Present at 8 March 2021 Program Breakout Mtg. #1:
UC Merced: Allison Costa, Maggie Saunders, Bobbi Henderson, Heather Bortfeld, Elif Isbell, Jeffrey Gilger, Christine Howe
SCB/GLP Team: Matt Pietras, Bryan Irwin, Martin Gicklhorn

Present at 23 April 2021 Program Breakout Mtg. #2:
UC Merced: Allison Costa, Bobbi Henderson, Heather Bortfeld, Elif Isbell
SCB/GLP Team: Matt Pietras, Martin Gicklhorn

1. **Programming Information received from UCM:**

   A. 2 Labs @ 550 SF each ***4/23: This is now 2 Labs @ 602 SF each***

   B. 4/23: The two labs shared one of the six 104 ASF Lab Support Spaces but, at the 4/23 BO Mtg, it was decided to incorporate the share of the Lab Support Spaces (52 ASF) into each of these two labs in order to help solve space deficiency issues.

   C. "One of the Contiguous Damp Labs (550 SF) divided into two main sections:

      1. Data Collection Section will include 1 EEG testing room/booth (10x10); 1 small child and family testing room (8x8); an open area for families, EEG and child monitoring, and EEG prep area (the largest section).

      2. Data Processing Section will be an open space with workstations around the walls, 1 wall for projection & whiteboard and a central conference-style table

   D. Nominal overall space dimensions: see attached drawings (Sketch of Plan + Wiring Diagram for connections between EEG Recording Desk and items inside EEG Test Room).

   E. #63A and #63B are to essentially be the same floor plan but #63B should not have the separate Small Office for Confidential Data (Data Processing Room to be 20'-6" in length) and there should be a door between the Data Processing Room and the Open Area of the Testing Portion of the lab.

   F. It was determined at the 4/23 BO Meeting that, for these two labs, the 104 ASF from the shared Lab Support Space is to be incorporated into the labs so each lab will be approx. 602 ASF in area.

2. **Basic Overall Lab Use and Layout:**

   A. Generally, describe how lab is used and what takes place in the lab.
   Response: Lab is used to test children in Data Collection Section and to house the Lab Grad Students and process data in the Data Collection Section

      1. Describe independence of the Data Collection and Data Processing Sections.
      Response: The two sections should have separate corridor entrances

2. What is the age range of the children?
   Response: Lab works with children 3 and up (no infants)

B. Lab Space Finishes:
   1. Ceiling: Acoustical lay-in type ceiling ***(if a Whisper Room is used for the EEG Testing Room, the ceiling will be as provided with the Whisper Room)***
   2. Walls: Painted Gypsum Board (must have high acoustical isolation properties ***around the two testing rooms and somewhat lower acoustical isolation properties around the Open Area of the Testing Area part of the lab.)***
   3. Floor: ***Carpet other than in front of the Sink Area which should be resilient flooring. Carpet should be durable and easily cleanable.***

3. Lab Requirements:

A. Data Collection/Testing Portion of the Lab:

1. **Open Area:**

a. General:

1. Room Finishes: ***match general lab finishes***

b. Family Seating / Toy Area:

1. Furnishings: ***The portion of the room not occupied by the Sink counter and the Recording Station should be left as "Flex Space" so various furniture setups can be provided by the users and easily rearranged. Uses of the Flex Area could include and family waiting area, a preliminary child evaluation area, some Grad Workstations or possibly a small table and chairs for lab staff training.***

2. How many people might need to be accommodated at a time? ***Response: Only as small group needs to be accommodated at a given time. If lab workstations are located in the room, the grad students would leave when a family was present for testing.***

3. What are the acoustical requirements for this room? How well does this room need to be isolated from other areas such as the Data Processing Section or other adjacent spaces? ***Response: The testing rooms have the greatest need for acoustical isolation and the Open Area has a moderate need for acoustical isolation.***

c. Sink/EEG Prep Area:

1. Is sink counter long enough? Sink should be on the same side of the room as the EEG Test Room Recording Station. Sink countertop should be as long as possible. Should some resilient flooring be provided in front of the sink area? ***Response: Yes.***

2. Wall cabinets above and base cabinets below? ***Response: Yes***

3. Is chair required for electrode fitting? ***Response:*** ***No, electrode fitting takes place in the EEG testing room.***

