ADDENDUM NO. 3

May 10, 2022

BIDDING AND CONTRACT DOCUMENTS

FOR

SPIETH HALL ROOF REPLACEMENT AND MECHANICAL UPGRADE PROJECT NO. 950599 CONTRACT NO. 950599-LF-2022-84





The following changes, additions, or deletions shall be made to the following documents as indicated for this Project; and all other terms and conditions shall remain the same.

1. LIST OF DRAWINGS

Replace List of Drawings with one included in this Addendum.

2. DRAWINGS

<u>Add SK-1, PHASING PLAN</u> <u>Add SK-2, PIPING SUPPORT DETAIL</u> <u>Add SK-3, ROOF EXHAUST DUCT MATERIAL TYPES</u>

3. <u>Request for Clarification</u>

RFI				
No.				
3-1	Question: With current delays and issues with supply chain can the project duration change based on the actual lead time after the purchase of the equipment?			
	Answer: The Contract duration is 9 months to allow for long lead times. However, if the lead time for some equipment requires a contract time extension, the University will consider issuing a \$0 cost change order extending the time. That is, with no additional cost to the University.			
3-2	Question: How many phases does this project have? Please provide the phasing of this project?			
	Answer: Refer to attached phasing sketch SK-1 for requirements.			
3-3	Question: During the phasing of this project, will you have any temporary exhaust or cooling requirements? If yes, please provide exact sizes and procedures?			
	Answer: No temporary exhaust or cooling required. Work shall be done during the shutdown period with no impact to supply.			
3-4	Question: During the job walk we noticed a copper line that runs in the middle of the roof, which is marked as "Lab Vacuum" .This line is not shown on drawings, but will you have any requirement regarding this line?			
	Answer: Protect the existing vacuum piping from damage during construction. Contractor shall be responsible for any damages during construction.			



0.5					
3-5	Question: Per Drawings M1.1 and M1.2, Grids 14xH 3 pair of refrigeration lines going from first floor				
	to the roof. See attached snip. During the job walk they did not look like they are visible, but are they inside a shaft?				
	If they are inside a shaft, access will be required, so would provide a detail on how will they be				
	supported?				
	(13A) (14)				
	3 PAIR OF REFRIGERATION LINES 10 400 CFM 1				
	LIQUID AND SUCTION				
	REFRIGERANT PIPING UP THRU SERVICE				
	(E) 1/2° CONDENSATE DRAIN				
	Answer: Existing refrigerant pipe riser is located within wall shaft. Contractor shall cut opening and				
	patch and paint wall to match existing. Support vertical refrigerant piping at floor level per attached				
	sketch SK-2.				
	Question: Devidenting M0.2 Concept Nation #4. Free land action 4 hotest bull with the back				
3-6	Question: Per drawing M2.3, General Notes, #4: Fume hood exhaust ductwork shall be welded 24 gage stainless steel. Spec section 23311-3, 2.2, C shows that minimum 18 gauge				
	24 gauge is very difficult to weld and it will look really bad, we recommend minimum 18 gauge SS.				
	Answer: Provide minimum 18-gauge welded SS ductwork per SMACNA.				
3-7	Question: Spec Section 23311-3, 2.2, C shows that we are to use for exposed duct 316L with 4				
• •	finish is a brush finish which is extremely expensive and requires much more labor and it would be a				
	waste to have it on the roof. Since this duct is on the roof and exposed to weather, can we use 304				
	SS or 316 SS ductwork with 2b finish?				
	Answer: Provide 316L SS with 2B finish. 304 SS is not acceptable.				
3-8	Question: Please clarify if Ductwork connected to room 2245 Sterilizer Hood needs to be welded SS				
	ductwork?				
	Answer: Exhaust branch ductwork serving Room 2245 Sterilizer Hood shall be welded stainless				
	steel per plan.				
2.0	Question: Der ME 1 and M2 2 meet of the brenches are welded steinlass steel dustwark				
3-9	Question: Per M5.1, and M2.3, most of the branches are welded stainless steel ductwork However; main ducts on the roof are 48", 40", 52", 46x60 between grids 17 & 17A and 48x24 between				
	grids 7 & 9. See attached highlighted ductwork. Will the main ducts above need to be welded SS or				
	just galvanized?				
	I I I I I I I I I I I I I I I I I I I				
	Answer: All galvanized ducts shall be minimum 18 gauge and constructed of -10 in. w.g. per SMACNA and Specification Section 23 3113. Refer to attached sketch SK-3 for duct material types.				
	and opcompation dection 200000 . There is allactical sketch on- $3000000000000000000000000000000000000$				



