

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703. Fax: (207) 874-8716

Permit No: 01-1519	Issue Date: JAN 16 2002	CBL: 053 D007001
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**PERMIT ISSUED**  
**CITY OF PORTLAND**

Location of Construction: 22 Bramhall St	Owner Name: Maine Medical Center	Owner Address: 22 Bramhall St	Phone: 871-2447
Business Name:	Contractor Name: Langford & Low, Inc.	Contractor Address: PO Box 662 Portland	Phone: 2077975141
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: R-6

Past Use: Hospital	Proposed Use: Hospital	Permit Fee: \$1,764.00	Cost of Work: \$290,000.00	CEO District: 2
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FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: I-2 Type: ZB BOCA 1999
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Proposed Project Description: Demo & Reconstruct 8th Floor Richards Wing	Signature: <i>[Handwritten Signature]</i>	Signature: <i>[Handwritten Signature]</i>
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PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
Action: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	Signature: <i>[Handwritten Signature]</i> Date:

Permit Taken By: dgc	Date Applied For: 12/13/2001	<b>Zoning Approval</b>
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: <i>12/14/01</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>01/16/02</i></p>	<p>Historic Preservation</p> <p><input type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>Any exterior work requires a separate permit and review</i></p>
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**EXPIRED**

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT \_\_\_\_\_ ADDRESS \_\_\_\_\_ DATE \_\_\_\_\_ PHONE \_\_\_\_\_

RESPONSIBLE PERSON IN CHARGE OF WORK. TITLE \_\_\_\_\_ DATE \_\_\_\_\_ PHONE \_\_\_\_\_

② 3/26/29 Expired permit. No one called for a  
firm insp.

01-1519

# All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 22 BRAMHALL STREET.

Total Square Footage of Proposed Structure 2300 Square Footage of Lot

Tax Assessor's Chart, Block & Lot  
Chart# 053 Block# D Lot# 001  
Owner: MAINE MEDICAL CENTER Telephone: 871-2447

Lessee/Buyer's Name (If Applicable) \_\_\_\_\_  
Applicant name, address & telephone: LANGFORD + LOW, INC.  
248 WARREN AVE.  
Portland, Me. 04104  
Cost Of Work: \$ 290,000  
Fee: \$ 1,764.00

Current use: CATH LABS & Control Rm. auto CAD will be emailed  
If the location is currently vacant, what was prior use: SAME.  
Approximately how long has it been vacant: 1 month.  
Proposed use: CATH. LABS & Control Room.  
Project description: Demo & Reconstruction of 2300 Square Ft. on  
the 8th floor of the Richards wing.

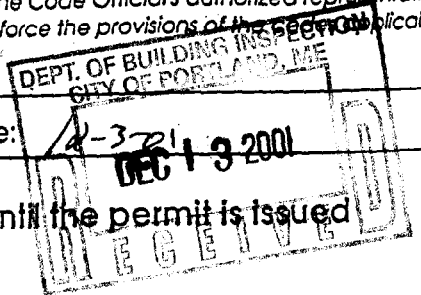
Contractor's name, address & telephone: LANGFORD + LOW  
248 Warren Ave.  
Portland, Me. 04104 797-5141  
Who should we contact when the permit is ready: GUS Daugherty  
Mailing address: 248 WARREN AVE.  
Portland, Me. 04104 Phone: 797-5141

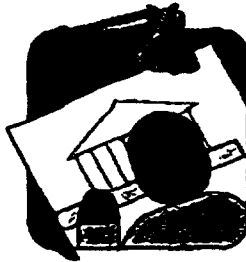
IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the Code applicable to this permit.

Signature of applicant: [Signature] Date: 12-3-2001

This is not a permit, you may not commence ANY work until the permit is issued





**CITY OF PORTLAND MAINE**

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

TO: Inspector of Buildings City of Portland, Maine  
Planning & Urban Development  
Division of Housing & Community Services

FROM DESIGNER: JSA, INC.

DATE: DECEMBER 4, 2001

Job Name: Maine Medical Center 8th Floor RENOVATION EP LAB

Address of Construction: 22 Branhall street

**THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION**

Construction project was designed according to the building code criteria listed below:

Building Code and Year BOCA 1999 Use Group Classification(s) Hospital (I-2)

Type of Construction TYPE II-B Bldg. Height N/A (Highrise) Bldg. Sq. Footage N/A (Highrise)

Seismic Zone 2 Group Class Existing to Remain

Roof Snow Load Per Sq. Ft. \_\_\_\_\_ Dead Load Per Sq. Ft. \_\_\_\_\_

Basic Wind Speed (mph) \_\_\_\_\_ Effective Velocity Pressure Per Sq. Ft. \_\_\_\_\_

Floor Live Load Per Sq. Ft. \_\_\_\_\_

Structure has full sprinkler system? Yes X No \_\_\_\_\_ Alarm System? Yes X No \_\_\_\_\_  
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

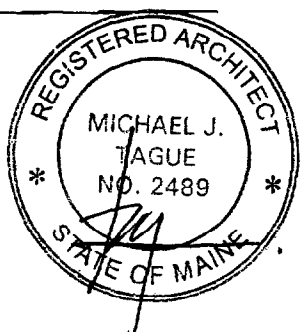
Is structure being considered unlimited area building: Yes \_\_\_\_\_ No X

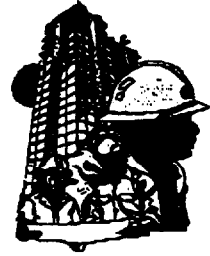
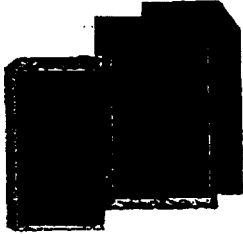
If mixed use, what subsection of 313 is being considered NO

List Occupant loading for each room or space, designed into this Project.

PSH 6/07/2K

(Designers Stamp & Signature)





**CITY OF PORTLAND  
BUILDING CODE CERTIFICATE  
389 Congress St., Rm 315  
Portland, ME 04101**

**TO:** Inspector of Buildings City of Portland, Maine  
Department of Planning & Urban Development  
Division of Housing & Community Service

**FROM:** JSA, INC.

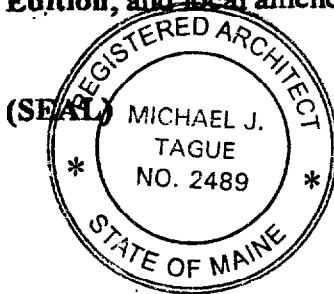
**RE:** Certificate of Design

**DATE:** DECEMBER 4, 2001

These plans and/or specifications covering construction work on:

Maine Medical Center 8th Floor Renovation

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.



Signature [Handwritten Signature]

Title Principal

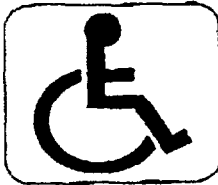
Firm JSA, INC.

Address 361 Hanover St. Portsmouth, NH

**As per Maine State Law:**

\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

PSH 6/20/2k



# City of Portland, Maine

389 Congress St., Rm 315  
Portland, ME 04101

## ACCESSIBILITY CERTIFICATE

**TO:** Inspector of Buildings City of Portland, Maine  
Department of Planning & Urban Development  
Division of Housing & Community Services

**FROM:** JSA, INC.

**RE:** Certificate of Design, HANDICAP ACCESSIBILITY

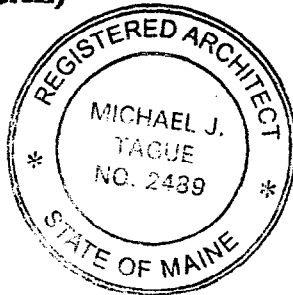
**DATE:** DECEMBER 4, 2001

These plans and/or specifications covering construction work on:

MAINE MEDICAL CENTER 8TH FLOOR RENOVATION

Have been designed and drawn up by the undersigned, a Maine registered engineer/architect according to State Regulations as adopted by the State of Maine on Handicapped Accessibility.

(SEAL)



Signature Michael J. Tague

Title PRINCIPAL

Firm JSA, INC.

Address 361 Hanover St. Portsmouth, NH

LANGFORD & LOW, INC.

General Contractors

P. O. BOX 662

PORTLAND, ME 04104

PEOPLES HERITAGE BANK  
SOUTH PORTLAND, MAINE 04106  
52-133/112-100

15950

CHECK NO.	CHECK DATE	VENDOR NO.
15950	12-3-01	

CHECK AMOUNT
\$ 1764.00

PAY  
TO THE  
ORDER OF

*Seventeen hundred and sixty four dollars and zero cents*

City of Portland

LANGFORD & LOW, INC.

*James C. Langford*  
AUTHORIZED SIGNATURE

⑈015950⑈ ⑆011201335⑆ 00⑈049⑈269⑈

**EXPIRED**

# MAINE MEDICAL CENTER

## 8th FLOR RENOVATION

### EP LAB

AT 22 BRAMHALL STREET

PORTLAND, MAINE 04102-3175

ISSUED FOR CONSTRUCTION

#### INDEX OF DRAWINGS

8TH FLOOR RENOVATION  
EP LAB

#### ARCHITECTURAL

#### MECHANICAL/ PLUMBING/ ELECTRICAL

- T.1 TITLE SHEET AND DRAWING INDEX
- A10.0 DEMOLITION FLOOR PLAN AND TEMPORARY PARTITION DETAIL
- A1.01 NEW FLOOR PLAN
- A1.02 REFLECTED CEILING PLAN
- A1.03 INTERIOR ELEVATIONS, MILLWORK DETAILS
- A1.04 PARTITION TYPES, DOOR SCHEDULE AND TYPES, MISC. DETAILS, FINISH SCHEDULE
- A1.05 SPECIFICATIONS

- E.01 LEGEND, SYMBOLS, NOTES
- E.02 PARTIAL FLOOR PLAN DEMOLITION ELECTRICAL
- E.03 PARTIAL FLOOR PLAN NEW CONDITIONS
- M.01 LEGEND, NOTES AND SCHEDULES MECHANICAL
- M.02 PARTIAL FLOOR PLAN DEMOLITION AND NEW CONDITIONS HVAC
- M.03 PARTIAL FLOOR PLAN DEMOLITION AND NEW CONDITIONS PLUMBING

MAINE MEDICAL CENTER  
PORTLAND, ME

ISSUED FOR  
CONSTRUCTION



#### STRUCTURAL

OCTOBER 26, 2001.

Scale: NO SCALE  
Project Number: 00-970.00  
Date: 10/26/2001  
Revisions:

TITLE SHEET DRAWING INDEX

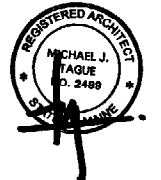
T.01



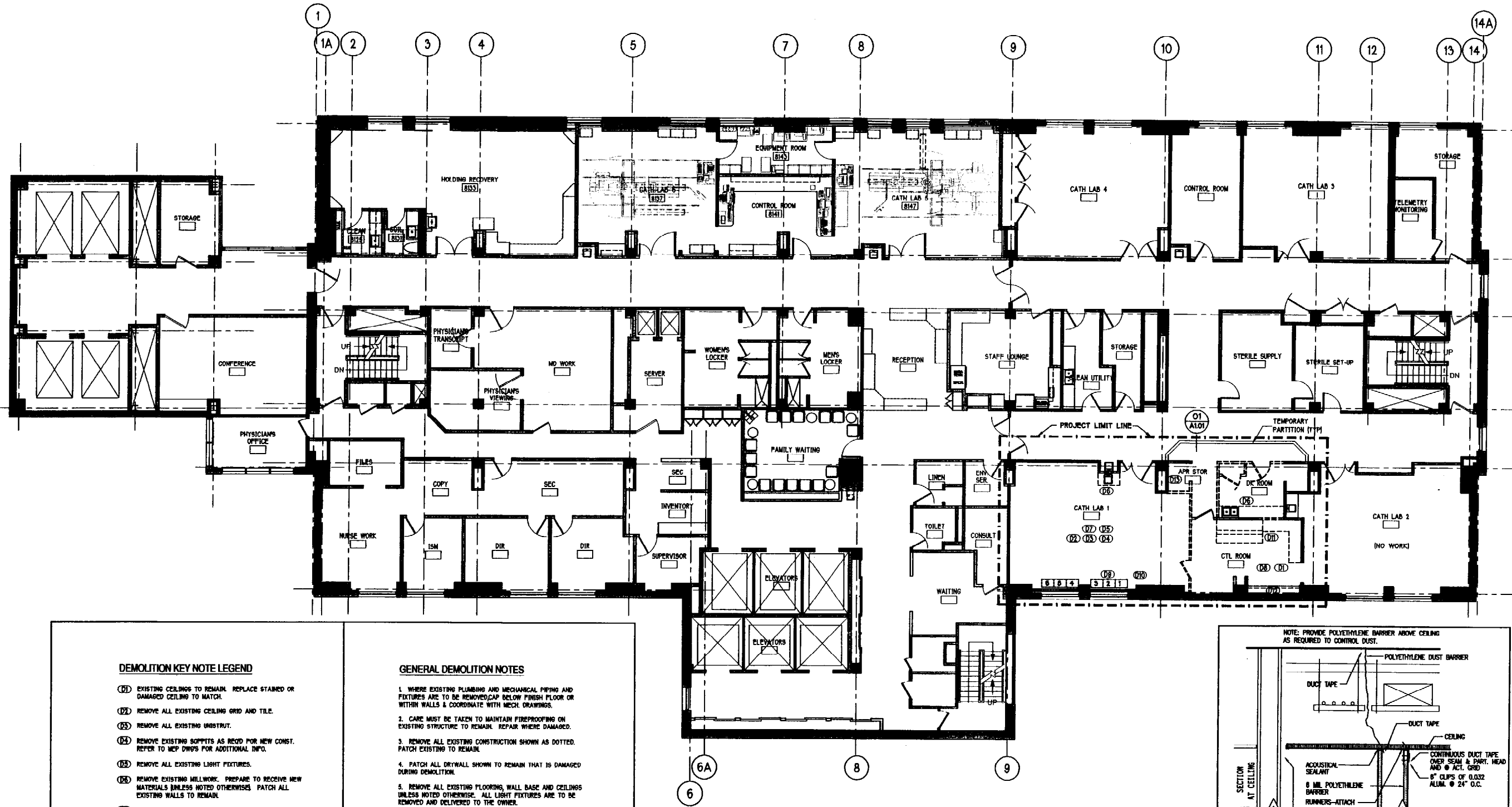
**8TH FLOOR RENOVATION  
 EP LAB**

**MAINE MEDICAL CENTER**  
 PORTLAND, ME

**ISSUED FOR  
 CONSTRUCTION**



Scale: 1/8"=1'-0"  
 Project Number: 00-970.00  
 Date: 10/26/2001  
 Revisions:



**DEMOLITION KEY NOTE LEGEND**

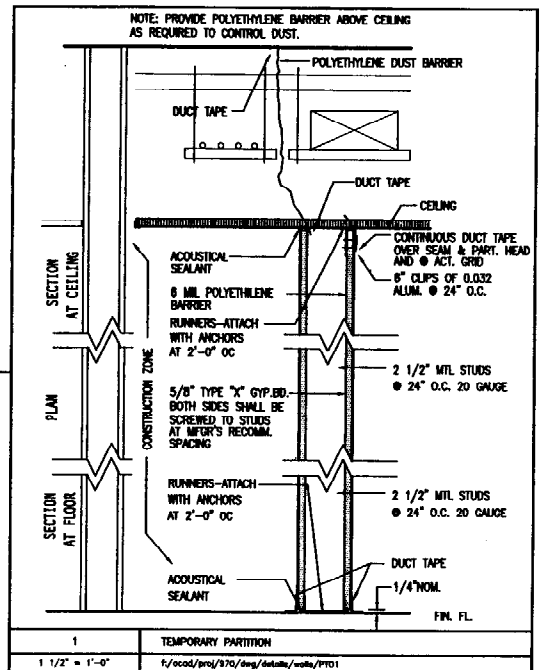
- (01) EXISTING CEILINGS TO REMAIN. REPLACE STAINED OR DAMAGED CEILING TO MATCH.
- (02) REMOVE ALL EXISTING CEILING GRID AND TILE.
- (03) REMOVE ALL EXISTING GIBSTRUT.
- (04) REMOVE EXISTING SOFFITS AS REQD FOR NEW CONST. REFER TO MEP DWGS FOR ADDITIONAL INFO.
- (05) REMOVE ALL EXISTING LIGHT FIXTURES.
- (06) REMOVE EXISTING MILLWORK. PREPARE TO RECEIVE NEW MATERIALS UNLESS NOTED OTHERWISE. PATCH ALL EXISTING WALLS TO REMAIN.
- (07) REMOVE ALL EXISTING VCT. PATCH AND PREPARE TO RECEIVE NEW VCT.
- (08) EXISTING VCT TO REMAIN REPLACE ANY DAMAGED TILE WITH NEW TO MATCH.
- (09) REMOVE EXISTING C-LOCKER L23 AND RELOCATE IN ROOM. REMOVE ALL ROLLERS AND CATHETER HOOKS BEHIND C-LOCKER L23 AND SALVAGE TO OWNER.
- (10) EXISTING GASES SHALL BE RELOCATED TO COLUMN BETWEEN EXISTING C-LOCKER ALCOVES.
- (11) REMOVE EXISTING MONITOR CONSOLE CASEWORK. COORDINATE WITH OWNER ON SALVAGING SOME OF EXISTING COUNTER TOP FOR RE-USE IF POSSIBLE. PATCH ALL EXISTING WALLS TO REMAIN.
- (12) EXISTING STORAGE CABINET AND OPEN ADJ. SHELVING TO REMAIN.
- (13) REMOVE EXISTING APRON STORAGE RACK AND RELOCATE TO NEW APRON STORAGE AREA (SEE NEW FLOOR PLAN FOR LOCATION)

**GENERAL DEMOLITION NOTES**

1. WHERE EXISTING PLUMBING AND MECHANICAL PIPING AND FIXTURES ARE TO BE REMOVED, CAP BELOW FINISH FLOOR OR WITHIN WALLS & COORDINATE WITH MECH. DRAWINGS.
2. CARE MUST BE TAKEN TO MAINTAIN FIREPROOFING ON EXISTING STRUCTURE TO REMAIN. REPAIR WHERE DAMAGED.
3. REMOVE ALL EXISTING CONSTRUCTION SHOWN AS DOTTED. PATCH EXISTING TO REMAIN.
4. PATCH ALL DRYWALL SHOWN TO REMAIN THAT IS DAMAGED DURING DEMOLITION.
5. REMOVE ALL EXISTING FLOORING, WALL BASE AND CEILINGS UNLESS NOTED OTHERWISE. ALL LIGHT FIXTURES ARE TO BE REMOVED AND DELIVERED TO THE OWNER.
6. COORDINATE WITH MECHANICAL DRAWINGS FOR REQUIRED DEMOLITION OF EXISTING MECHANICAL SYSTEMS.
7. COORDINATE WITH ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION OF EXISTING ELECTRICAL POWER, COMMUNICATIONS, DATA/FIRE PROTECTION SYSTEMS.
8. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR REQUIRED DEMOLITION OF EXISTING MEDICAL GAS SYSTEM.
9. REMOVE ALL MISCELLANEOUS WALL MOUNTED ACCESSORIES FOR POSSIBLE REUSE BY OWNER.
10. ALL FINISHES TO REMAIN SHALL BE PROTECTED.

