

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read  
Application And  
Notes, If Any,  
Attached

BUILDING INSPECTION

PERMIT

Permit Number: 080871

ISSUED

SEP 2 2008

This is to certify that BRODIE IAN B & MATTHEW A FRAHM ITS/property ownerhas permission to Single Family Home - Second floor addition w/ 2 bath and 1 bedroomAT 47 DAKOTA ST

407 H008001

provided that the person or persons performing or supervising the work accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, 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.

Notification of inspection must be given and when permit is on process before this building or part thereof is loaded or service is used-in 24 HOUR NOTICE REQUIRED.

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

## OTHER REQUIRED APPROVALS

Fire Dept. \_\_\_\_\_

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name

9/2/08 *Alt. M.*  
Director - Building & Inspection Services

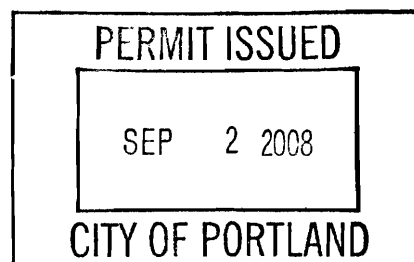
PENALTY FOR REMOVING THIS CARD

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

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

<b>Permit No:</b> 08-0877		<b>Issue Date:</b> 9/2/08		<b>CBL:</b> 407 H008001	
<b>Location of Construction:</b> 47 DAKOTA ST		<b>Owner Name:</b> BRODIE IAN B & MATTHEW A		<b>Owner Address:</b> 47 DAKOTA ST	
<b>Business Name:</b>		<b>Contractor Name:</b> property owner		<b>Phone:</b>	
<b>Lessee/Buyer's Name</b>		<b>Phone:</b>		<b>Permit Type:</b> Additions - Dwellings	
<b>Past Use:</b> Single Family Home		<b>Proposed Use:</b> Single Family Home - Second floor addition w/ 2nd bath and 4th bedroom		<b>Zone:</b> R-3	
<b>Proposed Project Description:</b> Single Family Home - Second floor addition w/ 2nd bath and 4th bedroom		<b>Permit Fee:</b> \$220.00		<b>Cost of Work:</b> \$20,000.00	
		<b>FIRE DEPT:</b> <input type="checkbox"/> Approved <input type="checkbox"/> Denied		<b>INSPECTION:</b> Use Group: R-3 Type: 5B DEC-2007 Signature: [Signature] 9/2/08	
		<b>Signature:</b>		<b>Signature:</b>	
		<b>PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)</b> Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied			
		<b>Signature:</b>		<b>Date:</b>	
<b>Permit Taken By:</b> Idobson		<b>Date Applied For:</b> 07/17/2008		<b>Zoning Approval</b>	

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..



<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj. <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 8/11/08	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied Date: 8/11/08	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: [Signature]
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**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

9-26-08 OK - framing, electrical. Note: need air test for plumbing! MFM  
10-2-08 OK - Plumb - air test MFM  
8-25-09 OK - Final inspection addition. MFM

**INSPECTION OF PREMISES**

I HEREBY CERTIFY TO Douglas Title Co.  
The Mortgage Office and its Title Insurer

47 Dakota Street  
Portland, Maine

Job Number: 381-05  
Inspection Date: 11-18-04  
Scale: 1"= 30'

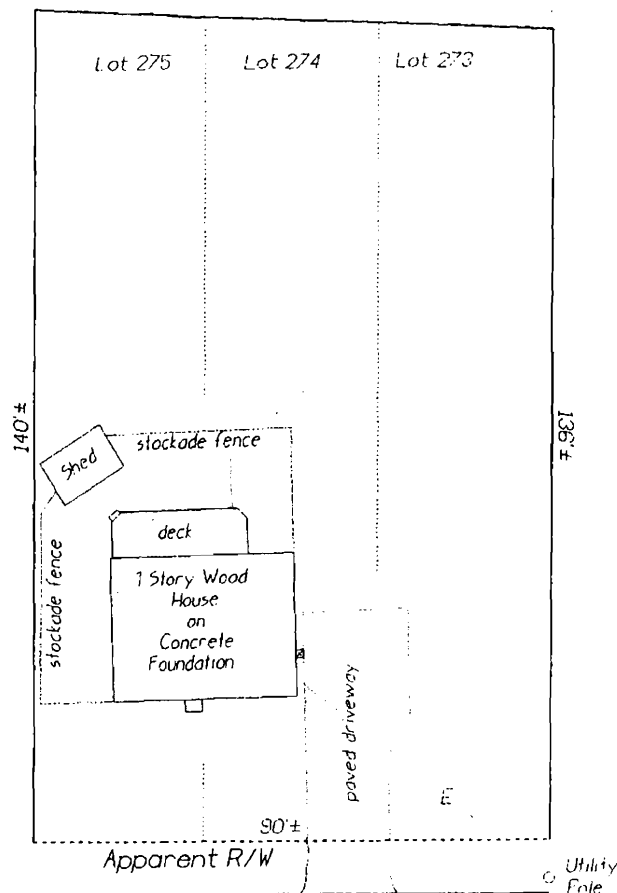
The monumentation is ~~not~~ in harmony with  
current deed description. Monumentation is Vague

The building setbacks are ~~not~~ in conformity  
with town zoning requirements.

The dwelling does not ~~appear to~~ fall within the  
special flood hazard zone as delineated by the  
Federal Emergency Management Agency.

The land does not ~~appear to~~ fall within the  
special flood hazard zone as indicated on  
community-panel # 230051 0007 B

BUYER: Christopher Gilliland  
SELLER: Judith Bauer



Dakota Street  
(bituminous)

Roy Street

THIS PROPERTY IS SUBJECT TO ALL  
RIGHTS AND EASEMENTS OF RECORD.  
THOSE THAT ARE EVIDENT ARE SHOWN.  
THIS PLAN MIGHT NOT REVEAL  
CONFLICTS WITH ABUTTING DEEDS.

**Bruce R. Bowman**  
INCORPORATED  
199 John Small Road  
Chebeague Island, Maine 04017  
Phone: (207) 846-1663  
Fax: (207) 846-1664



PLAN BOOK 16 PAGE 29 LOT 273-275  
DEED BOOK 15484 PAGE 165 COUNTY Cumberland

THIS PLAN IS NOT FOR RECORDING Drawn by: ABM



**MiTek Industries, Inc.**

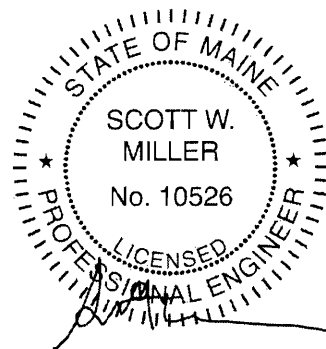
14515 North Outer Forty Drive  
Suite 300  
Chesterfield, MO 63017-5746

Re: 88331

The truss drawing(s) referenced below have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Sprowl Building Components, Inc..

