Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

B... INSPECTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 071609

PERMIT ISSUED
OCT 16 2007
CITY OF PORTLAND

This is to certify that EDCL LLC /TBD

has permission to Interior & exterior renovation

AT 23 HAMPSHIRE ST C... 028 P003001

provided that the person or persons, firm or ... cepting this permit shall comply with all of the provisions of the Statutes of M...ine and of th... ances of the City of Portland regulating the construction, maintenance and u... of buildings and st...ctures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

N...fication ... inspec...n must ... g...n and w...n permis...n procu... b...re this ...ding or ...t thereo... la...ed or c... ...losed-in. ... H...R NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Greg Cass

Health Dept. _____

Appeal Board _____

Other _____
Department Name

Director - Building & Inspection Services

10/15/07

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
07-1009		028 P003001

Location of Construction:	Owner Name:	Owner Address:	Phone:
23 HAMPSHIRE ST	EDCL LLC	34 MAIN ST STE 2A	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	TBD	Portland	
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Alterations - Commercial	R-6

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Residential multi-family legal use - 3 dv (permit 07-0380)	Residential multi-family Interior & exterior renovations	$1,095.00	$100,000.00	1

FIRE DEPT: ☑ Approved ☐ Denied
See Conditions
Signature: (Greg Cass)

INSPECTION:
Use Group: R2 Type: 3B
IBC-2003
Signature: MB 10/15/07

Proposed Project Description:
Interior & exterior renovations
(connected to interior demo permit 07-0380)

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied
Signature: Date:

Permit Taken By:	Date Applied For:
dmartin	08/17/2007

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
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..

PERMIT ISSUED
OCT 15
CITY OF PORTLAND

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Ok w/ conditions Date: 8/24/07	Date:	Date: ABM

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

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

_____ **Footing/Building Location Inspection:** Prior to pouring concrete

_____ **Re-Bar Schedule Inspection:** Prior to pouring concrete

_____ **Foundation Inspection:** Prior to placing ANY backfill

_____ **Framing/Rough Plumbing/Electrical:** Prior to any insulating or drywalling

_____ **Final/Certificate of Occupancy:** Prior to any occupancy of the structure or use. NOTE: There is a $75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects **DO** require a final inspection

_____ **If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

_____ **CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED**

Robert Perkins 10-16-07

Signature of Applicant/Designee Date

Lori Danforth /Admin. 10/16/2007

Signature of Inspections Official Date

CBL: ______________ Building Permit #: ______________

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
07-1009	08/17/2007	028 P003001

Location of Construction:	Owner Name:	Owner Address:	Phone:
23 Hampshire St	EDCL LLC	34 MAIN ST STE 2A	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	TBD	Portland	
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Alterations - Multi Family	

Proposed Use:	Proposed Project Description:
Residential multi-family - three family - Interior & exterior renovations	Interior & exterior renovations (interior demo permit #07 0380)

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 08/24/2007

Note: This permit is for interior and exterior renovations. There will be a future permit to demo the exisitng garage and rebuild it, **Ok to Issue:** ☑

1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

2) This property shall remain a three family dwelling. Any change of use shall require a separate permit application for review and approval.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 10/15/2007

Note: **Ok to Issue:** ☑

1) Separate permits are required for any electrical, plumbing, or HVAC systems.
Separate plans may need to be submitted for approval as a part of this process.

2) All penetratios through rated assemblies must be protected by an approved firestop system installed as tested in accordance with ASTM 814 or UL 1479, per IBC 2003 Section 712.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Greg Cass **Approval Date:** 08/24/2007

Note: **Ok to Issue:** ☑

1) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance.
Compliance letters are required.

2) All construction shall comply with NFPA 101

Comments:

10/2/2007-jmb: Per our conversation today, here are the items that need to be addressed to continue the plan review process:
1. Specific details on the UL design of the rated wall and floor/ceiling assemblies.
2. Reference to the chimney clearance to new framing and draftstop detail.
3. Electrical plans detailing smoke detector location and UL listing of fixtures penetrating rated assemblies.
4. Details of all structural changes.
One that I forgot:
5. Identify hazardous glazing requirements
Thanks
Jeanie Bourke
Inspection Services Division Director

10/11/2007-jmb: Spoke with Curtis D., apparently I sent the wrong email to the architect. Resent, they will provide plans.

10/12/2007-jmb: Plans submitted for the requested information.

Location of Construction:	Owner Name:	Owner Address:	Phone:
23 Hampshire St	EDCL LLC	34 MAIN ST STE 2A	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	TBD	Portland	
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Alterations - Multi Family	

10/15/2007-jmb: Left msg. For Curtis to call. Curtis called back, verified there will be some penetrations of fixtures in the floor ceiling assembly, condition for firestop, ok to issue

General 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: 23 Hampshire Street, Portland, Maine		
Total Square Footage of Proposed Structure 4,400 Square Feet	Square Footage of Lot 2,117 Square Feet	
Tax Assessor's Chart, Block & Lot Chart# 28 Block# P Lot# 3 and 17	Owner: EDCL, LLC 134 Main Street, Winthrop, ME 04364	Telephone: (207) 377-8977
Lessee/Buyer's Name (If Applicable) N/A	Applicant name, address & telephone: Curtis S. Dow Buck Consulting Group, LLC 16 Tannery Lane PO Box 1367 Camden, ME 04843 (207) 236-9970	Cost Of Work: $100,000.00 Fee: $1,020.00 C of O Fee: $75.00 Total Fee: $1,095.00

Current legal use (i.e. single family) Multi-Family
If vacant, what was the previous use? Multi-Family
Proposed Specific use: Multi-Family
Is property part of a subdivision? No If yes, please name N/A
Project description:
Renovate existing three story muliti-family residence pusuant to local codes and ordinances with an updated layout, an automatic fire supression system in accordance with NFPA Standard 13R, MEP systems and finishes for the purpose of providing habitable, climate controlled living spaces.

Contractor's name, address & telephone: TBD – Work to be competitively bid

Who should we contact when the permit is ready: Curtis S. Dow, Buck Consulting Group, LLC
Mailing address: P.O. Box 1367, Camden, ME 04843 Phone: (207) 236-9970

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

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 codes applicable to this permit.

Signature of applicant: **Date:** 8/16/07

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

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
AUG 17 2007
RECEIVED

1530

Jeanie Bourke - 23 Hampshire permit

From: Jeanie Bourke
To: hansonarchitect@msn.com
Subject: 23 Hampshire permit

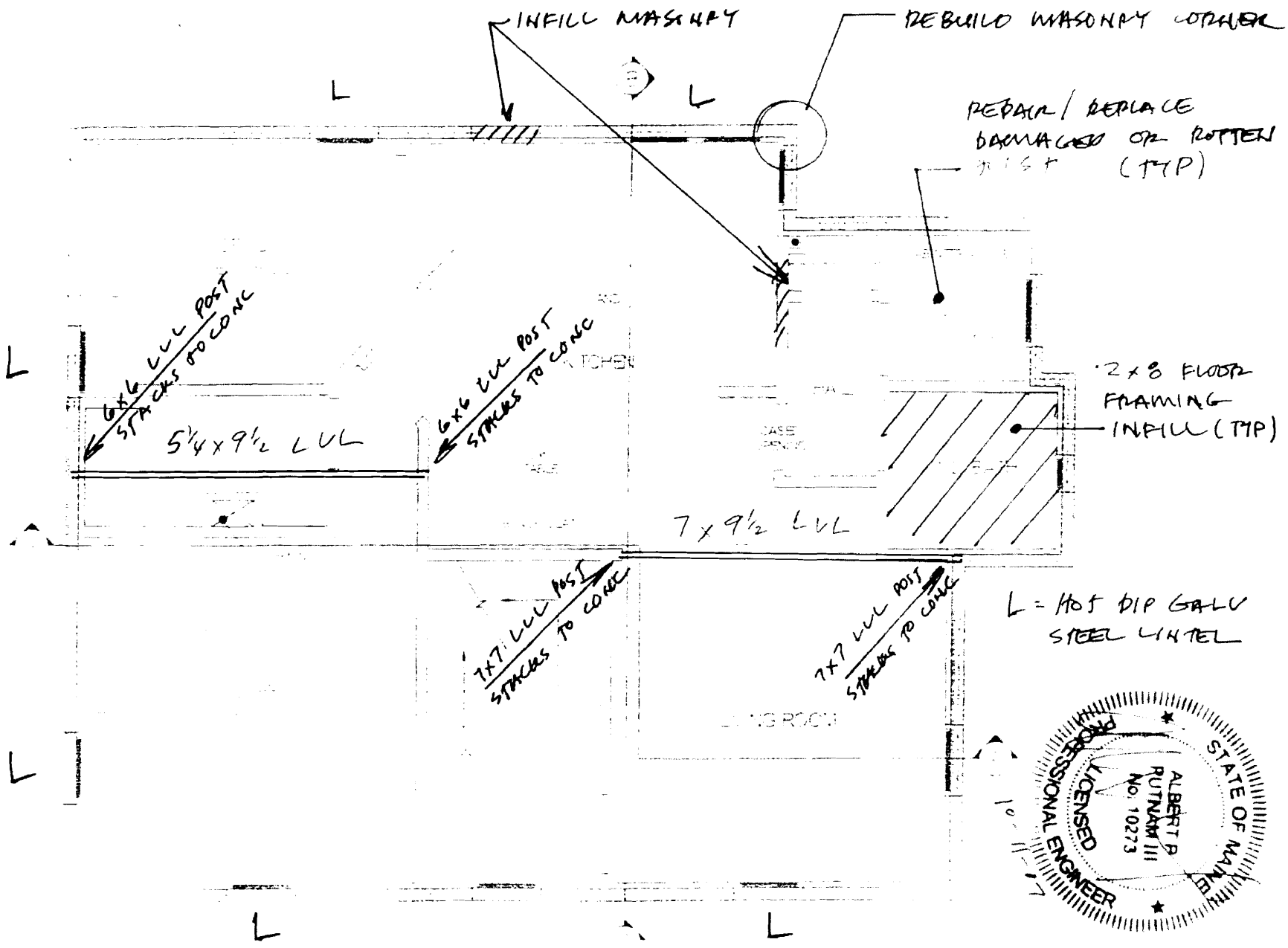
Per our conversation today, here are the items that need to be addressed to continue the plan review process:

