

Plan No.:	K-46 GRIBBIN	1st Floor Information	2nd Floor Information
Serial No.:		Length: 40	Length: 40
Date:	October 17, 2006	Width: 28	Width: 28
Calculated by:	IRIS STAIRS	Wall height: 8	Wall height: 8
		Area: 1120	Area: 1120

HEAT LOSS CALCULATIONS FOR RESIDENTIAL CONSTRUCTION

Third Party Inspection Agency

Name:	PFS Corporation	PFS Corporation Northeast Region APPROVED
Address:	2877 Skatetown Rd.	
City & State or Province:	Bloomsburg, PA	

Manufacturer

Name:	Hospitality Homes Ltd.	R Wenner - 1 10/18/06 Approval limited to Factory Built Portion
Address:	110 First Plymouth Road	
City & State or Province:	Woodstock, NB	

Winter Design Conditions

Outside temperature -30 deg. Inside temperature 70 deg. ▲ Temperature 100 deg.

Insert data below only after all heat loss calculations have been completed

Total heat loss:	49293 Btuh	Model No.:	Boiler by others
Appliance Serial No.:		Manufactured by:	Hot water baseboard rough in
Rating Data: input	Btuh	Output at Bonnet:	
Description of controls:			

Summer Design Conditions

Outside temperature: deg. Outside temperature: deg.
North Latitude: Daily range:

Insert data below only after all heat gain calculations have been completed

Total heat gain:	Btuh	Model No.:	By others
Equipment capacity multiplier:		Manufactured by:	Hot water baseboard rough in
Appliance Serial No.:		Air volume:	cfm
Rating Data: cooling capacity:	Btuh		
Description of controls:			

Winter Construction Data (See Table 2)

Walls & partitions	5.0	R 20
Windows and glass doors	35.7	R 2.8
Doors	16.0	R 6.25
Ceilings	2.0	R 50
Floors	n/a	R

Summer Construction Data

Direction house faces
Walls & partitions
Windows and glass doors
Doors
Ceilings
Floors

▲ T HEATING		▲ T COOLING				HALF BATH				KITCHEN							
100																	
COMPONENTS	STRUCTURE & R	HTG ▲ T R	SC	COOLING		L=	W=	H=	A=	HEAT LOSS	HEAT GAIN	L=	W=	H=	A=	HEAT LOSS	HEAT GAIN
				▲ T+SC	R or CLF												
GROSS EXPOSED WALLS	A 20	5.0				152						136					
WINDOWS, GLASS DOORS (OVER 50% GLAZING), SKYLIGHTS	A 2.8	35.7				BSH3040 = 9 sq ft				321		BSH3040 = 9 sq ft				321	
OTHER EXPOSED DOORS	A 6.25	16.0															
NET EXPOSED WALLS (exclude above grade basement walls)	A 19.5	5.0				143				715		127				635	
ABOVE GRADE BASEMENT WALLS	A N/A																
CEILINGS	A 50	2.0				90						221				442	
EXPOSED FLOORS	A N/A	n/a				n/a				n/a		n/a				n/a	
OTHER	A N/A																
BELOW GRADE HEAT LOSS	WALLS	DEPTH	FACTOR	BSMTx▲ T	x PER							x PER					
		1															
	2																
	FLOORS	DEPTH	FACTOR	BSMTx▲ T	x PER								x PER				
1																	
2																	
TOTAL CONDUCTIVE LOSS				24142						1216						1398	
TOTAL CONDUCTIVE GAIN																	
AIR LEAKAGE	HEAT LOSS MULTIPLIER			0.49						598						688	
	HEAT GAIN MULTIPLIER																
INTERNAL GAINS (PEOPLE & APPLIANCES)																	
NET LOAD (ADD LINES 10, 11 & 12)										1815						2086	
DUCT/PIPE HEAT LOSS/GAIN MULTIPLIER THROUGH UNCONDITIONED SPACES				10.00%						181						209	
TOTAL HEAT LOSS PER ROOM (ADD LINES 13 & 14)										1996						2295	
TOTAL HEAT GAIN PER ROOM (ADD LINES 13 & 14)x1.3																	
SUB TOTAL HEAT LOSS (WHOLE HOUSE)						39616				TOTAL HEAT LOSS				49293			
SUB TOTAL HEAT GAIN (WHOLE HOUSE)										TOTAL HEAT GAIN							
VENTILATION LOSS (WHOLE HOUSE)						9677											
VENTILATION GAIN (WHOLE HOUSE)																	

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DINING ROOM				DEN				FOYER			
L=		HEAT LOSS	HEAT GAIN	L=		HEAT LOSS	HEAT GAIN	L=		HEAT LOSS	HEAT GAIN
W=	13			W=	13			W=	10		
H=	8			H=	8			H=	8		
A=	169			A=	169			A=	130		
208				208				80			
72 PATIO = 40 sq ft		1429		BSH4264 = 19 sq ft	679			36" 2SL = 39 sq ft		624	
168		840		151	755			41		205	
PFS Corporation Northeast Region APPROVED R Wenner - 1 10/18/06 Approval limited to Factory Built Portion											
169		338		169	338			130		260	
n/a		n/a		n/a		n/a		n/a		n/a	
x PER				x PER				x PER			
x PER				x PER				x PER			
		2607			3129					1089	
		1282			1539					536	
		3888			4667					1625	
LOSS		389		LOSS	467			LOSS		162	
GAIN				GAIN				GAIN			
		4277			5134					1787	

Job Name: K-46

Truss ID: K-46-A

Qty: 1

BRG X-LOC REACT SIZE REQ'D
 1 0-2-12 1610 5.50" 2.53"
 2 13-10-4 32 1.50" 1.50"
 3 13-9-8 1531 3.00" 2.40"
 BRG REQUIREMENTS shown are based ONLY on the truss material at each bearing
 MAX DEFLECTION (span):
 L/999 MEM 7-8 (LIVE) LC 35
 L = -0.15" D = -0.15" T = -0.30"

CRITICAL MEMBER FORCES:
 TC COMP (DUR) / TENS (DUR) / CSI
 1-2 -2512(1.15) / 106(1.60) 0.76
 2-3 -851(1.15) / 0.73
 3-4 -772(1.15) / 131(1.60) 1.00
 4-5 -232(1.15) / 131(1.60) 1.00
 5-0 -4(1.15) / 1(1.60) 0.00

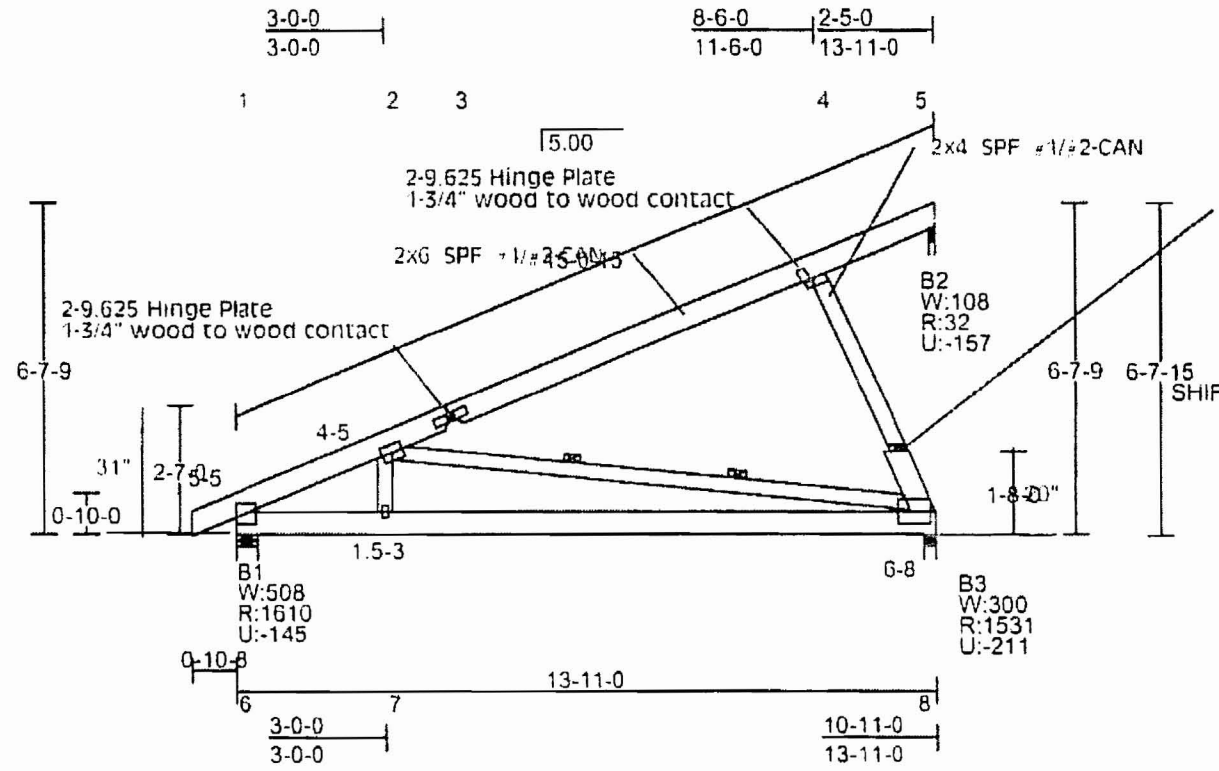
BC COMP (DUR) / TENS (DUR) / CSI
 6-7 -305(1.60) / 2267(1.15) 0.91
 7-8 -317(1.60) / 2273(1.15) 0.70
 8-0 0(1.15) / 0(1.25) 0.00

WB COMP (DUR) / TENS (DUR) / CSI
 2-7 -70(1.15) / 283(1.25) 0.11
 2-8 -175(1.15) / 230(1.60) 0.85
 4-8 -1265(1.15) / 266(1.60) 0.42

TC 2x6 SPF #1/#2-CAN
 BC 2x6 SPF #1/#2-CAN
 WEB 2x4 SPF STUD-CAN
 2x6 SPF #1/#2-CAN 4-8
 Lumber shear allowables are per NDS. Refer to Joint OC Detail Sheet for Maximum Rotational Tolerance used IRC/IBC truss plate values are based on testing and approval as required by IBC 1703 and ANSI/TPI and are reported in available documents such as ICBO #1607.
 Mark all interior bearing locations. Install interior supports before erection. Shim bearings (if needed) for rec. support.