Pages or sheets covered by this seal: I14336252 thru I14336252

My license renewal date for the state of Maine is December 31, 2009.



August 7, 2008

Miller, Scott

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Chapter 2.

Job	Truss	Truss Type	Qty	Ply	11770087
STOCKS	24-6-56	COMMON	12	1	
					Job Reference (optional)

Sprowl Building Components, Searsmont, ME 04973

6.500 s Feb 5 2007 MiTek Industries, Inc. Mon Mar 05 15:23:27 2007 Page 1

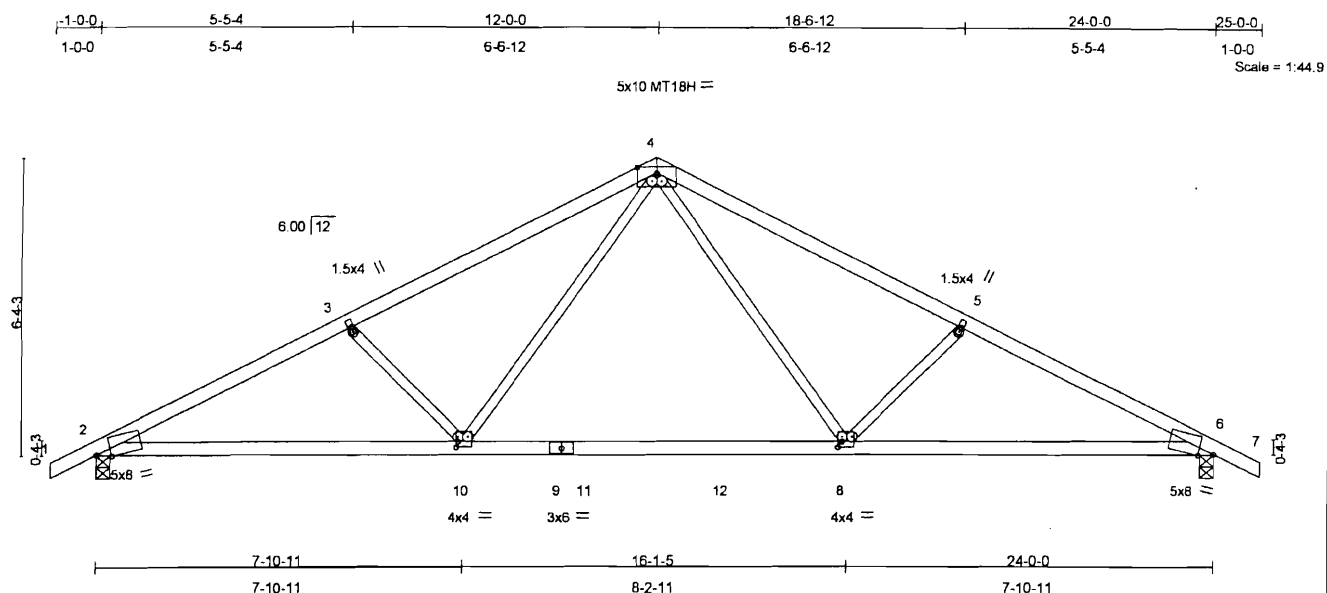


Plate Offsets (X,Y): [2-0-3-13,Edge], [6-0-3-13,Edge], [8-0-1-0-0-1-8], [10-0-0-8-0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 56.0	Plates Increase	1.15	TC 0.71	Vert(LL)	-0.29	8-10	>965	MT20	197/144
(Roof Snow=56.0)	Lumber Increase	1.15	BC 0.79	Vert(TL)	-0.39	8-10	>728	MT18H	197/144
TCDL 7.0	Rep Stress Incr	YES	WB 0.37	Horz(TL)	0.09	6	n/a		
BCLL 0.0	Code	BOCA/ANSI95	(Matrix)						
BCDL 10.0								Weight: 78 lb	

**LUMBER**  
TOP CHORD 2 X 4 SPF 2100F 1.8E  
BOT CHORD 2 X 4 SPF 1650F 1.5E  
WEBS 2 X 3 SPF No.2

**BRACING**  
TOP CHORD Sheathed or 3-10-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-5-7 oc bracing.

**REACTIONS** (lb/size) 2=1933/0-3-8, 6=1933/0-3-8  
Max Horz 2=-139(LC 7)  
Max Uplift 2=-541(LC 6), 6=-541(LC 7)

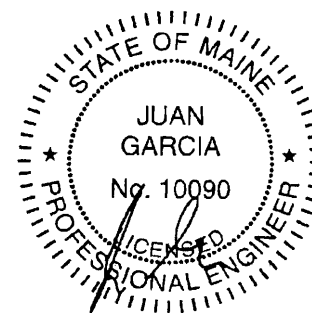
This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/66, 2-3=-3291/799, 3-4=-2800/714, 4-5=-2800/715, 5-6=-3291/800, 6-7=0/66  
BOT CHORD 2-10=-722/2804, 9-10=-319/1848, 9-11=-319/1848, 11-12=-319/1848, 8-12=-319/1848, 6-8=-584/2804  
WEBS 3-10=-905/387, 4-10=-243/1090, 4-8=-243/1090, 5-8=-905/388

#### NOTES

- 1) Wind: ASCE 7-02; 110mph; h=25ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 Plate metal DOL=1.33.
- 2) Roof design snow load has been reduced to account for slope.
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 541 lb uplift at joint 2 and 541 lb uplift at joint 6.

LOAD CASE(S) Standard



March 5, 2007

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE M1-7473 BEFORE USE.**  
Design valid for use only with Mittek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, OSB-89 and SCS11 Building Component Safety Information - available from Truss Plate Institute, 583 D Onofrio Drive, Madison, WI 53719.

