

LANDMARK HEALTHCARE FACILITIES LLC

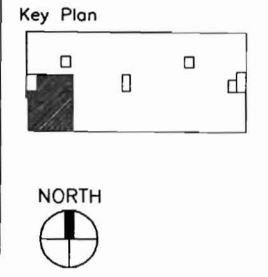
Mercy Hospital
 Medical Office Building
Portland Surgical Associates

Suite No.: 420
 Floor No.: 4th

12/6/07



LANDMARK HEALTHCARE FACILITIES, LLC
 839 North Jefferson Street
 Milwaukee, Wisconsin 53202
 Telephone: (414) 277-0500
 Facsimile: (414) 277-1055



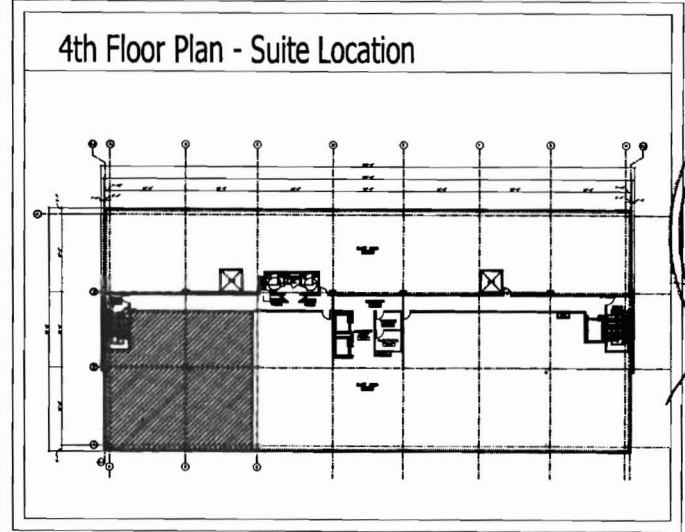
Architectural
 Francis Cauffman
 2120 Arch Street
 Philadelphia, PA 19103
 Ph 215.568.8250
 Fx 215.568.2639

Structural
 O'Donnell & Naccarato
 111 S. Independence Mall
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Mechanical/Plumbing
 AKF ENGINEERS, LLP
 1500 Walnut Street
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Electrical
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Fire Protection
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 Ph 215-735-7290
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- T1.2 Title Sheet
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- A6.2 Floor Plan - Furnishings, Power and Equipment Locations
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- A11.1 Door Schedule and Details
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- P060106-E.H-1.0
- P060106-E.H-2.0
- P060106-E.H-3.0
- P060106-E.P-1.0
- P060106-E.P-1.1
- P060106-E.P-2.0
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- P060106-E.P-4.0
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- P060106-E.FP-1.0
- P060106-E.FP-2.0
- P060106-E.FP-3.0

TEAS
 PDH
 07/478

Building Data / Code Summary		2,986 S.F.
1. Code Reference:	Building Code - International Building Code 2003 Accessibility Code - Maine Accessibility Code ICC / ANSI A117.1 Plumbing Code - International Plumbing Code 2003 Fire Protection Code - NFPA Code / City of Portland Mechanical Code - International Mechanical Code 2003 Electrical Code - NEC National Electric Code 2005	
2. Occupancy / Use Group:	Business Use Group B (IBC Code 2003) New Business Occupancy (NFPA-101)	
3. Construction Type:	Type II-B with appvd. automatic sprinkler system / IBC 2003 Type II (000) - Unprotected, Noncombustible with approved supervised automatic sprinkler system / NFPA-101/220. NFPA 13 - Install. of Sprinkler Systems, Ordinary Hazard	
4. Fire Resistance:	Exterior Wall - 0 Hr. Shaft Wall - 1 Hr. Corridor Wall - 0 Hr. Demising Wall - 2 Hr. Floor/Roof Construction - 0 Hr. Columns/Beams - 0 Hr.	
5. Fire Protection System:	Fully Sprinkled, Manual Fire Alarm	

Sheet
Title Sheet

Project
**MERCY HOSPITAL
 Medical Office Bldg.
 Portland, Maine
 Portland Surgical
 Associates**

Suite 420

Date
November 20, 2007

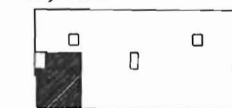
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F07-5256.00

Sheet No.
T1.1

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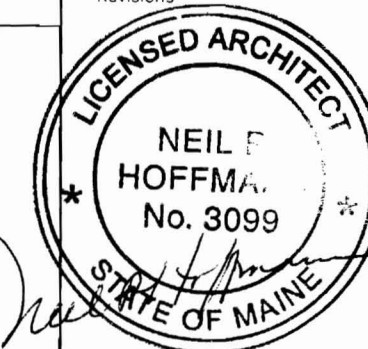
Key Plan



NORTH



Revisions



GENERAL NOTES

1. SUITE AREAS SHALL BE FINISHED IN THE CORE AND SHELL BUILDING PHASE AS NOTED BELOW:
 - A) EXTERIOR STUD WALLS: EXPOSED STUDS, INSULATION AND VAPOR BARRIER IF INDICATED BY WALL SECTIONS
 - B) EXTERIOR CONCRETE WALLS: EXPOSED STUDS OR FURRING, INSULATION AND VAPOR BARRIER
 - C) INTERIOR FIRE RATED PARTITIONS: TAPED GYPSUM BOARD
 - D) INTERIOR NON-RATED PARTITIONS: EXPOSED STUDS (AND INSULATION IF APPLICABLE BY WALL TYPE)
 - E) CEILING: EXPOSED STRUCTURE
 - F) FLOORS ON GRADE: GRANULAR FILL OVER VAPOR BARRIER WITH CONCRETE SLAB, INCLUDE IN SHELL AND CORE CONTRACT. SLABS IN TENANT SUITES TO BE POURED AS TENANT CONSTRUCTION DRAWINGS BECOME AVAILABLE.
 - G) FLOORS AT UPPER LEVEL: EXPOSED STRUCTURE
 - H) COLUMNS UNRATED: EXPOSED STEEL OR CONCRETE
 - J) COLUMNS RATED: FIRE PROOFING ON STEEL OR EXPOSED CONCRETE
2. EXTERIOR WALL BELOW FINISH CEILING SHALL BE INSULATED WITH UN-FACED BATT INSULATION IN METAL STUDS AND VAPOR BARRIER ONLY IN SUITE AREAS. DRYWALL AND FINISH SHALL BE PROVIDED IN SUITE AREA BUILD-OUT CONTRACT AFTER OUTLETS HAVE BEEN LOCATED.
3. EXTERIOR WALL ABOVE FINISH CEILING SHALL BE SIMILAR TO NOTE 2 ABOVE PLUS EXTERIOR WALL SHALL RECEIVE 1/4" GYPSUM BOARD TO PROTECT INSULATION AND VAPOR BARRIER ABOVE CEILING. CONTRACTORS SHALL VERIFY FINISH CEILING HEIGHT WITH LANDMARK PRIOR TO START OF CONSTRUCTION AND SHALL PLACE 1/4" GYPSUM BOARD STARTING 6" ABOVE FINISH CEILINGS.
4. SPACE ABOVE "CEILING" IS A RETURN AIR PLENUM. WIRING IN PLENUMS SHALL COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE NATIONAL ELECTRIC CODE. LOW VOLTAGE WIRING ABOVE CEILINGS OF CORRIDORS, TELEPHONE AND ELECTRICAL ROOMS IN THE BASE BUILDING, WHICH ARE NON-PLENUM AREAS, MAY BE EXPOSED WHEN THE FLOOR/ CEILING OR ROOF CEILING IS NOT A U.L. ASSEMBLY: BUT MUST COMPLY WITH PLENUM REQUIREMENTS WHEN PART OF A U.L. ASSEMBLY. LOW VOLTAGE WIRING IS NOT TO BE RUN IN THE CEILING SPACE ABOVE PUBLIC RESTROOMS, ELEVATOR ROOMS, OR MECHANICAL ROOMS.
5. EXTERIOR WALL AT BRACE FRAME SHALL BE INSULATED WITH UN-FACED BATT INSULATION AND A VAPOR BARRIER IN SUITE AREA. A SECOND PARTITION SIMILAR TO TYPE "K" SHALL BE PROVIDED AROUND BRACE FRAME. DRYWALL AND FINISH SHALL BE PROVIDED IN A SUITE AREA. BUILD-OUT AFTER OUTLETS HAVE BEEN LOCATED. REFER TO DETAIL 5 "FINISH AT STRUCTURAL BRACE FRAME" ON SHEET A10.2
6. SEE SHEETS A10.1 AND A10.2 FOR PARTITION TYPES.
7. DIMENSIONS ARE FACE OF WALL TO FACE OF WALL (NOMINAL).

Sheet

Title Sheet

Project

MERCY HOSPITAL
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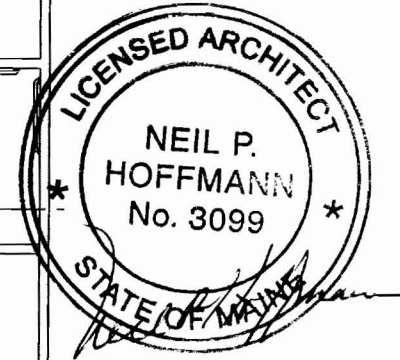
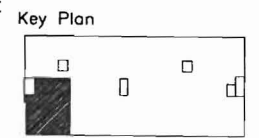
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Sheet No.

T1.2

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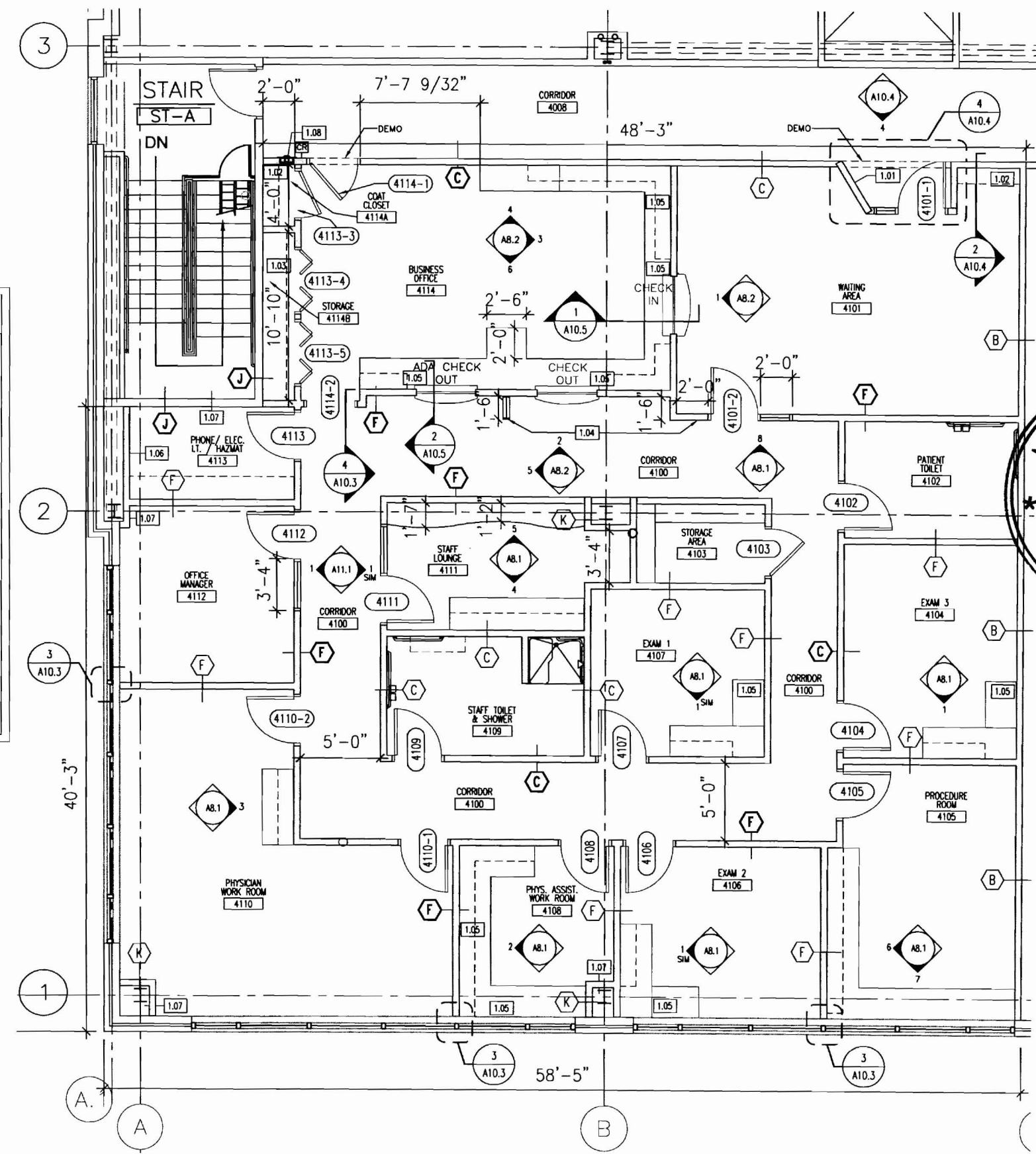
Sheet
**Floor Plan -
Architectural
(Partial)**

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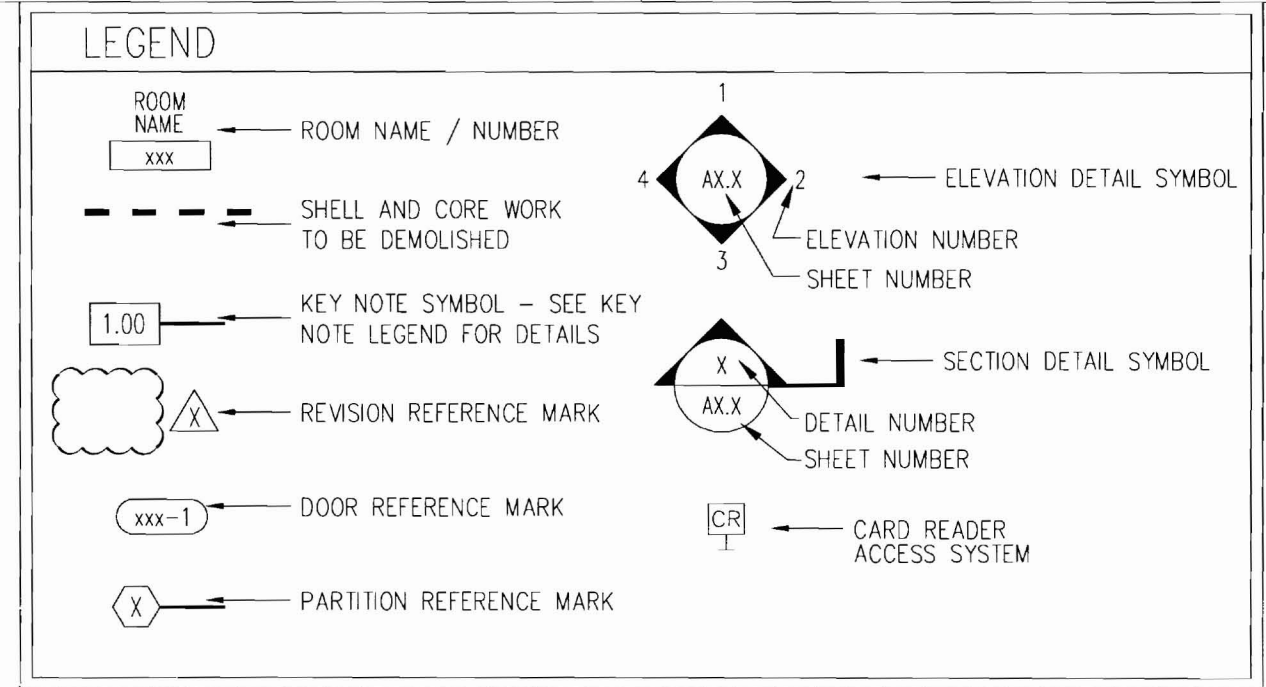
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A6.1

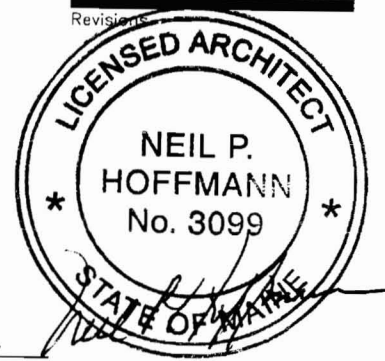
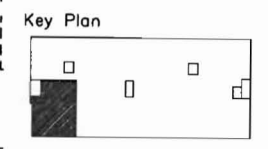
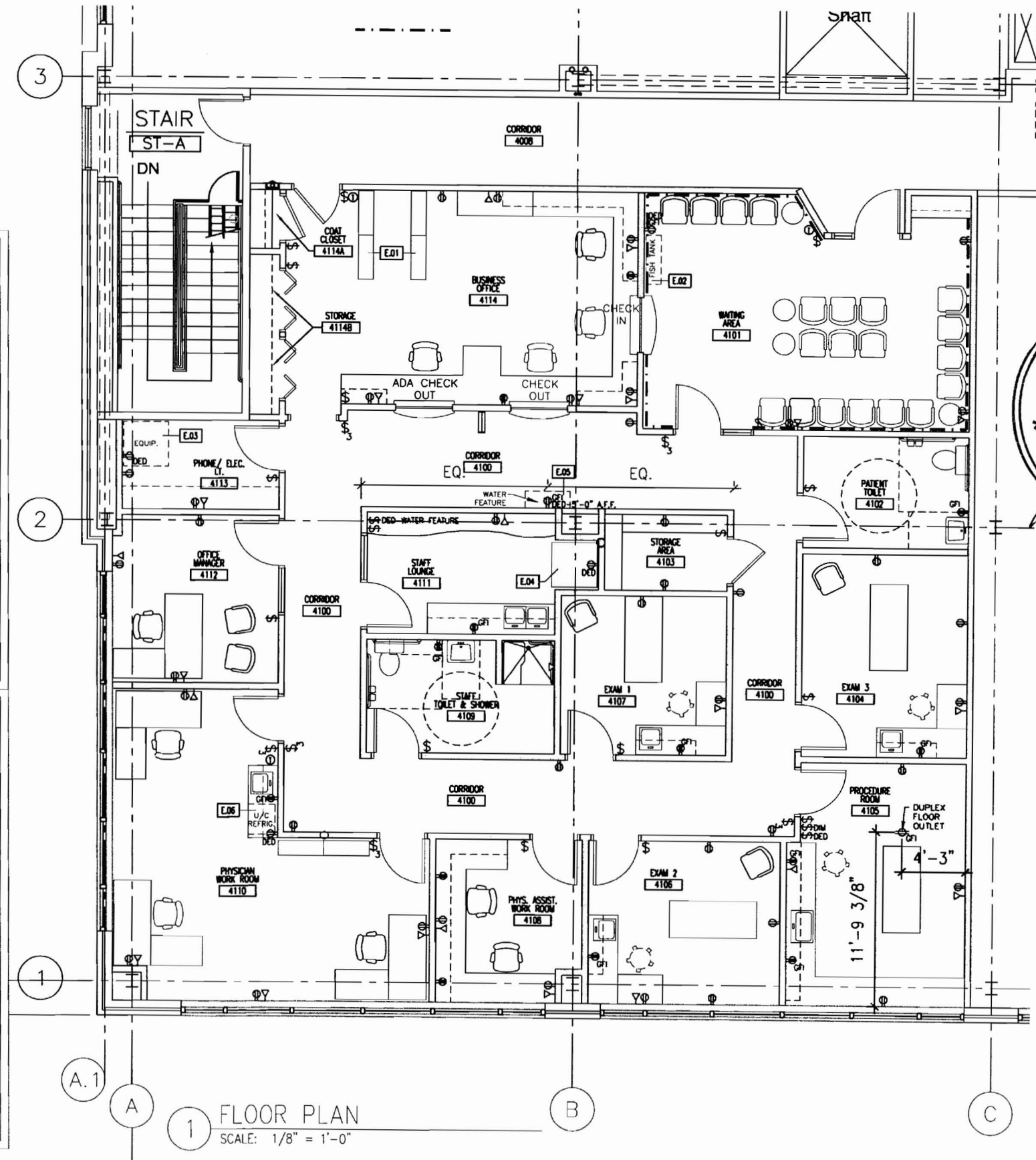


1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

- GENERAL NOTES**
1. PROVIDE INSULATION AND GYPSUM BOARD FINISH ON THE METAL STUDS PROVIDED IN THE SHELL AND CORE WORK - FIELD VERIFY AND CLARIFY ALL CONDITIONS PRIOR TO BIDDING
 2. USE WATER RESISTANT GYPSUM BOARD IN TOILET ROOMS AND OTHER SIMILAR ROOMS
 3. ALL CHANGES TO THE SHELL AND CORE WORK DUE TO TENANT WORK SHALL BE INCLUDED IN THE COST FOR TENANT WORK
 4. DIMENSIONS ARE FACE TO FACE (NOMINAL) OF FINISH MATERIAL, UNLESS NOTED OTHERWISE
 5. PROVIDE MINI-BLINDS IN ALL TENANT SUITE WINDOWS ANCHORED TO ALUMINUM FRAME
 6. ALL PARTITIONS ENCLOSING OFFICES AND EXAM ROOMS SHALL BE TYPE "C". ✓

- KEY NOTE LEGEND**
- 1.01 SUITE ENTRY PLAQUE - SEE DETAIL 4/A10.4
 - 1.02 COAT RACK - SEE DETAIL 2/A10.4
 - 1.03 (5) 1'-6" DEEP PLASTIC LAMINATE SHELVES ON ADJUSTABLE STANDARDS
 - 1.04 ALIGN SURFACE WITH ADJACENT SURFACE
 - 1.05 GROMMET HOLE IN COUNTERTOP IN FIELD
 - 1.06 TELEPHONE BACKBOARD
 - 1.07 GYPSUM BOARD FINISH ON SHELL AND CORE METAL STUDS PROVIDED BY OTHERS
 - 1.08 FIRE EXTINGUISHER AND BRACKET





GENERAL NOTES

- THE FOLLOWING WORK, INCLUDING SYSTEMS, DEVICES AND WIRING, IS NOT INCLUDED IN THE CONTRACT BUT MAY BE PROVIDED BY OTHERS:
 - TELEPHONE AND COMPUTER SYSTEMS
 - MEDICAL GAS SYSTEMS
 - PNEUMATIC TUBE SYSTEMS
 - SECURITY AND TIME CLOCK SYSTEMS
 - NURSE CALL / NURSE NOTIFICATION SYSTEMS
 - TOILET PAPER, TOWELS, SOAP DISPENSORS
 - CHART HOLDERS AND MAGAZINE RACKS
- JUNCTION BOX AND CONDUIT TO AN ACCESSIBLE CEILING SHALL BE PROVIDED FOR TELEPHONE / COMPUTER SYSTEMS
- JUNCTION BOX AND CONDUIT TO AN ACCESSIBLE CEILING MAY BE PROVIDED FOR SECURITY, NURSE CALL, NURSE NOTIFICATION, AND OTHER SYSTEMS, IF REQUESTED BY THE TENANT
- ALL FREESTANDING FURNITURE AND EQUIPMENT TO BE PROVIDED BY TENANT. FREESTANDING FURNITURE SHOWN FOR REFERENCE ONLY.
- GROMMET LOCATIONS TO BE FIELD COORDINATED WITH I.T. STAFF.

MECHANICAL NOTES

- PERIMETER ROOMS WILL BE ZONED TOGETHER AND SHALL BE CONDITIONED WITH ELECTRIC REHEAT COILS IN FAN POWERED VAV TERMINAL UNITS AND CONTROLLED WITH ONE THERMOSTAT
- INTERIOR ROOMS WILL BE ZONED TOGETHER AND SHALL BE CONDITIONED WITH SHUT-OFF FAN POWERED VAV TERMINAL UNITS AND CONTROLLED WITH ONE THERMOSTAT
- RETURN AIR SHALL BE THROUGH A PLENUM TYPE RETURN AIR LIGHT FIXTURE
- ROOFTOP MOUNTED CENTRAL EXHAUST SHALL BE PROVIDED FOR TOILET ROOMS

LEGEND

- | | | | |
|--|---|--|---|
| | DUPLEX RECEPTACLE MOUNTED 18" AFF | | TELEPHONE / COMPUTER JUNCTION BOX MOUNTED 18" AFF |
| | DUPLEX RECEPTACLE DEDICATED OUTLET | | SINGLE POLE SWITCH |
| | DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER | | DIMMER SWITCH |
| | DUPLEX RECEPTACLE - GFI MOUNTED ABOVE COUNTER | | DEDICATED SWITCH - SEE SHEET A11.2 FOR MORE INFO. |
| | QUADRIplex RECEPTACLE MOUNTED 18" AFF | | THREE WAY SINGLE POLE SWITCH |
| | VAV THERMOSTAT | | EQUIPMENT KEY NOTE SYMBOL - SEE SHEET A11.2 FOR DETAILS |

1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

Sheet
**Floor Plan -
Furnishings, Power
and Equipment
Locations**

Project
**MERCY HOSPITAL
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Sheet No.
A6.2

GENERAL NOTES

- HOLLOW METAL DOOR AND WINDOW FRAMES IN CORRIDOR WALLS SHALL BE PAINTED TO MATCH SHELL AND CORE HOLLOW METAL FRAMES
- ALL OTHER HOLLOW METAL DOOR AND WINDOW FRAMES IN TENANT SUITE SHALL BE PAINTED TO MATCH RUBBER BASE COLOR
- RUBBER FLOOR TRANSITION STRIP COLOR SHALL MATCH RUBBER BASE COLOR

RFS LEGEND

DESIGNATION	COLOR	MATERIAL
XX-X		
FLOORS	FIELD COLOR ACCENT OR BORDER COLOR	
WALLS	FIELD COLOR ACCENT OR BORDER COLOR	

INTERIOR FINISH LEGEND

CPT - CARPET

CPT-1 CAMBRIDGE, "KEW GARDENS III"
#36006 PORCELAIN SAGE

CT - CERAMIC TILE

CT-1 DALTILE, "VERANDA" #P505 SAND (SEALED)
CT-2 DALTILE (BASE), "VERANDA" #P505 SAND
BULL-NOSE EDGE (SEALED)

VB - VINYL COVE BASE

VB-1 JOHNSONITE, #57 FLAXEN

PT - PAINT

PT-1 BENJAMIN MOORE, "SEMI-GLOSS/SATIN"
#947, NAVAJO WHITE
PT-2 BENJAMIN MOORE, "SATIN" #956, PALACE WHITE
PT-3 BENJAMIN MOORE, "SATIN" #958, OCEAN BEACH
PT-4 BENJAMIN MOORE, "SATIN" #501, MESQUITE
PT-5 BENJAMIN MOORE, "SATIN" #836, SEA VIEW

VWC - VINYL WALLCOVERING

VWC-1 MAHARAM, "GLEAM" #398420-013 BAMBOO

SV - SHEET VINYL

SV-1 ARMSTRONG, "TIMBERLINE"
#33007 BEECH NATURAL (SEALED)
SV-2 FORBO, "SMARAGD", MARBLE #6376 (SEALED)

PL - PLASTIC LAMINATE

PL-1 WILSONART, #4807-60, MELON BRUSH (MATTE)
PL-2 NOT USED
PL-3 PIONITE, #AB121-S, OPAL IMPRESSION (SUEDE)
PL-4 WILSONART, #7909-60, FUSION MAPLE (MATTE)
PL-5 PIONITE, #WC421, OILED CHERRY (SUEDE)

SS - SOLID SURFACE

SS-1 DUPONT, "ZODIAQ" TOASTED ALMOND
SS-2 DUPONT, "ZODIAQ" BOREALIS BLUE

ACT - ACOUSTICAL CEILING CEILING

ACT-1 USG, "F FISSURED SL #132"

AP - ACRYLIC PANEL

AP-1 3-FORM, 1/2" THICK, DRIFT BLUE,
FRONT AND BACK FINISH - SANDSTONE

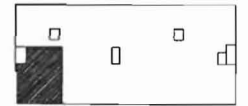
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		WALLS				CEILING
		FINISH	BASE	NORTH	SOUTH	EAST	WEST	
4100	CORRIDOR	CPT-1	CPT-1	WVC-1	WVC-1	WVC-1	WVC-1	ACT-1
4101	WAITING AREA	CPT-1	CPT-1	PT-1/ WVC-1	PT-1/ WVC-1	PT-1/ WVC-1	PT-1/ WVC-1	ACT-1
4102	PATIENT TOILET	CT-1	CT-2	PT-4	PT-2	PT-2	PT-2	ACT-1
4103	STORAGE AREA	SV-1	VB-1	PT-3	PT-3	PT-3	PT-3	ACT-1
4104	EXAM 3	SV-1	VB-1	PT-4	PT-2	PT-2	PT-2	ACT-1
4105	PROCEDURE ROOM	SV-2	VB-1	PT-2	PT-5	PT-2	PT-2	ACT-1
4106	EXAM 2	SV-1	VB-1	PT-2	PT-4	PT-2	PT-2	ACT-1
4107	EXAM 1	SV-1	VB-1	PT-2	PT-5	PT-2	PT-2	ACT-1
4108	PHYS. ASSISTANT WORK ROOM	CPT-1	CPT-1	PT-2	PT-2	PT-5	PT-2	ACT-1
4109	STAFF TOILET AND SHOWER	CT-1	CT-2	PT-2	PT-4	PT-2	PT-2	ACT-1
4110	PHYSICIAN WORK ROOM	CPT-1	CPT-1	PT-2	PT-2	PT-2	PT-2	ACT-1
4111	STAFF LOUNGE	SV-1	VB-1	PT-3	PT-3	PT-3	PT-3	ACT-1
4112	OFFICE MANAGER	CPT-1	CPT-1	PT-2	PT-2	PT-4	PT-2	ACT-1
4113	PHONE/ELEC/I.T./STORAGE	SV-1	VB-1	PT-3	PT-3	PT-3	PT-3	ACT-1
4114	BUSINESS OFFICE	CPT-1	CPT-1	PT-3	PT-3	PT-3	PT-3	ACT-1
4114A	COAT CLOSET	CPT-1	CPT-1	PT-1	PT-1	PT-1	PT-1	ACT-1
4114B	STORAGE	CPT-1	CPT-1	PT-1	PT-1	PT-1	PT-1	ACT-1

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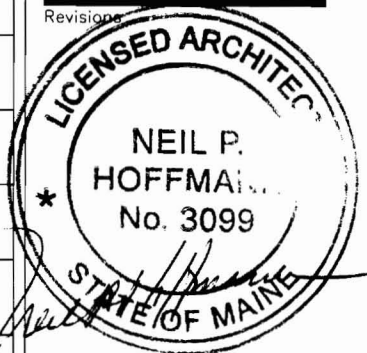
Key Plan