**SYMBOL LEGEND**

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW CONSTRUCTION
- NEW LEAD LINED PARTITION



**8TH FLOOR RENOVATION  
EP LAB**

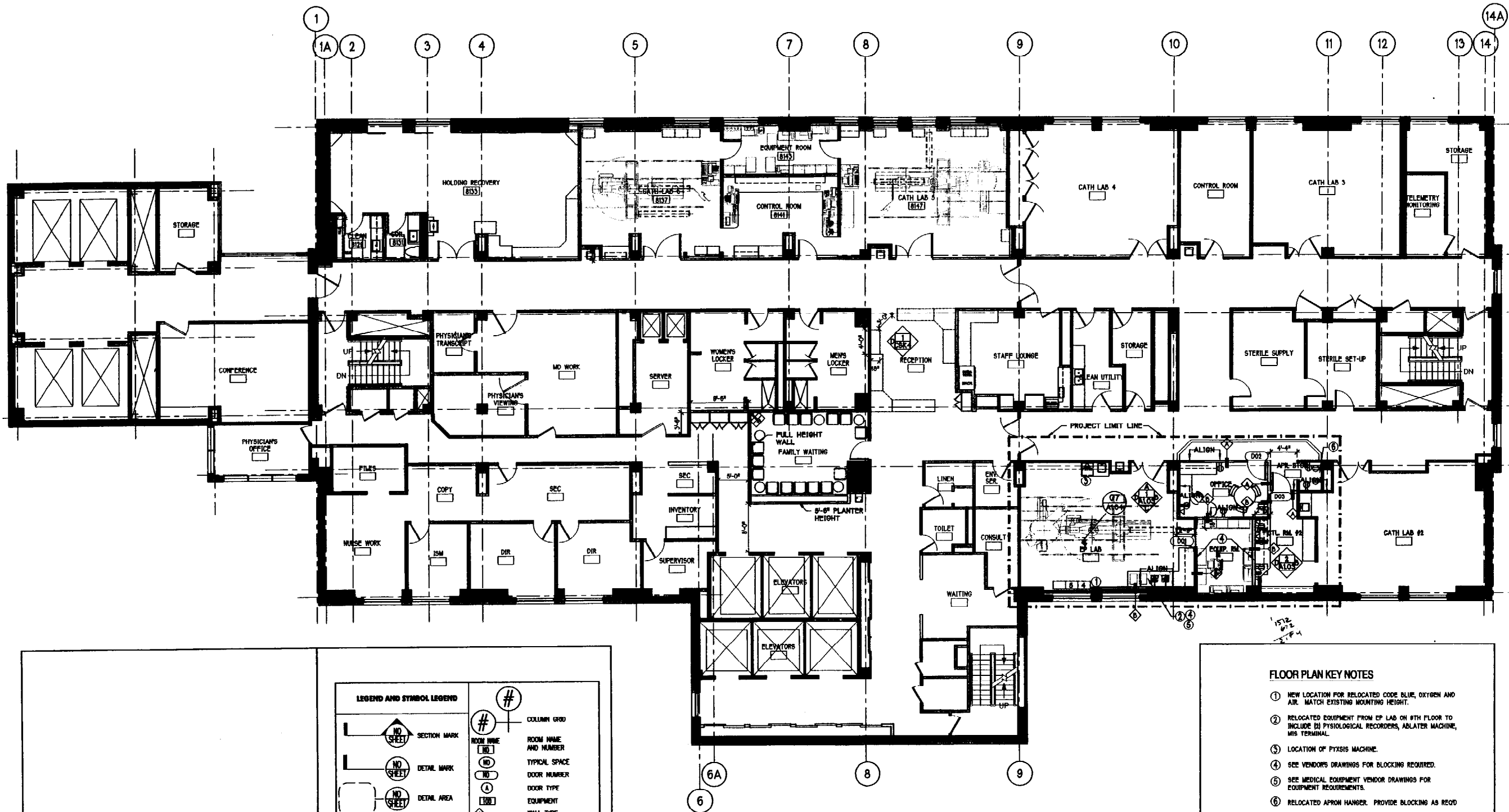
MAINE MEDICAL CENTER  
PORTLAND, ME

**ISSUED FOR  
CONSTRUCTION**



Scale: 1/8"=1'-0"  
Project Number: 00-970.00  
Date: 10/26/2001

Revisions:



LEGEND AND SYMBOL LEGEND		#	#
	SECTION MARK		ROOM NAME AND NUMBER
	DETAIL MARK		TYPICAL SPACE
	DETAIL AREA		DOOR NUMBER
	PROJECT NORTH ARROW		DOOR TYPE
	EXTERIOR ELEVATION		EQUIPMENT
	ACCESSIBLE CLEAR FLOOR AREA		WALL TYPE
	ELEVATION MARKER		PARTITION TYPE
	BREAK LINE		WINDOW TYPE
	REVISION NUMBER		INTERIOR ELEVATION
			CEILING IDENTIFICATION
			FLOOR PATTERN TYPE
			FINISH TYPE

- FLOOR PLAN KEY NOTES**
- NEW LOCATION FOR RELOCATED CODE BLUE, OXYGEN AND AIR. MATCH EXISTING MOUNTING HEIGHT.
  - RELOCATED EQUIPMENT FROM EP LAB ON 8TH FLOOR TO INCLUDE (A) PHYSIOLOGICAL RECORDERS, ABLATER MACHINE, MIS TERMINAL.
  - LOCATION OF PYXIS MACHINE.
  - SEE VENDORS DRAWINGS FOR BLOCKING REQUIRED.
  - SEE MEDICAL EQUIPMENT VENDOR DRAWINGS FOR EQUIPMENT REQUIREMENTS.
  - RELOCATED APRON HANGER. PROVIDE BLOCKING AS REQ'D

**SYMBOL LEGEND**

	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	NEW CONSTRUCTION
	NEW LEAD LINED PARTITION

NEILL AND GUNTER, INC.  
 MEP/ STRUCTURAL  
 PORTLAND, ME

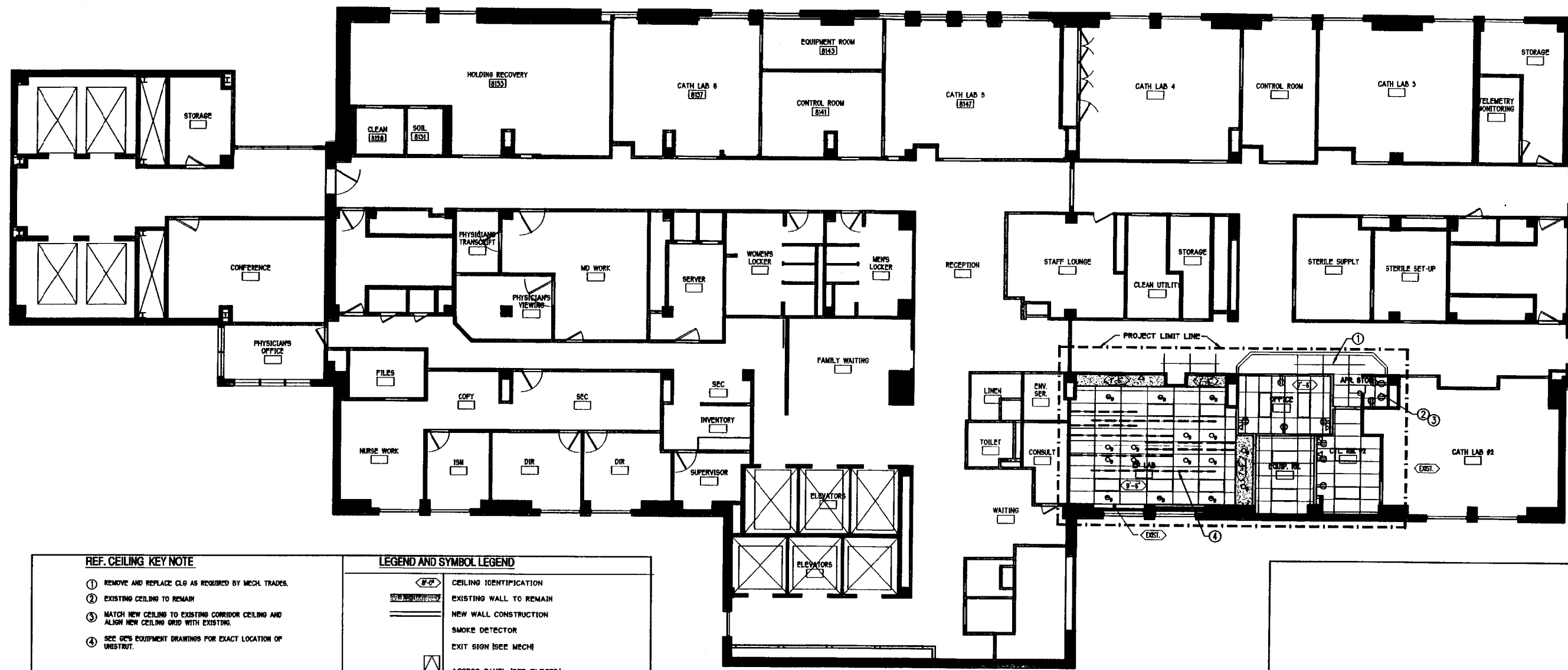
**8TH FLOOR RENOVATION  
 EP LAB**

**MAINE MEDICAL CENTER**  
 PORTLAND, ME

**ISSUED FOR  
 CONSTRUCTION**



Scale: 1/8"=1'-0"  
 Project Number: 00-970.00  
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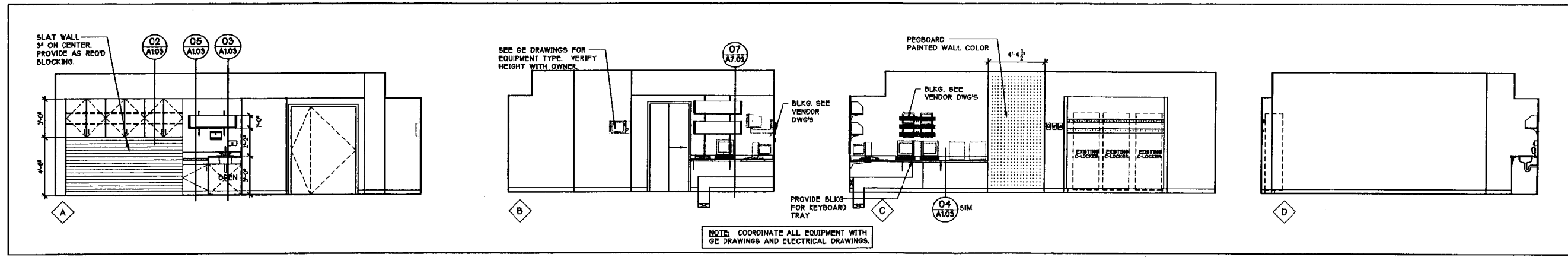


REF. CEILING KEY NOTE	LEGEND AND SYMBOL LEGEND
① REMOVE AND REPLACE CLG AS REQUIRED BY MECH. TRADES.	CEILING IDENTIFICATION
② EXISTING CEILING TO REMAIN	EXISTING WALL TO REMAIN
③ MATCH NEW CEILING TO EXISTING CORRIDOR CEILING AND ALIGN NEW CEILING GRID WITH EXISTING.	NEW WALL CONSTRUCTION
④ SEE GCS EQUIPMENT DRAWINGS FOR EXACT LOCATION OF UNISTRUT.	SMOKE DETECTOR
	EXIT SIGN (SEE MECH)
	ACCESS PANEL (SEE ELECTR)
	DIFFUSER SUPPLY
	DIFFUSER RETURN
	SPRINKLER HEAD (BY SPRINKLER CONTRACTOR)
	2' X 4' LAY IN FLUOR. LIGHT FIXTURE
	RECESSED FLUOR. DOWN LIGHT
	ACT LAY IN CEILING
	GYP. BD. SOFFIT

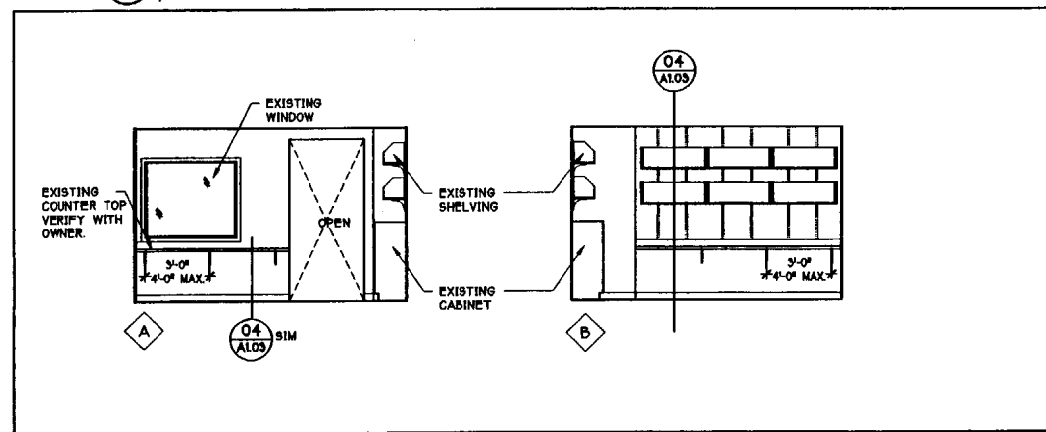
**REFLECTED CEILING PLAN**



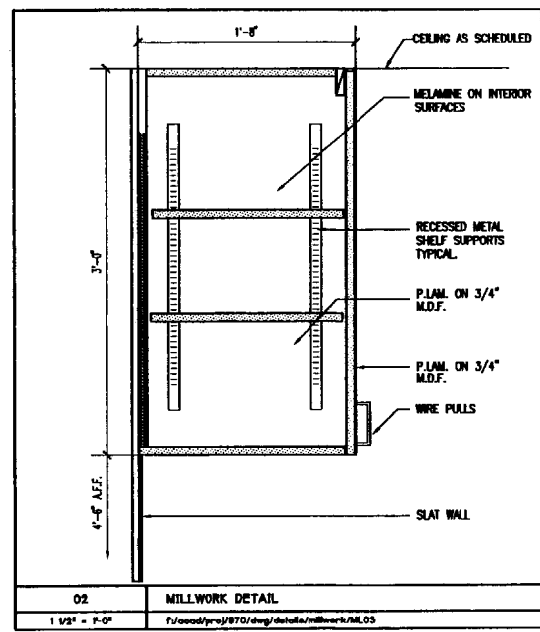
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 Project Number: 00-970.00  
 Date: 10/26/2001  
 Revisions:



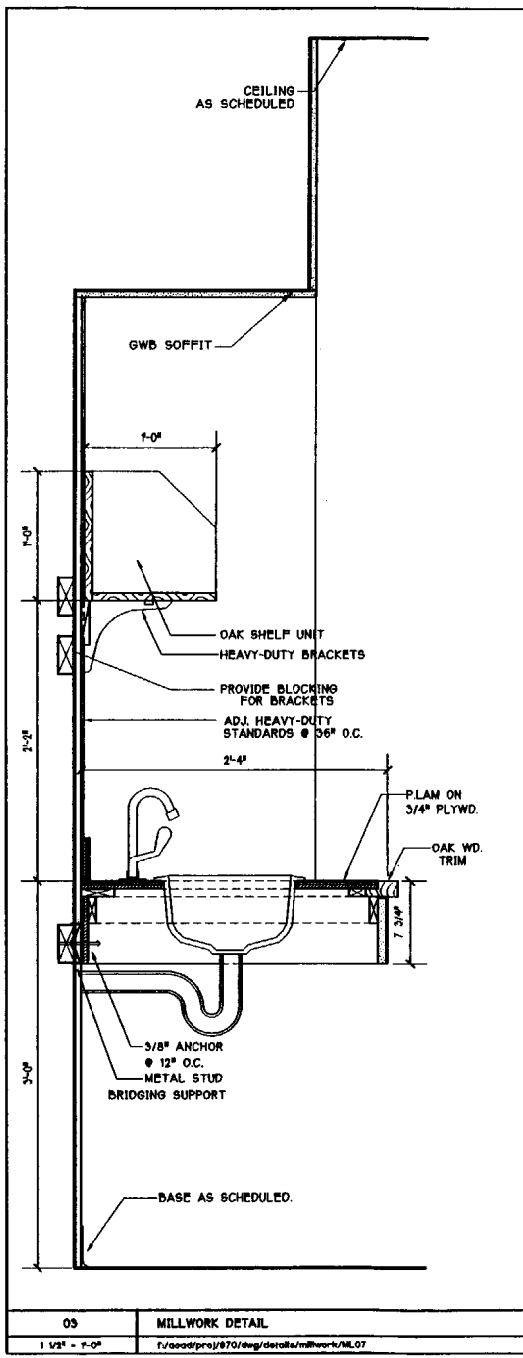
**1 EP LAB ELEVATIONS**  
 1/4" = 1'-0"



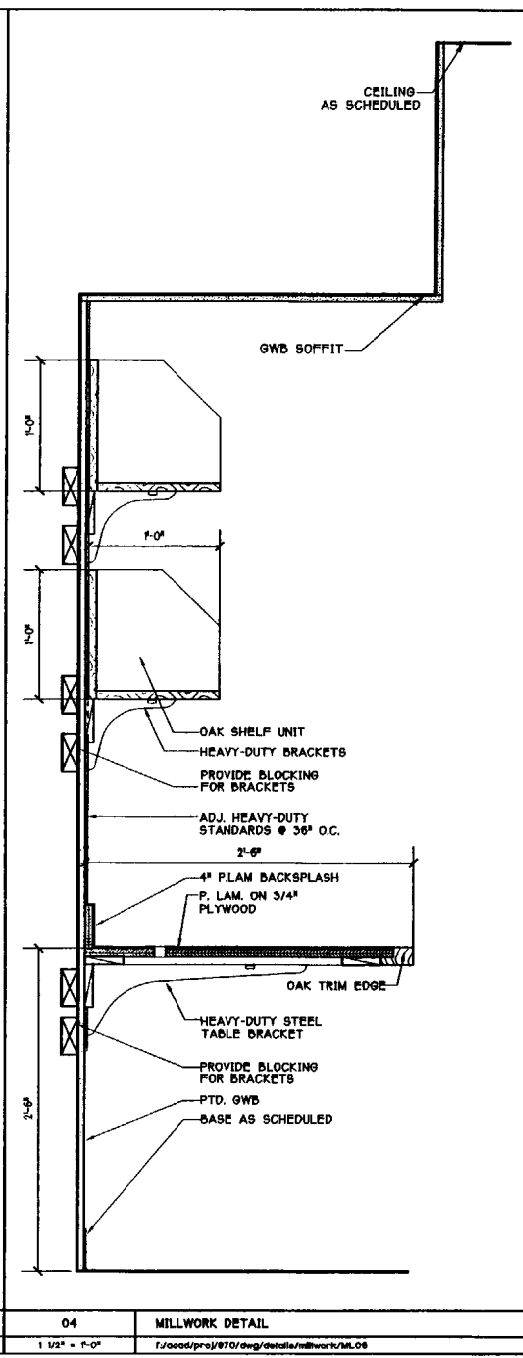
**2 CONTROL ROOM ELEVATIONS**  
 1/4" = 1'-0"