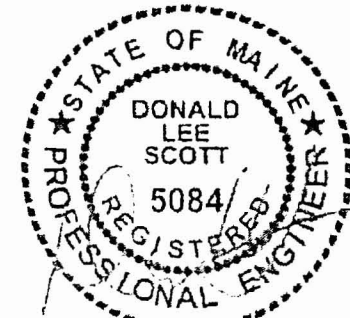
Web bracing required at each location shown. See standard details (TXD1087001-001 rev1). **TIPAI = PLATE MONITOR USED-See Joint Report**
 Designed per ANSI/TPI 1-2002
 This design does not account for long term (time dependent loading (creep). Building Designer must account for this.
 THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.
 Loaded for 10 PSF non-concurrent BC LL.
 ASCE7-02 SNOW LOAD DESIGN CRITERIA:
 Pg = 70 psf, Ce = 1.0, I = 1.0, Ct = 1.10
 Load Profile:
 Pspan = 28-0-0, LO = 0-0-0, S = 5.00

UPLIFT REACTION(S):
 Support C&C Wind Non-Wind
 1 -145 lb
 2 -29 lb -157 lb
 3 -211 lb
 HORIZONTAL REACTION(S):
 Support 1 228 lb
 Support 3 228 lb
 This truss is designed using the ASCE7-02 Wind Specification
 Bldg Enclosed = Yes, Importance Factor = 1.00
 Truss Location = Not End Zone
 Hurricane/Ocean Line = NO Exp Category = C
 Bldg Length = 55.00 ft Bldg Width = 30.00 ft
 Mean roof height = 21.33 ft mph = 95
 TPI Standard Occupancy, Dead Load = 10.8 psf
 Designed as Main Wind Force Resisting System and Components and Cladding
 Tributary Area = 28 sqft
 Load Profile:
 Pspan = 28-0-0, LO = 0-0-0, S = 5.00



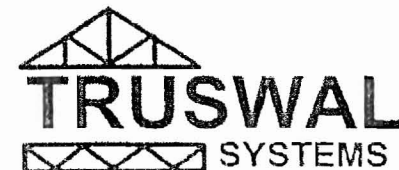
Connection required
 Web Axial Force +/- 1265#
 (By others)

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 Approval limited to
 Factory Built Portion



10/9/2006

All connector plates are Truswal 20 ga. unless shown by "18" (18 ga.), "H" (16 ga.), or "MX" (TWMX 20 ga.), positioned per Joint Details Report. Circled plates and false frame plates are shown above. Shim gable stud plates to avoid overlap with structural plates (or staple).



1101 F. Great 3 W. Pkwy., Arlington TX 76011
 TRUSPLUS 6.0 VER: T6.5.31

WARNING Read all notes on this sheet and give a copy of it to the Erecting Contractor.
 This design is for an individual building component not truss system. It has been based on specifications provided by the component manufacturer and done in accordance with the current versions of TPI and AFPA design standards. No responsibility is assumed for dimensional accuracy. Dimensions are to be verified by the component manufacturer and/or building designer prior to fabrication. The building designer must ascertain that the loads utilized on this design meet or exceed the loading imposed by the local building code and the particular application. The design assumes that the top chord is laterally braced by the roof or floor sheathing and the bottom chord is laterally braced by a rigid sheathing material directly attached, unless otherwise noted. Bracing provisions for lateral support of components members only to reduce buckling length. This component shall not be placed in any environment that will cause the moisture content of the wood to exceed 18% and/or cause connector plate corrosion. Fabricate, handle, install and brace this truss in accordance with the following standards: Joint and Cutting Detail Reports, available as output from Truswal software. ANSI/TPI 1-2002, WTCOA 1-1, Wood Truss Council of America Standard Design Responsibilities, BUILDING COMPONENT SAFETY INFORMATION (BCSI) 1-03 and BCSI SUMMARI SHEETS by WTCOA and TPI. The Truss Plate Institute (TPI) is located at 605 D Center Drive, Madison, Wisconsin 53719. The American Forest and Paper Association (AFPA) is located at 1111 14th Street, NW, Ste. 800, Washington, DC 20005.

Cust: HARTFORD-GRIBBIN	
WO: Drive_C_k-46_L00005_J00001	
Dsgnr: SK	#LC = 37 WT: 97#
TC Live 54.00 psf	LiveDur L=1.15 P=1.15
TC Snow(Ps) 53.90 psf	SnowDur L=1.15 P=1.15
TC Dead 8.00 psf	Rep Mbr Bnd / Comp / Tens
BC Live 0.00 psf	1.15 / 1.10 / 1.10
BC Dead 10.00 psf	O.C.Spacing 2-0-0
Bldg Code:IRC-2003	DEFL RATIO: L/240 TC: L/240

Job Name: K-46

Truss ID: K-46-B

Qty: 1

BRG X-LOC REACT SIZE REQ'D
 1 0-2-12 1592 5.50" 2.50"
 2 13-7-12 42 1.50" 1.50"
 3 13-7-4 1566 2.50" 2.46"
 BRG REQUIREMENTS shown are based ONLY on the truss material at each bearing
 MAX DEFLECTION (span) :
 L999 MEM 7-8 (LIVE) LC 35
 L = -0.14" D = -0.14" T = -0.29"
 CRITICAL MEMBER FORCES:

TC	COMP (DUR.)	TENS (DUR.)	CSI
1-2	-247(1.15)	107(1.60)	0.76
2-3	-820(1.15)	0.73	
3-4	-732(1.15)	11(1.60)	1.00
4-5	-240(1.15)	17(1.60)	1.00
5-0	-4(1.15)	11(1.60)	0.00

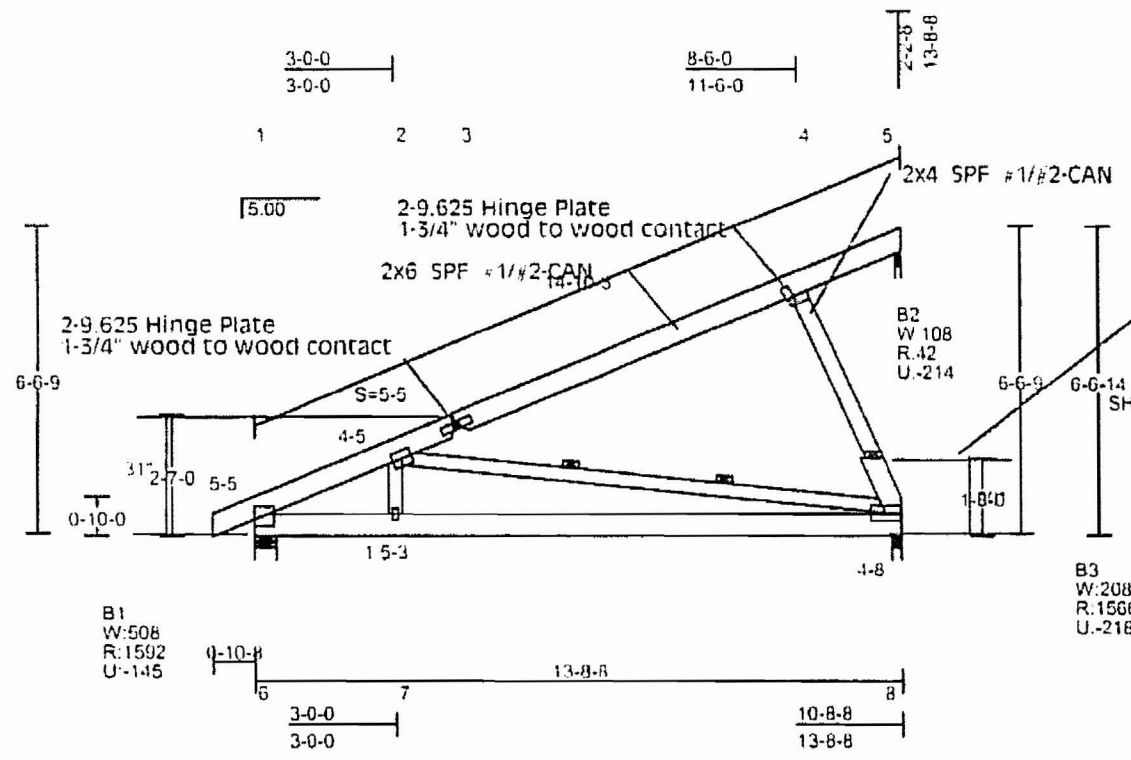
BC	COMP (DUR.)	TENS (DUR.)	CSI
6-7	-302(1.60)	2230(1.15)	0.89
7-8	-315(1.60)	2236(1.15)	0.69
8-0	0(1.15)	0(1.15)	0.00

WB	COMP (DUR.)	TENS (DUR.)	CSI
2-7	-72(1.15)	274(1.25)	0.11
2-8	-1750(1.15)	233(1.60)	0.64
4-8	-1283(1.15)	267(1.60)	0.43

TC 2x6 SPF #1/#2-CAN
 BC 2x6 SPF #1/#2-CAN
 WEB 2x4 SPF STUD-CAN
 2x6 SPF #1/#2-CAN 4-8
 Lumber shear allowables are per NDS Refer to Joint OC Detail Sheet for Maximum Rotational Tolerance used IRC/BC truss plate values are based on testing and approval as required by IRC 1703 and ANSI/TPI and are reported in available documents such as ICBO #1607.
 Mark all interior bearing locations. Install interior supports before erection. Snim bearings (if needed) for req. support.

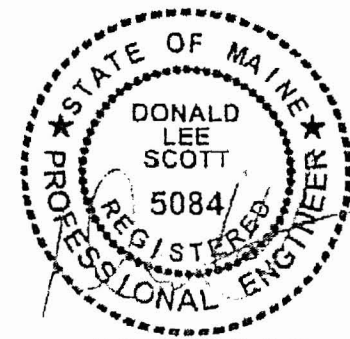
Web bracing required at each location shown. See standard details (TX01087001-001 rev1). **IPM) = PLATE MONITOR USED-See Joint Report**
 Designed per ANSI/TPI 1-2002
 This design does not account for long term time dependent loading (creep). Building Designer must account for this.
 THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.
 Loaded for 10 PSF non-concurrent BCLL.
 ASCE7-02 SNOW LOAD DESIGN CRITERIA:
 Pg = 70 psf, Ce = 1.0, I = 1.0, Ct = 1.10
 Load Profile:
 Pspan = 28-0-0, LO = 0-0-0, S = 5-00

UPLIFT REACTION(S):
 Support C2C Wind Non-Wind
 1 -145 lb
 2 -39 lb -214 lb
 3 -218 lb
 HORIZONTAL REACTION(S):
 Support 1 223 lb
 Support 3 223 lb
 This truss is designed using the ASCE7-02 Wind Specification
 Bldg Enclosed = Yes, Importance Factor = 1.00
 Truss Location = Not End Zone
 Hurricane/Ocean Line = No, Exp Category = C
 Bldg Length = 55.00 ft, Bldg Width = 39.00 ft
 Mean roof height = 21.33 ft, mph = 95
 TPI Standard Occupancy, Dead Load = 10.8 psf
 Designed as Main Wind Force Resisting System and Components and Cladding
 Tributary Area = 27 sqft
 Load Profile:
 Pspan = 28-0-0, LO = 0-0-0, S = 5-00

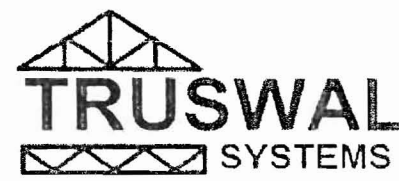


Connection required
 Web Axial Force ???
 (By others)

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 Approval limited to
 Factory Built Portion



All connector plates are Truswal 20 ga. unless shown by *18*(18 ga.), *H*(16 ga.), or *MX*(TW/MX 20 ga.), positioned per Joint Details Report. Circled plates and false frame plates are positioned as shown above. Shift gable stud plates to avoid overlap with structural plates (or staple).