NORTH



Revisions



Sheet

Room Finish
Schedule and
Details

Project

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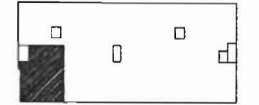
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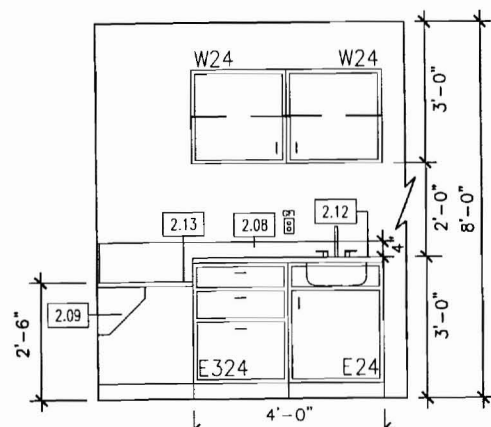
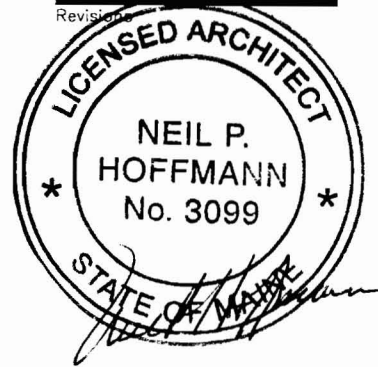
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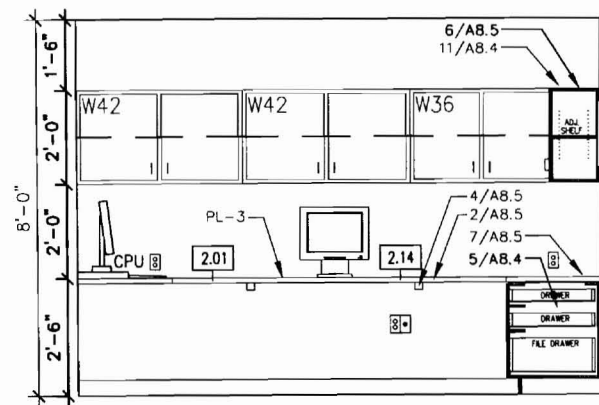
NORTH



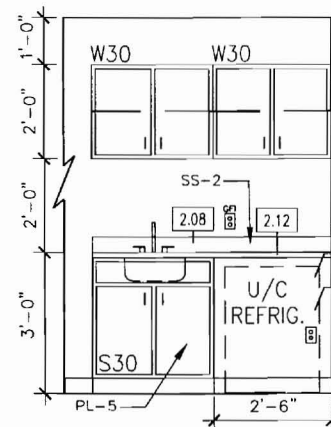
Revisions



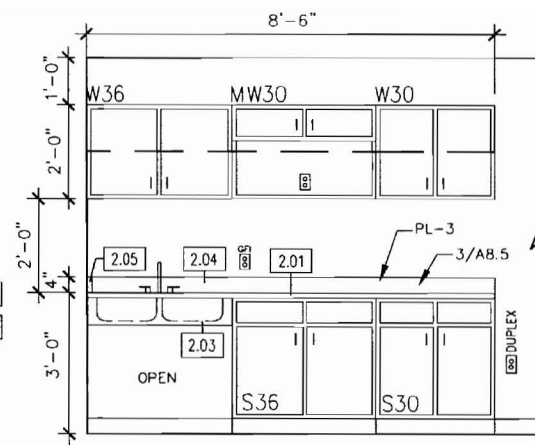
1 EXAM CASEWORK TYP.
SCALE: 1/4" = 1'-0"



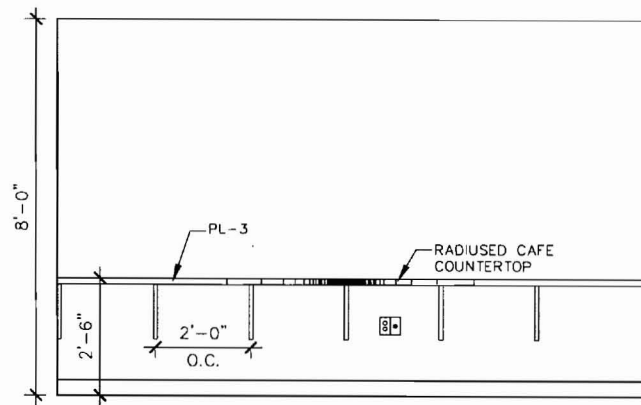
2 PHYS. ASSISTANT WORK ROOM
SCALE: 1/4" = 1'-0"



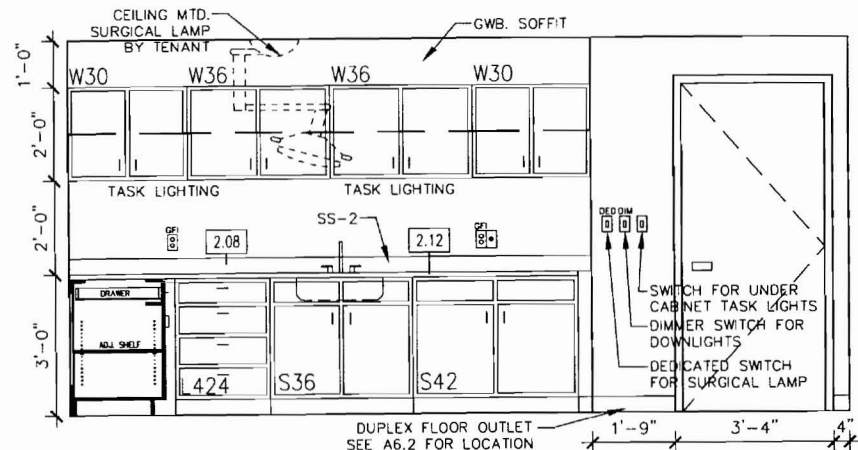
3 PHYS. WORK ROOM
SCALE: 1/4" = 1'-0"



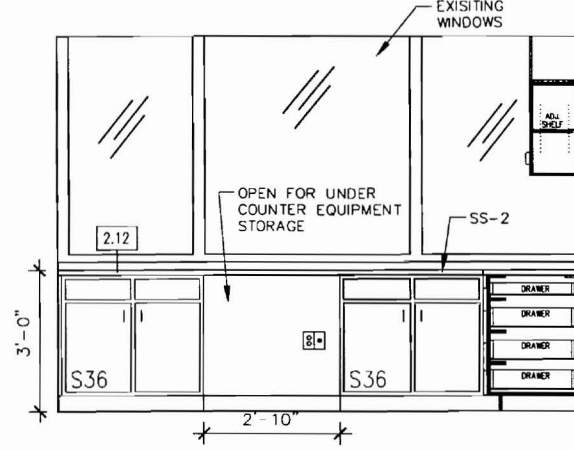
4 STAFF LOUNGE CASEWORK
SCALE: 1/4" = 1'-0"



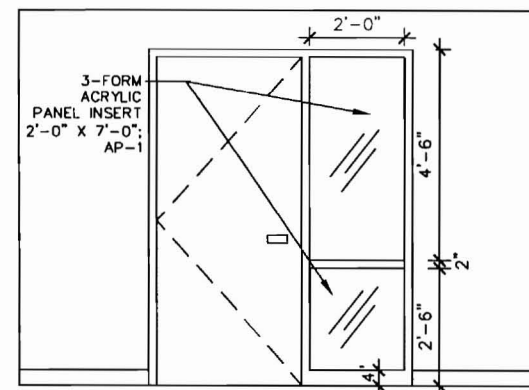
5 STAFF LOUNGE COUNTERTOP
SCALE: 1/4" = 1'-0"



6 PROCEDURE ROOM CASEWORK
SCALE: 1/4" = 1'-0"

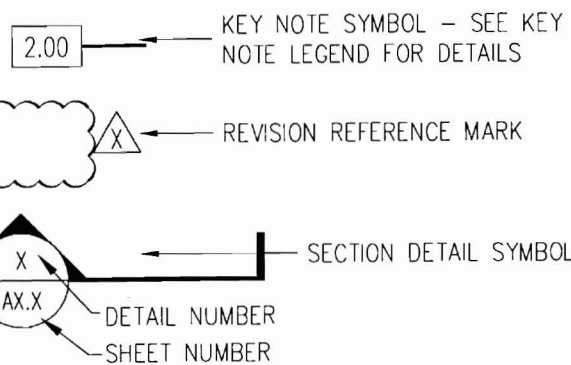


7 PROCEDURE ROOM CASEWORK
SCALE: 1/4" = 1'-0"



8 WAITING ROOM EXIT
SCALE: 1/4" = 1'-0"

LEGEND



KEY NOTE LEGEND

2.01	PLASTIC LAMINATE COUNTERTOP	2.11	UNDERCOUNTER REFRIGERATOR SPACE
2.02	3 1/2" PLASTIC LAMINATE APRON	2.12	SOLID SURFACE COUNTERTOP
2.03	3 1/2" PLASTIC LAMINATE VALANCE	2.13	3' X 2' SOLID SURFACE WRITING SURFACE
2.04	4" PLASTIC LAMINATE BACKSPLASH	2.14	GROMMET HOLE IN COUNTERTOP
2.05	4" PLASTIC LAMINATE SIDESPLASH		
2.06	PLASTIC LAMINATE END PANEL		
2.07	PLASTIC LAMINATE FILLER PANEL		
2.08	4" SOLID SURFACE BACK AND SIDESPLASH		
2.09	1'-0" PLASTIC LAMINATE SUPPORT BRACKET		
2.10	SLIDING GLASS RECEPTION COUNTER		

GENERAL NOTES

1. PLASTIC LAMINATE CABINETS SHALL BE PL-4 VERTICAL SURFACES, U.N.O.
2. SOLID SURFACE COUNTERTOPS, BACK AND SIDE SPLASHES SHALL BE SS-1, U.N.O.
3. PROVIDE END SPLASH AT WALL ON COUNTERTOPS WITH BACKSPLASHES AND SINKS.
4. DIMENSIONS ARE FACE TO FACE (NOMINAL) OF FINISH MATERIAL, UNLESS NOTED OTHERWISE.
5. FOR DRAWING CLARITY, FREESTANDING FURNITURE NOT INDICATED.

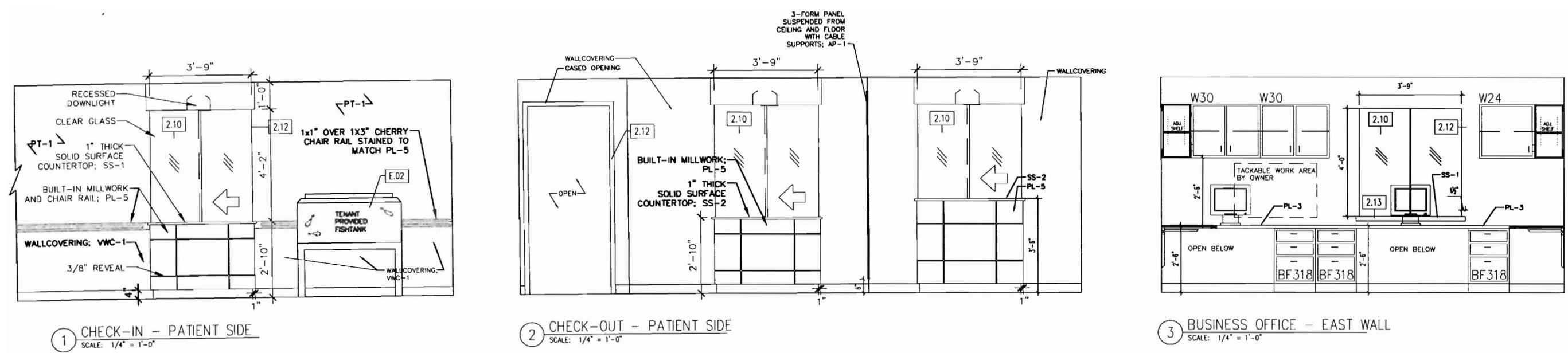
Sheet
**Interior Room
Elevations**

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Portland Surgical
Associates**

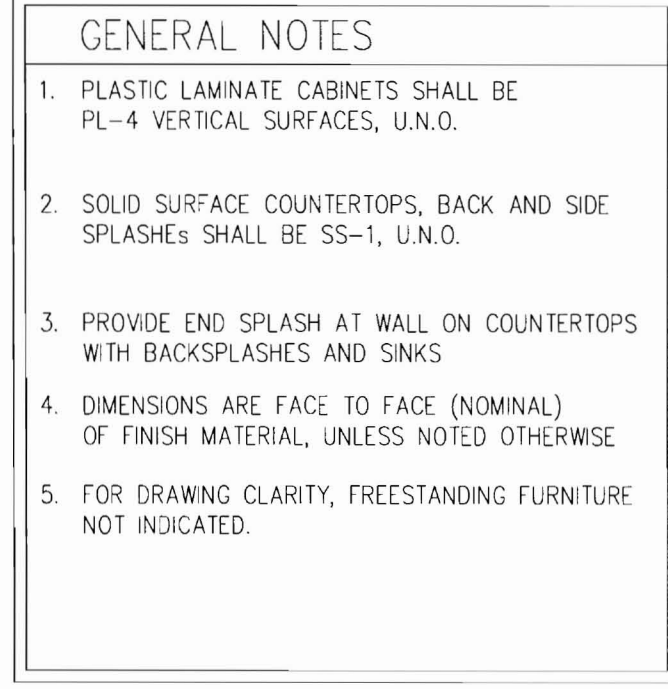
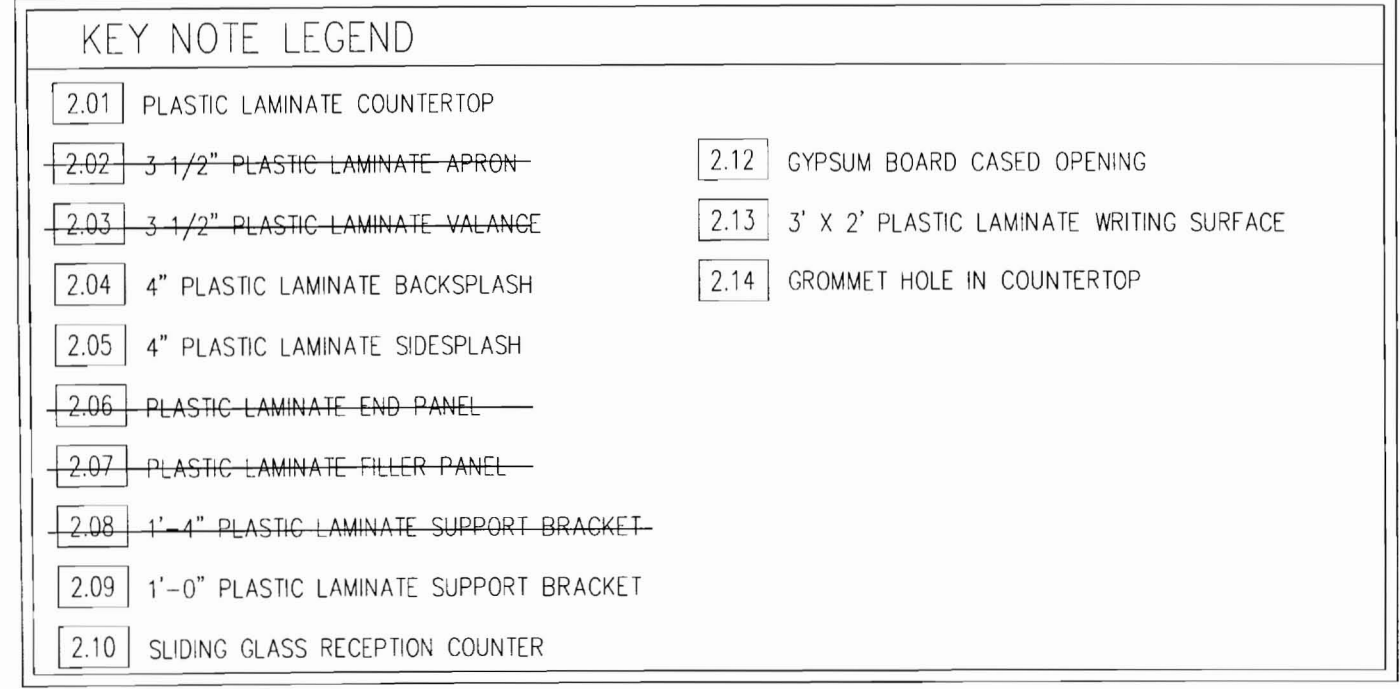
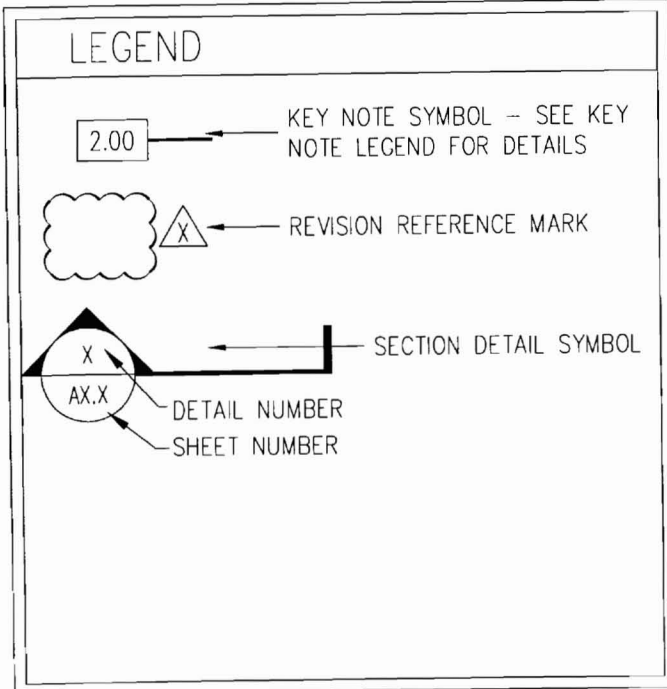
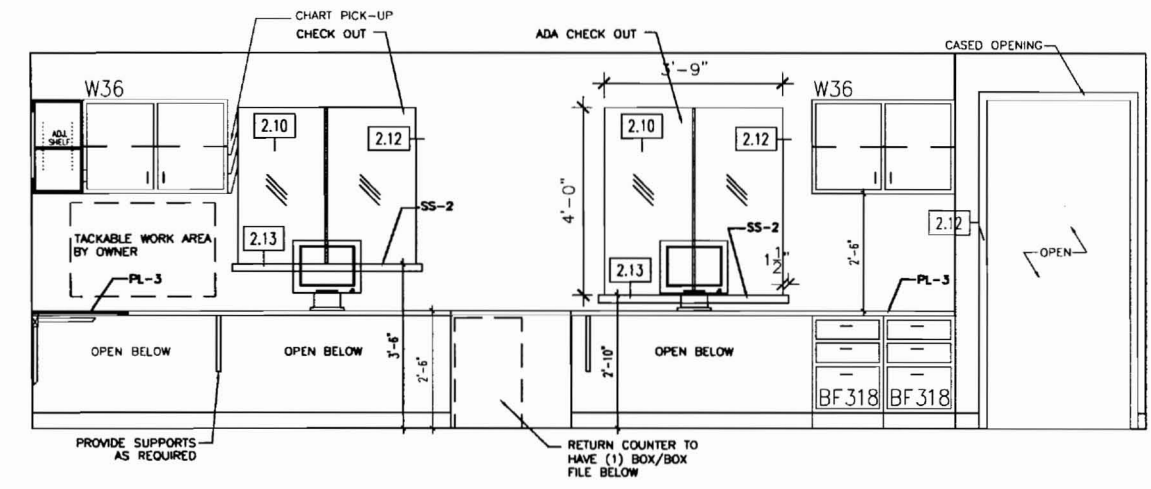
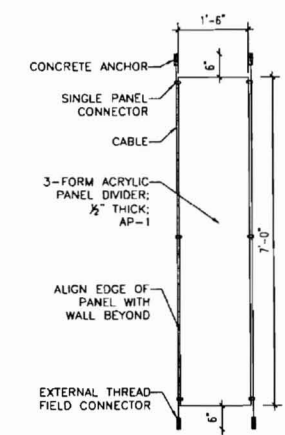
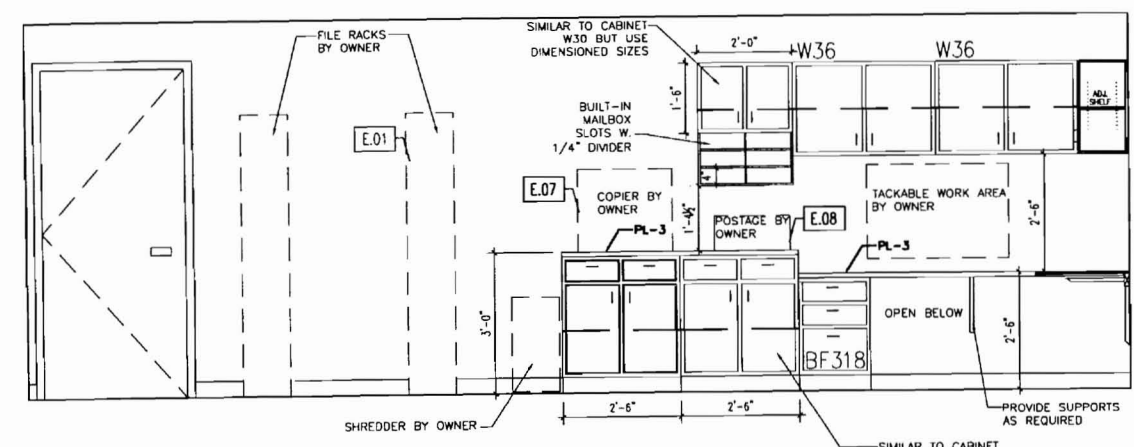
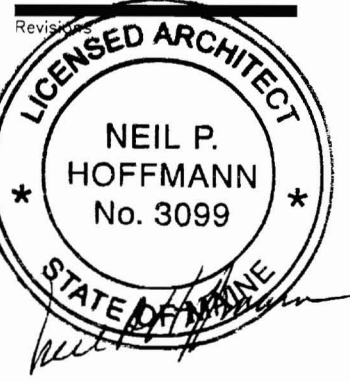
Suite 420
Date
November 20, 2007

Project No.
F07-5256.00

Sheet No.
A8.1



Key Plan



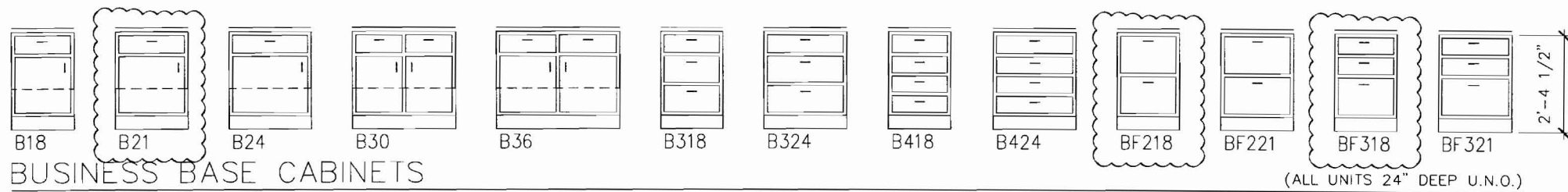
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**Interior Room
Elevations**

Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

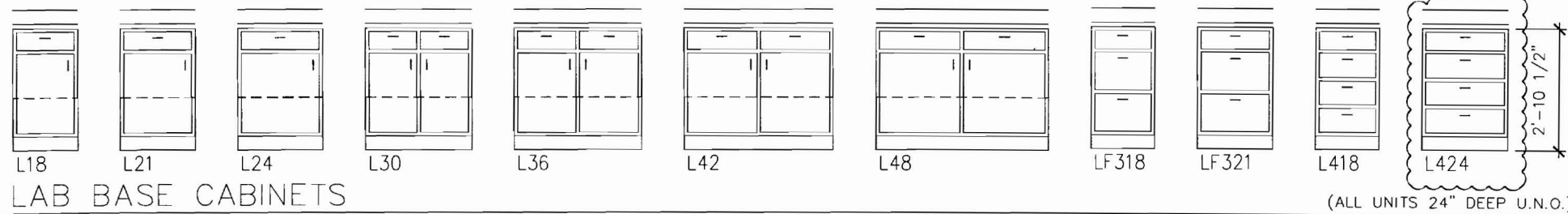
Suite 420
Date
November 20, 2007

Project No.
F07-5256.00

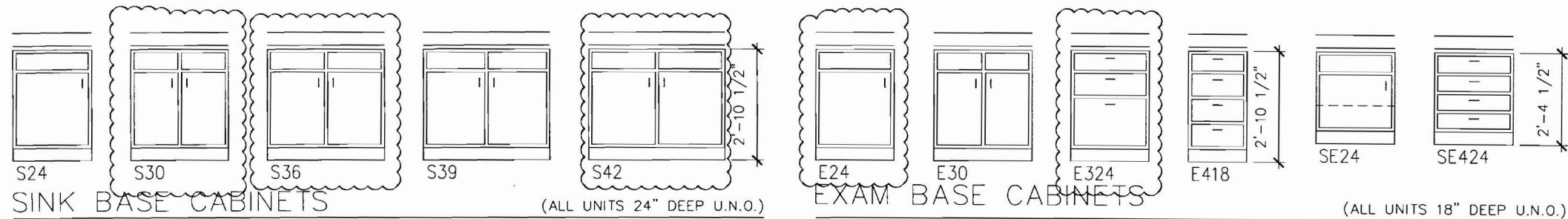
Sheet No.
A8.2



BUSINESS BASE CABINETS



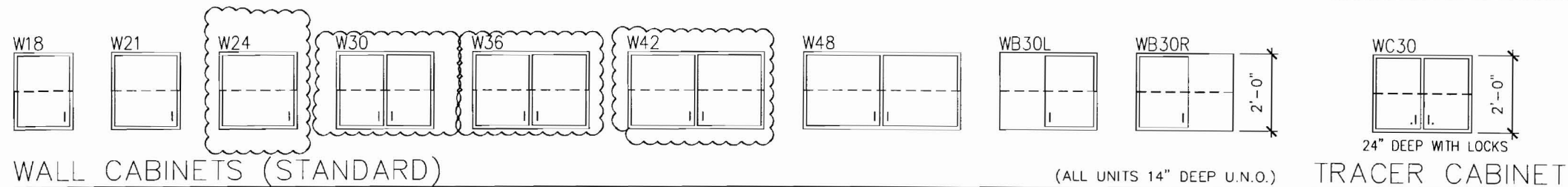
LAB BASE CABINETS



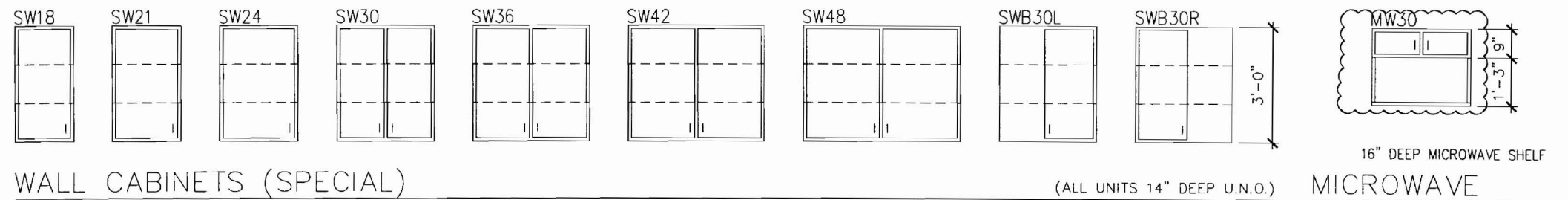
SINK BASE CABINETS

EXAM BASE CABINETS

TRACER CABINET



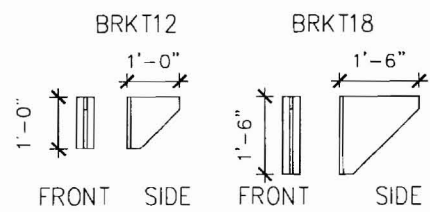
WALL CABINETS (STANDARD)



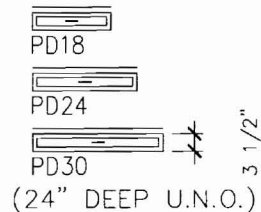
WALL CABINETS (SPECIAL)

MICROWAVE

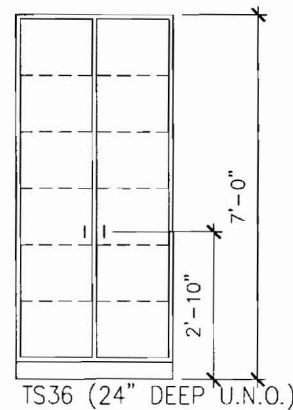
 INDICATES DETAIL WAS USED



SUPPORT BRACKETS



PENCIL DRAWERS
(24" DEEP U.N.O.)