**MiTek**  
POWER TO PERFORM  
14515 N. Outer Forty, Suite #300  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
STOCKS	24G-6	STOCK	10	1	24G-6
Sprowl Building Components, Searsmont, ME 04973, Tim Emerson					6,200 s Feb 11 2005 MiTek Industries, Inc. Tue Apr 05 15:16:17 2005 Page 1
Job Reference (optional)					

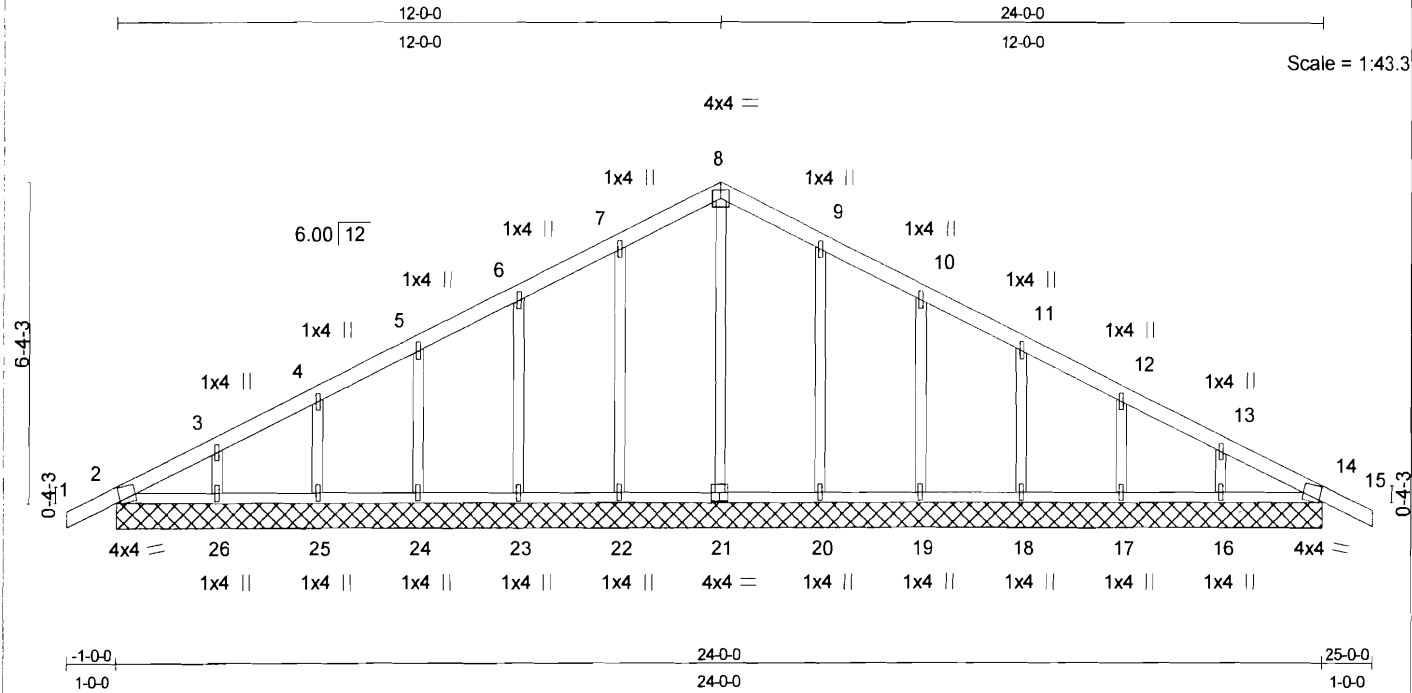


Plate Offsets (X,Y): [2:0-0-13,Edge], [14:0-0-13,Edge]									
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 42.0	Plates Increase 1.15	TC 0.15	Vert(LL) 0.00	15	n/r	80		MT20	197/144
(Roof Snow=42.0)	Lumber Increase 1.15	BC 0.08	Vert(TL) 0.00	15	n/r	120			
TCDL 7.0	Rep Stress Incr YES	WB 0.16	Horz(TL) 0.00	14	n/a	n/a			
BCLL 0.0 *	Code BOCA/ANSI95	(Matrix)							
BCDL 10.0									
Weight: 81 lb									

<b>LUMBER</b>			<b>NOTES</b>		
TOP CHORD	2 X 4 SPF No.2	Max Grav	1) Wind: ASCE 7-98; 85mph; h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.		
BOT CHORD	2 X 3 SPF No.2	21 =	2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"		
OTHERS	2 X 3 SPF No.2	22 =	3) Roof design snow load has been reduced to account for slope.		
<b>BRACING</b>			4) Unbalanced snow loads have been considered for this design.		
TOP CHORD		23 =	5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.		
Sheathed or 6-0-0 oc purlins.		24 =	6) Gable requires continuous bottom chord bearing.		
BOT CHORD		25 =	7) Gable studs spaced at 2-0-0 oc.		
Rigid ceiling directly applied or 9-10-0 oc bracing.		26 =	8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.		
<b>REACTIONS</b> (lb/size)			9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 14, 48 lb uplift at joint 22, 54 lb uplift at joint 23, 51 lb uplift at joint 24, 56 lb uplift at joint 25, 43 lb uplift at joint 26, 45 lb uplift at joint 20, 56 lb uplift at joint 19, 51 lb uplift at joint 18, 56 lb uplift at joint 17, 41 lb uplift at joint 16 and 33 lb uplift at joint 2.		
14 =	234/24-0-0	17 =	10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down at 0-0-0, and 98 lb down at 24-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.		
21 =	291/24-0-0	16 =	11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).		
22 =	321/24-0-0	2 =			
23 =	276/24-0-0	<b>FORCES</b> (lb)			
24 =	230/24-0-0	Maximum Compression/Maximum Tension			
25 =	239/24-0-0	TOP CHORD			
26 =	227/24-0-0	1-2 =	-0/46	2-3 =	-113/50
20 =	321/24-0-0	3-4 =	-73/73	4-5 =	-70/97
19 =	276/24-0-0	5-6 =	-70/120	6-7 =	-70/144
18 =	230/24-0-0	7-8 =	-74/163	8-9 =	-74/156
17 =	239/24-0-0	9-10 =	-70/118	10-11 =	-70/75
16 =	227/24-0-0	11-12 =	-70/40	12-13 =	-71/37
2 =	234/24-0-0	13-14 =	-77/36	14-15 =	0/46
Max Horz		BOT CHORD			
2 =	113(load case 6)	2-26 =	0/91	25-26 =	0/91
Max Uplift		24-25 =	0/91	23-24 =	0/91
14 =	-45(load case 7)	22-23 =	0/91	21-22 =	0/91
22 =	-48(load case 6)	20-21 =	0/91	19-20 =	0/91
23 =	-54(load case 6)	18-19 =	0/91	17-18 =	0/91
24 =	-51(load case 6)	16-17 =	0/91	14-16 =	0/91
25 =	-56(load case 6)	<b>WEBS</b>			
26 =	-43(load case 6)	8-21 =	-174/0	7-22 =	-249/72
20 =	-45(load case 7)	6-23 =	-237/78	5-24 =	-238/75
19 =	-56(load case 7)	4-25 =	-240/79	3-26 =	-230/71
18 =	-51(load case 7)	9-20 =	-249/69	10-19 =	-237/79
17 =	-56(load case 7)	11-18 =	-238/75	12-17 =	-240/79
16 =	-41(load case 7)	13-16 =	-230/69		
2 =	-33(load case 4)				
Max Grav					
14 =	275(load case 3)				
Continued on page 2			<b>LOAD CASE(S)</b>		
			Standard Except:		