1101 N. Great Smoky Parkway, Arlington, TX 76010
 TRUSPLUS 6.0 VER: T6.5.31

WARNING Read all notes on this sheet and give a copy of it to the Erecting Contractor.
 This design is for an individual building component not truss system. It has been based on specifications provided by the component manufacturer and done in accordance with the current versions of TPI and AFPA design standards. No responsibility is assumed for dimensional accuracy. Dimensions are to be verified by the component manufacturer and/or building designer prior to fabrication. The building designer must ascertain that the loads utilized on this design meet or exceed the loading imposed by the local building code and the particular application. The design assumes that the top chord is laterally braced by the roof or floor sheathing and the bottom chord is laterally braced by a rigid sheathing material directly attached, unless otherwise noted. Bracing shown is for lateral support of components members only to reduce buckling length. This component shall not be placed in any environment that will cause the moisture content of the wood to exceed 16% under cause connector plate corrosion. Fabricate, handle, install and brace this truss in accordance with the following standards: Joint and Cutting Detail Reports available as output from Truswal software.
 ANSI/TPI 1 - W.TCA 1 - Wood Truss Council of America Standard Design Responsibilities: BUILDING COMPONENT SAFETY INFORMATION - (BCSI 1-03) and BCSI SUMMARY SHEETS by W.TCA and TPI. The Truss Plate Institute (TPI) is located at 693 O. Onofrio Drive, Madison, Wisconsin 53719. The American Forest and Paper Association (AFPA) is located at 1111 19th Street, NW, Ste 600, Washington, DC 20036.

Cust: HARTFORD-GRIBBIN	
WO: Drive_C_k-46_L00005_J00001	
Dsgnr: SK	#LC = 37 WT: 95#
TC Live 54.00 psf	LiveDur L=1.15 P=1.15
TC Snow(Ps) 53.90 psf	SnowDur L=1.15 P=1.15
TC Dead 8.00 psf	Rep Mbr Bnd / Comp / Tens
BC Live 0.00 psf	1.15 / 1.10 / 1.10
BC Dead 10.00 psf	O.C.Spacing 2-0-0
Bldg Code:IRC-2003	DEFL RATIO: L/240 TC: L/240

Job Name: K-46

Truss ID: TRUSS01

Qty: 2

BRC X-LOC REACT SIZE REQ'D
 1 0-2-4 4167 4.50 3.27"
 2 8-7-12 3369 4.50 2.64"

BRC REQUIREMENTS shown are based ONLY on the truss material at each bearing
 MAX DEFLECTION (span):
 L/999 MEM 6-7 (LIVE) LC 1
 L = -0.06" D = -0.02" T = -0.08"

CRITICAL MEMBER FORCES:

TC	COMP (DUR.)	TENS (DUR.)	CSI
1-2	0(1.15)	0(1.15)	0.11
2-3	-4800(1.15)		0.27
3-4	-4542(1.15)		0.25

BC	COMP (DUR.)	TENS (DUR.)	CSI
5-6		2307(1.15)	0.80
6-7		4641(1.15)	0.93
7-8	0(1.60)	0(1.15)	0.34

WB	COMP (DUR.)	TENS (DUR.)	CSI
1-5	-173(1.15)	531(1.60)	0.01
2-5	5139(1.15)		0.58
2-6		2510(1.15)	0.54
3-6		206(1.15)	0.04
3-7	-502(1.15)	100(1.60)	0.05
4-7		5355(1.15)	0.66
4-8	-3029(1.15)		0.13

TC 2x4 SPF #1/#2-CAN
 BC 2x6 SPF #1/#2-CAN
 WEB 2x4 SPF STUD-CAN
 2x6 SPF #1/#2-CAN 5-1, 8-4
 2x4 SPF #1/#2-CAN 7-4

Lumber shear allowables are per NDS. IRC/IBC truss plate values are based on testing and approval as required by IBC 1703 and ANSI/TPI and are reported in available documents such as ICSO #1607. Drainage must be provided to avoid ponding. Permanent bracing is required (by others) to prevent rotation/toppling. See BCSI 1-03 and ANSI/TPI 1. End verticals are designed for axial loads only unless noted otherwise. Extensions above or below the truss profile (if any) have been designed for loads indicated only. Horizontal loads applied at the end of the extensions have not been considered unless shown. A drop-leg to an otherwise unsupported wall may create a hinge effect that requires additional design consideration (by others).

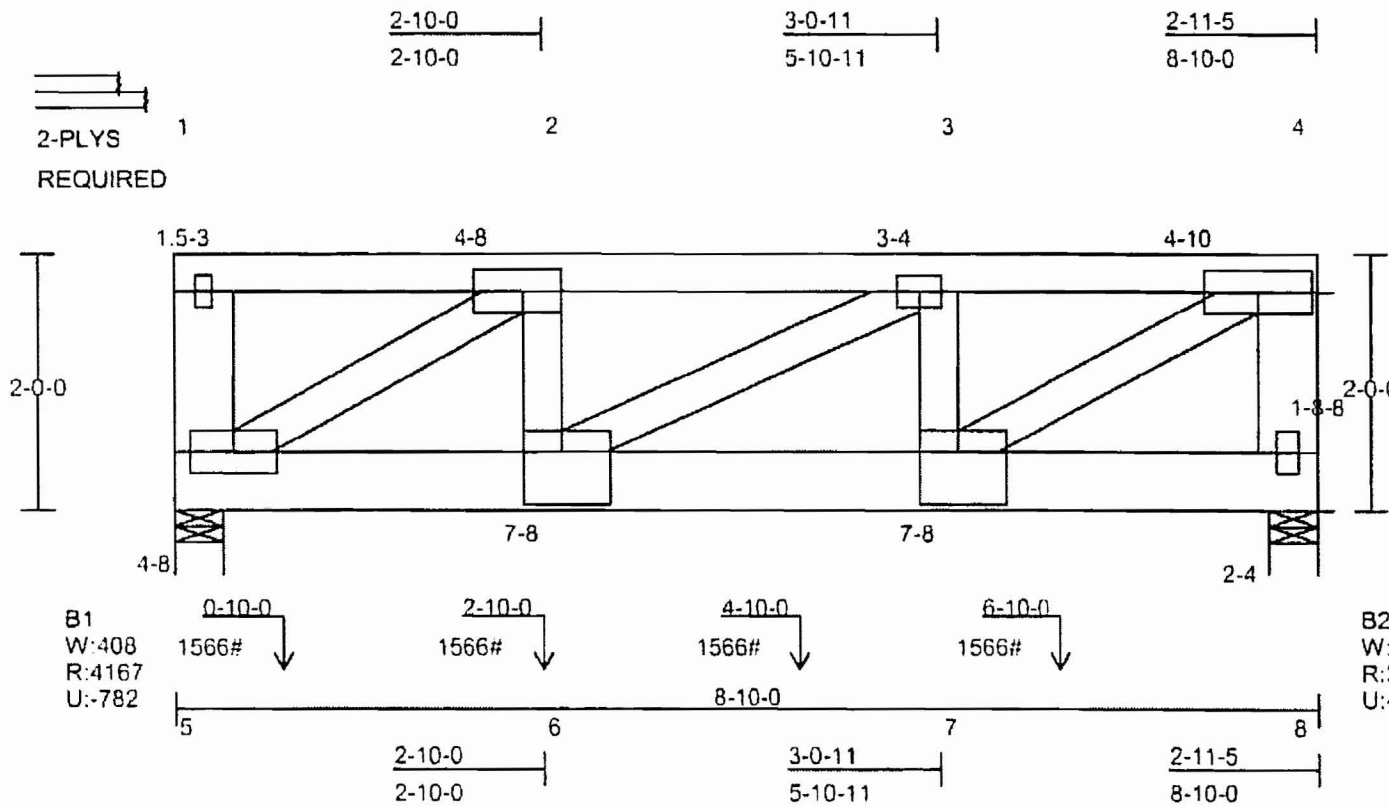
Designed per ANSI/TPI 1-2002
 This design does not account for long term time dependent loading (creep). Building Designer must account for this. Refer to Joint QC Detail Sheet for Maximum Rotational Tolerance used. THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.
 ASCE 7-02 SHOW LOAD DESIGN CRITERIA:
 Pg = 70 psf, Ce = 1.0, I = 1.0, Ct = 1.10
 + + + + +
 Nail pattern shown is for PLF loads only. Concentrated loads MUST be distributed to each ply equally. On multi-ply with hangers, use 3" nails min. into the carrying member. For more than 2 ply, use additional fasteners as indicated from the back plys, or use any other approved detail (by others).
 + + + + +
 2-PLY Nail w/10d COMMON, staggered per NDS!
 In: TC-2 BC-2 WEBS-2 ** PER FOOT**

UPLIFT REACTION(S):
 Support C&C Wind Non-Wind
 1 -782 lb
 2 -632 lb

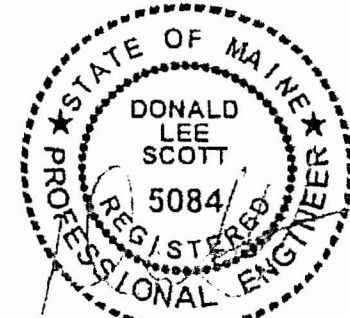
This truss is designed using the ASCE 7-02 Wind Specification
 Bldg Enclosed = Yes, Importance Factor = 1.00
 Truss Location = Not End Zone
 Hurricane/Ocean Line = No, Exp Category = C
 Bldg Length = 55.00 ft, Bldg Width = 30.00 ft
 Mean roof height = 19.00 ft, mph = 95
 TPI Standard Occupancy, Dead Load = 10.8 psf
 Designed as Main Wind Force Resisting System and Components and Cladding
 Tributary Area = 105 sqft

LOAD CASE #1 DESIGN LOADS

Dir	L.Pif	L.Loc	R.Pif	R.Loc	L/UTL
TC Vert	124.00	0-0-0	124.00	6-10-0	0.87
BC Vert	20.00	0-0-0	20.00	6-10-0	0.00
Type	lbs	X Loc	L/UTL		
BC Vert	1566.0	0-10-0	0.75		
BC Vert	1566.0	2-10-0	0.75		
BC Vert	1566.0	4-10-0	0.75		
BC Vert	1566.0	6-10-0	0.75		



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 Approval limited to
 Factory Built Portion



10/9/2006

All connector plates are Truswal 20 ga. unless shown by "18" (18 ga.), "H" (16 ga.), or "MX" (TWMX 20 ga.), positioned per Joint Details Report. Circled plates and false frame plates are positioned as shown above. Shift gable stud plates to avoid overlap with structural plates (or staple).

WARNING Read all notes on this sheet and give a copy of it to the Erecting Contractor.

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ANSI/TPI 1 - WTCOA 1 - Wood Truss Council of America Standard Design Responsibility - BUILDING COMPONENT SAFETY INFORMATION - (BCSI 1-03) and BCSI SUMMARY SHEETS by WTCOA and TPI. The Truss Plate Institute (TPI) is located at 583 D Oakfield Drive, Madison, Wisconsin 53712. The American Forest and Paper Association (AFPA) is located at 1111 18th Street, N.W. Ste 400, Washington, DC 20036.

