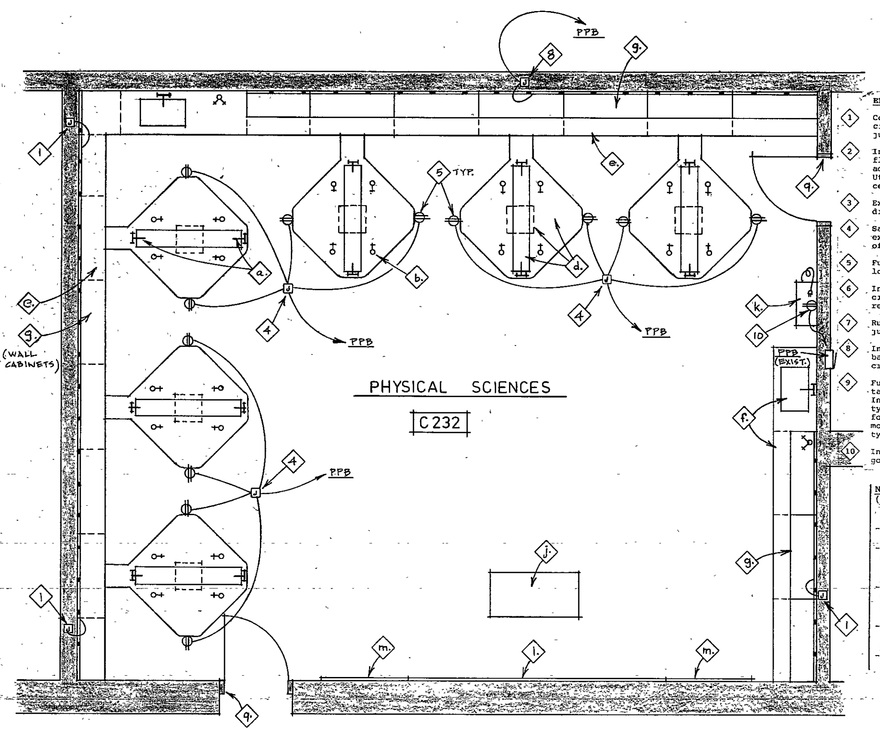
PANEL NOTES:
PNL. PPB (LABELED '326') IS 42 CCT. 1P, 115/208V AND SERVES POWER CIRCUITS OF LAB RM. C232 AMONG OTHERS. THIS PANEL HAS 6 BLANK SPACES REMAINING. INSTALL (4) NEW 20A CCT BREAKERS TO SERVE NEW RECEPTACLE/PLUGMOLD NEEDS OF LAB RM. C232.



NEW RM. C232 LAYOUT / ELEC. POWER PLAN
(SEE DRWG. SHT. SL-2 FOR MECH. / CEILING INFO.) 1/4" = 1'-0"