4. Is tall cabinet required for electrode storage? ***Response:*** ***Additional storage would be part of furnishings to be determined at a later date for the "Flex Space" portion of this room.***

5. Is hair-washing done here? Anything special for this? *Response:* No hair washing is done at the sink

6. Is a diaper change station required? *Response:* No

7. One knee space OK for accessibility? ***Response:*** ***A knee space is to be provided for the Recording Station and the Recording station worksurface would be at 30" above the floor. The Recording station knee space could also be the "accessible knee space".***

8. **Recording Station** (associated with the EEG Booth): ***(to be discussed at next meeting)***
   1. ***Is a 48" x 27" or 48"x24" desk with a knee space and a small mobile base cabinet adequate for the Recording Station? Response: Yes***
   2. Wall cabinets above for storage? ***Response: Yes***
   3. Patch panel through walls for cabling between Recording Station and EEG Room? ***Response: The patch panel for wiring into the EEG Test Room is necessary so there are no acoustical leaks where wiring runs into the EEG Room. If a Whisper Room is used, it is to be specified to have such a patch panel. If the EEG Test Room is built of metal studs and gypsum board, a patch panel for wiring, or the equivalent, to allow cables to pass through the wall without compromising acoustics, would need to be provided.***

2. **EEG Test Room/Booth:**

   a. Are there any specific acoustical rating requirements? ***Response: The STC (Sound Transmission Coefficient requirement of the enclosure is not known but it should be equal to or better than the Enhanced (Double Wall) of a Whisper Room or better. What is your existing EEG Room wall construction and is it adequate? Response: Elif does not yet have a lab with an EEG booth/room so new construction cannot be based on the existing.***

   b. Are there any EMI shielding requirements? *Response:* The lab is sensitive to EMI but locating the lab away from EMI intensive areas is the anticipated solution rather than shielding. ***(The Room wall construction would only need to have EMI shielding capabilities if the room were positioned in close proximity to something that generated a high level of EMI (anything beyond a normal 20A electrical circuit). The***

EEG Test Room should be located away from electrical rooms, electrical panels, electrical feeder conduits (above or below the floor slab), elevators, equipment with electrical motors, etc.

c. Are you open to manufacturers other than Whisper Room? (IAC, etc.) (Whisper Room has ventilation ports on the side of room which is less space efficient). ***Response:*** ***Acoustical Booths/Rooms from other manufacturers would be acceptable but they are generally more expensive than those manufactured by Whisper Room, Inc. Elif would prefer to have the EEG Room be a Whisper Room or the equivalent from another acoustical isolation booth manufacturer rather than having the room be constructed with metal studs and extra layers of gypsum board because the premanufactured booths have door/window acoustics, cable pass-through and ventilation systems which are designed to maintain the acoustical isolation of the booth walls. However, Allison said that the project may not be able to fund a pre-manufactured sound isolation booth (as it may be categorized as user research equipment) so both options must be shown until the issue of how a pre-manufactured booth would be funded is confirmed.***

d. Step up to enter booth OK or must booth floor be level with building floor? ***Response:*** ***Although a flat floor is preferred, depressing the floor slab for a premanufactured booth that comes with a separate floor may not be realistic and this issue should be revisited during the design phase if the EEG Room is located above the ground floor. Because the Dev. Psych, Suite will likely be located near the building entrance, there is good reason to expect that the EEG Room would be on a slab-on-grade.***

e. Is size drawn adequate? ***Response:*** ***There are several scenarios for how Elif will use the room. One scenario would have the researcher in the room with the test subject (and a parent) and, in that scenario the room should be as large as possible. Elif said that if the EEG Test Booth was a premanufactured sound isolation booth such as a Whisper Room and there was a Recording Station outside of the room, then the room could be approx. the size of an 8'-6" x 8'-6" Whisper Room which would be approx. 8'-0" x 8'-0" on the interior (not including the 2" thick acoustical foam panels). If the EEG Room was designed without an acoustical pass-through/patch panel for wiring, and, consequently, the researcher was required to be inside the room instead of working from a Recording Desk outside of the Room, the room should be larger in size (as close to 8'x10' interior dimension as possible. Having a Recording Desk outside of the EEG Room would be best for flexibility as some test subjects, such as autistic test-subjects would not be comfortable with the researcher being in the room.***