1. Specific details on the UL design of the rated wall and floor/ceiling assemblies.
2. Reference to the chimney clearance to new framing and draftstop detail.
3. Electrical plans detailing smoke detector location and UL listing of fixtures penetrating rated assemblies.
4. Details of all structural changes.

One that I forgot:

5. Identify hazardous glazing requirements

Thanks



THIRD FLOOR FRAMING PLAN

3/16" = 1'-0"

ISSUED FOR PERMIT

NOT FOR CONSTRUCTION

SK-01

SHEET 2 OF 3

10-11-07

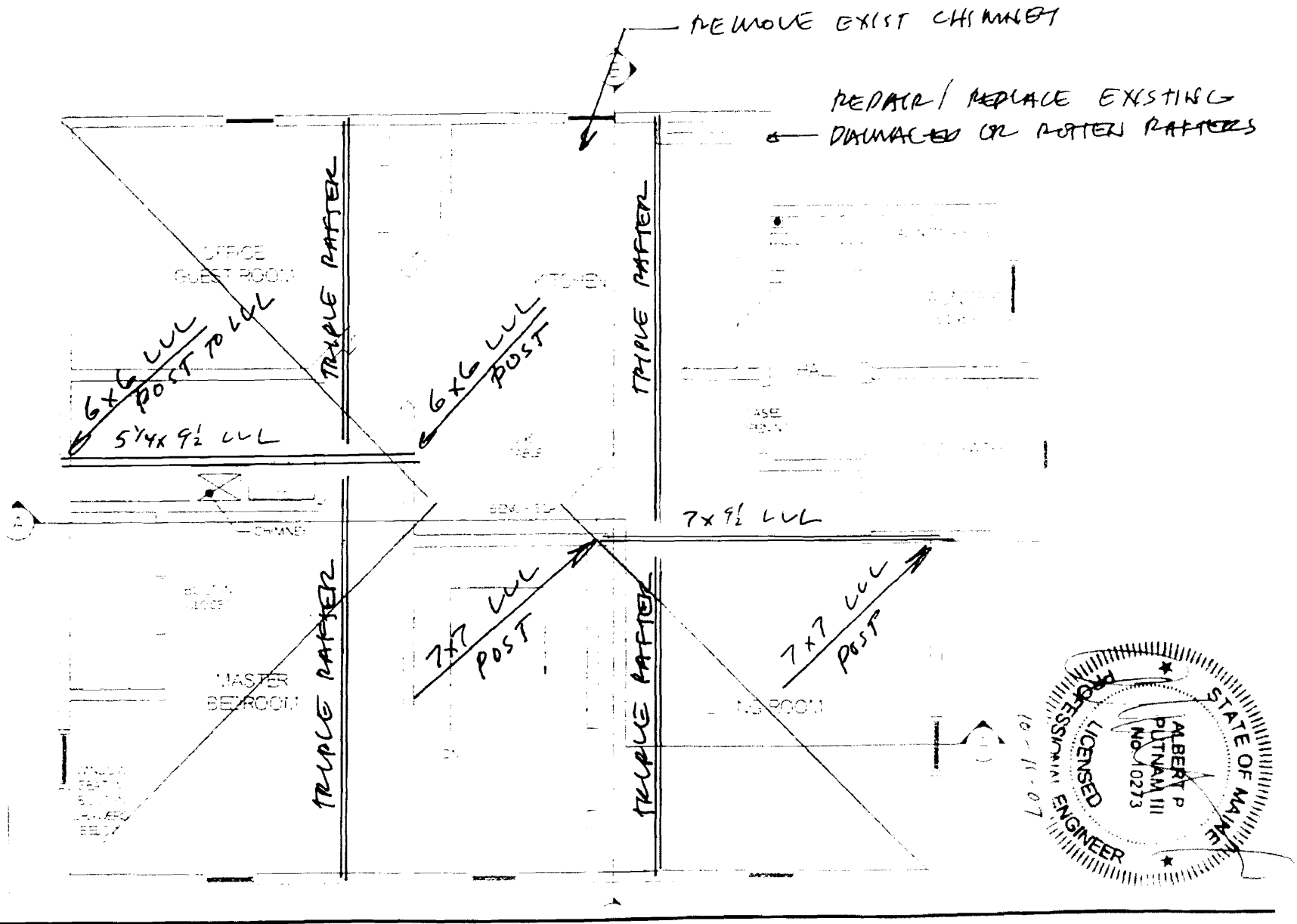
23 HAMPSHIRE STREET

PORTLAND, MAINE

ALBERT PUTNAM, PE

ROOF FRAMING PLAN

3/16" = 1'-0"



ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

ALBERT PUTNAM, PE

23 HAMPSHIRE STREET

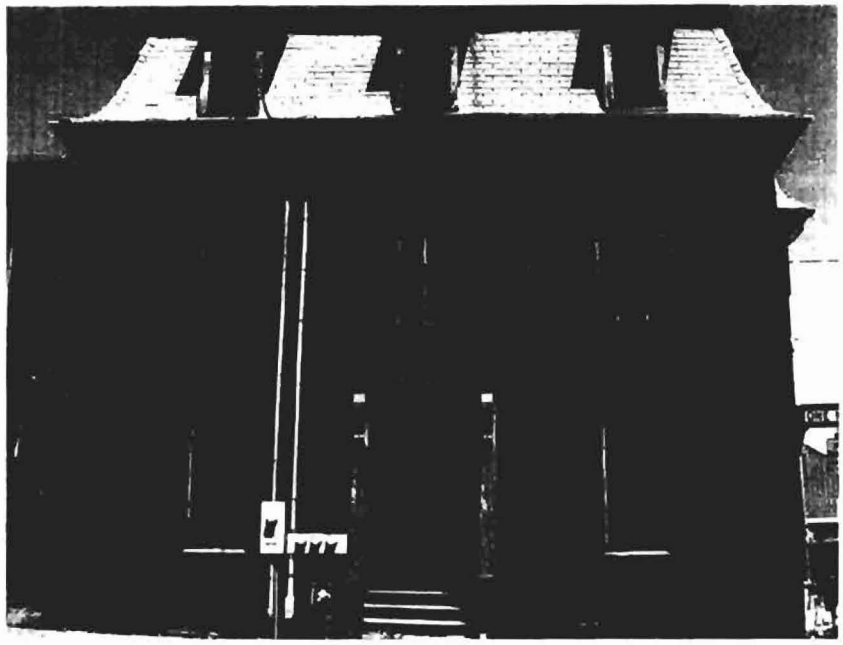
PORTLAND, MAINE

SK-01

SHEET 1 OF 3
10-11-07

City of Portland
Building Permit Application

23 Hampshire Street
Portland, Maine



August 16, 2007

Buck Consulting Group, LLC
16 Tannery Lane, Suite 23
PO Box 1367
Camden, ME 04843
(207) 236-9970 Office
(207) 236-9971 Facsimile
www.bcgmaine.com

Table of Contents

BUCK CONSULTING GROUP, LLC
16 Tannery Lane, Suite 23
PO Box 1367, Camden, Maine 04843
Office: 207-236-9970
Facsimile: 207-236-9971
Website: www.bcgmaine.com

August 16, 2007

Planning & Development Office
City of Portland, Maine
389 Congress Street
Portland, Maine 04101

RE: 23 Hamshire Street
Building permit Application

To whom it may concern:

Please accept this letter and provided documents, as a request by Buck Consulting Group, LLC to obtain a Building Permit for alteration and renovation work in connection with the property located at 23 Hampshire Street, Portland, Maine.

The applicant is proposing to renovate the existing three unit residential building. The building is approximately 4,400 square foot or 1,100 square foot per floor (inclusive of basement level).

The proposed interior alterations to the property are primarily upgrading the existing layouts. Items to be undertaken include the following:

- Replace the windows with energy efficient windows that simulate original windows (double hung);
- Remove and replace doors with energy efficient doors;
- Relocate interior walls as necesaary to accommodate proposed floor plans;
- Install and automatic sprinkler system (pursuant to NFPA Standard 13R);
- Renovate building so that it will conform to local codes, ordinances and life safety requirements.