TALL STORAGE

GENERAL NOTES

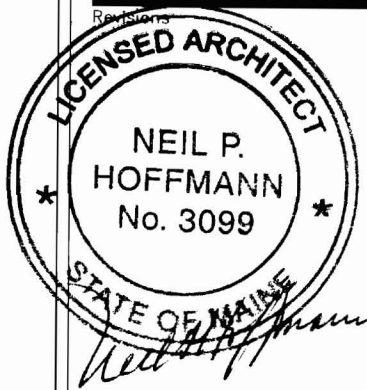
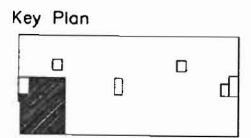
1. ALL CABINET AND COUNTERTOP MATERIAL IS 3/4" THICK UNLESS NOTED OTHERWISE
2. THE BOTTOM OF ALL DRAWERS IS 5/16" (8MM) ABOVE EITHER THE CABINET BOTTOM OR THE HORIZONTAL BRACES.
3. WALL AND BASE CABINET BACKS AND DRAWER BOTTOMS ARE 1/4" THICK. ALL OTHER CABINET AND COUNTER TOP COMPONENTS ARE 3/4" THICK UNLESS NOTED OTHERWISE.
4. ALL EXPOSED COUNTERTOP CORNERS ARE TO BE RADIUSD

LAB BASE CABINETS

- B324-- BUSINESS DRAWER BASE CABINET
WIDTH IN INCHES
NO. OF DRAWERS
- BF218-- BUSINESS FILE DRAWER BASE CABINET
WIDTH IN INCHES
NO. OF DRAWERS
- L324-- LAB DRAWER BASE CABINET
WIDTH IN INCHES
NO. OF DRAWERS
- LF318-- LAB FILE DRAWER BASE CABINET
WIDTH IN INCHES
NO. OF DRAWERS
- S24-- SINK BASE CABINET
WIDTH IN INCHES
- E24-- EXAM BASE CABINET
WIDTH IN INCHES
- E424-- EXAM BASE CABINET
WIDTH IN INCHES
NO. OF DRAWERS
- SE24-- SPECIAL EXAM BASE CABINET
WIDTH IN INCHES
- SE424-- SPECIAL EXAM BASE CABINET
WIDTH IN INCHES
NO. OF DRAWERS
- W18-- WALL CABINET
WIDTH IN INCHES
- SW18-- SPECIAL WALL CABINET
WIDTH IN INCHES
- PD24-- PENCIL DRAWER
WIDTH IN INCHES
- TS36-- TALL STORAGE CABINET
- WB30L-- LEFT BLIND CORNER WALL CABINET
- WB30R-- RIGHT BLIND CORNER WALL CABINET
- WC30-- TRACER COMPUTER WALL CABINET
- MW30-- MIRCORWAVE WALL CABINET

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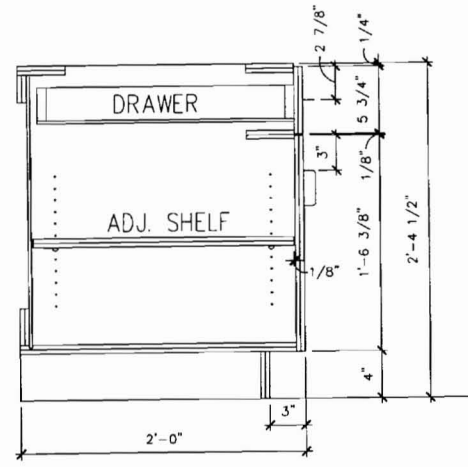
Sheet
Standard
Casework
Elevations

Project
MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates

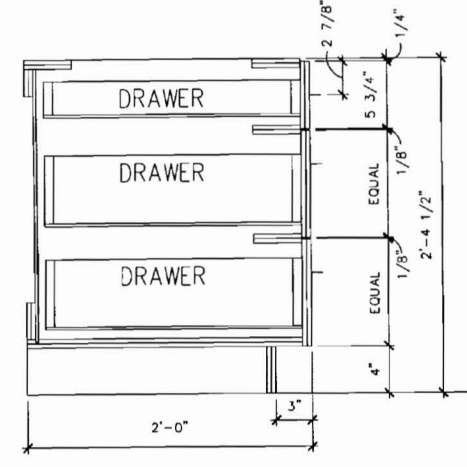
Suite 420
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November 20, 2007

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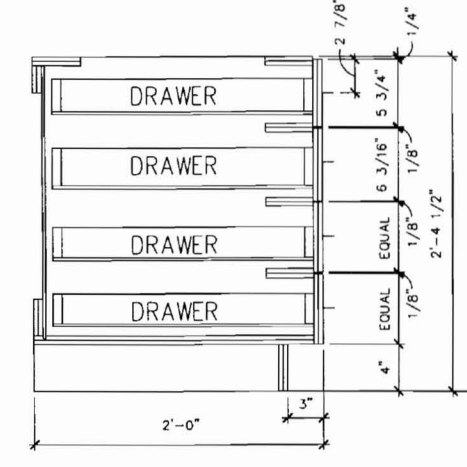
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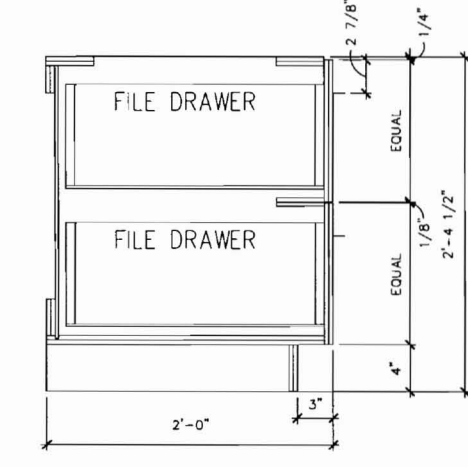
1 DOOR CABINET - BUSINESS
 SCALE: 3/4" = 1'-0"



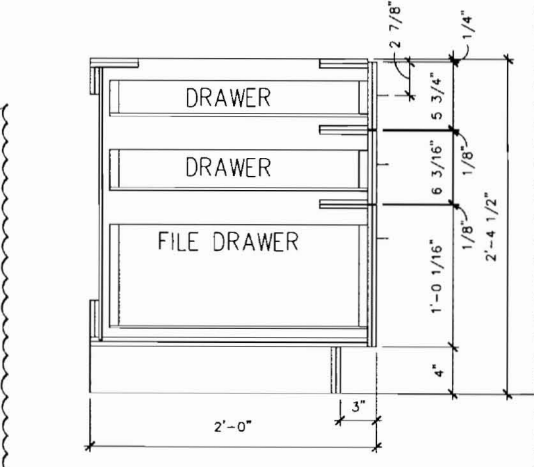
2 3 DRAWER - BUSINESS
 SCALE: 3/4" = 1'-0"



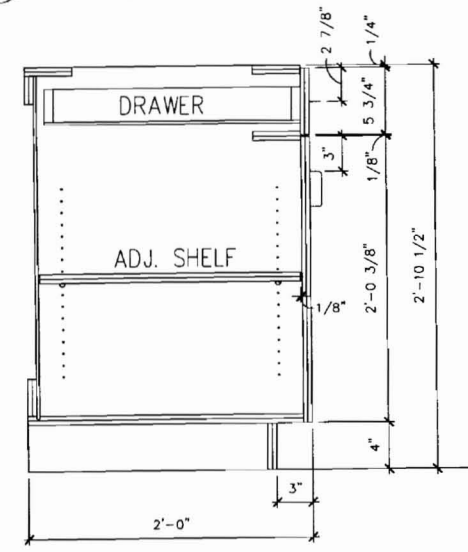
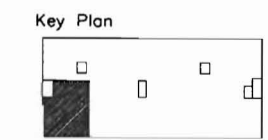
3 4 DRAWER - BUSINESS
 SCALE: 3/4" = 1'-0"



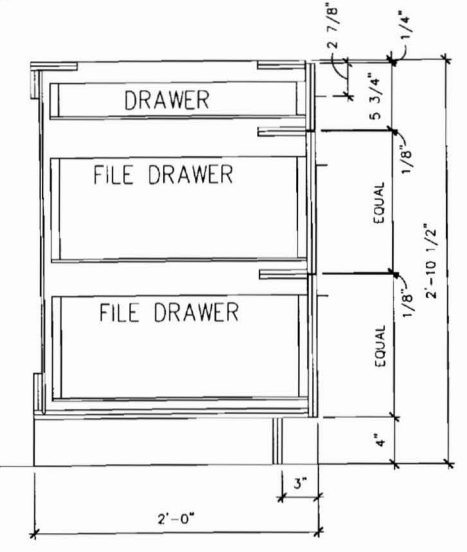
4 DOUBLE FILE - BUSINESS
 SCALE: 3/4" = 1'-0"



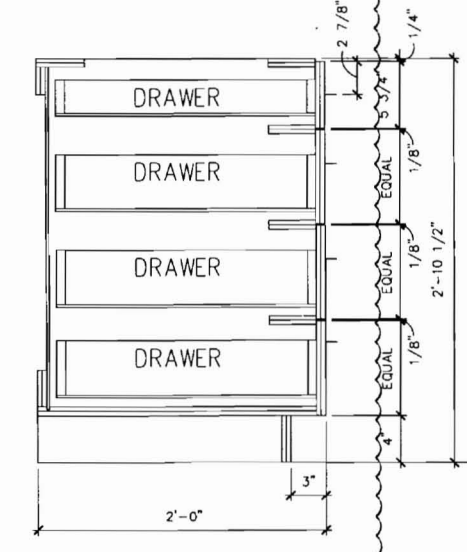
5 SINGLE FILE - BUSINESS
 SCALE: 3/4" = 1'-0"



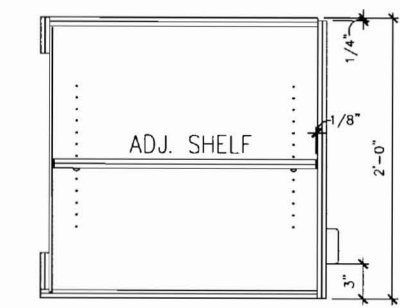
6 DOOR CABINET - LAB
 SCALE: 3/4" = 1'-0"



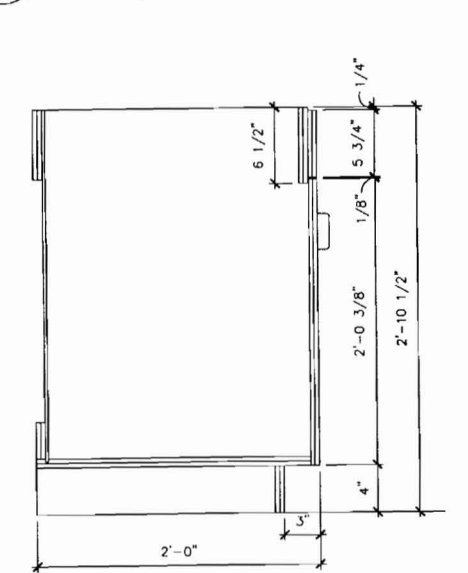
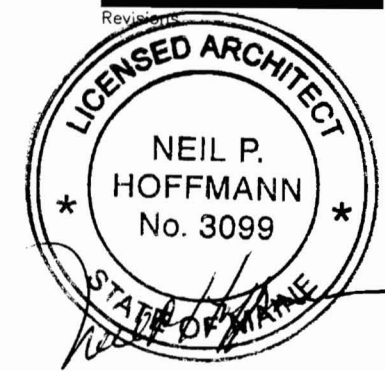
7 3 DRAWER - LAB
 SCALE: 3/4" = 1'-0"



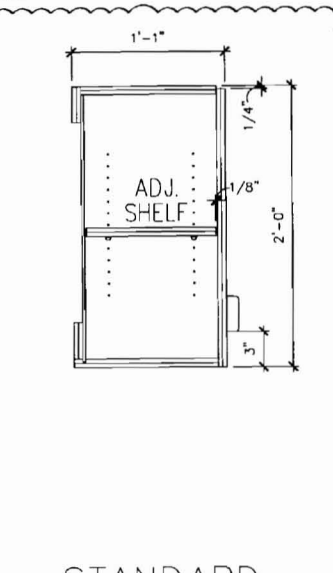
8 4 DRAWER - LAB
 SCALE: 3/4" = 1'-0"



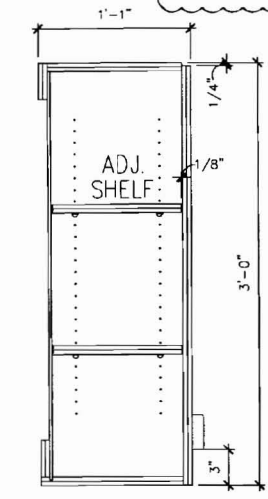
9 TRACER COMPUTER SPECIAL WALL CABINET
 SCALE: 3/4" = 1'-0"



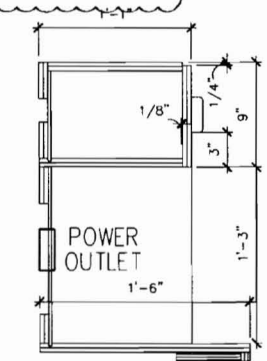
10 SINK BASE CABINET
 SCALE: 3/4" = 1'-0"



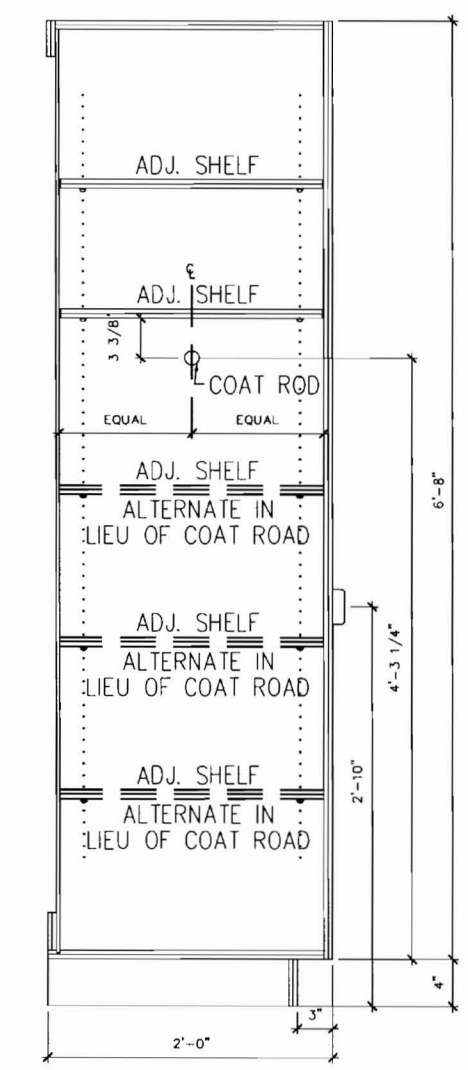
11 STANDARD WALL CABINET
 SCALE: 3/4" = 1'-0"



12 TALL WALL CABINET
 SCALE: 3/4" = 1'-0"



13 MICROWAVE WALL CABINET
 SCALE: 3/4" = 1'-0"



14 TALL STORAGE CABINET
 SCALE: 3/4" = 1'-0"

INDICATES DETAIL WAS USED

GENERAL NOTES

1. ALL CABINET AND COUNTERTOP MATERIAL IS 3/4" THICK UNLESS NOTED OTHERWISE
2. THE BOTTOM OF ALL DRAWERS IS 5/16" (8MM) ABOVE EITHER THE CABINET BOTTOM OR THE HORIZONTAL BRACES.
3. WALL AND BASE CABINET BACKS AND DRAWER BOTTOMS ARE 1/4" THICK. ALL OTHER CABINET AND COUNTERTOP COMPONENTS ARE 3/4" THICK UNLESS NOTED OTHERWISE.
4. ALL EXPOSED COUNTERTOP CORNERS ARE TO BE RADIUSUED

Sheet
Casework Sections

Project
**MERCY HOSPITAL
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 Portland, Maine
 Portland Surgical Associates**

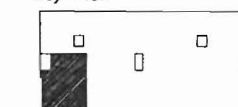
Suite 420

Date
November 20, 2007

Project No.
F07-5256.00

Sheet No.
A8.4

Key Plan



NORTH



Revisions



Sheet

**Casework and
Countertop
Details**

Project

**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

Suite 420

Date

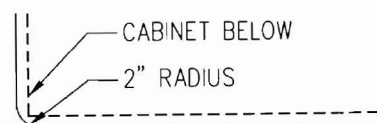
November 20, 2007

Project No.

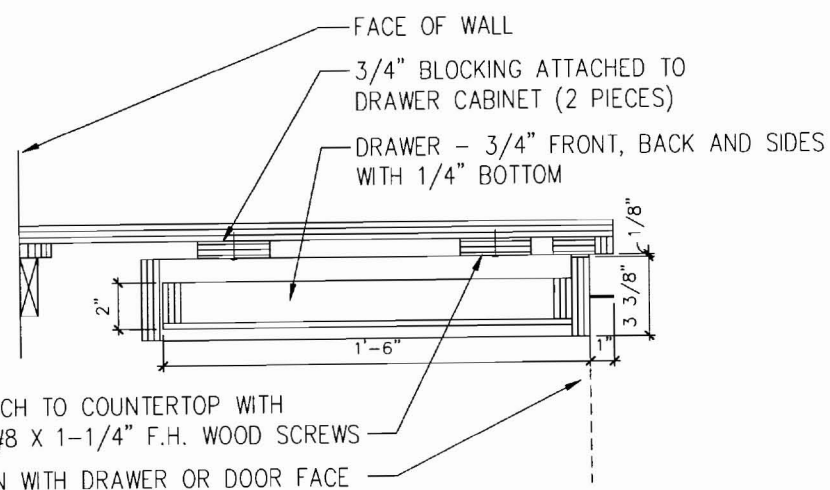
F07-5256.00

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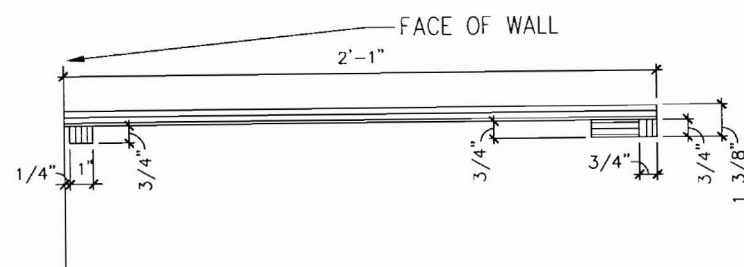
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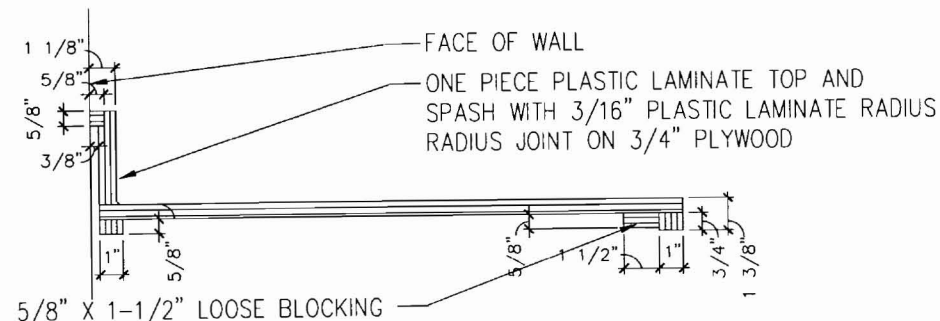
1 COUNTERTOP PLAN
SCALE: 1 1/2" = 1'-0"



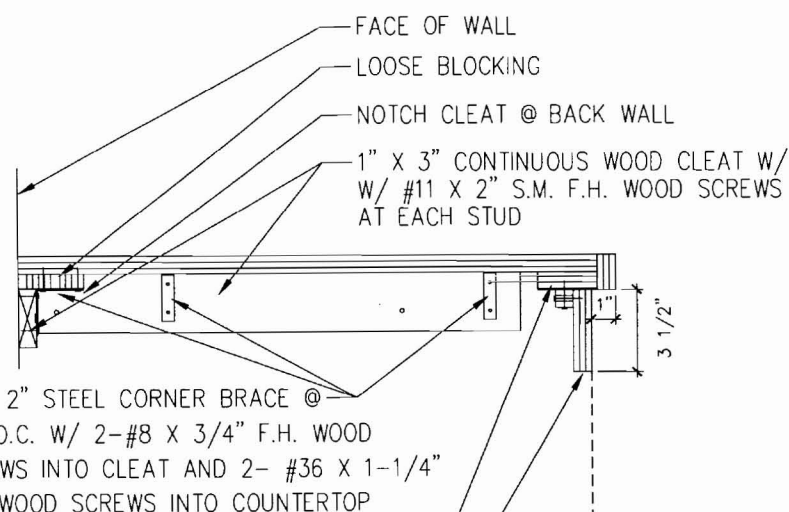
2 PENCIL DRAWER
SCALE: 1 1/2" = 1'-0"



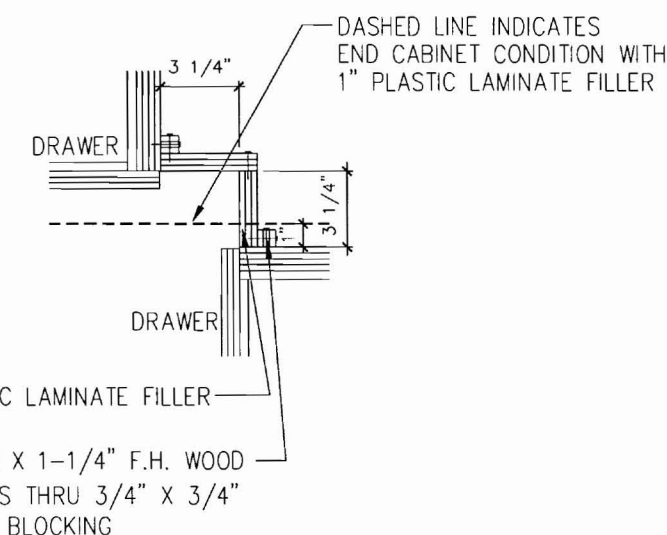
3 TYPICAL BUSINESS COUNTERTOP
SCALE: 1 1/2" = 1'-0"



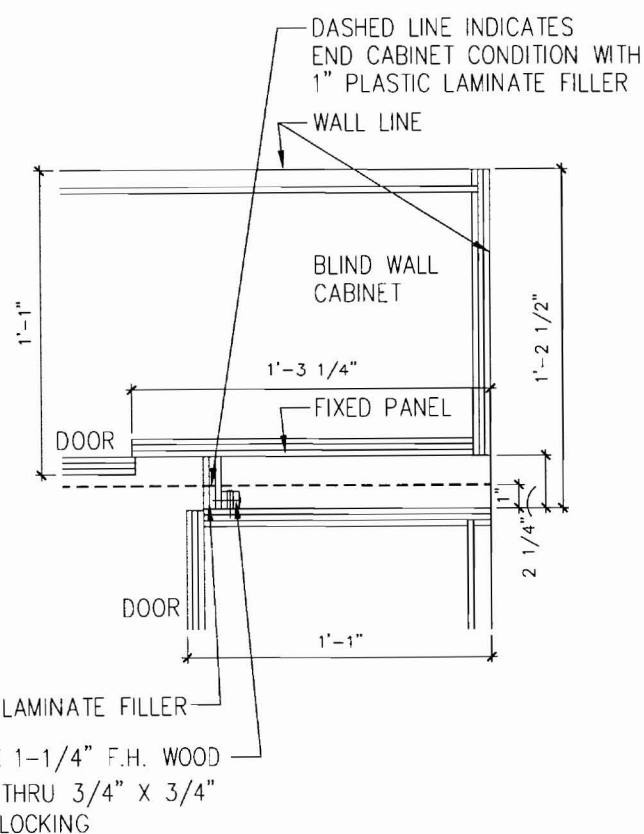
4 TYPICAL SINK COUNTERTOP
SCALE: 1 1/2" = 1'-0"



5 WALL BRACE / APRON
SCALE: 1 1/2" = 1'-0"



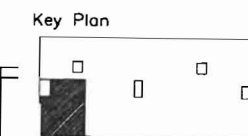
7 TYPICAL LOWER CABINET CORNER DETAIL
SCALE: 1 1/2" = 1'-0"



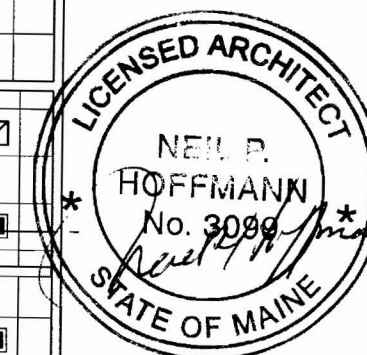
6 TYPICAL UPPER CABINET CORNER DETAIL
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES

- ALL CABINET AND COUNTERTOP MATERIAL IS 3/4" THICK UNLESS NOTED OTHERWISE
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- ALL EXPOSED COUNTERTOP CORNERS ARE TO BE RADIUSUED



Revisions



Sheet
**Reflected
Ceiling Plan**

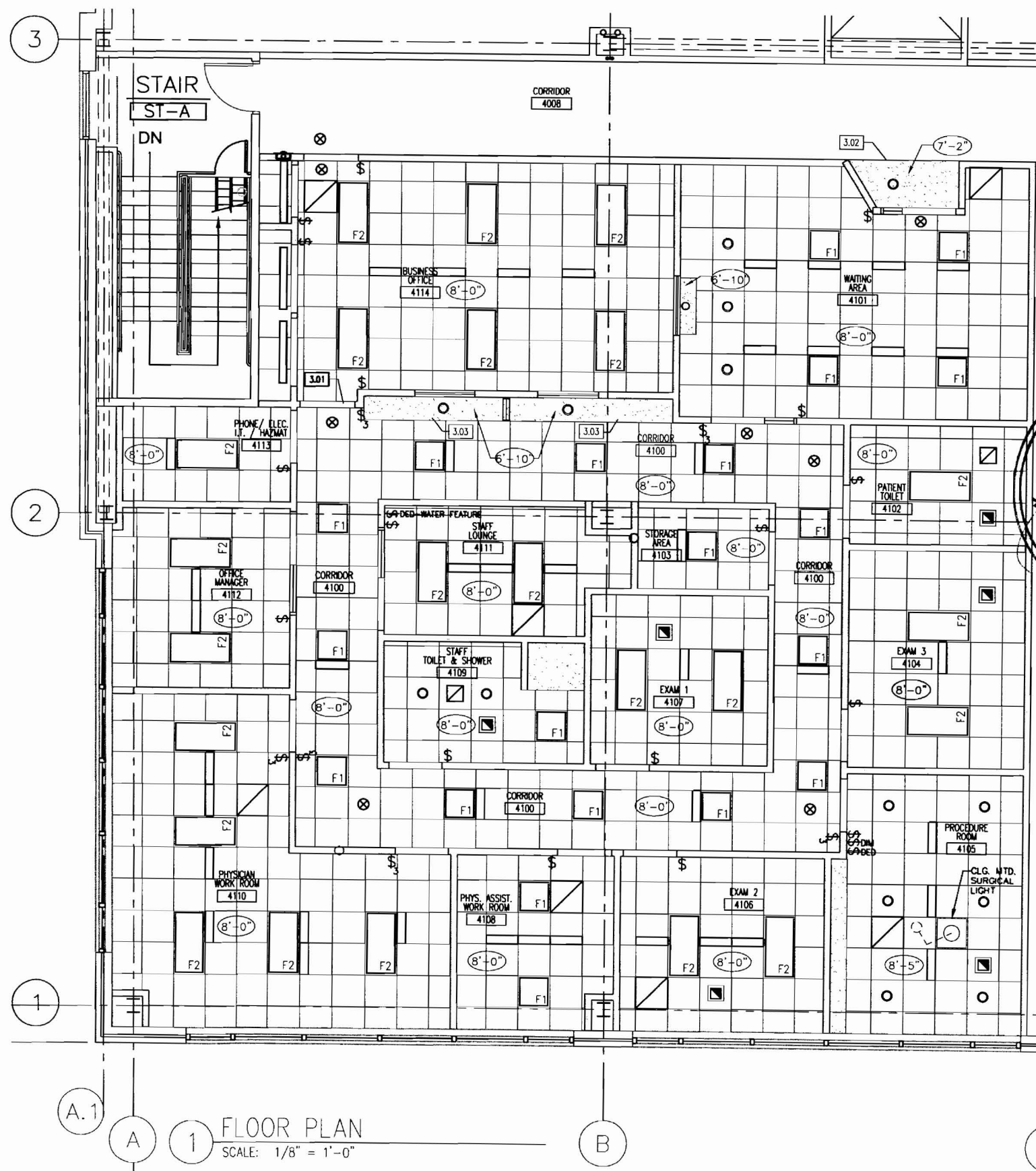
Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

Suite 420

Date
November 20, 2007

Project No.
F07-5256.00

Sheet No.
A9.1



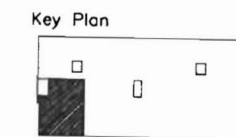
FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY NOTE LEGEND		LEGEND	
3.01	7'-2" CASED OPENING	ROOM NAME	ROOM NAME / NUMBER
3.02	7'-2" GYPSUM BOARD SOFFIT	xxx	
3.03	6'-10" GYPSUM BOARD SOFFIT		
			REVISION REFERENCE MARK
			CEILING HEIGHT AFF
			ACOUSTICAL TILE CEILING
			SUSPENDED GYPSUM BOARD CEILING OR SOFFIT

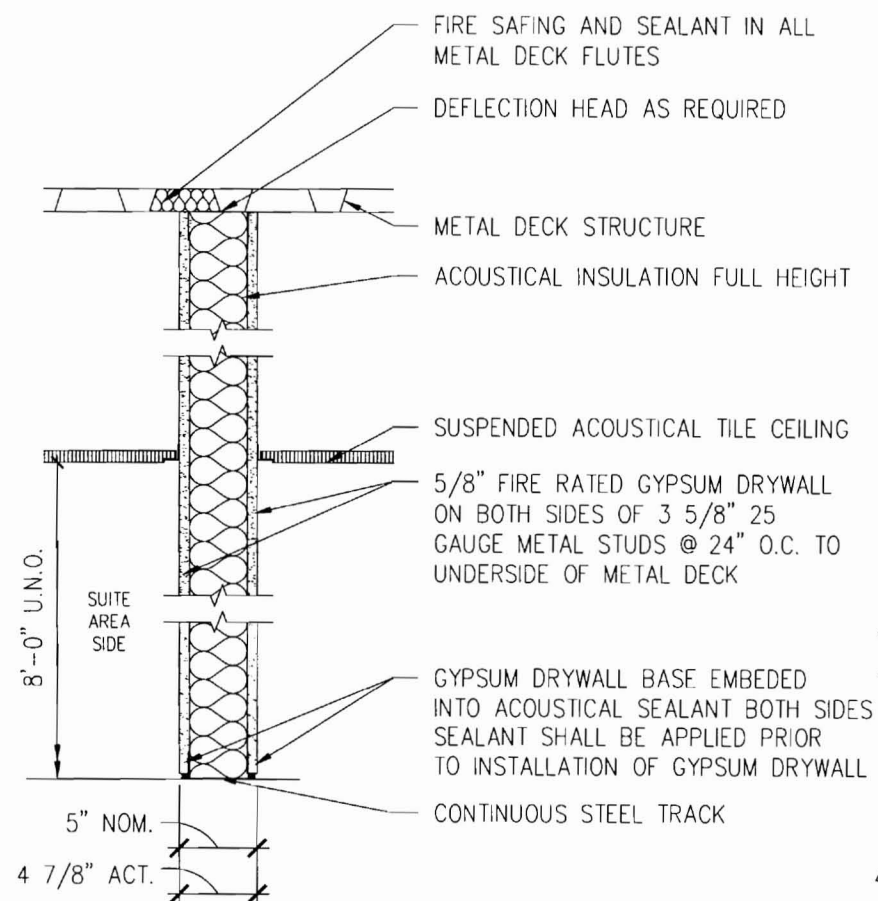
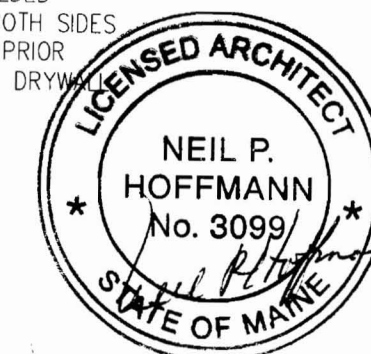
LEGEND		LEGEND	
	2' x 4' FLUORESCENT LIGHT WITH PARABOLIC LENS		SINGLE POLE SWITCH
	2' x 2' FLUORESCENT LIGHT WITH PARABOLIC LENS		DIMMER SWITCH
	INCANDESCENT CAN LIGHT		DEDICATED SWITCH - SEE SHEET A11.2 FOR MORE INFO.
	EXIT SIGNS - SEE ELEC. DWGS.		THREE WAY SINGLE POLE SWITCH
	EXHAUST FAN		
	FLUORESCENT LIGHT STRIP		
	VARIOUS HVAC DIFFUSERS - SEE MECH. DWGS.		