f. Is one child size desk + 1 child's chair all the furnishings needed? ***Response:*** ***Setups could vary depending on the test that is being done but one known setup is having the child in a chair test subject facing a table/desk with a laptop computer on it with a researcher or parent to the side and a researcher at another table (behind the child) with recording equipment and laptop computer on it. This is the layout drawn on the Sketch Plan for the lab.***

g. Flat Display mounted to wall? ***Response: Not mounted to the wall***

h. Light switch inside room or outside? ***Response: Inside the room***

i. Is a view window into the room (in door or in wall) wanted or will a camera be used? ***Response: Isolation Room quotes from Elif provided to GLP on 4/23 included a window in the Isolation Room door (Whisper Room Quote) or a standard 24"x36" view window (IAC Quote).***

j. Will child be alone in room during the testing? *Response:* One or two adults will be in the room with the child test subject.

k. Room/*Booth* finishes:
   1. ***EEG Rm Option #1: Premanufactured Test Booth***
      Ceiling: Booth Manufacturer's Standard
      Walls: Booth Manufacturer's Standard
      Floor: Carpet over Booth Manufacturer's Standard

   2. ***EEG Rm Option #2: Metal Stud and Gypsum Board Construction***
      Ceiling: Acoustical Ceiling
      Walls: Painted Gypsum Board
      Floor: Carpet

l.

3. **Small Test Room:**
   a. Are there any specific acoustical rating requirements? Assumption is that this is a conventionally constructed room with acoustical partitions around it and a standard solid core or hollow metal door. (confirm) ***Response: Room must be acoustically isolated. No specific NC level or Wall STC Level was defined. As there is no specific existing test lab on campus to base the STC Rating on, the STC rating will be based on a full-height acoustic wall made with metal studs and 2 layers of 5/8" gypsum board on one side and one layer of 5/8" gypsum board on the other side until better information becomes available.***

   b. Is size drawn adequate? ***Response: Yes (7'-0"x7-6 interior dimension is acceptable).***

   c. Is one child size desk + 1 child's chair all the furnishings needed? (furnishings currently drawn are adult size) ***Response: For the child test subject, the answer is y****es, but the child will likely have at least one adult in the room with the. Setups could vary depending on the type of testing being done in the room.*

d. Flat Display mounted to wall? ***Response: No displays mounted to the walls. Displays will be either part of a laptop computer or freestanding display on table.***

e. Light switch inside room or outside? ***Response: Inside, as an adult would always be in the room with the child test subject.***

f. Is a view window into the room wanted or will a camera be used? ***Response: To be confirmed.***

g. Room/Booth finishes:
Ceiling: Acoustical Ceiling
Walls: Painted Gypsum Board
Floor: Carpet

B. Data Processing Section:

1. Workstation Area:

a. # of workstations required/wanted? ***Response: The number of workstations currently shown on the sketch plan for the lab is acceptable (four workstations + one printer station).***

b. What workstation size should be planned for? ***Response: 48"x27" workstation desks are shown on the sketch plan and that is acceptable to Elif.***

c. Workstation Planning:
1. ***Details of workstations and associated storage will be planned when the furniture is planned during the design phase.***

d Telecom/Elec Services to Workstations:
1. Wired Telecom to each workstation? *Response:* Provide wired telecom to each workstation.

2. Is one duplex electrical receptacle for each workstation adequate? *Response: Provide one fourplex outlet for each workstation*

e. **Meeting Table with whiteboard/display capability:** The table/chairs were intended to primarily be used for data processing training sessions. A table and chairs will not fit in the Data Processing part of the lab (with the workstations). ***At the 4/23 meeting, GLP proposed moving the table/chairs into the Open Area of the Data Collection part of the lab, however, this was not acceptable to Elif. The direction from Elif was to just show the workstations in the Data Processing part of the lab as she was exploring her options for how/where to conduct the date processing training sessions. Two other options were proposed at the 4/23 meeting with the intent of getting some more space into the lab to make way for the table/chairs and possibly also larger testing rooms.***

Option A: ***In this option, approx. 52 ASF of Lab Support space would be added into the 550 ASF of each of the two Damp Labs. This would add approx. 30" to the overall long dimension of the lab. This option was liked, agreed to and will be incorporated into the planning for labs #63A and #63B. These two wet labs will be 600 ASF labs instead of 550 ASF labs. The added space will be used to create more space for larger testing rooms and possibly also a slightly larger Data Processing Area. The added area will not be used to create a space for a table/chairs in these labs.***
Consequently, there will only be five 104 ASF Lab Support Rooms in the Dev Psych. Suite.