Job	Truss	Truss Type	Qty	Ply	
STOCKS	24G-6	STOCK	10	1	24G-6 Job Reference (optional)

Sprowl Building Components, Searsmont, ME 04973, Tim Emerson

6.200 s Feb 11 2005 MiTek Industnes, Inc. Tue Apr 05 15:16:18 2005 Page 2

**LOAD CASE(S)**

Standard Except:  
8) User defined: Lumber Increase=1.15, Plate  
Increase=1.15  
Uniform Loads (plf)  
Vert: 2-14=-20(F), 2-8=-98(F), 8-14=-98(F)  
Concentrated Loads (lb)  
Vert: 14=-98(F) 2=-98(F)



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	114336252
88331	A	SPECIAL	6	1		
Sprowl Building Components, Searsmont, ME 04973			7.050 s May 22 2008 MITek Industries, Inc. Thu Aug 07 09:08:25 2008 Page 1			

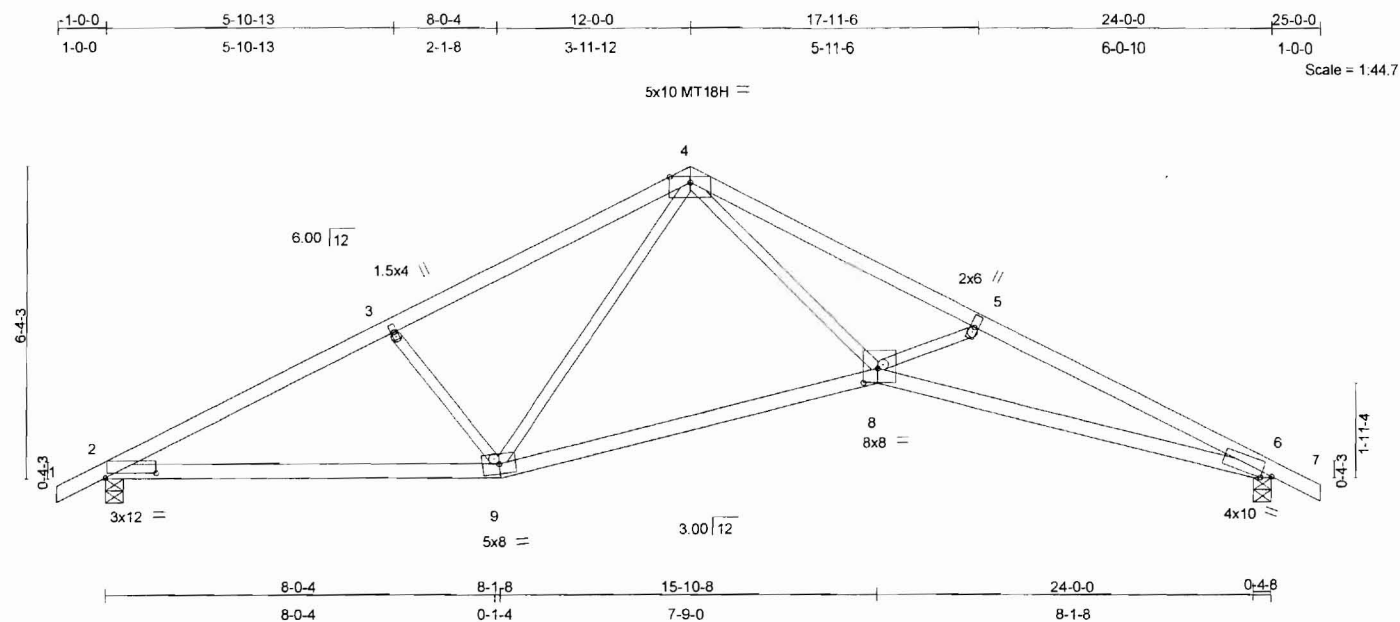


Plate Offsets (X,Y): [2:1-0-8,0-1-2], [6:0-2-11,0-1-3], [8:0-3-8,0-3-8]																					
LOADING (psf)		SPACING		2-0-0		CSI		DEFL		in (loc)		I/defl		L/d		PLATES		GRIP			
TCLL 56.0		Plates Increase		1.15		TC 0.90		Vert(LL)		-0.42		8-9		>669		360		MT20		169/123	
(Roof Snow=56.0)		Lumber Increase		1.15		BC 0.89		Vert(TL)		-0.64		8-9		>442		240		MT18H		197/144	
TCDL 7.0		Rep Stress Incr		YES		WB 0.44		Horz(TL)		0.34		6		n/a		n/a					
BCLL 0.0		Code		BOCA/TPI2002		(Matrix)															
BCDL 10.0																					
Weight: 75 lb																					

**LUMBER**  
TOP CHORD 2 X 4 SPF 1650F 1.5E  
BOT CHORD 2 X 4 SPF No.2 \*Except\*  
8-9: 2 X 4 SPF-S No.2, 6-8: 2 X 4 SPF 2100F 1.8E  
WEBS 2 X 3 SPF No.2 \*Except\*  
4-8: 2 X 3 SPF 2100F 1.8E

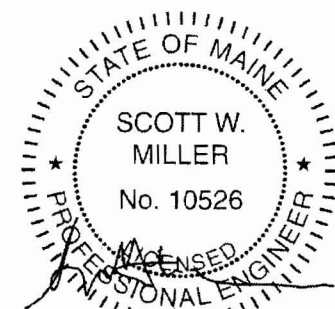
**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 6-6-7 oc bracing.

**REACTIONS** (lb/size) 2=1874/0-4-8, 6=1874/0-4-8  
Max Horz 2=-114(LC 7)  
Max Uplift 2=-589(LC 6), 6=-589(LC 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/66, 2-3=-3071/889, 3-4=-2617/835, 4-5=-4741/1229, 5-6=-5504/1497, 6-7=0/61  
BOT CHORD 2-9=-766/2593, 8-9=-447/2144, 6-8=-1232/4891  
WEBS 3-9=-878/405, 4-9=-223/609, 4-8=-676/2955, 5-8=-982/475

- NOTES** (10)
- 1) Wind: ASCE 7-02; 100mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; partially; MWFRS (low-rise) gable end zone; cantilever left exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Roof design snow load has been reduced to account for slope.
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 5) All plates are MT20 plates unless otherwise indicated.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 589 lb uplift at joint 2 and 589 lb uplift at joint 6.
  - 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
  - 10) This truss design is based upon the building code shown. This code has been specified by the project engineer/architect or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

