

PROJECT: Webster University - ISB
PROJECT NO: WU: , R&B: 1136-16
MEETING DATE: 07/12/2016, 3:30-4:30pm
LOCATION: #358, East Academic Building
BY: MJB, RPW, KJM
DISTRIBUTED TO: Owner (D&C): P-Craig M. S- .
Owner (Facil): P-, S- .
Contr: P-, S- .
Design: P-, S- .

(P-: Primary contact. S-: Secondary contact.)

Item #	Topic	Description	Action Item for:	Status
	Attendance	Sign-in sheet attached		Open
01-001	Meeting Objectives	- Introduction of CxA - Mobilize Cx effort		Closed

Process

01-002	Team Communication	Advise who should be included on Cx correspondence: - Owner reps (WU): Craig Miller. CC: Jim Ward - Owner reps (WU Facil): Gil Morales. - Design Team reps: Mark Schaefer. CC: Kelvin Patel, Patrick Garner - GC reps: Jason Szachnieski. CC: Stephen Ray, Devin Gates - Other: Alex Chambers (Icon)		Closed
01-003	Electronic Doc Mgmt	- Design docs: datastart? - Construction docs: datastart?		Closed
		160712: - All construction documents will live on datastart, including a Cx folder. - Craig M. to provide access to datastart for Facilities and ACES.	WU-CAM	
01-004	Meetings	- OAC, LEED, BIM Coordination, other? - Minutes: datastart?		Closed
		160712: - OAC: Tue, 130-330pm. Minutes available on datastart. - LEED: project access to be granted by Kelvin P. - BIM coordination: Wed, 1pm, Paric office. Devin G to send invite to R&B. - Sub meetings (future): Mon, 9-10am, job site.	Cannon-KP Paric-DG	
01-004	Cx meetings	- KOM - Regular Cx meetings to be scheduled		Closed
01-005	Project Schedule	- Design: planned updates? - Construction: under review. - Startup schedule to be developed: * Infra-Structure (press.tests, flush & clean) / Power / Startups / Controls / TAB / Cx / ASHRAE 110 tests / Move-in. * Building dried in, temporary heating/cooling?		Closed
		160712: - Conformed drawing set on datastart. - Conformed specifications (which includes control sequences) forthcoming. - Move-in scheduling is to begin in August/September.	Design Team WU-CAM	
01-006	Cx Plan	- Preliminary Cx Plan issued with specifications. - Final Cx plan to be developed alongside project schedule (previous item).		Closed
01-007	Cx Tasks Status	- See attachment 1: Cx Tasks Status Report.		Closed
01-008	Cx Issues Log	- See attachment 2: Cx Issues Log.		Open

Item #	Topic	Description	Action Item for:	Status
		160712: - BIM360 to be used to track all issues, punchlist items, warranty items, etc. Exact protocol for a single "issues list" still to be developed.	Project team	

Design

01-008	OPR/BoD	- Developed 2015. - Space requirements matrix (temps, set-points, %RH, vent, FC, standby power, etc) still needed.		Open
		160712: R&B to check sequence of operation and drawings for project performance measures.	R&B	
01-009	Design review	- Five sets of review comments issued.		Closed
01-010	Cx Specs	- Issued in specifications.		Closed
01-011	Cx Plan - Summary	- Issued in specifications.		Closed

Construction

01-012	Coordinated Drawings	- Request copy of signed-off drawings. - Review signed-off drawings for O&M accessibility.		Closed
		160712: - Coordination to be complete by August. R&B to attend one of the coordination meetings at Paric's office and review process for securing access to equipment for O&M purposes.	R&B	
01-013	Submittals	- Request copy of submittal log - Identify equipment to be reviewed by CxA - Controls (installation, control sequences, graphics)		Closed
01-014	Training Requirements	- CxA to interview O&M staff. - Share training needs with Paric.		Closed
		160712: - To be scheduled once submittals are approved.	R&B	
01-015	Control Sequence Review meeting	- HVAC equipment - Lighting controls		Closed
		160712: - To be scheduled in November 2016.	Project Team	
01-016	Field Observations	- Coordination between Cx, EoR, GC, Owner - Participation of Operator?		Closed
		160712: - Paric to schedule walk-throughs at project milestones. - R&B to conduct walk-throughs with facilities.	Paric R&B	
01-017	Mockups	- HVAC terminal equipment & controls - Lighting controls		Open
		160712: - Exact scope of mockups to be reviewed with Paric. No accelerated procurement of equipment will be required.		
01-018	Installation & startups	- Document QA process of contractor - Verify installation - Witness select startups		Closed
01-019	C-PFCs	- Confirmation equipment ready for Cx inspection and Cx testing. - See attachment 3: C-PFC form.		Closed

