the cost of the equipment would be funded by the station.

Thanks

Jon

From: Jason Wilkinson [mailto:jw@fernauhartman.com] Sent: Thursday, April 08, 2010 7:16 PM To: Jonathan Harvey Cc: Laura Hartman; Ryan Metcalf Subject: UCR Barn DPP - KUCR broadcast Equipment in Cost Estimate?

Hi Jon,

Should new broadcast equipment for KUCR be included in the estimate?

Thanks, Jason Jason Wilkinson Fernau & Hartman Architects, Inc. (1) 510.848.4480 (1) 510.848.4532 http://www.fernauhartman.com

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: FW: Barn Project - Updated Project Area Summary

Date: April 15, 2010 1:01:08 PM PDT

To: "Jason Wilkinson" <jw@fernauhartman.com>, "Laura Hartman" <lh@fernauhartman.com> Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason, Laura,

FYI

Jon

From: Cheryl Garner [mailto:Cheryl.Garner@ucr.edu] Sent: Thursday, April 15, 2010 12:12 PM To: jon.harvey@ucr.edu; Andy Plumley (andx,plumley@ucr.edu); don.caskey@ucr.edu; Jacqueline Norman; John Ganim; Kieron Brunelle; Nita Bullock; nziad001@ucr.edu; richard.racicot@ucr.edu; Susan Marshburm (susan.marshburm@ucr.edu); Timothy Ralston Cc: Cheryl Garner Subject: RE: Barn Project - Updated Project Area Summary

I thought I would provide a little information for us to review as we think about seating:

Total Estimated Lunch Transactions	640	
Total Estimated Peak Lunch Hour Transactions (50%)	320	
Estimated Seat Turnover (45 minutes)	1.333	
Net Seats Required (Occupied)	240	
Gross Seats Required @ 75% Utilization	320	
10% customers take out food	-32	
Total seats required	288	
Current Seating	301	

There are of course some variables that might change the required seating. For example, our current seat utilization is much lower than 75% based on the table sizes. If I use 65% utilization, the required seating would be 332 rather than 288. Also, we have not accounted for seating for those purchasing coffee, so we will need a margin of error for that as well.

You are currently suggesting 276 seats for the Barn interior and the East and West Courtyard which is less than the 288 required at 75% utilization and without the coffee customer seating.

Cheryl Garner Director of Dining Services University of California, Riverside Office: (951) 827-5857 Cell: (951) 333-4700

If you don't like change, you're going to like irrelevance a lot less. Tom Feltenstein From: Jon Harvey [mailto:jon.harvey@ucr.edu] Sent: Wednesday, April 14, 2010 4:33 PM To: Andy Plumley (andy.plumley@ucr.edu); Cheryl Garner (cheryl.garner@ucr.edu); don.caskey@ucr.edu; Jacqueline Norman; John Ganim; jon.harvey@ucr.edu; Kieron Brunelle; Nita Bullock; nziad001@ucr.edu; richard.racicot@ucr.edu; Susan Marshburn (susan.marshburn@ucr.edu); Timothy Ralston Subject: Barn Project - Updated Project Area Summary

Steering Committee,

Seating capacity in the interior and exterior dining areas was reviewed and updated

Revised figures are provided in the attached Project Area Summary revised April 14, 2010.

Total number of seats was reduced from the previous summary as follows:

Interior Barn Dining - from 108 seats to 94 seats Barn Stable - from 50 seats to 43 seats

Exterior East Courtyard – from 134 seats to 122 seats West Courtyard – from 82 seats to 60 seats Barn Stable Patio – remains at 44 seats

The updated outdoor seat counts (188) corresponds with the figure presented in WS-1, while the number of interior seats is less (original target was 108 seats).

Please let me know if you have any questions or concerns with the revised figures.

Thanks

Jon

Jon Harvey Capital & Physical Planning 951-827-6952

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: FW: Barn Group and Cottage

Date: April 16, 2010 8:08:29 AM PDT

To: "Jason Wilkinson" ⊲jw@fernauhartman.com>, "Laura Hartman" ⊲lh@fernauhartman.com> Reply-To: "jon.harvey@ucr.edu" ⊲jon.harvey@ucr.edu>

Jason, Laura

FYI

Jon

From: Jacqueline Norman [mailto:Jacqueline.Norman@ucr.edu] Sent: Friday, April 16, 2010 8:03 AM To: jon.harvey@ucr.edu Subject: FW: Barn Group and Cottage

FYI – update on Cultural Resources Update.