Cust: HARTFORD-GRIBBIN
 WO: Drive_C_k-46_L00005_J00001
 Dsgnr: SK #LC = 42 WT: 58#

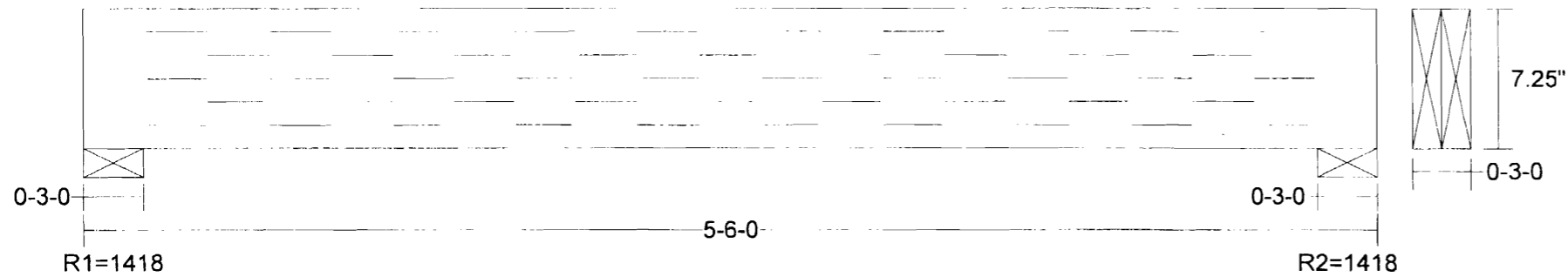
TC Live	54.00 psf	LiveDur L=1.15 P=1.15
TC Snow(Ps)	53.90 psf	SnowDur L=1.15 P=1.15
TC Dead	8.00 psf	Rep Mbr Bnd / Comp / Tens
BC Live	0.00 psf	1.00 / 1.00 / 1.00
BC Dead	10.00 psf	O.C.Spacing 2-0-0

Bldg Code:IRC-2005 DEFL RATIO: L/240 TC: L/240



TRUSPLUS 6.0 VER: T6.5.31

#2 SPF 1.50" X 7.25" 2 Plies ASD USA	Project GRIBBIN	PORTLAND,ME	Date 11-Oct-06	Due Date 06-Oct-06	Pieces	Assembled Beams	Mark/Job
	Beam 2-30 DOOR HEADER		Designed by	Verified by	2	1	0F-2-30 K-46



Roof
Girder 2 Plies

Tributary Width	7-6-0	Load Sharing	NO
Deflection		Load Duration	1.15
Total	L/240	Preservative	NONE
Live	L/480	Service Condition	DRY
Code	UBC/BOCA/SBCCI	Importance	1.00
IRC/IBC		Bearing Species	SPF
Slope	NONE		

Reactions

Maximum from all load cases.
Reactions lb.

Bearing	1	2
Live	1063	1063
Dead	354	354
Total	1418	1418

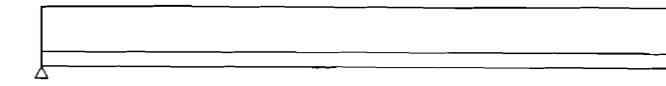
Engineering Notes

Girders are designed to be supported on the bottom edge only.
Multiple plies must be fastened together as per manufacturer's details.
Point loads must be supported equally by all plies.
Girder must be laterally braced along the top edge at a max. of 12 ft. o.c.

Applied Loads

Load locations are measured from the left end of the beam.
Listed loads are cumulative.

Load Diagram



Uniform Loads	Live Load PSF	Dead Load PSF
	54.0	18.0

Maximum Shear and Bending Analysis

	Actual	Allowed	Ratio	Location
Shear lb.	1091	1167	0.93	Span 1 Brg 2
Bending lb.ft.	1860	2645	0.70	2-7-8 in Span 1

Maximum Deflection Analysis

	Actual	Allow	Ratio	Location
Total (inch)	0.07=L/897	0.26	0.27	2-7-8 in Span 1
Live (inch)	0.05=L/999	0.13	0.40	2-7-8 in Span 1

Custom Notes

PFS Corporation
Northeast Region
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Jager Building Systems Inc
Multi for Windows
V3.3 526

NOTES:
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LUMBER:
1 Dry service condition, unless noted otherwise

2. LVL must not be treated with fire retardant or corrosive chemicals

HANDLING & INSTALLATION :

1. LVL beams cannot be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged LVL's must not be used

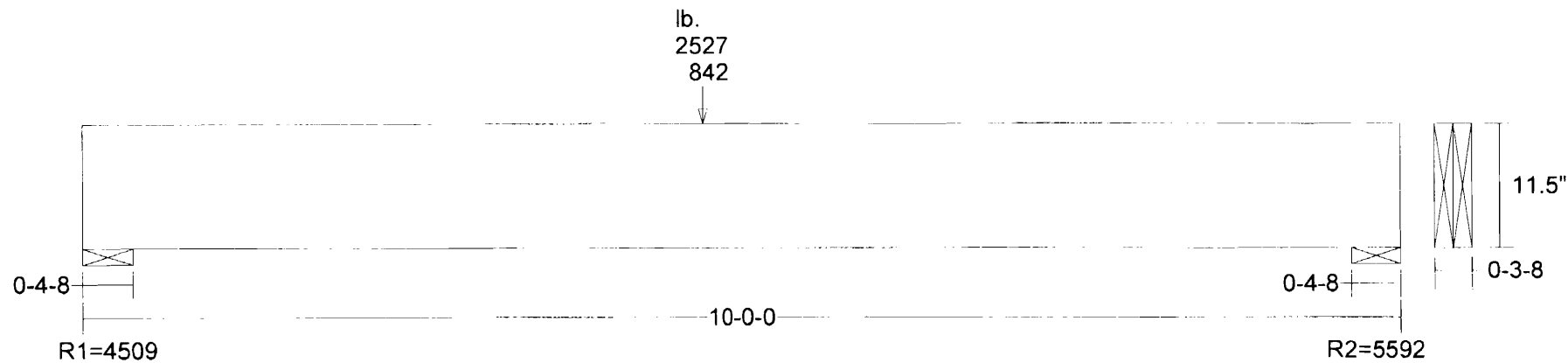
4. Design assumes top edge is laterally restrained.
5. Provide lateral support at bearing points to avoid lateral displacement and rotation.
6. For flat roofs provide proper drainage to prevent ponding

Hospitality Homes Ltd

Drawing Number

Date

Selectem 1.8 1.75" X 11.5" 2 Plies ASD USA	Project GRIBBIN	PORTLAND,ME	Date 11-Oct-06	Due Date 06-Oct-06	Pieces	Assembled Beams	Mark/Job
	Beam	9' ARCH- 1 FLOOR ABOVE	Designed by	Verified by	2	1	1F-ARCH K-46



Roof
Girder 2 Plies

Tributary Width	7-6-0	Load Sharing	NO
Deflection		Load Duration	1.00
Total	L/240	Preservative	NONE
Live	L/480	Service Condition	Dry
Code	UBC/BOCA/SBCCI	Importance	1.00
IRC/IBC		Bearing Species	SPF
Slope	NONE		

Reactions

Maximum from all load cases.
Reactions lb.

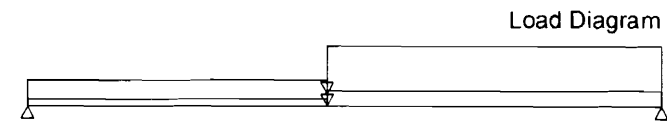
Bearing	1	2
Live	3337	4149
Dead	1172	1443
Total	4509	5592

Engineering Notes

Girders are designed to be supported on the bottom edge only.
Multiple plies must be fastened together as per manufacturer's details.
Point loads must be supported equally by all plies.
Girder must be laterally braced along the top edge at a max. of 12 ft. o.c.

Applied Loads

Load locations are measured from the left end of the beam.
Listed loads are cumulative.



Maximum Shear and Bending Analysis

	Actual	Allowed	Ratio	Location
Shear lb.	4679	6708	0.70	Span 1 Brg 2
Bending lb.ft.	16141	18518	0.87	4-6-2 in Span 1

Maximum Deflection Analysis

	Actual	Allow	Ratio	Location
Total (inch)	0.31=L/377	0.48	0.64	4-10-2 in Span 1
Live (inch)	0.23=L/508	0.24	0.95	4-10-2 in Span 1

Custom Notes

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Factory Built Portion

Uniform Loads	Live Load PSF	Dead Load PSF		
	0.0	0.0		
Point Loads	Location	Live lb.	Dead lb.	
	4-8-6	2526.75	842.25	
Partial Uniform	Start	End	Live PSF	Dead PSF
	0	4-8-6	40	15
	4-8-6	10-0-0	94	33



Jager Building Systems Inc.
Multi for Windows
V3 3 526

NOTES:
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LUMBER:
1. Dry service condition, unless noted otherwise

2 LVL must not be treated with fire retardant or corrosive chemicals.

HANDLING & INSTALLATION :

- LVL beams cannot be cut or drilled.
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals.
- Damaged LVL's must not be used.

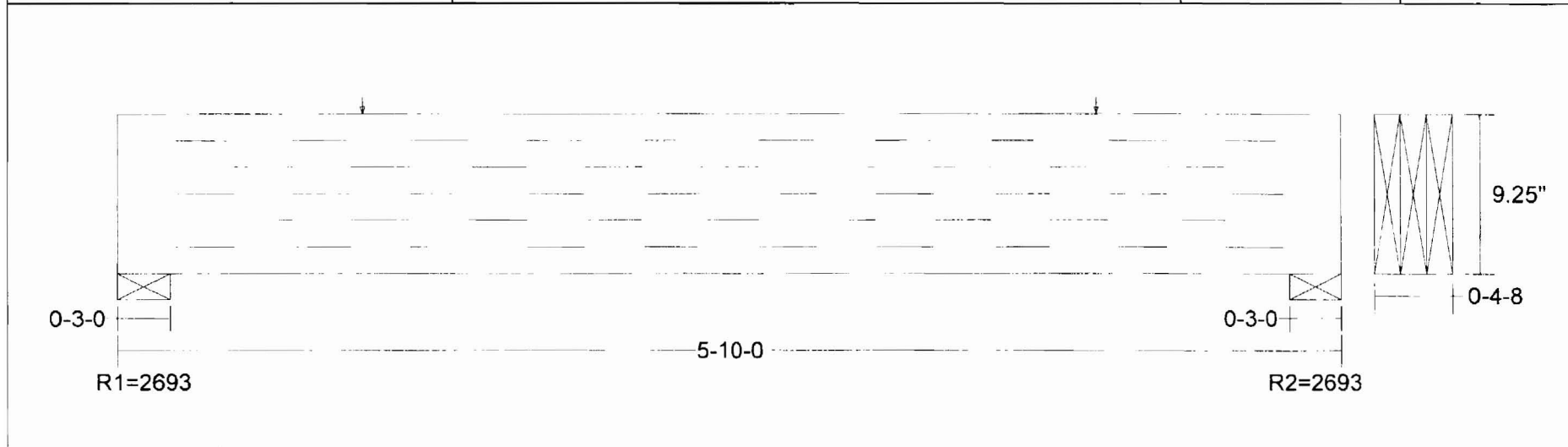
- Design assumes top edge is laterally restrained.
- Provide lateral support at bearing points to avoid lateral displacement and rotation.
- For flat roofs provide proper drainage to prevent ponding.