Option B: ***In this option, Labs #63A and #63B would share a single Data Collection area but have separate Data Processing Areas. This idea was not liked and was rejected because the nature of the research for the New Hire PI for #63B was not known and there may be incompatibilities with the work of Lab #63A. This idea will not be implemented.***

e. Is interior glazing allowed in this area of the room? OK If frosted/obscured? Response: No direct line of sight into the room which could see computer displays is allowed.

2. **Small Office for Confidential Data** ***(this space would be present in Lab #63A but not in #63B.***

a. Describe room function / use *Response:* A segregated office area with limited access where the most sensitive data could be worked with on computers. ***At the 4/23 Mtg, it was confirmed that two workstations were adequate for this room.***

b. Will there be any servers in this room? *Response:* No.

c. Would this room be necessary if a shared HIPAA Compliant Server Room were provided as part of the project? *Response:* Yes, as this is not just a server room. This is a room in which sensitive data can be worked with.

c. Printer/Copier: Is a Printer/Copier Area/Station Required in the lab? If so, where would it be best located? Size of printer/copier? ***Response:*** ***A printer/copier station is shown on the program sketch plan.***

C. Lab Security:

1. Card Reader at lab door*?* *Response:* CR is wanted at lab corridor doors.
2. Card Reader at secure data room? *Response:* No

D. Adjacencies:

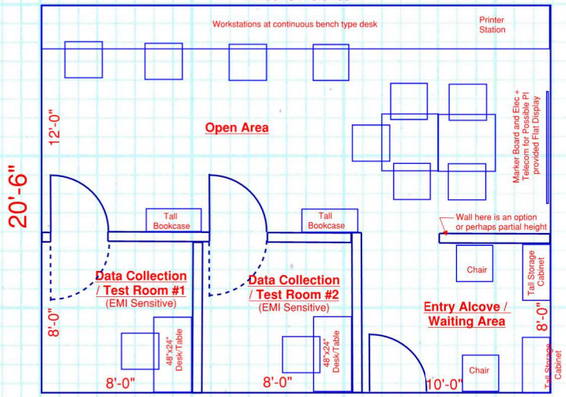
1. To PI Office: The PI Office do not need to be very close to the labs. They could be on another floor.

2. To other Dev Psych Suite Labs: ***These two labs are to be in the Dev. Psych. Suite but do not need to be contiguous with Heather Bortfeld's Lab and/or Rose Scott's Lab.***

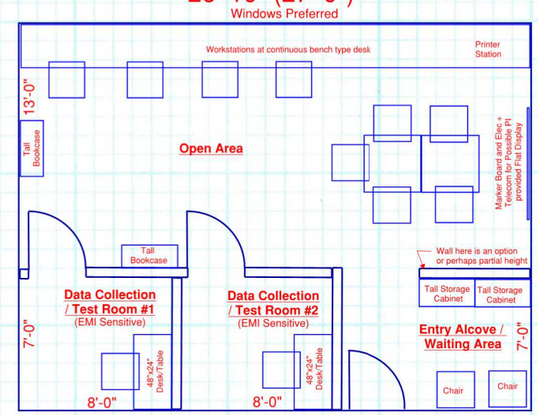
3. To Dev Psych Suite Reception / Waiting Area: The Suite Reception/Waiting Area is to serve all the labs in the Dev. Psych. Suite. These labs have no special need for a closer relationship to the Reception/Waiting Area than other labs in the Suite.