**LOAD CASE(S)** Standard



August 7, 2008

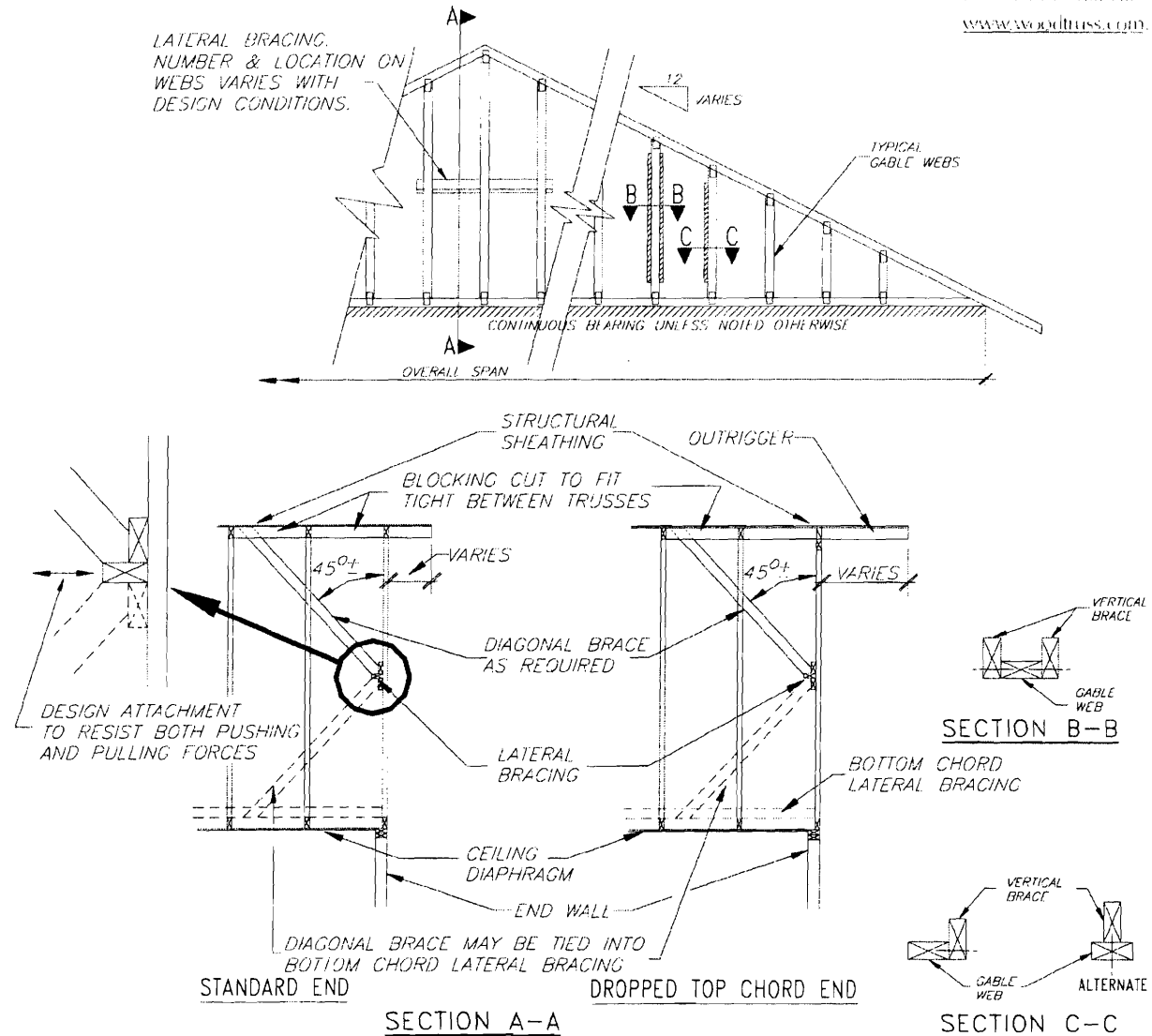
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-89 and BC511 Building Component Safety Information** available from Truss Plate Institute, 583 D'Ondra Drive, Madison, WI 53719.

**MITek**  
POWER TO PERFORM  
14515 N. Outer Forty, Suite #300  
Chesterfield, MO 63017

## WTCA STANDARD DETAILS

### Gable End Bracing

Figure 16.3.2 WTCA standard industry detail for gable end bracing. Available for free download at [www.woodtruss.com](http://www.woodtruss.com).

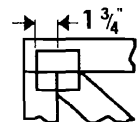


#### NOTES:

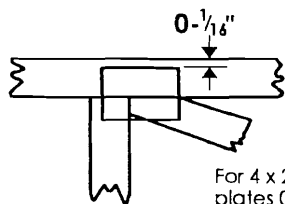
- 1) ACTUAL BRACING REQUIREMENTS WILL VARY DUE TO WIND LOAD, CODE CRITERIA, BUILDING HEIGHT, TRUSS SPAN, WEB LUMBER GRADE/SPECIES/ON CENTER SPACING AND OTHER VARIABLES. BRACING (AND ATTACHMENT) REQUIREMENTS SHOULD BE DESIGNED FOR EACH SPECIFIC JOB.
- 2) CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL, AS WELL AS THE DESIGN AND SPECIFICATION OF TEMPORARY AND PERMANENT BRACING OF THE ROOF SYSTEM IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

## Symbols

### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 x 4

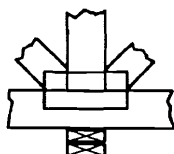
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

### BEARING



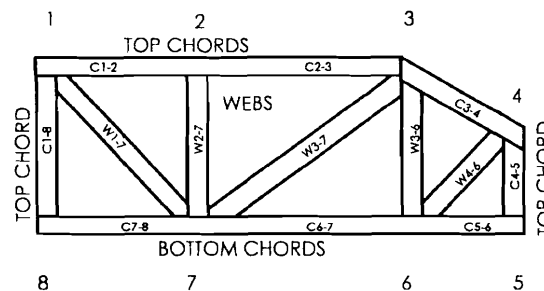
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A  
NER-487, NER-561  
95110, 84-32, 96-67, ER-3907, 9432A

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**MiTek**  
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MII-7473



## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

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

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

<b>Permit No:</b> 08-0877	<b>Date Applied For:</b> 07/17/2008	<b>CBL:</b> 407 H008001
------------------------------	--	----------------------------

<b>Location of Construction:</b> 47 DAKOTA ST	<b>Owner Name:</b> BRODIE IAN B & MATTHEW A F	<b>Owner Address:</b> 47 DAKOTA ST	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> property owner	<b>Contractor Address:</b>	<b>Phone</b>
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Additions - Dwellings	

<b>Proposed Use:</b> Single Family Home - Second floor addition w/ 2nd bath and 4th bedroom	<b>Proposed Project Description:</b> Single Family Home - Second floor addition w/ 2nd bath and 4th bedroom
--	--

**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Marge Schmuckal      **Approval Date:** 08/11/2008**Note:****Ok to Issue:** ☒

- 1) The existing shed shown on the plans shall be permitted after the fact and shall meet the requirements of the current zoning ordinance.
- 2) Separate permits shall be required for future decks, sheds, pools, and/or garages.
- 3) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.
- 4) This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.
- 5) This permit is being approved on the basis of revised plans submitted. Any deviations shall require a separate approval before starting that work.