The proposed exterior alterations to the property are primarily to restore the exterior to its original appearance. Items to be undertaken include the following:

- Repair the existing brick exterior and repoint as necessary;
- Restore brick chimney's as necessary;
- Replace the windows with energy efficient windows that simulate original windows;
- Replace existing porches to match existing;

The proposed site infrastructure consists of the following:

Spoke to Curtis Dow. This will be done at a later date when do work on garage on separate permit.

- Reconfiguring the existing parking area for efficiency as well as vehicular and pedestrian safety.
- Augmenting the existing landscaping on the property to enhance the exterior landscape amenities.
- Domestic water service shall continue to be supplied by the public system supplier.
- Sanitary service shall continue to be connected to public systems. No septic fields are proposed on site. It is estimated that the flows will not be impacted due to there being no proposed change in use.

The property, which currently has no fire protection system, will be equipped with an automatic fire suppression system, pursuant to NFPA Standard 13R requirements.

Thank you for considering our request, if at any time you should have questions, please feel free to contact me directly at 207-236-9970.

Sincerely,

Curtis S. Dow
Executive Vice President
Buck Consulting Group, LLC

Accessibility Building Code Certificate

Designer: John E. Hansen, Architect

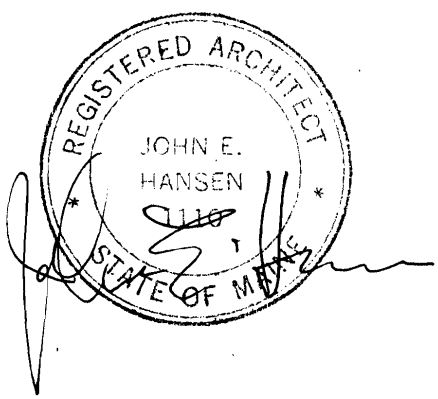
Address of Project: 23 Hampshire St. Portland

Nature of Project: 3 Unit apartment remodeling

3-story Type IIIb construction

Exempt from standards of ANSI A-117.1

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature:

Title: Architect

Firm: John Hansen, Architect

Address: 632 Spruce Head Rd.
South Thomaston, ME 04858

Phone: 207-594-5310

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

Certificate of Design

Date: August 8, 2007

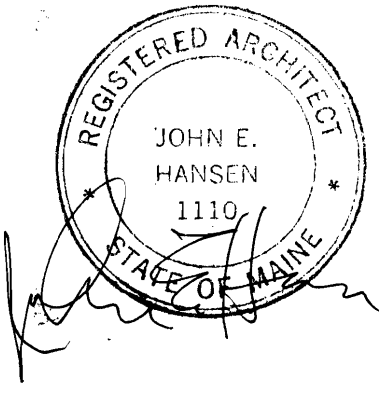
From: John E. Hansen

These plans and / or specifications covering construction work on:

23 Hampshire St., Portland, ME

A 3-unit arartment building

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the ***2003 International Building Code*** and local amendments.



Signature:

Title: Architect

Firm: John Hansen, Architect

Address: 632 Spruce Head Rd.

South Thomaston,ME 04858

Phone: 207-594-5310

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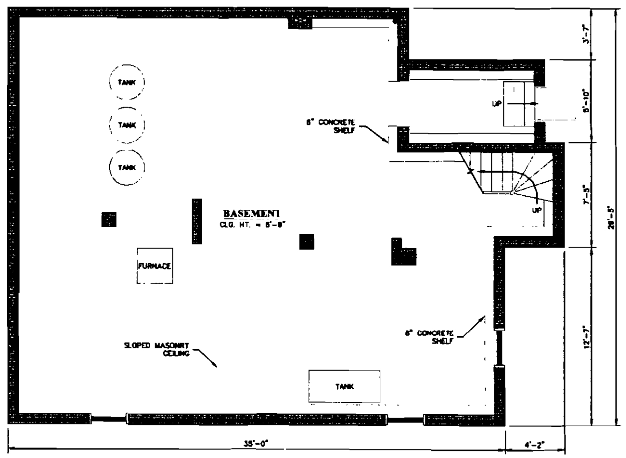
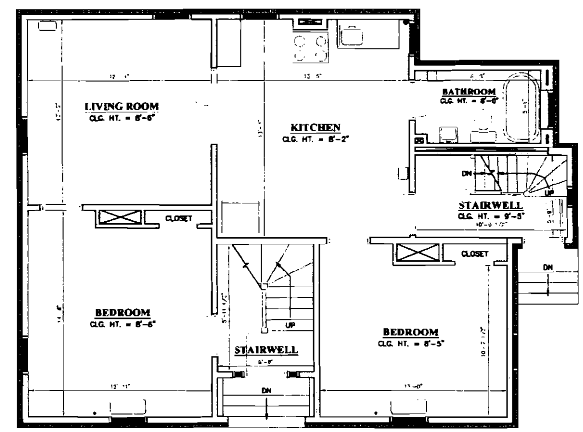


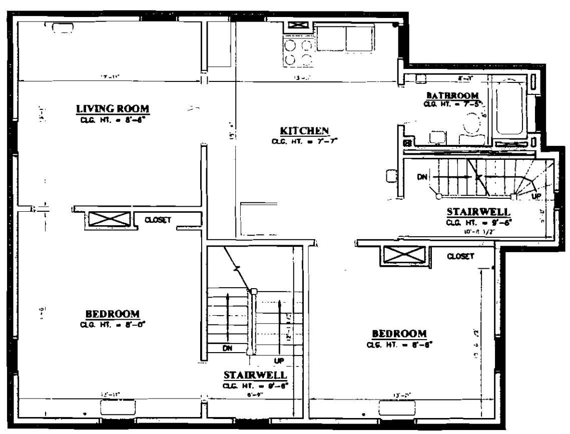
AS-BUILT BASEMENT LEVEL FLOOR PLAN
SCALE 1/4" = 1'-0"



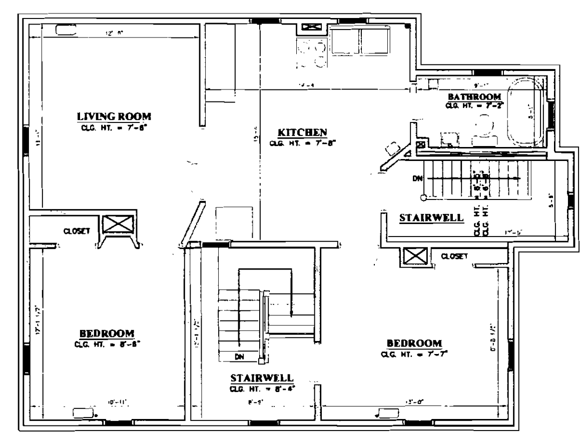
AS-BUILT FIRST LEVEL FLOOR PLAN
SCALE 1/4" = 1'-0"

GROSS BUILDING AREA

BASEMENT LEVEL FLOOR AREA	=	1,053 S.F.
FIRST LEVEL FLOOR AREA	=	1,053 S.F.
SECOND LEVEL FLOOR AREA	=	1,053 S.F.
THIRD LEVEL FLOOR AREA	=	1,053 S.F.
TOTAL GROSS AREA	=	4,212 S.F.



AS-BUILT SECOND LEVEL FLOOR PLAN
SCALE 1/4" = 1'-0"



AS-BUILT THIRD LEVEL FLOOR PLAN
SCALE 1/4" = 1'-0"

NO.	REVISIONS	DATE

AS-BUILT FLOOR PLANS

SCALE: AS SHOWN
DATE: APRIL 09, 2007

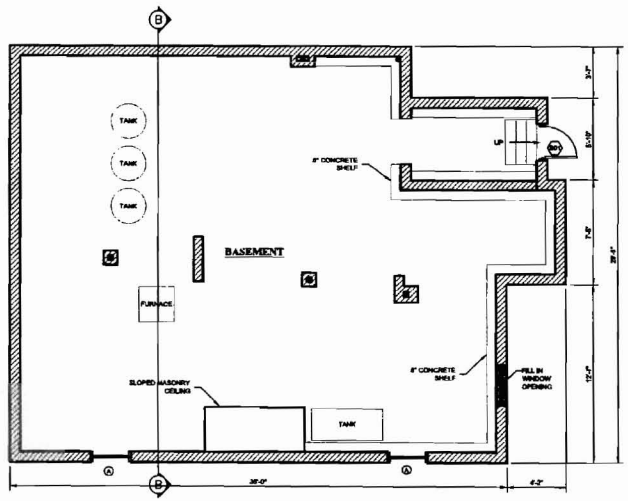
DIVERSICAD
A Diversified CAD Design and Drafting Company
P.O. Box 4631, Augusta, ME 04330
Office: (207) 621-1914 Fax: (207) 621-1910
Email: diversicad2@gwi.net