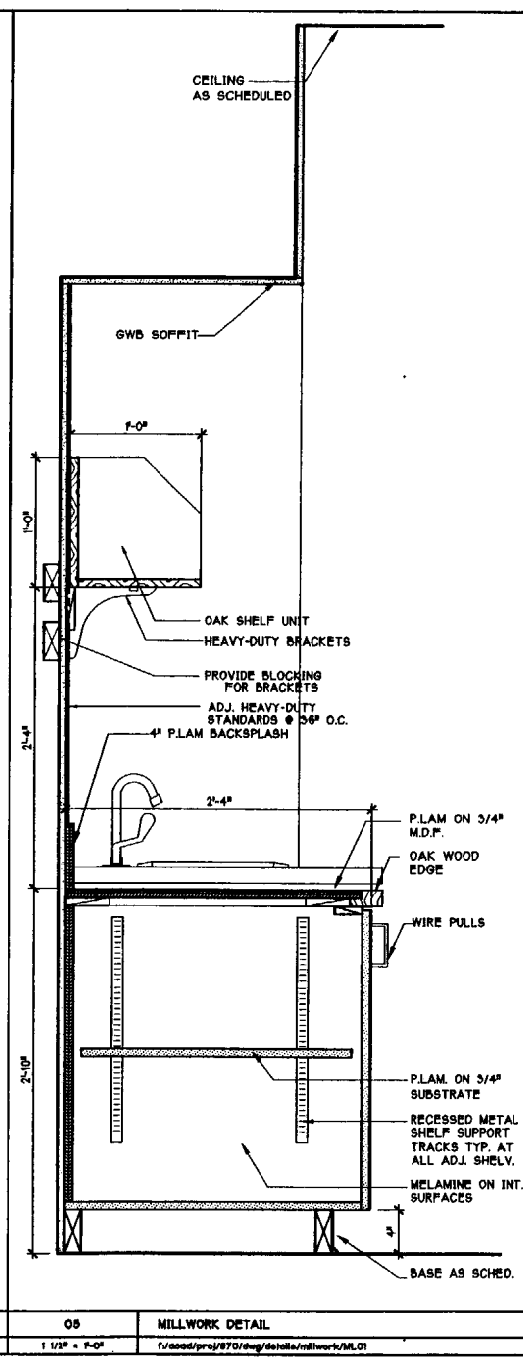
**02 MILLWORK DETAIL**  
 1 1/2" = 1'-0" T:\acad\proj\870\dwg\details\millwork\ML02



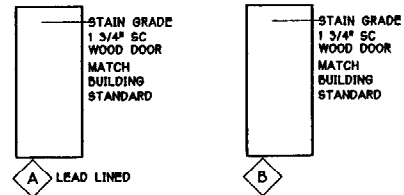
**05 MILLWORK DETAIL**  
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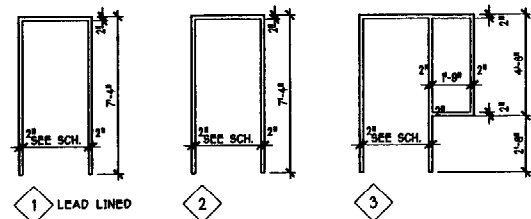
**04 MILLWORK DETAIL**  
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**05 MILLWORK DETAIL**  
 1 1/2" = 1'-0" T:\acad\proj\870\dwg\details\millwork\ML05



1 DOOR TYPES  
1/4" = 1'-0"

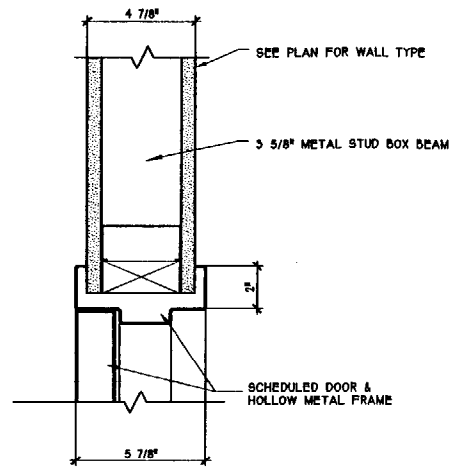


2 FRAME TYPES  
1/4" = 1'-0"

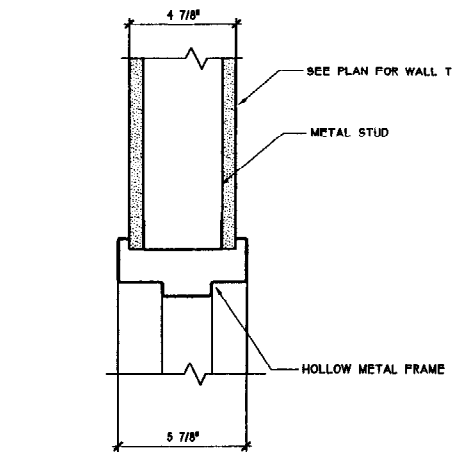
NOTES:  
1. ALL HARDWARE SHALL MATCH MAINE MEDICAL CENTER STANDARDS.  
KEY LOCKSETS COMPATIBLE WITH BUILDING MASTER KEY.

DOOR SCHEDULE																
DO NO.	LOCATION	DOOR					FRAME					FIRE RATED	HARDWARE	REMARKS		
		TYPE	WIDTH	HEIGHT	THICK	MATER	FINISH	TYPE	JAMB	HEAD	SILL				MATER	FINISH
01	EQUIPMENT	A	3'-0"	7'-0"	1 3/4"	WD	STAIN	1	08/AL04	08/AL04	-	HM	PT	-	1	
02	OFFICE	B	3'-0"	7'-0"	1 3/4"	WD	STAIN	3	08/AL04	08/AL04	-	HM	PT	-	2	
03	CONTROL ROOM	B	3'-0"	7'-0"	1 3/4"	WD	STAIN	2	08/AL04	08/AL04	-	HM	PT	-	3	

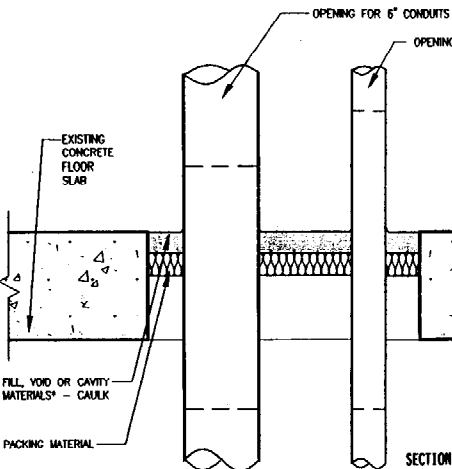
ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				NORTH	SOUTH	EAST	WEST	MATER.	FINISH	
--	EP LAB	VCT	RUBBER	PT	PT	PT	PT	ACT		
--	EQUIPMENT	VCT	RUBBER	PT	PT	PT	PT	ACT		
--	OFFICE	CARPET	RUBBER	PT	PT	PT	PT	ACT		
--	APR STOR	VCT	RUBBER	PT	PT	PT	PT	ACT		
--	CONTROL ROOM	VCT	RUBBER	PT	PT	PT	PT	ACT		



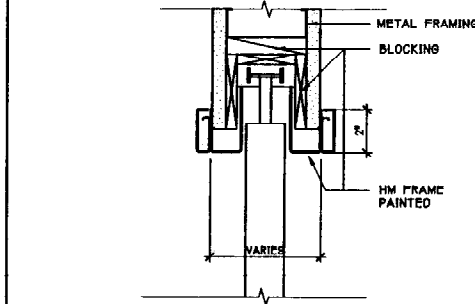
08 DOOR JAMB  
3/8" = 1'-0"  
T:\cadd\proj\870\dwg\details\door\DOH01



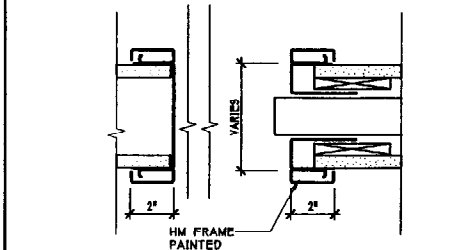
06 DOOR HEAD  
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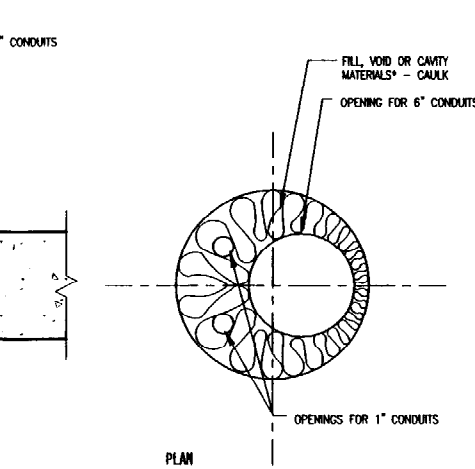
07 FIRE STOPPING DETAIL  
3/8" = 1'-0"  
T:\cadd\proj\870\dwg\details\plan\PL103



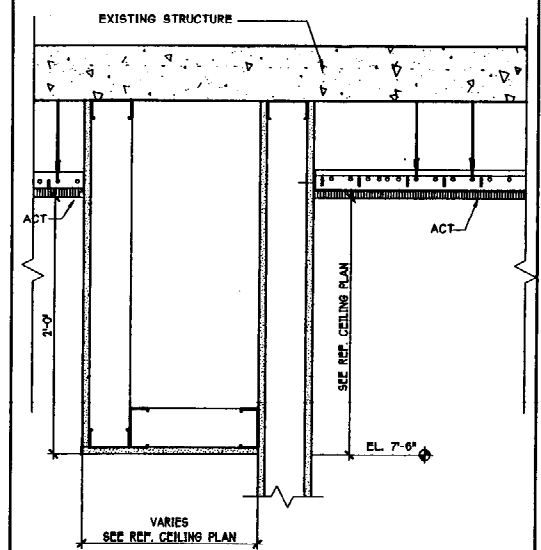
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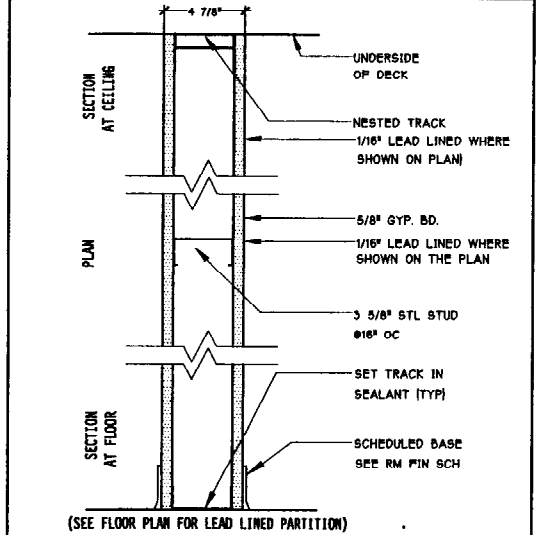
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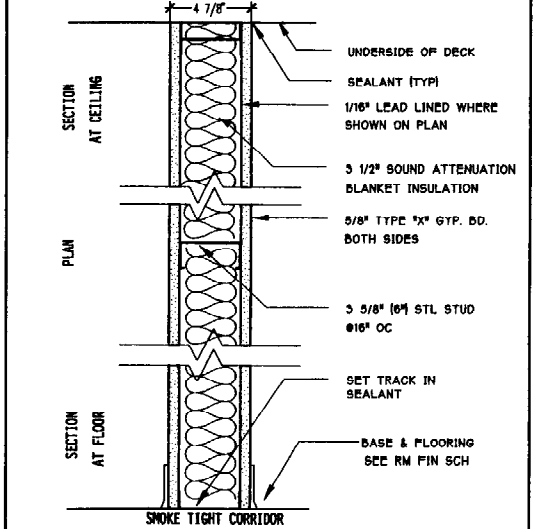
07 FIRE STOPPING DETAIL  
3/8" = 1'-0"  
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03 CEILING DETAIL  
1 1/2" = 1'-0"  
T:\cadd\proj\870\dwg\details\ceiling\CEING06



02 PARTITION TYPE B  
1 1/2" = 1'-0"  
T:\cadd\proj\870\dwg\details\walls\PT08



01 PARTITION TYPE A  
1 1/2" = 1'-0"  
T:\cadd\proj\870\dwg\details\walls\PT07

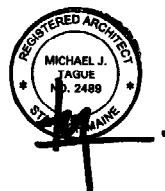
**JSA Inc**  
ARCHITECTURE • PLANNING • INTERIOR DESIGN  
361 Hanover Street, Portsmouth, NH 03801  
Voice: 603.436.2551 Fax: 603.436.6973  
www.jsainc.com

**NEILL AND GUNTER, INC.**  
MEP/ STRUCTURAL  
PORTLAND, ME

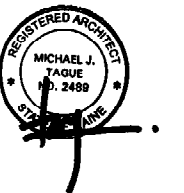
**8TH FLOOR RENOVATION  
EP LAB**

**MAINE MEDICAL CENTER  
PORTLAND, ME**

**ISSUED FOR  
CONSTRUCTION**



Scale: AS NOTED  
Project Number: 00-970.00  
Date: 10/26/2001  
Revisions:



**PAINTING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, scaffolding and equipment required to complete all work shown on the drawings and specified herein.
- B. Paint all exposed surfaces except where the natural finish of the material is obviously intended and specifically noted on a surface not to be painted. Where items or surfaces are not specifically mentioned, paint these the same as adjacent similar materials or areas. Also include:
  1. Painting of exposed piping, conduit, ductwork, insulated piping, equipment, stands, hangers and other mechanical or electrical work. See Division 15 and 16 for color requirements.
  2. Painting of all existing metal doors and door frames, where shown.
  3. Painting of existing metal, wood, etc., on exterior to match new work, where shown.
- C. Do not paint any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sensing devices, motor and fan shafts, unless otherwise indicated.
- D. Do not paint any code required labels, such as Underwriters Laboratories and Factory Mutual, or any equipment.
- E. Include priming of all walls behind casework.
- F. Include priming and painting of all walls to receive vinyl wall covering.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Paints and Varnishes: Sherwin-Williams, as listed, type and quality scheduled.

**2.2 PAINT SCHEDULE**

**A. Interior Ferrous Metals:**

- First Coat: Latex enamel undercoat
- Second Coat: Latex semi-gloss
- Third Coat: Latex semi-gloss

**B. Drywall, Plaster:**

- First Coat: Latex enamel undercoat
- Second Coat: Latex eggshell
- Third Coat: Latex eggshell

**C. Doors:**

- 1 coat paste wood filler.
- 1 coat oilyl penetrating stain.
- 2 coats stain varnish.

**D. Exterior Ferrous Metals:**

- First Coat: Zinc Chromate Primer
- Second Coat: Exterior Alkyd
- Third Coat: Exterior Alkyd

**ACOUSTICAL TREATMENT**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to install acoustical treatment indicated in the Room Finish Schedule.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Acoustical Tile Type 1 (ACT 1): Hospital standard 24" x 48". Class A flame spread rating.
- B. Acoustical Tile Type 2 (ACT 2): Hospital standard 24" x 24". Class A flame spread rating.

**RESILIENT FLOORING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to install resilient flooring, as indicated in the Room Finish Schedule and on the drawings. Material shall be installed in strict accordance with manufacturer's application instructions.
- B. Resilient material and installation shall be completed by the Owner. The contractor shall coordinate the installation of resilient flooring with the work.

**2.2 MATERIALS**

- A. Resilient Flooring: Mannington, Armstrong, Azrock or other approved.
  1. Vinyl Composition Tile: Straight grained pattern, 1/8" x 12" x 12" size. Flooring shall have radiant flux Class 1 flame spread.
  3. Base: 1/8" thick, 4" high top set vinyl cover with job formed internal and external corners.

**MISCELLANEOUS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, scaffolding and equipment required to install specified accessories. Provide blocking for all accessories.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Cubical Curtain Track: Retacoce existing where possible. If additional track is needed, match existing. Provide 2 roller carriers per 12" of length. Anchor to concealed fire retardant wood blocking.
- B. W Track: Retacoce existing where possible. If additional track is needed, match existing. Provide telescoping carrier. Anchor to concealed fire retardant wood blocking.
- C. Corner Guards: Match hospital standard, stainless steel.
- D. Apron Hooks: Provide Quaker City Medical Specities, QC 2020 in 24" and 36" lengths as indicated on drawings. Provide continuous fire retardant wood blocking behind apron hooks.
- E. Accessor Iss: At each sink provide 1 ea. Hospital standard surface mounted towel dispenser and 1 ea. Hospital standard soap dispenser.
- F. Hook Strips: Provide Bradley #8944 4 hook strips where shown on drawings.
- G. Blinds: Provide and install Levolor, 1" aluminum mini-blinds in control room windows. Color as selected by architect.
- H. Wall Protection, Sotted Holding: Construction Specities, 1/8" Acroyrn laminated directly to wall.

**METAL FRAMES AND DOORS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all materials necessary to complete the hollow metal work indicated and as specified herein. See drawings and schedule for type, size, design and location of metal doors, metal frames, matching panels, trim, etc. Provide metal UL labels on all metal frames.
  1. Provide metal UL labels on doors and frames where scheduled. Provide 250 degree temperature rise label of all 18" label doors.
  2. Provide brozed channel frame of all lead lined doors.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Doors and frames of Conn. Steelcraft, Armetek, Master or other approved.
- B. Frames: Cold rolled steel frame sections arranged as shown on the drawings and of gages indicated below.
  1. Interior Frames: 16 Gauge, minimum.

**GLASS AND GLAZING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to complete the installation of the glass work.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- B. Hardware: Hordas Brothers Co., 1/4" thickness, polished Misco welded square pattern.
  1. Glazing Compound: DMP 33 glazing compound.
- C. Tempered Glass: 1/4" thickness, quall y 43 polished plate or float glass.

**DRYWALL**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to complete the installation of the drywall work.
- B. All fire rated assemblies shall be constructed in strict accordance with the tested assembly.
- C. All materials shall be furnished by the same manufacturer.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. All materials shall be delivered to the job in original-unopened containers or bundles, and stored so as to prevent damage.

**B. Framing Materials:**

- 1. Metal Studs: USC 3 5/8" (6" where shown) 25 gauge electro-polymerized, roll formed, metal studs with floor and top runner tracks. 20 gauge studs where shown on drawings and where lead lined drywall is indicated.
- 3. Furring Channels: U.S. Gypsum Co. 7/8" metal furring channels.

**C. Gypsum Drywall Board Materials:**

- 1. Exposed Drywall: USG SHEETROCK, tapered edge or SW tapered edge, 5/8" thick; gypsum wallboard meeting ASTM C 37-06.
  - a. Provide Type "X" gypsum wallboard as required to meet requirements.
  - b. Where drywall is the substrate for ceramic tile, provide sheetrock W/R moisture resistant wallboard meeting ASTM C 430.

**D. Acoustical Sealing**

- At sound insulated partitions, apply caulking bead on both sides of floor runner, wall studs or of similar materials. Set wallboard into caulking bead. At partition intersections, seal face layer with caulking bead prior to application of joint treatment. Seal perimeter, back and sides of all electrical boxes.

**PART 3 - INSTALLATION**

**3.1 FABRICATION**

- A. Install in strict accordance with manufacturer's installation instructions. Provide temporary protection until room is delivered to Owner for use.

**HARDWARE**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all materials necessary to complete the hardware indicated and as specified herein.
  1. Provide metal UL labels on metal frames.
  2. Provide delay action closers on all doors over 36" in width.
  3. Provide 2 pair of bolts on all doors wider than 36"

**PART 2 - PRODUCTS**

- A. Hardware shall match existing hospital hardware for manufacturer, grade, finish and type of hardware. Provide silencers on all metal frames.

**B. HARDWARE GROUPS**

- I. Group 1
  - 1 set Top, bottom and intermediate offset pivots
  - 1 ea Automatic flushbolts
  - 1 ea Closers with delay arm
  - 1 ea Lever handle lockset
  - 1 ea Coordinator
  - 1 ea Jetrol (steel, surface mounted)
  - 1 ea Kickplate
  - 1 ea Map plates

**II. Group 2**

- 1 1/2 Pair Butts BB
- 1 ea Closer
- 1 ea Lever handle lockset
- 1 ea wall stop
- 1 ea Kickplate
- 1 ea Map plate

**III. Group 3**

- 1 1/2 Pair Butts BB
- 1 ea Latch set
- 1 ea Wall stop
- 1 ea Kickplate
- 1 ea Map plate

**DEMOLITION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Include all labor, materials and equipment necessary to complete work as drawn and specified.
- B. Where walls are shown to be demolished, remove entire wall from floor to underside of deck above.