Testing

01-019	PFC	- Verification of installation		Closed
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Item #	Topic	Description	Action Item for:	Status
01-020	IO checks.	- For primary and mission-critical equipment - Sampling of other equipment		Closed
01-021	FPTs	- For primary and mission-critical equipment - Sampling of other equipment		Closed
01-022	System Tests	- System and building performance; seasonal testing		Closed

Operation & Occupancy

01-023	Close-out Docs	- As-builts - Record drawings - O&Ms - Warranty plan		Closed
		160712: Datasphere to be used to develop a full building model for facility engineers that resides in electronic file formats accessible through a browser interface.		
01-024	Training	- Equipment - Integrated systems/BAS		Closed
01-025	LEED Submittals	- Final Cx Report - System Manual		Closed
01-026	Quarterly reviews	- Seasonal performance - Warranty review - Close-out meeting		Closed
				Open

New Business

01-028		- Open discussion		Open
		160712: - Alex C: Emphasized the need to develop a basic protocol for the use of BIM360 to track field issues. - Lisa S: Requested the design team be kept in the loop on Cx activities.		Closed

Other

	Attachments	1 - Tasks Status Report 2 - Cx Issues Log 3 - Sample C-PFC		Closed
	Next Meeting	- To be scheduled once project activity schedule is refined.		Closed

End of meeting notes



Ross & Baruzzini

6 South Old Orchard I St. Louis, MO 63119
P: 314.918.8383

Date: July 12, 2016
Location: Webster University EAB, room 358, 3:30pm-4:30pm
Project: Webster University ISB
R&B Project No.: 1136-16

ATTENDEES

Name	Organization & Address	Phone Number	Email Address
Marijn Braadbaart	R&B - Cx	(314) 918-8383	mbraadbaart@rossbar.com
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Lisa Sombart	William Tao & Associates	314-884-7600	lsombart@wmtao.com
Peter Deluca	Deluca Plumbing	314 497 1924	peterd@delucaplbg.com

Cx Project Tasks Status										
Equipment	Installation & Startup (by Contr)					Functional Checks (by CxA)				
Equipment Type & ID (Plan Mark)	Submittal	Install / Start-up	IO Checkout	TAB / 3rd Party Verif.	Pre-Funct. Check (C-PFC)	IO Verif.	Pre-Funct. Check (PFC)	Functional Perf. Test (FPT)	GUI Tests	System Tests
Chilled Water Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Boiler	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Heating Water Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Expansion Tank (Hot Water)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Heat Recovery Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Heat Recovery Coil	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Expansion Tank (Heat Recovery)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Heat Exchanger (W to W)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Process ChW Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Expansion Tank (Process ChW)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Air Handling Unit	80%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Split System Fan Coil	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Air-Cooled Condensing Unit	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Condensing Unit	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lab Exhaust Fans	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Toilet Exhaust Fan	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Building Exhaust Fan	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Kitchen Exhaust Fan	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Ventilation Fans	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Variable Air Volume Reheat Box	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Supply Air Valve	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
General Exhaust Valve	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Hood Exhaust Valve	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fin Tube Radiators	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Unit Heaters	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Cabinet Unit Heater	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Mechanical Infrastructure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Building Automation System	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Generator	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer Switch	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lighting Controls	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Domestic Water Heater	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Circulating Pump	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lab Air Compressor	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lab Central Vacuum	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Ross & Baruzzini
Cx Issues Log: Update