23 HAMPSHIRE PROPERTY
23 HAMPSHIRE STREET
PORTLAND CUMBERLAND MAINE

Buck Consulting Group, LLC

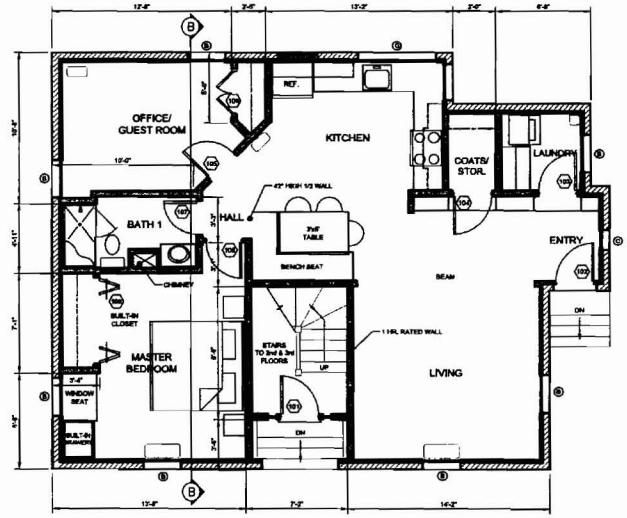
PROJ. NO. 07023

AB-1



PROPOSED BASEMENT LEVEL FLOOR PLAN

SCALE 1/4" = 1'-0"

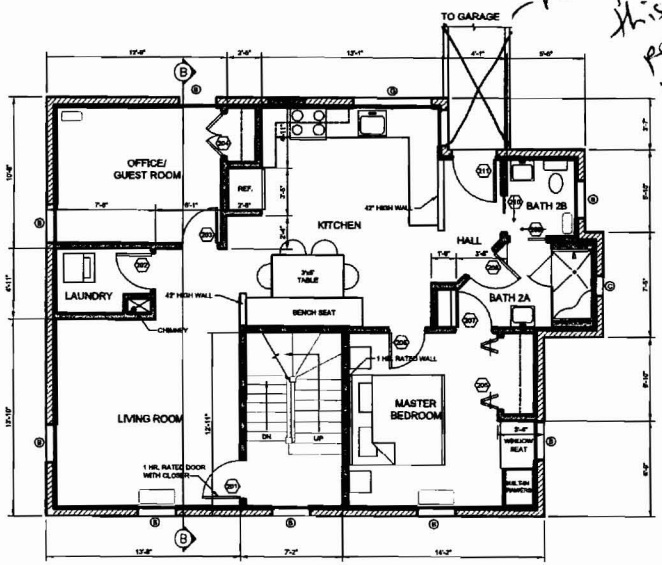


PROPOSED FIRST LEVEL FLOOR PLAN

SCALE 1/4" = 1'-0"

= = INDICATES 1 HR. RATED WALL

not part of this application per conversation w/ Curtis Dow 12/4/07

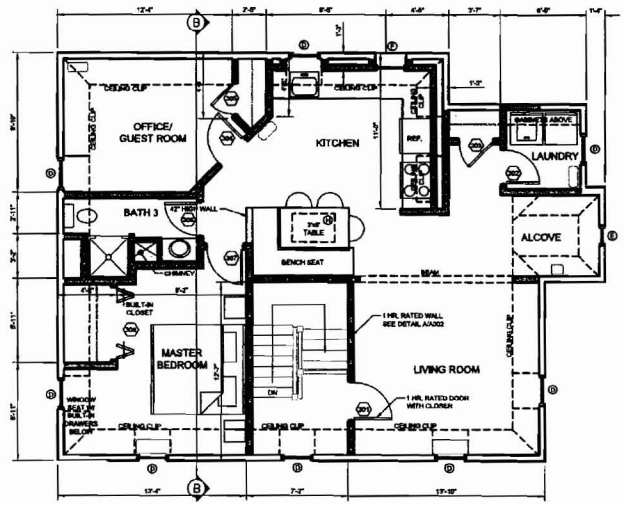


PROPOSED SECOND LEVEL FLOOR PLAN

SCALE 1/4" = 1'-0"

= = INDICATES 1 HR. RATED WALL

NOTE:
BUILDING TO BE FULLY SPRINKLED



PROPOSED THIRD LEVEL FLOOR PLAN

SCALE 1/4" = 1'-0"

= = INDICATES 1 HR. RATED WALL

23 HAMPSHIRE PROPERTY REDEVELOPMENT

PORTLAND, MAINE

SCALE in FEET
1" = 4'

ARCHITECT
JOHN E. HANSEN, ARCHITECT
632 SPRUCE HEAD ROAD
SOUTH THOMASTON, MAINE 04858
PHONE: (207) 594 - 5310 FAX: (207) 594 - 5370

Buck Consulting Group, LLC
Architecture, Engineering & Planning
16 Tannery Lane, Suite 23
P.O. Box 1367
Camden, Maine 04843
Office: (207) 236-9970
Facsimile: (207) 236-9971

FLOOR PLANS

No.	Revision/Issue	Date

Design by: JEH	Checked by: ABC
Drawn by: CMC	Approved by: ABC
Project: PROJECT NUMBER	Date: AUGUST 01, 2007

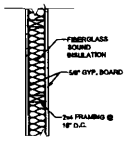
Sheet Number: A001

DOOR SCHEDULE

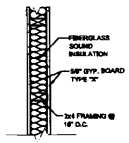
NO.	SIZE	TYPE	HARDWARE	FRAME	REMARKS
B01	2'-4"x3'-6" VERIFY SIZE	INS. STEEL		WOOD	
101	3'-0"x6'-8"	6 PANEL INS. STEEL - 1 HR. RATED		STEEL WRAPAROUND	
102	2'-8" x 6'-8"	INS. STEEL HALF GLASS		WOOD	
103	2'-6" x 6'-8"	6 PANEL PINE			
104	2'-6" x 6'-8"	6 PANEL PINE			
105	2'-6" x 6'-8"	6 PANEL PINE			
106	3'-0" x 6'-8" - PAIR	PINE PANEL TYPE			
107	2'-6" x 6'-8"	6 PANEL PINE			
108	2'-6" x 6'-8"	6 PANEL PINE			
109	6'-0" x 6'-8"	PINE PANEL TYPE - BIFOLD			
201	3'-0" x 6'-8"	6 PANEL STEEL - 1 HR. RATED		STEEL WRAPAROUND	
202	2'-6" x 6'-8"	6 PANEL PINE		WOOD	
203	2'-6" x 6'-8"	6 PANEL PINE			
204	3'-0" x 6'-8" - PAIR	PINE PANEL TYPE			
205	2'-6" x 6'-8"	6 PANEL PINE			
206	5'-0" x 6'-8"	PINE PANEL TYPE - BI-FOLD			
207	2'-6" x 6'-8"	6 PANEL PINE			
208	2'-6" x 6'-8"	6 PANEL PINE			
209	2'-6" x 6'-8"	6 PANEL PINE - POCKET			
210	2'-6" x 6'-8"	6 PANEL PINE - POCKET			
211	3'-0" x 6'-8"	INS. STEEL HALF GLASS			
301	3'-0" x 6'-8"	6 PANEL STEEL - 1 HR. RATED		STEEL WRAPAROUND	
302	2'-6" x 6'-8"	6 PANEL PINE		WOOD	
303	2'-6" x 6'-8"	6 PANEL PINE			
304	2'-6" x 6'-8"	6 PANEL PINE			
305	2'-6" x 6'-8"	6 PANEL PINE			
306	2'-6" x 6'-8"	6 PANEL PINE			
307	2'-6" x 6'-8"	6 PANEL PINE			
308	5'-0" x 6'-8"	PINE PANEL TYPE - BIFOLD			

WINDOW SCHEDULE

LTR.	SIZE	TYPE	GLAZING	MANUFACTURER / STOCK NO.
A	2'-6"± x 1'-6"± VERIFY OPENING SIZE	BASEMENT	INS. GLASS WITH GRILLES AS SHOWN ON ELEVATIONS	
B	2'-8"± x 6'-0"± VERIFY OPENING SIZE	DOUBLE HUNG		
C	1'-5"± x 6'-0"± VERIFY OPENING SIZE	DOUBLE HUNG		
D	2'-2"± x 4'-0"± VERIFY OPENING SIZE	DOUBLE HUNG		
E	1'-5"± x 3'-0"± VERIFY OPENING SIZE	DOUBLE HUNG		
F	2'-2"± x 3'-0"± VERIFY OPENING SIZE	DOUBLE HUNG		
G	PAIR 2'-8"x3'-4"	DOUBLE HUNG		
H	2'-0"± x 3'-0"± VERIFY SIZE	SKYLIGHT		



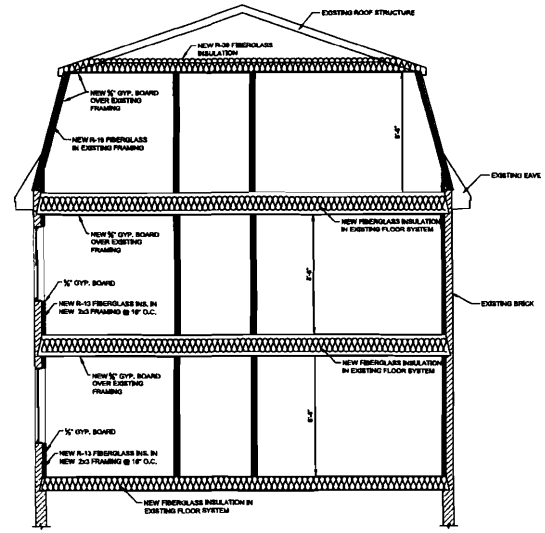
B / A002 NON RATED WALL 1" = 1'-0"