Hospitality Homes Ltd

Drawing Number

Date

#2 SPF 1.50" X 9.25" 3 Plies ASD USA	Project GRIBBIN	PORTLAND,ME	Date 11-Oct-06	Due Date 06-Oct-06	Pieces	Assembled Beams	Mark/Job
	Beam EXT 36" - 2-SL -1 FLOOR ABOVE		Designed by	Verified by	3	1	1F-EXT36"2SL K-46



Roof Girder 3 Plies		
Tributary Width	Load Sharing	NO
7-6-0	Load Duration	1.15
Deflection	Preservative	NONE
Total L/240	Service Condition	DRY
Live L/480	Importance	1.00
Code	Bearing Species	SPF
UBC/BOCA/SBCCI IRC/IBC		
Slope	NONE	

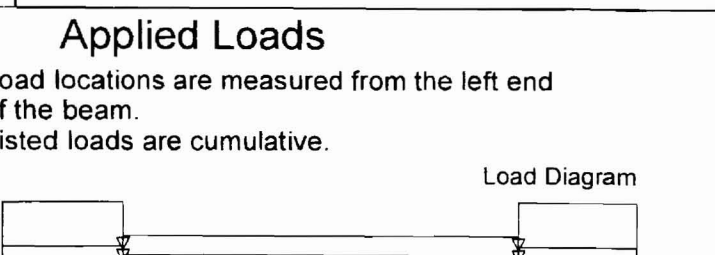
Reactions

Maximum from all load cases.
Reactions lb.

Bearing	1	2
Live	1993	1993
Dead	700	700
Total	2693	2693

Engineering Notes

Girders are designed to be supported on the bottom edge only.
Multiple plies must be fastened together as per manufacturer's details.
Point loads must be supported equally by all plies.
Girder must be laterally braced along the top edge at a max. of 12 ft. o.c.



Maximum Shear and Bending Analysis

	Actual	Allowed	Ratio	Location
Shear lb.	1959	2234	0.88	Span 1 Brg 2
Bending lb.ft.	2920	5922	0.49	2-9-8 in Span 1

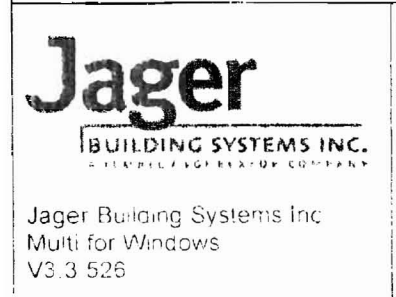
Custom Notes

Uniform Loads	Live Load PSF	Dead Load PSF		
	0.0	0.0		
Point Loads	Location	Live lb.	Dead lb.	
	1-2-0	734.0	245.0	
	4-8-0	734.0	245.0	
Partial Uniform	Start	End	Live PSF	Dead PSF
	0	1-2-0	94	33
	1-2-0	4-8-0	40	15
	4-8-0	5-10-0	94	33

Maximum Deflection Analysis

	Actual	Allow	Ratio	Location
Total (inch)	0.04=L/999	0.28	0.15	2-9-8 in Span 1
Live (inch)	0.03=L/999	0.14	0.23	2-9-8 in Span 1

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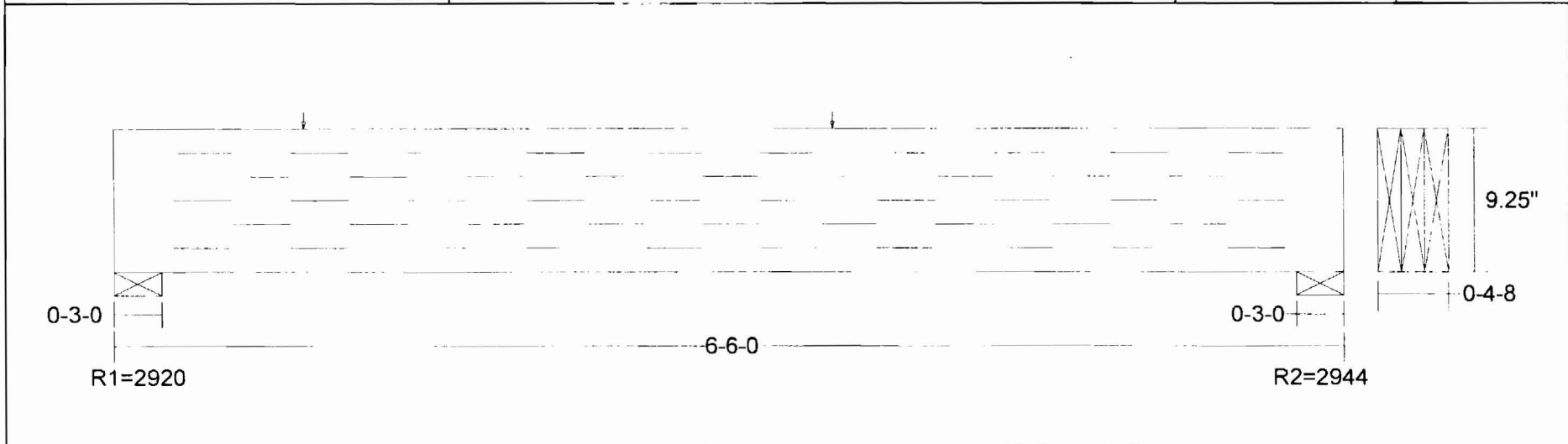
HANDLING & INSTALLATION :
1 LVL beams cannot be cut or drilled.
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LUMBER:
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4 Design assumes top edge is laterally restrained.
5 Provide lateral support at bearing points to avoid lateral displacement and rotation.
6 For flat roofs provide proper drainage to prevent ponding.

Hospitality Homes Ltd
Drawing Number
Date

#2 SPF 1.50" X 9.25" 3 Plies ASD USA	Project GRIBBIN	PORTLAND, ME	Date 11-Oct-06	Due Date 06-Oct-06	Pieces	Assembled Beams	Mark/Job
	Beam 6' PATIO DOOR-1 FLOOR ABOVE		Designed by	Verified by	3	1	1F-6 PAT K-46



Roof		
Girder 3 Plies		
Tributary Width	7-6-0	Load Sharing
		NO
Deflection		Load Duration
Total	L/240	1.15
Live	L/480	Preservative
Code		NONE
UBC/BOCA/SBCCI		Service Condition
IRC/IBC		DRY
Slope	NONE	Importance
		1.00
		Bearing Species
		SPF

Reactions

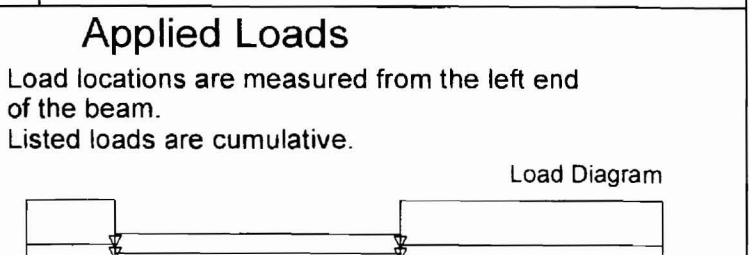
Maximum from all load cases.

Reactions lb.

Bearing	1	2
Live	2161	2179
Dead	759	765
Total	2920	2944

Engineering Notes

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Point loads must be supported equally by all plies.
Girder must be laterally braced along the top edge at a max. of 12 ft. o.c.



Maximum Shear and Bending Analysis

	Actual	Allowed	Ratio	Location
Shear lb.	2210	2234	0.99	Span 1 Brg 2
Bending lb.ft.	4427	5922	0.75	3-8-0 in Span 1

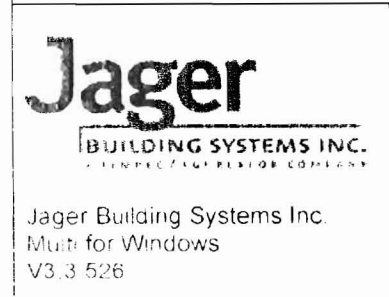
Custom Notes

Uniform Loads	Live Load PSF	Dead Load PSF		
	0.0	0.0		
Point Loads	Location	Live lb.	Dead lb.	
	1-0-0	532.0	177.0	
	3-9-8	532.0	177.0	
Partial Uniform	Start	End	Live PSF	Dead PSF
	0	1-0-0	94	33
	3-9-8	6-6-0	94	33
	1-0-0	3-9-8	40	15

Maximum Deflection Analysis

	Actual	Allow	Ratio	Location
Total (inch)	0.07=L/999	0.31	0.24	3-2-4 in Span 1
Live (inch)	0.05=L/999	0.16	0.35	3-2-4 in Span 1

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5 Provide lateral support at bearing points to avoid lateral displacement and rotation.
6 For flat roofs provide proper drainage to prevent ponding

Hospitality Homes Ltd

Drawing Number

Date

APPENDIX 1

PLEASE NOTE THAT THE ENCLOSED PLAN IS DESIGNED TO MEET OR EXCEED THE FOLLOWING DESIGN CODES:

- 2003 INTERNATIONAL RESIDENTIAL CODE WITH AMENDMENTS.
- 2001 NFPA 31, STD. FOR THE INSTALLATION OF OIL BURNING EQUIPMENT.
- 2002 NFPA 54, NATIONAL FUEL GAS CODE.
- 2001 NFPA 58, LIQUIFIED PETROLEUM GAS CODE.
- 2002 NFPA 70, NATIONAL ELECTRICAL CODE.
- 2003 NFPA 211, STD. FOR CHIMNEYS, FIREPLACES, VENTS AND SOLID FUEL BURNING APPLIANCES.
- 2003 INTERNATIONAL PLUMBING CODE.
- 2003 STATE OF MAINE OIL AND SOLID FUEL BOARD LAW & RULES

PLEASE NOTE THAT THE ENCLOSED PLAN IS DESIGNED USING THE FOLLOWING LOAD CONSIDERATIONS:

GROUND SNOW LOAD:	50.00 PSF
MAXIMUM ROOF LOAD:	40 PSF
MAXIMUM UNBALANCED LOAD:	40.00 PSF
NON-SLEEPING AREA FLOOR LOAD:	40 PSF
SLEEPING AREA FLOOR LOAD:	30 PSF
WIND LOAD:	20 PSF

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THIS HOME IS CLASSIFIED AS A SINGLE FAMILY, AND THE CONSTRUCTION TYPE IS VB (WOOD FRAME UNPROTECTED)

ROOM NAME	TOTAL AREA (sq. ft.)	WINDOW AREA (sq. ft.)	TOTAL LIGHT (8% OF ROOM AREA)	VENTILATION REQ. (4% OF ROOM AREA)	TOTAL VENTILATION
HALF BATH	55.25	8.33	4.4	2.2	4.165
KITCHEN	214.5	8.33	17.2	8.6	4.165
DINING ROOM	169	20.75	13.5	6.8	10.375
DEN	169	55.98	13.5	6.8	27.99
FOYER	130	16.33	10.4	5.2	8.165
LIVING ROOM	201.5	55.98	16.1	8.1	27.99
BEDROOM #4	126	18.66	10.1	5.0	9.33
BEDROOM #2	126	18.66	10.1	5.0	9.33
ENSUITE	130	8.33	10.4	5.2	4.165
BEDROOM #3	169	37.33	13.5	6.8	18.665
MAIN BATH	64	0	5.1	2.6	SEE VENMAR
WALK-IN CLOSET	60	18.66	4.8	2.4	9.33
MASTER BEDROOM	195	37.33	15.6	7.8	18.665

APPENDIX 1(CONTINUED)

THE GIRDER IS DESIGNED TO CARRY ROOF TRUSSES 24"O.C., WITH THE TRUSSES BEARING ON THE HANGERS ON THE BOTTOM CHORD OF THE GIRDER. THE TRUSSES ARE TO BE TOE NAILED THERE, THE SAME AS AN EXTERIOR WALL. THE GIRDER TRUSSES TO BE FASTENED TOGETHER WITH 10d COMMON NAILS AS PER NAILING PATTERN.