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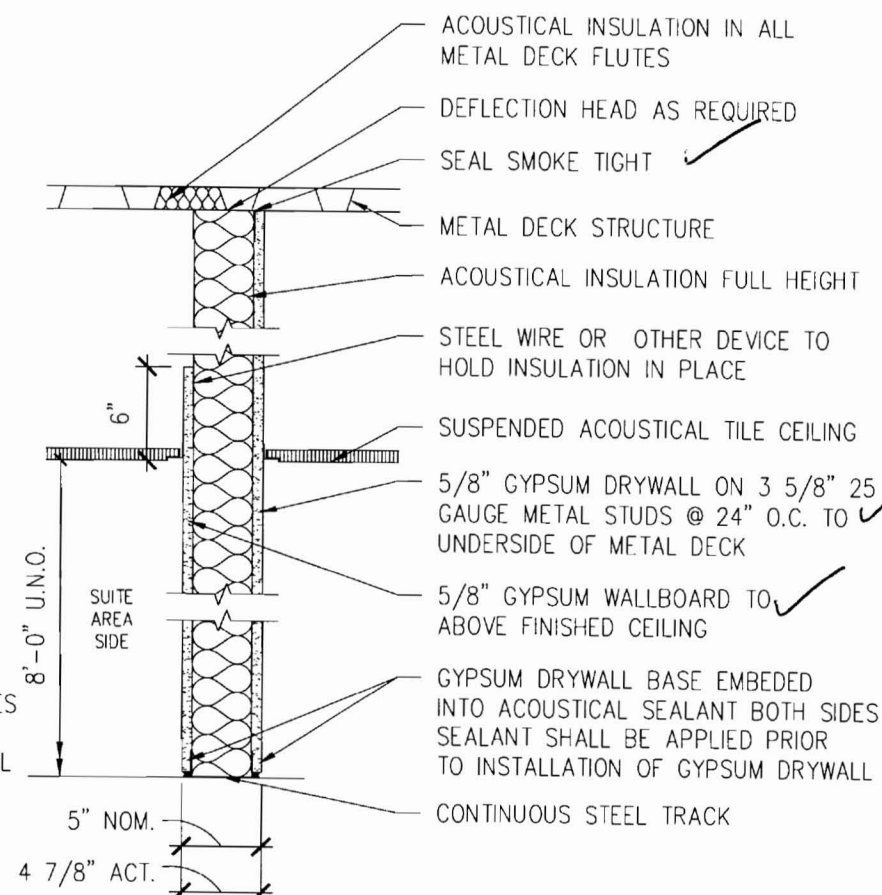
839 North Jefferson Street
Milwaukee, Wisconsin 53202
Telephone: (414) 277-0500
Facsimile: (414) 277-1055



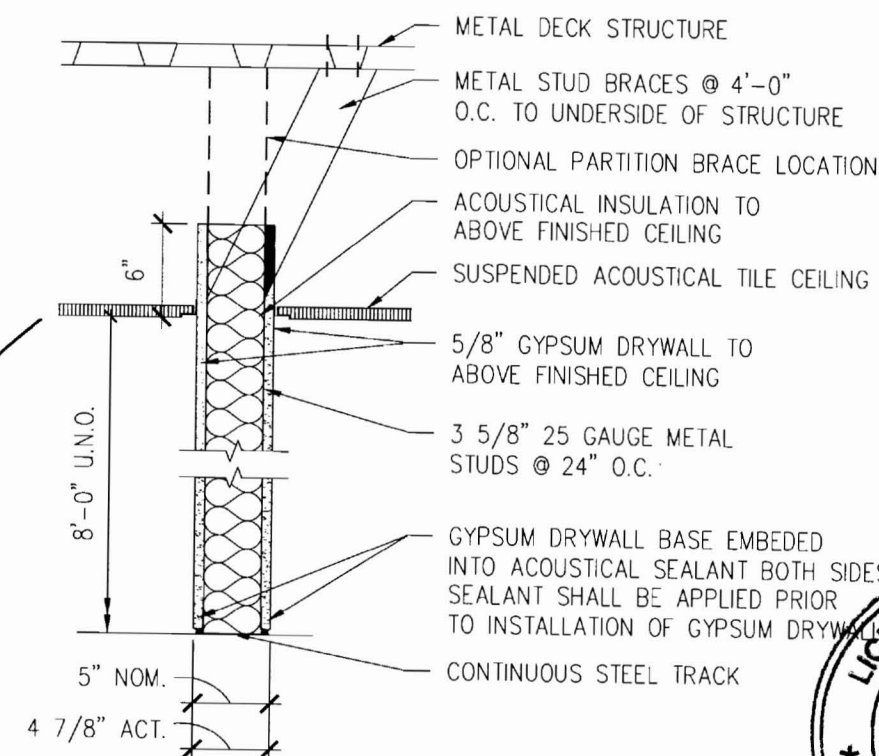
Revisions



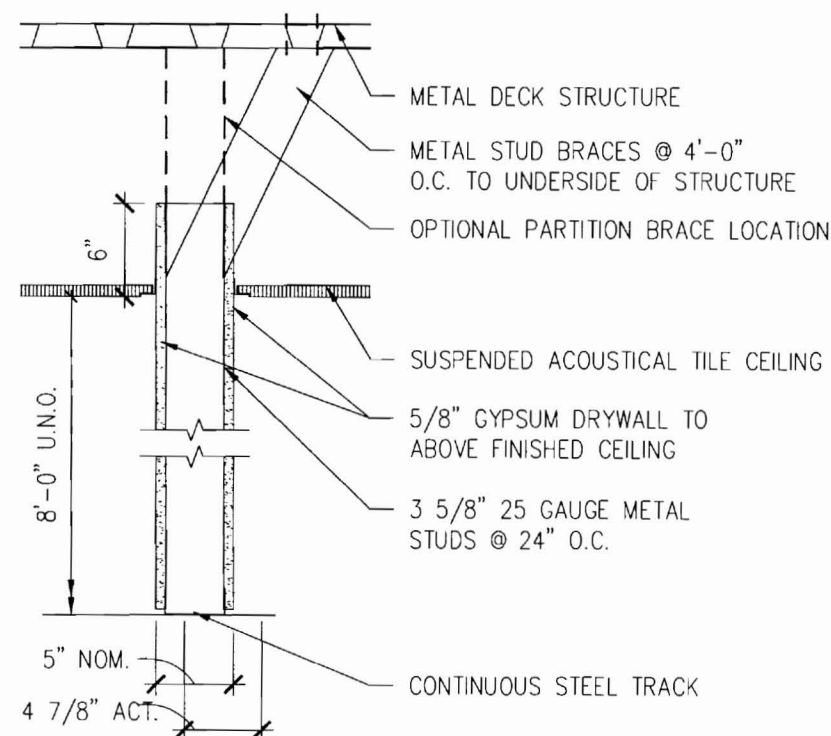
(B) ONE HOUR RATED PARTITION
SCALE: 1" = 1'-0" MUST MEET UL NO. U465 OR EQUAL



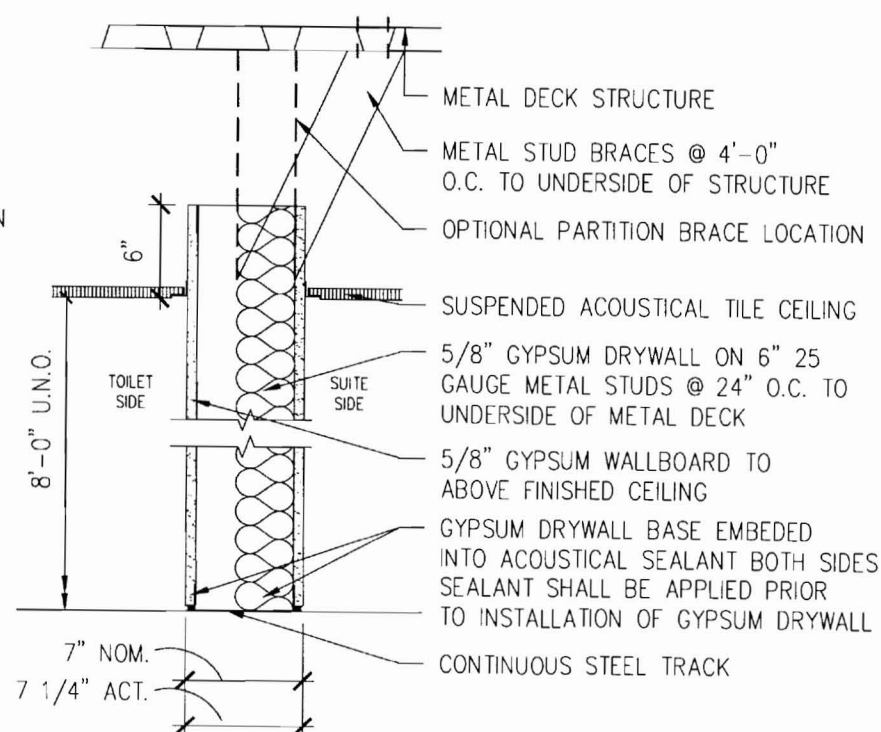
(C) FULL HEIGHT PARTITION
SCALE: 1" = 1'-0"



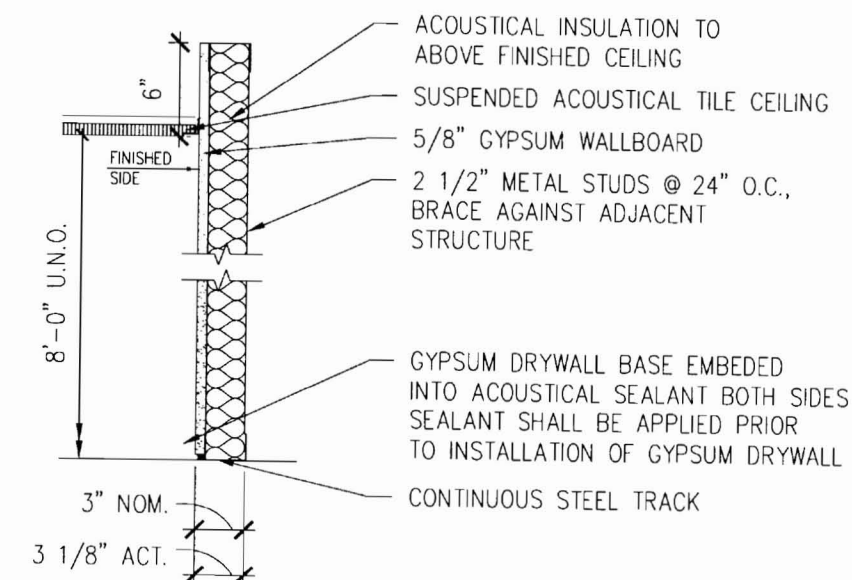
(F) CEILING HEIGHT INSULATED PARTITION
SCALE: 1" = 1'-0"



(G) CEILING HEIGHT PARTITION
SCALE: 1" = 1'-0"



(H) FULL HEIGHT CHASE PARTITION
SCALE: 1" = 1'-0"



(J) INSULATED FURRING PARTITION
SCALE: 1" = 1'-0"

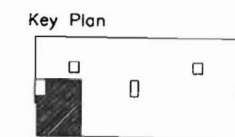
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**Partition Types
and Details**

Project
**MERCY HOSPITAL
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Portland, Maine
Portland Surgical
Associates**

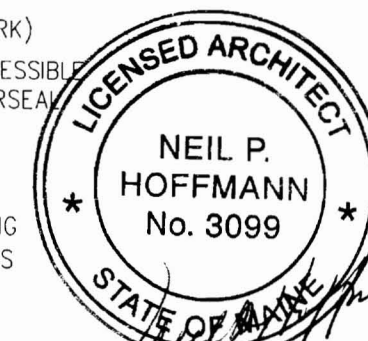
Suite 420
Date
November 20, 2007

Project No.
F07-5256.00

Sheet No.
A10.1



Revisions



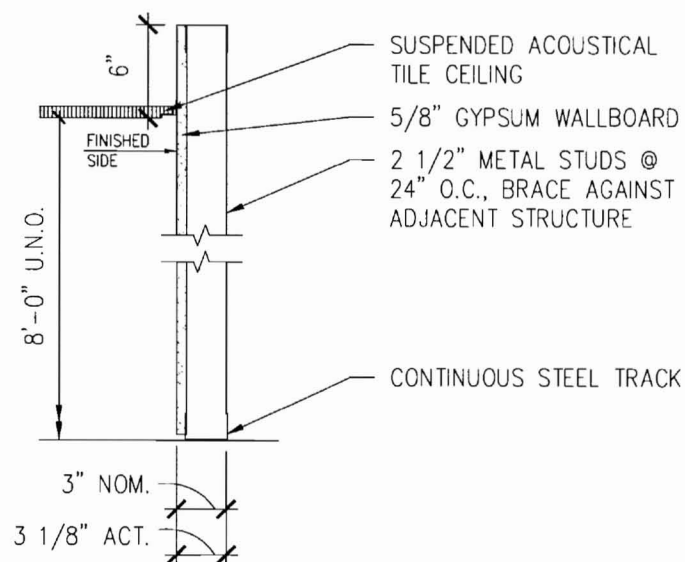
Sheet
**Partition Types
and Details**

Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

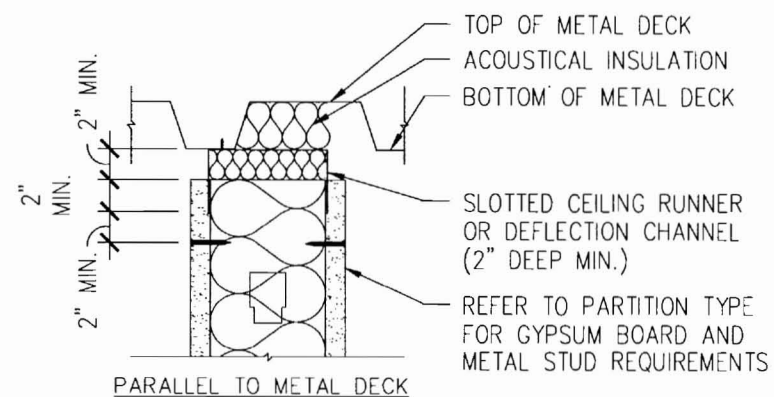
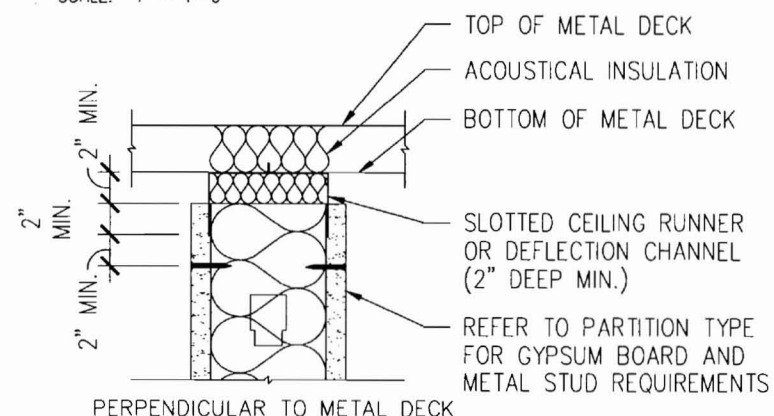
Suite 420
Date
November 20, 2007

Project No.
F07-5256.00

Sheet No.
A10.2



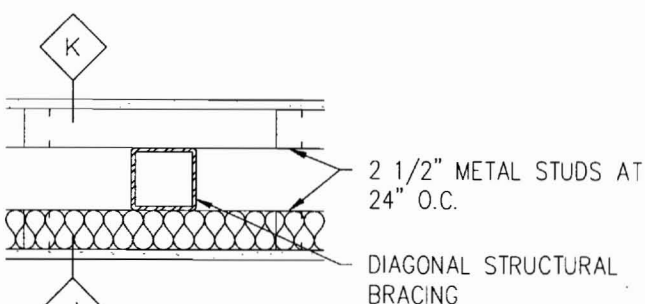
K FURRING PARTITION
SCALE: 1" = 1'-0"



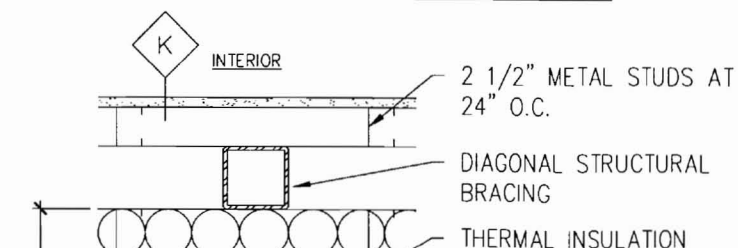
4 NON-RATED DEFLECTION HEAD
SCALE: 1" = 1'-0"

DETAIL NOT USED

L LEAD LINED INSULATED PARTITION
SCALE: 1" = 1'-0"

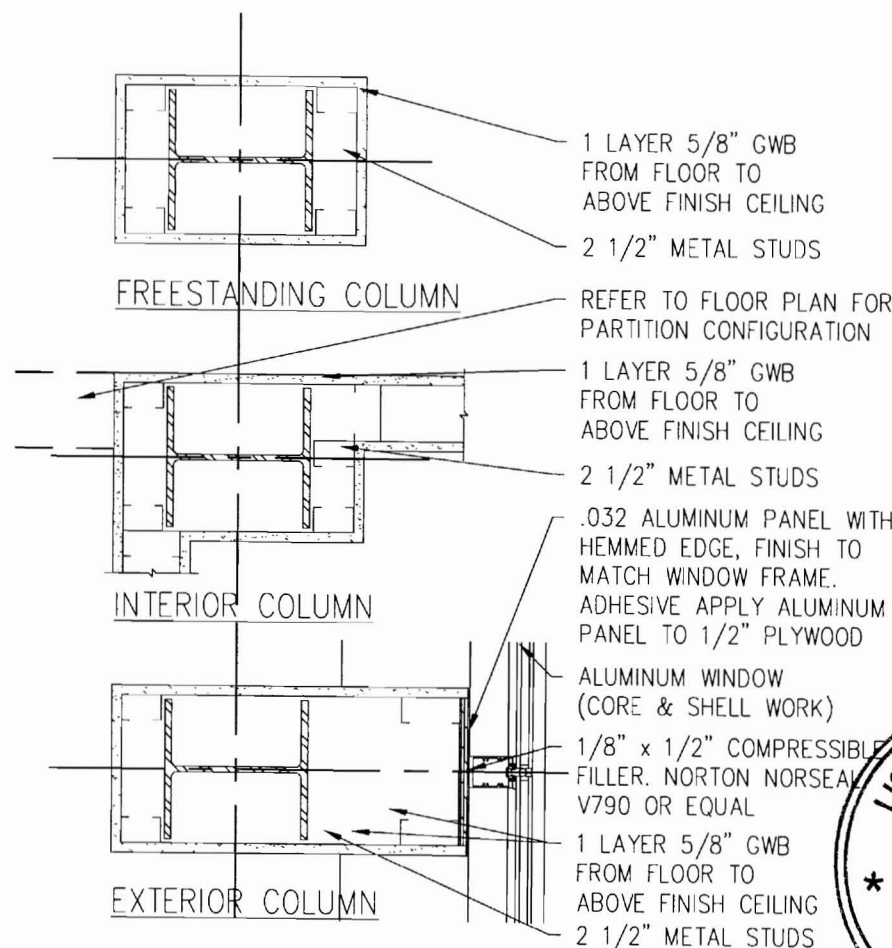


INTERIOR WALL FRAME LOCATIONS

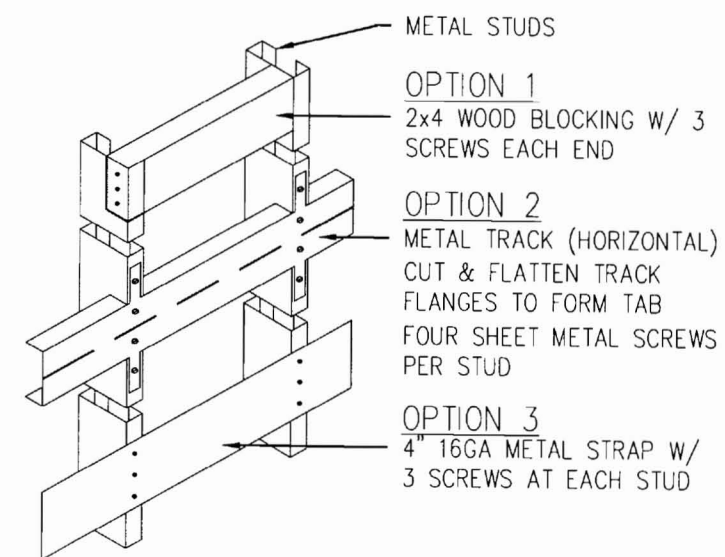


EXTERIOR WALL FRAME LOCATIONS

5 FINISH AT STRUCTURE BRACE FRAME
SCALE: 1" = 1'-0"



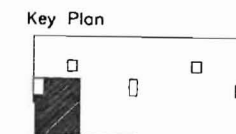
1 COLUMN ENCLOSURE
SCALE: 1" = 1'-0"



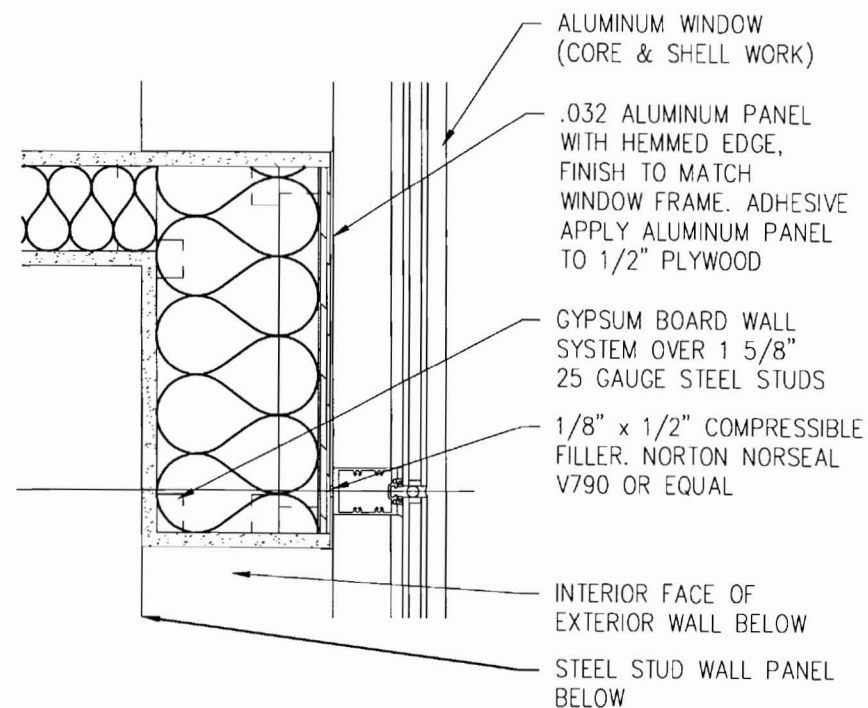
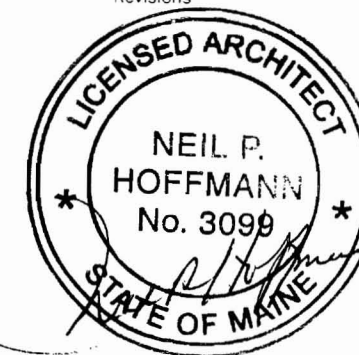
6 TYPICAL BLOCKING OPTIONS
SCALE: 1" = 1'-0"

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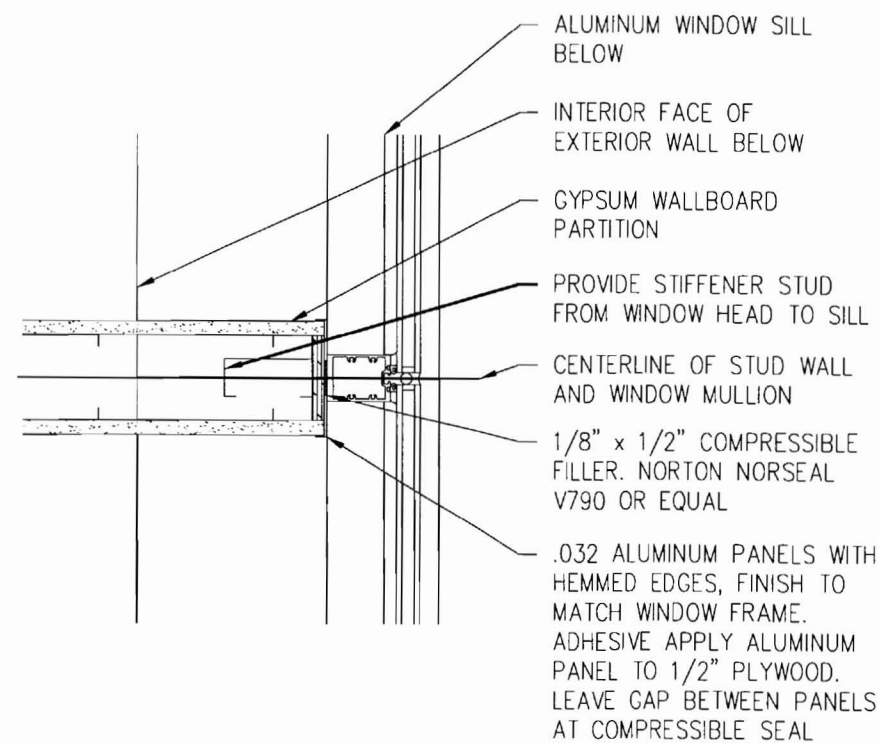
Revisions



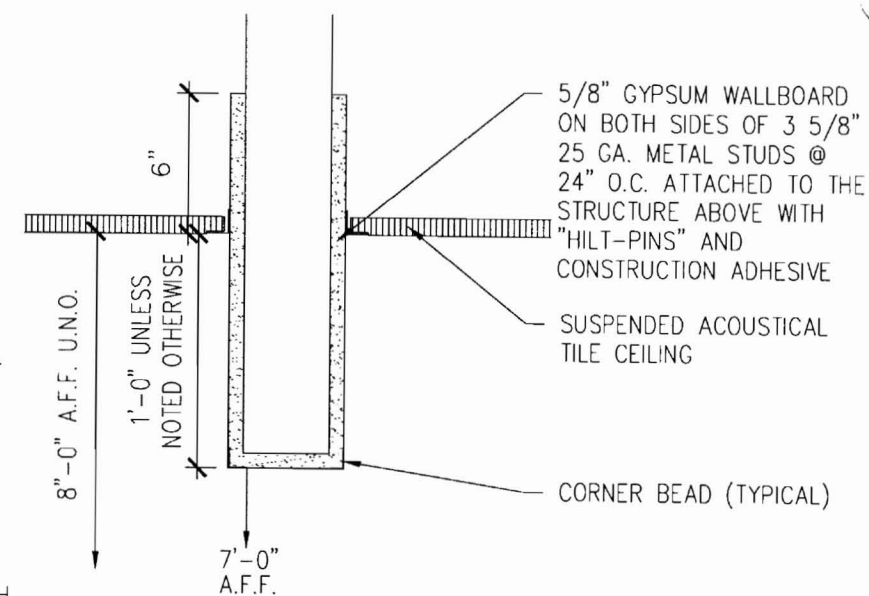
1 PARTITION TO MULLION
SCALE: 1 1/2" = 1'-0"

DETAIL NOT USED

2 PARTITION AT GLAZING
SCALE: 1 1/2" = 1'-0"



3 PARTITION AT MULLION
SCALE: 1 1/2" = 1'-0"



4 DROPPED HEADER
SCALE: 1 1/2" = 1'-0"

Sheet
Interior Details

Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

Suite 420

Date
November 20, 2007

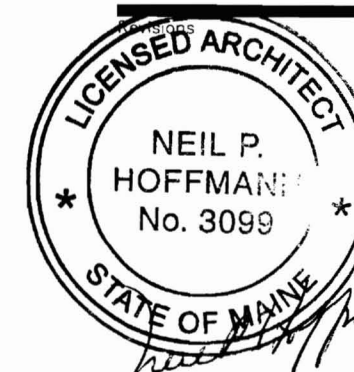
Project No.
F07-5256.00

Sheet No.
A10.3

Key Plan



NORTH



Sheet

Interior Details

Project

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Associates**

Suite 420

Date
November 20, 2007

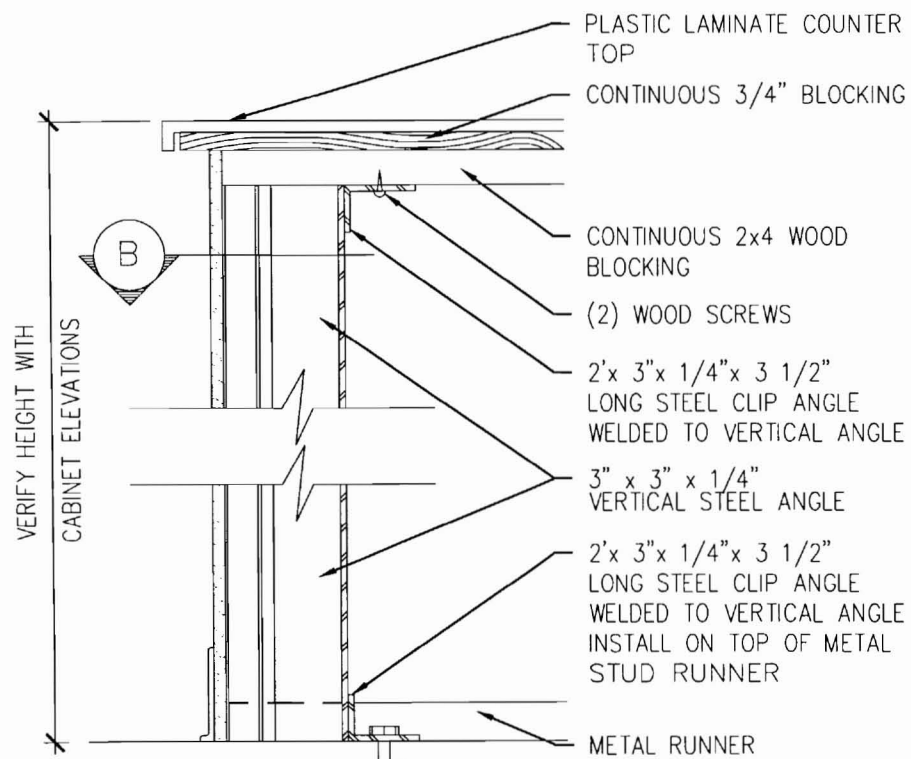
Project No.
F07-5256.00

Sheet No.