ELECTRIC NOTES

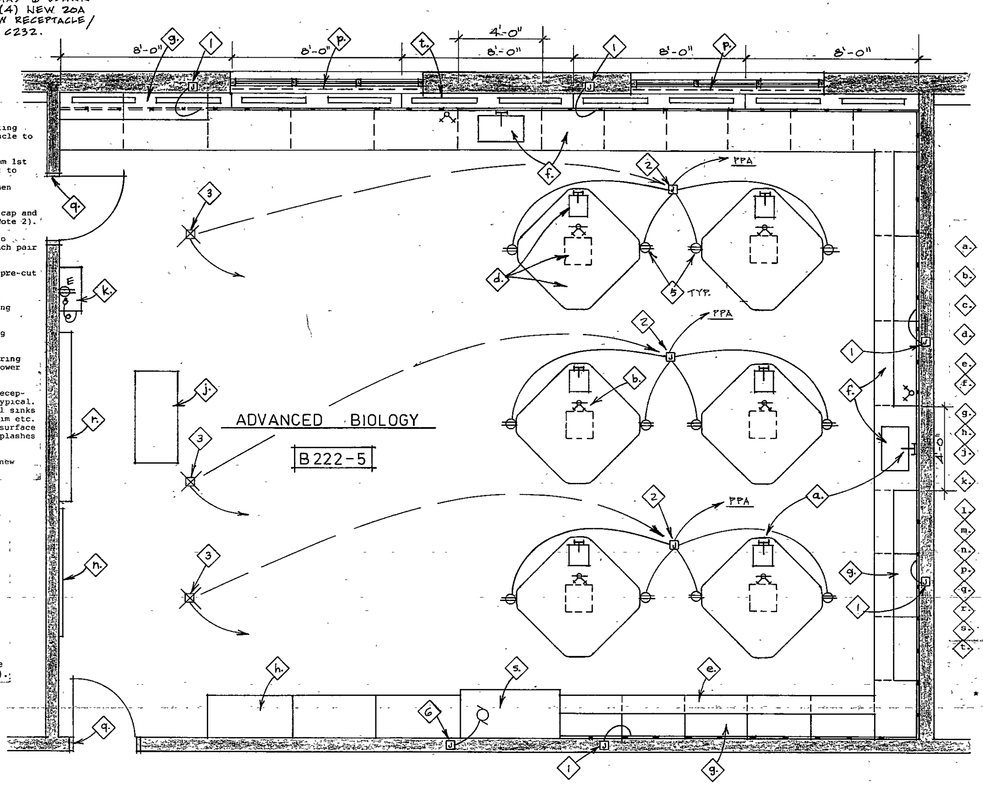
1. Connect new plugmold power receptacle strip to existing circuit at former duplex receptacle (Connect receptacle to junction box as req'd.)
2. Install new junction box below floor (accessible from 1st floor lay-in tile ceiling below) and run new conduit to adjacent Lab. island stations thru center pedestals. Utilize existing circuits (1 ea.) being abandoned when ceiling power track is removed.
3. Existing ceiling power track junction boxes (remove/cap and direct power feed to new island junction boxes per Note 2).
4. Same as Note 2, except, run new conduit and wiring to existing panel PPB and provide one new circuit to each pair of Lab. islands.
5. Furnish & install new duplex receptacles in factory pre-cut locations on new Lab. islands.
6. Install new power feed for animal care cabinet using circuit/junction box from adjacent sink disposal being removed.
7. Run new conduit to adjacent Lab islands from existing junction box that served former islands.
8. Install new wall junction box and run new conduit/wiring back to existing panel PPA (or PPB) to provide new power circuit for new plugmold power receptacle strip.
9. Furnish & install new surface mount plugmold power receptacle strips as shown. Receptacles to be 18" o.c. typical. Install matching blank 4 ft. raceway sections at wall sinks typical. Install all corner transition/connector trim etc. for a continuous appearance. New plugmold is to be surface mounted to back wall just above new countertop backsplashes typical.
10. Install new duplex receptacle @ approx. 36" ht. for new goggle sterilization cabinet.

NEW ROOM FINISHES
(typ. Rms. C232, B222-5 & B220)

FLOORS:
-New 12" x 12" x 1/8" vinyl floor tile.
-New 4" H. vinyl cove base (incl. base cabinet & island top spaces)

WALLS:
-New vinyl wall fabric full Ht., except Rm. C232 N. & W. walls which are to receive 2 coats paint over exist. vinyl wall fabric.
-Paint all H.M. Door Frames, 2 coats Enamel.

CEILINGS:
-Install new 2 x 4 lay-in acoust. ceiling tile in existing mtl. suspension grid (clean grid).



