

Meeting Minutes

MIRA COSTA CHEMISTRY & BIOTECH BUILDING

100% Design Development

User Meeting #4 (Zoom)

Lab Equipment, Layouts, and Casework Final Confirmation

Brief Review of Building Exterior, Renderings, and Finishes

February 5, 2021

Biotech & Chemistry

Attendees:

Luke English, Project Architect – HED
Ben Caffey, Architect in charge of Design – HED
Marilee Lloyd, Lab Planner – HED
Jen Green, Lab Support - HED
Matt Christensen, Project Manager – CW Driver
Mike Fino, Dean of Math and Science – MCC
Miguel Renteria, Director, Owner Rep – ECI
Chris Lerma, PE CM – Kitchell
Thong Nguyen, Chemistry – MCC
Larry Hernandez, Chemistry – MCC
Kent McCorkle, Chemistry – MCC
Barbara Juncosa, Biotech – MCC
Daniela Traykova, Biotech – MCC
Dominique Ingato, Biotech – MCC
Wally Perez, Biotech – MCC

***Chris Lerma please update as necessary**

***Refer to separate documents for plan markups**

Biotech

1. Casework. See Plan Markups.
 - a. Size and configuration of cabinets below fume hoods
 - i. Acid cabinet. ADA clearance on one side of one hood in each room.
 - b. Reviewed type, size, and locations of cabinets at Pods and Teaching Stations
 - c. Food/drink shelves along teaching walls for Chemistry. Biotech requested similar shelves/cubbies in labs. Cubbies already located in Hallway. Added cost if required at lab spaces. HED to look at adding low shelving on one side of teaching wall.
 - d. Cubbies and storage in Biotech Hallway. HED to confirm match existing cubby sizes.
 - e. MCC teaching podium in Bioprocessing Lab.

- i. Reviewed location for AV cabinet and confirmed no teaching podium in Tissue Culture Lab. Doc cam to one BSC and one microscope. Inside BSC possible?
- 2. Fume Hoods
 - a. All fume hoods at Biotech are new.
- 3. Lab Equipment
 - a. Reviewed questions and revisions to Equipment Schedule.
 - b. HED shared with MCC 2/8/21.
 - i. Verify all sizes and add any missing information (including service connections)
 - c. Final list of items that need to be connected to emergency power. List below. To review generator size and cost impact.
 - i. Need
 - 1. SSH-002 -80C Freezer
 - 2. BTP-003 Full Size Fridge
 - 3. BTP-004 Full Size Freezer
 - 4. BTP-006 Double stack incubators
 - 5. TCL-006 Double Glass Door Fridge
 - ii. If possible
 - 1. BEB-003 Double Stack Incubators
 - 2. BEB-007 Double Glass Door Fridge
 - 3. TCL-005 Double Stack Incubators
 - d. Bioprocessing Lab Chillers
 - i. Distribution loop too long? HED to look at alternate routing.
 - ii. Clearance needed around chiller?
 - e. Bioreactor/Fermenter.
 - i. Utility connections - drain, power, and water.
 - ii. Install per product data. Pending additional information from MCC.
 - iii. Refrigerant & heater needed?
 - iv. Utilities can be exposed per Miguel Renteria.
 - f. Bioprinter. Confirmed 12 new.
- 4. Other
 - a. Confirm laptop cart locations
 - i. Laptops at Bioprocessing Lab benches. Top drawer - lock. Reconfigure casework per markups.
 - b. Review glassware cart locations and provide sizes of glasswasher racks.
 - i. Biotech confirmed 4 carts as shown.
 - c. Phone is requested in each lab.
 - d. Confirmed towel dispenser and manual soap dispenser to match existing. Auto soap dispenser Sloan ESD-2000 required only at Restrooms per MCC review comment.