A10.4

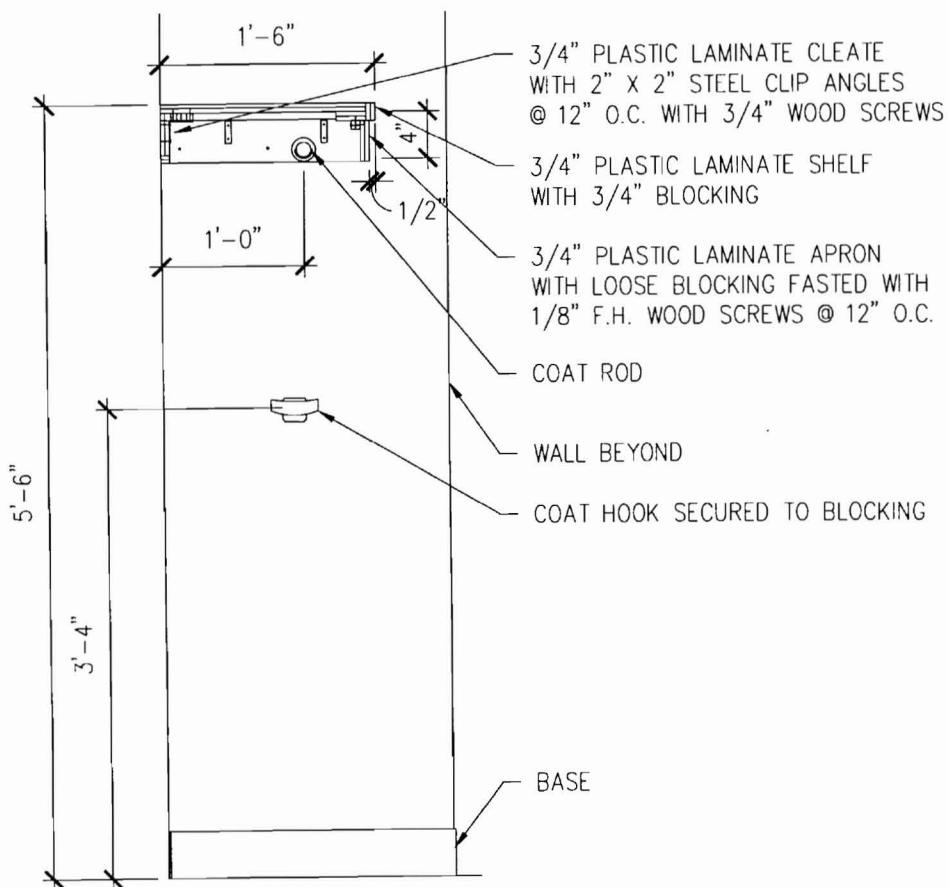
DETAIL NOT USED

1 NURSE STATION COUNTER
SCALE: 3/4" = 1'-0"

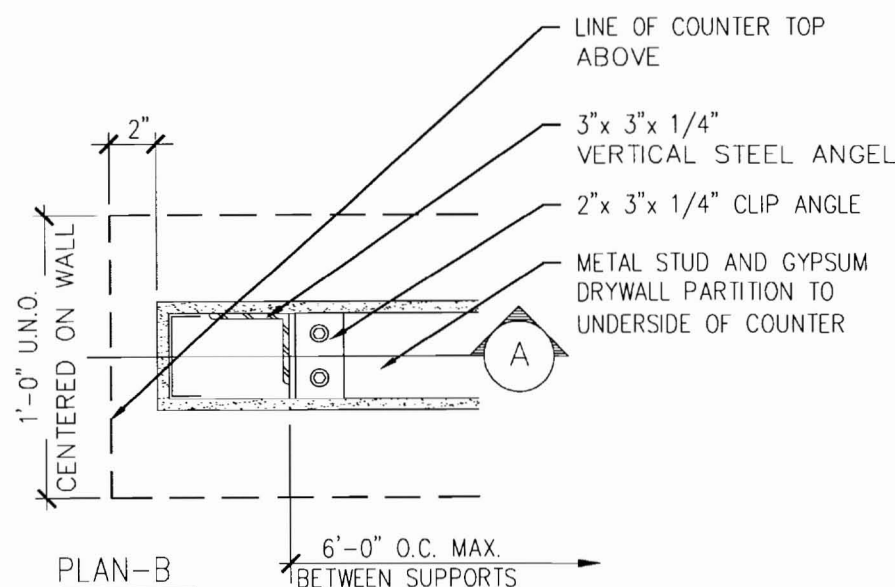


SECTION-A

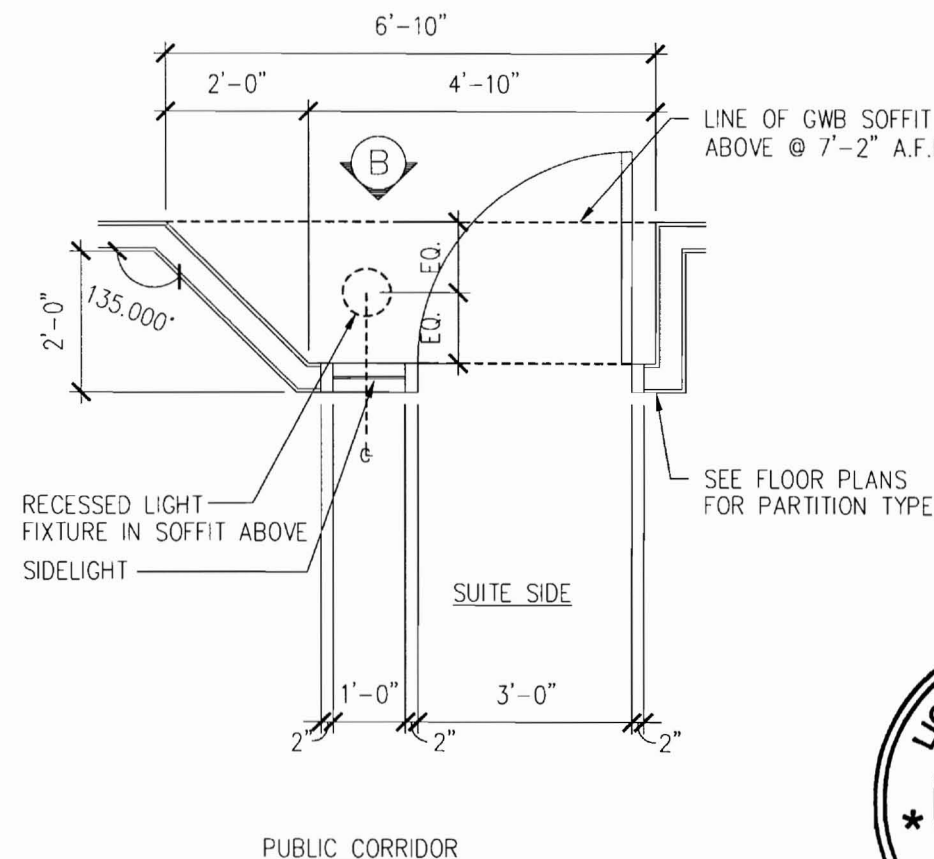
1/2" X 3" EXPANSION BOLT AT SLAB ON GRADE, 1/2" DIA. HIGH STRENGTH BOLT THRU FLOOR AT FRAMED LEVEL(S)



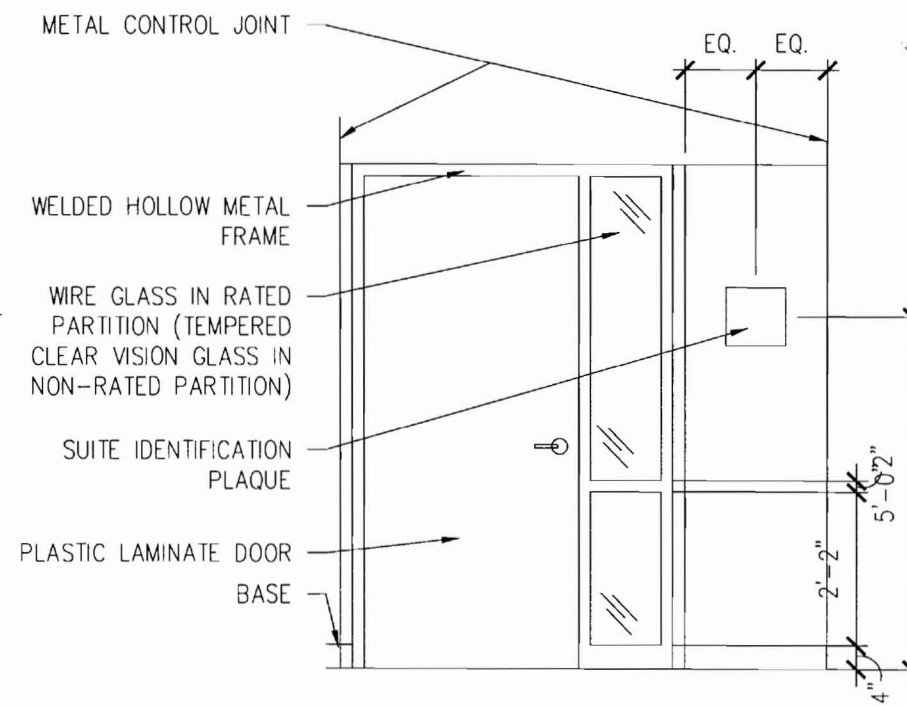
2 COAT RACK
SCALE: 3/4" = 1'-0"



3 WALL BRACE
SCALE: 1 1/2" = 1'-0"



PLAN-A

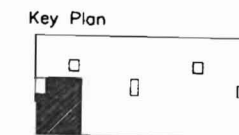


ELEVATION-B

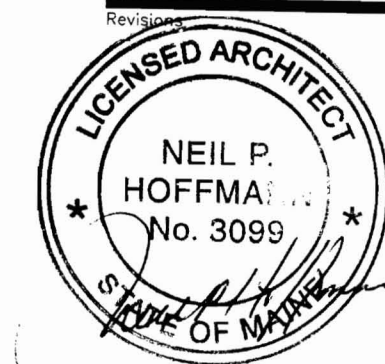
4 RECESSED SUITE ENTRY
SCALE: 3/8" = 1'-0"

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Revisions



Sheet
Interior Details

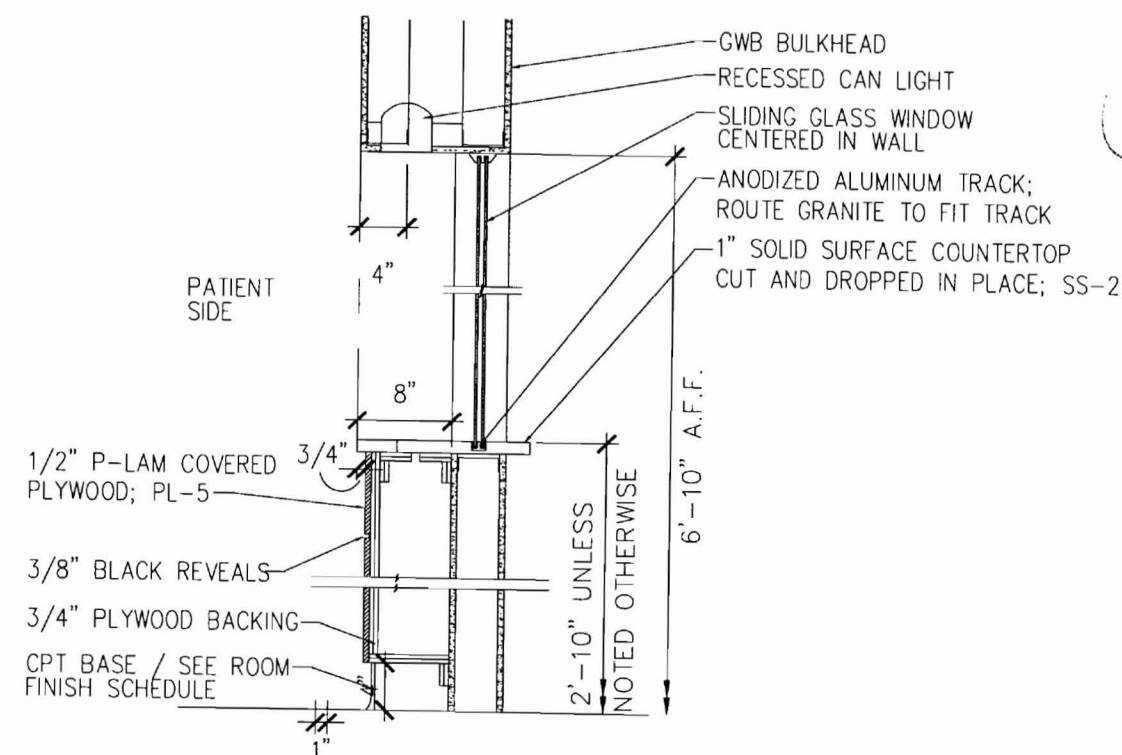
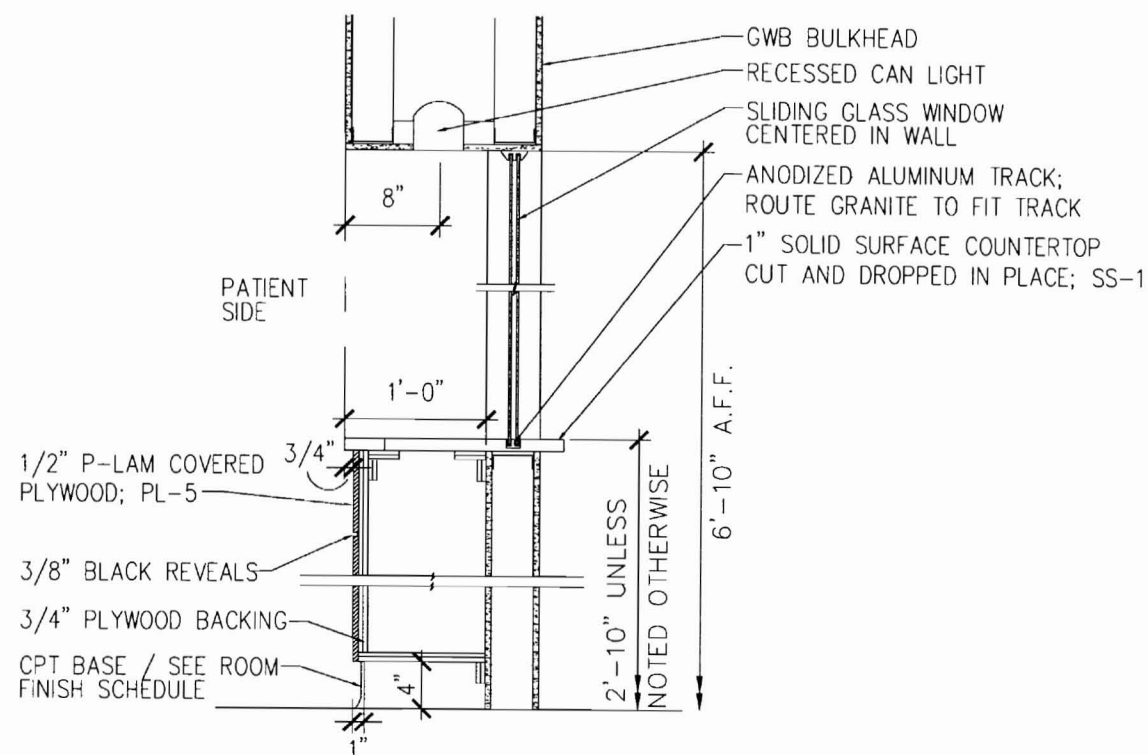
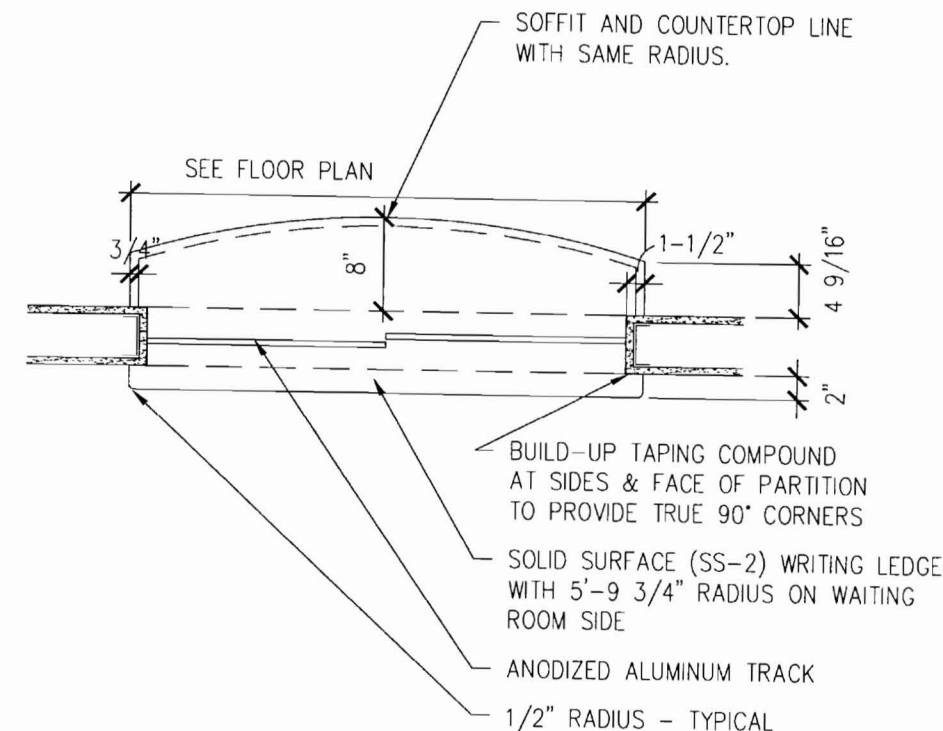
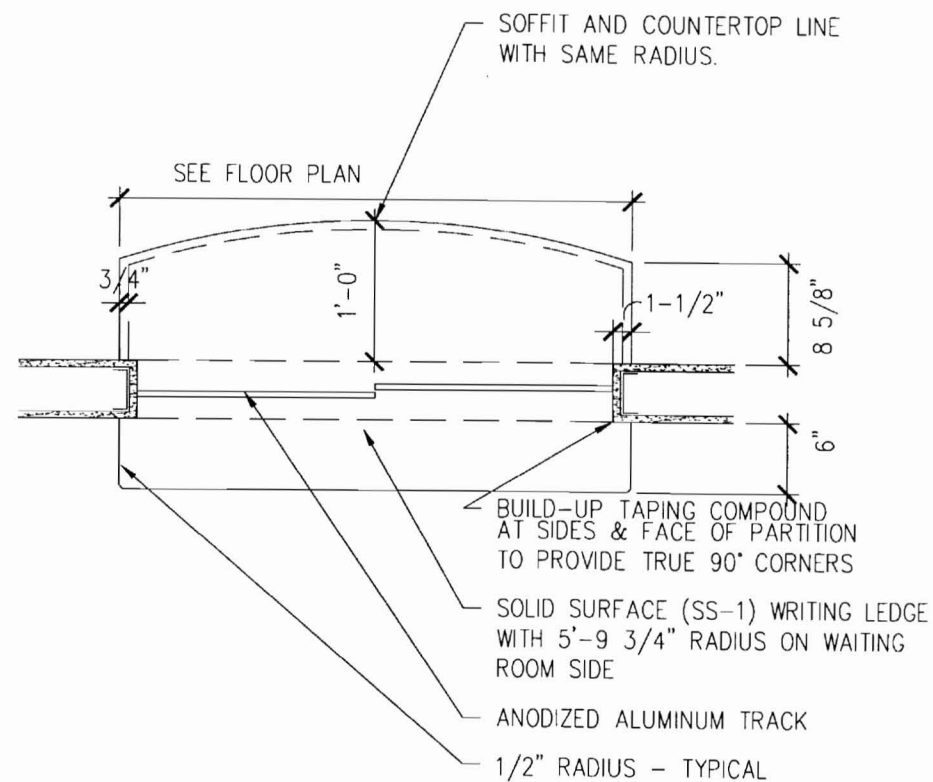
Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

Suite 420

Date
November 20, 2007

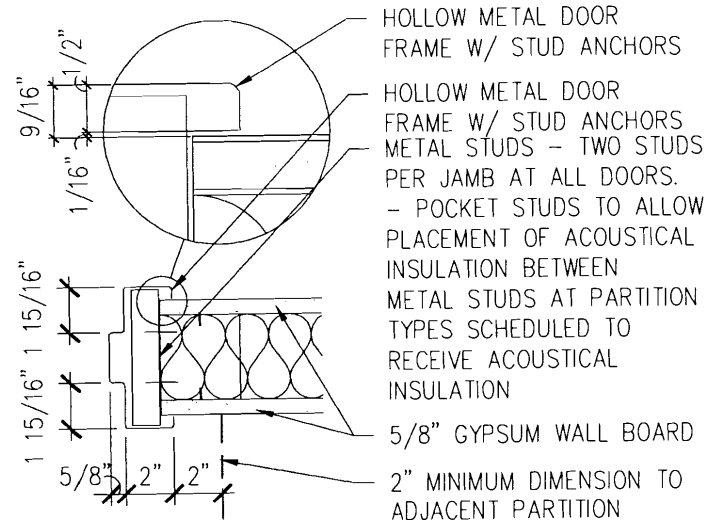
Project No.
F07-5256.00

Sheet No.
A10.5



1 CHECK-IN COUNTER
SCALE: 3/4" = 1'-0"

2 CHECK-OUT COUNTER
SCALE: 3/4" = 1'-0"

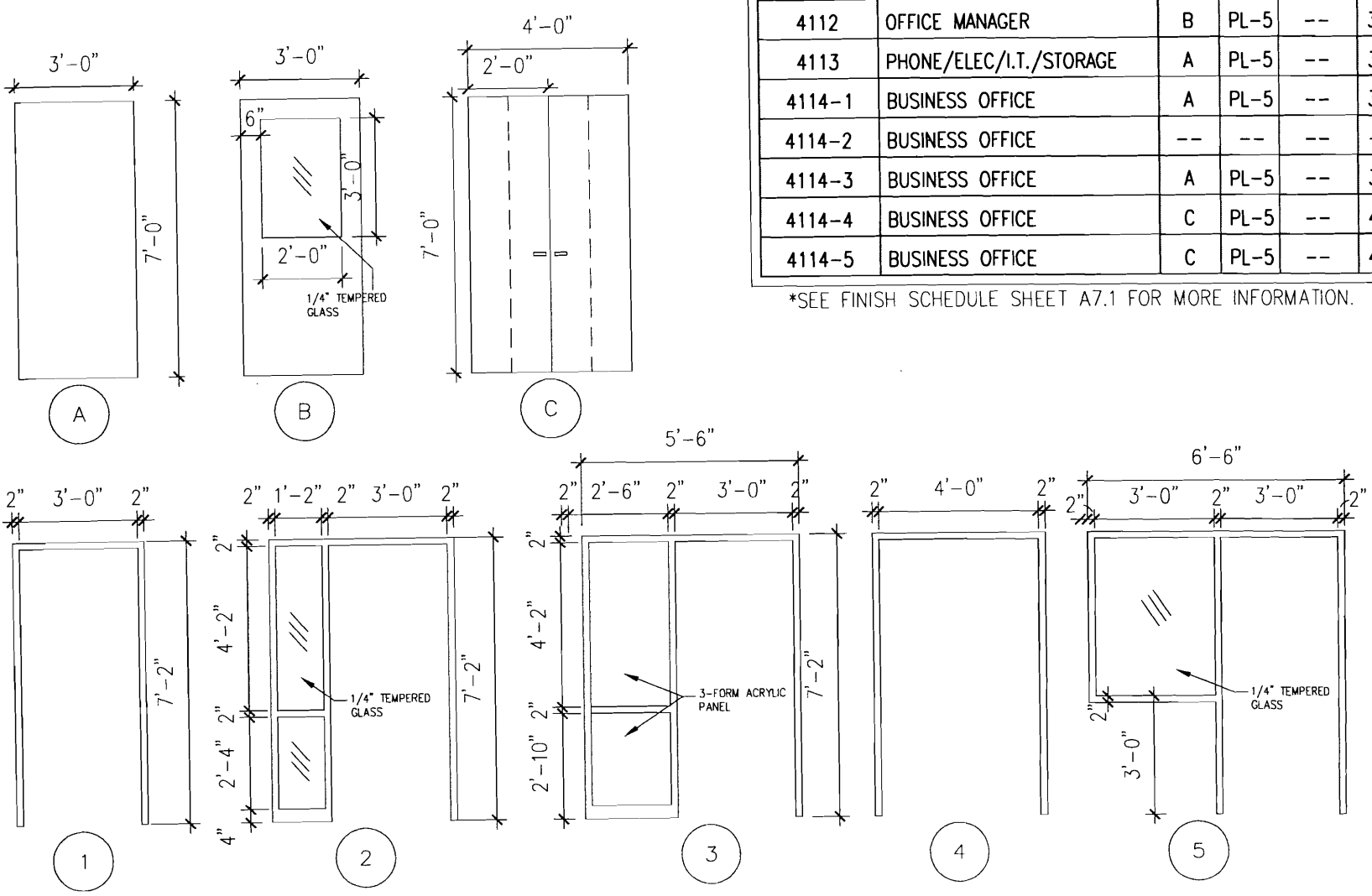


2 DOOR DETAIL
SCALE: 1-1/2" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR				FRAME			DETAIL	LIGHT	LOUVER	HDWR SET	NOTES
		TYPE	MAT'L	FINISH	SIZE (UNLESS NOTED)	TYPE	MAT'L	FINISH					
4101-1	WAITING AREA	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	2	HM	PT-1	2	YES	--	A	MAIN ENTRANCE
4101-2	WAITING AREA	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	3	HM	PT-1	2	YES	--	C	
4102	PATIENT TOILET	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	D	COAT HOOK
4103	STORAGE AREA	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	B	
4104	EXAM 3	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	F	COAT HOOK
4104	EXAM 3	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	F	COAT HOOK
4105	PROCEDURE ROOM	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	F	COAT HOOK
4106	EXAM 2	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	F	COAT HOOK
4107	EXAM 1	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	F	COAT HOOK
4108	PHYS. ASSIST. WORK ROOM	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	C	COAT HOOK
4109	STAFF TOILET & SHOWER	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	D	COAT HOOK
4110-1	PHYSICIAN WORK ROOM	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	C	COAT HOOK
4110-2	PHYSICIAN WORK ROOM	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	C	COAT HOOK
4111	STAFF LOUNGE	B	PL-5	--	3'-0" x 1-3/4" x 7'-0"	5	HM	PT-1	2	YES	--	D	
4112	OFFICE MANAGER	B	PL-5	--	3'-0" x 1-3/4" x 7'-0"	5	HM	PT-1	2	YES	--	D	COAT HOOK
4113	PHONE/ELEC./I.T./STORAGE	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	B	
4114-1	BUSINESS OFFICE	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	D	
4114-2	BUSINESS OFFICE	--	--	--	--	1	HM	PT-1	--	--	--	--	--
4114-3	BUSINESS OFFICE	A	PL-5	--	3'-0" x 1-3/4" x 7'-0"	1	HM	PT-1	2	--	--	D	
4114-4	BUSINESS OFFICE	C	PL-5	--	4'-0" x 1-3/4" x 7'-0"	4	HM	PT-1	--	--	--	B	
4114-5	BUSINESS OFFICE	C	PL-5	--	4'-0" x 1-3/4" x 7'-0"	4	HM	PT-1	--	--	--	B	

*SEE FINISH SCHEDULE SHEET A7.1 FOR MORE INFORMATION.



1 DOOR AND FRAME TYPES
SCALE: 1/4" = 1'-0"

DOOR HARDWARE SETS

HARDWARE SET A (SUITE ENTRY)

- (1) SUITE ENTRANCE LOCKSET
- (1 1/2) PR - BALL BEARING BUTT HINGES
- (1) FLOOR STOP
- (1) CLOSER

HARDWARE SET B (FILE, STOR., LAB., MED.)

- (1) STORAGE LOCK SET
- (1 1/2) PR - STANDARD BUTT HINGES
- (1) WALL OR FLOOR STOP

HARDWARE SET C (RECEPTION, PHYSICIAN OFFICE.)

- (1) OFFICE LOCK SET
- (1 1/2) PR - STANDARD BUTT HINGES
- (1) WALL OR FLOOR STOP

HARDWARE SET D (OFFICE, TOILET, WAITING)

- (1) PRIVACY LOCK SET
- (1 1/2) PR - STANDARD BUTT HINGES
- (1) WALL OR FLOOR STOP

HARDWARE SET F (EXAM, SPECIAL PROCEDURE, CLOSET)

- (1) PASSAGE SET
- (1 1/2) PR - STANDARD BUTT HINGES
- (1) WALL OR FLOOR STOP

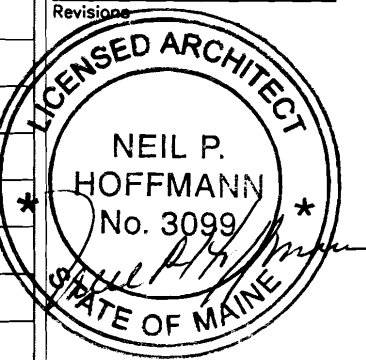
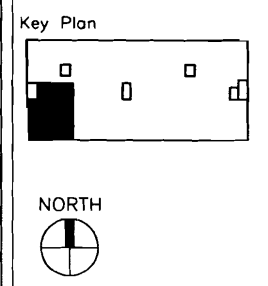
ABBREVIATIONS LEGEND:

PL	PLASTIC LAMINATE
PT	PAINT
HM	HOLLOW METAL
AL	ALUMINUM
PREF	PREFINISHED
WD	WOOD
CH	DULL CHROME FINISH

GENERAL NOTES

- NOTE NOT USED
- PROVIDE COAT HOOK MOUNTED ON BACK OF DOOR AT 4'-6" MAX. ABOVE FINISHED FLOOR.

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Sheet
Door Schedule and Details

Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical Associates**

Suite 420
Date
November 20, 2007

Project No.
F07-5256.00

Sheet No.
A11.1

FURNISHINGS, FIXTURES AND EQUIPMENT SCHEDULE

ROOM NO.	ITEM NO.	EQUIPMENT NAME	ROOM LOCATION	SIZE	FURNISHED BY	INSTALLED BY	ROUGH-IN ONLY BY CONTRACTOR	EQUIPMENT BOOK	NOTES
4114	E.01	FILES	BUSINESS OFFICE	36"W X 12"D X 72"H	-	-	-	-	QTY. 4 TOTAL
4101	E.02	FISH TANK	WAITING AREA	40"W X 12"D X 40"H	-	-	-	-	-
4113	E.03	EQUIPMENT	PHONE/ELEC./I.T.	36"W X 36"D	-	-	-	-	-
4114	E.04	REFRIGERATOR	STAFF LOUNGE	36"W X 36"D	-	-	-	-	-
4100	E.05	WATER FEATURE	CORRIDOR	-	-	-	-	-	-
4110	E.06	UNDERCOUNTER FRIDGE	PHYSICIAN WORK ROOM	24"W X 20"D X 32"H	-	-	-	-	-
4114	E.07	COUNTERTOP COPIER	BUSINESS OFFICE	24"W X 20"D X 21"H	-	-	-	-	-
4114	E.08	POSTAGE MACHINE	BUSINESS OFFICE	20"W X 15"D X 9"H	-	-	-	-	-
4114	E.09	SHREDDER	BUSINESS OFFICE	12"W X 18"D X 24"H	-	-	-	-	-
-	E.010	-	-	-	-	-	-	-	-

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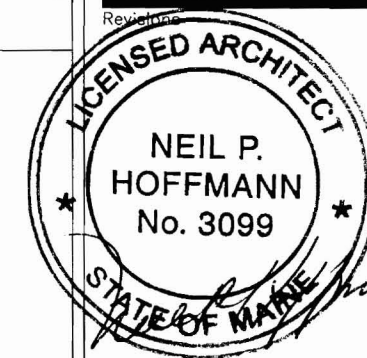
Key Plan



NORTH



Revision



Sheet

Equipment by
Tenant Schedule

Project

MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates

Suite 420

Date

November 20, 2007

Project No.

F07-5256.00

Sheet No.












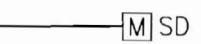

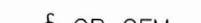

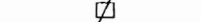


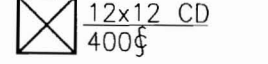
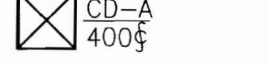
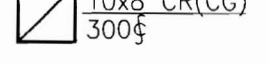

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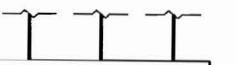

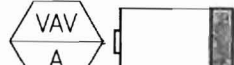

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE COORDINATED WITH REQUIREMENTS OF THE TENANTS FURNISHINGS FIXTURES AND EQUIPMENT
2. INFORMATION CONTAINED IN THESE DOCUMENTS IS FOR REFERENCE ONLY
3. ALL FREESTANDING FURNITURE AND EQUIPMENT TO BE PROVIDED BY TENANT. FREESTANDING FURNITURE SHOWN FOR REFERENCE ONLY.

