ADDENDUM NO. 2

APRIL 20, 2022

BIDDING AND CONTRACT DOCUMENTS

FOR

UCPATH ROOFING PROJECT
PROJECT NO. 950566
CONTRACT NO. 950566-LF-2022-76

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. Each bidder is responsible for transmitting this information to all affected subcontractors and suppliers before the Bid Deadline.

1. INFORMATION AVAILABLE TO BIDDERS

Remove the Information Available to Bidders and **Replace** it with the one issued in this Addendum.

a. **Add** Terracon Field Report, December 4, 2022, 8 pages
b. **Add** Terracon Roof Core Information Attachment C, 3 pages

2. REQUEST FOR INFORMATION

BID RFI No.	QUESTIONS / ANSWERS
1-1	**Question:** Can you please provide pictures of the existing roofing assembly and what it consists of with thickness of existing light weight concrete and foam insulation? **Answer:** Please see Information Available to Bidders released with this Addendum.
1-2	**Question:** Will contractor be responsible for any water damage incurred on the lower levels once construction has begun? **Answer:** Yes, any water damage to ceiling, walls, furniture, equipment etc. will be the contractor's responsibility to replace or repair.
1-3	**Question:** Is it contractors' responsibility to provide weather protection once construction has started? **Answer:** Yes.

END OF ADDENDUM

INFORMATION AVAILABLE TO BIDDERS

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

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

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

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

2. Reports:

   Terracon Field Report, December 4, 2022, 8 pages
   Terracon Roof Core Information Attachment C, 3 pages

3. Record Documents and As-Builts:

   None

END OF INFORMATION AVAILABLE TO BIDDERS

FIELD REPORT

Project №: FT206065
Field Report: 20201113-001
Service Date: November 12 & 13, 2020
Report Date: December 4, 2020

Terracon

Client:	University of California Office of the President 1111 Franklin Street Oakland, California 94607-5200 Attn: Jihee Lee, AIA, Project Manager jihee.lee@ucop.edu	**Project:**	UC – Path Building 14350 Meridian Parkway Riverside, CA 92518

Field Observation Visit

Observation Agency: Terracon Consultants, Inc.
Observation Date(s): November 12 & 13, 2020
Time on Site: 0830-1700 (11/12/2020) & 0830-1230 (11/13/2020)

Scope of Services:
The Scope of Services included two (2) site visits in which Terracon performed 12 core cuts of the existing roof system to document the profile(s) of the existing roof system. The approximate locations of the roof cores are shown on the aerial overview of the roof provided in Attachment A. Terracon's site visit was documented with photographs of the cores and are included with this report in Attachment B. The component information for each of the roof core locations is provided in Attachment C.

System Information:

Manufacturer:	Carlisle
System:	60 mil reinforced thermoplastic membrane with a fleece backing.
Description:	See attachments for the core descriptions.
Total Roof Area:	Approximately 53,000 SF.
Specimen Age:	Existing system. The roof is original to construction in 2008. The system appears to be in poor condition with multiple holes in the membrane observed.

Field Activities:
Terracon performed coring at 12 locations of the existing roof system on the office building. The coring was performed during daytime site visits on November 12, 2020 and November 13, 2020. These cores were used to determine the current make-up of the roof system.

Field Observations:
During the site visit, the following items were observed:

November 12, 2020:

- 0830: Terracon arrived on site to gain access to the roof and pass through building security and perform internal safety protocols.
- 0900: Terracon walked the roof with the client to determine the location of cores.
- 0930: Terracon started the process of coring at core location 'A'.
- 0945: Site weather conditions. 58.3 °F, 41.5 % rh, and 28.42 in. Hg, and 2.5 mph wind out of the SW.
- 1200: Terracon left the site for lunch.
- 1230: Terracon returned to the site from lunch.
- 1318: Site weather conditions. 70.1 °F, 23.3 % rh, 28.36 in. Hg, 3.2 mph wind out of the NNW
- 1700: Terracon stopped coring for the day and left the site. Nine (9) cores were performed during the first day on site.

November 13, 2020:

- 0830: Terracon arrived on site to gain access to the roof and pass through building security and perform internal safety protocols.
- 0900: Terracon resumed coring for the day on the roof areas at the site.
- 1109: Site weather conditions. 74.5 °F, 29.0 % rh, 28.46 in. Hg, 3.7 mph wind out of the NNW.
- 1454: Site weather conditions. 85.0 °F, 43.9 % rh, 29.48 in. Hg, and winds from the West at 4.5 mph.
- 1630: Terracon completed coring activities for the project and left the job site. Three (3) cores were completed on the second day at the site.