ROLL VENT IS UL APPROVED, ALSO BOCA #98-41, DADE COUNTY #93-0728.5, CCMC, CABO, ICBO, SBCCI, FHA, US DEPARTMENT OF HOUSING & URBAN DEVELOPMENT

ALL DRAINS (EXCEPT SHOWER DRAINS) ARE 1 1/2" THROUGHOUT UNLESS CONNECTED TO 3 OR MORE FIXTURES, IN WHICH CASE THE DRAIN SIZE IS INCREASED TO 2". SHOWER DRAIN AND WASHER DRAIN SIZE IS 2"

TRAP SIZE IS TO MATCH DRAIN SIZE

ABS DRAINS ARE SUPPORTED BY 3/4" PERFORATED METAL STRAP HANGERS, SPACED AT 48" FOR ABS DRAINS.

ALL COPPER WATER LINES ARE SUPPORTED WITH PLUMBING CLAMPS AT THE END OF ALL BRANCHES, CHANGES IN DIRECTION, AND CHANGES IN ELEVATION. THEY ARE SECURED DIRECTLY TO JOISTS AND SPACED AT 72"

SITE FASTENING INFORMATION FOR A TWO STORY STYLE HOME:

1. 2ND FLOOR MODULES CONNECTED TO FIRST FLOOR MODULES BY TOE NAILING INTO 2"X6" SPACER PLATE AND SHEATHING ON SITE, INSTALLED FROM TOP PLATE TO BOTTOM PLATE OF WALL ABOVE.

THE TRUSS SUPPLIER INSTALLS THE HINGE PLATES.

THE ON-SITE CONTRACTOR WILL FASTEN PERIMETER TO SILL PLATE AND SILL PLATE TO THE FOUNDATION WALL.

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HEAT RECOVERY VENTILATOR

VENMAR CONSTRUCTO 2.0

Part # 45110 Canada

Part # 1601612 U.S.

Part # 45119 International

128 to 208 CFM (0.3 in. w.g.)

117 to 189 CFM (0.4 in. w.g.)



VB0010

CONSTRUCTO SERIES: PERFECT FOR NEW RESIDENTIAL CONSTRUCTION

Affordability is a priority for the homebuilder who wants to offer a healthy environment. The Constructo Series is an entry level product that offers all the basic features for the new construction market, such as a small sized cabinet, integrated balancing damper and a no negative pressure defrost that ensures quick installation and trouble free operation. Best price for builders & contractors requiring simple, affordable and reliable products.

- **Warranty:** 2 years on all unit parts and a lifetime warranty on the heat recovery core.
- **A minimum of vital parts per unit:** Motor, damper motor and electronic circuit board.
- **Microprocessors:** A proven technology known for its reliability which allows elimination of numerous mechanical parts which are most likely to break down.

Quiet ventilation is a priority for homeowners and builders. The Constructo HRV Series produces 10 db less than any unit in its category, and therefore provides the quietest operation.

- **The SilentSure™ operation system,** a unique design which allows the motor, located at the exhaust ports, to blow air into the house through an integrated silencer in the unit.
- **The motor attachment,** located in the center of the unit prevents any vibration.

Available at :

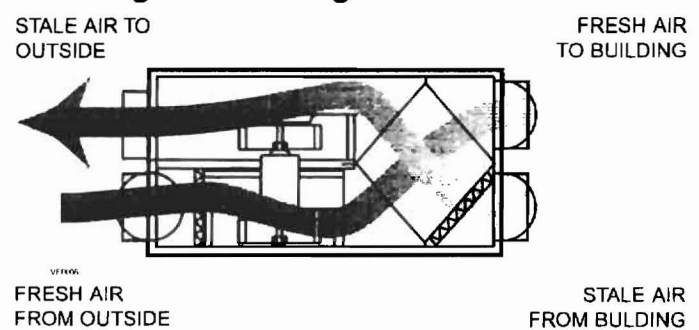
Controls

- Built-in electronic circuit board ready to receive one of the following main controls:
 - Humidity Control #11297
 - Constructo #40350
- One or two of the following optional controls can be added:
 - 20-min. lighted push button #12030
 - 60-min. mechanical timer #00910

Options

- Integrated furnace interlock relay
- Complete line of registers and diffusers
- Electric duct heater
- Installation parts available from your wholesaler

Airflow During Air Exchange



Homeshield™ Defrosting System

The Constructo uses a unique defrosting method. No negative pressure is created by air exhausted to the outside, as the air is recirculated into the house, thus avoiding any backdraft from the chimney. Moreover, this defrosting method by air circulation ensures that no shortage of air is created for combustion units.

OUTSIDE TEMPERATURE °C	DEFROST CYCLE defrosting min. / operating min.			
		Warmer than -5	Warmer than (23)	No Defrost
-5 TO -27	(23 TO 5)	6/32		
-27 & LESS	(-19 & LESS)	6/20		

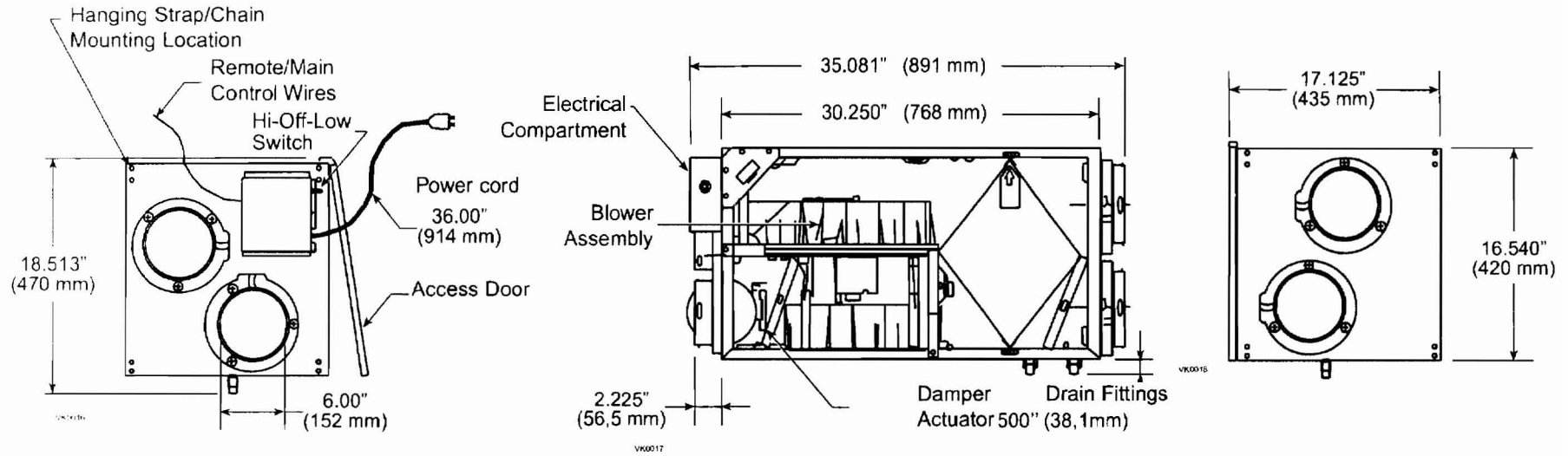
Heat Recovery Core

Dimensions: 12" x 14" x 15-1/2" (30,5 cm x 35,5 x 39,4 cm)
 Exchange surface: 102 ft² (9,5 m²)
 Weight: 6.2 lbs (2,8 kg)
 Material: Polypropylene (coroplast)
 Type: Crossflow core
 Warranty: Lifetime

Requirements and Standards

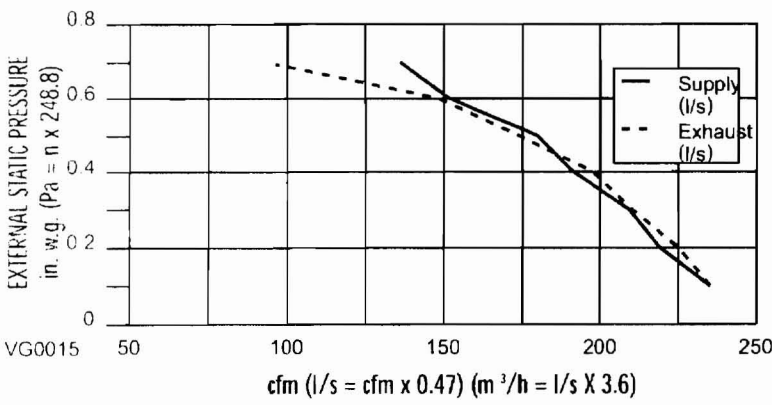
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators.
- Complies with the CSA C22.2 #113 Standard applicable to ventilators.
- Complies with the CSA C444 requirements regulating the installation of Energy Recovery Ventilators.
- HVI certified.
- Technical data was obtained from published results of tests relating to CSA C439 Standards.

Dimensions and Service Clearances: Venmar HRV Constructo 2.0



Ventilation Performance

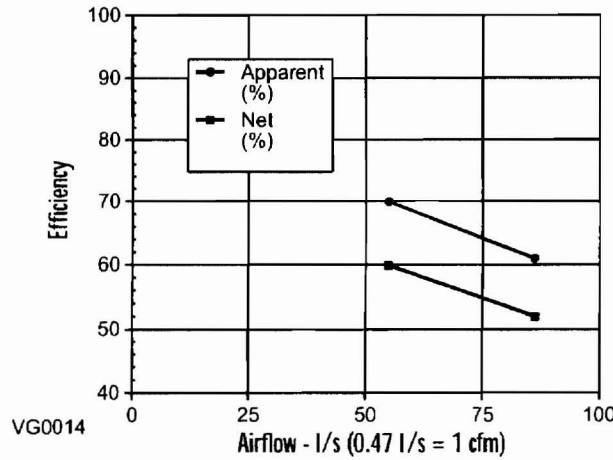
EXT STATIC PRESSURE	NET SUPPLY AIR FLOW	GROSS AIR FLOW								
		SUPPLY			EXHAUST					
Pa	in.w.g.	l/s	cfm	m ³ /h	l/s	cfm	m ³ /h	l/s	cfm	m ³ /h
25	.1	110	234	396	112	237	403	112	237	403
50	.2	103	219	374	105	223	378	106	225	382
75	.3	98	208	353	100	211	360	99	210	356
100	.4	89	189	320	91	192	328	91	193	328
125	.5	84	177	302	85	180	306	82	174	295
150	.6	71	151	256	72	153	259	70	149	256
175	.7	64	136	231	65	138	234	44	94	160



HVI
CERTIFIED
Data as per ORTECH

Energy Performance

SUPPLY TEMPERATURE		NET AIR FLOW	POWER CONSUMED	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY/ MOISTURE TRANSFER		
°C	°F						l/s	cfm
HEATING								
0	+32	56	119	202	124	60	70	-0.01
0	+32	86	182	310	197	53	62	-0.01
0	+32	---	---	---	---	---	---	---
-25	-13	37	78	133	114	62	80	0.08
-25	-13	---	---	---	---	---	---	---
COOLING								
+35	+95	---	---	---	---	TOTAL RECOVERY EFFICIENCY		
+35	+95	---	---	---	---	Not tested		



HVI
CERTIFIED
Data as per ORTECH

Specifications and Ratings

- Model: Venmar Constructo 2.0
- Part Number #45110 Canada, #1601612 U.S., #45119 Int.
- Total Assembled Weight: 67 lbs (30,5 Kg)
- Supply Air Duct Connections: 6" (15,24 cm) diameter
- Exhaust Air Duct Connections: 6" (15,24 cm) diameter
- Drains: 1/2" (1,2 cm) fittings
- Filters: 15 ppi washable reticulated foam -15.375" x 7.125" x 0.75" (39 x 18 x 1,9 cm)
- Cabinet: 20 ga. pre-painted steel
- Insulation: 1" (2,54 cm) aluminium foil faced fiberglass, 0.825" (2,10 cm) expanded polystyrene

- Mounting: Chain and hardware provided to suspend unit
- Supply & Exhaust Blower Motor: 1 motor
 - Protection type: Thermally protected
 - Insulation class: B
 - V (motor marking): 120 V ac, 60 Hz, 1.7 A, 1040/1300/1630 RPM
- Fan Speed Control: -Low, increased low & high speed.
 - Two speeds available to user.
 - Low or increased low speed is selected at the time of installation.