**WOOD DOORS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all wood doors indicated and as specified herein. See drawings and schedule for type, size and location. Provide metal UL labels on all metal doors.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Doors shall be Agema, Eggers, Palm, Weyerhaeuser or other approved.
- B. Face veneer shall be premium grade: match hospital species and silica.
- C. Solid Core Doors: Glued block core of low density wood, 2 1/2" maximum width, random lengths with joints well staggered. Matching edge bands not less than 5/8" thick. Face panels: 2 or 3 ply having combined thickness of 1/2" with face veneer not less than 1/32" thick. Type I glass.
- D. UL Labeled Wood Fire Doors: Mineral board core with matching hardwood edge strips minimum 5/8" thick. Inc. lude UL label as scheduled. All labeled wood doors shall be pre-finished and shall require no field finishing or machinery. Provide 250 degree temperature rise label of 18" label doors.

**FIRESTOPPING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish and install proprietary fire stopping materials at all penetrations through fire walls and floor/ceiling assemblies.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Materials shall be manufactured by 3M Fire Protection Products or other approved manufacturer. Penetrations shall be protected using UL tested and approved assemblies for the type of construction and penetration required. The same manufacturer shall provide all materials.

**CARPENTRY & MILLWORK**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Include all labor, materials and equipment necessary to complete work as drawn and specified.

**1.2 SUBMITTALS**

- A. Submit shop drawings indicating size and location of each piece of millwork, elevations, details of construction and other pertinent data.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. All lumber built into partitions shall be fire retardant treated.
- B. All millwork shall comply with ANSI custom Grade construction standards. Finish overlay construction.
- C. Millwork is to be constructed of 3/4" plywood core. All exposed laminates is to be OSB. Include channels for plumbing and electrical devices. Include cable grommets where cables pass through tops.
- D. Cabinet interior color shall match exterior color of cabinet. Vertical grade laminate may be used.
- E. Hardware:
  - Match existing hospital standard
- F. Edge Banding: Exposed edges of all doors, countertops, back splashes, drawers and false panels shall be finished with 3 mm PVC. Color of PVC banding shall match color of adjacent laminates.
- G. Drawer boxes: 1/2" Birch plywood with clear finish and .10mm PVC edge banding on top to match adjacent laminates. 1/4" Birch plywood base dished into four sides.
- H. Wood rail, millwork trim and face construction: RFI sown clear red oak.

**LEAD PROTECTION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all labor, materials, equipment and methods necessary to complete the installation of the lead glass & glazing, doors, and drywall.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Lead Lined Doors: Solid core wood doors as manufactured by Bar-Roy Products or other approved. Doors shall be constructed using a single layer of (1/16") sheet lead in the center. Extend sheet lead to the edges of the door. Solid wood cores on either side of the sheet lead shall be held together utilizing poured lead dowels 1/2" from all edges and 8" on center. Hardwood molding shall be provided matching the face veneer of the door. Side edge strips shall be 3/4" thick before trimming and shall match face veneer.
- B. Lead Lined Drywall
  1. 2" wide strip of sheet lead shall be provided with each sheet and shall be applied to studs prior to the installation of the wallboard so as to provide a minimum of 1" overlap with adjoining sheet. Shims shall be utilized at intermediate studs so as to provide a smooth surface.
  2. Wallboard shall be fastened at a minimum of 8" on center of the edges for each sheet and a minimum 12" on center of the intermediate studs.
    - a) Exposed walls: install minimum 1" diameter lead disk over each to stener. Float out wall to cover lead disks.
    - b) Concealed walls: Where lead lined wall is concealed by a furring attach fasteners through a separate piece of lead sheeting. Bend across length of over top of furrer and spray with red paint.
  3. Care shall be taken that a continuous overlap of all adjoining sheets is obtained. Provide miscellaneous sheet lead for electrical boxes, pipes, conduits, etc., as required. Extend lead into metal frames and top lead sheet inside frame.

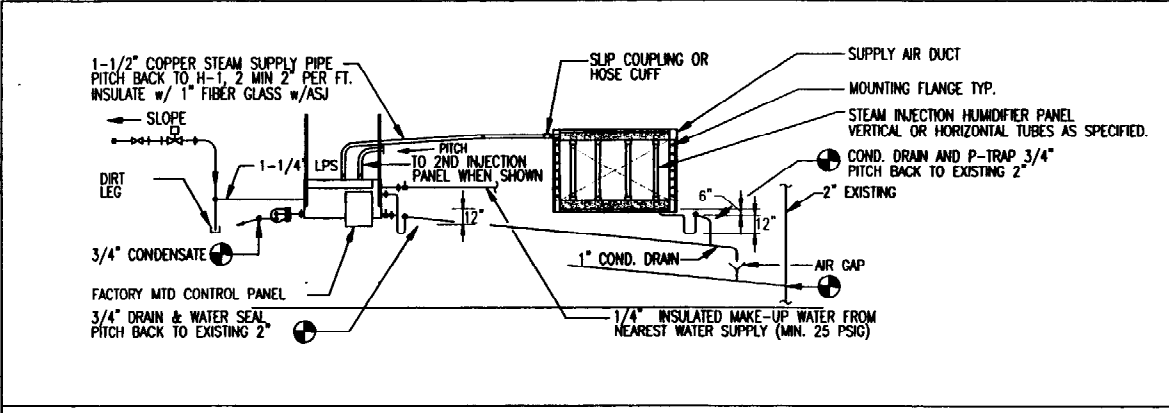
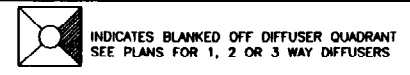
**GENERAL NOTES:**

- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXIST./NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ARCHITECT.
- THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE HOSPITAL/ARCHITECT FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS.
- CONTRACTOR IS TO MAINTAIN HVAC AND PLUMBING SERVICE TO ROOMS OUTSIDE THE PROJECT SCOPE OF WORK AND PHASING SCHEDULE. IF INTERRUPTION OF SERVICE IS REQUIRED COORDINATE SHUTDOWN WITH HOSPITAL. NOTIFY THE HOSPITAL A MINIMUM OF 48 HOURS PRIOR TO SHUT-DOWN.
- CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. RESTORE DAMAGED AREAS THAT ARE BEYOND THE SCOPE OF THIS CONTRACT TO THEIR ORIGINAL CONDITION.
- WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.
- COORDINATE REMOVALS AND RELOCATION'S INCLUDING SELECTIVE CUTTING AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL.
- MOST PARTITIONS ARE FULL HEIGHT AND REQUIRE DUCT PENETRATIONS TO BE SEALED, SEE ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. DUCTWORK SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WILL REQUIRE LOCATING IN THE FIELD TO MINIMIZE CONFLICT WITH PARTITIONS.
- COORDINATE THE LOCATIONS OF ALL WALL MOUNTED TEMPERATURE SENSORS WITH OWNERS FINAL EQUIPMENT/FURNITURE LAYOUT.
- PROVIDE SEISMIC RESTRAINTS PER SPECIFICATION 15601.
- AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A CLEAN AND NEAT MANNER.
- INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD PRACTICE NORMAL TO THE TRADE. INSTALLATION SHALL INCLUDE PROVISIONS FOR ACCESS TO NORMAL MAINTENANCE ITEMS SUCH AS BELTS, BEARINGS, FILTERS AND MOTORS. PROVIDE ADEQUATE STRUCTURAL SUPPORTS AND SECURE MOUNTING METHODS WITH PROVISIONS FOR VIBRATION ISOLATION AND EXPANSION WHERE REQUIRED.
- PROVIDE VOLUME DAMPERS DOWN STREAM OF VAV BOXES AT EACH BRANCH FROM MAIN DUCTWORK AND DUCT RUNNOUTS. PROVIDE OPPOSED BLADE DAMPERS AT EACH NECK TO AN INDIVIDUAL REGISTER OR DIFFUSER IN SUPPLY, RETURN AND EXHAUST DUCTS IRRESPECTIVE OF WHETHER OR NOT A DAMPER IS INDICATED ON THE PLANS.
- PIPING AND DUCTWORK SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- PROVIDE DUCTWORK WITH OFFSETS AND TRANSITIONS AS REQUIRED TO FIT UNDER STRUCTURAL STEEL OR OTHER OBSTRUCTIONS. FLAT OVAL OR ROUND SIZES MAY BE USED INTERCHANGEABLY BY THE CONTRACTOR. MAINTAIN DUCT CROSS SECTIONAL AREA.
- HVAC, DUCTWORK, PIPING AND PLUMBING COORDINATION DRAWINGS ARE TO BE PREPARED AND SUBMITTED FOR THIS PROJECT. SEE SPECIFICATION 15010. VALVES SHALL NOT BE LOCATED IN ABOVE CEILING LOCATIONS.

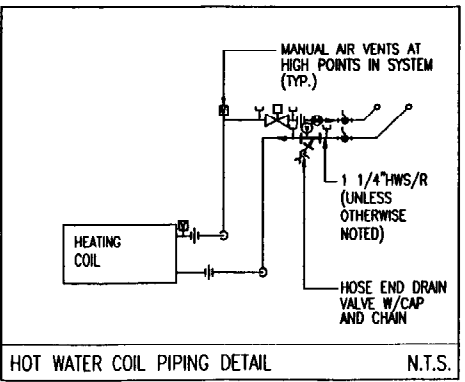
**A DIFFUSER/REGISTER/GRILLE SCHEDULE**

ITEM	SERVICE	TYPE	CFM	FACE SIZE	MOUNTING	NECK	MANUFACTURER	MODEL	NOTES
A	SUPPLY	DIFFUSER	SEE PLAN	48x24	LAY-IN	42x18	METAL*AIRE	5000-6V	①
B	SUPPLY	DIFFUSER	SEE PLAN	24x24	LAY-IN	18x18	METAL*AIRE	5500	①③
C	SUPPLY	DIFFUSER	SEE PLAN	24x24	LAY-IN	18x18	METAL*AIRE	5500	①④
D	SUPPLY	BAR GRILLE	SEE PLAN	92x6	SURFACE	92x6	METAL*AIRE	2015D	⑤
E	RETURN	DIFFUSER	SEE PLAN	48x24	LAY-IN	42x18	METAL*AIRE	CC15D TB	②
F	RETURN	DIFFUSER	SEE PLAN	24x24	LAY-IN	18x18	METAL*AIRE	CC15D TB	②③
G	RETURN	DIFFUSER	SEE PLAN	24x24	LAY-IN	18x18	METAL*AIRE	CC15D TB	②④
H	RETURN	BAR GRILLE	SEE PLAN	48x6	SURFACE	92x6	METAL*AIRE	2015D	⑤

- NOTES**
- PROVIDE WITH MODEL D50BDE OBD MOUNTED IN NECK
  - PROVIDE WITH MODEL OBDR OBD MOUNTED IN NECK
  - PROVIDE WITH 18x18 TO 8" ADAPTER
  - PROVIDE WITH 18x18 TO 10" ADAPTER
  - PROVIDE WITH 15' DEFLECTION AND OPPOSED BLADE DAMPER



- NOTES:**
- DO NOT INSULATE CONDENSATE AND DRAIN PIPING. SLOPE ALL DRAIN PIPING A MIN. OF 1/8" PER FT. UNLESS NOTED OTHERWISE.
  - INSTALL IN STRICT ACCORDANCE WITH THE MFG INSTRUCTIONS. MAINTAIN ACCESS TO ALL EQUIP.
  - SUBMIT SHOP DWGS INDICATING INSTALLATION DETAILS.
  - EQUIPMENT SUPPLIER TO CONFIRM STEAM SUPPLY PIPE SIZE.
  - 90° ELBOWS ARE NOT ALLOWED ON STEAM SUPPLY PIPE. USE 2-45° ELBOWS 1 FOOT APART.
  - HUMIDIFIER HI-LIMIT, AIRFLOW SENSOR AND HUMIDISTAT SHALL BE FURNISHED BY HONEYWELL, INC.



**EQUIPMENT**

**AIR HANDLING UNIT AHU-1**

AIRFLOW	2125 CFM
ESP	.5 IN WG
MOTOR HP	1.5 HP
TOTAL CAPACITY	59,073 BTU/HR
SENSIBLE CAPACITY	50,952 BTU/HR
ENTERING AIR TEMP	75F/50%RH
ELECTRIC HEATER	11.5 kW
HUMIDIFIER CAPACITY	8 LB/HR
FULL LOAD AMPS (FLA)	19.8
WIRE SIZING AMPS (WSA)	24.8
OVERCURRENT PROTECTION (OPD)	25
VOLTS/PHASE/HERTZ	460/3/60

PROVIDE WITH FILTER CLOG & SMOKE DETECTORS AND CONDENSATE PUMP. PROVIDE MOISTURE DETECTION SYSTEM TO ALARM AND SHUTDOWN UNIT IF MOISTURE IS DETECTED IN THE SECONDARY DRAIN PAN. CONTRACTOR TO PROVIDE SECONDARY DRAIN PAN WITH CONDENSATE PUMP

**LIEBERT MM060E-AHED**

**AIR COOLED CONDENSER ACCU-1 (ON ROOF)**

FAN AIRFLOW	4200 CFM
FAN MOTOR	1.5 HP
FULL LOAD AMPS (FLA)	11.4
WIRE SIZING AMPS (WSA)	13.9
OVERCURRENT PROTECTION (OPD)	20
VOLTS/PHASE/HERTZ	460/3/60

PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION TO -30F

**LIEBERT PFC067A-YLD**

**HUMIDIFIER (LOCATED IN EQUIPMENT PENTHOUSE)**

AIRFLOW	4,000 CFM
ENTERING AIR	55F/48%RH
LEAVING AIR	55F/70%RH
STEAM CAPACITY	44.9 LBS/HR
DUCT HEIGHT	18 IN
DUCT WIDTH	32 IN
HEATING STEAM PRESSURE	8 PSI
STEAM CONDENSATE LOAD	44.9 LB/HR
ABSORPTION DISTANCE:	10'

PROVIDE CONTROL VALVE & OPERATOR, F&T STEAM TRAP AND LOW VOLTAGE ELECTRONIC CONTROLS HUMIDIFIER FOR USE IN VERTICAL DUCTS HUMIDIFIER SUPPLY HEADER TO BE LOCATED INSIDE DUCT

**DRI-STEEM TYPE STS-25C WITH RAPID-SORB HORIZONTAL DISPERSION TUBES**

**HOT WATER REHEAT COIL RHC-1**

CAPACITY	5,820 BTU/HR
ENTERING AIR TEMP	55F
LEAVING AIR TEMP	81.8F
AIRFLOW	200 CFM
FINNED LENGTH	10 IN
NOMINAL HEIGHT	6 IN
ROWS	1
FINS PER FOOT	110
AIR PRESSURE DROP	.08 IN H2O
WATER FLOW RATE	0.58 GPM
ENTERING WATER TEMP	180F
LEAVING WATER TEMP	160F
WATER PRESSURE DROP	0.03 FT H2O

TRANE "1" COIL

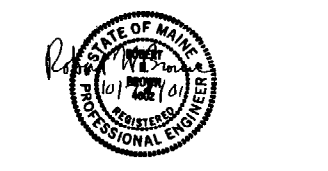
LEGEND	
SYMBOL	DESCRIPTION
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
CHS	CHILLED WATER SUPPLY PIPING
CHR	CHILLED WATER RETURN PIPING
LPS	LOW PRESSURE STEAM
RHS	REHEAT HOT WATER SUPPLY
RHR	REHEAT HOT WATER RETURN
BS	BELOW SLAB (TYPE "K" COPPER)
MD	MOTORIZED DAMPER
AS	TANGENTIAL AIR SEPARATOR
FD	FLOOR DRAIN
AD	DUCT ACCESS DOOR
AP	ACCESS PANEL
FTR	FINITUBE RADIATION
FC	FLEXIBLE CONNECTION
IR	INDIRECT WASTE
RD	ROOF DRAIN
RWL	RAINWATER LEADER
YTR	VENT THRU ROOF
FPBH	FREEZEPROOF HOSE BIBB
VB	VACUUM BREAKER
FSD	COMBINATION FIRE SMOKE DAMPER
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
RV	RELIEF VALVE
SD	SMOKE DAMPER
FD	FIRE DAMPER
TCP	TEMPERATURE CONTROL PANEL
OED	OPEN ENDED DUCT
⊗	CIRCUIT BALANCE VALVE
⊙	AUTOMATIC FLOW CONTROL VALVE
⊕	CHECK VALVE
⊖	BALL VALVE
⊘	OS AND Y GATE VALVE
⊙	BUTTERFLY VALVE
⊙	THERMOMETER W/IMMERSION WELL
⊙	PRESSURE GAUGE W/PETCOCK
⊙	GRILLE, REGISTER OR DIFFUSER TAG
⊙	ELECTRONIC TEMPERATURE SENSOR
⊙	ELECTRONIC TEMPERATURE SENSOR W/TAMPERPROOF GUARD
⊙	AUTOMATIC AIR VENT
⊙	MANUAL AIR VENT
⊙	STRAINER W/BLOWDOWN, BRASS CAP AND CHAIN
⊙	3/4" BALL VALVE W/HOSE END, BRASS CAP, CHAIN
⊙	WATER HAMMER ARRESTOR
→	DIRECTION OF FLOW
—	VENT PIPING
—	UNION
—	PRESSURE REGULATING VALVE
—	CONTROL VALVE
—	3-WAY CONTROL VALVE (MIXING PATTERN)
—	MANUAL VOLUME DAMPER
—	COMBINATION FIRE SMOKE DAMPER W/PNEUMATIC OPERATOR
—	FIRE DAMPER
—	COLD WATER PIPING
—	HOT WATER PIPING
—	FLOW SWITCH
—	ELECTRONIC TEMPERATURE SENSOR
—	PIPE ANCHOR
—	PIPE GUIDE
—	EXPANSION JOINT
—	GAS PIPING
N. C.	NORMALLY-CLOSED
N. O.	NORMALLY-OPENED
⊙	DUCT STATIC PRESSURE SENSOR
⊙	DUCT MOUNTED SMOKE DETECTOR, MOUNTED BY HVAC CONTRACTOR SUPPLIED AND WIRED BY ELECTRICAL CONTRACTOR
⊙	POINT OF CONNECTION TO EXISTING
⊙	VARIABLE AIR VOLUME BOX NO. 6, SERVING HVAC-2, W/ HEATING COIL
⊙	DUCT WITH 1" THICK NON-FIBROUS ACOUSTICAL LINING ( DUCT DIM. FOR NET FREE AREA)
⊙	OUTDOOR DUCTWORK - DOUBLE WALL WITH 2" THICK INSULATION ( DUCT DIM. FOR NET FREE AREA)