Conclusions and Recommendation
Our findings indicated that the roof is in fair to localized poor condition. Based on the provided IR Scanning Report by others, the information obtained from our coring activity generally confirms the findings of the IR scan. Several cores were found to be saturated, with moisture was found in muliple other core locations. Deterioration associated with the presence of moisture was also found.

Our recommendation is that the roof system be replaced.

Roof Cores Performed by: Andrew C. Dimond, RRO

Reported By:

Andrew C. Dimond, RRO
Project Manager
Facilities Engineering Division

Reviewed By:

Andrew S. Weber, AIA NCARB
Senior Consultant / Principal
Facilities Engineering Division

Attachments:
A: Roof Area Overview with approximate core locations (1 Sheet)
B: Coring Photographs (30 Photos)
C: Coring information (3 Sheets)

Google Earth	UC - Path Building
TERRACON PROJECT NO. FT206065	Terracon

Photo #1 Overview of the south section of the building.

Photo #2 Overview of the north section of the building.

Photo #3 Overview of the center section of one of the roof sections inside the equipment screen wall.

Photo #4 Underside of the roof decking.

Photo #5 Typical damage to the roof membrane.

Photo #6 Typical damage to the roof membrane.

Photo #7 General overview of the make-up of core 'A'.

Photo #8 Close-up view of core 'A'.

Photo #9 General overview of the make-up of core 'B'.

Photo #10 Close-up view of core 'B'.

Photo #11 General overview of the make-up of core 'C'.

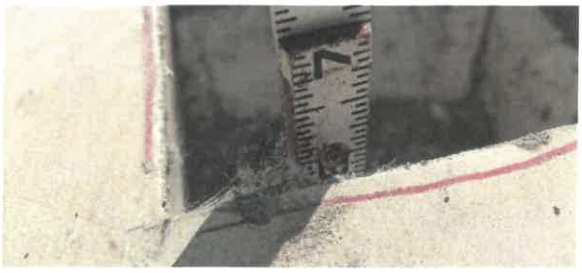

Photo #12 Close-up view of core 'C'.

Photo #13 General overview of the make-up of core 'D'.

Photo #14 Close-up view of core 'D'.

Photo #15 General overview of the make-up of core 'E'.

Photo #16 Close-up view of core 'E'.

Photo #17 General overview of the make-up of core 'F'.

Photo #18 Close-up view of core 'F'.

Photo #19 General overview of the make-up of core 'G'.

Photo #20 Close-up view of core 'G'.

Photo #21 General overview of the make-up of core 'H'.

Photo #22 Close-up view of core 'H'.

Photo #23 General overview of the make-up of core 'I'.

Photo #24 Close-up view of core 'I'.

Photo #25 General overview of the make-up of core 'J'.

Photo #26 Close-up view of core 'J.

Photo #27 General overview of the make-up of core 'K'.

Photo #28 Close-up view of core 'K'.

Photo #29 General overview of the make-up of core 'L'.

Photo #30 Close-up view of core 'L'.

Roof Core Information		ASSESSMENT COMPANY:	Terracon Consultants, Inc.
		FIELD ASSESSOR:	Andrew C. Dimond, RRO
		PROJECT LOCATION:	Riverside, CA

CORE (A)		CORE WT.	3.88	LB	COMMENTS
		CORE SIZE	0.28	SF	Core taken at a wet location from the
		CORE UNIT WT.	13.86	PSF	provided IR scan.
6.5"x6.25" Core Profile:		CORE THICKNESS	6 1/2	IN	Membrane not adhered.
	Layer	**Type**	**Thickness**		Core wet to the touch.
Roof Membrane		Thermoplastic	- - -		1/4-inch slope to the drain.
Insulation - Layer 1		Lightweight Concrete	2 1/2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (B)		CORE WT.	2.01	LB	COMMENTS
		CORE SIZE	0.27	SF	Core was dry to the touch.
		CORE UNIT WT.	7.44	PSF	1/4-inch slope to the drain.
6.25"x6.25" Core Profile:		CORE THICKNESS	6 1/2	IN	
	Layer	**Type**	**Thickness**		
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2 1/2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (C)		CORE WT.	3.57	LB	COMMENTS
		CORE SIZE	0.26	SF	Core taken at a wet location from the
		CORE UNIT WT.	13.73	PSF	provided IR scan.
6.25"x6" Core Profile:		CORE THICKNESS	6 1/2	IN	Membrane not adhered.
	Layer	**Type**	**Thickness**		Core wet to the touch.
Roof Membrane		Thermoplastic	- - -		1/4-inch slope to the drain.
Insulation - Layer 1		Lightweight Concrete	2 1/2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (D)		CORE WT.	3.36	LB	COMMENTS
		CORE SIZE	0.29	SF	Core taken at a location of a seam
		CORE UNIT WT.	11.59	PSF	were the water was coming out of
6.25"x6.5" Core Profile:		CORE THICKNESS	6 1/2	IN	roof.
	Layer	**Type**	**Thickness**		Membrane not adhered.
Roof Membrane		Thermoplastic	- - -		Core wet to the touch.
Insulation - Layer 1		Lightweight Concrete	2 1/2	in	1/4-inch slope to the drain.
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

