

BIOLOGY MEETING NOTES

PROJECT: University of Wisconsin – La Crosse
PRAIRIE SPRINGS SCIENCE CENTER – PHASE II
La Crosse, WI

DFD PROJECT NO: 19G1J
RA PROJECT NO: 1290E

MEETING DATE: May 14, 2021

MEETING TIME: 12:30pm-2:00pm

ATTENDANCE:

Scott Schumacher	UW-La Crosse	sschumacher@uwlax.edu
Anton Sanderfoot	UW-La Crosse	asanderfoot@uwlax.edu
Anita Davelos	UW-La Crosse	adavelos@uwlax.edu
Tom Volk	UW-La Crosse	tvolk@uwlax.edu
Beth Paluch	UW-La Crosse	epaluch@uwlax.edu
Mike Abler	UW-La Crosse	mabler@uwlax.edu
Dan Gerber	UW-La Crosse	dgerber@uwlax.edu
Val Schute	River Architects	v.schute@river-architects.com
Mike Adler	River Architects	m.adler@river-architects.com
Jeff Kuhse	River Architects	j.kuhse@river-architects.com
Emma Cuciurean-Zapan	SmithGroup	Emma.Cuciurean-Zapan@smithgroup.com
Nikki Taylor	SmithGroup	Nikki.Taylor@smithgroup.com
Steve Hackman	SmithGroup	Steve.Hackman@smithgroup.com
Chris Endicott	Ring & DuChateau	cendicott@ringdu.com
Jeff Saunders	Ring & DuChateau	jsaunders@ringdu.com
Virginia Depies	Ring & DuChateau	VDepies@ringdu.com

GENERAL DISCUSSION:

1. Space allocation summary was presented for review and comment. Approved as indicated.
2. The Greenhouse was reviewed and discussed. The following items were noted:
 - a. Architectural/Layout
 - Botany Prep, Greenhouse Isolation, and Aquaponics to be 3 equal modules.
 - Isolation Room doesn't have to be tied to the Greenhouse.
 - Clutter and supplies not desired in the Greenhouse. Locate storage items in the Headhouse.

- b. Laboratory Equipment/Casework
 - Growth chamber desired in headhouse area or near elevator. Sized similar to the size of a refrigerator.
 - Retain Aquaponics location as illustrated south of the lab.
 - Single environment desired.
 - Roller benches desired.
 - c. Plumbing & Fire Protection
 - Hose bibs to be used.
 - Sink to be located in Headhouse, remove from Greenhouse. Soil trap required.
 - d. HVAC
 - Negative air pressure required.
 - Building temperature control systems to be utilized in Hydroponics and Isolation.
 - e. Electrical/Telecom
 - Card access required.
 - f. Audio-Visual
 - No specific requirements noted.
3. The Headhouse was reviewed and discussed. The following items were noted:
- a. Architectural/Layout
 - No comments.
 - b. Laboratory Equipment/Casework
 - Storage for potting soil, containers, etc.
 - Non-wood cabinets required. Polypropylene lab casework would be acceptable.
 - c. Plumbing & Fire Protection
 - Sink to be located in Headhouse, remove from Greenhouse. Soil trap required.
 - Floor drains.
 - d. HVAC
 - No specific requirements noted.
 - e. Electrical/Telecom
 - Card access required.
 - f. Audio-Visual
 - No specific requirements noted.

4. The Botany & Mycology Lab was reviewed and discussed. The following items were noted:
 - a. Architectural/Layout
 - 24 students.
 - Display areas needed per Tom.
 - Windows at south wall into Greenhouse Aquaponics space.
 - b. Laboratory Equipment/Casework
 - Single microscope cabinet. Two kinds of microscopes (12 dissecting scopes and 24 compound scopes). See below for additional notes regarding student benches.
 - Standard refrigerator needed.
 - Don't need full-length of upper cabinets at lab benches. Leave open for taller equipment.
 - Growth chambers, pollination, butterflies. Growth chambers are 20"x20"x24"H, (10) currently.
 - Shelving above west wall.
 - Cubby storage inside door.
 - No knee space at back wall cabinetry.
 - Student benches to be fixed. Portability not required.
 - Cabinets below student benches for dissecting microscopes and other things. Could go in tall cabinet.
 - Transparency: Biology open to ideas. Can't interfere with room. Scott noted that they can't be covered all the time.
 - Sitting height student benches.
 - Provide some drawer units under back wall casework.
 - c. Plumbing & Fire Protection
 - RO water required.
 - Large sinks with sediment trap on sink closest to the door (processing bench).
 - Large sinks needed. One needs to accommodate ADA. East wall sink to have sediment trap. Small sink near door.
 - No sinks at island benches.
 - Gas at wall bench area only. 2 desired.
 - d. HVAC
 - No special HVAC to control spores.
 - Negative pressure.
 - e. Electrical/Telecom
 - Island bench utilities: Power only.
 - Card access required.
 - f. Audio-Visual
 - No specific requirements noted.
 - Technology similar to biology labs in Phase 1.

5. The Medical Mycology Lab was reviewed and discussed. The following items were noted:
 - a. Architectural/Layout
 - 16 students.
 - Cell culture.
 - Botany prep space may not be adequate. Not only storage, prep also.
 - Transparency: Biology open to ideas. Can't interfere with room. Scott noted that they can't be covered all the time.
 - Wall/box of wonders at teaching wall to be explored.
 - b. Laboratory Equipment/Casework
 - No locks required on casework.
 - 3 levels of drawers needed.
 - Biosafety cabinets: Only need two incubators. Type II-A2 cabinets needed. BSL2. (2) BSC grouped together is preferred. New.
 - No fume hood required.
 - Standard refrigerator needed.
 - Display area? Side benches? Yes.
 - CO2 and regulators not required.
 - Move refrigerator from BSC room to lab.
 - Move incubators to BSC room.
 - 3-drawer units under student benches.
 - Sit-down height student benches.
 - c. Plumbing & Fire Protection
 - Gas required.
 - Gas at student benches.
 - Eye wash.
 - (1) ADA sink, (1) regular, deep sink.
 - d. HVAC
 - No specific requirements noted.
 - e. Electrical/Telecom
 - Card access required.
 - f. Audio-Visual
 - No specific requirements noted.
 - Technology similar to biology labs in Phase 1.

6. The Biosafety Cabinet Room was reviewed and discussed. The following items were noted:
 - a. Architectural/Layout
 - No specific requirements noted.
 - b. Laboratory Equipment/Casework
 - (4) BSC needed. Existing are 48" wide. New.
 - (2) incubators. Can be stacked. No CO2.
 - Regular refrigerator without glass front.
 - c. Plumbing & Fire Protection
 - No emergency shower.
 - No air or gas.
 - d. HVAC
 - No specific requirements noted.
 - e. Electrical/Telecom
 - Card access required.
 - f. Audio-Visual
 - No specific requirements noted.
7. Refer to attached drawings for additional review comments recorded during the meeting.
8. Equipment anticipated to be provided outside of the construction contract to be itemized using an online database. SmithGroup to provide link and instructions to SharePoint site. UWL to designate key personnel that will populate these lists with the appropriate equipment.

ACTION ITEMS SUMMARY		
-	No action items noted.	-

Note: This constitutes our understanding of the issues presented. Contact River Architects, Inc. via phone at (608) 785-2217, or e-mail m.adler@river-architects.com if there are any discrepancies.