4. ***Sources of EMI:*** ***The labs (Particularly the EEG Test Rooms) should not be located near any sources of EMI beyond that produced by a standard 20A lab electrical receptables or switches.***

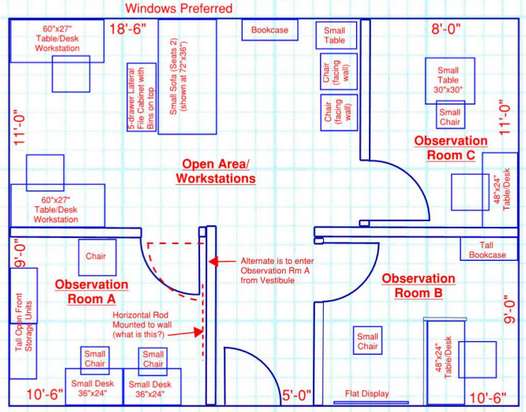
End of Agenda



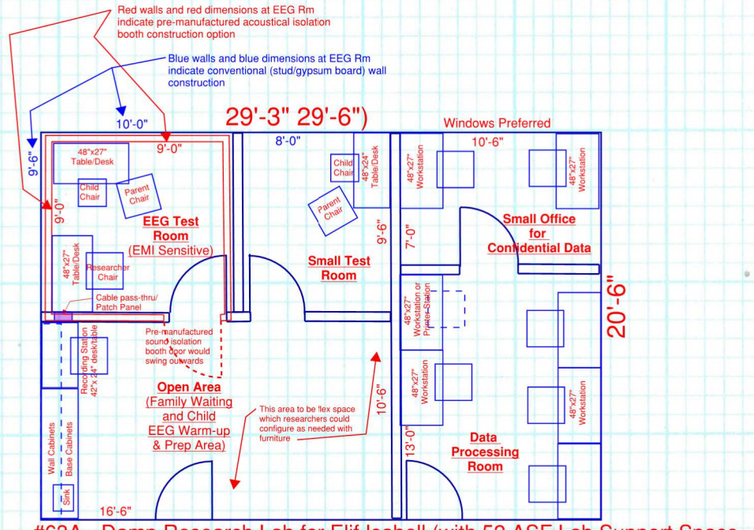
#62A-1: Dry Research Lab
based on current Bortfeld Lab 550 ASF (Plan Option A)



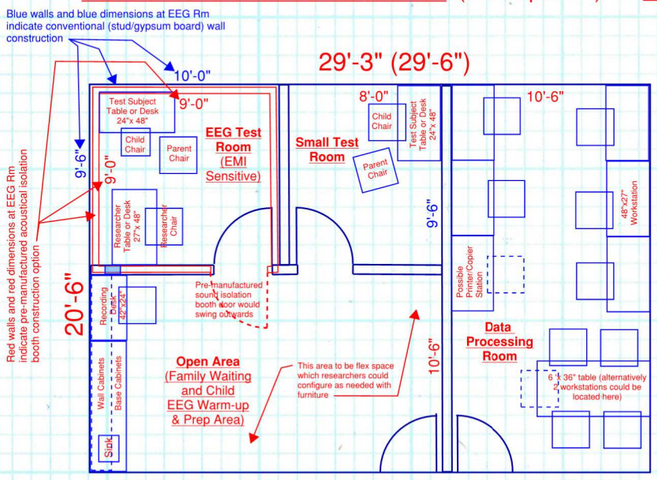
#62A-2: Dry Research Lab For New Hire
based on current Bortfeld Lab) - 550 ASF (Plan Option B)



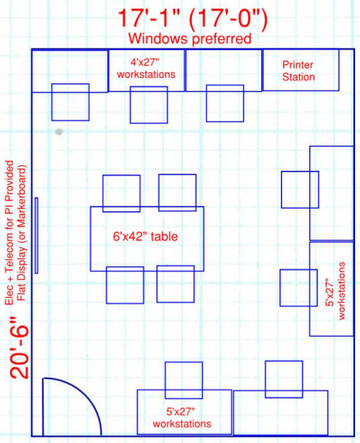
#62B: Dry Research Lab
based on current Scott Lab - 550 ASF



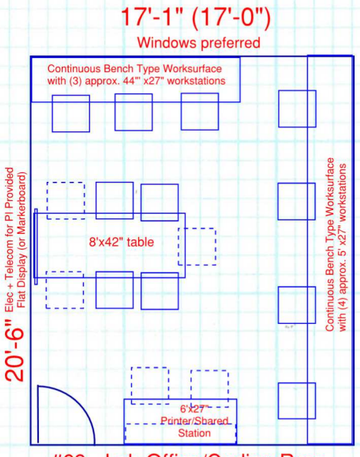
#63A - Damp Research Lab for Elif Isabell (with 52 ASF Lab Support Space Incorporated) Sim to #63B) - 550 ASF + 52 ASF = 602 ASF (600 ASF)