**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Chris Hanson      **Approval Date:** 09/02/2008**Note:****Ok to Issue:** ☒

- 1) Fastener schedule per the IRC 2003
- 2) Hardwired interconnected battery backup smoke detectors shall be installed in all bedrooms, protecting the bedrooms, and on every level.
- 3) The design load spec sheets for any engineered beam(s) / Trusses must be submitted to this office.
- 4) Permit approved based on the plans submitted and reviewed w/owner/contractor, with additional information as agreed on and as noted on plans.
- 5) Frost protection must be installed per the enclosed detail as discussed w/owner/contractor.
- 6) 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.

**Comments:**

7/17/2008-mes: existing shed shown on site map is not meeting the setbacks - also the proposed new entry way is over 50 (88.7) sq ft and is only 20' from the front property line where 25' is required - will call - The 2nd floor being proposed is meeting the setbacks for the existing house. I called Ian (one of the owners) and explained the difficulty I had - He will get back to me after talking to his architect with new plans

8/11/2008-mes: 7/31/08 I received revised plans while I was on vacation - showing a covered entry way no more than 50 sq ft and 4.6' projecting from the bldg. Using 14-425 for approvals.



# 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: <u>47 DAKOTA STREET, PORTLAND, ME 04103</u>		
Total Square Footage of Proposed Structure/Area <u>768</u>	Square Footage of Lot <u>12,600</u>	Number of Stories <u>2</u>
Tax Assessor's Chart, Block & Lot Chart# <u>407</u> Block# <u>H</u> Lot# <u>8</u>	Applicant * <u>must</u> be owner, Lessee or Buyer* Name <u>MATTHEW FRAHM</u> Address <u>47 DAKOTA ST</u> City, State & Zip <u>PORTLAND, ME 04103</u>	Telephone: <u>480-272-1352</u> <u>207-239-1511</u>
Lessee/DBA (If Applicable)  <u>JUL 17 2008</u>	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>20,000</u> C of O Fee: \$ Total Fee: \$ <u>220</u>
Current legal use (i.e. single family) <u>RESIDENCE</u> Number of Residential Units <u>1</u> If vacant, what was the previous use? <u>0</u> Proposed Specific use: <u>RESIDENCE</u> Is property part of a subdivision? <u>NO</u> If yes, please name Project description: <u>SECOND FLOOR ADDITION, ADDITION OF A SECOND BATH + FOURTH BEDROOM</u>		
Contractor's name: <u>IAN BIRODIE, MATTHEW FRAHM</u> Address: <u>47 DAKOTA STREET</u> City, State & Zip <u>PORTLAND, ME 04103</u> Telephone: <u>207-239-1511</u> Who should we contact when the permit is ready: <u>IAN BIRODIE OR MATT FRAHM</u> Telephone: <u>480-272-1352</u> Mailing address: <u>47 DAKOTA STREET, PORTLAND, ME 04103</u>		

**Please submit all of the information outlined on the applicable 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 or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by the Inspections Division 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: Matthew Frahm, Ian Birodie Date: 7-17-08

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



407-H-8

This page contains a detailed description of the Parcel ID you selected. Press the **New Search** button at the bottom of the screen to submit a new query.

### Current Owner Information

<b>Card Number</b>	1 of 1
<b>Parcel ID</b>	407 H008001
<b>Location</b>	47 DAKOTA ST
<b>Land Use</b>	SINGLE FAMILY

<b>Owner Address</b>	BRODIE IAN B & MATTHEW A FRAHM JTS 47 DAKOTA ST PORTLAND ME 04103
----------------------	---

<b>Book/Page</b>	24838/277
<b>Legal</b>	407-H-8-9-10 DAKOTA ST 43-49  12402 SF

### Current Assessed Valuation

<b>Land</b>	<b>Building</b>	<b>Total</b>
\$73,500	\$101,700	\$175,200

### Property Information

<b>Year Built</b>	<b>Style</b>	<b>Story Height</b>	<b>Sq. Ft.</b>	<b>Total Acres</b>	
1985	Cape	1	1075	0.285	
<b>Bedrooms</b>	<b>Full Baths</b>	<b>Half Baths</b>	<b>Total Rooms</b>	<b>Attic</b>	<b>Basement</b>
2	1		5	Full Finsh	Pier/slab

### Outbuildings

<b>Type</b>	<b>Quantity</b>	<b>Year Built</b>	<b>Size</b>	<b>Grade</b>	<b>Condition</b>
SHED-FRAME	1	1985	10X12	C	G

### Sales Information

<b>Date</b>	<b>Type</b>	<b>Price</b>	<b>Book/Page</b>
02/12/2007	LAND + BLDING	\$190,000	24838-277
12/13/2004	LAND + BLDING	\$135,000	22116-293
05/22/2000	LAND + BLDING	\$116,900	15484-165

### Picture and Sketch

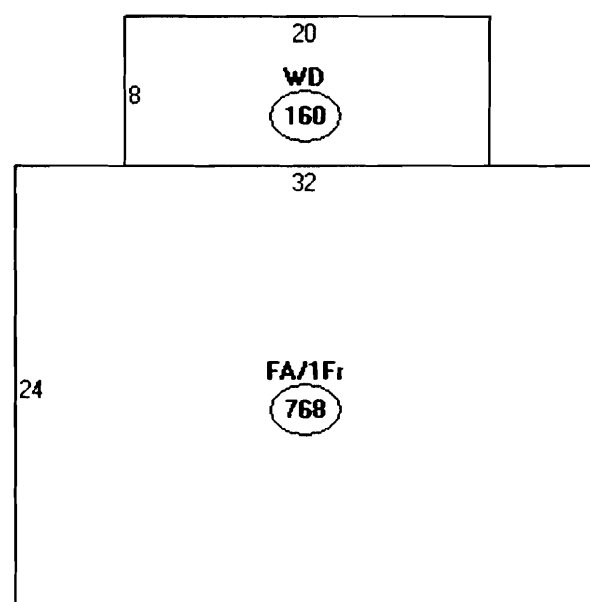
<b>Picture</b>	<b>Sketch</b>	<b>Tax Map</b>
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[Click here to view Tax Roll Information.](#)

Any information concerning tax payments should be directed to the Treasury office at 874-8490 or e-mailed.

