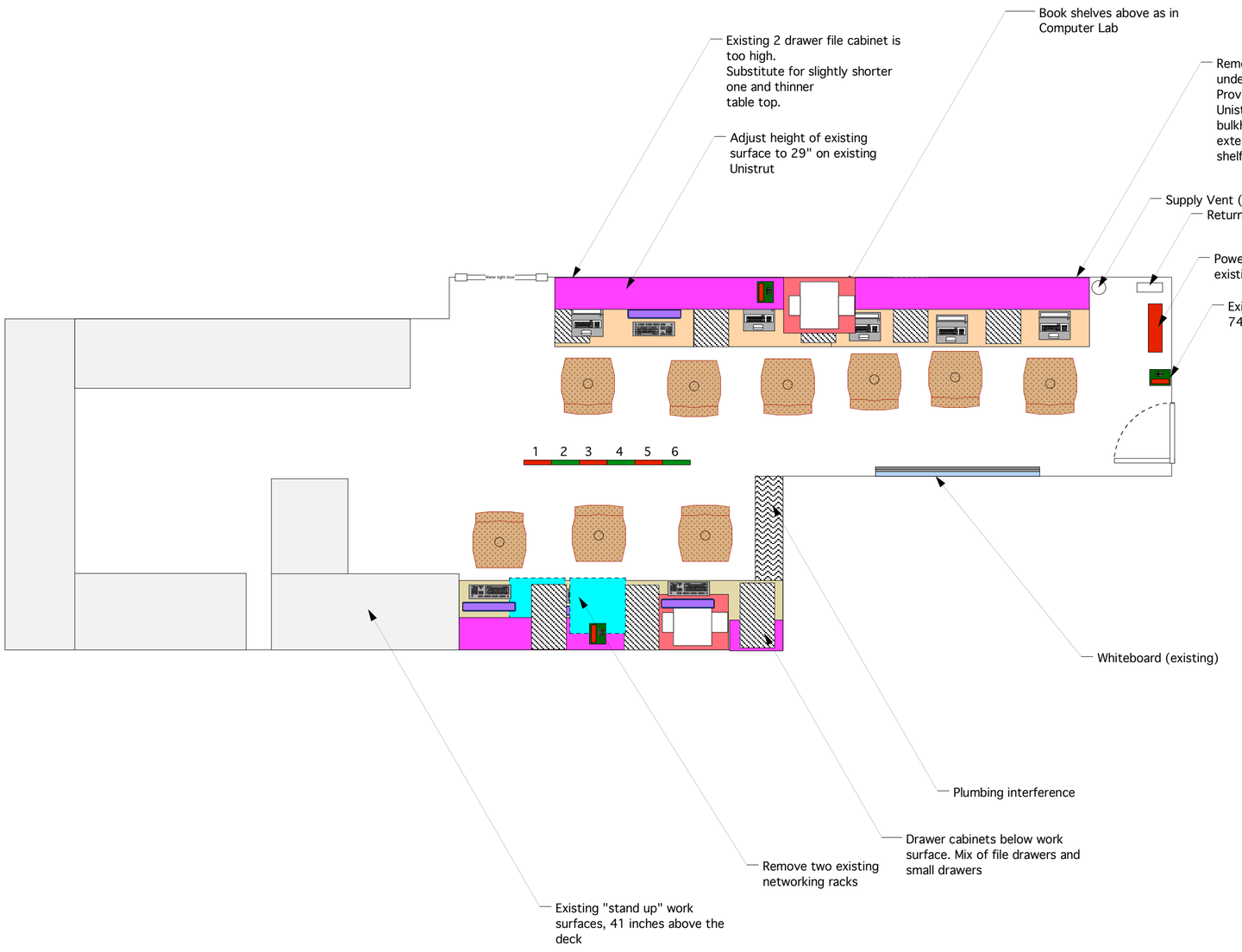
General Notes

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



1 2 3 4 5 6

Ruler: units = feet

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. 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 bulkheds using standard table brackets. Front and exposed side edges are finshed 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 temporay equipment) they are easily replaced. Permanent equipment on the table tops are mounted with T-nuts from the bottom.
4. 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.
5. 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 flexibitliy 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.
7. 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 priner on the CGDN+ network. The printer on the aft bulhead 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
9. 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.
10. 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)		
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