- Heat Recovery Core:
 - Heat Exchange Surface Area: 102 ft² (9,5 m²)
 - Type/Material: Crossflow / Polypropylene
- Unit Electrical Characteristics:

	Volts	Freq	Amperes	Watts	IP
Canada/US	120	60 Hz	2.1	240	-
Int. units	100	50/60 Hz	1.9/2.0	158/195	20
"	120	50/60 Hz	1.7/1.7	162/197	20
"	230-240	50/60 Hz	1.0/1.0	188/213	20

NOTE: All specifications are subjected to change without notice.

Submitted by:		Date:	Project:
Qty:	Model #:	Remarks:	Location:
			Architect:
			Engineer:
			Contractor:



Residential Products Group, 550 Lemire Blvd., Drummondville, QC, Canada J2C 7W9 - Tel.: 1-800-567-3855 Fax: 1-800-567-1715



www.venmar-ventilation.com

04/03

PRODUCT SHEET #90283



110 FIRST PLYMOUTH ROAD
WOODSTOCK, NB CANADA
1-888-544-3100

**HARTFORD
ENTERPRISES**

PORTLAND,
MAINE

GRIBBIN

ALL PRODUCTS DESCRIBED HEREIN ARE BELIEVED TO BE CORRECT AT THE TIME OF PUBLICATION. DURING THE PRODUCT YEAR, IT MAY BECOME NECESSARY FOR HOSPITALITY HOMES LTD TO PRODUCE HOMES DIFFERENT COMPONENTS THAN INITIALLY SCHEDULED. HOSPITALITY HOMES LTD RESERVES THE RIGHT TO MAKE CHANGES IN PRICES, COLOR, MATERIALS, COMPONENTS & SPECS. AND TO DISCONTINUE MODELS AT ANY TIME WITHOUT NOTICE.

PROJECT NO: **K-46**

DATE: 10/17/2006

DRAWN BY: IRIS STAIRS

CHK'D BY: AH

PAGE: 5

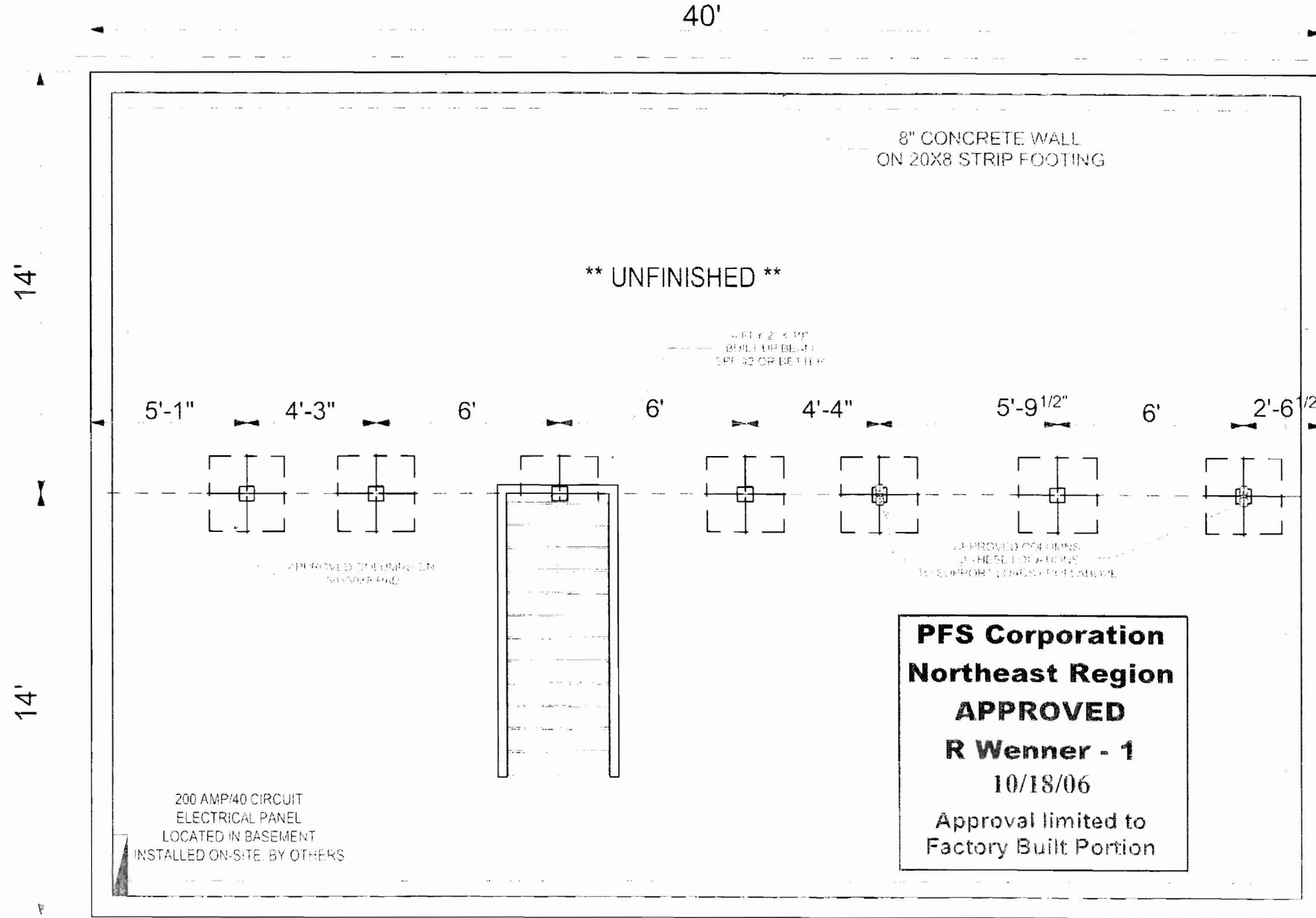
NOTES:
ELECTRICAL PANEL TO BE INSTALLED IN BASEMENT
ALL RECEPTALS IN BASEMENT TO BE GFI'S
CUSTOMER TO SUPPLY AND INSTALL DOMESTIC HOT WATER BASEBORD HEAT WHEN APPLICABLE. LOCATION OF SAME TO BE DETERMINED ON SITE.
FOUNDATION MUST BE INSTALLED AND PROTECTED FROM DAMAGE PER IRC STANDARDS

REFER TO CROSS SECTION FOR ADDITIONAL INFORMATION REGARDING FOUNDATION
****ALL CHASES SHALL BE FIRESTOPPED AT FLOOR AND CEILING**

FOR THE STATE OF MAINE, FOR BASEMENT HEIGHTS 7'-3" TO 8'-0" BASEMENT STAIRS ARE A COMPONENT OF THIS DESIGN WITH A MAXIMUM RISER HEIGHT OF 8 1/4", A MINIMUM TREAD DEPTH OF 9" AND A 1" NOSING WILL BE PROVIDED ON ALL TREADS WITH A TREAD WIDTH LESS THAN 10"

THE FOLLOWING IS TO BE DONE BY OTHERS UNLESS OTHERWISE SPECIFIED IN THE CONTRACT:

- CONCRETE WALLS AND FLOOR SLAB
- INSULATION FOUNDATION TO MAINE STATE REQUIREMENTS
- STEPS LEADING TO AND FROM BASEMENT
- ANY AND ALL WINDOWS AND DOORS IN BASEMENT
- ANY AND ALL ELECTRICAL WORK BEYOND ELECTRICAL PANEL



**PFS Corporation
Northeast Region
APPROVED
R Wenner - 1
10/18/06
Approval limited to
Factory Built Portion**

NOTE:
FOUNDATION IS THE RESPONSIBILITY OF THE OWNER UNLESS OTHERWISE SPECIFIED WITHIN THE CONTRACT. FOUNDATION MUST MEET ALL BUILDING CODES. IF CONCRETE FOUNDATION IS TO BE INSTALLED, CONTRACTOR MUST USE COUNTERSUNK ANCHOR BOLTS SUCH THAT THEY DO NOT INTERFERE WITH THE POSITIONING OF THE HOME ON THE FOUNDATION BY MEANS OF SLIDING HOME ON TOP OF FOUNDATION WALL

NOTE:
THE LOCATION OF ANY DOORS & WINDOWS IS THE RESPONSIBILITY OF THE OWNER.

2003 INTERNATIONAL RESIDENTIAL CODE WITH AMENDMENTS.
2001 NFPA 31, STD. FOR THE INSTALLATION OF OIL BURNING EQUIPMENT.
2002 NFPA 54, NATIONAL FUEL GAS CODE.
2001 NFPA 58, LIQUIFIED PETROLEUM GAS CODE.
2002 NFPA 70, NATIONAL ELECTRICAL CODE.
2003 NFPA 211, STD. FOR CHIMNEYS, FIREPLACES, VENTS AND SOLID FUEL BURNING APPLIANCES.
2003 INTERNATIONAL PLUMBING CODE.
2003 STATE OF MAINE OIL AND SOLID FUEL BOARD LAW & RULES
MAINE ENERGY CODE

GRIBBIN

(PORTLAND, MAINE)
K-46

PFS CORPORATION
Approval Limited to Factory Built Portion Only

State:	Maine
Signature:	<i>Rick Wenner</i>
Title:	Staff Engineer
Date:	10/18/06



Rick Wenner
2006.10.18
09:50:19
-04'00'



110 FIRST PLYMOUTH ROAD
WOODSTOCK, NB CANADA
1-888-544-3100

MODEL NAME: GRIBBIN
STYLE: COLONIAL
SQUARE FOOTAGE: 2240 sq. ft.
DRAWN BY: IRIS STAIRS

MODEL #: MH-352-2840ME
SERIAL #: 03429-09-06

MODEL NAME: GRIBBIN
MODEL #: MH-352-2840ME
SERIAL #: 03429-09-06

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110 FIRST PLYMOUTH ROAD
WOODSTOCK, NB CANADA
1-888-544-3100

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PFS Corporation
Northeast Region
APPROVED
R Wenner - 1
10/18/06
Approval limited to
Factory Built Portion



110 FIRST PLYMOUTH ROAD
WOODSTOCK, NB CANADA
1-888-544-3100

**HARTFORD
ENTERPRISES**

PORTLAND,
MAINE

GRIBBIN

**PFS Corporation
Northeast Region
APPROVED
R Wenner - 1
10/18/06
Approval limited to
Factory Built Portion**

ALL PRODUCTS DESCRIBED HEREIN ARE BELIEVED TO BE CORRECT AT THE TIME OF PUBLICATION. DURING THE PRODUCT YEAR, IT MAY BECOME NECESSARY FOR HOSPITALITY HOMES LTD TO PRODUCE HOMES DIFFERENT COMPONENTS THAN INITIALLY SCHEDULED. HOSPITALITY HOMES LTD RESERVES THE RIGHT TO MAKE CHANGES IN PRICES, COLOR, MATERIALS, COMPONENTS & SPECS. AND TO DISCONTINUE MODELS AT ANY TIME WITHOUT NOTICE.