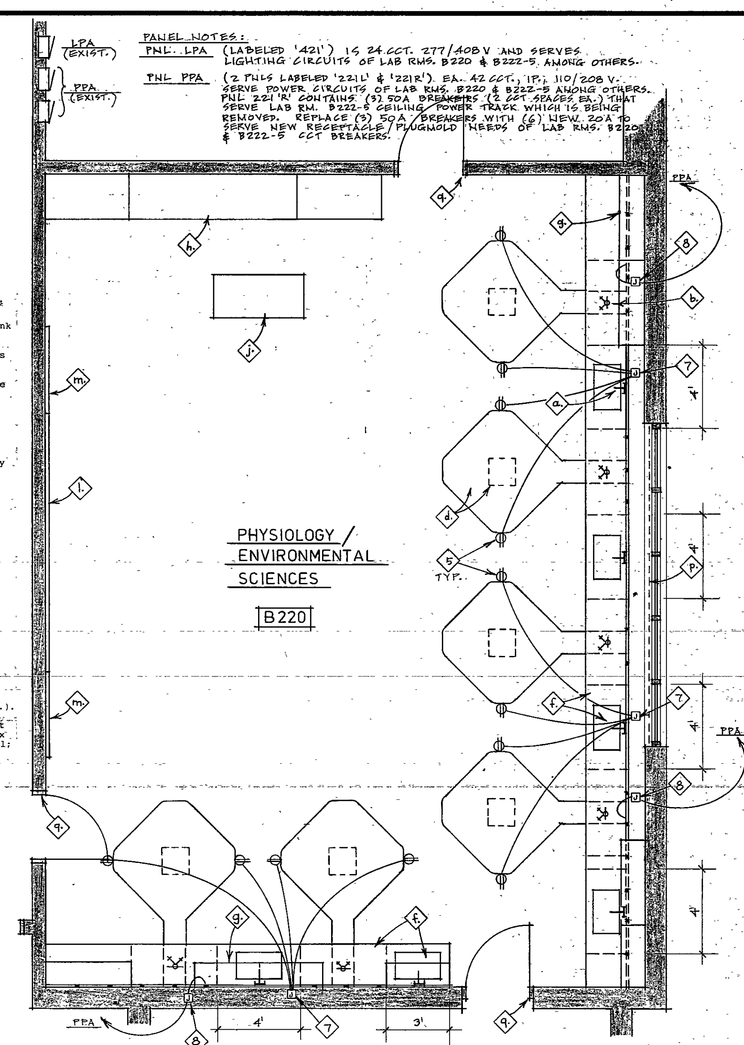
NOTES

a. See Plumbing Plan Drwg. Sht. SL-2 for Sink Faucet, CW, HW, Waste & Vent Info. *
b. See Plumbing Plan Drwg. Sht. SL-2 for Gas Cock Piping Info. *
c. New island units w/center pedestal & base cabinets typ. *
d. New island units w/center pedestal, base cabinets & factory formed resin sink *
e. New base cabinets & countertops typ. *
f. New base cabinets & countertops w/factory formed resin sink *
g. New wall cabinets *
h. New 7'H. wardrobe type cabinets *
i. New portable demonstration table * (no Mech./Elec. req'd.).
j. New goggle storage/sterilizer cabinet * (Requires Elec.).
k. New 4' x 12' marker board *.
m. New 4' x 4' tack board *
n. New 4' x 6' tack board *
o. New window blinds *
p. Paint H.M. Door Frame
r. New sliding marker board *
s. New animal care cabinet * (Requires Elec.).
t. New Plastic Laminate/Aluminum Grille Rest Register Covers (5 ea.)reqd. @ 8'-0" L x 1'-0" W - See Spec. Sect. 6200 for Detail & 15850 for Grille Descript.

* Denotes Work by Owner.

NEW RM. B222-5 LAYOUT / ELEC. POWER PLAN
(SEE DRWG. SHT. SL-2 FOR MECH. / CEILING INFO.) 1/4" = 1'-0"

PANEL NOTES:
PNL. LPA (LABELED '421') IS 24 CCT. 277/480V AND SERVES LIGHTING CIRCUITS OF LAB RMS. B220 & B222-5 AMONG OTHERS.
PNL. PPA (2 PNLS LABELED '221' & '221R') EA. 42 CCT, 1P, 110/208 V. SERVE POWER CIRCUITS OF LAB RMS. B220 & B222-5 AMONG OTHERS. PNL 221 'R' CONTAINS (5) 20A BREAKERS (2 CCT SPACES EA.) THAT SERVE LAB RM. B222-5 CEILING POWER TRACK WHICH IS BEING REMOVED. REPLACE (5) 20A BREAKERS WITH (6) NEW 20A TO SERVE NEW RECEPTACLE/PLUGMOLD NEEDS OF LAB RMS. B220 & B222-5 CCT BREAKERS.



NEW RM. B220 LAYOUT / ELEC. POWER PLAN
(SEE DRWG. SHT. SL-2 FOR MECH. / CEILING INFO.) 1/4" = 1'-0"

NEW CONSTRUCTION NOTES
(RMS. C232, B222-5 & B220)

A. NEW CABINETS & COUNTERTOPS:
1. New wall, base, island and portable demonstration table cabinets and associated new laboratory countertops are being furnished and installed (except for necessary Plumbing, HVAC & Electrical hook-ups) by others under separate contract with Owner.
2. New countertops have integral factory-furnished premoulded resin formed sinks.
3. New countertops are being furnished predrilled for new faucets, drains and gas cocks.
4. New island countertops are also being furnished with cutouts for new electric duplex receptacles.
5. New base cabinets that run along outside exterior walls are being furnished with open toe spaces and toe-space grilles for air supply to heat registers.

