

ENGINEERS CONNECTED

# 7.13.17 **bold/italic** items are revisions to the previous program notes

# **Future Meetings:**

- Dr. Caldwell
- Students
- Industry Partners (Mike Betts? Sam Geil? Kevin Harmon? TBD by SCCCD)

# A. Specific Room Requirements

- 1. Existing Machine Shop
  - a. Remove existing coiling door (south wall)
    - i. This may become a V.E. item if budget is an issue
  - b. Existing coiling door (east wall) to remain for loading/unloading
  - c. Enclose outdoor area (north) with fencing for shop use
    - i. Modify fence so that existing door to new Computer Lab can be accessed from North.
  - d. Provide shaded area and fencing at east entrance to allow for tractor storage and outdoor work area
- 2. Existing Computer Lab
  - a. The existing classroom was determined by staff to be the best space to convert to a computer lab due to its proximity to the existing CNC machines
    - Plan for 24 desktops with convertible furniture (computer desks that convert to working desks, refer to Sam's photo; match those provided at Reedley College)
      - 1. CPU's will be used, not laptops
    - ii. Remove existing sink/countertop
    - iii. no other enhancements are required for this room to convert to computer lab
    - iv. Refer to FCC T102 or T104
    - v. Transitional computer desks (if space allows, show on plan)
    - vi. OK to bring power/data to desks via power poles
      - 1. Desks aligned against one wall (as shown) allows power to be brought in without poles (preferred)
    - vii. Relocate teaching station to west wall
- 3. Existing Counselor Office
  - a. Convert to 3-D printing room due to proximity to computer lab



ENGINEERS CONNECTED

# Center for Agriculture and Technology Concept Design Meeting 2 7.13.17

- i. Verify location of existing wall separating counseler from computer
   lab
- b. (3) 3-d printers
  - i. Provide power/data at printing room for CNC machines
- 4. Maintenance(previously labeled Welding)
  - a. Create separate area within Maintenance for Welding (locate at south end of Maintenance and Ag Shop)
    - Provide booths along perimeter of room to maximize space and supervision
    - ii. 15 fixed booths, no 480V service required
    - iii. 15 Existing mobile stations will be relocated from existing welding area, provide storage area
    - iv. 4'-0" wide doors
    - v. Designate one area (previously labeled EL/IT) to gas tank storage.

      Provide access from building interior. No exterior
  - b. Provide centralized gas storage with distribution manifold
  - c. Add air compressor (OK to be located at exterior)
  - d. Add hand wash sink, shower, eyewash
  - e. Provide double doors at Storage Room
- 5. Plants and Soils Lab (previously labeled Dry Lab)
  - a. Dry lab with 24 stations
  - b. Lab casework with chem-resistant countertops on two walls with water, gas, vacuum
  - c. Movable tables
  - d. No connectivity to Ag Shop/Ag Welding is required
  - e. Fume hood with chem-resistant bottom (not stainless steel)
  - f. Storage room required
  - g. Hazardous chemical storage cabinet required
    - i. Designated Haz mat room not required
    - ii. Cabinet must be accessible from within classroom
  - h. Closet for vacuum pump required
  - i. I.T. needs to weigh in regarding remote learning capabilities in this room
  - j. Add oven for drying soils
  - k. Provide power at floor
    - i. Lab tables should be able to be 'plugged in' for power/data
  - I. Reduce casework to create teaching wall
    - i. Claudia provide standards for teaching wall (technology, etc.)



ARCHITECTS ENGINEERS CONNECTED

# m. Provide power and utilities at teaching station. Move teaching station to one side of room

- 6. Ag Shop (previously labeled Ag Lab)
  - a. Adjacent to Ag Welding
  - b. Provide tool storage
    - i. Provide double doors at Storage Room
  - c. 14 foot ceilings
  - d. 12-foot (high) coiling doors
  - e. 14-foot (wide) coiling door (1)
  - f. Workstation for Instructional Technician inside shop
  - g. Provide shade awning (attach to building) over North coiling doors.
  - h. Add hand wash sink, shower, eyewash
  - i. Large equipment will be serviced (tractors, trailers)
- 7. New Restrooms
  - a. Multi-accomodation restrooms for Men and Women
    - i. Label restrooms Men/Women rather than Girls/Boys
  - Restrooms accessible from exterior of building so they can be used by all students
  - c. Student Restrooms accessible from interior of building (shops). Okay to reduce fixture count to create hallway access.
  - d. Okay to reduce staff restrooms (1 total)
- 8. Existing Restrooms
  - a. Showers not required
    - i. Consider removing showers (if budget allows) and adding additional toilet fixtures
  - b. Convert both restrooms to single occupancy, gender neutral restrooms
- 9. Lecture Room (2)
  - a. 24 students each
  - b. Movable partition separating rooms
    - Locate partition pocket at north wall so that south wall can be used for teaching
  - c. Consider furniture that can be used to convert computer desks to working desktops in one room, lecture-style setup in second room
  - d. No direct access to labs is required
  - e. No visibility to/from labs is required
  - f. Claudia to provide technology requirements at Classrooms
    - i. Provide power/data for portable monitors at south wall of both classrooms



ARCHITECTS
ENGINEERS
CONNECTED

# Center for Agriculture and Technology Concept Design Meeting 2 7.13.17

g. Provide a revised design for classroom use (teaching walls) for both 24 and 48 students

# 10. Faculty Offices (4)

- a. 90 s.f. each, located in close proximity to each other, and near Lecture
- b. Provide sidelights at doors (match existing campus)
- c. Claudia provide SCCCD standards for staff office (L-shaped desk, file cab, bookshelf, 1-2 guest chairs)
- d. Provide storage/copy room (copier, counter, supply storage)
- e. Incorporate 'breezeway' for better connectivity between various uses in building (admin /shops/restrooms)
- f. Consider locating admin functions at south west end of building, and making restrooms more centralized and accessible by students using either building
- g. Use additional office space for future office (currently labeled 'RESEARCH')

#### 11. Counselor Office

- a. 90 s.f.
- b. Add 'Resource Center" next to Counseler

### 12. Break Room/Conference Room

- a. 8 users
- b. Include sink, space for residential refrigerator, countertop, microwave, coffee maker
- c. More of a break room than a conference room
- d. This room can be reduced in size (8 people)

#### 13. Covered outdoor area

- a. Create a true multi-use space
- b. Consider shade sails (color, softer aesthetic) for cover
- c. Limited built-in furniture (prefer movable)
- d. Provide power for tools/equipment
- e. Provide power for student use (laptop and phone charging)
- f. Reduce nesting areas for birds
- g. Space must accommodate equipment demo
- h. Do not wish to mix student gathering area with educational area
- i. Provide secure fencing layout

#### 14. Student outdoor area

- a. Keep existing elm tree
- b. Consider fountain
- c. Consider concrete stamping or staining to add Mountain Lion

#### 15. Exterior design

a. Materials and overall aesthetic are acceptable



CONNECTED

Center for Agriculture and Technology Concept Design Meeting 2 7.13.17

### 16. Exterior work areas

- a. Add 20'-0" gate at fence east of existing building. Move previously shown gate to the north.
  - i. Maintain 20'-0" clear width at shade canopy

Project construction budget: \$3.75M

# **Next Steps:**

- Brian to contact BCF to provide GPR and topo to TETER
- Next meeting (review floor plan revisions) date TBD
- Following meeting (Industry Partner meeting) date TBD
- TETER to provide:
  - o Revised floor plan
  - o Revised site plan (if TOPO arrives)
  - o Exterior Elevations