Jacqueline Norman | Office of Design and Construction | University of California, Riverside | 951.827.6316

From: Tricia Thrasher [mailto:tricia.thrasher@ucr.edu] Sent: Wednesday, April 14, 2010 10:55 AM To: Jacqueline Norman Subject: FW: Barn Group and Cottage

FYI

Tricia D. Thrasher, ASLA, LEED AP Principal Environmental Project Manager UCR Office of Design & Construction

From: Casey Tibbet [mailto:casey.tibbet@lsa-assoc.com] Sent: Wednesday, April 14, 2010 10:44 AM To: Tricia Thrasher Subject: Barn Group and Cottage

Hi Tricia,

It was very nice meeting you in person this morning. I appreciate all the information you have provided.

As we discussed, based on the field survey and research the barn group and the cottage do not appear to qualify as "historical resources" pursuant to the California Environmental Quality Act (CEQA). However, they are clearly important to the UCR campus and I would strongly urge you to keep the group together and maintain the rustic character that defines these buildings and

gives some sense that they are associated with the earliest history of the campus. If you haven't done so already, it might be nice to have some sort of historical display in the Barn to reinforce its history.

The historical resources assessment will be submitted to you by April 26, 2010. Please let me know if you have any questions.

Casey Tibbet, M.A. Senior Architectural Historian/Historian

LSA Associates, Inc. 1500 Iowa Avenue, Suite 200 Riverside, CA 92507 951-781-9310 951-781-4277 (fax)

From: "Jon Harvey" <jon.harvey@ucr.edu>

Subject: RE: UCR Barn DPP - Schedule

Date: April 21, 2010 8:43:36 AM PDT

- To: "Jason Wilkinson" <jw@fernauhartman.com>
- Cc: "Laura Hartman" <lh@fernauhartman.com>, "Kieron Brunelle" <kieron.brunelle@ucr.edu>
- Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

Jason,

This morning is open with the exception of a 10:30 meeting.

Naming conventions were reviewed at WS-3 were Barn Dining, Kitchen Addition, Barn Theater, Cottage, and Barn Stable.

Comments on the text have challenged the naming convention associated with the Barn since comments typically remove the word Dining from the name. Discussion following WS-4 concluded that the Barn refers to both Barn Dining and Kitchen Addition. Unfortunately there are also problems with this approach.

The Official Name of the dining facility is "The Barn" per the Campus Space Inventory system, and the name should therefore be used in the report. The balance of the names should follow the naming convention adopted at WS-3. Suggest that the report introduction address the "The Barn" name adjustment.

Thanks

Jon

From: Jason Wilkinson [mailto:jw@fernauhartman.com] Sent: Tuesday, April 20, 2010 5:47 PM To: Jonathan Harvey Cc: Laura Hartman Subject: UCR Barn DPP - Schedule

Hi Jon,

I was not able to complete the schedule today. I apologize for any inconvenience, however there are many considerations and want to feel confident in the draft document. We have some questions that we would like to go over with you tomorrow morning if possible. Please let us know your availability.

Also we were reviewing our notes and were not sure about the naming convention for "The Barn." Should we refer to the new portion as the "Kitchen Addition" or just "(N)" similar to the annotations for the Barn Stable and Barn Theater?

Regards,

Jason Jason Wilkinson Fernau & Hartman Architects, Inc. (1) 510.848.4480 (1) 510.848.4532 http://www.iernauhartman.com

From: "Jon Harvey" <jon.harvey@ucr.edu> Subject: FW: Barn Project Phases 1 & 2 Emergency Generator

Date: April 23, 2010 2:03:59 PM PDT

To: "Jason Wilkinson" <jw@fernauhartman.com>

Reply-To: "jon.harvey@ucr.edu" <jon.harvey@ucr.edu>

1 Attachment, 4.1 KB

Jason,

Information on the emergency generator fuel type and fuel supply requirements are below.

Thanks

Jon

From: Eric Shuler [mailto:eric.shuler@ucr.edu] Sent: Friday, April 23, 2010 1:46 PM To: Mike Terry; jon.harvey@ucr.edu Cc: Kieron Brunelle Subject: RE: Barn Project Phases 1 & 2 Emergency Generator

Our preference is red diesel, and we would require a 3 day capacity.