B. NEW FLOOR COVERINGS:
1. Install new 12" x 12" x 1/8" vinyl floor tile over existing vinyl floor tile in all rooms. New tile is to be installed prior to delivery/installation of new cabinets and is to be installed wall-to-wall. Install vinyl transitions at doorways typical.
2. Install new 4" high vinyl cove base typical at all walls, @ island pedestals and at new cabinet toe spaces (except @ toe spaces of new cabinets @ S. wall of Rm. B222-5 & W. wall of Rm. B220 where toe space grilles are being furnished).
3. Wash all new floor tile at completion of project (waxing by Owner).

C. NEW CEILINGS:
1. Existing 2 x 4 suspended metal ceiling grid is to remain. Clean grid.
2. Install new 2 x 4 lay-in acoustical ceiling tile.
3. Make cutouts in new 2 x 4 lay-in ceiling tile as required to fit existing S.A. diffusers, existing ceiling P.A. speakers and new exhaust system grilles etc.

D. NEW WALL FINISHES:
1. Install new vinyl wall coverings on all walls typical (except for N. & W. walls of Rm. C232 where existing vinyl wall covering is to remain); All existing walls are 9'-4" floor to ceiling.
2. Apply 2 coats latex paint to N. & W. walls of Rm. C232.
3. Apply 2 coats latex enamel paint to all H.M. door frames. All frames are 3'-4" W x 7'-2" H typical.

E. PLUMBING:
1. Modify existing plumbing lines as required to serve new sinks. Run new piping for waste, vent and H.W. & C.W. lines. In some cases, existing plumbing from former sink locations can be modified to suit new sink locations along walls. In other cases, new lines may need to be run below floors (above suspended ceilings of first floor rooms below Labs), especially to serve new free-standing island sinks in Rm. B222-5 and to serve new island sinks near S. wall in Rm. B232. All H. W. & C.W. piping shall be insulated with 1" Armaflex (or similar) pipe wrap.
2. All new sinks are factory moulded into countertops typically. New faucets and drain fittings are furnished loose with new lab countertops. Contractor shall install faucet & drain and furnish and install all necessary associated piping, acid-resistant 'P' traps fittings, shut-offs etc. for each sink. All sinks require both hot and cold water supplies. Long rectangular sinks in Rm. C232 & islands have two (2) each faucets, one @ each end of sink and one center drain. All other sinks have only one faucet and drain. Countertops are predrilled for faucets and sinks are predrilled for drains.
3. Install new duplex and 4-plex gas cocks and associated gas piping to countertop locations shown on drawings. Countertops are predrilled for gas cocks. Gas cocks are furnished loose with countertops. Each lab room shall be furnished with one single master gas shut-off valve that is to be readily accessible and clearly marked with engraved plastic sign (2" x 8" approx. 'GAS SHUT-OFF').
4. NOTE: There will be no disposer units required for any of the new lab sinks.
5. Install deck-mounted eye-wash units where shown on drawings. These units are furnished loose with cabinets/countertops. Run C.W. line with shut-off valve to eyewash.

F. HVAC:
1. Furnish and install new exhaust system in each room as detailed on drawings.
2. Furnish and install new roof top exhaust fan. Modify existing roof curb as necessary to accommodate new fan. Flash to existing membrane rubber roof as necessary for a waterproof installation. (Roof is approx. 8 ft. above exist. suspended ceiling in Rms. B222-5 & B220 and 4½ ft. above ceiling in Rm. C232. Roof structure is steel bar joist/metal deck construction.)
3. Furnish and install new ductwork as detailed above suspended ceilings. Tie-in to existing ductwork where detailed. Install back-draft damper in main duct to curb.
4. Furnish and install new ceiling exhaust grilles where detailed.
5. Reinstall previously removed ceiling S.A. diffusers once new ceiling tile is installed.
6. Reinstall existing ceiling escutcheons for exist. 4" dia. fume hood vent pipe.