1 HR. RATED WOOD WALL

FIRE TEST : DESIGN U305

A / A002 RATED WALL 1" = 1'-0"



BUILDING SECTION B-B

SCALE 1/4" = 1'-0"

Project:

23 HAMPSHIRE PROPERTY REDEVELOPMENT

PORTLAND, MAINE

0 2 4 8

SCALE In FEET 1" = 4'

Consultants Name and Address:

ARCHITECT

JOHN E. HANSEN, ARCHITECT

832 SPRUCE HEAD ROAD

SOUTH THOMASTON, MAINE 04858

PHONE: (207) 594 - 5316 FAX: (207) 594 - 5370

Plan Drawn and Address:

Buck Consulting Group, LLC
Architecture, Engineering & Planning
16 Tannery Lane, Suite 23
P.O. Box 1387
Camden, Maine 04843
Office: (207) 236-9870
Facsimile: (207) 236-9871

Sheet Title:

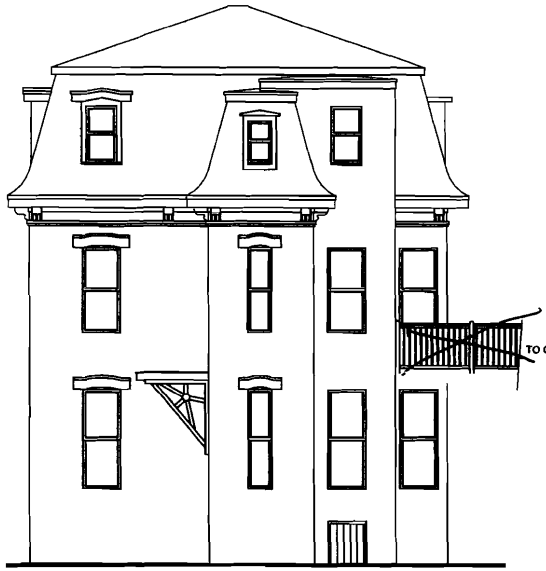
SHEDULES
DOOR & WINDOW

No.	Revision/Issue	Date

Designed by: JEH	Checked by: ABC
Drawn by: CMC	Approved by: ABC
Project: PROJECT NUMBER	Date: JUNE 15, 2007

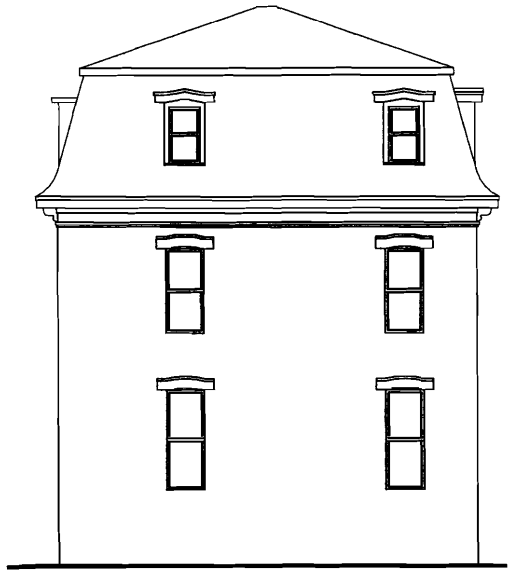
Sheet Number:

A002

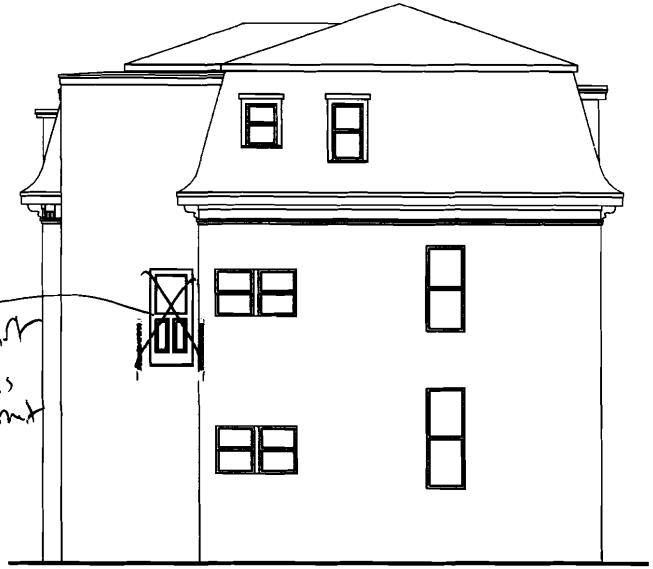


EAST ELEVATION

not part of this permit. per conversation w/ Curtis Dow 8/24/07.



WEST ELEVATION



not part of this permit

NORTH ELEVATION

SOUTH ELEVATION

23 HAMPSHIRE PROPERTY REDEVELOPMENT

PORTLAND, MAINE

SCALE In FEET
1"=4'

ARCHITECT
JOHN E. HANSEN, ARCHITECT
632 SPRUCE HEAD ROAD
SOUTH THOMASTON, MAINE 04858
PHONE: (207) 594 - 5310 FAX: (207) 594 - 5378

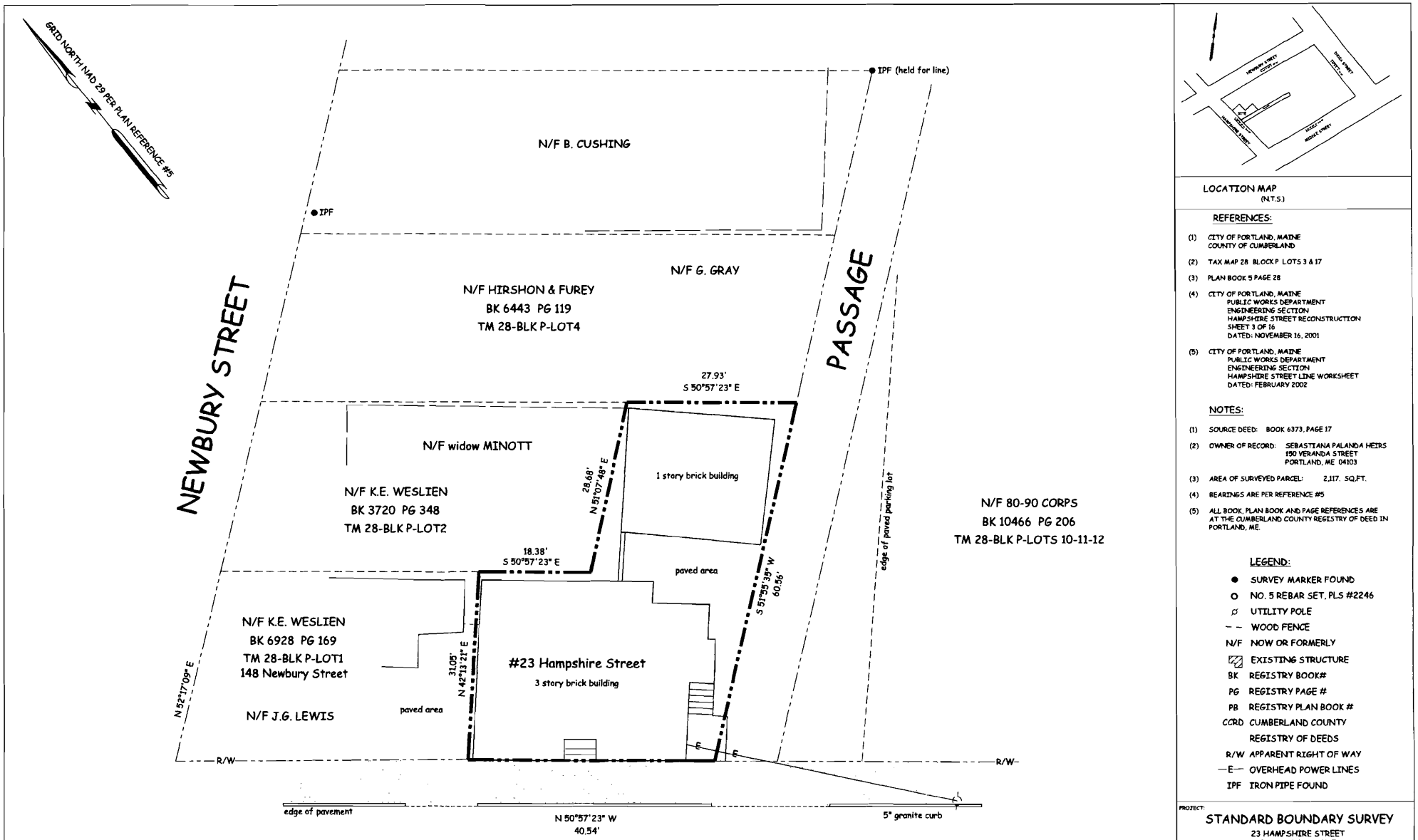
Buck Consulting Group, LLC
Architecture, Engineering & Planning
18 Tannery Lane, Suite 23
P.O. Box 1367
Camden, Maine 04843
Office: (207) 236-9870
Facsimile: (207) 236-9871

ELEVATIONS

No.	Revision/Issue	Date

Designed by: JEH	Checked by: ABC
Drawn by: CMC	Approved by: ABC
Project: PROJECT NUMBER	Date: JUNE 25, 2007

Sheet Number: A003



HAMPSHIRE STREET

40' WIDE

GRAPHIC SCALE

0' 10' 20' 30'

(IN FEET)
1 INCH = 10 FEET

edge of pavement

TKM Land Surveyors, Inc. hereby certifies THAT this Standard Boundary Survey conforms to the Standards of the Maine State Board of Licensure for Professional Land Surveyors.