Roof Core Information		ASSESSMENT COMPANY:	Terracon Consultants, Inc.
		FIELD ASSESSOR:	Andrew C. Dimond, RRO
		PROJECT LOCATION:	Riverside, CA

CORE (E)		CORE WT.	2.02	LB	COMMENTS
		CORE SIZE	0.27	SF	Core taken at the parapet wall
		CORE UNIT WT.	7.48	PSF	condition.
6.5"x6" Core Profile:		CORE THICKNESS	6 1/2	IN	All layers dry to the touch.
	Layer	**Type**	**Thickness**		1/2-inch slope to the drain.
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2 1/2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (F)		CORE WT.	2.99	LB	COMMENTS
		CORE SIZE	0.28	SF	Core taken at the roof expansion
		CORE UNIT WT.	10.68	PSF	joint.
6.5"x6.25" Core Profile:		CORE THICKNESS	7	IN	All layers of the core were dry to
	Layer	**Type**	**Thickness**		the touch.
Roof Membrane		Thermoplastic	- - -		1/2-inch slope perpendicular to the
Insulation - Layer 1		Lightweight Concrete	3	in	expansion joint.
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (G)		CORE WT.	1.99	LB	COMMENTS
		CORE SIZE	0.27	SF	All layers dry to the touch.
		CORE UNIT WT.	7.37	PSF	1/4-inch slope to the drain.
6.5"x6" Core Profile:		CORE THICKNESS	6	IN	
	Layer	**Type**	**Thickness**		
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (H)		CORE WT.	3.63	LB	COMMENTS
		CORE SIZE	0.27	SF	All layers dry to the touch.
		CORE UNIT WT.	13.44	PSF	1/4-inch slope to the drain.
6.25"x6.25" Core Profile:		CORE THICKNESS	6	IN	
	Layer	**Type**	**Thickness**		
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

Roof Core Information		ASSESSMENT COMPANY:	Terracon Consultants, Inc.
		FIELD ASSESSOR:	Andrew C. Dimond, RRO
		PROJECT LOCATION:	Riverside, CA

CORE (I)		CORE WT.	2.08	LB	COMMENTS
		CORE SIZE	0.26	SF	All layers dry to the touch.
		CORE UNIT WT.	8.00	PSF	1/4-inch slope to the drain.
6"x6.25" Core Profile:		CORE THICKNESS	6	IN	
	Layer	**Type**	**Thickness**		
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (J)		CORE WT.	2.48	LB	COMMENTS
		CORE SIZE	0.27	SF	Membrane not adhered.
		CORE UNIT WT.	9.19	PSF	Core wet to the touch.
6"x6.5" Core Profile:		CORE THICKNESS	6	IN	1/4-inch slope to the drain.
	Layer	**Type**	**Thickness**		
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			

CORE (K)		CORE WT.	2.54	LB	COMMENTS
		CORE SIZE	0.27	SF	Core taken inside the equipment
		CORE UNIT WT.	9.41	PSF	screen wall area.
6"x6.5" Core Profile:		CORE THICKNESS	4 1/2	IN	Decking is concrete not metal at this
	Layer	**Type**	**Thickness**		location.
Roof Membrane		Thermoplastic	- - -		All layers dry to the touch.
Insulation - Layer 1		Lightweight Concrete	2 1/2	in	1/4-inch slope to the drain.
Insulation - Layer 2		EPS	2	in	
Decking		Structural Concrete			

CORE (L)		CORE WT.	2.64	LB	COMMENTS
		CORE SIZE	0.28	SF	Core taken at location of a bad
		CORE UNIT WT.	9.43	PSF	patch.
6.25"x6.5" Core Profile:		CORE THICKNESS	6	IN	All layers dry to the touch.
	Layer	**Type**	**Thickness**		1/4-inch slope to the drain.
Roof Membrane		Thermoplastic	- - -		
Insulation - Layer 1		Lightweight Concrete	2	in	
Insulation - Layer 2		EPS	4	in	
Decking		Metal			