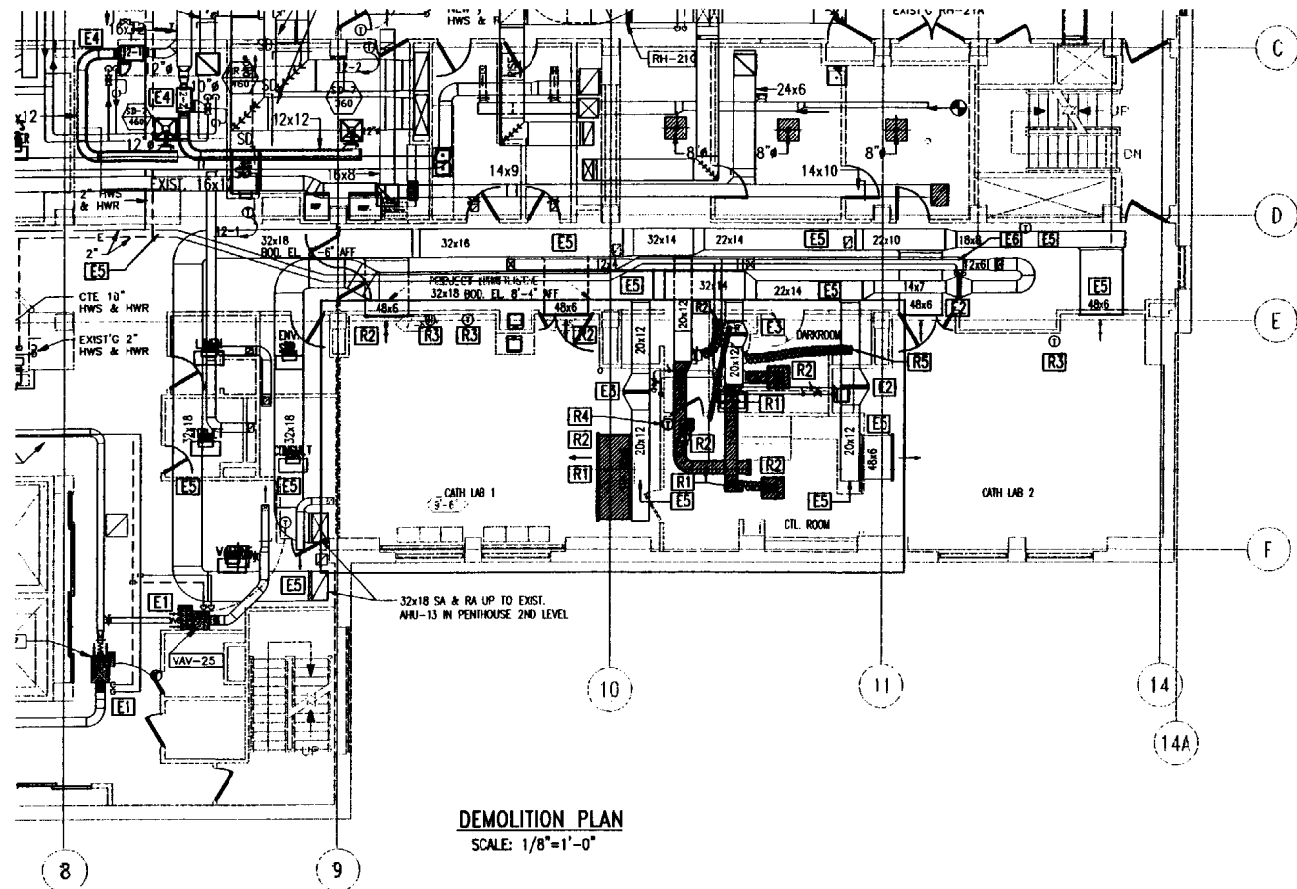
8TH FLOOR RENOVATION  
EP LAB

MAINE MEDICAL CENTER  
PORTLAND, ME

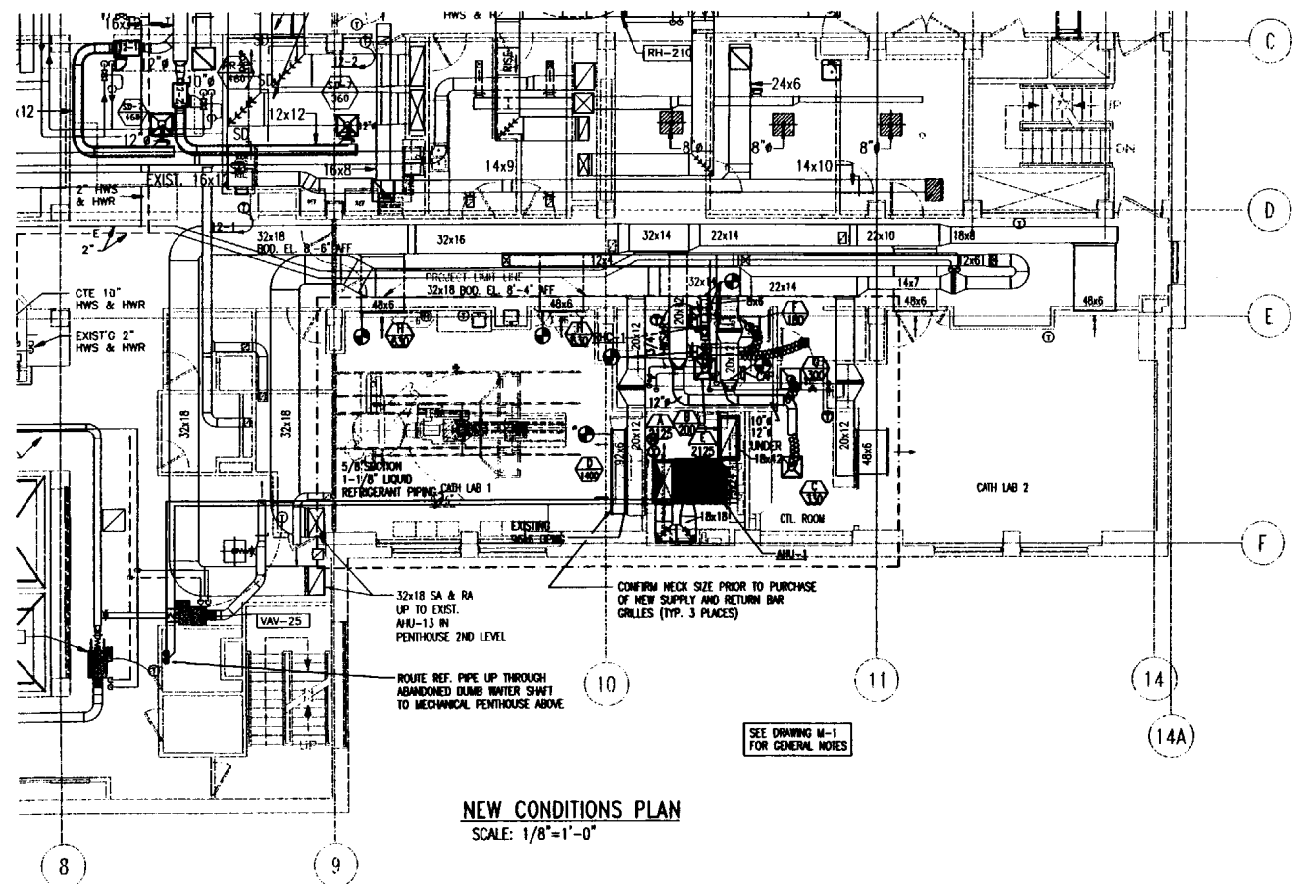
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Scale: AS NOTED  
Project Number: 00-970.00  
Date: 10/26/2001  
Revisions:



**DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**NEW CONDITIONS PLAN**  
SCALE: 1/8"=1'-0"

**HVAC DEMOLITION GENERAL NOTES:**

1. FIELD VERIFY EXISTING EQUIPMENT, DUCTWORK AND PIPING PRIOR TO REMOVAL OR REUSE. CONFIRM WITH MMC THAT ALL EQUIPMENT, DUCTWORK AND PIPING DESIGNATED TO BE REMOVED IS NO LONGER IN SERVICE PRIOR TO ITS REMOVAL.
2. EXISTING EQUIPMENT, DUCTWORK AND PIPING TO REMAIN IN SERVICE SHALL BE INSPECTED AND RESTORED TO GOOD SERVICEABLE CONDITION. REPAIR OR REPLACE AS REQUIRED.
3. FILL ALL NEW OR EXISTING ABANDONED FLOOR SLAB PENETRATIONS WITH GROUT, FULL THICKNESS OF SLAB. MAINTAIN 2 HR FIRE RATING. ALL EXISTING CONCRETE FLOORS AND CHASES ARE 2 HOUR FIRE RATED.
4. FILL AND PATCH ALL OPENINGS IN WALLS WHERE CONDUITS, PIPES, DUCTS ETC. ARE OR HAVE BEEN REMOVED. MAINTAIN ALL FIRE RATINGS.
5. ALL UNUSED (ABANDONED) DUCTWORK, PIPING AND EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED AND CAPPED.
6. ALL EXISTING PIPING, DUCTWORK AND EQUIPMENT NOT SHOWN ON DWGS. SHALL REMAIN WITH NO CHANGE UNLESS NOTED OTHERWISE.

**HVAC DEMOLITION LEGEND:**

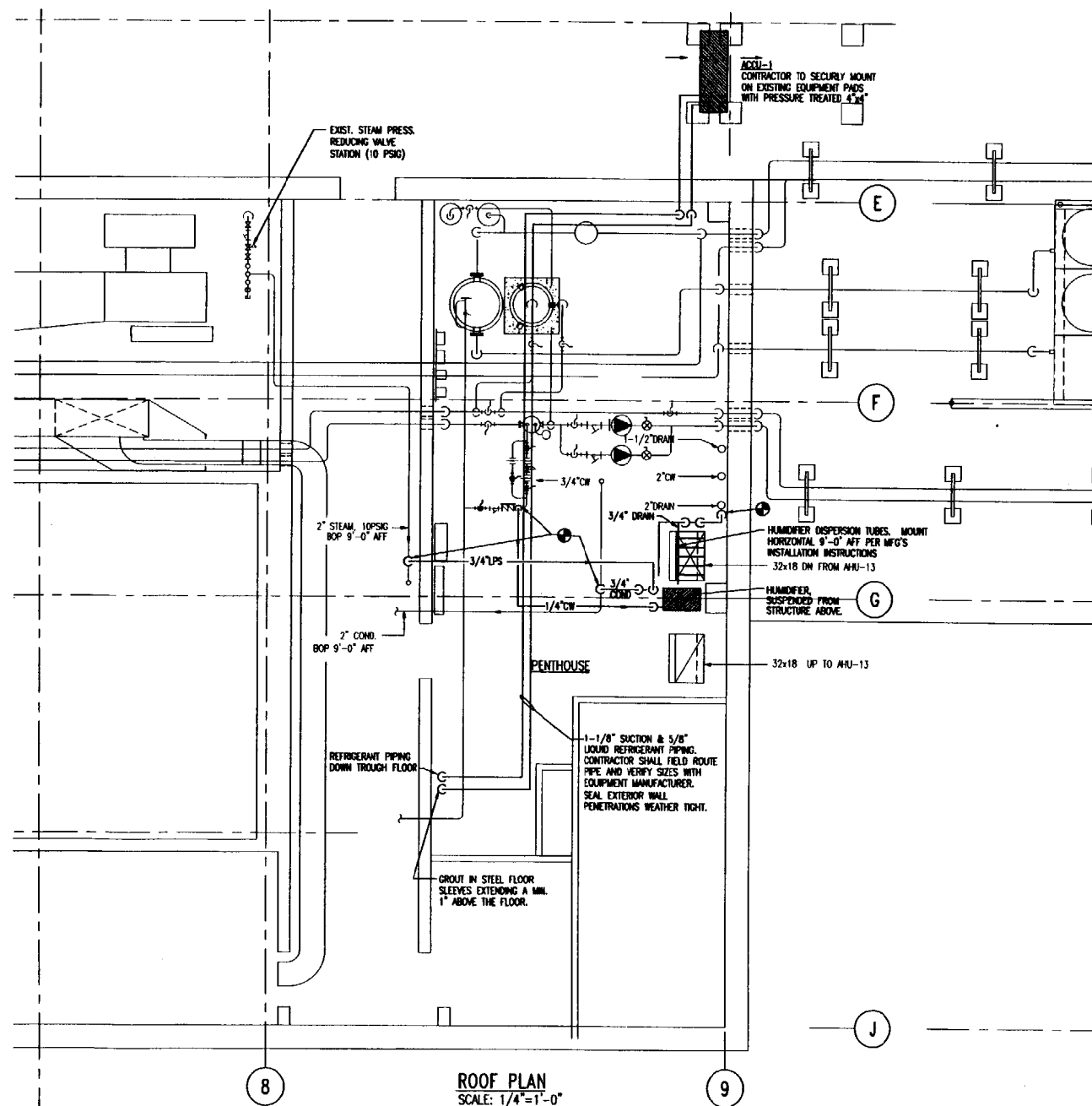
- DUCT, PIPING OR EQUIPMENT TO BE REMOVED OR RELOCATED
- DUCT, PIPING OR EQUIPMENT TO REMAIN

**HVAC DEMOLITION/REMOVAL & RELOCATION NOTES:**

- R1** REMOVE EXISTING SUPPLY, RETURN OR EXHAUST DUCTS AS INDICATED. CAP AT ACTIVE DUCTS WHERE APPLICABLE.
- R2** REMOVE EXISTING CEILING OR WALL SUPPLY, RETURN OR EXHAUST REGISTER/DIFFUSER AND ASSOCIATED FLEXIBLE DUCTWORK. CAP AT ACTIVE DUCTS.
- R3** NOT USED.
- R4** RELOCATE EXISTING THERMOSTAT/SENSOR AND ALL ASSOCIATED CONTROLS. EXTEND PNEUMATIC PIPING AS REQUIRED.
- R5** RELOCATE EXISTING SUPPLY DIFFUSER OR RETURN/EXHAUST REGISTER AND ASSOCIATED FLEXIBLE DUCTWORK AND BRANCH CONNECTION. SEE NEW CONDITION HVAC DRAWING AND ARCHITECTURAL REFLECTED CEILING PLAN FOR NEW LOCATIONS.

**HVAC EXISTING CONDITIONS NOTES:**

- E1** EXISTING FAN POWERED VARIABLE AIR VOLUME BOX AND ASSOCIATED PIPING AND WALL MOUNTED TEMPERATURE SENSOR TO REMAIN.
- E2** EXISTING HOT WATER REHEAT COIL AND ASSOCIATED PIPING AND WALL MOUNTED TEMPERATURE SENSOR TO REMAIN.
- E3** EXISTING HOT WATER REHEAT COIL AND ASSOCIATED PIPING TO REMAIN.
- E4** EXISTING VARIABLE AIR VOLUME BOX TO REMAIN AND ASSOCIATED HOT WATER REHEAT COIL, PIPING AND WALL MOUNTED TEMPERATURE SENSOR TO REMAIN.
- E5** EXISTING SUPPLY, RETURN OR EXHAUST DUCTWORK TO REMAIN.
- E6** HOT WATER SUPPLY AND RETURN PIPING TO REMAIN.



**ROOF PLAN**  
SCALE: 1/4"=1'-0"

PARTIAL FLOOR PLAN-DEMOLITION AND NEW CONDITIONS-HVAC  
NGI CAD 24874M001

8TH FLOOR RENOVATION  
EP LAB

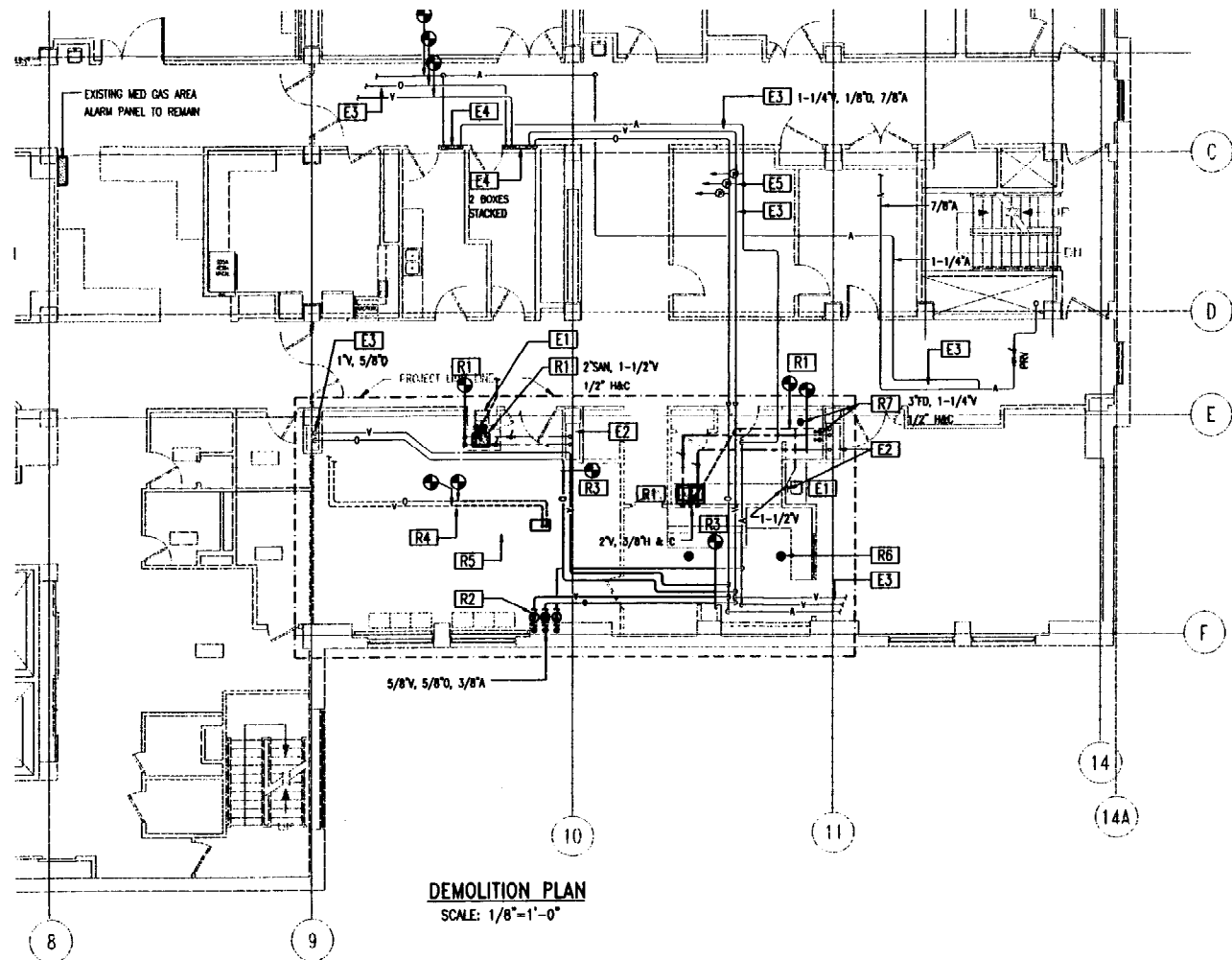
MAINE MEDICAL CENTER  
PORTLAND, ME

ISSUED FOR  
CONSTRUCTION

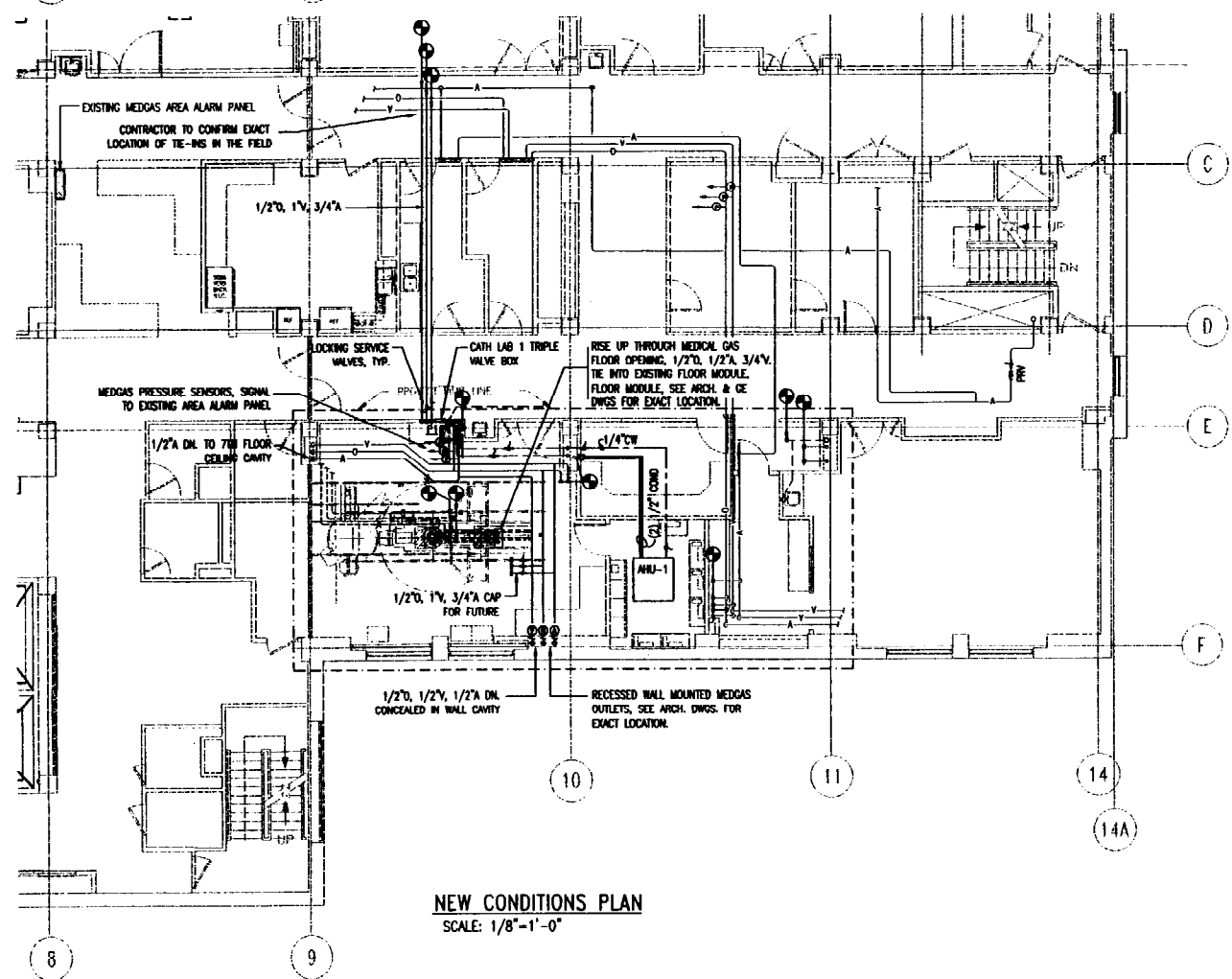


Scale: AS NOTED  
Project Number: 00-970.00  
Date: 10/26/2001  
Revisions:





