

General Notes

1. Dimensions:
Dimensions shown are inside and measured from the inner surface of the lagging. They are not structural, they are intended only to portray the actual useable space.
2. Doors:
The doors at the fore and aft end of the Computer Lab are 26" opening with door removed but only 24" with door on it's hinges.
3. Racks:
Rack dimensions are 24" by 36". Deep racks are required to accomodate some of the existing and future electronics. Cable management space between the racks is allocated 4".
4. Work (table) surfaces:
Table surfaces will be 29" above the deck. Table surfaces are 3/4" finished one side plywood with smooth polyurethane finish. Surfaces are mounted on Unistrut from the bulkheads using standard table brackets. Front and exposed side edges are finished with half-round moulding glued and nailed in place with a flush and sanded surface, particularly on the top surface.

When beat up (by securing temporary equipment) they are easily replaced. Permanent equipment on the table tops are mounted with T-nuts from the bottom.
5. Book shelves:
Two rows of 14" deep book shelves to be mounted between the frames on the Unistrut with the bottom 28" above the work surface. Allow 14" clearance above the inside, bottom of the lower shelf. Provide removeable retaining bars for all shelves.
6. Securing equipment:
All items mounted on walls will be mounted to Unistrut channels to be installed.
Equipment mounted to the deck will be mounted using existing (or new) threaded inserts and foundation plates as necessary. Use of threaded inserts and Unistrut provide optimum flexibility when re-arranging equipment for temporary or longer term installations and reduce the need for hot-work.
Hot work will be required to remove existing foundations, to add some inserts, to mount the Unistrut, and to create a top mount for the new racks.

Instrument Lab Lamont-Doherty Earth Observatory of Columbia University Healy Proposed Computer Lab Renovation Option B: Watch standers looking at equipment and oriented forward			
October 16, 2004	DRAWING NO.	REVISION	SIZE
David Hayes <dhayes@ldeo.columbia.edu>	None	-	A
	FILE NAME	SCALE	
	complan-b2-20041016		

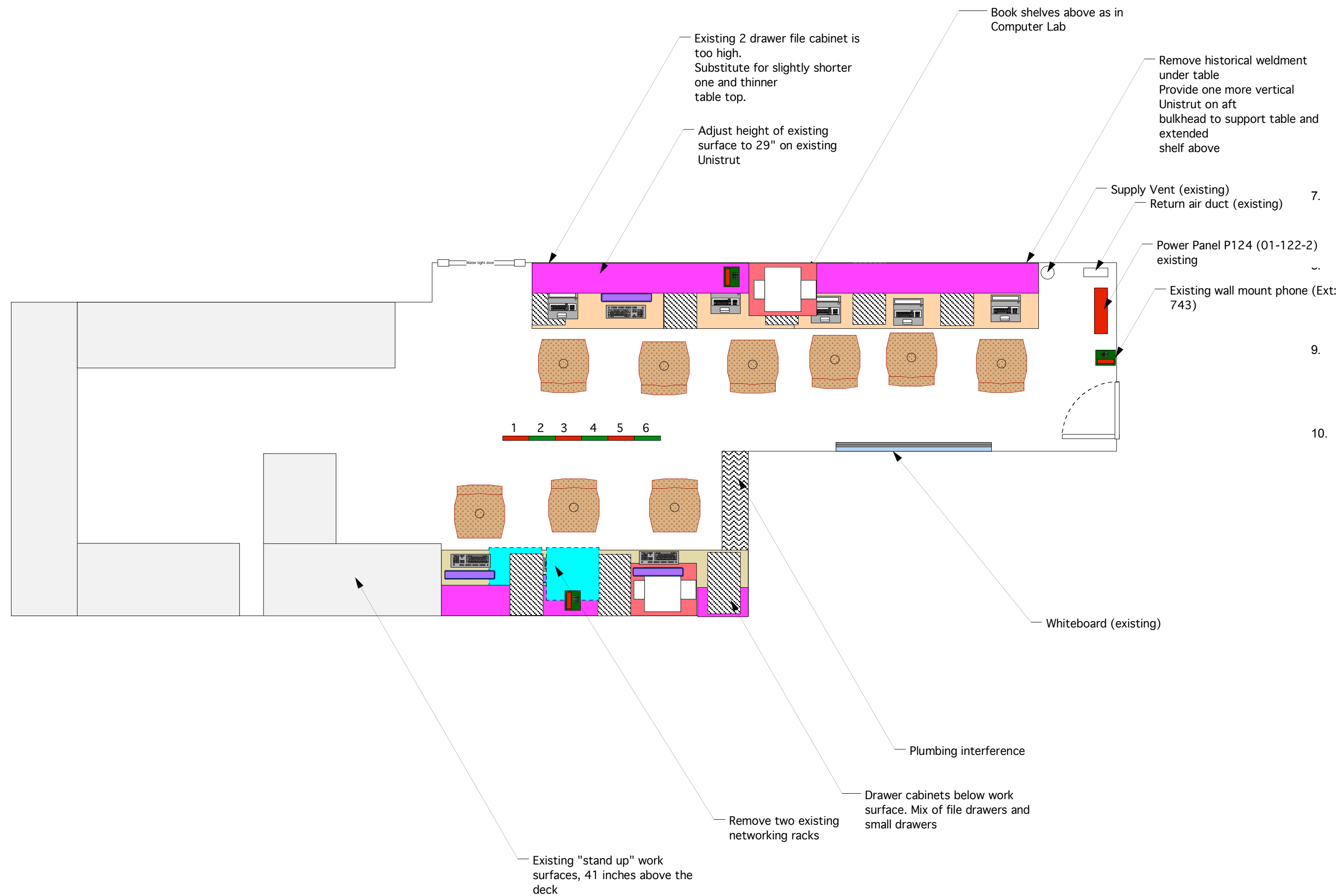
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- October 17, 2004
Add telephones, printers, electrical panel, ducts. Delete spurious "note".
Update "networking" section of "General Notes"