G. ELECTRICAL:
1. Revise existing lab room duplex receptacles as shown on drawings. In some cases where existing receptacles were formally located in countertop backsplashes, existing receptacles are to be capped/abandoned and modifications made to convert to plugmold power strips located immediately above new countertop backsplashes. In other cases where new cabinets/countertops are being installed where none were previously situated, it will be necessary to similarly change over existing duplex receptacles to plugmold power strips.
2. Also, furnish and install new plugmold power strips at wall locations shown on drawings where no receptacles were previously located. It will be necessary to run new conduit and wiring to these strips.
3. Extend conduit and wiring to connect new island duplex receptacles. Islands come with factory installed duplex receptacles (2 per island typical).
4. Reconnect new exhaust fans (on rooftop curbs) to existing power/switch wiring that previously served old exhaust fans.
5. Reinstall existing ceiling P.A. speakers once new ceiling tile is installed.
6. Run new 120V power to new goggle storage/germicidal treatment cabinets (have 2 UV lamps self-contained to disinfect goggles) located in Rms. C232 and B222-5.
7. Run new 120V power feed to new animal study center cabinet. New clean circuit required for cabinet power (cabinet contains blower and electric heater). Make wiring hook-up to cabinet instrument panel.

H. WORK BY OWNER:
1. Furnishing and installation of new wall and base cabinets, islands, demonstration tables and countertops.
2. Reinstallation of various items incl. wall clocks, paper towel dispensers, channel 1 T.V. monitor & shelf bracket, chalkboards, backboards, projection screens, fire extinguishers, and map tack strips.
3. Furnishing and installation of student desks, tables, stools, lab equipment and supplies, wall charts, pictures etc.
4. Waxing of new vinyl floor tile.

DEMOLITION NOTES
(RMS. C232, B222-5 & B220)

A. CABINET/COUNTERTOP REMOVAL:
1. Remove all existing wall, base and island cabinets and all lab countertops. Dispose of cabinets and countertops offsite in legal manner at no additional cost to Owner. Remove and salvage existing cabinet toe space S.S. grille covers in Rms. B222-5 & B220.
2. Remove all countertop sinks in conjunction with countertop removal.
3. See Plumbing/HVAC/Electrical Demolition notes for associated Mech./Elec. removal/capping/salvaging work.

B. FLOOR:
1. Remove all vinyl base.
2. Patch/Fill all vinyl tile areas as required where base cabinets and islands removed in preparation for new 12" x 12" vinyl floor tile over existing vinyl floor tile. Clean/strip existing tile for proper adhesion of new tile. Remove/Patch floor wherever cabinet anchor bolts removed and wherever piping penetrations occur.

C. CEILING:
1. Remove all 2 x 4 lay-in acoustical ceiling tile (existing ceiling suspension grid to remain. Clean grid prior to installation of new ceiling tile.
2. Remove all ceiling S.A./R.A. diffusers and grilles as required for ceiling tile removal. Clean diffusers and grilles and reinstall when new ceiling tile installed.

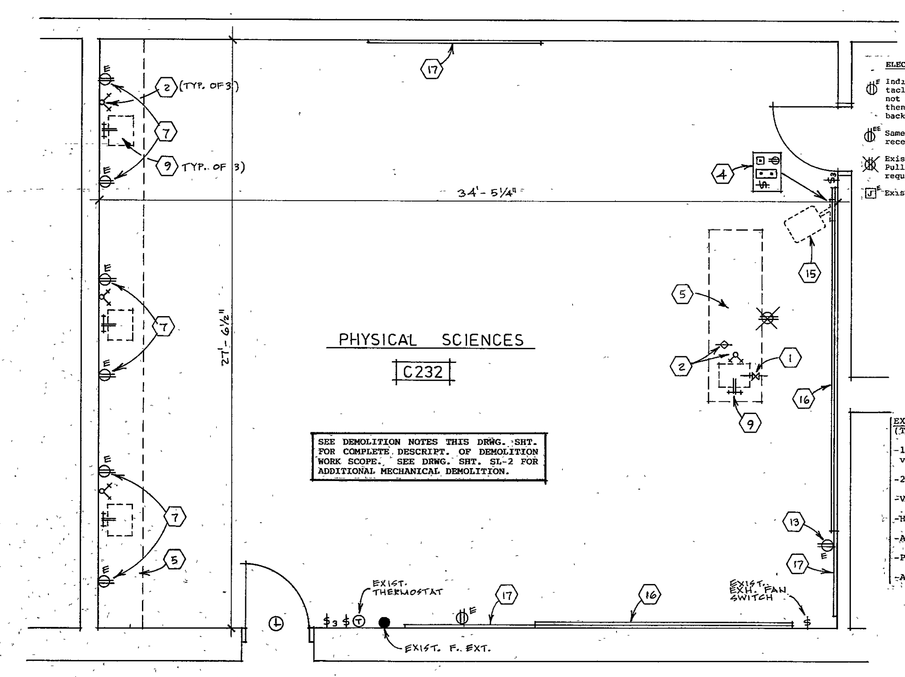
D. WALLS:
1. Remove existing vinyl wall covering from all walls typical (except, existing vinyl wall covering to remain @ Physical Sciences C232 N. & W. walls)
2. Patch all walls where vinyl wall covering removed and prep for new vinyl wall covering.
3. Remove window drapes and drapery tracks and turn over to Owner.
4. Remove/reinstall door wall bumpers (once new vinyl wall coverings installed).
5. Remove/Reinstall existing surface mounted (above and adjacent to sinks) paper towel dispensers.