3-10	Question: Drawing does not show any <u>guy wires</u> for the stack. Will there be any guy wires requirements, if yes, please provide a detail to how it will be attached to the <u>roof</u> and to the <u>duct</u> .
	Answer: Guy wires are not allowed for welded SS stack support per detail 8/M5.2 Note #2 and 1/S5.1
3-11	Question: Spec section 230900 has very detailed DDC controls specifications. Please provide the existing type of controls at this building?
	Answer: No existing DDC controls for the exhaust fan systems. Contractor shall provide new standalone DDC controls for exhaust system capable for future BACnet connection.
3-12	Question: Will UCR be having a 3rd party commissioning agent? or all commissioning will be done by the control contractor?
	Answer: UCR will hire 3 rd party commissioning agent under direct contract with the University.
3-13	Question: Please provide pictures of existing roof assembly and what it consists of.
	Answer: Existing as-built drawings for the north portion of the building are not available, however the roof system appears to be a ballast gravel composition roof over rigid foam insulation with a cover/protection board. Refer to the asbestos reports for locations of hazardous materials and photos of roof core samples provided with this response.
3-14	Question: Please provide staging area(s) for dumpsters for roof demo.
	Answer: Dumpsters to be placed at the Construction Laydown Area. Refer to Division 01 5200 Construction Facilities.
3-15	Question: We received an extensive asbestos report that has testing very much everywhere in the building. Please confirm that we are responsible for asbestos removal only at related locations that are related to our work which are on the roof and the 4 cooling rooms?
	Answer: Confirmed. The contractor is responsible for asbestos removal for areas of work indicated in the drawings.
3-16	Question: Since we are to demo multiple exhaust fans that services <u>Fume Hoods</u> , will there be any <u>hazardous</u> material in these old exhaust fans? Who will scrub the old exhaust fans if any hazardous material exists?
	Answer: Contractor shall coordinate with UCR EHS to conduct a specific hazard assessment prior to construction activity to determine if there could be contamination or concern. If any contamination is present, a plan specific to that concern will be formulated. Prior to work on all fume hoods at UCR, researchers are required to clean the interior of their lab hoods with soap and water and then the hoods are tagged to show they are ready for contractor work. Most contamination would have resided in the hood itself. During construction, any identified contamination cleanup or special work requirements beyond typical worker PPE should be brought to the attention of the University's Representative for consultation with EHS.
3-17	Question: Manufacturer confirmed that direct drive is not available for this size EF USF-54 30hp.
	Answer: The new EFs shall be belt drive due to space limitation. The EF model scheduled per plan is correct.