**New Search!**

Good old building set back



Descriptor/Area

A: FA/1Fr  
768 sqft

B: WD  
160 sqft



## 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.**

  X   **Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers**

  X   **Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling**

  X   **Final inspection required at completion of work.**

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.**

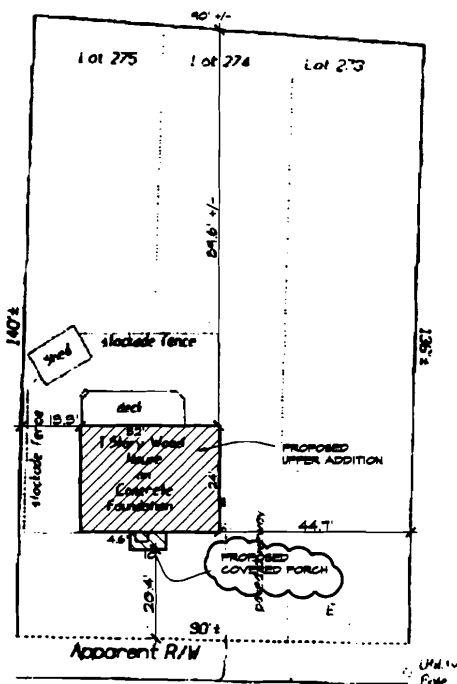
**CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.**

                    *Jon Bili*                      
Signature of Applicant/Designee

                    9-2-08                      
Date

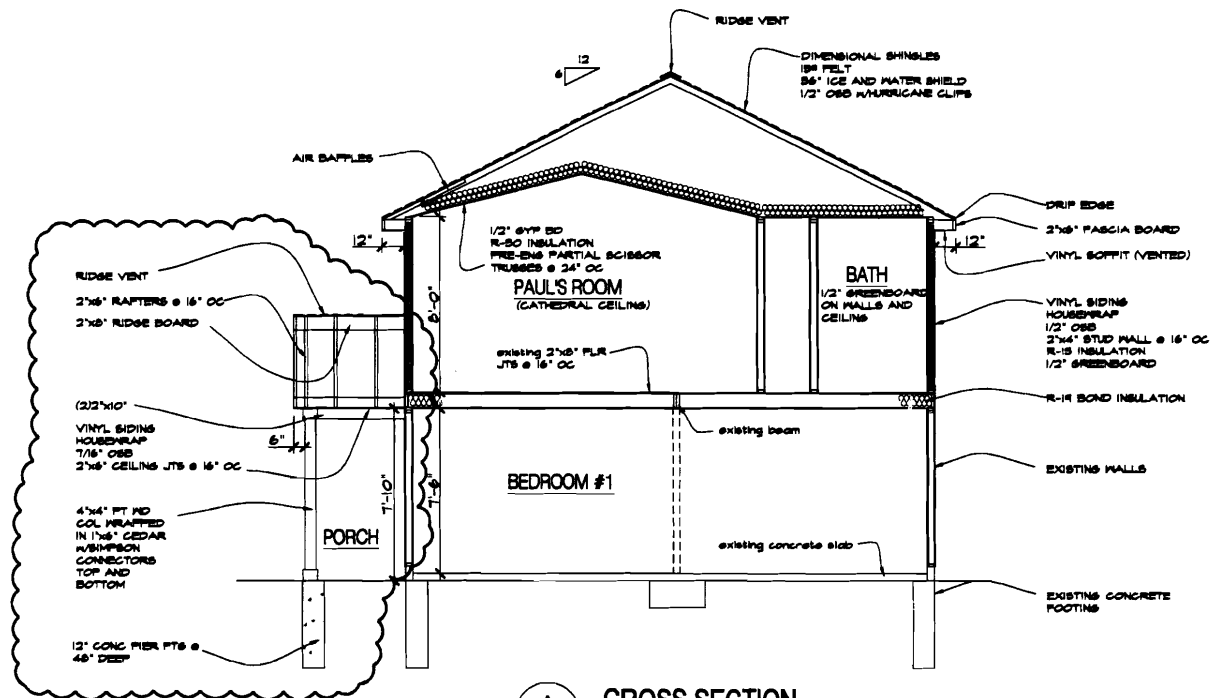
\_\_\_\_\_  
Signature of Inspections Official

\_\_\_\_\_  
Date

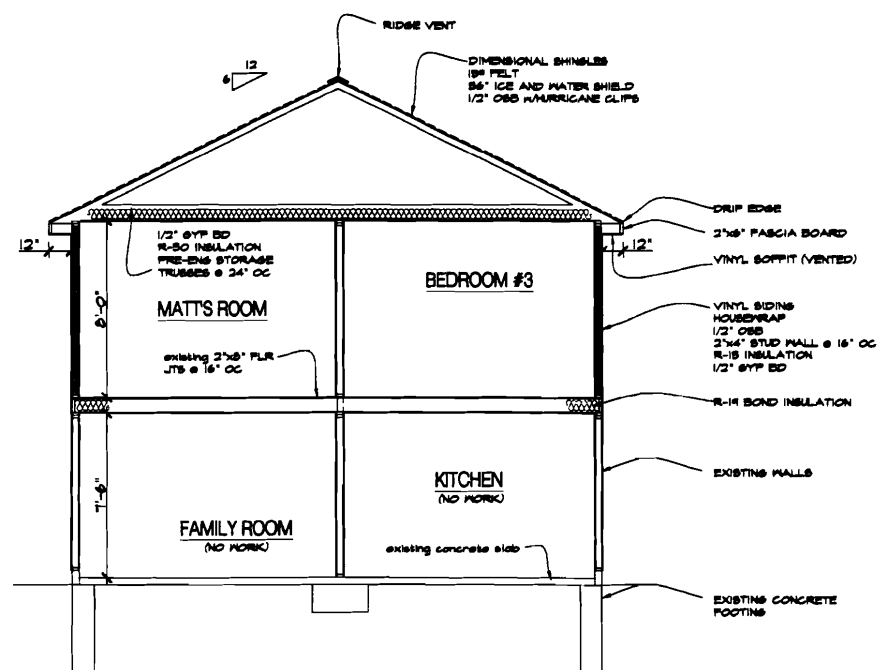


Dakota Street  
(bituminous)

**PROPOSED SITE PLAN**  
SCALE: 1"=20'-0"



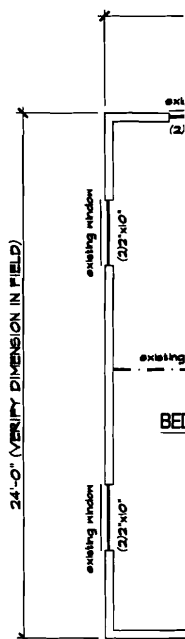
**CROSS SECTION A**  
SCALE: 1/4"=1'-0"