7/12/2016
Page 1 of 1

Project:	Webster Univ: ISB
Job #:	1136-16
Scope:	Cx, Fund & Enh

Issue ID:	Phase:	Current Owner	Status:	Obs. Date:	System1: General	System2: Detail	Description:	Suggested Response:	Reply/Follow-Up:	Reply/ Follow-up by:
1-1	Constr	Paric, WTA	Open	8-Jun-16	CxSRC-001	Domestic Water Piping Specialties	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA
2-1	Constr	Paric	Open	8-Jun-16	CxSRC-002	Lighting Fixtures	Refer to CxSRC for details	Refer to CxSRC for details		Paric
3-1	Constr	Paric, WTA, WU	Open	8-Jun-16	CxSRC-003	Domestic Water Heaters	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA, WU
4-1	Constr	Paric, WU	Open	8-Jun-16	CxSRC-004	Sump Pumps	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WU
5-1	Constr	Paric, WTA	Open	8-Jun-16	CxSRC-005	Emergency Plumbing Fixtures	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA
6-1	Constr	Paric, WTA	Open	12-Jul-16	CxSRC-006	AHUs	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA
7-1	Constr	Paric	Open	12-Jul-16	CxSRC-007	Lighting	Refer to CxSRC for details	Refer to CxSRC for details		Paric
8-1	Constr	Paric, WTA	Open	12-Jul-16	CxSRC-008	Htg Boilers	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA
9-1	Constr	Paric	Open	12-Jul-16	CxSRC-009	HVAC Pumps	Refer to CxSRC for details	Refer to CxSRC for details		Paric
10-1	Constr	Paric, WTA	Open	12-Jul-16	CxSRC-010	DX, CU	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA
11-1	Constr	Paric	Open	12-Jul-16	CxSRC-011	Emergency Plumbing Fixtures	Refer to CxSRC for details	Refer to CxSRC for details		Paric
12-1	Constr	Paric, WTA, WU	Open	12-Jul-16	CxSRC-012	Genset	Refer to CxSRC for details	Refer to CxSRC for details		Paric, WTA, WU
21-1	Design	WTA	Open	12-Jul-16	Design Review	SD documents	Issued 8/13/2015	Refer to review comments for details.		WTA
22-1	Design	WTA	Open	12-Jul-16	Design Review	DD documents	Issued 10/12/2015	Refer to review comments for details.		WTA
23-1	Design	WTA	Open	12-Jul-16	Design Review	BP1 documents	Issued 12/18/2015	Refer to review comments for details.		WTA
24-1	Design	WTA	Open	12-Jul-16	Design Review	BP2 documents	Issued 2/18/2016	Refer to review comments for details.		WTA

Job:	WU-ISB
Proj. #:	1136-16

Contractor Pre-Functional Checks (PFC)			Results (na, Y, N, #)					
Equipment Plan ID:			FCU-	FCU-	FCU-	FCU-	FCU-	FCU-
Item-1	Item-2	Item-3						
Installation								
1	Equipment	Complete?						
2		Vendor?	NA	NA	NA	NA	NA	NA
3		Installation Checklists	NA	NA	NA	NA	NA	NA
4	Infra-Structure	Piping						
5		Ductwork						
6		Insulation						
7		Electrical						
8		Safeties						
9		Controls						
10		Labeling						
Startup								
11	Equipment	Installing Contractor						
12	Equipment	Vendor	NA	NA	NA	NA	NA	NA
13		Installing Contractor						
14	BAS Controls	IO						
15		Control Sequences						
16		Communication						
17		User Interface						
18	TAB	Hydronic	Prelim					
19			Final					
20		Air	Prelim					
21			Final					
22	Access	Routine O&M						
23		Repairs & Replacement						
SCF and FPT								
24	Pre-Cx	PFC	Completed by:					

Job:	WU-ISB
Proj.#:	1136-16

Contractor Pre-Functional Checks (PFC)			Details and instructions
Equipment Plan ID:			Provide a Y or N (Yes or No) in the accompanying equipment listing. Provide keyed note #s where necessary.
Item-1	Item-2	Item-3	
Installation			
1	Equipment	Complete?	Installation completed by installing contractor (MC, PC, EC)?
2		Vendor?	Installation approved by vendor?
3		Installation Checklists	Installation verified against the approved Startup Checklists that were developed?
4	Infra-Structure	Piping	Piping connections and details complete?
5		Ductwork	Ductwork connections and details complete?
6		Insulation	Installation complete?
7		Electrical	Installation complete?
8		Safeties	Hardware safeties (pressure, temperature, air, current, voltage) installation complete?
9		Controls	Stand-alone controls (not BAS) installation complete?
10		Labeling	Labeling completed on equipment and connected infra-structure (duct, pipe)?
Startup			
11	Equipment	Installing Contractor	Installing contractor startup report received?
12	Equipment	Vendor	Vendor startup report received?
13		Installing Contractor	Installing contractor startup report received?
14	BAS Controls	IO	IO checklist and startup report received?
15		Control Sequences	Control sequences programmed?
16		Communication	Communication bus operational and functional for controller serving equipment?
17		User Interface	User interface complete? IO devices and related software points included on interface?
18	TAB	Hydronic	Prelim
19			Final
20		Air	Prelim
21			Final
22	Access	Routine O&M	Components and controls are accessible for routine maintenance operations.
23		Repairs & Replacement	Equipment and components can be readily removed and replaced, or with moderate effort.
SCF and FPT			
24	Pre-Cx	PFC	Completed by: PFC completed by GC? (Print name, company and date.)