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- Doors:
The doors at the fore and aft end of the Computer Lab are 26" opening with door removed but only 24" with door on it's hinges.
- Work (table) surfaces:
Table surfaces will be 29" above the deck. Table surfaces are 3/4" finished one side plywood with smooth polyurethane finish. Surfaces are mounted on Unistrut from the bulkheads using standard table brackets. Front and exposed side edges are finished with half-round moulding glued and nailed in place with a flush and sanded surface, particularly on the top surface.

When beat up (by securing temporary equipment) they are easily replaced. Permanent equipment on the table tops are mounted with T-nuts from the bottom.
- Book shelves:
Two rows of 14" deep book shelves to be mounted between the frames on the Unistrut with the bottom 28" above the work surface. Allow 14" clearance above the inside, bottom of the lower shelf. Provide removable retaining bars for all shelves.
- Securing equipment:
All items, particularly those mounted on walls will be mounted to Unistrut channels to be installed. Where feasible, file cabinets and other storage on the deck should be secured to the vertical Unistrut.
Equipment mounted to the deck will be mounted using existing (or new) threaded inserts and foundation plates as necessary. Use of threaded inserts and Unistrut provide optimum flexibility when re-arranging equipment for temporary or longer term installations and reduce the need for hot-work.
Hot work will be required to remove existing foundations, to add some inserts, to mount the Unistrut, and to create a top mount for the new racks.
New seats on forward bulkhead
Each of three seats will provide KVM switched access to a computer on the Science network or one on the CGDN+ network. Computer chassis (perhaps mini-ITX style) to be installed on shelf above the work surface in the same style as the printers.
- Printers:
Two small color inkjet or color laser printers in the Future Lab to be installed on shelves above the work surface. Printer on the forward bulkhead to be a fully networked printer on the CGDN+ network. The printer on the aft bulkhead to be fully networked on the science network.
Network connections:
An 802.11(b+g) hub and 100BT service to be provided in the Future Lab for the science network. 100BT connections for the CGDN+ workstations and printer.
- Networking gear such as routers or hubs should
- Telephones:
Telephones to be wall mount models with handset fastening suitable for use at sea. Phones to be mounted on Unistrut with slack in the overhead to allow easy re-positioning.
Separate extensions for the forward bulkhead and aft bulkhead seats. Retain existing phone and extension by the door for general use.
Existing HP 750C large format printer
Remove the HP-750C ink jet printer to shore-side storage or surplus after verifying that there are two working, properly mounted and networked HP-1055CM printers on board. One will be installed in the 02 Copy room.



Instrument Lab Lamont-Doherty Earth Observatory of Columbia University			
Healy Proposed Future Lab Renovation Limited improvements for '04-'05 three new "seats" (MSO, MSTC, Sysadmin)			
DATE October 17, 2004	DRAWING NO. -	REVISION -	SIZE A
DRAWN BY Kate Chayes <kate@ldeo.columbia.edu>	None	FILE NAME complab-b2-20041016	SCALE