Eric Shuler Electrical Shop Supervisor UCRIVERSITY OF CALFORNIA UCRIVERSITY OF CALFORNIA UDAY BALL Department of Physical Plant 3401 Watkins Drive Riverside, California 92521 951-827-3112 Office 951-827-4596 Fax eric.shuler@ucr.edu

From: Mike Terry [mailto:mike.terry@ucr.edu] Sent: Friday, April 23, 2010 1:36 PM To: jon.harvey@ucr.edu Cc: Kieron Brunelle; Eric Shuler Subject: RE: Barn Project Phases 1 & 2 Emergency Generator Good afternoon! I will have a reply sent to you by the end of work Monday 26APR10. Thanks, Mike

From: Jon Harvey [mailto:jon.harvey@ucr.edu] Sent: Friday, April 23, 2010 9:27 AM To: Mike Terry Cc: Kieron Brunelle Subject: Barn Project Phases 1 & 2 Emergency Generator

Mike,

An emergency generator is being considered for the Barn Project Phases 1 & 2 to supply power to the kitchen refrigeration units, emergency lights, and KUCR. The size of the generator will be determined by the consultant team.

Request preferences for emergency generator fuel supplies, and if diesel, the capacity of the fuel tank in days.

We would appreciate a quick response (no later than Monday) so the information can be incorporated into the draft report.

Thanks

Jon

Jon Harvey Capital & Physical Planning 951-827-6952

Correspondence

Barn Renovation Program Statement

November 16, 2009

Demand Analysis

Number of Classroom Seats within a 3 minute walk of the Barn	361	7
Estimated Future Utilization of Classroom Seats - 11am-2pm	759	% Now 69%
Estimated Potential Student Customers	271	3
Current Ratio of Faculty/Staff to Students	329	%
Estimated Potential Faculty/Staff Customers	86	8
Total Potential Customers	358	1
Projected "Design Day" Capture Rate - All Customers	459	% Current Capture Rate is 34.3% Non-Resident Students & 32.3% Faculty/Staff
Projected Transactions of Student Customers within a 3 minute walk of the Barn	122	1
Projected Transactions of Faculty/Staff Customers within a 3 minute walk of the Barn	39:	1
Total Projected Transactions of Customers within a 3 minute walk of the Barn	161	1
Projected Distribution of Student Transactions between the Barn and the HUB	30% / 70%	30% Barn and 70% HUB
Projected Distribution of Faculty/Staff Transactions between the Barn and the HUB	70% / 30%	70% Barn and 30% HUB
Total Estimated Student Lunch Transactions at the Barn	36	6
Total Estimated Faculty/Staff Lunch Transactions at the Barn	273	3
Total Estimated Lunch Transactions:	640	0 Current Average Lunch Trasactions are 301
Contraction Description		

Seating Requirements

Total Estima	ted Lunch Transactions	640	1
Total Estima	ted Peak Lunch Hour Transactions (50%)	320	1
Estimated Se	eat Turnover in Peak Hour (45 minute occupancy)	1.33333333	1
Net Seats Re	quired (Occupied)	240	1
Gross Seats	Required (@ 75% Seating Efficiency)	320	Current Seating = 183 outdoor seats and 118 indoor seats
Less Estimat	ed Take-Out Factor (10%)	-32	1
Total Estima	ted Seats Required	288	
Ind	oor Seats	110	1
Ou	tdoor Seats	178	1

Space Requirements

Program Area		ASF	Notes
Production Kitchen			
	Cold Prep	960	Cold Production for Barn, Barn/University Club Catering and 425 pieces packaged grab and go products daily.
			Grille Line adjacent to Servery with pass-through window for finished products; Bulk hot production line to include finish baking
	Hot Production (Cook Line and Grille Production)	640	capability; Ice maker.
	Refrigerated Storage - Bulk Food	120	Walk-in Cooler
	Refrigerated Storage - Finished Product Cooler	120	Walk-in Cooler
	Refrigerated Storage - Beer Cooler	80	Walk-in Cooler; Lockable
	Frozen Storage	120	Walk-in Freezer
	Dry Storage - Food	360	Wire Rack Shelving
	Dry Storage - Liquor	30	Lockable
	Dry Storage - Catering Equipment (Barn and University Club)	80	Wire Rack Shelving; Lockable
	Receiving, Recycling and Outbound Staging Area	200	Receiving; Outbound Cart Marshalling; Food waste bin; Compostable bin.
	Subtotal:	2710	
Warewashing			