PROJECT: Webster University - ISB
PROJECT NO: WU: , R&B: 1136-16
MEETING DATE: 01/31/2017, 3:00 - 4:00 pm
LOCATION: #358, East Academic Building
BY: MJB, RPW, KJM
DISTRIBUTED TO: Owner (D&C): P-Craig Miller, S-Jim Ward
Owner (Facil): P-Gil Morales, S- Mark Paule, S- Randy Doty, S- Matt Scrogam
Contr: P-Jason Szachnieski, S-Devin Gates, S-Steve Ray .
Mech: P-Alex Chambers
Design: P-Kelvin Patel

(P-: Primary contact. S-: Secondary contact.)

Item #	Topic	Description	Action Item for:	Status
	Attendance	Sign-in sheet attached		Open
01-001	Meeting Objectives	- Review Cx Process - Upcoming Cx Activities		Open

Process

01-002	Team Communication	Advise who should be included on Cx correspondence: Owner (D&C): P-Craig Miller, S- Jim Ward Owner (Facil): P-Gil Morales, S- Mark Paule, S- Randy Doty, S- Matt Scrogam Contr: P-Jason Szachnieski, S-Devin Gates, S-Steve Ray . Mech: P-Alex Chambers Design: P-Kelvin Patel		Closed
01-003	Project Schedule	- Schedule we are using is dated 1/9/2017, are any major revisions upcoming? - Does owner have a move in schedule?		Open
		1/31/2017: - Construction master schedule is updated weekly, no major revisions upcoming. - Craig to issue the tentative move in dates.	WU - CAM	
01-004	Cx Plan	Final Cx Plan to be issued by R&B pending schedule confirmation	R&B - KJM	Open
01-005	Cx Tasks Status	- See attachment 1: Cx Tasks Status Report. - Contractor to provide the following items: - Templates for installation/startup forms - Template for input/output checkout - Preliminary TAB reports - Completed installation/startup reports and checkout forms - Is there a TAB contractor under contract yet? - What is the process that we will receive all of this documentation? (datastart)		Open
		1/31/2017: - Alex C. has all of the installation and start up forms and should be able to get the last I/O checkout form from ACES. Will send forms to Devin G. to be uploaded to Datastart - TAB contractor is not under contract yet but will be done by Senco. - R&B and Paric to have a separate meeting to discuss the Cx documentation logistics and folder layouts. - R&B to send checklists and test forms to Alex C.	Icon & Paric AC & DG R&B & Paric R&B	
01-006	Cx Issues Log	- BIM360 to be used to track all issues: - Can R&B create issues? - We will review the issues log at the end of the meeting agenda.		Open
		1/31/2017: - Contact Devin G. for assistance with access to BIM360 - R&B to use BIM360 for punchlist items, field observations, and Cx issues - Need coordination between Cannon, WTA, and R&B for field observations to avoid duplicate issues. - Gil M. (Webster) to get access to BIM360	Paric - DG	
01-007	LEED Meetings	- Are there any LEED Meetings and associated Meeting Minutes? - R&B requests an invitation to the LEED project website		Closed
		1/31/2017: - No LEED meetings have been held yet. - Kelvin P. has added Ryan W. to the LEED project website	Cannon - KP	