E. PLUMBING:
1. Remove and salvage all sink faucets and gas cocks and regulators. Turn items over to Owner.
2. Cap all existing H.W., C.W., waste and vent lines flush with walls or floor. (Piping is accessible above suspended ceilings of first floor rooms below). Disconnect/remove piping as required for cabinet/countertop removal.
3. Cap all existing gas lines flush with walls or floor. (Note, each room has a single master gas cut-off valve). Disconnect/remove piping as required for cabinet/countertop removal.
4. Cap C.W & & waste piping at Aquarium cabinet @ E. Wall of Rm. B220.

F. HVAC:
1. Remove all existing exhaust system ceiling grilles, all associated above-ceiling exhaust ductwork (except ductwork specifically shown to remain) and roof top exhaust fans.
2. Remove existing heat register cap trim @ South wall of Rm. B222-5. (New wider continuous cap trim to be furnished and installed across entire width of South wall.)
3. Cap/Remove existing countertop mounted air cocks/piping. (Air system is being abandoned in all Labs).

G. ELECTRICAL:
1. Remove all existing countertop backsplash mounted electric duplex receptacles, sink disposer switches, and associated wiring and conduit. Remove electric feeds and receptacles at lab islands. Cap wiring per code and make safe. (Note, existing backsplash mounted receptacles will be replaced by wall-mounted surface plug mold mounted above backsplashes when new lab counters are installed). Remove wall receptacle boxes where backsplashes removed. Pull wiring as required so raceways can be abandoned per code.
2. Cap/disconnect exhaust fan power/switch wiring above ceiling. (To be extended/reconnected to new exhaust fan).
3. Remove existing Rm. B222-5 ceiling mounted track light power strips (3 @ 30 ft. long ea.). Cap wiring above ceiling per code. Track light power strips are to be turned over to Owner. Power strips will not be reinstalled.
4. Cap all elec. wiring to existing Lab. Instructor Demonstration tables in Rms. C232 & B220. Remove conduit feed thru floor and cap flush. Cap elec. feed @ accessible ceiling in room directly below, or reroute existing circuit to other location where designated.
5. Remove elec. duplex receptacle and greenfield stub @ Aquarium cabinet @ E. wall of Rm. B220. Change to recessed duplex wall receptacle.
6. Remove all existang S.S. duplex receptacle covers, blank covers and light switch covers and replace with new S.S. covers.
7. Clean all 2 x 4 lay-in light diffusors; remove existing fluorescent lamps; and install new F40-CW lamps.
8. Removal/Reinstallation of ceiling mounted P.A. Speakers (once new ceiling tile is installed).

H. WORK BY OWNER:
1. Removal/Reinstallation of wall mounted clocks and ceiling mounted pull-down projection screens.
2. Removal/Reinstallation of wall mounted Channel 1 T.V. monitors/wall brackets.
3. Removal of all student desks, tables and stools.
4. Removal of all miscellaneous lab. equipment and supplies (i.e. countertops will be cleared and cabinets emptied).
5. Removal/Reinstallation of existing chalkboards and tackboards.
6. Taking down of all wall charts, pictures, teaching materials etc.
7. Removal/Reinstallation of fire extinguishers.
8. Removal/Reinstallation of map tack strips.
9. Removal/Reinstallation of sink area paper towel dispensers.