LOCATION MAP
(N.T.S.)

REFERENCES:

(1) CITY OF PORTLAND, MAINE
COUNTY OF CUMBERLAND

(2) TAX MAP 28 BLOCK P LOTS 3 & 17

(3) PLAN BOOK 5 PAGE 28

(4) CITY OF PORTLAND, MAINE
PUBLIC WORKS DEPARTMENT
ENGINEERING SECTION
HAMPSHIRE STREET RECONSTRUCTION
SHEET 3 OF 16
DATED: NOVEMBER 16, 2001

(5) CITY OF PORTLAND, MAINE
PUBLIC WORKS DEPARTMENT
ENGINEERING SECTION
HAMPSHIRE STREET LINE WORKSHEET
DATED: FEBRUARY 2002

NOTES:

(1) SOURCE DEED: BOOK 6373, PAGE 17

(2) OWNER OF RECORD: SEBASTIANA PALANDA HEIRS
150 VERANDA STREET
PORTLAND, ME 04103

(3) AREA OF SURVEYED PARCEL: 2,117. SQ.FT.

(4) BEARINGS ARE PER REFERENCE #5

(5) ALL BOOK, PLAN BOOK AND PAGE REFERENCES ARE AT THE CUMBERLAND COUNTY REGISTRY OF DEED IN PORTLAND, ME.

LEGEND:

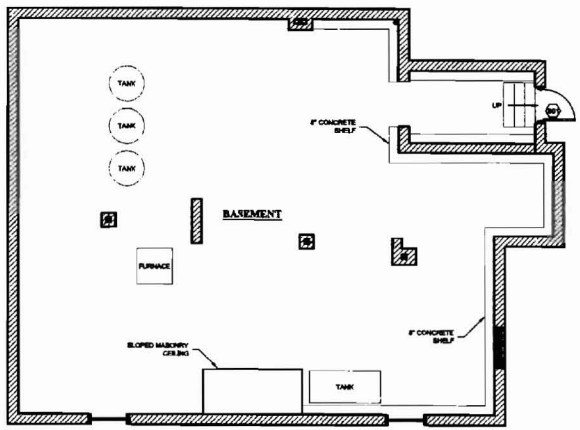
- SURVEY MARKER FOUND
- NO. 5 REBAR SET, PLS #2246
- UTILITY POLE
- WOOD FENCE
- N/F NOW OR FORMERLY
- EXISTING STRUCTURE
- BK REGISTRY BOOK#
- PG REGISTRY PAGE #
- PB REGISTRY PLAN BOOK #
- CCRD CUMBERLAND COUNTY REGISTRY OF DEEDS
- R/W APPARENT RIGHT OF WAY
- —E— OVERHEAD POWER LINES
- IPF IRON PIPE FOUND

PROJECT:
STANDARD BOUNDARY SURVEY
23 HAMPSHIRE STREET
PORTLAND, MAINE

PREPARED FOR:
MR. ANDY McPHERSON
HARPER'S DEVELOPMENT
WINTHROP, MAINE

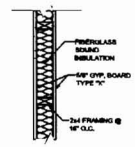
PREPARED BY:
TKM
LAND SURVEYORS, INC.
29 BOXWOOD DRIVE
WESTBROOK, MAINE 04092-3346
TEL. (207) 854-0201

DESIGNED:	T.D.	JOB NUMBER: 07-21	
DRAWN:	C.R.	DATE: APRIL 2007	TIMOTHY DEFILIPP, PLS 2246
CHECKED:	T.D.	SCALE: 1" = 10'	NOT VALID UNLESS EMBOSSED



PROPOSED BASEMENT LEVEL LIFE SAFETY PLAN

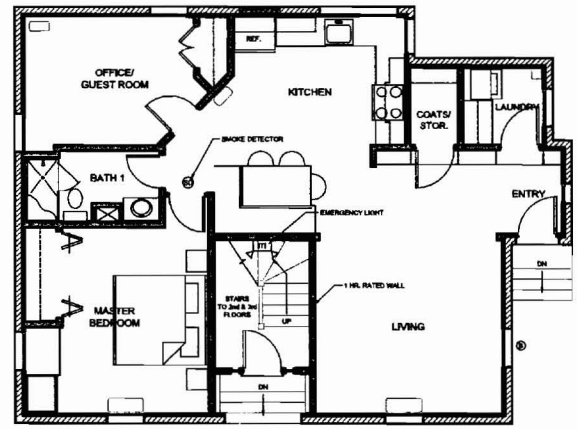
SCALE 1/4" = 1'-0"



1 HR. RATED WOOD WALL

FIRE TEST : DESIGN U305

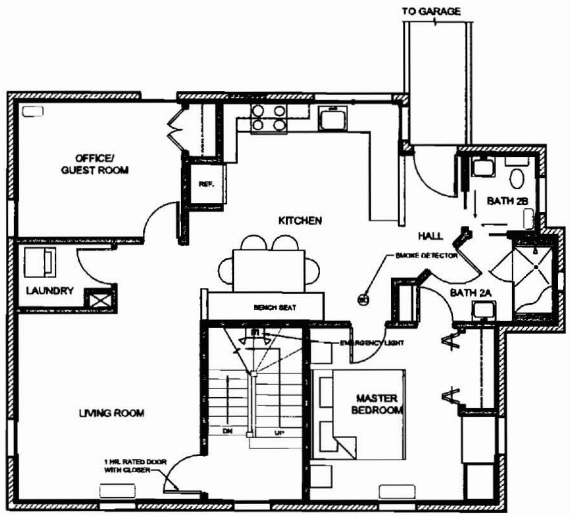
RATED WALL 1" = 1'-0"



PROPOSED FIRST LEVEL LIFE SAFETY PLAN

SCALE 1/4" = 1'-0"

= = INDICATES 1 HR. RATED WALL



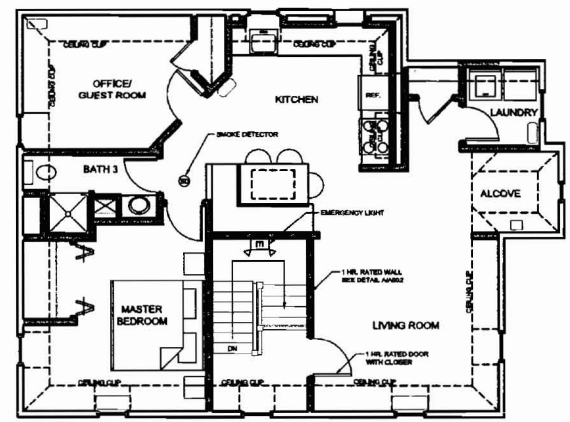
PROPOSED SECOND LEVEL LIFE SAFETY PLAN

SCALE 1/4" = 1'-0"

= = INDICATES 1 HR. RATED WALL

NOTE:
TRAVEL DISTANCE FROM MOST REMOTE AREA ON THE THIRD FLOOR TO THE EXIST DISCHARGE IS 102'

NOTE:
BUILDING TO BE FULLY SPRINKLED



PROPOSED THIRD LEVEL LIFE SAFETY PLAN

SCALE 1/4" = 1'-0"

= = INDICATES 1 HR. RATED WALL

Project:

23 HAMPSHIRE PROPERTY REDEVELOPMENT

PORTLAND, MAINE

0 2 4 8

SCALE In FEET

1" = 4'

Consultant Name and Address:

ARCHITECT

JOHN E. HANSEN, ARCHITECT

632 SPRUCE HEAD ROAD

SOUTH THOMASTON, MAINE 04858

PHONE: (207) 594 - 5310 FAX: (207) 594 - 5370

Firm Name and address:

Buck Consulting Group, LLC
Architecture, Engineering & Planning
18 Tannery Lane, Suite 23
P.O. Box 1367
Camden, Maine 04843
Office: (207) 236-9870
Facsimile: (207) 236-9871

Sheet Title:

LIFE SAFETY PLAN

No.	Revision/Issue	Date

Drawn by: JEH	Checked by: ABC
Reviewed by: CMC	Approved by: ABC
Project: PROJECT NUMBER	Date: AUGUST 01, 2017

Sheet Number:

LS01

Fire Department Requirements - Supplemental Attachment.

1) Name, address and phone number of applicant **and** the project architect

Applicant:	Curtis S. Dow Buck Consulting Group 16 Tannery Lane, Suite 23 PO Box 1367 Camden, ME 04843 (207) 236-9970	Architect:	John Hansen John Hansen Architects 632 Sprucehead Road South Thomaston, ME 04858 (207) 594-5310

2) Proposed use of structure (NFPA and IBC classification)

NFPA: Existing Apartment Building
IBC: Residential R-2 Apartment House.

3) Square footage of proposed structure (total and per story)

4,400 Square Feet (inclusive of basement, 1,100 square feet per floor

4) Existing and proposed fire protection of structure.