HVAC BASIC DUCTWORK SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

	SINGLE LINE DUCTWORK OR EQUIPMENT - NEW
	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING
	DUCTWORK TO BE REMOVED
	DUCTWORK WITH ACOUSTIC LINING
	DUCT UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
	DUCT UNDER NEGATIVE PRESSURE (RETURN, EXHAUST OR OUTSIDE AIR)
	VOLUME DAMPER
	FIRE DAMPER AND ACCESS DOOR
	BACK DRAFT DAMPER
	COMBINATION SMOKE & FIRE DAMPER W/ACCESS DOOR
	AUTOMATIC DAMPER
	AUTOMATIC SMOKE DAMPER
	CENTER LINE
	CUBIC FEET PER MINUTE
	DIAMETER
	SQUARE FEET
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	RECTANGULAR CEILING DIFFUSER WITH 12" X 12" NECK 400 CFM SUPPLY AIR
	TYPE A CEILING DIFFUSER 400 CFM SUPPLY AIR
	10" BY 8" CEILING REGISTER (CEILING GRILLE) 300 CFM RETURN AIR
	RECTANGULAR DIFFUSER WITH BLANKING PLATE

	VANED ELBOW (SEE DETAIL) OR RADIUS ELBOW
	FLEXIBLE DUCT
	SLOTTED LINEAR DIFFUSER WITH PLENUM
	VAV BOX TYPE A
	VAV BOX TYPE A WITH REHEAT COIL
	THERMOSTAT

HVAC ABBREVIATIONS

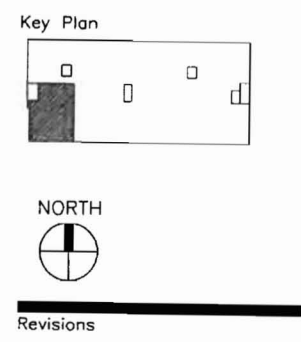
(NOT ALL ABBREV. ARE NECESSARILY USED ON THIS PROJECT)

AD	ACCESS DOOR	EWB	ENTERING WET BULB
AFF	ABOVE FINISHED FLOOR	EWT	ENTERING WATER TEMPERATURE
AHU	AIR HANDLING UNIT	EXH	EXHAUST
BHP	BRAKE HORSEPOWER	*F	DEGREES FAHRENHEIT
BTU	BRITISH THERMAL UNIT	FA	FREE AREA (SQ.FT.)
BTUH	BTU PER HOUR	FC	FLEXIBLE CONNECTION
CD	CEILING DIFFUSER	FD	FIRE DAMPER
CFM	CUBIC FEET PER MINUTE	FLA	FULL LOAD AMPERES
CG	CEILING GRILLE	FPM	FEET PER MINUTE
CLG	CEILING	GAL	GALLON
CR	CEILING REGISTER	GPH	GALLONS PER HOUR
CV	CONSTANT VOLUME	GPM	GALLONS PER MINUTE
DB	DRY BULB	HT	HEIGHT
DMPR	DAMPER	HZ	FREQUENCY
DX	DIRECT EXPANSION	IN	INCH OR INCHES
(E)	EXISTING TO REMAIN	LAT	LEAVING AIR TEMPERATURE
(ER)	EXISTING TO BE REMOVED	LD	LINEAR DIFFUSER
(ERR)	EXISTING TO BE REMOVED & RELOCATED	LWB	LEAVING WET BULB TEMPERATURE
EAT	ENTERING AIR TEMPERATURE	LWT	LEAVING WATER TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE	MBH	THOUSAND BTU PER HOUR
EF	EXHAUST FAN	MIN	MINIMUM
EL	ELEVATION	(N)	NEW
		NIC	NOT IN CONTRACT
		NO.	NUMBER
		NTS	NOT TO SCALE
		OA	OUTSIDE AIR
		OAI	OUTSIDE AIR INTAKE
		OED	OPEN END DUCT
		RA	RETURN AIR
		(RE)	RELOCATED EXISTING
		RF	RETURN FAN
		RH	RELATIVE HUMIDITY
		RHC	REHEAT COIL
		RPM	REVOLUTIONS PER MINUTE
		SA	SUPPLY AIR
		SD	SMOKE DAMPER
		SP	STATIC PRESSURE
		TEMP	TEMPERATURE
		TYP	TYPICAL
		UH	UNIT HEATER
		VAV	VARIABLE AIR VOLUME UNIT
		w/	WITH
		WMS	WIRE MESH SCREEN

75 AS
0714
PDF

EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
*F	DEGREES FAHRENHEIT
FA	FREE AREA (SQ.FT.)
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FPM	FEET PER MINUTE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HT	HEIGHT
HZ	FREQUENCY
IN	INCH OR INCHES
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
(N)	NEW
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OED	OPEN END DUCT
RA	RETURN AIR
(RE)	RELOCATED EXISTING
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TYP	TYPICAL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME UNIT
w/	WITH
WMS	WIRE MESH SCREEN

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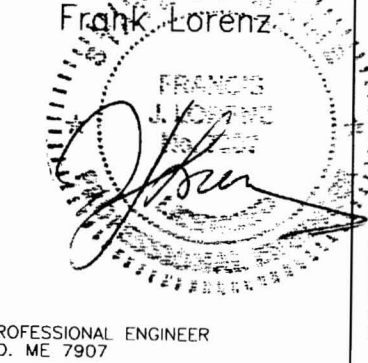


AKF
 engineers
 1500 WALNUT STREET, SUITE 1400
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 215.735.7290 TEL. 215.735.6706 FAX
 AKF PROJ. NO. P060106-E
 ARLINGTON - BOSTON - NEW YORK - PHILADELPHIA
 PRINCETON - STAMFORD - MEXICO CITY

Sheet
HVAC
 Cover Sheet

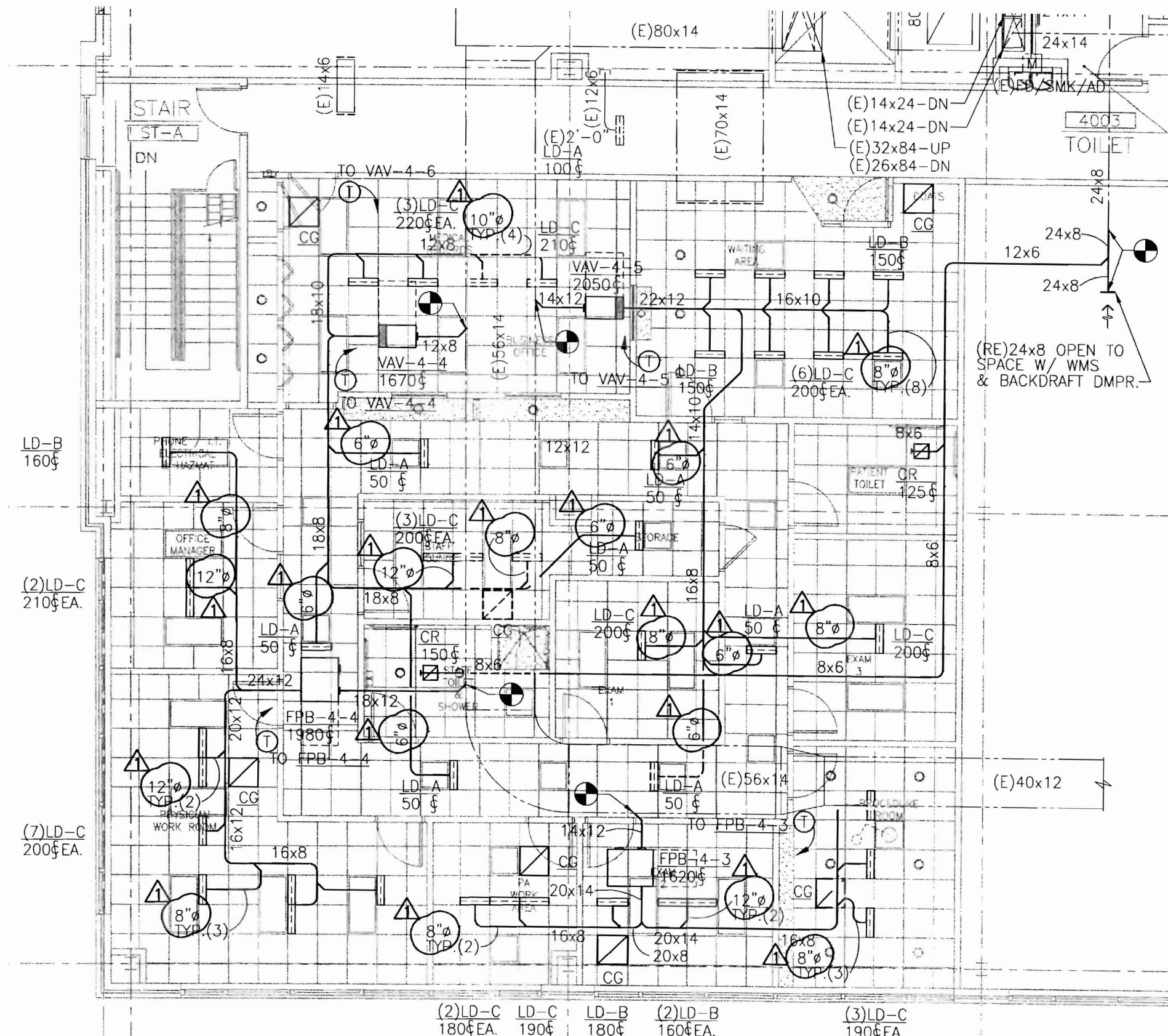
Project
MERCY HOSPITAL
 Medical Office Bldg.
 Portland, Maine
 Portland Surgical
 Associates
 Suite 420
 Date
November 14, 2007
 Project No.
F07-5256.00
 Sheet No.
H-1.0

Professional Engineer
 NO. ME 7907



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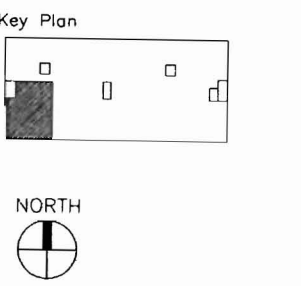
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1 FLOOR PLAN
SCALE: 1/8"=1'-0"

(2)LD-C 180\$ EA. LD-C 190\$ LD-B 180\$ (2)LD-B 160\$ EA. (3)LD-C 190\$ EA.

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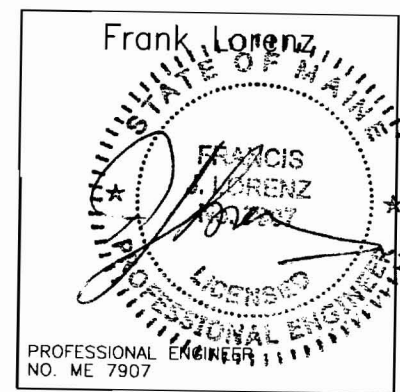


Revisions
 11-27-07
 CONSTRUCTION BULLETIN #1

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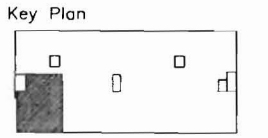
Sheet
HVAC
 Floor Plan

Project
MERCY HOSPITAL
 Medical Office Bldg.
 Portland, Maine
 Portland Surgical
 Associates



Suite 420
 Date
November 14, 2007
 Project No.
F07-5256.00
 Sheet No.
H-2.0

**LANDMARK
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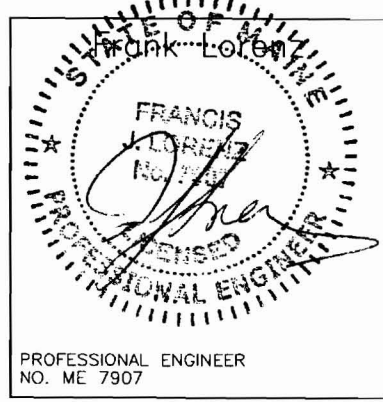
Sheet
**HVAC
Schedules**

Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates**

Suite 420
Date
November 14, 2007

Project No.
F07-5256.00

Sheet No.
H-3.0



SERIES FAN POWERED TERMINAL UNIT SCHEDULE													
DESIGNATION	INLET SIZE	INDUCTION OPENING (WxH)	FILTER		DISCHARGE DUCT OPENING (WxH)	PERFORMANCE DATA		AIR DATA			FAN DATA		
			SIZE	EFFICIENCY		MIN. Δ SP	CFM @ MIN. Δ SP	MAX. PRIMARY CFM	MIN. PRIMARY CFM	MAX. RETURN CFM	CFM	EXT. SP (IN. W.G.)	FAN TYPE
FPB-4-3	12	12x18.25	14x18	30%	16.5x14.63	0.5	1620	1620	0	1620	1620	0.5	CENTRIF
FPB-4-4	14	12x18.25	14x18	30%	16.5x14.63	0.5	1980	1980	0	1980	1980	0.5	CENTRIF

SERIES FAN POWERED TERMINAL UNIT SCHEDULE (CONT.)														BASED ON: TITUS	
DESIGNATION	MOTOR DATA			ELECTRIC HEATING COIL DATA								TYPE OF CONTROLS	MANUF. MODEL #	REMARKS	
	MOTOR HP	FLA	ELECTRICAL DATA	MBH	KW INPUT	VOLTS	PHASE	HZ	FULL-LOAD AMPERES	No. OF STEPS (STAGES)					
		VOLTS									PHASE	HZ			
FPB-4-3	1/3	3.0	480	3	60	34.6	10.1	480	3	60	12.2	3	DDC	DTFS	-
FPB-4-4	1/3	3.0	480	3	60	43.2	12.7	480	3	60	15.2	3	DDC	DTFS	-

TERMINAL BOX SCHEDULE														
DESIGNATION	BOX TYPE	BOX SIZE (INLET SIZE)	AIRFLOW RANGE (CFM)		ELECTRIC HEATING COIL DATA						LOWEST MINIMUM HEATING CFM SETTING	MINIMUM STATIC PRESSURE ΔPS (IN. W.G.)	DISCHARGE SOUND LEVEL AT MAX. CFM & Δ PS=1" (NC)	
			MIN.	MAX.	MBH	KW INPUT	VOLTS	PHASE	HZ	FULL-LOAD AMPERES				No. OF STEPS (STAGES)
VAV-4-4	VAV	12	0	1670	29.6	8.7	480	3	60	10.4	3	425	0.5	26
VAV-4-5	VAV	12	0	2050	32.8	9.6	480	3	60	11.6	3	425	0.5	26

DIFFUSER SCHEDULE							BASED ON: TITUS
UNIT NO.	CFM RANGE	SERVICE	TYPE	NECK SIZE (IN.)	FACE OVERALL DIMENSIONS WxL (IN.)	BASIS OF DESIGN	
LD-A	0-100	SUPPLY	LAY-IN	2-SLOT	3.75"WD. x 2'-0"	TITUS ML-38	
LD-B	101-180 CFM	SUPPLY	LAY-IN	3-SLOT	5.25"WD. x 2'-0"	TITUS ML-38	
LD-C	181-230 CFM	SUPPLY	LAY-IN	4-SLOT	6.75"WD. x 2'-0"	TITUS ML-38	
CR	0-150	EXH	LAY-IN	6"φ	12x12	TITUS PAR	
CR	151-200	EXH	LAY-IN	6"φ	24x24	TITUS PAR	
CR	201-300	EXH	LAY-IN	8"φ	24x24	TITUS PAR	
CG	0-1500	RET	LAY-IN	22x22	24x24	TITUS PAR	

TERMINAL BOX SCHEDULE (CONT.)					BASED ON: TITUS
DESIGNATION	RADIATED SOUND LEVEL AT MAX. CFM & Δ PS=1" (NC)	TYPE OF CONTROLS	MANUF. MODEL #	REMARKS	
VAV-4-4	29	DDC	DESV	-	
VAV-4-5	29	DDC	DESV	-	

- NOTES:
- NOT ALL DIFFUSER AND REGISTER TYPES ARE NECESSARILY USED. REFER TO PLANS.
 - LINEAR DIFFUSERS INSTALLED IN GYP BOARD WALLS OR CEILINGS TO COME WITH OPPOSED BLADE DAMPERS ACCESSIBLE FROM FACE OF DIFFUSER.
 - LINEAR DIFFUSERS TO COME COMPLETE WITH MATCHING PLENUM MP-38.

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ELECTRICAL SYMBOLS LIST

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

A,a 2'x4'/2'x2'/1'x4' FLUORESCENT CEILING MOUNTED FIXTURE
 'A' = FIXTURE TYPE
 'a' = CONTROLLED BY SWITCH 'a'

A,a SIMILAR TO ABOVE WITH EMERGENCY BACKUP
 'A' = FIXTURE TYPE
 'a' = CONTROLLED BY SWITCH 'a'

'A'
 a CEILING MOUNTED FIXTURE
 'A' = FIXTURE TYPE
 'a' = CONTROLLED BY SWITCH 'a'

'A'
 a SIMILAR TO ABOVE WITH EMERGENCY BACKUP
 'A' = FIXTURE TYPE
 'a' = CONTROLLED BY SWITCH 'a'

'A'
 a CEILING MOUNTED EXIT LIGHT - DIRECTIONAL
 ARROWS WHERE INDICATED - SHADED AREAS INDICATE
 ILLUMINATED FACE/FACES
 'A' = FIXTURE TYPE

'A'
 a WALL MOUNTED EXIT LIGHT - DIRECTIONAL
 ARROWS WHERE INDICATED - SHADED AREAS INDICATE
 ILLUMINATED FACE/FACES
 'A' = FIXTURE TYPE

S_a³ SINGLE POLE SWITCH
 3 = THREE-WAY
 a = CONTROLS SWITCH LEG 'a'

\$_m DISCONNECT SWITCH - TOGGLE TYPE
 MOTOR RATED, 20A, 1P, UON

OSH OCCUPANCY SENSOR, WALL MOUNTED

T TRANSFORMER

20A, 125V DUPLEX RECEPTACLE - FLUSH WALL MOUNTED
 CONTROLLED FROM WALL SWITCH 'a'

20A, 125V QUADRUPLUX RECEPTACLE - FLUSH WALL MOUNTED

20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED
 GFI TYPE.

HOMERUN-NUMERAL WHERE USED INDICATES CIRCUIT
 NUMBER FOR REFERENCE ONLY.

2#12+1#12G-3/4"C FOR ONE CKT. HOMERUN, U.O.N.
 3#12+1#12G-3/4"C FOR TWO CKT. HOMERUN, U.O.N.
 4#12+1#12G-3/4"C FOR THREE CKT. HOMERUN, U.O.N.

HOMERUN - NUMERAL WHERE USED INDICATES CIRCUIT
 NUMBER FOR REFERENCE ONLY

30/3 UNFUSED DISCONNECT SWITCH
 SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED

100/60/3 FUSED DISCONNECT SWITCH; SWITCH AMPS/FUSE AMPS/
 # OF POLES, VOLTAGE RATING AS REQUIRED

SURFACE MOUNTED LIGHTING PANELBOARD

SURFACE MOUNTED POWER PANELBOARD

CEILING MOUNTED JUNCTION BOX

FLUSH WALL MOUNTED JUNCTION BOX

FLUSH FLOOR MOUNTED JUNCTION BOX

NEW CONCEALED CONDUIT

NEW EXPOSED CONDUIT

EF-1 EQUIPMENT DESIGNATION

208V, 3Ø VOLTAGE, PHASE

5HP HP, KW OR FLA OF EQUIPMENT

S_F CEILING MOUNTED SPACE SMOKE DETECTOR
 F = MOUNTED UNDER RAISED FLOOR

H COMBINATION FIRE ALARM HORN AND STROBE LIGHT UNIT
 FLUSH WALL MOUNTED

F COMBINATION FIRE ALARM SPEAKER AND STROBE LIGHT UNIT
 FLUSH WALL MOUNTED

F FLUSH WALL MOUNTED STROBE LIGHT UNIT

∇##/∇ VOICE & DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED
 IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING
 ##/## = # OF VOICE JACKS/# OF DATA JACKS

∇# VOICE OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED
 IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING
 P = PUBLIC
 F = FAX
 W = WALL MOUNTED 48" AFF
 # = NUMBER OF JACKS

TV TELEVISION OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED
 IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING

SINGLE LINE DIAGRAM SYMBOLS

480V
 500KVA
 120/208 POWER TRANSFORMER
 VOLTAGES, WINDINGS AND SIZE AS INDICATED

PANEL
 NL3A2 PANELBOARD

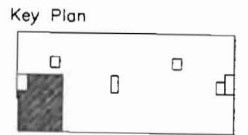
ABBREVIATIONS

(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

+ SPECIAL MOUNTING HEIGHT. COORDINATE
 LOCATION WITH ARCHITECTURAL ELEVATIONS
 A AMPERE
 AFF ABOVE FINISHED FLOOR
 AIC AMPERE INTERRUPTING CAPACITY
 (E) EXISTING TO REMAIN
 EM EMERGENCY
 (ER) EXISTING TO BE REMOVED
 (ERR) EXISTING TO BE REMOVED & RELOCATED
 (RE) RELOCATED EXISTING
 UON UNLESS OTHERWISE NOTED
 V VOLT OR VOLTAGE
 XFMR TRANSFORMER

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Sheet

Electrical Cover Sheet

Project

MERCY HOSPITAL
 Medical Office Bldg.
 Portland, Maine
 Portland Surgical
 Associates

Suite 420

Date

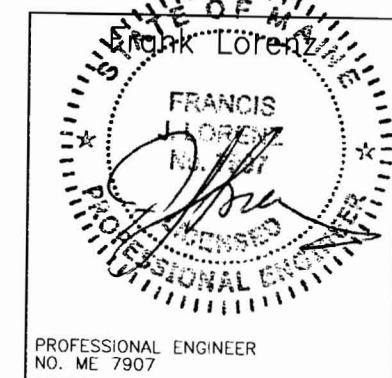
November 14, 2007

Project No.

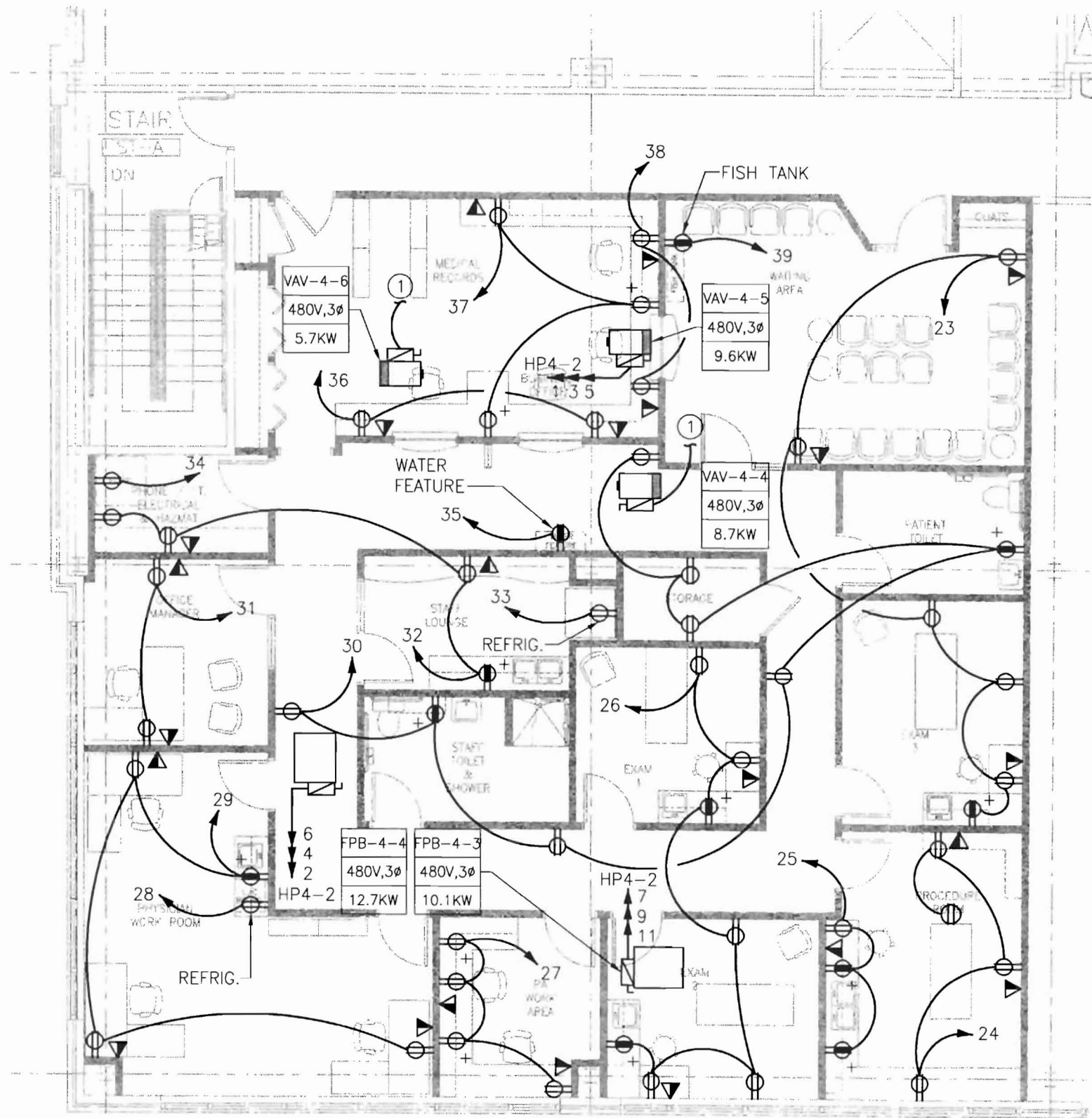
F07-5256.00

Sheet No.

E-1.0



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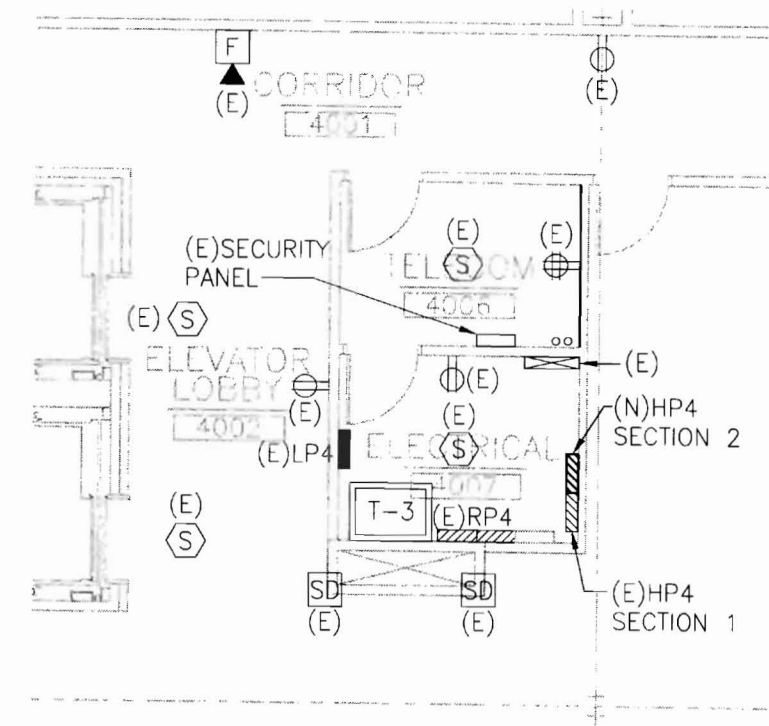
1 FLOOR PLAN
SCALE: 1/8"=1'-0"

DRAWING NOTES:

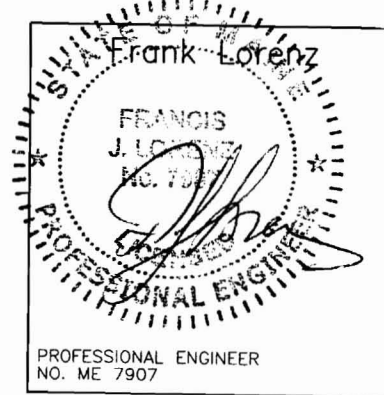
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS OF OUTLETS.
2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
3. ALL CIRCUITS ARE TO (E)PANEL RP4 UNLESS OTHERWISE NOTED.

KEYNOTES:

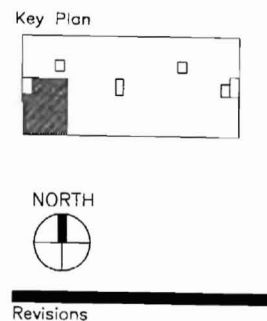
- ① CONNECT TO A NEW 20A/3P CIRCUIT BREAKER IN (E)PANEL HP4 SECTION 1.



2 4TH FLR ELEC. CLOSET
SCALE: 1/8"=1'-0"



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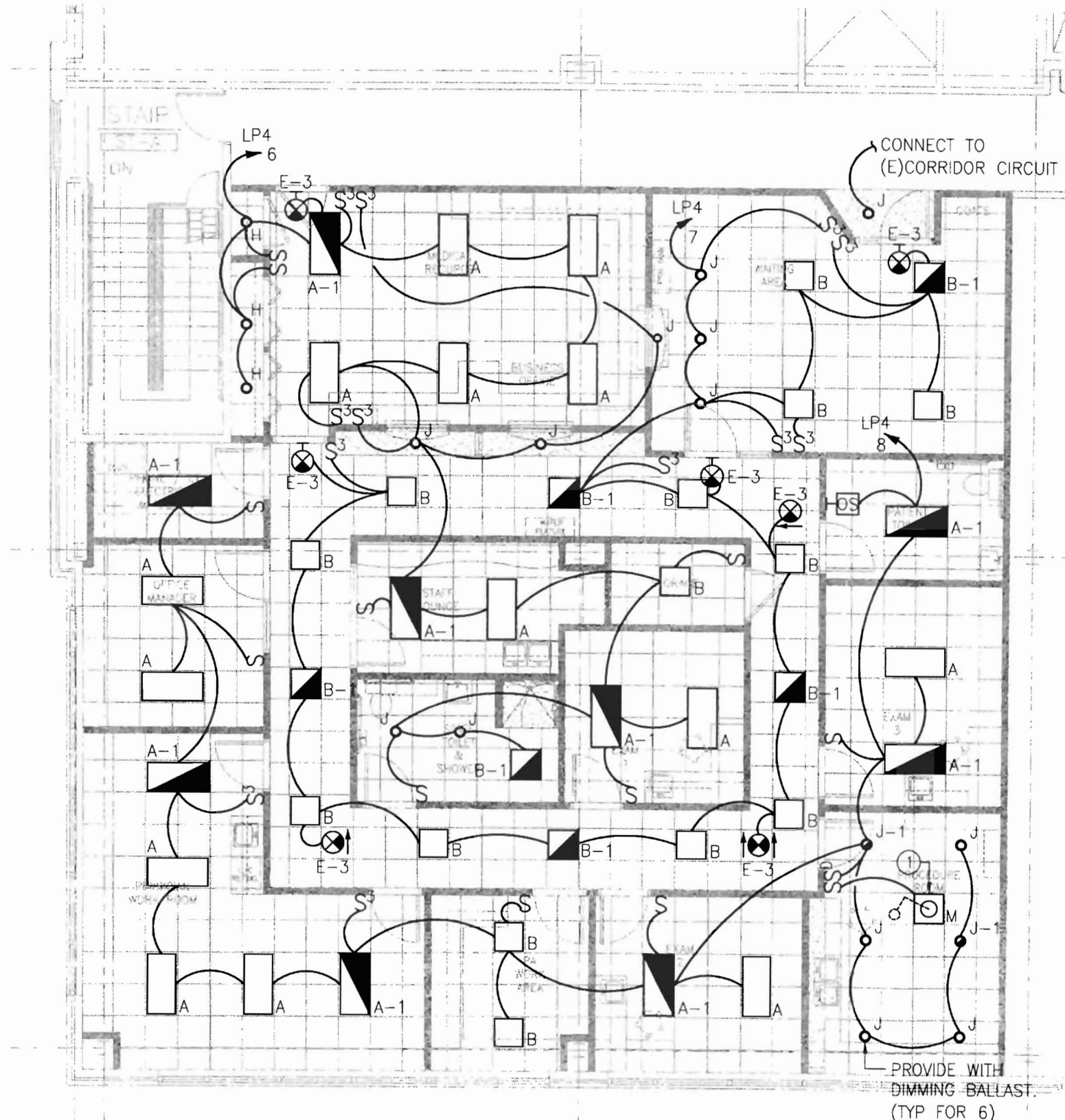


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Sheet
Electrical Floor Plan Power

Project
MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical Associates
Suite 420
Date
November 14, 2007
Project No.
F07-5256.00
Sheet No.
E-2.0

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1 FLOOR PLAN
SCALE: 1/8"=1'-0"

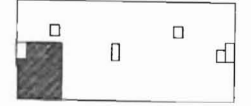
KEYNOTES:

- ① CONNECT FIXTURE TO 120V RECEPTACLE CIRCUIT SERVING THIS ROOM. REFER TO DRAWING E-2.0.