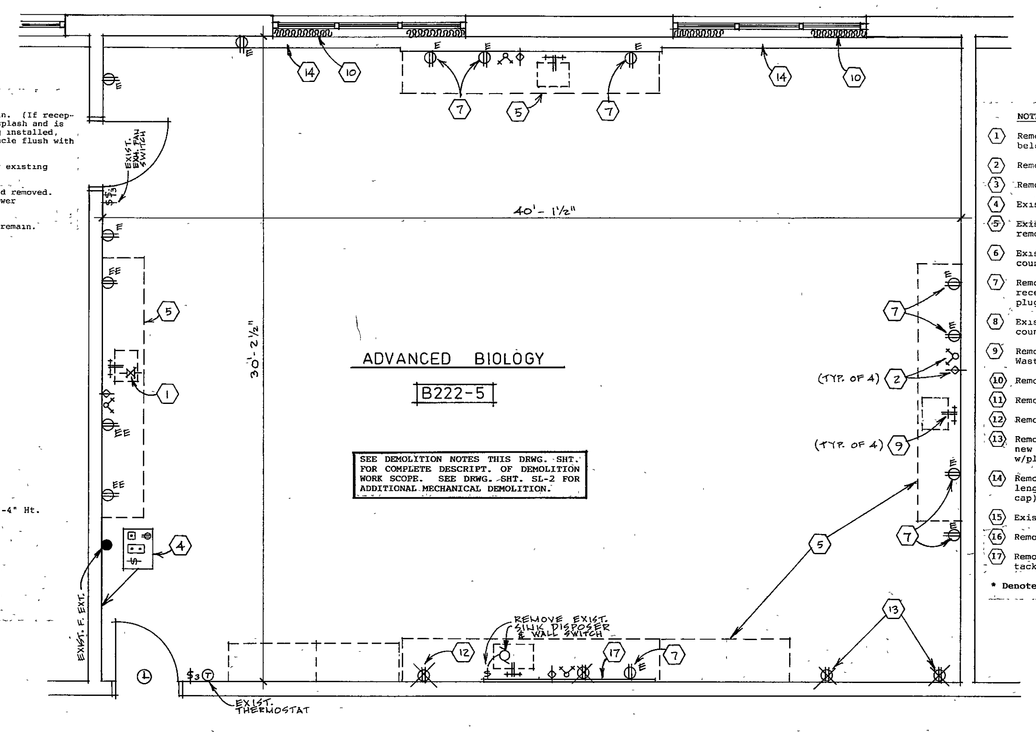
RM. C232 DEMOLITION PLAN
(SEE MECH. / PLUMB. PLAN & CEILING / EXH. PLAN DRWG. SHT. SL-2 ALSO) 1/4" = 1'-0"

ELECTRICAL SYMBOLS

- Indicates existing duplex receptacle to remain. (If receptacle is located in existing countertop backsplash and is not in location where new countertop is being installed, then contractor shall recess existing receptacle flush with back wall.
- Same as, except, in addition, also lower existing receptacle to 3'-6" ht. above floor.
- Existing duplex receptacle to be abandoned and removed. Pull/Reroute wiring/circuit for other room power requirements.
- Existing junction/wiring distribution box to remain.

EXISTING ROOM FINISHES
(Typ. Rm. C232, B222-5 & B220)

-12" x 12" vinyl floor tile & 4" H. vinyl cove base
-2 x 4 susp. acoust. tile ceilings @ 9'-4" Ht.
-Vinyl wall fabric over drywall
-H.M. door frames w/stained Wd. doors
-Alum. Windows
-Prefinished metal unit ventilators
-All wood lab cabinets w/resin tops