System shall be designed in accordance with NFPA Standard 13R

5) Separate plans shall be submitted for

a. Suppression system

To be provided upon completion of fire suppression design by nominated sprinkler contractor.

b. Detection System (separate permit is required)

To be provided upon completion of fire suppression design by nominated sprinkler contractor.

6) A separate Life Safety Plan must include:

a. Fire resistance ratings of all means of egress (see attached Life Safety Plan)
b. Travel distance from most remote point to exit discharge (see attached Life Safety Plan)
c. Location of any required fire extinguishers (see attached Life Safety Plan)
d. Location of emergency lighting (see attached Life Safety Plan)
e. Location of exit signs(see attached Life Safety Plan)
f. NFPA 101 code summary (see attached Life Safety Plan)

7) Elevators shall be sized to fit an 80" x 24" stretcher

Not applicable – No elevator is proposed

ONLINE CERTIFICATIONS DIRECTORY

BXUV.U305
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U305

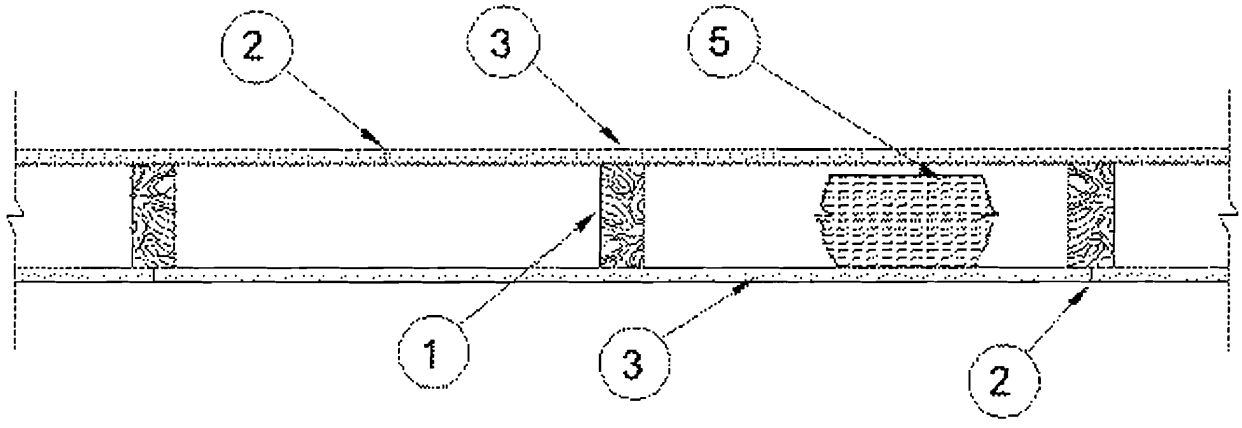
July 30, 2007

Bearing Wall Rating — 1 HR.

Finish Rating — See Items 3, 3A, 3D, 3E and 3F.

STC Rating - 56 (See Item 9)

Load Restricted for Canadian Applications — See Guide BXUV7



1. **Wood Studs —** Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. **Joints and Nail-Heads —** Exposed or covered with fiber tape and joint compound, except where required for specific edge configuration. For tapered, rounded-edge gypsum board, joints covered with joint compound or fiber tape and joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Nailheads exposed or covered with joint compound.

3. **Gypsum Board* —** 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Item 6 or 6A, Steel Framing Members*.

When Item 6, Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 23 min.), Type AGX-11 (finish rating 26 min) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC

LTD CO — Type DBX-1 (finish rating 24 min).

BPB AMERICA INC — Type 1, Type SF3 (finish rating 20 min) or FRPC, ProRoc Type C or ProRoc Type X (finish rating 26 min), Type EGRG (finish rating 23 min)

BPB CANADA INC — ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant (finish rating 26 min)

CANADIAN GYPSUM COMPANY — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min) .

G-P GYPSUM CORP, SUB OF

GEORGIA-PACIFIC CORP — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), DA.

LAFARGE NORTH AMERICA INC — Type LGFC2 (finish rating 20 min), Type LGFC3 (finish rating 20 min), Type LGFC6 (finish rating 26 min), Type LGFC-C (finish rating 20 min), Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A.

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min) or Type PG-C.

PANEL REY S A — Type PRX.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

TEMPLE-INLAND FOREST PRODUCTS CORP — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X.

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min).

3A. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), Type AG-C (finish rating 25 min.).

CANADIAN GYPSUM COMPANY — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min) , Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min).

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min).

3B. **Gypsum Board* —** (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CANADIAN GYPSUM COMPANY — Types AR, IP-AR.

UNITED STATES GYPSUM CO — Types AR, IP-AR.

USG MEXICO S A DE C V — Types AR, IP-AR.

3C. **Gypsum Board* —** (As an alternate to Items 3, 3A and 3B) - 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CANADIAN GYPSUM COMPANY — Type SHX.

UNITED STATES GYPSUM CO — Type SHX.

USG MEXICO S A DE C V — Type SHX.

3D. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 3, 3A, 3B and 3C, not shown) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5E. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.

QUIET SOLUTION INC — Type QuietRock QR-530 (finish rating 23 min).

3E. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, or 3D -not shown) For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min).

3F. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. Joints and nail heads treated as described in Item 2.

TEMPLE-INLAND FOREST PRODUCTS CORP — GreenGlas Type X (finish rating 23 min).

4. **Steel Corner Fasteners — (Optional) —** For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. **Batts and Blankets* —** (Optional - Required when Item 6A is used) Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be placed to completely fill the stud cavities and shall be secured to the studs 24 in. OC with staples, nails or screws.

CERTAINTEED CORP

GUARDIAN FIBERGLASS INC

JOHNS MANVILLE INTERNATIONAL INC

KNAUF INSULATION GMBH

OWENS CORNING HT INC, DIV OF OWENS

CORNING — Corning Fiberglas Corp.

ROCK WOOL MANUFACTURING CO — Delta Board.

ROXUL INC

THERMAFIBER INC — Type SAFB.

5A. **Fiber, Sprayed* —** (Not shown - Not for use with Item 6A) As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft^3. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft^3.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

5B. **Fiber, Sprayed* —** (Not shown - Not for use with Item 6A) As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets* —** Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB

5D. **Glass Fiber Insulation —** (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

6. **Steel Framing Members (Optional, Not Shown)* —** Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

6A. **Steel Framing Members (Optional, Not Shown)* —** Furring channels and Steel Framing Members on one side of studs as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC

perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax.

7. **Furring Channel** — Optional - Not Shown - For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. **Caulking and Sealants** — (not shown, optional) A bead of acoustical sealant applied around the partition perimeter for sound control.

9. **STC Rating** — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2, above - Nailheads Shall be covered with joint compound.

B. Item 2, above - Joints As described, shall be covered with fiber tape and joint compound.

C. Item 5, above - Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

D. Item 6, above - Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.

E. Item 8, above - Caulking and Sealants (not shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

10. **Wall and Partition Facings and Accessories*** — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

QUIET SOLUTION INC — Type QuietRock QR-510.

11. **Cementitious Backer Units*** — (Optional Item Not Shown - For Use On Face Of 1 Hr Systems With All Standard Items Required) - 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide.- Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.

NATIONAL GYPSUM CO — Type PermaBase

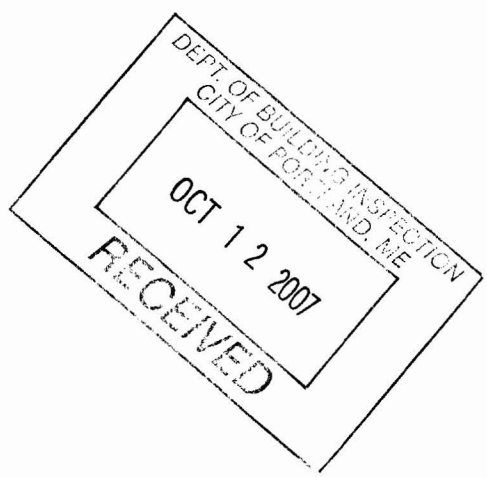
*Bearing the UL Classification Mark

Last Updated on 2007-07-30

Questions? Notice of Disclaimer Page Top

23 HAMPSHIRE STREET

SUPPLEMENTAL SUBMISSION TO JEANIE BOURKE, INSPECTION SERVICES DIVISION DIRECTOR



Buck Consulting Group, LLC
89 Elm Street, Suite 201
PO Box 1367
Camden, ME 04843
(207) 236-9970

RES*check* Software Version 4.0.1
Compliance Certificate

Report Date: 10/11/07

Data filename: Untitled.rck

Energy Code:	**2003 IECC**
Location:	**Portland, Maine**
Construction Type:	**Multifamily**
Glazing Area Percentage:	**10%**
Heating Degree Days:	**7378**

Construction Site: Owner/Agent: Designer/Contractor:

Compliance: **Passes** Maximum UA: **777** Your Home UA: **686 --> 11.7% Better Than Code (UA)**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss:	941	38.0	0.0		28
Wall 1: Solid Concrete or Masonry:Interior Insulation:	3813	13.0	0.0		282
Window 1: Metal Frame with Thermal Break:Double Pane:	368			0.330	121
Door 1: Solid:	42			0.500	21
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space:	941	0.0	0.0		234
Boiler 1: Other (Except Gas-Fired Steam): 82.4 AFUE					

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2003 IECC requirements in RES*check* Version 4.0.1 and to comply with the mandatory requirements listed in the RES*check* Inspection Checklist.