DEMOLITION PLAN  
SCALE: 1/8"-1'-0"



NEW CONDITIONS PLAN  
SCALE: 1/8"-1'-0"

**DEMOLITION GENERAL NOTES:**

1. THE DRAWINGS ARE DIAGNOSTIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXIST/NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ARCHITECT.
2. THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE CONTRACTOR'S PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE HOSPITAL/ARCHITECT FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK.
3. CONTRACTOR IS TO MAINTAIN HVAC AND PLUMBING SERVICE TO ROOMS OUTSIDE THE PROJECT SCOPE OF WORK AND PHASING SCHEDULE. IF INTERRUPTION OF SERVICE IS REQUIRED COORDINATE SHUTDOWN WITH HOSPITAL. NOTIFY THE HOSPITAL A MINIMUM OF 48 HOURS PRIOR TO SHUT-DOWN.
4. COORDINATE REMOVALS AND RELOCATIONS INCLUDING SELECTIVE CUTTING AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL.
5. WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.
6. CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. RESTORE DAMAGED AREAS THAT ARE BEYOND THE SCOPE OF THIS CONTRACT TO THEIR ORIGINAL CONDITION.
7. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A CLEAN AND NEAT MANNER.

**PLUMBING DEMOLITION LEGEND**

- POINT OF CONNECTION TO EXISTING
- EXISTING PLUMBING FIXTURE TO BE REMOVED
- EXISTING PLUMBING FIXTURE TO REMAIN
- EXISTING PLUMBING VENT PIPING TO BE REMOVED
- EXISTING PLUMBING HOT WATER PIPING TO BE REMOVED
- EXISTING PLUMBING COLD WATER PIPING TO BE REMOVED
- EXISTING PLUMBING SANITARY PIPING TO BE REMOVED
- EXISTING MEDICAL GAS PIPING TO BE REMOVED
- EXISTING MEDICAL GAS PIPING TO REMAIN
- ⓪ EXISTING MEDICAL VACUUM OUTLET TO BE REMOVED
- ⓪ EXISTING MEDICAL OXYGEN OUTLET TO BE REMOVED
- EXISTING SPRINKLER PENDANT TO BE RELOCATED

**PLUMBING DEMOLITION GENERAL NOTES:**

1. FIELD VERIFY EXISTING EQUIPMENT AND PIPING PRIOR TO REMOVAL OR REUSE. CONFIRM WITH MMC THAT ALL EQUIPMENT AND PIPING DESIGNATED TO BE REMOVED IS NO LONGER IN SERVICE PRIOR TO ITS REMOVAL.
2. EXISTING EQUIPMENT AND PIPING TO REMAIN IN SERVICE SHALL BE INSPECTED AND RESTORED TO GOOD SERVICEABLE CONDITION. REPAIR OR REPLACE AS REQUIRED.
3. INFILL ALL NEW OR EXISTING ABANDONED FLOOR SLAB PENETRATIONS WITH GROUT, FULL THICKNESS OF SLAB. MAINTAIN 2 HR FIRE RATING. ALL EXISTING CONCRETE FLOORS AND CHASES ARE 2 HOUR FIRE RATED.
4. FILL AND PATCH ALL OPENINGS IN WALLS WHERE CONDUITS, PIPES, DUCTS ETC. ARE OR HAVE BEEN REMOVED. MAINTAIN ALL FIRE RATINGS.
5. ALL UNUSED (ABANDONED), PIPING AND EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED AND CAPPED.
6. ALL EXISTING PIPING AND EQUIPMENT NOT SHOWN ON THE DWGS. SHALL REMAIN WITH NO CHANGE UNLESS NOTED OTHERWISE.
7. TE-IN POINT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON EXISTING CONDITIONS.

**PLUMBING DEMOLITION/REMOVAL NOTES:**

- [R1] DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. REMOVE AND CAP/PLUG INACTIVE WASTE, VENT, HOT OR COLD WATER PIPING BACK TO NEAREST CONCEALED JOINT BEHIND FINISHED SURFACES OR AS INDICATED.
- [R2] REMOVE EXISTING MEDICAL GAS OUTLETS AND BRANCH PIPING BACK TO MAIN, OR AS INDICATED, AND CAP. VERIFY SIZE, QUANTITY AND LOCATION IN FIELD.
- [R3] REMOVE EXISTING MEDICAL GAS PIPING BACK TO TE-IN POINT.
- [R4] REMOVE EXISTING BELOW FLOOR MEDICAL GAS PIPING BACK TO TE-IN POINTS. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF TE-IN POINTS IN THE FIELD BASED ON EXISTING CONDITIONS, AND LOCATION OF NEW MEDICAL GAS FLOOR OPENING. NEW MEDICAL GAS FLOOR OPENING WILL BE LOCATED ADJACENT TO THE NEW OE CATH LAB TABLE BASE. REFER TO GE MEDICAL SYSTEMS, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- [R5] REMOVE EXISTING MEDICAL GAS OUTLETS MOUNTED ON UNDER TABLE FLOOR MODULE.
- [R6] MODIFY EXISTING WET PIPE SPRINKLER SYSTEM TO ACCOMMODATE RENOVATIONS. VERIFY SIZE QUANTITY AND LOCATION IN FIELD. SPRINKLER SYSTEMS SHALL BE IN FULL COMPLIANCE WITH NFPA 13, SEE SPECIFICATION 15300. CENTER SPRINKLER HEADS ON CEILING TILES IN ROOMS WHERE THE SUSPENDED CEILING HAS BEEN MODIFIED. SEE ARCHITECTURAL REFLECTED CEILING PLAN.
- [R7] REMOVE EXISTING 1/2" HOT AND COLD WATER RISERS AND 3" FLOOR DRAIN.

**PLUMBING EXISTING CONDITIONS NOTES:**

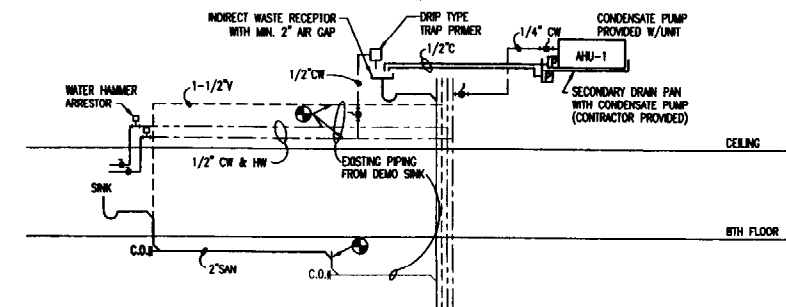
- [E1] EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO REMAIN.
- [E2] EXISTING PLUMBING SERVICES IN WALL/CHASE TO REMAIN.
- [E3] EXISTING MEDICAL GAS PIPING TO REMAIN.
- [E4] EXISTING MEDICAL GAS VALVE BOX TO REMAIN. RE-LABEL EACH VALVE BOX. SEE NEW CONDITIONS DRAWINGS.
- [E5] EXISTING MEDICAL GAS PRESSURE SENSORS TO REMAIN.

**PLUMBING GENERAL NOTES**

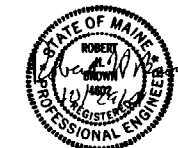
1. THE DRAWINGS ARE DIAGNOSTIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXIST/NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ARCHITECT.
2. PLUMBING RISERS SHALL BE RUN CONCEALED WITHIN WALL OR CHASES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. COORDINATE FINAL LOCATIONS OF MEDICAL GAS OUTLETS AND VALVE BOXES WITH ARCHITECT.

**EQUIPMENT**

SINK P1:	COUNTER SINK-SINGLE
CONNECTION - HW:	1/2"
CONNECTION - CW:	1/2"
CONNECTION - SANITARY:	2"
CONNECTION - VENT:	1 1/2"
NOTES:	COUNTERTOP, MANUAL FAUCET, SS, W/OFFSET TRAP, ADA



PLUMBING RISER R-1





**PAINTING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, scaffolding and equipment required to complete all work shown on the drawings and specified herein.
- B. Paint of exposed surfaces except where the natural finish of the material is obviously intended and specifically noted on a surface not to be painted. Where forms or surfaces are not specifically mentioned, paint these the same as adjacent similar materials or areas. Also include:
  1. Painting of exposed piping, conduit, ductwork, insulated piping, equipment, stands, hangers and other mechanical or electrical work. See Division 15 and 16 for color requirements.
  2. Painting of all existing metal doors and door frames, where shown.
  3. Painting of existing metal, wood, etc., on exterior to match new work, where shown.
- C. Do not paint any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, balances, sensing devices, motor and fan shafts, unless otherwise indicated.
- D. Do not paint any code required labels, such as Underwriters Laboratories and Factory Mutual, or any equipment.
- E. Include priming of all walls behind casework.
- F. Include priming and painting of all walls to receive vinyl wall covering.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Paints and Varnishes: Sherwin Williams, as specified, type and quality scheduled.

**2.2 PAINT SCHEDULE**

- A. Interior Ferrous Metals:
  - First Coat: Latex enamel undercoat
  - Second Coat: Latex semi-gloss
  - Third Coat: Latex semi-gloss
- B. Drywall, Plaster:
  - First Coat: Latex enamel undercoat
  - Second Coat: Latex eggshell
  - Third Coat: Latex eggshell
- C. Doors:
  - 1 coat: paint wood filler
  - 1 coat: oil-based penetrating stain
  - 2 coats: stain varnish
- D. Exterior Ferrous Metals:
  - First Coat: Zinc Chromate Primer
  - Second Coat: Exterior Alkyd
  - Third Coat: Exterior Alkyd

**ACOUSTICAL TREATMENT**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to install acoustical treatment indicated in the Room Finish Schedule.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Acoustical Tile Type 1 (ACT 1): Hospital standard 24" x 48". Class A flame spread rating.
- B. Acoustical Tile Type 2 (ACT 2): Hospital standard 24" x 24". Class A flame spread rating.

**RESILIENT FLOORING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to install the resilient flooring, as indicated in the Room Finish Schedule and on the drawings. Material shall be installed in strict accordance with manufacturer's application instructions.
- B. Resilient material and installation will be completed by the Owner. The contractor shall coordinate the installation of resilient flooring with the work.

**2.2 MATERIALS**

- A. Resilient Flooring: Mannington, Armstrong, Atrac or other approved.
  1. Vinyl Composition Tile: Straight grained pattern, 1/8" x 12" x 12" size. Flooring shall have radiant flux Class 1 flame spread.
  3. Base: 1/8" thick, 4" high top set vinyl core with job formed internal and external corners.

**MISCELLANEOUS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, scaffolding and equipment required to install specified accessories. Provide blocking for all accessories.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Cubical Curtain Track: Balcony existing where possible. If additional track is needed, match existing. Provide #2 roller carriers per 12' of length. Anchor to concealed fire retardant wood blocking.
- B. W Track: Balcony existing where possible. If additional track is needed, match existing. Provide telescoping carrier. Anchor to concealed fire retardant wood blocking.
- C. Corner Guards: Match hospital standard, stainless steel.
- D. Apron Hooks: Provide Quaker City Medical Speccholas, QC 2050 in 2" and 3/8" lengths as illustrated on drawings. Provide continuous fire retardant wood blocking behind apron hooks.
- E. Accessory Item: At each sink provide two Hospital standard surface mounted towel dispensers and 1 ea. Hospital standard soap dispenser.
- F. Hook Strips: Provide Bradley #9944 4 hook strips where shown on drawings.
- G. Blinds: Provide and install Laverie, 1" aluminum mini-blinds in control room windows. Color as selected by architect.
- H. Wall Protection, Scaled Holding: Construction Specifications, 1/8" Acroyon laminated directly to wall.

**METAL FRAMES AND DOORS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all materials necessary to complete the hollow metal work indicated and as specified herein. See drawings and schedule for type, size, design and location of metal doors, metal frames, matching panels, trim, etc. Provide metal UL labels on all metal frames.
  1. Provide metal UL labels on doors and frames where scheduled. Provide 250 degree temperature rise label of all metal doors.
  2. Provide broed channel frame of all lead lined doors.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Doors and frames of Cecco, Steelcraft, Arnsfeld, Meaker or other approved.
- B. Frames: Cold rolled steel frame sections arranged as shown on the drawings and of gauges indicated below.
  1. Interior Frames: 16 Gauge, minimum.

**GLASS AND GLAZING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to complete the installation of the glass work.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Herbol Brothers Co., 1/4" thickness, polished Mirco welded square pattern.
  1. Glazing Compound: DAP 33 glazing compound.
- C. Tempered Glass: 1/4" thickness, quality #3 polished plate or float glass.

**DRYWALL**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all material, labor, equipment and services necessary to complete the installation of the drywall work.
- B. All fire rated assemblies shall be constructed in strict accordance with the listed assembly.
- C. All materials shall be furnished by the same manufacturer.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. All materials shall be delivered to the job in original-unopened containers or bundles, and stored so as to prevent damage.
- B. Framing Materials:
  1. Metal Studs: USG 3.5/8" (6" shown) 25 gauge electro-galvanized, roll formed, metal studs with floor and top runner tracks. 20 gauge studs where shown on drawings and where lead lined drywall is indicated.
  3. Furring Channels: U.S. Opayem Co. 7/8" metal furring channels.
- C. Opayem Drywall Board Materials:
  1. Exposed Drywall: USG SHEETROCK, tapered edge or SW tapered edge, 5/8" thick; opayem wallboard meeting ASTM C-430.
    - a. Provide Type "X" gypsum wallboard as required to meet requirements.
    - b. Where drywall is the substrate for ceramic tile, provide sheetrock W/R moisture resistant wallboard meeting ASTM C-430.
- D. Acoustical Sealing:
  - At sound insulated partitions, apply caulking bead on both sides of floor runner, walls studs of all similar materials. Seal wallboard into caulking bead. At partition intersections, seal face layer with caulking bead prior to application of joint treatment. Seal perimeter, back and sides of all electrical boxes.

**PART 3 - INSTALLATION**

**3.1 FABRICATION**

- A. Install in strict accordance with manufacturer's installation instructions. Provide temporary protection until room is delivered to Owner for use.

**HARDWARE**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all materials necessary to complete the hardware indicated and as specified herein.
  1. Provide metal UL labels on metal hardware.
  2. Provide delay action closers on all doors over 36" in width.
  3. Provide 2 pair of butts on all doors wider than 36"

**PART 2 - PRODUCTS**

- A. Hardware shall match existing hospital hardware for manufacturer, grade, finish and type of hardware. Provide schedule of all metal frames.

**B. HARDWARE GROUPS**

- I. Group 1
  - 1 set Top, bottom and intermediate offset pivots
  - 1 ea Automatic flushbolts
  - 1 ea Closers with delay arm
  - 1 ea Lever handle lockset
  - 1 ea Coordinator
  - 1 ea Astragal (steel, surface mounted)
  - 1 ea Kickplate
  - 1 ea Map plates
- II. Group 2
  - 1 1/2 Pair Butts BB
  - 1 ea Closer
  - 1 ea Lever handle lockset
  - 1 ea Wall stop
  - 1 ea Kickplate
  - 1 ea Map plate
- III. Group 3
  - 1 1/2 Pair Butts BB
  - 1 ea Latch set
  - 1 ea Wall stop
  - 1 ea Kickplate
  - 1 ea Map plate

**WOOD DOORS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Include all labor, materials and equipment necessary to complete work as drawn and specified.
- B. Where walls are shown to be demolished, remove entire wall from floor to underside of deck above.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Doors shall be Algoma, Eggers, Paine, Weyerhaeuser or other approved.
- B. Face veneer shall be premium grade; match hospital species and slice.
- C. Solid Core Doors: Glued block core of low density wood, 2 1/2" maximum width, minimum length with joints well staggered. Matching edge veneer not less than 5/8" thick. Face veneer: 2 or 3 ply having combined thickness of 1/2" with face veneer not less than 1/32" thick. Type I glue.
- D. UL Labeled Wood Fire Doors: Mineral board core with matching hardwood edge strips minimum 5/8" thick. Include UL label as scheduled. All labeled wood doors shall be pre-UL and shall require no field burning or machinery. Provide 250 degree temperature rise label of all metal doors.

**FIRESTOPPING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish and install proprietary fire stopping materials of all penetrations through fire walls and floor/ceiling assemblies.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Materials shall be manufactured by 3M Fire Protection Products or other approved manufacturer. Penetrations shall be protected using UL tested and approved assemblies for the type of construction and penetration required. The same manufacturer shall provide all materials.