5. Locks
 - a. Biotech. See meeting #3 minutes. Plus add at Bioprocessing Lab bench top drawer for laptop.
6. Data outlets. Bioprocessing Lab benches need minimum of 2 each.
7. Roller Shades
 - a. Pending MCC RFI response. Blackout at 2 Equipment & Balance Rooms maybe. But HED advised no exterior glazing and not a lot of daylight.
8. Display Monitors. Reiterated that monitors in each lab. Pending final size and mount from MCC.

Exterior

1. Reviewed exterior renderings. MCC had comments regarding sunscreen color and layout. Overall they like the updates, but had similar comments as MCC EMT.
2. Some discussion about exterior display cases and art integration. Luke advised team HED would like to help collaborate and coordinate any work – including type and location of display cases, backing for any art/banners install by MCC, and signage. MCC procuring signage/art consultant and will follow up. Digital display (FFE) currently planned for reach level adjacent to elevator. MCC and science departments to provide input on what they would like, how to communicate their message, and display case type.
3. Briefly reviewed digital materials boards. MCC advise to use solid color sheet vinyl flooring. They like color palette.

Chemistry

1. Casework. See Plan Markups.
 - a. Size and configuration of cabinets below fume hoods
 - i. Less doors below hoods.
 - ii. No pegboards at all labs. HED to look into providing more window SF.
 - b. Drawer sizes and locations to accommodate glasswasher racks.
 - i. Reviewed notes from 2/4/21 campus visit. HED to revise drawer heights and layout.
 - c. Type, size, and locations of cabinets at Pods and Teaching Stations
 - i. Reviewed plans and elevations. See markups.
 - d. Carts with shelves below counters in Instrument rooms per 2/4/24 campus visit notes.
 - e. Cabinets that require locks.
 - i. Padlocks at all drawers. Key locks at all doors (one key).

- f. Food/drink shelves along teaching walls confirmed.
- 4. Fume Hoods
 - a. Remove fume hood in Chemical Waste Room.
 - b. No other passthrough hood locations.
- 5. Lab Equipment
 - a. Reviewed questions and revisions to Equipment Schedule.
 - b. HED shared with MCC 2/8/21.
 - i. Verify all sizes and add any missing information (including service connections)
 - c. Equipment items to be connected to emergency/standby power:
 - i. ICS-001 Fridge/Freezer
 - ii. OCS-001 Fridge
- 6. Other
 - a. Confirmed laptop cart locations. Remove counter above carts in Inorganic Instrument Room.
 - b. Reviewed glassware cart locations. See markups on current plans.
 - c. Phone is requested in each lab.
 - d. Confirmed paper towel dispenser and manual soap dispenser to match existing at perimeter.
 - e. HED to advise on casework mounted paper towel dispenser and countertop soap dispenser at pods.
 - f. Eyewash at every sink. Every location of lab space needs to be within a 12 second direct route to an eyewash.
 - g. Sinks. If necessary, okay to have DI at perimeter & teaching station sinks only. Definitely okay in Org Chem Lab.
- 7. Chem Waste Room
 - a. Need Flame cabinet for waste storage. MCC Requested 2 flame cabs with hood above. Marilee noted that exhaust hoods are allowed per NFPA.
 - b. Exhaust dedicated for waste & storage? Update: HED confirmed with consultant that exhaust is not dedicated, but all exhaust to be on 24/7/365.
 - c. Store carboys below. Org chem waste secondary containment (built-in to flame cab).
 - d. Should not have a fume hood in waste room at pass-through. Removed.
 - e. Marilee cautioned that MCC should not use pass-through fume hood for chem storage.
- 1. Chem Storage rooms.
 - f. Shelving FFE.
 - g. Metal standards for Epoxy or Trespa Toplab shelves with marine edge. Chem dept prefers sturdy.
 - h. Sliding glass fronts or at least rod at front.

- i. Power to desiccators. Yes.
- j. Need flame cabs. 2 large in org chem storage
- k. See layout on Plan Markups.
- l. 2 carts in organic storage and 2 carts in inorganic. Shorten shelves as needed.

Note: Chemistry provided additional markups via email on 2/8/21.