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Key Plan



NORTH



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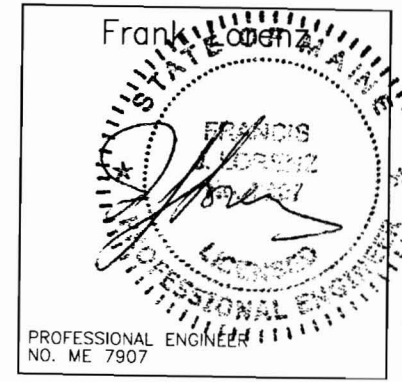
Sheet
**Electrical
Floor Plan
Lighting**

Project
**MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates
Suite 420**

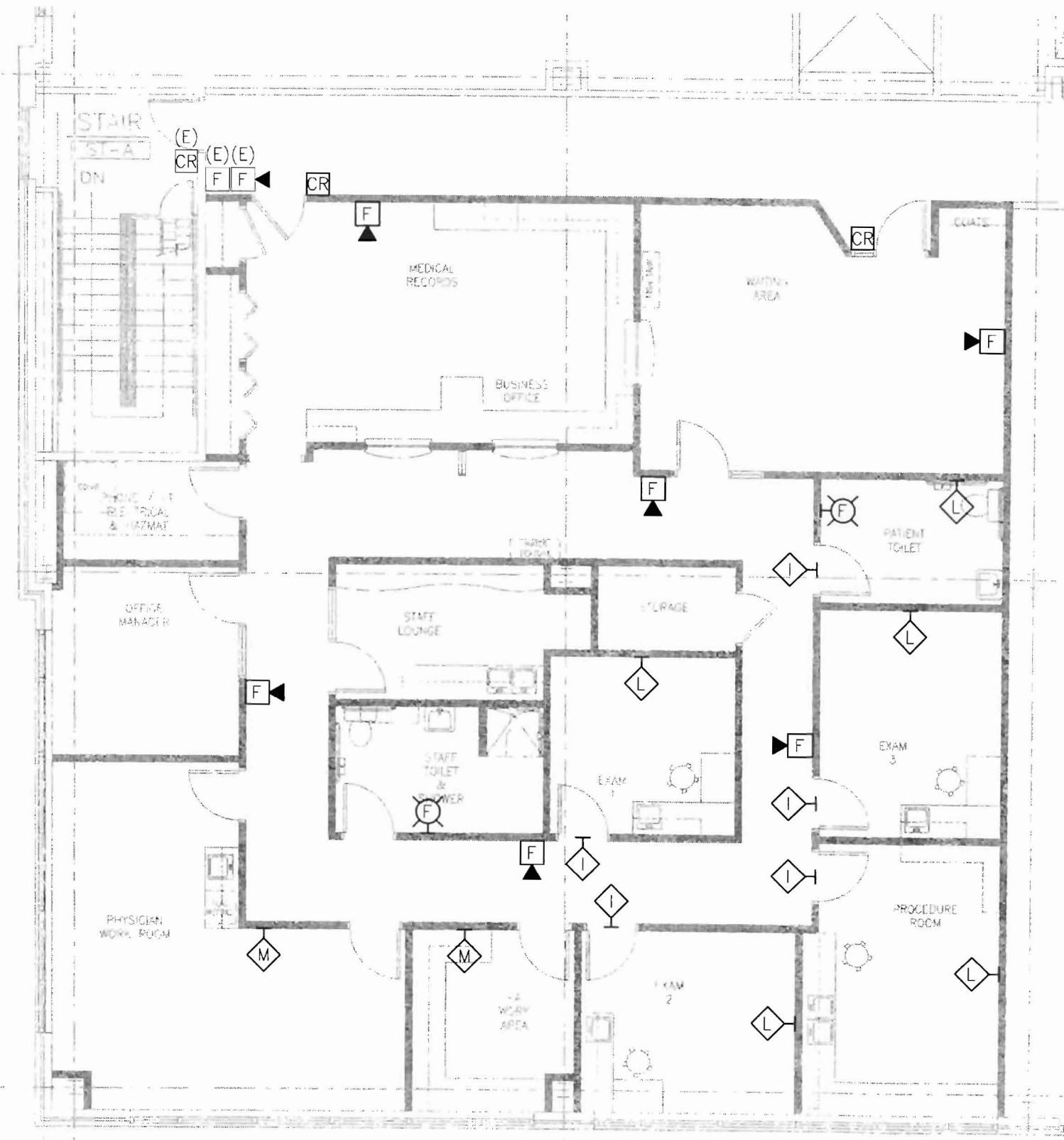
Date
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Project No.
F07-5256.00

Sheet No.
E-3.0



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1 FLOOR PLAN
SCALE: 1/8"=1'-0"

DRAWING NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS OF OUTLETS.
2. COORDINATE FINAL LOCATIONS OF ALL NURSE CALL STATIONS WITH OWNER PRIOR TO INSTALLATION.
3. REFER TO E-6.0, DETAIL 1 FOR TYPICAL SINGLE DOOR CARD READER CONFIGURATION.

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Key Plan



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Sheet

**Electrical
Floor Plan
Misc. Systems**

Project

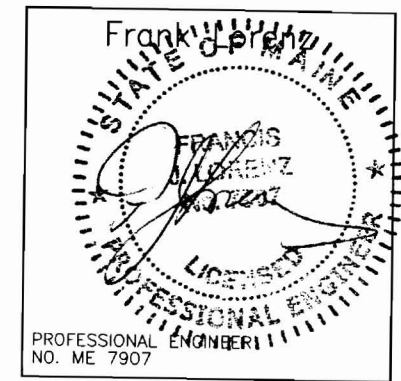
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Portland, Maine
Portland Surgical
Associates**

Suite 420

Date
November 14, 2007

Project No.
F07-5256.00

Sheet No.
E-4.0



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PANEL: (E)RP4 SECTION 1		208 / 120 VOLTS, 3 PHASE 4 WIRE		MAIN BUS: 225 AMPS NEUTRAL: 100%								
LOCATION: ELECTRICAL CLOSET 4TH FL		MOUNTING: <input type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH		<input type="checkbox"/> MAIN LUGS ONLY								
BUILDING:		BUS: <input type="checkbox"/> COPPER <input type="checkbox"/> ALUMINUM		<input type="checkbox"/> MAIN BKR: 225 AMPS								
FED FROM: SEE SINGLE LINE DIAGRAM		GROUND BUS: <input type="checkbox"/>		<input type="checkbox"/> PROVIDE WITH FEED-THRU LUGS								
FEEDER SIZE: SEE SINGLE LINE DIAGRAM		ISOL. GND. BUS: <input type="checkbox"/>		AIC: 10000 AMPS								
CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	REGEN REC - CORR 4001	2A	900	1620			720	2A	REGEN REC - RM 4006	20/1	2
3	20/1	DED REC - TELECOM 4009	2A	360		640		280	2A	ROOFTOP UNIT REC. & LTG	20/1	4
5	20/1	ROOFTOP UNIT REC. & LTG	2A	280			780	500	2A	SECURITY PANEL - TELE RM 4008	20/1	6
7	20/1	EXAM RMS 4417, 4419	2A	1080	2160			1080	2A	EXAM RMS 4414, 4416	20/1	8
9	20/1	EXAM RM 4413, PHYS OFF 4415	2A	1080		1980		900	2A	OFFICE 4410, 4411	20/1	10
11	20/1	NURSE INTAKE 4405, 4407	2A	1080			2160	1080	2A	NURSE INTAKE RMS 4405, 4409	20/1	12
13	20/1	STAFF LOUNGE RM 4407	2A	540	1540			1000	2A	REFRIGERATOR RM 4404	20/1	14
15	20/1	COPPER RM 4402	2A	1000		1540		540	2A	BUSINESS OFFICE RM 4403	20/1	16
17	20/1	BUSINESS OFFICE RM 4402	2A	360			1440	1080	2A	WAITING AREA 4401	20/1	18
19	20/1	LAB & NURSE RM 4415	2A	360	1080			720	2A	LAB & NURSE RM 4415	20/1	20
21	20/1	EXAM RMS 4413, 4409	2A	180		1440		1260	2A	GENERAL RECEPTION CORR 4400	20/1	22
23	20/1	WAITING 4101, EXAM RM 4104	2A	1080			1800	720	2A	PROCEDURE RM 4105	20/1	24
25	20/1	PROCEDURE RM 4105	2A	540	1800			1260	2A	EXAM RMS 4106, 4107	20/1	26
27	20/1	PHYS ASSIST. RM 4108	2A	720		1720		1000	2A	UC FRIDGE RM 4110	20/1	28
29	20/1	PHYS WORK RM 4110	2A	720			2160	1440	2A	GENERAL CORRIDOR 4100	20/1	30
31	20/1	OFFICE MANAGER RM 4112	2A	360	1080			720	2A	STAFF LOUNGE 4111/LT. CLOS 4113	20/1	32
33	20/1	REFRIGERATOR RM 4111	2A	1000		1180		180	2A	IT. CLOSET 4113 DED REC	20/1	34
35	20/1	WATER FEATURE CORR. 4100	2A	1000			1360	360	2A	BUSINESS OFFICE 4114	20/1	36
37	20/1	BUSINESS OFFICE 4114	2A	540	900			360	2A	BUSINESS OFFICE 4114	20/1	38
39	20/1	FISH TANK RM 4101	2A	1000		1000		0	-	SPARE	20/1	40
41	20/1	SPARE	-	0				0	-	SPARE	20/1	42
TOTAL BY PHASE				10180	9500	9700	SPARE = 0%					
TOTAL CONNECTED LOAD =				29380 VA				TOTAL DEMAND LOAD = 19690 VA				
TOTAL CONNECTED AMPS =				82 AMPS				TOTAL DEMAND AMPS = 55 AMPS				

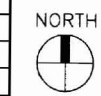
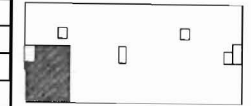
PANEL: (E)RP4 SECTION 2		480 / 277 VOLTS, 3 PHASE 4 WIRE		MAIN BUS: 225 AMPS NEUTRAL: 100%								
LOCATION: ELECTRICAL CLOSET 1ST FLR		MOUNTING: <input type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH		<input type="checkbox"/> MAIN LUGS ONLY								
BUILDING:		BUS: <input type="checkbox"/> COPPER <input type="checkbox"/> ALUMINUM		<input type="checkbox"/> MAIN BKR: 225 AMPS								
FED FROM: SEE SINGLE LINE DIAGRAM		GROUND BUS: <input type="checkbox"/>		<input type="checkbox"/> PROVIDE WITH FEED-THRU LUGS								
FEEDER SIZE: SEE SINGLE LINE DIAGRAM		ISOL. GND. BUS: <input type="checkbox"/>		AIC: 35000 AMPS								
CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/3	VAV-4-5	2B	3200	7433			4233	2C	FPB-4-4	20/3	2
3				3200		7433		4233				4
5				3200			7433	4233				6
7	20/3	FPB-4-3	2C	3366	3366			0				8
9				3366		3366		0				10
11				3366			3366	0				12
13				0	0			0				14
15				0		0		0				16
17				0			0	0				18
19				0	0			0				20
21				0		0		0				22
23				0			0	0				24
25				0	0			0				26
27				0		0		0				28
29				0			0	0				30
31				0	0			0				32
33				0		0		0				34
35				0			0	0				36
37				0	0			0				38
39				0		0		0				40
41				0			0	0				42
TOTAL BY PHASE				10799	10799	10799	SPARE = 0%					
TOTAL CONNECTED LOAD =				32397 VA				TOTAL DEMAND LOAD = 32397 VA				
TOTAL CONNECTED AMPS =				39 AMPS				TOTAL DEMAND AMPS = 39 AMPS				

PANEL: (E)LP4		480 / 277 VOLTS, 3 PHASE 4 WIRE		MAIN BUS: 225 AMPS NEUTRAL: 100%								
LOCATION: ELECTRICAL CLOSET 4TH FL		MOUNTING: <input type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH		<input type="checkbox"/> MAIN LUGS ONLY								
BUILDING:		BUS: <input type="checkbox"/> COPPER <input type="checkbox"/> ALUMINUM		<input type="checkbox"/> MAIN BKR: 225 AMPS								
FED FROM: SEE SINGLE LINE DIAGRAM		GROUND BUS: <input type="checkbox"/>		<input type="checkbox"/> PROVIDE WITH FEED-THRU LUGS								
FEEDER SIZE: SEE SINGLE LINE DIAGRAM		ISOL. GND. BUS: <input type="checkbox"/>		AIC: 35000 AMPS								
CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	CORRIDOR LIGHTING	2A	1124	1875			751	2A	EMERGENCY LIGHTING	20/1	2
3	20/1	E ALL ABOUT WOMEN STE LIGHTING	2A	2560		4285		1728	2A	E ALL ABOUT WOMEN STE LIGHTING	20/1	4
5	20/1	E ALL ABOUT WOMEN STE LIGHTING	2A	2116			3790	1674	2A	PORTLAND SURGICAL LIGHTING	20/1	6
7	20/1	PORTLAND SURGICAL LIGHTING	2A	1144	3152			2008	2A	PORTLAND SURGICAL LIGHTING	20/1	8
9	20/1	SPARE	-	0		0		0	-	SPARE	20/1	10
11	20/1	SPARE	-	0			0	0	-	SPARE	20/1	12
13	20/1	SPARE	-	0		0		0	-	SPARE	20/1	14
15	20/1	SPARE	-	0			0	0	-	SPARE	20/1	16
17	20/1	SPARE	-	0			0	0	-	SPARE	20/1	18
19	20/1	SPARE	-	0		0		0	-	SPARE	20/1	20
21	20/1	SPARE	-	0			0	0	-	SPARE	20/1	22
23	20/1	SPARE	-	0			0	0	-	SPARE	20/1	24
25	20/1	SPARE	-	0		0		0	-	SPARE	20/1	26
27	20/1	SPARE	-	0			0	0	-	SPARE	20/1	28
29	20/1	SPARE	-	0			0	0	-	SPARE	20/1	30
31	20/1	SPARE	-	0		0		0	-	SPARE	20/1	32
33	20/1	SPARE	-	0			0	0	-	SPARE	20/1	34
35	20/1	SPARE	-	0			0	0	-	SPARE	20/1	36
37	20/1	SPARE	-	0		0		0	-	SPARE	20/1	38
39	20/1	SPARE	-	0			0	0	-	SPARE	20/1	40
41	20/1	SPARE	-	0			0	0	-	SPARE	20/1	42
TOTAL BY PHASE				5027	4288	3790	SPARE = 0%					
TOTAL CONNECTED LOAD =				13105 VA				TOTAL DEMAND LOAD = 16381 VA				
TOTAL CONNECTED AMPS =				16 AMPS				TOTAL DEMAND AMPS = 20 AMPS				

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Key Plan



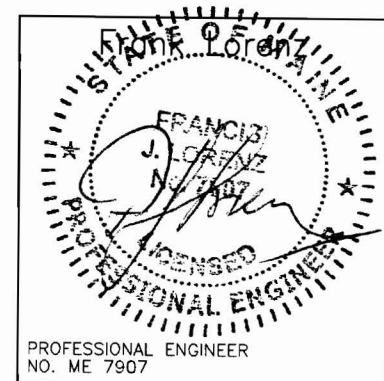
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Portland Surgical
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Suite 420

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November 14, 2007

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E-5.0

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS		FIXTURE WATTS	VOLTS	MOUNTING
				NO.	TYPE			
A	2' X 4' FLUORESCENT LIGHT WITH PRISMATIC ACRYLIC LENS	METALUX LITHONIA	HRD2GCAV432A-EB81 2SPG4D32RWA12-1/4GEBAPB	4	32W T8	128	277	RECESSED
A-1	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE A, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	METALUX LITHONIA	HRD2GCAV432A-EB81 2SPG4D32RWA12-1/4GEBAPB	4	32W T8	128	277	RECESSED
B	2' X 2' FLUORESCENT LIGHT FIXTURE WITH PRISMATIC ACRYLIC LENS	METALUX LITHONIA	HRD2GCAVFA2U6T8A-EB81 2SPG2DU31RWA12-GEBAPB	2	32W T8	64	277	RECESSED
B-1	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE B, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	METALUX LITHONIA	HRD2GCAVFA2U6T8A-EB81EL4 2SPG2DU31RWA12-GEBAPBEL	2	32W T8	64	277	RECESSED
E-3	EXIT LIGHT, SHALL BE CEILING AND WALL MOUNTED, SINGLE OR DOUBLE FACE WITH BATTERY POWER EMERGENCY BACK UP. DIRECTIONAL ARROWS AND LETTER COLOR AS REQUIRED	LITHONIA SURE-LITES MCPHILBEN	PRECISE LRP SERIES ELX SERIES 45V SERIES	-	LED	5	277	CEILING/WALL
H	COMPACT FLUORESCENT LIGHT FIXTURE WITH 1 LAMP FOR STORAGE CLOSETS LESS THAN 50 S.F. SHALL BE FLAT ALBALITE LENS RECESSED FIXTURE WITH ELECTRONIC BALLAST	HALO	H801-277-800P	1	28W DTT	28	277	RECESSED
J	COMPACT FLUORESCENT RECESSED DOWNLIGHT FIXTURE, SHALL BE 7- $\frac{1}{2}$ " DIAMETER OPEN APERTURE WITH CLEAR ALZAK REFLECTOR	PORTFOLIO LITHONIA	C72181H728OLI AF218TRT6AR	2	18W DTT	36	277	RECESSED
M	CEILING MOUNTED CHROMOPHARE PROCEDURE LIGHT	BERCHTOLD	D 540	1	150W HALOGEN	150	120	CEILING

NOTES:

1. FIXTURES MUST UTILIZE MULTILAMP BALLAST. FIXTURES INSTALLED MUST NOT EXCEED FIXTURE WATTAGE LISTED ON SCHEDULE.
2. ALL FIXTURES LISTED FIRST ON SCHEDULE TO BE TAKEN AS BASIS OF DESIGN.
3. ALL NEW FIXTURES SHALL MATCH EXISTING IN BUILDING.

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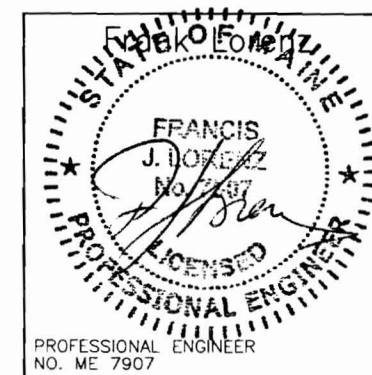
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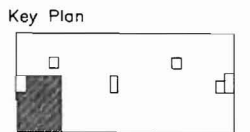
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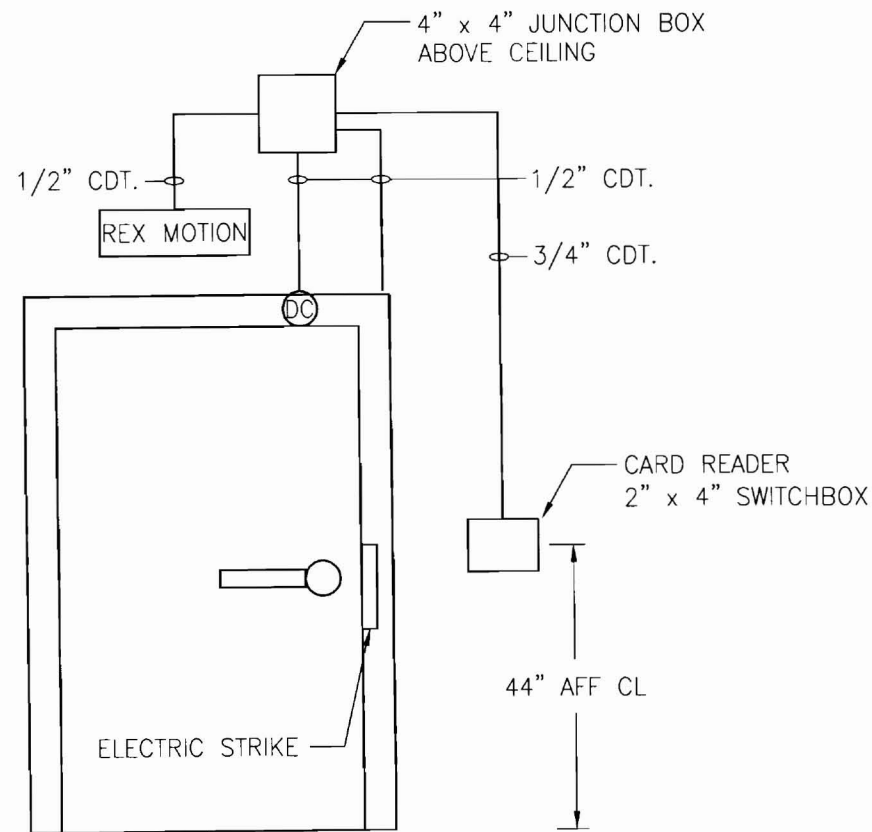


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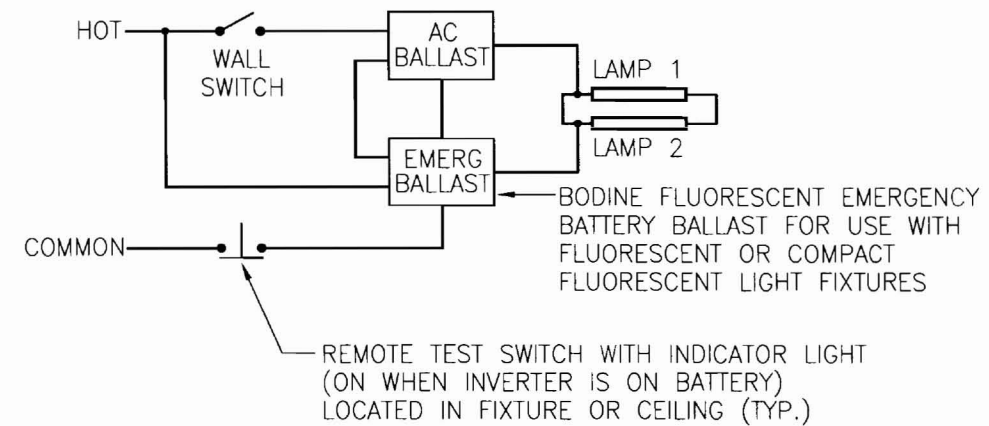
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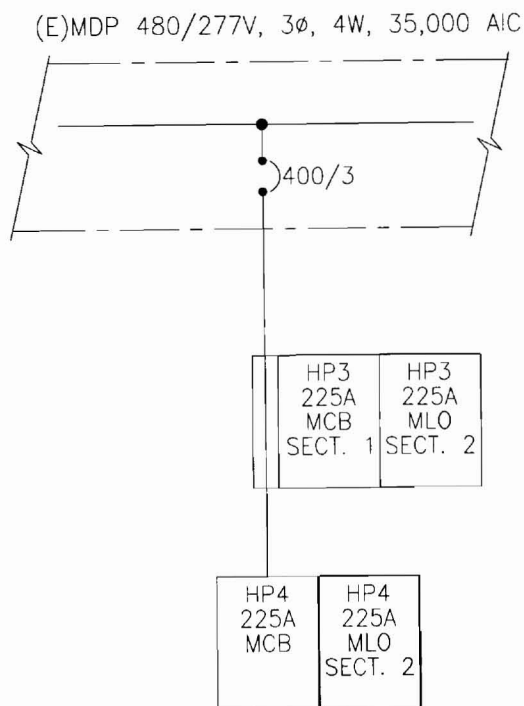


SEQUENCE:
 - NORMAL OPERATION: LIGHT FIXTURE IS SWITCHED AND EMERGENCY BALLAST IS IN CHARGING MODE.
 - EMERGENCY OPERATION: SWITCHED LIGHT FIXTURE WHETHER ON OR OFF ENERGIZES THRU INTERNAL RELAY PREFABRICATED IN EMERGENCY BALLAST.



1 TYPICAL SINGLE DOOR DETAIL
SCALE: N.T.S.

2 NORMAL/EMERGENCY WIRING SCHEMATIC
SCALE: N.T.S.

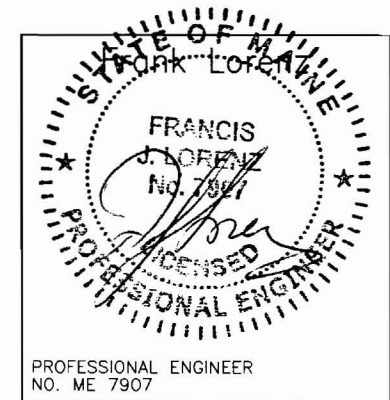


3 PARTIAL SINGLE LINE DIAGRAM
SCALE: N.T.S.

WIRE & CONDUIT SIZING SCHEDULE						
AMPS	TAGS	WIRE SIZE (AWG/KCMIL)		No. OF WIRES AND CONDUIT SIZE (IN INCHES)		
		CONDUCTOR PHASE AND NEUTRAL	GROUND	A 1PH, 2W+G	B 3PH, 3W+G	C 3PH, 4W+G
15	1	14	14	3/4	3/4	3/4
20	2	12	12	3/4	3/4	3/4
30	3	10	10	3/4	3/4	3/4
40	4	8	10	3/4	3/4	3/4
50	5	6	10	3/4	1	1
60	6	4	10	1	1 1/4	1 1/4
70	7	4	8	1	1 1/4	1 1/4
80	8	3	8	1	1 1/4	1 1/4
90	9	2	8	1 1/4	1 1/4	1 1/2
100	10	1	8	1 1/4	1 1/2	2

NOTE:
1. THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE THWN/XHHW AND EMT/RGS CONDUIT

(2B) NUMBER INDICATES FEEDER SIZE IN AMPS AND WIRE
LETTER INDICATES CONDUIT SIZE AND NUMBER OF WIRES



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PLUMBING BASIC SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

	EXISTING PIPING	
	NEW SOIL, WASTE OR SANITARY PIPING	
	VENT PIPING (SANITARY)	
	PIPING BELOW SLAB	
	DOMESTIC COLD WATER PIPING	
	DOMESTIC HOT WATER PIPING (120°)	
	DOMESTIC HOT WATER CIRCULATION PIPING	
	DISCONNECT FROM EXISTING	
	CONNECT TO EXISTING	
	CLEAN OUT/PLUGGED OUTLET	
	CAPPED OUTLET	
	CLEAN-OUT DECK PLATE	
	P-TRAP	
	VACUUM BREAKER	
	BOTTOM PIPE CONNECTION	
	TOP PIPE CONNECTION	
	PIPE DOWN/DROP	
	PIPE RISE/UP	
	TRAP	
<u>EXIST.</u>	<u>NEW</u>	
	MIXING VALVE	
	BALL VALVE	
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY	
	BALANCING VALVE ASSEMBLY	
	RISER DESIGNINATION	
		RISER SERVICE
		RISER NUMBER

PLUMBING ABBREVIATIONS

(NOT ALL ABBREV. ARE NECESSARILY USED ON THIS PROJECT)

CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
CM	COFFEE MAKER
CVO	CAPPED AND VALVED OUTLET
CW	COLD WATER
CLG	CEILING
CONN	CONNECT
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
(E)	EXISTING
FL	FLOOR
FT	FEET
HW	HOT WATER
HWR	HOT WATER RETURN
LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
PO	PLUGGED OUTLET
SAN	SANITARY
SK	SINK
TYP	TYPICAL
UP	UP (PENETRATES FLOOR SLAB)
V	VENT
W	WASTE
WC	WATER CLOSET

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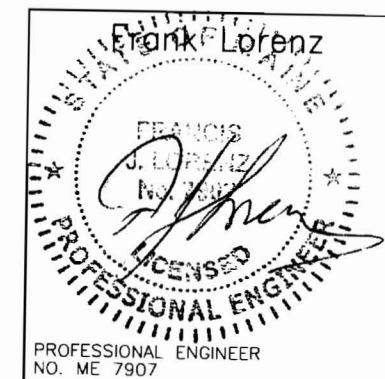
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PLUMBING GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
2. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITY IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
7. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
8. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)
9. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
10. PRODUCTION INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
11. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
12. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
13. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
14. ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR.
15. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK.
16. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERE WITH FIRE-PROOFING WORK.
17. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
18. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
19. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
20. PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUT-OFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
21. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
22. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
23. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
24. PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE. REGULATORS ARE PART OF EQUIPMENT GAS TRAIN.
25. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.