Item #	Topic	Description	Action Item for:	Status
Construction				
01-008	Campus Loop Tie Ins	- What are operator's requirements before Webster allows new systems to be tied into existing systems? Pressure tests, flushing, cleaning, witnessing, etc.?		Closed
		1/31/2017: - Webster to be included on witnessing and reporting for building tie-ins (chilled water, hot water, electrical) - Owner did not have any additional requirements for campus tie-ins outside of specifications. - Webster needs 2 weeks notice prior to any tie-ins. - Looking for tie-in in April, not June		
01-009	Building Power	- When will the building be on permanent power? - Can this be added to the construction schedule?		Closed
		1/31/2017: - Tentative goal for permanent power is mid-march to early april. - Paric to add to schedule	Paric - SR	
01-010	Generator Startup	- What is the planned date for generator start-up? - Owner to indicate who should witness the generator startup - Will there be a blacksites test? Before or after substantial completion?		Closed
		1/31/2017: - Not a published date yet for generator start-up, dates to be added to the schedule - Black sites test will be before substantial completion	Paric	
01-011	ASHRAE 110	- Add ASHRAE 110 testing to schedule. - Is the vendor for the 110 test under contract?		Closed
		1/31/2017: - Paric to go through ACE, will provide contact information - Paric to add to the schedule	Paric	
01-012	Coordinated Drawings	- Coordination Review Meeting Process: - Were any updates made to the drawings following the review meeting? - Above ceiling punch schedule? - Will operator participate in the above ceiling punches?		Closed
		1/31/2017: - Only minor changes were made to the coordination model following the review meeting - Paric to add above ceiling punches to the schedule - ASI-34 for the fan in the mechanical room is the biggest update for the drawings	Paric - SR	
01-013	Training Requirements	- CxA to interview O&M staff - Set up a meeting time? - Which operators do we need to meet with to determine what equipment and to what extent they would like to have training on? - All information will be captured in a spreadsheet and shared with Paric. - Video Recording requirements - Spec 017900 - 3.3		Open
		1/31/2017: - R&B to contact Gil M. to schedule a meeting with the operators to go through the equipment in the project to determine what training is desired. - R&B to submit training requirements to Paric	R&B & WU R&B & Paric	
01-014	Field Observations	- Participation of Operator? - Does the owner/operator want to participate in scheduled walk-throughs at project milestones?		Closed
		1/31/2017: - R&B Cx field observation issues to be added to BIM360 - Owner/operator to participate in walk-throughs at project milestones	R&B	
01-015	Mechanical Mockups	- HVAC terminal equipment & controls - We would like to see a mockup of a typical unit (program in a controller, devices functional IO checkout) - Exact scope of the mockups to be reviewed with Paric		Open
		1/31/2017: - Need to schedule mockup quickly, will need the controller to be installed and programmed in the field and coordination with ACES and temporary power to the unit. - Controls representative present from Webster at mockups - R&B to meet with Icon / ACES / Phoenix to review mockup approach	Paric, ICON, R&B, ACES	

Item #	Topic	Description	Action Item for:	Status
01-016	Lighting Control Mockups	- We would like to see a Lighting mockup for a Classroom/Lab		Open
		1/31/2017: - Will need to coordinate with ACES - ACES to be included in future Cx meetings	R&B & ACES	
01-017	Installation & startups	- Paric to notify R&B of startups for primary equipment (Chilled Water, Hot Water, Air Handler) - Does owner/operator want to participate in witnessing startups?		Open
		1/31/2017: - Paric to notify R&B and Webster in advance of equipment startups	Paric	

Operation & Occupancy

01-018	Close-out Docs	- Are as-builts in the process of being made? - What is the plan for creating record drawings? - When will draft O&Ms be available for review?		Closed
		1/31/2017: - Kelvin is keeping all documents up to date - ICON and Paric are keeping the model up to date. - Model will be submitted as an as-built - ICON/Paric to distribute O&Ms for review this week		
01-019	BIM360	- Is BIM360 going to be active throughout the warranty phase or how will issues be tracked during the warranty phase?		Open
		1/31/2017: - Devin G. to confirm that BIM360 can be used to keep any active issues open during the warranty phase - Datasphere will be used for uploading all project information and site utilities (BIM for building)	Paric - DG	

New Business

01-020		- Open discussion		Closed
		1/31/2017: - CAM: will distribute tentative owner move-in schedule		

Other

	Attachments	1 - Tasks Status Report 2 - Cx Issues Log		Open
	Next Meeting	- To be scheduled.		Open
		1/31/2017: - Next meeting to be held the first OAC of March		