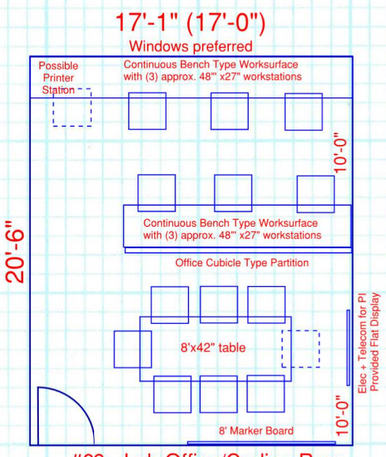
#63B - Damp Research Lab for New Hire (with 52 ASF Lab Support Space Incorporated)
Sim to #63A) - 550 ASF + 52 ASF = 602 ASF (600 ASF)



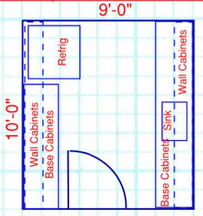
#69 - Lab Office/Coding Rms
7 Rooms @ 350 ASF each
(Option A)



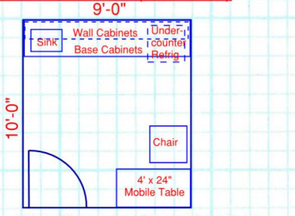
#69 - Lab Office/Coding Rms
7 Rooms @ 350 ASF each
(Option B)



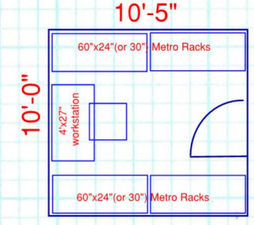
#69 - Lab Office/Coding Rms
7 Rooms @ 350 ASF each
(Option C)



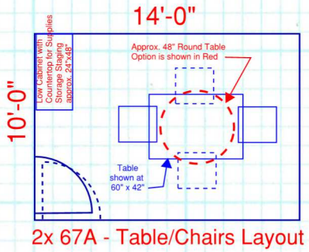
#75 - Breakroom
90 ASF



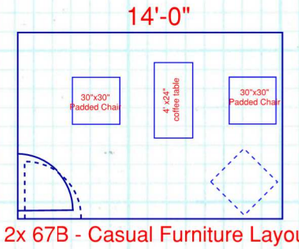
#73-Room for Breastfeeding
and Collection of Samples-90 ASF



#64 - Lab Support Rms
5 Rooms @ 104 ASF each

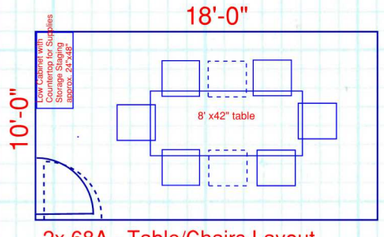


2x 67A - Table/Chairs Layout

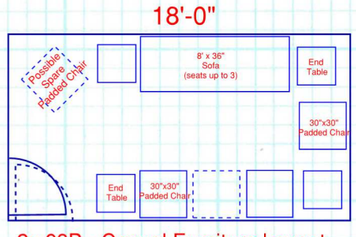


2x 67B - Casual Furniture Layout

#67- Dyadic Discussion Rooms
4 Rooms @140 ASF each

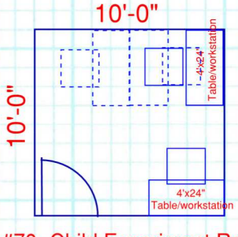


2x 68A - Table/Chairs Layout

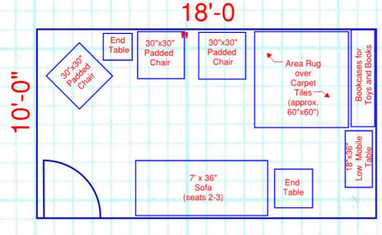


2x 68B - Casual Furniture Layout

#68- Family Discussion Rooms
4 Rooms @180 ASF each



#70- Child Experiment Rooms
4 Rooms @100 ASF each



#71- Child Warm-up/Observation Rooms
3 Rooms @180 ASF each

UCM-HBS-ME

Developmental Psychology Suite #62A - #75 (Overall Suite)

Graphic Program - Room Layouts

25 April 2021 1/8" = 1'-0"