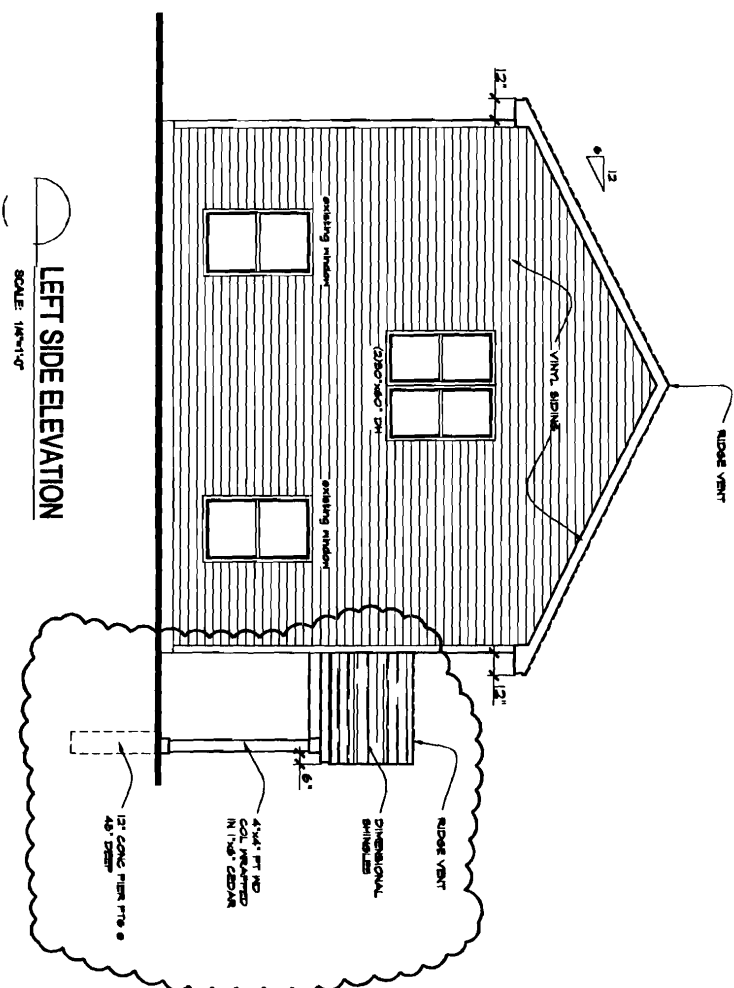
**CROSS SECTION B**  
SCALE: 1/4"=1'-0"

JUL 3 0 2008

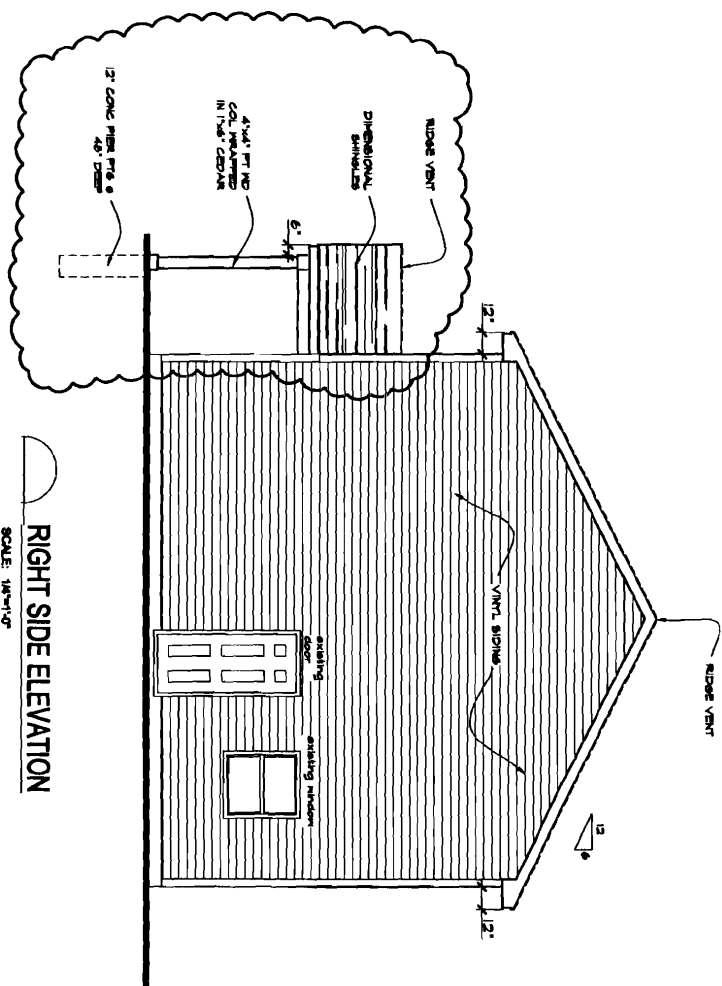
**1. HEEL HEIGHTS ON ALL TRUSSES TO MATCH;  
ALL FASCIA BOARDS TO LINE UP**



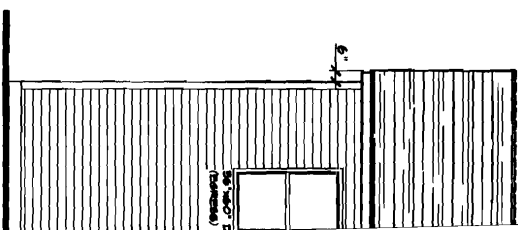
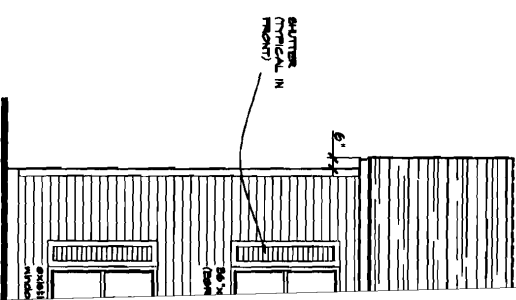
OK



LEFT SIDE ELEVATION  
SCALE: 1/8\"/>



RIGHT SIDE ELEVATION  
SCALE: 1/8\"/>





**CITY OF PORTLAND, MAINE**  
Department of Building Inspections

7.19 2008

Received from

Ian Eadie

Location of Work

47 Dakota

Cost of Construction \$

Permit Fee \$

220

Building (IL)

Plumbing (IS)

Electrical (I2)

Site Plan (U2)

Other

CBL:

407-118

Check #:

144

Total Collected

220

**THIS IS NOT A PERMIT**

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy

YELLOW - Office Copy

PINK - Permit Copy