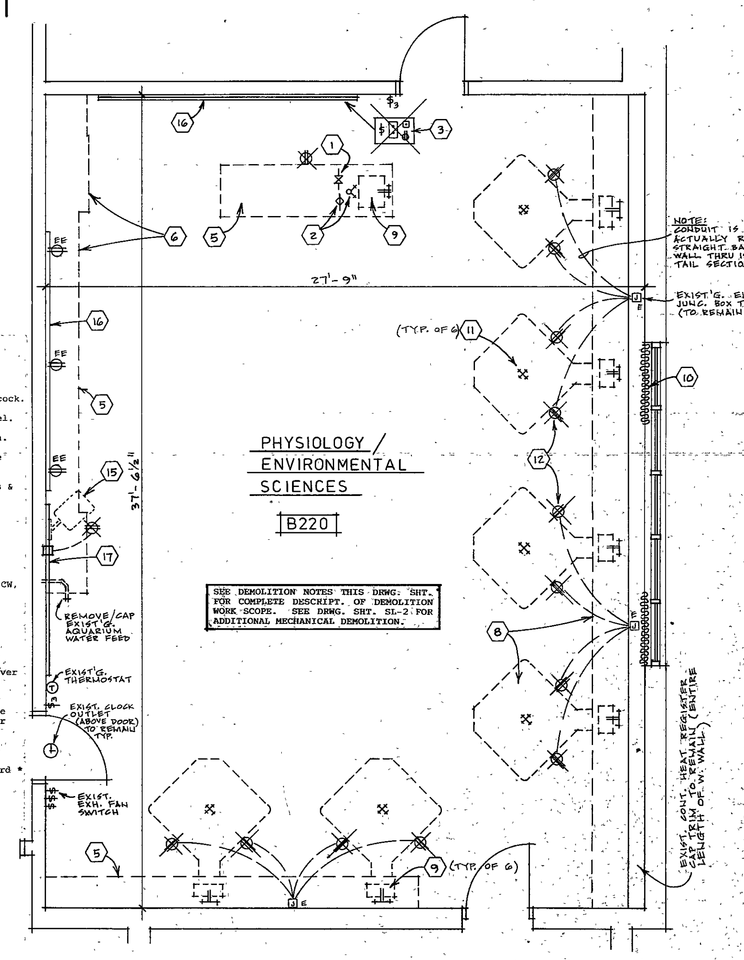


RM. B222-5 DEMOLITION PLAN
(SEE MECH. / PLUMB. PLAN & CEILING / EXH. PLAN DRWG. SHT. SL-2 ALSO) 1/4" = 1'-0"

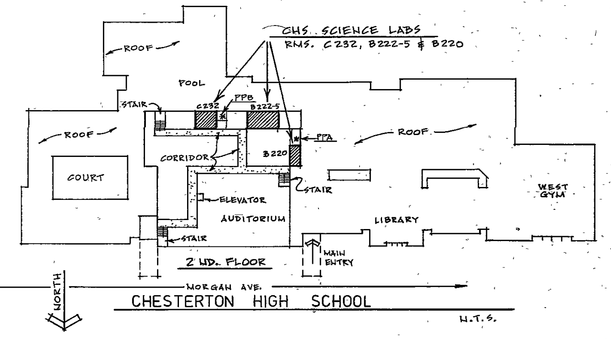
NOTES

1. Remove/relocate exist. master gas shut-off below sink.
2. Remove/cap exist. 2-plex gas cock and air cock.
3. Remove/cap exist. audio-visual control panel.
4. Exist. audio-visual control panel to remain.
5. Exist. Lab base cabinets & countertop to be removed typ.
6. Exist. Lab wardrobe cabinets, base cabinets & countertops to be removed.
7. Remove/cap countertop backsplash duplex receptacles typ. (to be replaced w/cont. plugmold abv. backsplash).
8. Exist. Lab base cabinets, island units & countertops to be removed typ.
9. Remove exist. sink faucet. Cap exist. HW, CW, Waste & Vent typ.
10. Remove exist. drapes & track.
11. Remove/cap exist. 4-plex gas cock.
12. Remove/cap exist. duplex receptacle typ.
13. Remove/cap exist. wall duplex recept. wherever new cabinets/counters shown (to be replaced w/plugmold abv. backsplash).
14. Remove exist. cont. heat register cap entire length of south wall (to be replaced w/wider cap).
15. Exist. channel 1 TV monitor w/wall bracket*
16. Remove exist. 4' x 12' or 4' x 16' chalkboard *
17. Remove exist. 4' x 4', 4' x 6' or 4' x 8' tackboard *

* Denotes Work by Owner



RM. B220 DEMOLITION PLAN
(SEE MECH. / PLUMB. PLAN & CEILING / EXH. PLAN DRWG. SHT. SL-2 ALSO) 1/4" = 1'-0"



REVISIONS | BY

SUMMER 1993 DUNELAND RENOVATION PROJECTS
DUNELAND SCHOOL CORPORATION chesterton, indiana
SCIENCE LABS FLOOR PLANS NOTES DETAILS
architects / kingl architects, inc. chesterton, indiana

DATE 3/10/93
SCALE 1/4" = 1'-0"
DRAWN TLA
JOB 9301
SHEET SL-1
OF 7 SHEETS

10-15-20

STOCKCRAFTING FORM NO 191-96