St. Bernard Parish Library
2600 Palmisano Blvd.
Chalmette, LA 70043
504-279-0448 504-279-5427 FAX

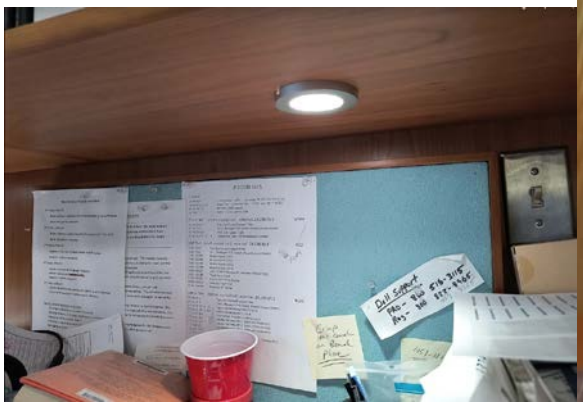
Response to RFI #77 – Cubicle outlet heights
06/11/2024

This is a complex problem that might be best served by having the electrical contractor visit the site in person.

Power to the cubicles are currently provided in two locations. The first location is underneath each countertop at approximately 22" AFF using square junction boxes. The output of the box is a BMX cable that runs underneath the countertop using "L-shaped hangers" to outlets inside the hangars. See photos.

Computers are seated on the floor, with the keyboard, mouse, video wires, and computer monitor power are routed to the top of the countertop by access holes in the corners drilled into the countertop.

The second location is above and below the overhead cabinets. Each cubicle has an on/off switch (approx. 3' 8" AFF) that powers a duplex outlet located just above the cabinet (approx. 6' AFF). Plugged into this switched outlet is a transformer, a low-voltage splitter and wires that power each individual LED lights both inside and underneath the overhead cabinets. See photos.



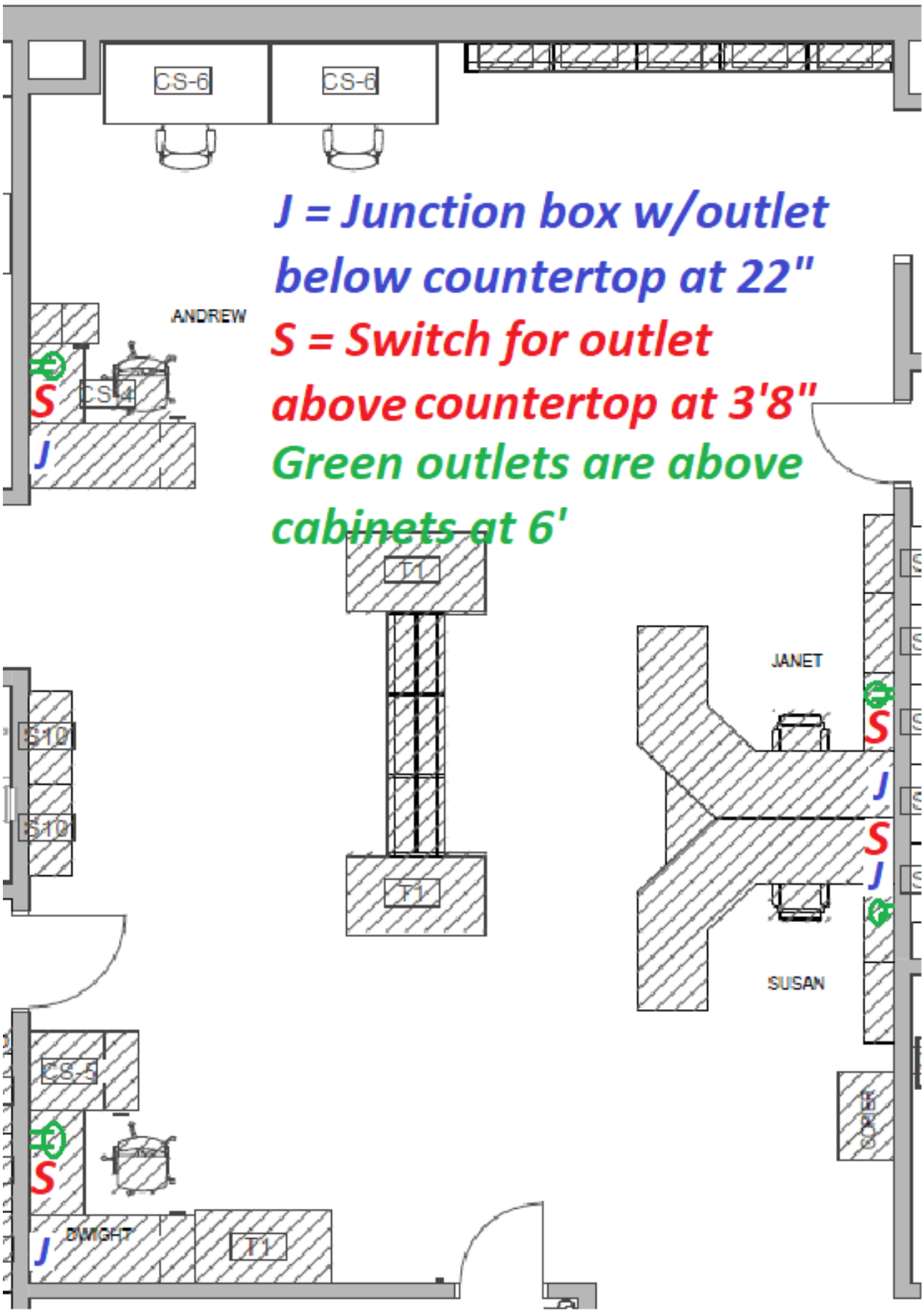
There is a small (approx. ¾") channel at the top rear of the cabinets to route the low voltage LED wires.	

To keep things simple, my suggestion is to keep the square junction boxes (at 22" AFF) and use a duplex outlet in the front of the junction box instead of a blank cover plate. At cubicle installation time, an electrician will need to either knockout another hole in the junction box for the BMX wire and tap the outlet feed, or attach a plug to the end of the cubicle's BMX cable and plug it into one of the duplex outlets on the front of the junction box.

The locations of the switches need to be measured exactly to avoid blank outlet covers in the wood paneling. The switched duplex power outlet can be mounted horizontally exactly above the switch at the 6' AFF level.

These are only suggestions pending the opinions of the electrical contractor. If there is a better way to provide power underneath the countertops without using surface mounted BMX wire and J-hangers, we would be receptive to it.

See diagram on next page for locations of items mentioned in the new library staff area.


CS-6
CS-6
J = Junction box w/outlet below countertop at 22"
S = Switch for outlet above countertop at 3'8"
Green outlets are above cabinets at 6'
ANDREW
CS-4
S
J
T1
T1
S10
S10
JANET
S
J
S
J
SUSAN
CS-5
S
J
DWIGHT
T1
COPIER