**CARPENTRY & MILLWORK**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Include all labor, materials and equipment necessary to complete work as drawn and specified.
- 1.2 SUBMITTALS
  - A. Submit shop drawings indicating size and location of each piece of millwork; elevations; details of construction and other pertinent data.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. All lumber built into partitions shall be fire retardant treated.
- B. All millwork shall comply with ANSI custom Grade construction standards. Finish overlay construction.
- C. Millwork is to be constructed of 3/4" plywood core. All exposed laminate is to be OSB 50. Include allowances for plumbing and electrical devices. Include cable grommets where cables pass through tops.
- D. Cabinet interior color shall match exterior color of cabinet. Vertical grade laminate may be used.
- E. Hardware:
  - Match existing hospital standard
- F. Edge Banding: Exposed edges of all doors, counter tops, back splash, drawers and table panels shall be finished with 3 mm PVC. Color of PVC banding shall match color of adjacent laminate.
- G. Drawer bases: 1/2" Birch plywood with clear finish and .10mm PVC edge banding on top to match adjacent laminate. 1/4" Birch plywood base bonded into four sides.
- H. Wood roll, millwork trim and face construction: RFR seven clear red oak.

**LEAD PROTECTION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Furnish all labor, materials, equipment and methods necessary to complete the installation of the lead glass & glazing doors, and drywall.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Lead Lined Doors: Solid core wood doors as manufactured by Bar-Ray Products or other approved. Doors shall be constructed using a single layer of (1/16") sheet lead in the center. Exposed sheet lead to the edges of the door. Solid wood cores on either side of the sheet lead shall be held together utilizing poured lead dowels 1/2" from all edges and 6" on center. Handwood molding shall be provided matching the face veneer of the door. Side edge strips shall be 3/4" thick before finishing and shall match face veneer.
- B. Lead Lined Drywall
  1. 2" wide strip of sheet lead shall be provided with each stud and shall be applied to studs prior to the installation of the wallboard so as to provide a minimum of 1" overlap with adjoining sheet. Strips shall be offset at intermediate studs so as to provide a smooth surface.
  2. Wallboard shall be fastened at a minimum of 6" on center of the edges for each stud and a minimum 12" on center of the intermediate studs.
    - a) Exposed walls: Install minimum 1" diameter lead disk over each stud. Flush and seal to cover lead disk.
    - b) Concealed walls: Where lead lined wall is concealed by a furring attach fasteners through a separate piece of lead sheathing. Bond excess length of cover top of fastener and spray with red paint.
  3. Core shall be taken but a continuous overlap of all adjoining sheets is obtained. Provide miscellaneous sheet lead for electrical boxes, pipes, conduits, etc., as required. Extend lead into metal frame and top lead sheet inside frame.

**RECEPTACLE OUTLETS**

42" INDICATES MOUNTED AT 42" A.F.F.  
 GFI INDICATES GROUND FAULT INTERRUPTING OUTLET  
 (PROTECTS DOWNSTREAM RECEPTS. ON SAME CKT.)  
 ADJUST LOCATIONS TO MINIMIZE CUT OF BLOCK AND  
 TILE. MOUNT WITH GROUND TERMINAL AT TOP.  
 ALL DEVICES SHALL BE HOSPITAL GRADE.

- ⊕ DUPLEX RECEPTACLE OUTLET  
NEMA 5-20R, HEAVY DUTY
- ⊕ DUPLEX RECEPTACLE OUTLET, EMERGENCY  
CIRCUIT, NEMA 5-20R, HEAVY DUTY, RED  
DEVICE, AND COVERPLATE
- ⊕ FLOOR DUPLEX RECEPTACLE OUTLET  
W/ COVER. NEMA 5-20R W/COVER
- ⊕ FLOOR SPECIAL PURPOSE OUTLET  
LETTER(S) BESIDE SYMBOL INDICATES  
ACTUAL EQUIPMENT SERVED.
- ◀ DUAL VOICE/DATA OUTLET, 18" A.F.F.  
(1 VOICE LINES, ONE DATA LINE)  
UNLESS OTHERWISE NOTED
- ◀ VOICE OUTLET AS NOTED  
W = WALL PHONE, 54" A.F.F. (ONE VOICE LINE)  
P = PAY PHONE, 42" A.F.F. (ONE VOICE LINE)

**SWITCHES / CONTROLS**

SWITCHES LOCATED IN THE SAME AREA SHALL  
 BE GANGED UNDER COMMON PLATE WHENEVER  
 PRACTICAL. GROUP SWITCHES, THERMOSTATS ETC.  
 TOGETHER. SWITCHES SHALL BE LOCATED ON  
 STRIKE SIDE OF DOOR. ADJUST TO MINIMIZE CUT  
 OF BLOCK OR TILE. LETTER IS SWITCH CONTROL  
 GROUP.

- \$ SINGLE POLE SWITCH
- \$2 DOUBLE POLE SWITCH
- \$3 THREE-WAY SWITCH
- \$4 FOUR-WAY SWITCH
- \$D DIMMER SWITCH, PROVIDE SWITCH  
FOR FIXTURES ACTUALLY SERVED.
- PB MOTORIZED DOOR PUSH BUTTON OPERATOR  
COORDINATE EXACT LOCATION WITH ARCHITECTURAL  
PLANS
- WB RECESSED WALL BOX - AS NOTED

**PANELS & CIRCUITS**

- ELECTRICAL PANEL, SURFACE MOUNTED
- ELECTRICAL PANEL, FLUSH MOUNTED
- ← HOME RUN TO CIRCUIT AND PANEL BOARD  
INDICATED. ARROWS INDICATE POLES.
- LPI-3 (PAR) INDICATES PARTIAL CIRCUIT  
INDICATES CIRCUIT NUMBER  
INDICATES PANEL
- ELECTRICAL FEED TO EQUIPMENT  
MULTIPLE ARROWHEADS INDICATES MULTIPLE  
CIRCUITS
- ↪ DIRECT CONNECTION OF EQUIPMENT NOTED.  
USE FLEXIBLE CABLE OF TYPE APPROVED  
FOR LOCATION.
- ↪ CONDUIT TURNING DOWN
- ↪ CONDUIT TURNING UP
- ↕ CONDUIT RUN UP AND DOWN
- ↕ CONDUIT OR CABLE RUN ABOVE GRADE
- CONDUIT OR CABLE RUN, FEEDER  
CONCEALED
- J, C, D JUNCTION BOX - SIZED IN ACCORDANCE  
WITH NEC - "C" INDICATES MOUNTING  
IN CEILING SPACE
- 3 Pole, NON-FUSIBLE DISCONNECT SWITCH  
30 = AMPACITY, VOLTAGE AS REQ'D.
- 3 Pole FUSIBLE DISCONNECT SWITCH  
60 = CLIP SIZE, 40 = FUSE SIZE  
VOLTAGE AS REQ'D
- 3 Pole WEATHERPROOF DISCONNECT SWITCH  
SIZE & CONFIGURATION AS NOTED ABOVE
- MOTOR, HP AS INDICATED  
COORDINATE W/ ACTUAL  
EQUIPMENT FURNISHED.
- COMBINATION MAGNETIC STARTER - NEMA  
SIZE AS REQUIRED (MINIMUM SIZE 1)  
PROVIDE W/ H-0-A SWITCH AND GREEN RUN LIGHT  
ON COVER.

**FIRE ALARM & LIFE SAFETY**

- SD SMOKE DETECTOR  
C = ELEVATOR CONTROL
- S DUCT SMOKE DETECTOR - SHALL BE FROM  
THE SAME MANUFACTURER AS THE BUILDING  
FIRE ALARM SYSTEM
- FS FIRE ALARM STROBE LIGHT, MTD 80" A.F.F.  
75 CD 75 CANDELA, U.N.O.
- DH FIRE ALARM SYSTEM MAGNETIC  
DOOR HOLDER

**INTERCOM AND NURSE CALL SYSTEM**

- SPEAKER - RECESSED CEILING MOUNTED  
W - RECESSED WALL MOUNTED
- V VOLUME CONTROL
- CB NURSE CALL CODE BLUE (CODE "99") STATION
- N NURSE CALL CORRIDOR LIGHT

**LIGHTING**

- RECESSED DOWN LIGHT  
UPPERCASE LETTER INDICATES FIXTURE TYPE (TYP.)  
LOWERCASE LETTER INDICATES SWITCHING (TYP.)
- FLUORESCENT, SURFACED, SUSPENDED OR RECESSED

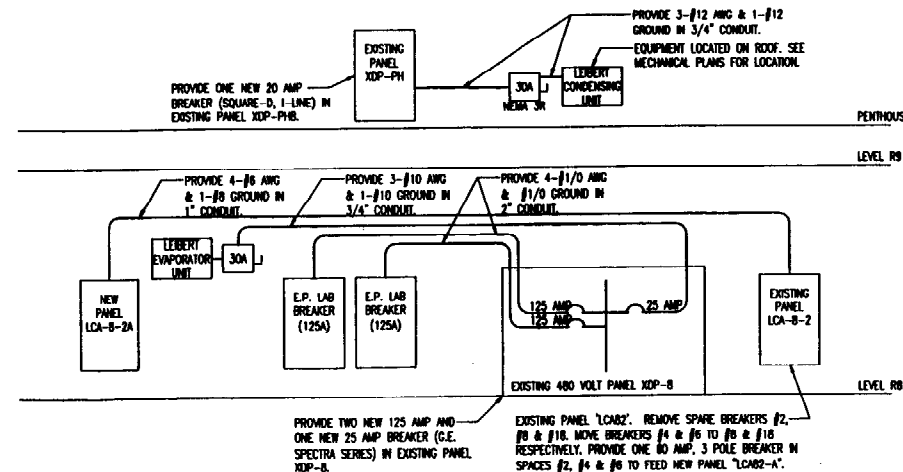
**ABBREVIATIONS**

- ACU AIR CONDITIONING UNIT
- AFF ABOVE FINISHED FLOOR
- AFC ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- C CONDUIT
- CB CIRCUIT BREAKER
- CD CANDELA
- < CENTER LINE
- CLF CURRENT LIMITING FUSE
- CT CURRENT TRANSFORMER
- CTV CABLE TELEVISION
- CCTV CLOSED CIRCUIT TELEVISION
- CU CONDENSING UNIT, COPPER
- CUH CABINET UNIT HEATER
- CWP CONDENSER WATER PUMP
- DW DISHWASHER
- DWC DRAWING
- EBB ELECTRIC BASEBOARD HEATER
- EDH ELECTRIC DUCT HEATER
- EF EXHAUST FAN
- EUH ELECTRIC UNIT HEATER
- EWC ELECTRIC WATER COOLER
- E EXISTING EQUIPMENT (AS NOTED)
- FACP FIRE ALARM CONTROL PANEL
- FC FAN COIL
- FBO FURNISHED BY OWNER
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- H HUMIDIFIER
- HD HAND / HAIR DRYER
- HH HAND HOLE
- HP HORSE POWER / HEAT PUMP
- HPS HIGH PRESSURE SODIUM
- HRU HEAT RECOVERY UNIT
- HWP HOT WATER CIRC. PUMP
- IG ISOLATED GROUND
- IMC INTERMEDIATE METAL CONDUIT
- IR INFRA-RED
- KW KILOWATT
- KWH KILOWATT HOUR
- LTG LIGHTING
- MB MAIN BREAKER
- MATV MASTER ANTENNA TELEVISION
- MD MAIN DISCONNECT
- MDP MAIN DISTRIBUTION PANEL
- MH MAN HOLE / METAL HALIDE
- MLO MAIN LUGS ONLY
- MMC MAINE MEDICAL CENTER
- MON MONITOR
- MTD MOUNTED
- MW MICROWAVE
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE (NFPA-70)
- NF NOT FUSED
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- OC ON CENTER
- OCN OVERCURRENT DEVICE
- PB PULL BOX
- PT POTENTIAL TRANSFORMER
- RECP RECEPTACLE
- REQ'D REQUIRED
- RGS RIGID GALVANIZED STEEL CONDUIT
- S/N SOLID NEUTRAL
- TBD TO BE DETERMINED
- TR TAMPER RESISTANT
- TV TELEVISION
- TYP TYPICAL
- UC UNDER COUNTER
- UNO UNLESS NOTED OTHERWISE
- WP WEATHERPROOF
- XFMR TRANSFORMER

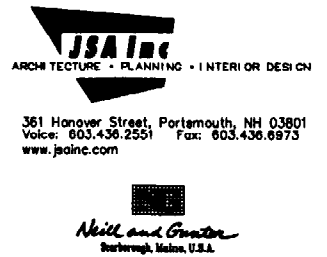
**GENERAL NOTES**

1. ALL GENERAL NOTES, SYMBOL LIST & DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
2. ALL WORK PERFORMED ON THIS CONTRACT SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE IN COMPLIANCE WITH NEC, NFPA, BOCA, OSHA, AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES
3. THESE DRAWINGS ARE, IN GENERAL, MADE TO SCALE BUT ALL MEASUREMENTS SHALL BE TAKEN FROM FIGURED DIMENSIONS, AND NOT BY SCALING.
4. THE ELECTRICAL CONTRACTOR SHALL CONFER WITH ALL OTHER TRADES RELATIVE TO THE LOCATION OF APPARATUS AND EQUIPMENT AND SELECT LOCATIONS SO AS NOT TO CONFLICT WITH WORK OF OTHER TRADES.
5. LIGHTING FIXTURE MANUFACTURERS NAME & MODEL NUMBER ARE USED FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. ALL OTHER EQUIPMENT SHALL NOT BE SUBSTITUTED EXCEPT UNDER THE PROVISIONS OF SECTION 3A, ARTICLE 9, (CONDITIONS OF THE CONTRACT) OR OTHERWISE ALLOWED BY SPECIFICATION.
6. ALL EQUIPMENT SHOWN ON THESE DRAWINGS IS INTENDED TO BE GENERALLY REPRESENTATIVE OF THE EQUIPMENT WHICH WILL BE INSTALLED UNDER THIS CONTRACT, BUT IT SHALL NOT BE ASSUMED THAT THE DRAWINGS INDICATE THE SPECIFIC CONFIGURATION, ARRANGEMENT OR POINTS OF CONNECTION OF THE ACTUAL EQUIPMENT UNLESS NOTED OTHERWISE.
7. ALL MOUNTING HEIGHTS GIVEN IN LEGEND ARE TYPICAL, UNLESS NOTED OTHERWISE IN SPECIFICATION, SECTION 16010, OR ON THESE DRAWINGS.
8. COORDINATE W/ CONTROLS CONTRACTOR TO PROVIDE POWER FOR ALL MISCELLANEOUS CONTROL OPERATORS AND PANELS
9. CIRCUIT BREAKERS USED FOR LIGHTING CIRCUITS SHALL BE SWITCH DUTY RATED AND APPROVED FOR USE WITH H.I.D. FIXTURES. CIRCUIT BREAKERS USED FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED.
10. ALL HOME RUNS FOR LIGHTING OR POWER CIRCUITS LONGER THAN 150 FEET SHALL BE INCREASED ONE SIZE. (IE: #12 TO #10)
11. ALL WIRING RUN TO A RECESSED PANEL SHALL NOT BE INSTALLED IN A CONDUIT SLEEVE TO THE PANEL BUT SHALL INSTEAD BE TERMINATED IN A WIREWAY ABOVE THE PANEL IN THE CEILING SPACE.
12. PROVIDE 3/8" NYLON ROPE IN ALL EMPTY SERVICE RACEWAYS.
13. ALL SLEEVES AND OTHER PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE SEALED AFTER CABLE INSTALLATION WITH A FIRE RETARDANT COMPOUND TO MAINTAIN THE ASSEMBLY'S RATING.
14. EXISTING WIRING AND ELECTRICAL DEVICES/EQUIPMENT SHALL NOT BE REUSED INCLUDING CATV, LIGHTING, POWER AND INTERCOM AND SHALL BE REMOVED UNLESS OTHERWISE NOTED. ALL REMOVED EQUIPMENT, FIXTURES, DEVICES AND THE LIKE SHALL BE TURNED OVER TO THE HOSPITAL OR DISPOSED OF AT THE HOSPITAL'S DIRECTION.
15. THE CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AROUND ALL CONDUITS, CABLES AND ALL ELECTRICAL EQUIPMENT AT ALL PARTITIONS PIERCED PER NEC 300-21 AND B.O.C.A.
16. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL SIEMSC REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT UNDER B.O.C.A.
17. GROUNDING SHALL BE PER N.E.C. ARTICLE 250, INSTALL GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	RECESSED 120/208, 3PH., 4W	A/C BUS RATING	22,000 A/C 60 AMP MLO	CKT. NO.
1	LIGHTING, E.P. LAB	1200	20				2
3	RECP-PEDISTAL UNDER TABLE	720	20				4
5	RECP- E.P. LAB	540	20				6
7	SPARE	-	20				8
9	SPARE	-	20				10
11	SPARE	-	20				12
13	SPARE	-	20				14
15	SPARE	-	20				16
17	SPARE	-	20				18
19	SPARE	-	20				20
21	SPARE	-	20				22
23	SPARE	-	20				24
PANEL LOCATION CORRIDOR							
		1400			TOTAL VA PHASE A		
		920			TOTAL VA PHASE B		
		1540			TOTAL VA PHASE C		
		3860			TOTAL LOAD	11 AMPS	



**POWER DISTRIBUTION ONE-LINE  
 DIAGRAM - NEW WORK**  
 N.T.S.



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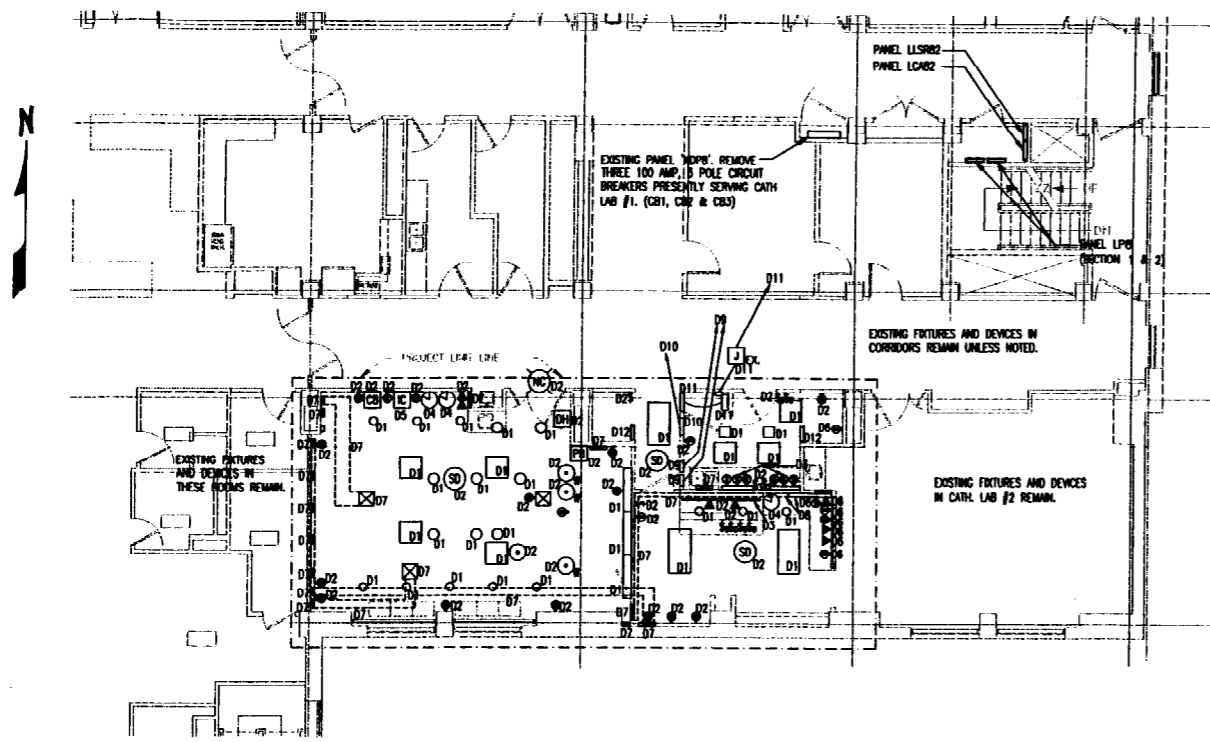
8TH FLOOR RENOVATION  
 EP LAB