Correspondence

	Dishwashing	352	Conveyor Dishmachine; Space includes Chemical Storage
	Potwashing	100	Pot Sink; Shelving
	Janitor's Closet		Mop Sink; Cleaning Equipment Storage
	Chemical Storage		
	Subtotal:	500	
Back of	House Support		
	Unisex Employee Toilet	80	
	Unisex Changing Room & Lockers	60	12 Lockers and Changing Bench
	Manager's Office	80	
			2 stations shared by - 1 Sr. Mgr.; 1 Entertainment Mgr.; 1 Principle Supervisor (Barn); 1 Principle Cook (Barn); 1 Principle Supervisor
	Production Office	120	(Truck). Includes Safe for cash handling.
	Subtotal:	340	
Serving			
			Exhibition Kitchen and Servery; (4) POS; (2) Exhibition Production Platforms - Salad/Sandwich, Pizza (Woodstone Oven); These
	Serving Area	480	Platforms and the Grille Platform all funnel to Expediting/Pick-up Station seperated from POS.
	Customer Queuing	400	Serpentine Queue System (next available cashier).
	Self-Serve Beverage Counter & Queuing	96	Adjacent to interior Service Bar.
			Opening into interior and exterior; Service Bars on each side (beer taps and bottled wine); (1) bar sink and (1) under counter glass
	Double-sided Service Bar	96	washer.
	Self-Serve Condiment Counter & Queuing	48	
	Subtotal:	1120	
Indoor	Seating & Stage		
	Indoor Seating	1760	110 Seats; Café Style Seating
	Performance Stage	By Architect	
	Subtotal:	1760	
	Total Indoor ASF:	6430	
Outdoo	r Space		
	Loading Dock	By Architect	3 Bays - 2 Vehicle; 1 Trash/Recycling (Trash dumpster; Recycling containers for oil waste, paper, compostables); Mat/cart washing area.
	Outdoor Seating	2848	178 Seats; Café Style Seating
	Outdoor BBQ	100	Outdoor gas BBQ with exterior refrigeration; gas line; (1) POS; hot/cold wells.
	Outdoor Condiment Counter & Queuing	48	
	Total Outdoor ASF:	2996	
	Total Indoor/Outdoor ASF:	9426	

Correspondence

University Club Design Criteria - Food Service Areas November 16, 2009

Back of House Pantry

Provide the following:

3 compartment sink with soiled pot shelving and clean pot shelving
Cart parking area with electrical outlets for 4 carts
Cook line with exhaust hood, to include (1) two-basket fryer, (1) 36" griddle with oven below
8-10' work counter with undercounter dishmachine for glassware
Plating table
1 wire rack shelf/lockable cage for liquor storage
1 section roll-in refrigerator
1 hand sink

Bar

Provide the following:

Bar top and die with beer taps, (1) POS, and undercounter ice maker Back bar to include undercounter refrigeration, undercounter dishwasher and bar sink

Janitor Closet

Provide the following:

Mop sink Cleaning equipment storage for the facility Chemical Storage

Correspondence

Dear Campus Community:

Due to annual campus maintenance requirements, steam systems serving all campus buildings will be shut down:

Starting

Monday, June 14, 2010 at 8:00 pm And continue until Tuesday, June 22, 2010 at 7:00 am

Full steam service will be restored to all buildings by the end of the day, June 22, 2010.

Impacted services include: Domestic hot water heating, space heating, Humidification, soil sterilization, Autoclave sterilization, cage washers, etc.

Critical repairs must be performed to ensure a reliable and energy-efficient supply of steam to all campus facilities.

We are aware of the inconvenience this will cause to some operations, particularly research. The Physical Plant staff is available to help you determine the effect of this shutdown on your areas, and will work with you to provide solutions wherever possible.

Thank you for your cooperation.

Any questions or concerns should be addressed to:

Chris Flanders Climate Control Supervisor 951-827-6235 Chris.flanders@ucr.edu

OR

Pat Simone Assistant Director of Energy & Utility Services 951-827-6464 <u>Patrick.simone@ucr.edu</u>

Correspondence

Coffee Shop Program Statement

November 16, 2009

Space Requirements

Program Area		ASE	Notes
Flogran		AJE	NOLES
Back of House Support			
	Dry Storage	64	
	Refrigerated Storage - Bulk	36	Walk-in Cooler
	Office	64	
	Potwashing	60	
	Unisex Employee Toilet	48	If required by code
	Ice Making/Prep/Miscellaneous Support	48	
	Janitor's Closet/Chemical Storage	24	
	Subtotal:	344	
Serving			
			Espresso and specialty coffees; Brewed coffee; Blenders; Bakery display case (2 section - ambient & refrigerated); Undercounter
	Serving Area	150	dishmachine
	Customer Queuing	120	Serpentine Queue System (next available cashier).
	Self-Serve Condiment Counter & Queuing	24	
	Subtotal:	294	
	Total Indoor ASF:	638	
Outdoor Space			
	Outdoor Seating	By Architect	36 Seats Desired; Porch Seating in Keeping with the Architectural Integrity of the Historic Structure
	Total Outdoor ASF:	By Architect	