End of meeting notes

Cx Project Tasks Status									
Equipment	Installation & Startup (by Contr)				Functional Checks (by CxA)				
Equipment Type & ID (Plan Mark)	Submittal	Install / Start-up	IO Checkout	TAB / 3rd Party Verif.	IO Verif.	Pre-Funct. Check (PFC)	Functional Perf. Test (FPT)	GUI Tests	System Tests
Chilled Water Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%
Boiler	100%	0%	0%	0%	0%	0%	0%	0%	0%
Heating Water Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%
Expansion Tank (Hot Water)	100%	0%	0%	0%	0%	0%	0%	0%	0%
Heat Recovery Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%
Heat Recovery Coil	100%	0%	0%	0%	0%	0%	0%	0%	0%
Expansion Tank (Heat Recovery)	100%	0%	0%	0%	0%	0%	0%	0%	0%
Heat Exchanger (W to W)	100%	0%	0%	0%	0%	0%	0%	0%	0%
Process ChW Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%
Expansion Tank (Process ChW)	100%	0%	0%	0%	0%	0%	0%	0%	0%
Air Handling Unit	100%	0%	0%	0%	0%	0%	0%	0%	0%
Split System Fan Coil	100%	0%	0%	0%	0%	0%	0%	0%	0%
Air-Cooled Condensing Unit	100%	0%	0%	0%	0%	0%	0%	0%	0%
Condensing Unit	100%	0%	0%	0%	0%	0%	0%	0%	0%
Lab Exhaust Fans	100%	0%	0%	0%	0%	0%	0%	0%	0%
Toilet Exhaust Fan	100%	0%	0%	0%	0%	0%	0%	0%	0%
Building Exhaust Fan	100%	0%	0%	0%	0%	0%	0%	0%	0%
Kitchen Exhaust Fan	100%	0%	0%	0%	0%	0%	0%	0%	0%
Ventilation Fans	100%	0%	0%	0%	0%	0%	0%	0%	0%
Variable Air Volume Reheat Box	100%	0%	0%	0%	0%	0%	0%	0%	0%
Supply Air Valve	100%	0%	0%	0%	0%	0%	0%	0%	0%
General Exhaust Valve	100%	0%	0%	0%	0%	0%	0%	0%	0%
Hood Exhaust Valve	100%	0%	0%	0%	0%	0%	0%	0%	0%
Fin Tube Radiators	100%	0%	0%	0%	0%	0%	0%	0%	0%
Unit Heaters	100%	0%	0%	0%	0%	0%	0%	0%	0%
Cabinet Unit Heater	100%	0%	0%	0%	0%	0%	0%	0%	0%
Mechanical Infrastructure	100%	0%	0%	0%	0%	0%	0%	0%	0%
Building Automation System	100%	0%	0%	0%	0%	0%	0%	0%	0%
Generator	100%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer Switch	100%	0%	0%	0%	0%	0%	0%	0%	0%
Lighting Controls	100%	0%	0%	0%	0%	0%	0%	0%	0%
Domestic Water Heater	100%	0%	0%	0%	0%	0%	0%	0%	0%
Circulating Pump	100%	0%	0%	0%	0%	0%	0%	0%	0%
Lab Air Compressor	100%	0%	0%	0%	0%	0%	0%	0%	0%
Lab Central Vacuum	100%	0%	0%	0%	0%	0%	0%	0%	0%

Ross & Baruzzini
Cx Issues Log: Update

1/31/2017
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Project:	Webster Univ: ISB
Job #:	1136-16
Scope:	Cx, Fund & Enh

Issue ID:	Phase:	Current Owner	Status:	Obs. Date:	System1: General	System2: Detail	Description:	Suggested Response:	Reply/Follow-Up:
73-1	Constr	Paric	Open	27-Jan-17	CxPR-002	Field Observation - 1st Floor	Multiple fire sprinkler pipes and hot water pipes were not covered in the Main Electrical 192 and the Fire Pump 188 rooms.	Cover all exposed openings on sprinkler pipe, hot water pipe and ductwork.	
74-1	Constr	Paric	Open	27-Jan-17	CxPR-002	Field Observation - 1st Floor	The 18" duct on the north side of the riser by Entry Corridor 183A was not covered.	Cover all exposed openings on sprinkler pipe, hot water pipe and ductwork.	
75-1	Constr	Paric	Open	27-Jan-17	CxPR-002	Field Observation - 1st Floor	The electrical panel and cables in the Bio Vestibule 183C were sprayed with structural insulation.	Clean off any equipment covered by the insulation spray and cover any exposed equipment or material prior to installation of the spray for any future applications.	
76-1	Constr	Paric	Open	27-Jan-17	CxPR-002	Field Observation - 1st Floor	The wall opening for the ductwork coming out of Health Assessment Lab 131 into the corridor does not have clearance for insulation to be installed.	Leave enough space in wall penetrations for ductwork to be insulated.	
77-1	Constr	Paric	Open	27-Jan-17	CxPR-002	Field Observation - 1st Floor	The access panels on the bottom of VAV-123 and VAV-124 appear to be small for the size of the units.	Confirm that the access panels used for 14" VAV units provide ample space to access the heating water coil for service.	
78-1	Constr	Paric	Open	27-Jan-17	CxPR-002	Field Observation - 1st Floor	The access panel on the bottom VAV-120 is damaged.	Fix the access panel on the bottom of VAV-120.	