Name - Title Signature Date

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KURT MAGNUSSON, P.E. — Name - Title

Signature

10/11/07 — Date

RES*check* Software Version 4.0.1
Inspection Checklist

Date: 10/11/07

Ceilings:

☐ Ceiling 1: Flat Ceiling or Scissor Truss, R-38.0 cavity insulation
Comments: _____

Above-Grade Walls:

☐ Wall 1: Solid Concrete or Masonry:Interior Insulation, R-13.0 cavity insulation
Comments: _____

Windows:

☐ Window 1: Metal Frame with Thermal Break:Double Pane, U-factor: 0.330
For windows without labeled U-factors, describe features:
#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No
Comments: _____

Doors:

☐ Door 1: Solid, U-factor: 0.500
Comments: _____

Floors:

☐ Floor 1: All-Wood Joist/Truss:Over Unconditioned Space, R-0 (uninsulated)
Comments: _____

Heating and Cooling Equipment:

☐ Boiler 1: Other (Except Gas-Fired Steam): 82.4 AFUE or higher
Make and Model Number: _____

Air Leakage:

☐ Joints, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed.

☐ Recessed lights are 1) Type IC rated, or 2) installed inside an appropriate air-tight assembly with a 0.5" clearance from combustible materials. If non-IC rated, fixtures are installed with a 3" clearance from insulation.

Skylights:

☐ Minimum insulation requirement for skylight shafts equal to or greater than 12 inches is R-19.

Vapor Retarder:

☐ Installed on the warm-in-winter side of all non-vented framed ceilings, walls, and floors.

Materials Identification:

☐ Materials and equipment are installed in accordance with the manufacturer's installation instructions.

☐ Materials and equipment are identified so that compliance can be determined.

☐ Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.

☐ Insulation R-values, glazing U-factors, and heating equipment efficiency are clearly marked on the building plans or specifications.

☐ Insulation is installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.

Duct Insulation:

☐ Supply ducts in unconditioned attics or outside the building are insulated to R-8.

- ☐ Return ducts in unconditioned attics or outside the building are insulated to R-4.
- ☐ Supply ducts in unconditioned spaces are insulated to R-8.
- ☐ Return ducts in unconditioned spaces (except basements) are insulated to R-2. Insulation is not required on return ducts in basements.
- ☐ Where exterior walls are used as plenums, the wall is insulated to R-8.

Duct Construction:

- ☐ Duct connections to flanges of air distribution system equipment are sealed and mechanically fastened.
- ☐ All joints, seams, and connections are securely fastened with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric, or tapes. Tapes and mastics are rated UL 181A or UL 181B.
  Exceptions:

  Continuously welded and locking-type longitudinal joints and seams on ducts operating at less than 2 in. w.g. (500 Pa).
- ☐ The HVAC system provides a means for balancing air and water systems.

Temperature Controls:

- ☐ Thermostats exist for each dwelling unit (non-dwelling areas must have one thermostat for each system or zone). A manual or automatic means to partially restrict or shut off the heating and/or cooling input to each room is provided.

Electric Systems:

- ☐ Separate electric meters exist for each dwelling unit.

Service Water Heating:

- ☐ Water heaters with vertical pipe risers have a heat trap on both the inlet and outlet unless the water heater has an integral heat trap or is part of a circulating system.
- ☐ Circulating hot water pipes are insulated to the levels in Table 1.

Circulating Hot Water Systems:

- ☐ Circulating hot water pipes are insulated to the levels in Table 1.

Swimming Pools:

- ☐ All heated swimming pools have an on/off heater switch and a cover unless over 20% of the heating energy is from non-depletable sources. Pool pumps have a time clock.

Heating and Cooling Piping Insulation:

- ☐ HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to the levels in Table 2.

Table 1: ***Minimum Insulation Thickness for Circulating Hot Water Pipes***

Heated Water Temperature (°F)	Insulation Thickness in Inches by Pipe Sizes			
	Non-Circulating Runouts		Circulating Mains and Runouts	
	Up to 1"	Up to 1.25"	1.5" to 2.0"	Over 2"
170-180	0.5	1.0	1.5	2.0
140-169	0.5	0.5	1.0	1.5
100-139	0.5	0.5	0.5	1.0

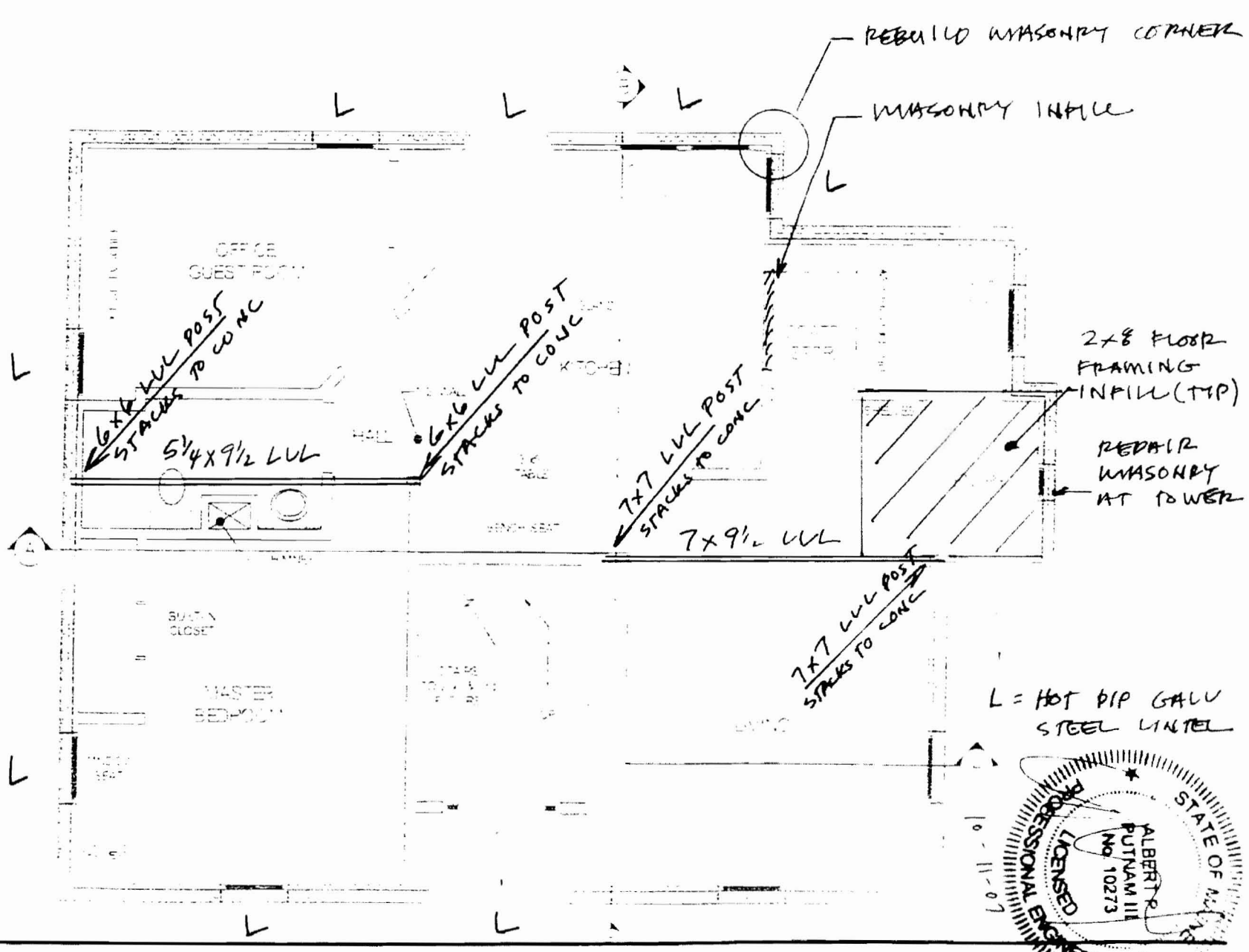
Table 2: ***Minimum Insulation Thickness for HVAC Pipes***

Piping System Types	Fluid Temp. Range(°F)	Insulation Thickness in Inches by Pipe Sizes			
		2" Runouts	1" and Less	1.25" to 2.0"	2.5" to 4"
Heating Systems					
Low Pressure/Temperature	201-250	1.0	1.5	1.5	2.0
Low Temperature	106-200	0.5	1.0	1.0	1.5
Steam Condensate (for feed water)	Any	1.0	1.0	1.5	2.0
Cooling Systems					
Chilled Water, Refrigerant and	40-55	0.5	0.5	0.75	1.0
Brine	Below 40	1.0	1.0	1.5	1.5

NOTES TO FIELD: (Building Department Use Only)

SECOND FLOOR FRAMING PLAN

3/16" = 1'-0"



ALBERT PUTNAM, PE

ISSUED FOR PERMIT

NOT FOR CONSTRUCTION

SK-01

SHEET 3 OF 3

10-11-07

23 HAMPSHIRE STREET

PORTLAND, MAINE