MAINE MEDICAL CENTER  
 PORTLAND, ME

ISSUED FOR  
 CONSTRUCTION



Scale: AS NOTED  
 Project Number: 00-970.00  
 Date: 10/26/2001  
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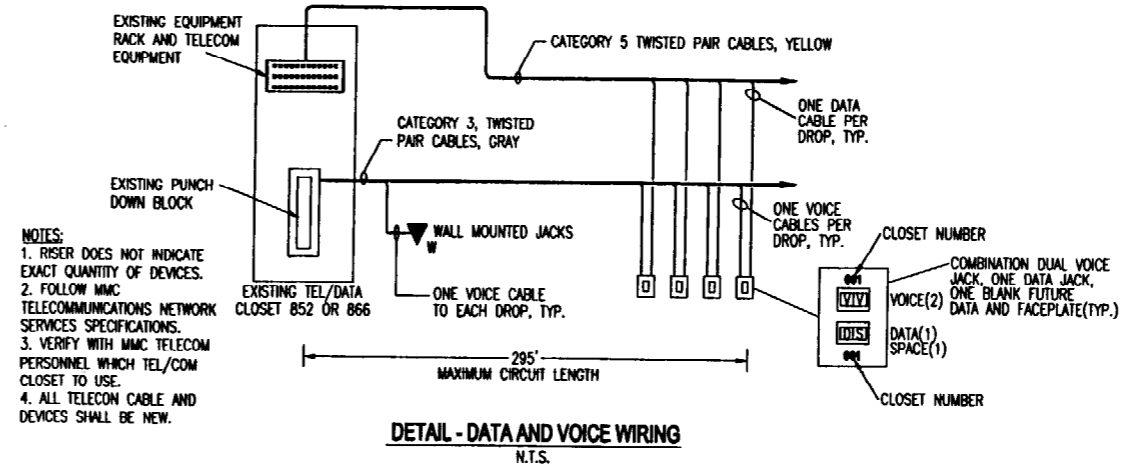
**ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"

**DEMOLITION DRAWING NOTES:**

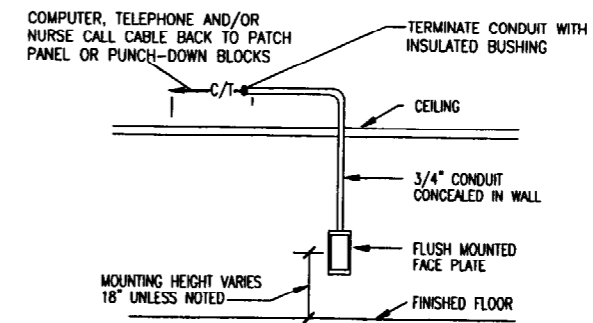
- D1 REMOVE EXISTING LIGHT FIXTURE.
- D2 REMOVE EXISTING FIRE ALARM DEVICE, SPEAKER, EXIT SIGN, SWITCH, RECEPTACLE OR DATA/PHONE JACK.
- D3 REMOVE EXISTING WIREMOLD & RECEPTACLES.
- D4 REMOVE EXISTING SYSTEM CLOCK AND TURN OVER TO HOSPITAL.
- D5 REMOVE EXISTING STENTOPHONE AND TURN OVER TO HOSPITAL.
- D6 EXISTING FIRE ALARM DEVICE, SPEAKER, EXIT SIGN, SWITCH, RECEPTACLE OR DATA/PHONE JACK REMAIN.
- D7 REMOVE EXISTING SURFACE AND/OR RECESSED WIREWAY AND OTHER RACEWAYS, ABOVE CEILING AND BELOW FLOOR, FORMERLY SERVING CATH. LAB #1 EQUIPMENT.
- D8 REMOVE EXISTING SURFACE WIREWAYS (ABOVE CEILING AND BELOW COUNTER TOP) TO CLEAR DEMOLITION AREA. REROUTE EXISTING CATH. LAB #2 CABLES ACCORDINGLY TO MAINTAIN LAB #2 FUNCTIONS.
- D9 REMOVE EXISTING ENCLOSED CIRCUIT BREAKERS CB1 AND CB2. REMOVE CONDUCTORS AND CONDUITS BACK TO PANEL XDPB.
- D10 REMOVE EXISTING PANEL CB4. REMOVE EXISTING CONDUCTORS AND CONDUITS BACK TO SOURCE.
- D11 REMOVE EXISTING PANEL CB3, 37.5 KVA TRANSFORMER AND ENCLOSED CIRCUIT BREAKER CB3. REMOVE CONDUCTORS, CONDUIT AND JUNCTION BOX, BACK TO PANEL XDPB.
- D12 EXISTING GROUND BUS AND ENCLOSURE TO BE REMOVED AND RELOCATED (LOCATION TO BE DETERMINED). EXTEND ALL GROUND CONDUCTORS AND CONDUITS AS NECESSARY.

**DEMOLITION GENERAL NOTES:**

1. REMOVE EXISTING LIGHT FIXTURES AND SWITCHES AS NOTED. REMOVE LIGHTING BRANCH CIRCUITS BACK TO SOURCE PANELS. MAINTAIN CIRCUITS TO FIXTURES TO REMAIN ELSEWHERE ON THE FLOOR.
2. REMOVE EXISTING NURSE CALL EQUIPMENT INCLUDING DOME LIGHTS, CODE 99 STATIONS AND CONDUCTORS BACK TO NURSE CALL CONTROL PANEL.
3. REMOVE EXISTING FIRE ALARM EQUIPMENT INCLUDING SMOKE DETECTORS AND DOOR HOLDERS AS NOTED. REMOVE FIRE ALARM CONDUCTORS AND CONDUIT BACK TO NEAREST JUNCTION BOX. SPLICE CONDUCTORS TO MAINTAIN FIRE ALARM SYSTEM OPERATION ELSEWHERE ON THE FLOOR.
4. REMOVE TELEPHONE AND DATA JACKS. REMOVE CONDUIT BACK TO CABLE TRAY IN CORRIDORS. REMOVE CABLING BACK TO SOURCE PUNCH DOWN BLOCK OR PATCH PANEL. TELEPHONE AND DATA CABLING AND JACKS SHALL NOT BE REUSED.
5. REMOVE EXISTING PUBLIC ADDRESS SPEAKERS AS NOTED. REMOVE PUBLIC ADDRESS CONDUCTORS AND CONDUIT BACK TO NEAREST JUNCTION POINT. SPLICE CONDUCTORS TO MAINTAIN PUBLIC ADDRESS SYSTEM OPERATION ELSEWHERE ON THE FLOOR.

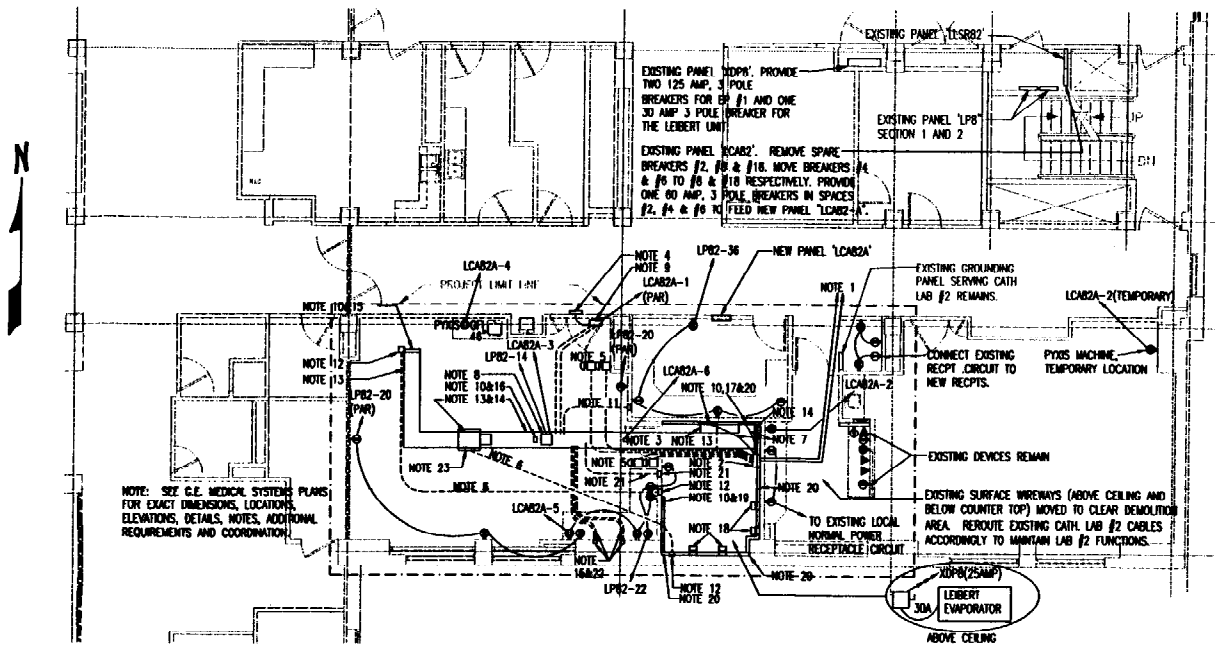


**DETAIL - DATA AND VOICE WIRING**  
N.T.S.



**DETAIL - TYP. TELEPHONE/NETWORK/NURSE CALL OUTLET**  
N.T.S.





**POWER PLAN**  
SCALE: 1/8"=1'-0"

**POWER NOTES:**

- 4-1/0 AND 1-1/0 GND. IN 2" CONDUIT TO EXISTING PANEL XDPB. PROVIDE TWO NEW 125 AMP BREAKERS IN PANEL XDPB.
- MAIN CIRCUIT BREAKER PANEL, WITH EMG. OFF PUSHBUTTON, G.E. MEDICAL CAT. NO. 145022. TYPICAL OF TWO. CONTACT G.E. MEDICAL AT 888-556-2040, EXTENSION 2 FOR REQUIREMENTS.
- JUNCTION BOX AT CEILING WITH 120 VOLT HOMERUN FOR SURGICAL LAMP.
- "X-RAY ON" SIGN ABOVE DOOR, ALKCO EC-12 OR EQUAL.
- EMERGENCY OFF SWITCH, G.E. MEDICAL SYSTEMS CAT. NO. A809100, WITH 3-1/4" IN 1/2" CHL. BACK TO THE MAIN DISCONNECT. (TYP. OF 4). MOUNT SWITCHES 60" AFF.
- ONE 2-1/2" CONDUIT BELOW FLOOR FOR FLEXIBLE WATER LINE.
- 4-1/0 AND 1-1/0 GND. IN 2" CONDUIT BETWEEN MAIN BREAKERS AND GENERATOR/POWER UNIT (2).
- DEDICATED NORMAL AND EMERGENCY POWER CIRCUITS TO THE HILL-ROM FLOOR MOUNTED "SERVICE PEDESTAL" LOCATED BENEATH THE OMEGA IV PATIENT TABLE. EXACT FINAL LOCATION TO BE DETERMINED. COORDINATE CORE-DRILLING WITH OTHER TRADES.
- X-RAY WARNING LIGHT AND ROOM LIGHT CONTROL PANEL, G.E. MEDICAL CAT. NO. RAS004. LOCATE ABOVE CEILING NEAR SIGN FIXTURE. PROVIDE TWO SETS OF 3-1/4" IN 1/2" CHD FROM CONTROL PANEL TO "WPE" VIA DUCT.

**POWER NOTES (CONTINUED):**

10. GROMMET MATERIAL FOR OPENINGS IN DUCT COVERS. SEE G.E. MEDICAL SYSTEMS DRAWINGS FOR QUANTITIES AND LOCATIONS.
11. ONE 2-1/2" CONDUIT FROM DUCT, BELOW FLOOR, TO 6"x6"x4" BOX FOR ADVANTIX CONSOLE.
12. WATER CHILLER HOSE OUTLET, 6"x6"x4" BOX.
13. 18"x3.5" DUCT ABOVE CEILING.
14. 18"x3.5" DUCT BELOW FLOOR.
15. TWO 4"x4"x4" BOXES FOR TV MONITORS.
16. 6"x3.5" RISER DUCT TO 1/2" AFF. 12"x11"x1/2" GROUND BAR AND HARDWARE.
17. 18"x3.5" FLUSH WALL DUCT.
18. DUCT/CABINET CONNECTOR.
19. 10"x3.5" SURFACE WALL DUCT.
20. 18"x3.5" SURFACE WALL DUCT ABOVE CABINETS.
21. ONE 2" CONDUIT FROM DUCT, BELOW FLOOR, TO 6"x6"x4" BOX FOR DIMMATOR CONTROL.
22. ONE 1-1/4" & ONE 1/2" CONDUIT BETWEEN DUCT AND BOXES FOR EACH TV.

**POWER NOTES (CONTINUED):**

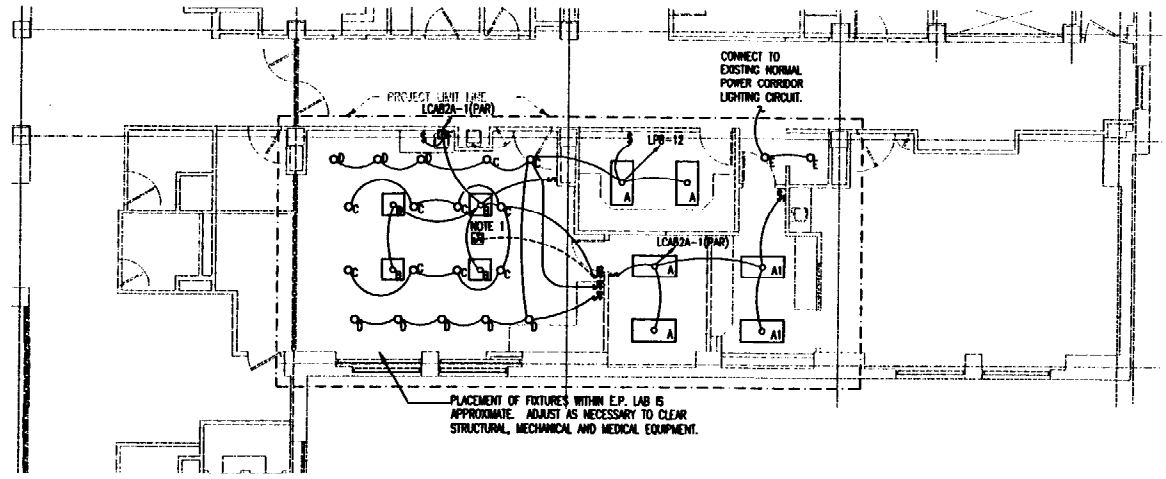
23. ONE 2"x24"x12", ONE 12"x12"x8" BOX AND ASSOCIATED CONDUIT AND HARDWARE FOR LC4 UNIT.

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**LIGHTING PLAN**  
SCALE: 1/8"=1'-0"

**LIGHTING NOTES:**

1. PROVIDE 3-WAY FOOT SWITCH UNDER TABLE FOR LIGHTING CONTROL.

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	NOTES
A	2' x 4', 3 LAMP PARABOLIC	COLUMBIA	HC24-332G-LD39 S-3E8BLH-120	3-T832/SP35/RS	① ②
A1	2' x 4', 3 LAMP PARABOLIC	COLUMBIA	HC24-332G-LD39 S-3E8BD-120	3-T832/SP35/RS	① ② ③
B	2' x 2' RECESSED 3 LAMP PRISMATIC	COLUMBIA	4PS22-317G-FSA12.125M-EB8-120	3-T817/SP35/RS	① ②
C	7" DOWNLIGHT ROUND, LENSED	LITHONIA	LGZ 7 FW CHL	75W PAR38	①
D	7" WALLWASHER ROUND, LENSED	LITHONIA	DW 7 WSL	75W A21	①
E	6" DOWNLIGHT ROUND	PRESCOLITE	CFR626EB-WT372A-B24	1-26W QUAD	① ②
F	SURFACE TASK LIGHT	ALKCO	WAL-11280 ECB	2-13W PL	① ② ④

**NOTES:**

- ① ALL FIXTURES SHALL BE 120 VOLTS.
- ② BALLASTS SHALL BE ELECTRONIC.
- ③ PROVIDE WITH DIMMING BALLAST.
- ④ MATCH EXISTING FIXTURES AT SCRUB SINKS

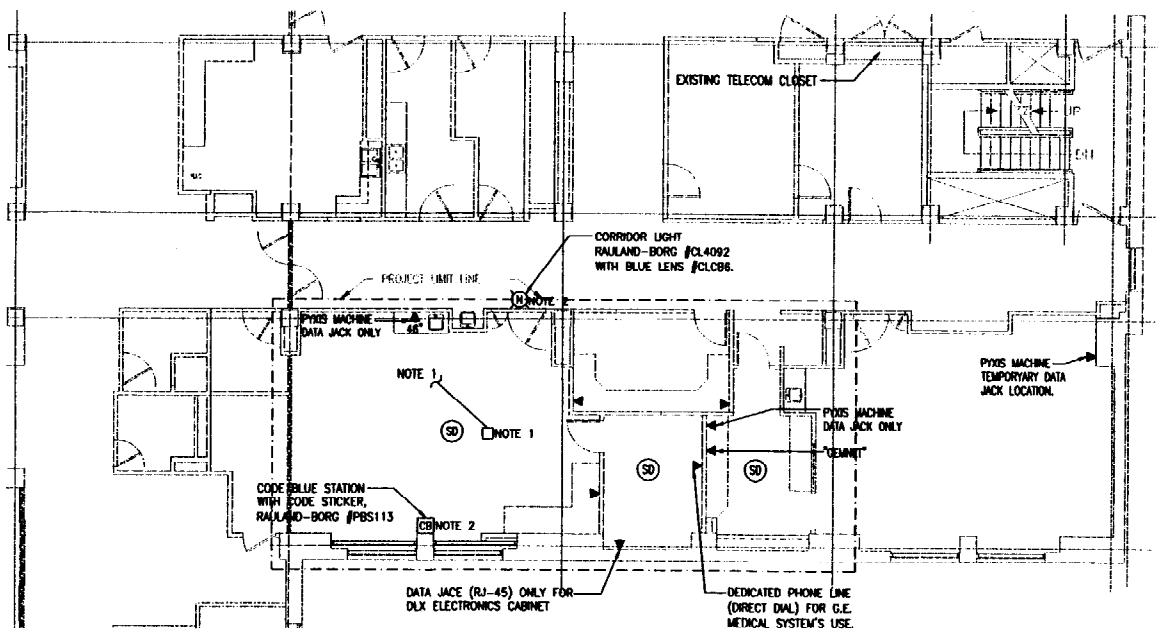
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Scale: AS NOTED  
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**SYSTEMS PLAN**  
SCALE: 1/8"=1'-0"

**SYSTEMS NOTES:**

1. PROVIDE 2" CONDUIT FROM "HILL-ROM" SERVICE PEDESTAL, UNDER FLOOR TO LOCATION AS DIRECTED BY CLINICAL ENGINEERING. COORDINATE CORE-DRILLING WITH OTHER TRADES.
2. PROVIDE COMMON CIRCULATING CONDUCTORS AND DEDICATED HOMERUN CONDUCTORS AS REQUIRED BY RAILLARD-BORG TO TIE INTO THE EXISTING CODE BLUE SYSTEM.