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Plumbing General Notes

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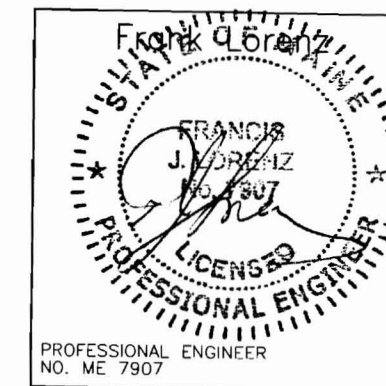
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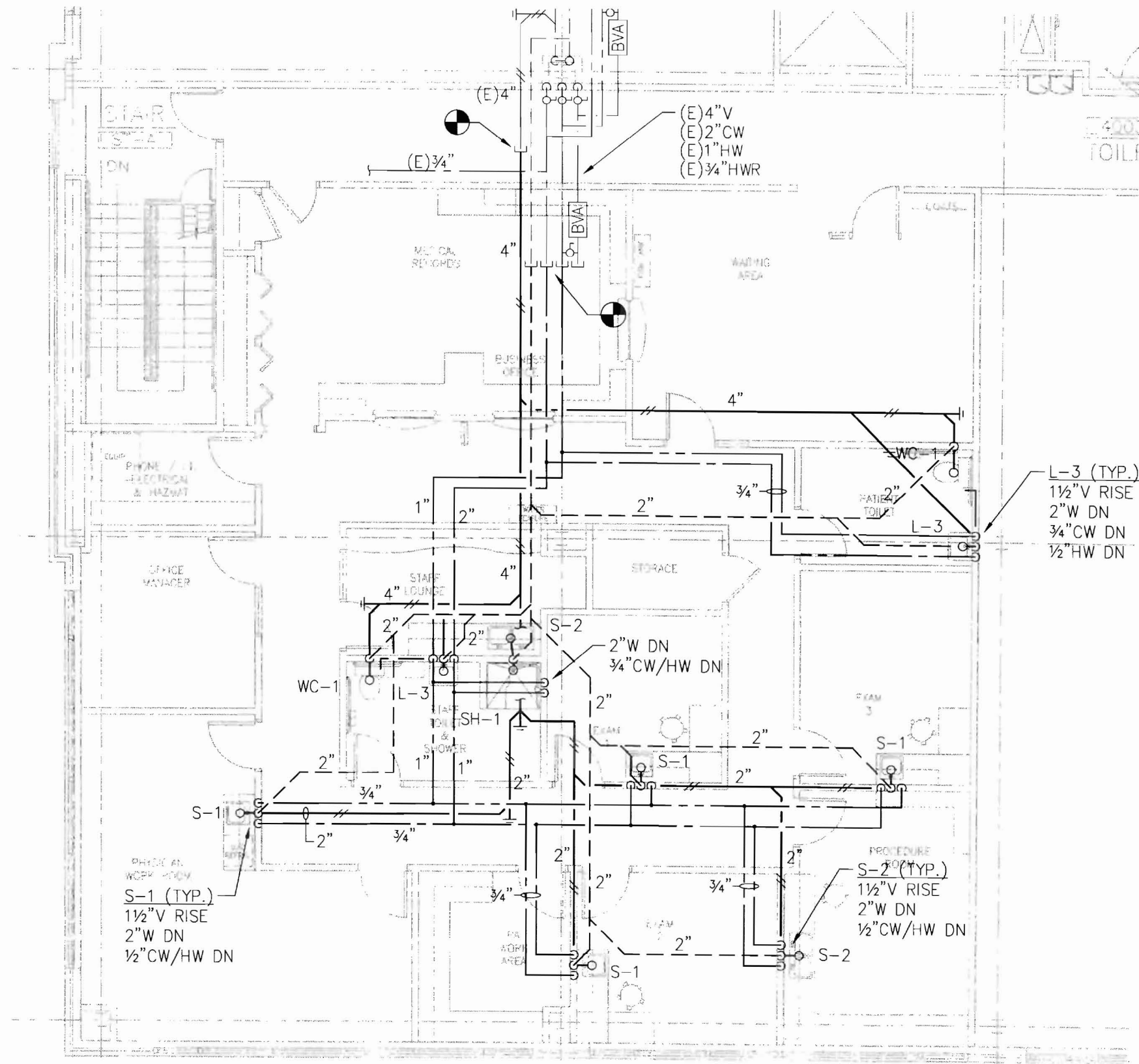
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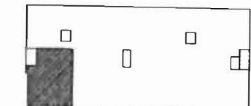


1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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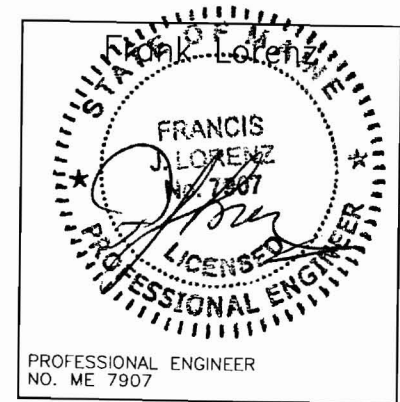
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NO. ME 7907

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PLUMBING FIXTURE SCHEDULE

FIXTURES	FIXTURE #				SERVICE CONNECTION					MANUFACTURER AND EQUIPMENT	MODEL NO.	REMARKS
	WC-1				S	W	V	CW	HW			
WATER CLOSET	WC-1											
FLUSH TANK (BOTTOM OUTLET)	•				4"		2"	1/2"		AMERICAN STANDARD CADET OLSONITE OPEN FRONT SEAT LESS COVER	2377.100 95	
LAVATORIES	L-1	L-2	L-3									
PRIVATE			•			1 1/2"	1 1/2"	1/2"	1/2"	SK: ELJER FAUCET: ELJER DRAIN: ELJER	051-2101 3571002 POP-UP	FURNISH OFFSET TRAP, VALVE STOPS, RISERS AND INSULATION KIT.
SINKS	S-1	S-2	S-3									
EXAM	•					2"	1 1/2"	3/4"	3/4"	SK: ELKAY FAUCET: ELKAY DRAIN: ELKAY	BCR-15 LK411ABH4 LK36	
PANTRY		•				2"	1 1/2"	3/4"	3/4"	SK: ELKAY FAUCET: ELKAY DRAIN: ELKAY HOT WATER DISPENSER: INSINKERATOR	CR-3321 LK4380FCR (2)LK35L HOT1	
LABORATORY			•			2"	1 1/2"	3/4"	3/4"	SK: ELKAY FAUCET: ELKAY DRAIN: ELKAY	CR-2521 LK411ABH4 LK35	
SHOWER	SH-1											
SHOWER	•					2"	1 1/2"	3/4"	3/4"	SHOWER: LASCO BATHWARE FAUCET INCLUDED	1363BFSC	PROVIDE GRAB BAR, CUSHIONED SEAT, HAND HELD SHOWER HEAD, PRESSURE BALANCING MIXING VALVE, CURTAIN ROD & SHOWER CURTAIN

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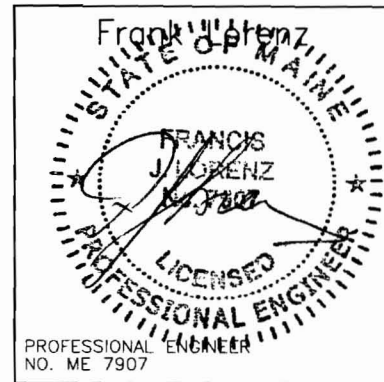
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NOTES:

1. THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES SHALL BE AS PER THE ARCHITECTURAL DRAWINGS.
2. ALL SINKS AND LAVATORIES THAT ARE HANDICAPPED ACCESSIBLE SHALL BE PROVIDED WITH THERMAL AND IMPACT INSULATION/SHIELDING KITS ON SUPPLIES, TRAPS, TAILPIECES AND WASTE OUTLETS.

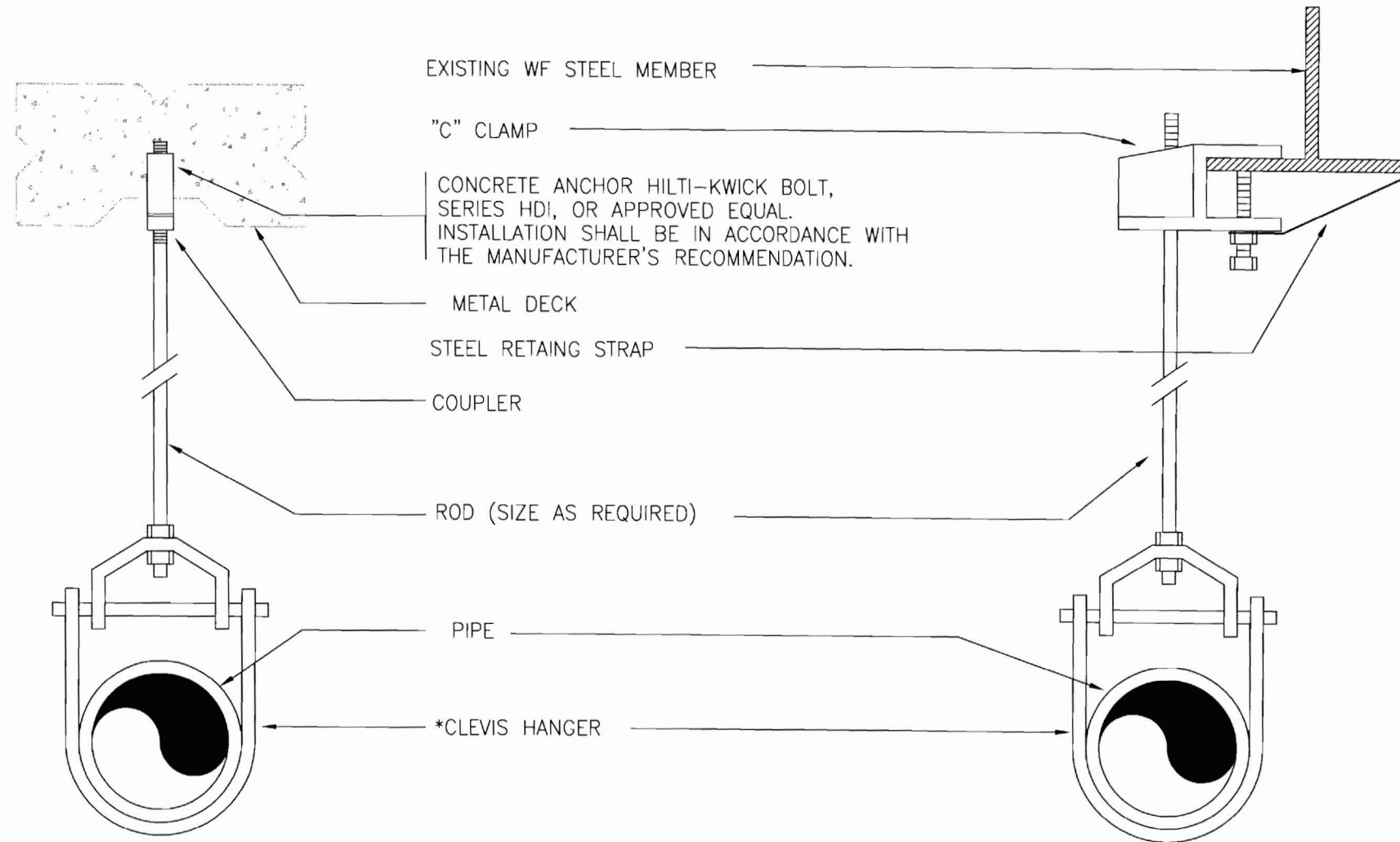


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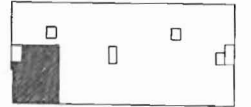
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* CLEVIS HANGERS REQUIRED ON PIPING LARGER 1".
GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

TYPICAL HANGER DETAIL

Key Plan



NORTH



Revisions

AKF engineers

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Plumbing Details

Project

MERCY HOSPITAL
Medical Office Bldg.
Portland, Maine
Portland Surgical
Associates

Suite 420

Date

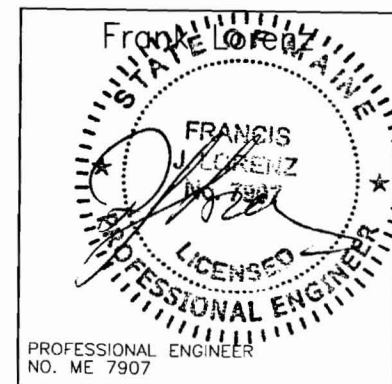
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Key Plan

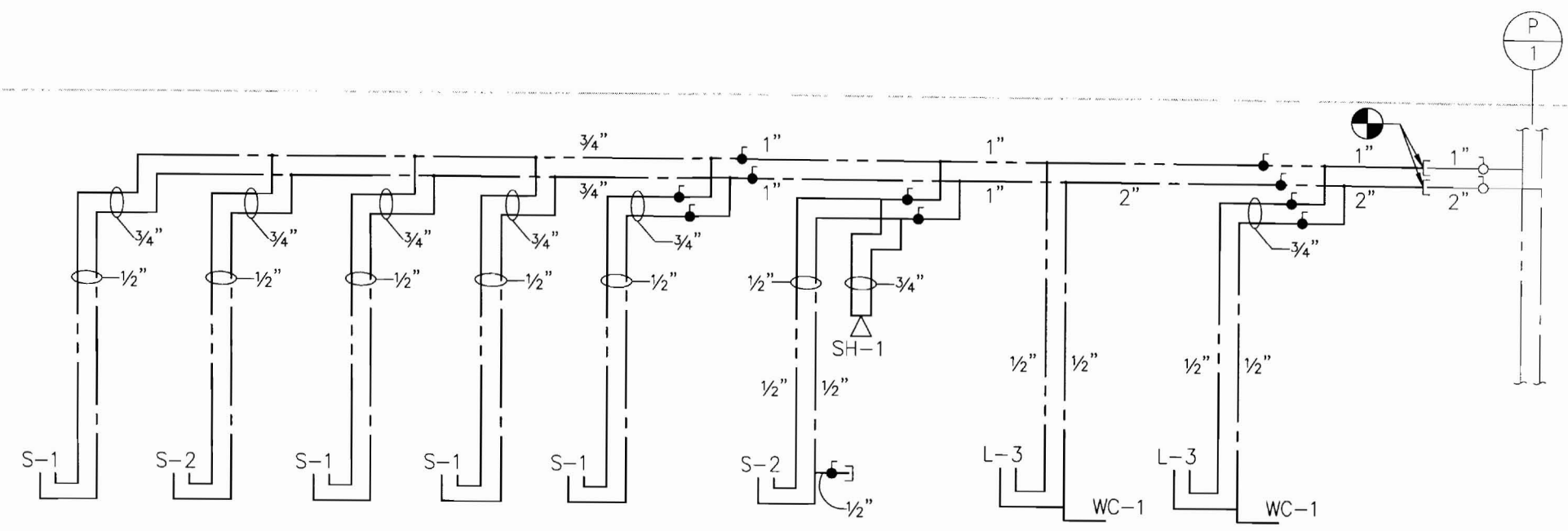


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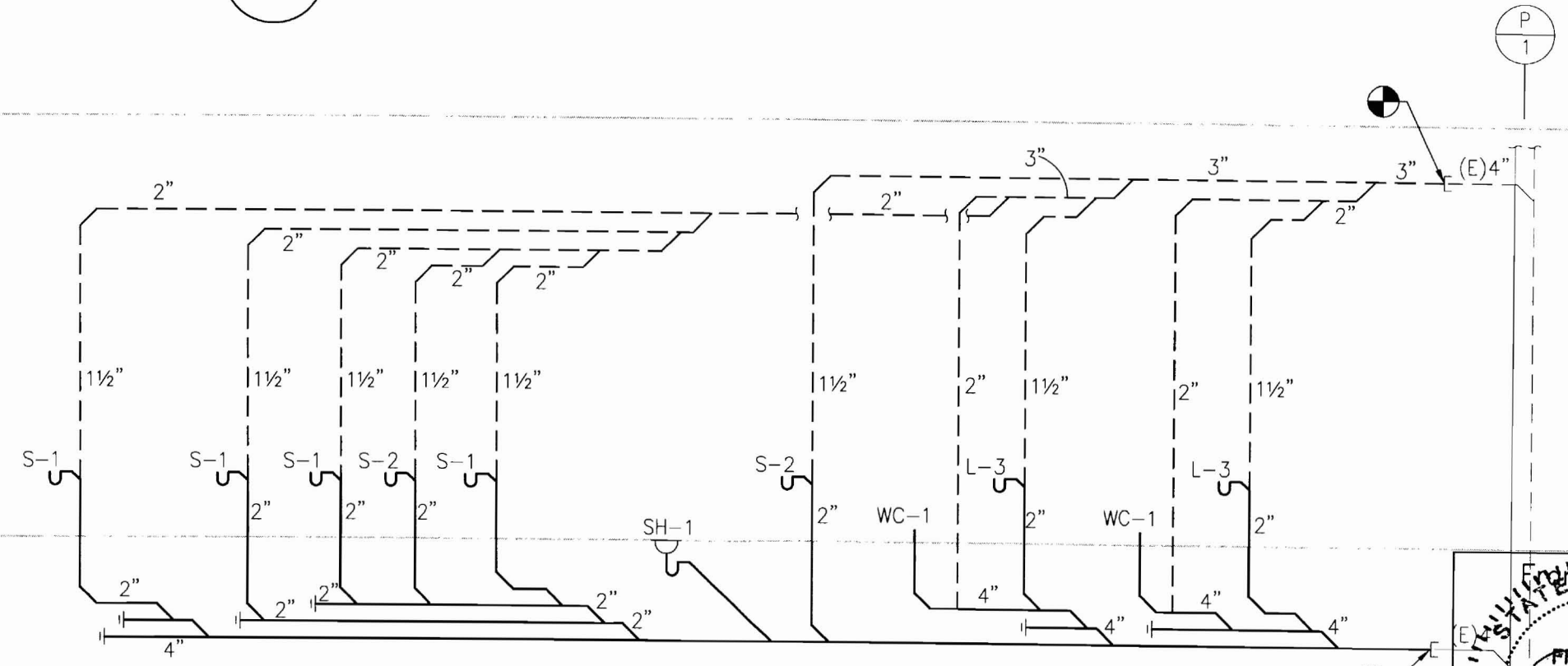
5TH FL



4TH FL

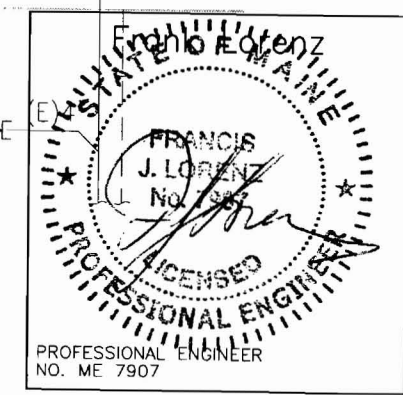
1 DOMESTIC WATER RISER DIAGRAM
SCALE: NTS

5TH FL



4TH FL

2 SANITARY RISER DIAGRAM
SCALE: NTS



A K F
engineers

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**Plumbing
Riser Diagrams**

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FIRE PROTECTION SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

	EXISTING PIPING
	NEW PIPING
	EXISTING PIPING TO BE REMOVED
	EXISTING SPRINKLER HEAD
	EXISTING SPRINKLER HEAD TO BE REMOVED
	NEW CONCEALED SPRINKLER HEAD
	NEW PENDENT SPRINKLER HEAD
	NEW UPRIGHT SPRINKLER HEAD
	NEW SIDE WALL SPRINKLER HEAD
	EXTEND EXISTING SPRINKLER PIPING TO NEW SPRINKLER HEAD
	FIRE EXTINGUISHER IN CABINET
	FIRE EXTINGUISHER WALL HUNG
	HYDRAULIC REFERENCE POINT
	SPRINKLER CONTROL VALVE
	PIPE UP/RISE
	PIPE DN/DROP
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING
FHV	FIRE HOSE VALVE
FSP	FIRE STANDPIPE
SPKR	SPRINKLER
U.O.N.	UNLESS OTHERWISE NOTED

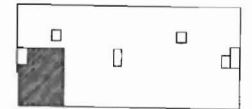
FIRE PROTECTION GENERAL NOTES:

1. PROVIDE WET-PIPE SPRINKLERS IN ALL AREAS. PROVIDE DRY-TYPE SPRINKLER SYSTEM IN ALL AREAS WHERE AMBIENT TEMPERATURE IS 40 DEG F OR BELOW.
2. SECURE WATER FLOW TEST DATA TAKEN FROM FIRE HYDRANTS NEAREST SITE. IF RECENT FLOW TEST DATA IS NOT AVAILABLE FROM CITY RECORDS, MAKE NECESSARY TESTS AS REQUIRED BY NFPA STANDARDS TO DETERMINE CHARACTER OF WATER SUPPLY. MINIMUM OF 20 PSI DROP IN PRESSURE BETWEEN STATIC AND RESIDUAL PRESSURE SHALL BE REQUIRED IN ORDER TO OBTAIN ACCURATE DATA.
3. SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED FOR LIGHT HAZARD OCCUPANCY EXCEPT AS NOTED.
4. SPRINKLERS FOR GENERAL AREAS SHALL BE TYPE AS SCHEDULED, 165 DEG F RATED, HYDRAULICALLY DESIGNED TO PROVIDE 0.10 GPM/SQ FT OVER MOST REMOTE 1500 SQ FT PLUS 50 GPM FOR HOSE STREAM. MAXIMUM PROTECTION AREA PER SPRINKLER SHALL BE 225 SQ FT. ROOM DESIGN METHOD ACCEPTABLE.
6. ADD 10% CONTINGENCY FACTOR TO HYDRAULIC CALCULATIONS.
7. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILING SHALL BE AS INDICATED ON REFLECTED CEILING PLANS.
8. MINIMUM PRESSURE AT END SPRINKLER HEAD 7 PSI.
9. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13 AND FACTORY MUTUAL 0.5 2-8N.
 - A. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH LIGHTWALL PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA-13 SHALL BE INCREASED BY 39%.
10. MAXIMUM FLOW VELOCITY SHALL NOT EXCEED 32 F.P.S.
11. ALL AUTOMATIC SPRINKLER HEADS, PIPE FITTINGS, PIPE HANGERS, AUTOMATIC CONTROL VALVES AND MANUAL CONTROL VALVES SHALL BEAR FACTORY MUTUAL APPROVAL AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
12. ALL EXPOSED PIPE, FITTINGS, HANGERS AND SUPPLEMENTARY STEEL SHALL BE PAINTED.
13. ENDS OF ALL CROSS MAINS SHALL BE PROVIDED WITH THREADED FLUSHING CONNECTION NO MORE THAN 2 INCHES IN DIAMETER.
14. PROVIDE AUXILIARY DRAINS FOR ALL BELOW DUCT SPRINKLERS AND OTHER TRAPPED SECTIONS. PIPING TO ONE SINGLE SPRINKLER IS EXCLUDED.
15. PROVIDE FLUSHING CONNECTIONS WHERE REQUIRED BY NFPA AND F.M.
16. COORDINATE WITH OWNER FOR ALL SHUTDOWNS.
17. PROVIDE TEST CONNECTIONS AT HIGHEST POINT OF MAIN PORTION OF EACH SPRINKLER SYSTEM, WITH 1" PIPE AND VALVE. TEST PIPE SHALL BE CONNECTED TO SPRINKLER PIPE AT LEAST 1-1/4" IN SIZE AND SHALL DISCHARGE OUTSIDE BUILDING OR THROUGH 1/2" SMOOTH BORE BRASS OUTLET, WHERE IT CAN BE EASILY SEEN.
18. PROVIDE ADDITIONAL HEADS UNDER DUCTWORK LARGER THAN 48" WIDE.

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Key Plan



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Fire Protection Cover Sheet

Project

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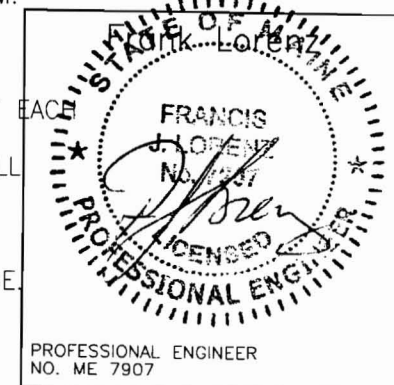
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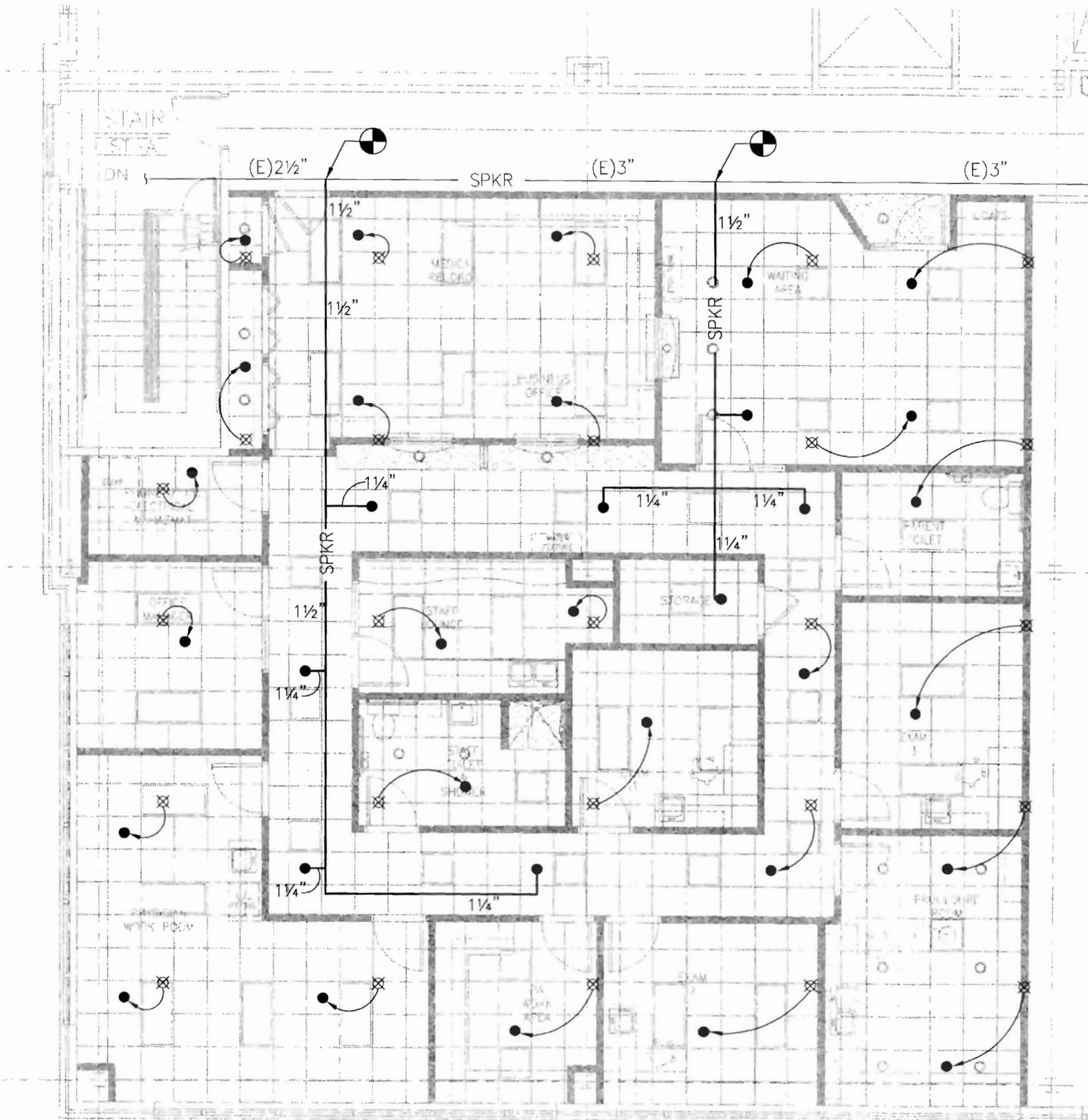
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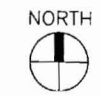
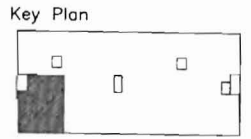


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1 FLOOR PLAN
SCALE: 1/8"=1'-0"

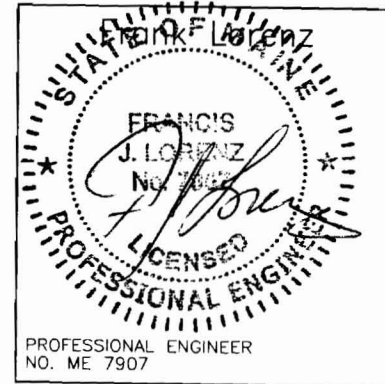
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**Fire Protection
Floor Plan**



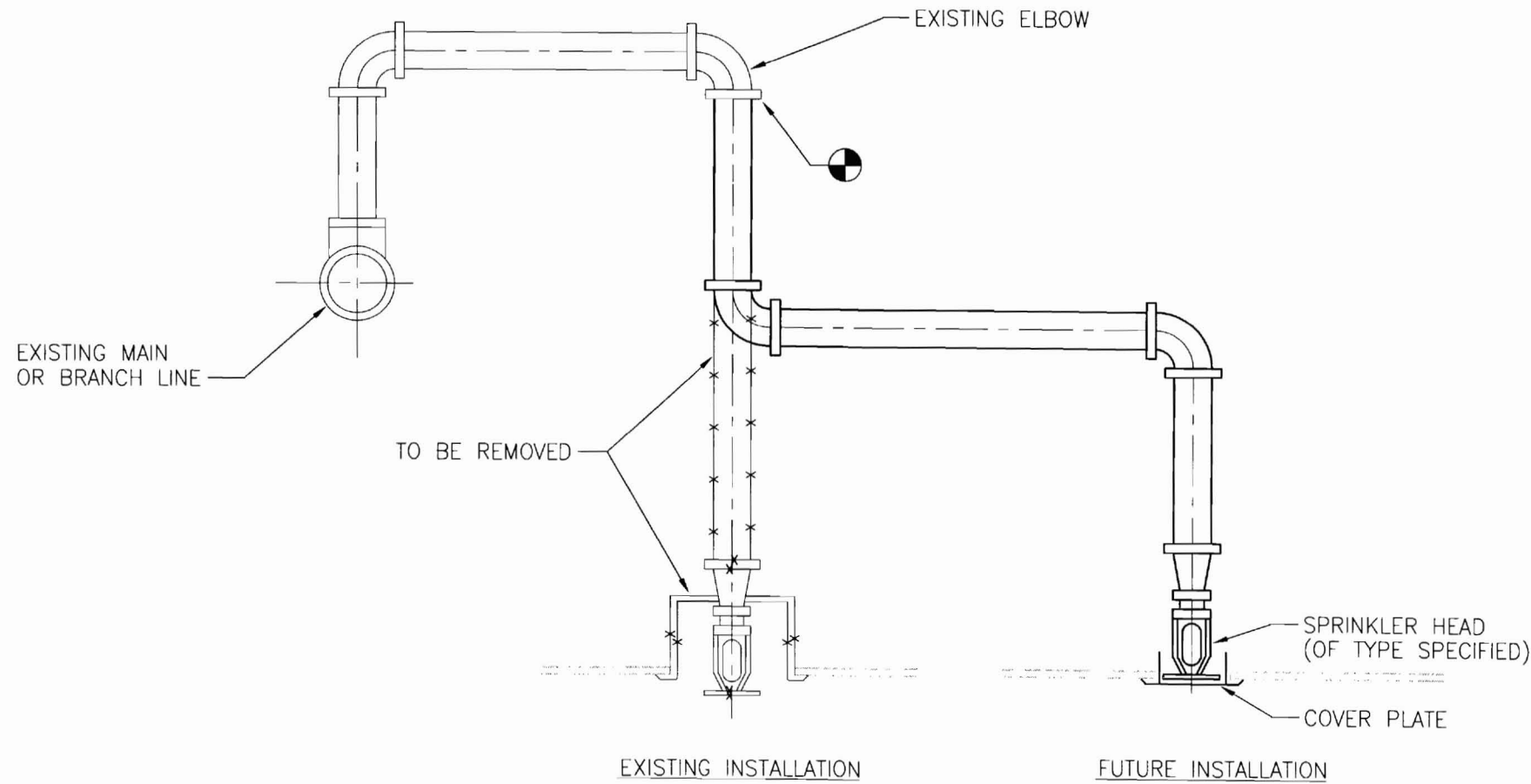
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SPRINKLER HEAD SCHEDULE																			
TYPE	DESIGNATION	UPRIGHT	PENDENT	FLUSH PLATE SPKR.	RECESSED	SIDEWALL (CHROME FINISH)	SIDEWALL (NATURAL BRONZE FINISH)	FLUSH PENDENT	DRY	QUICK RESPONSE	EXTENDED COVERAGE	EXIST SPR HO TO BE REMOVED/RELOCATED	EXIST SPRINKLER HD	MANUFACTURER					REMARKS
														CENTRAL	RELIABLE	GRINNELL	STAR	VIKING	
														MODEL NUMBER					
	○												●						
	⊗											●							
	●			●						●					F4FR		K=5.6, 1/2" ORIFICE 165°F RATING		

NOTES:

1. PROVIDE ESCUTCHEONS WHEN PENETRATING EXPOSED WALL.
2. COLOR SELECTION BY ARCHITECT.



TYPICAL SPRINKLER RELOCATION

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Fire Protection Schedules And Details

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