END OF ADDENDUM







LIST OF DRAWINGS

SHEET NO.	TITLE	DATE
G0.1	TITLE SHEET	02/02/22
A0.1	(E) ROOF PLAN, SELECTIVE DEMOLITION	02/02/22
A0.2	(E) EXISTING PARTIAL BASEMENT FLOOR PLAN	02/02/22
A0.3	(E) EXISTING PARTIAL 1 ST FLOOR PLAN	02/02/22
A0.4	(E) EXISTING PARTIAL 2 ND FLOOR PLAN	02/02/22
A0.5	(N) ROOF PLAN	02/02/22
A0.6	DETAILS, NOTES AND SYMBOLS	02/02/22
S0.1	GENERAL NOTES	02/02/22
S2.1	ROOF FRAMING PLAN	02/02/22
S5.1	STRUCTURAL DETAILS	02/02/22
<u>SK-1</u>	PHASING PLAN	<u>05/10/2022</u> Addendum 3
<u>SK-2</u>	PIPING SUPPORT DETAIL	05/10/2022 Addendum 3
<u>SK-3</u>	ROOF EXHAUST DUCT MATERIAL TYPES	05/10/2022 Addendum 3
M0.1	SYMBOLS, DESIGNATION & ABBREVIATION	02/02/22
M0.2	MECHANICAL SCHEDULES	02/02/22
M1.1	FIRST FLOOR MECHANICAL PLAN	02/02/22
M1.2	SECOND FLOOR MECHANICAL PLAN	02/02/22
M1.3	ROOF MECHANICAL DEMOLITION PLAN	02/02/22
M2.3	ROOF MECHANICAL RECONSTRUCTION PLAN	02/02/22
M5.1	EXHAUST AIRFLOW DIAGRAM	02/02/22
M5.2	MECHANICAL DETAILS	02/02/22
M5.3	MECHANICAL DETAILS	02/02/22
M5.4	MECHANICAL DETAILS	02/02/22
E0.1	SYMBOLS, DESIGNATIONS AND ABBREVIATIONS	02/02/22
		<u>04/18/22</u> <u>Addendum 2</u>
E1.0	BASEMENT POWER DEMOLITION PLAN	02/02/22 04/18/22
		Addendum 2
E1.1 E1.2	FIRST FLOOR POWER PLAN SECOND FLOOR POWER PLAN	02/02/22 02/02/22
E1.3	ROOF POWER DEMOLITION PLAN	02/02/22 04/18/22
		Addendum 2
E2.1	BASEMENT POWER RECONSTRUCTION PLAN	<u>02/02/22</u>
		04/18/22
E0.4		Addendum 2
E2.4	ROOF POWER RECONSTUCTION PLAN	02/02/22
E5.1		02/02/22
E6.1	SINGLE LINE DIAGRAM (DEMOLITION)	<u>02/02/22</u> 04/18/22
		<u>04/18/22</u> Addendum 2
E6.2	SINGLE LINE DIAGRAM (RECONSTRUCTION)	<u>Addendum 2</u> 02/02/22
E0.2		04/18/22
		<u>Addendum 2</u>
L		



END OF LIST OF DRAWINGS



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May 9th, 2022

Fernando Canon Senior Project Manager University of California, Riverside Planning, Design & Construction Office: 951-827-4821

Subject: UCR Spieth Hall Roof Replacement & Mechanical Upgrades - Addendum #3

SUMMARY OF REVISIONS

MECHANICAL

SK-1:

1. Phasing plan to allow maximum 12-hour shutdowns.

SK-2:

1. Piping wall support detail for new refrigerant piping in existing shaft riser.

SK-3:

1. Roof exhaust duct construction material clarifications.





MECHANICAL UPGRADE







Reviewed for Code Compliance

FILE 120-07-05 DATE 05-09-22 ADDENDUM #3 DRAWING NUMBER SK-1









1ST FLOOR



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30,065 CFM 42"Ø 50"Ø <u>____</u>____ - EF ISOLATION M-3 DAMPER M-1 — (TYP.) - 56"Ø м-40"Ø - 15"Ø - 14"Ø - 12"Ø - 10"Ø - 14"Ø - 10"Ø └── 12"Ø 9"Ø 10"Ø 13"Ø — 10"Ø └─ 9"Ø - 15X10 Reviewed for Code Compliance 9900/22 — 14X14 🕴 CFM 1,205 |^{_}_____10"Ø |^{_}____12X10 |^{_}____10"Ø |^{_}____10X10 | CFM – 12X4 18X4 -FUME FUME TOILETS TOILETS FUME FUME FUME FUME 250 CFM STERILIZER HOOD HOOD 350 HOOD HOOD 435 HOOD HOOD 1,090 CFM 710 CFM 710 CFM CFM 710 CFM 830 CFM 710 CFM CFM <u>12X6</u> <u>12X10</u> └─ 13"Ø TOILETSTOILETS770 CFM550 CFM FUMEFUMEHOODHOOD300 CFM500 CFM

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SPIETH HALL ROOF REPLACEMENT & MECHANICAL UPGRADE





	CITCLE FOR CLEAR WE HAVE.
	APPROVED UC RVPED UC RVPEND Office of Planning, Design & Construction Signer and Completion Building Softy and Completion CAMPUS BUILDING PERMIT
SUPPORT DETAIL	FILE 120-07-05
(N.T.S.)	DATE 05-09-22
DENDUM #3	DRAWING NUMBER SK-2