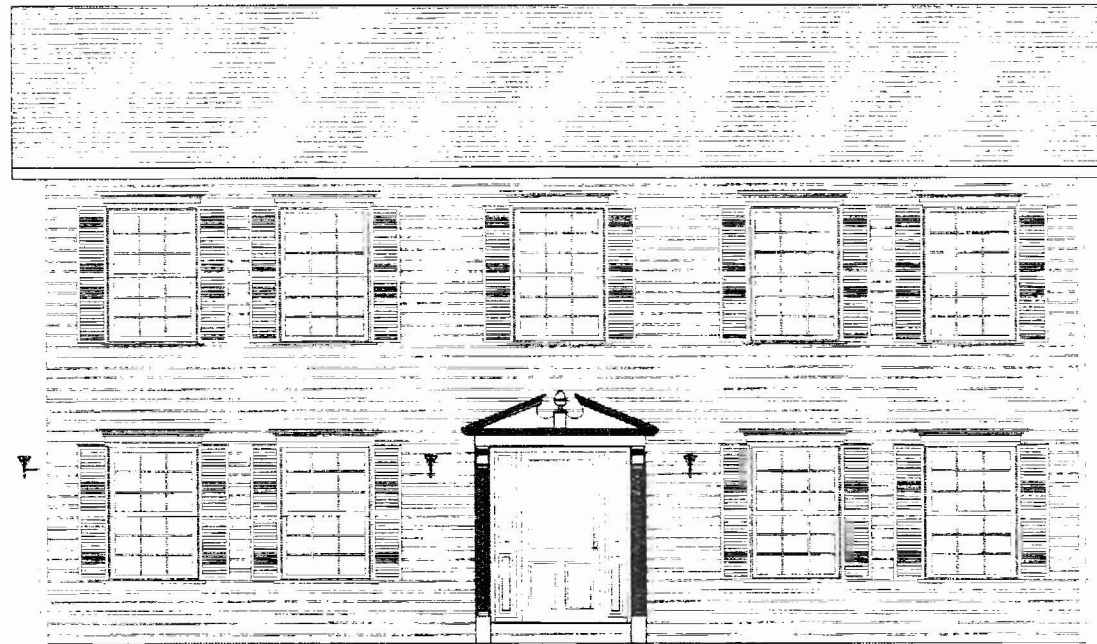
PROJECT NO: **K-46**

DATE : 10/17/2006

DRAWN BY: IRIS STAIRS

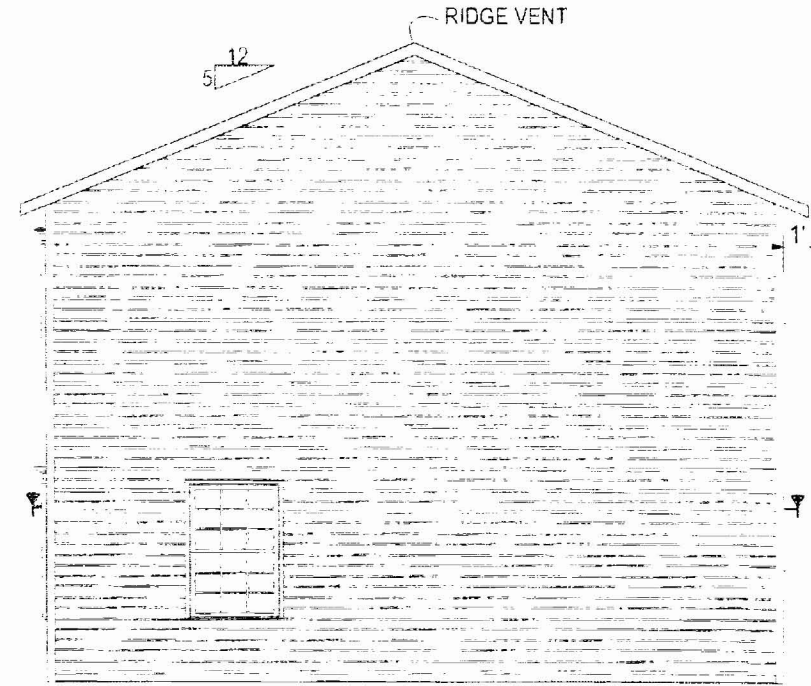
CHK'D BY: AH

PAGE: 4



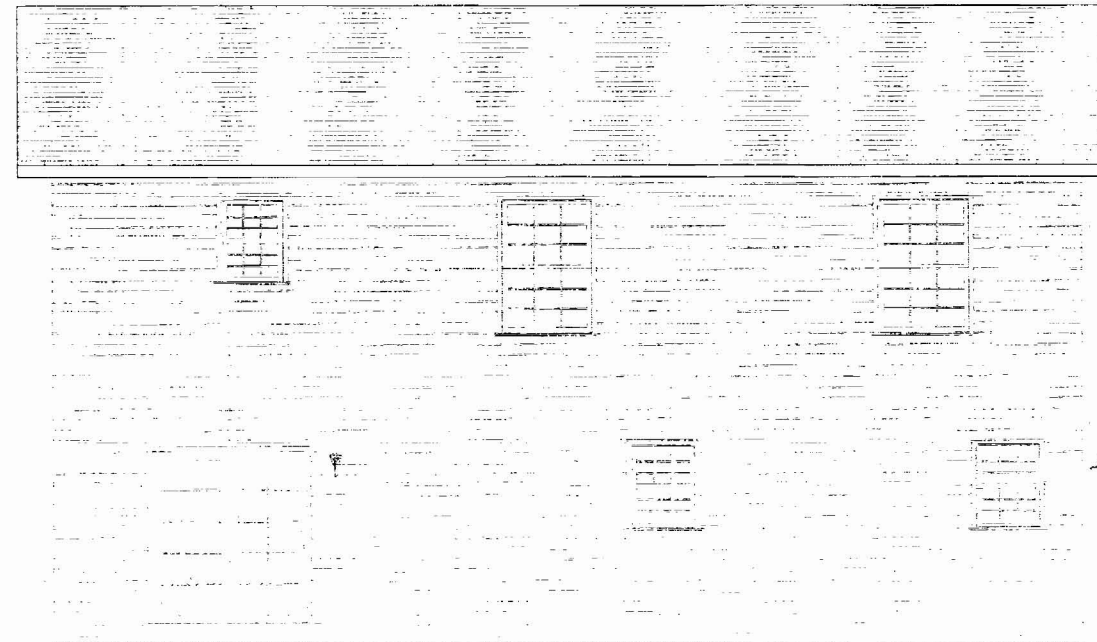
FINISHED CEILING HEIGHT - FIRST FLOOR - 8'-0"
FINISHED CEILING HEIGHT - SECOND FLOOR - 8'-0"
SECOND FLOOR WINDOWS HAVE BEEN LOWERED TO 6'-8"

FRONT ELEVATION

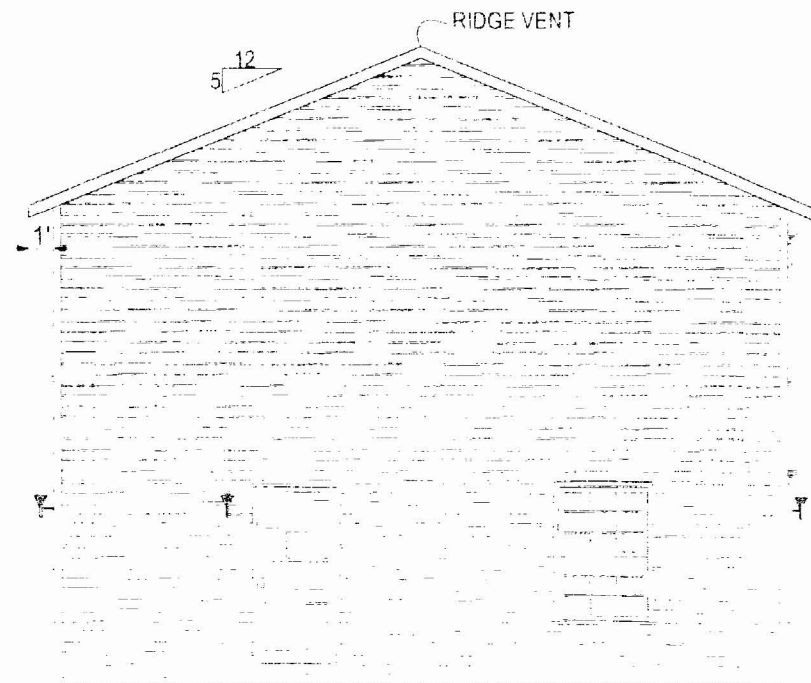


RIGHT ELEVATION

SIDING ON ENDS OF HOME TO BE
COMPLETED ON SITE BY OTHERS



REAR ELEVATION



LEFT ELEVATION



Date Received at PFS

October 11, 2006

ADDITIONAL OR MODIFIED ACCEPTANCE (MODULARS/PANELIZED)

This form is to be used only when the manufacturer is seeking acceptance of an additional model, modified model or model name change which uses a previously accepted building system.

Current PFS Building System Acceptance # **1901**

Model Name/ No. **GRIBBIN 28X36 4-BOX COLONIAL K-46**

Manufacturer's Name **HOSPITALITY HOMES**

Plant(s) at which model will be produced **WOODSTOCK, NEW BRUNSWICK, CANADA**

Check One: NEW MODEL MODIFICATION*

TECHNICAL DATA (Submit 2 copies of this form and all data)

	Conforms	
	Yes	No
Floor Plan Showing:		
Building Size (LXW Dimensions)	✓	
Room Sizes, Light & Ventilation Schedule	✓	
Exit Requirements	✓	
Electrical Outlet Spacing & Smoke Detector	✓	
Location of Labels & Data Plates	✓	
Use Group, Type Const., Total Sq.Ft. Area	✓	
Plumbing System Design or Reference No. (PG. 13 & 14)	✓	
Heat Loss Calculations or Reference No. (PG. 17 - 22)	✓	
Furnace Size/Model No. (ON-SITE INSTALLATION)		
Thermal Performance Calculations or Reference No. (N/A)	✓	
Electrical Load Calculations or Reference No. (PG. 16)	✓	
Service Size and Location (200 AMP IN BASEMENT)	✓	
Applicable Building Codes	✓	
Submit model to the following states: MAINE		
*Description of Modification		

Submitted by: **IRIS STAIRS**

Date: **10/17/2006**

APPROVED
By Rick Wenner at 9:50 am, Oct 18, 2006

For PFS Use

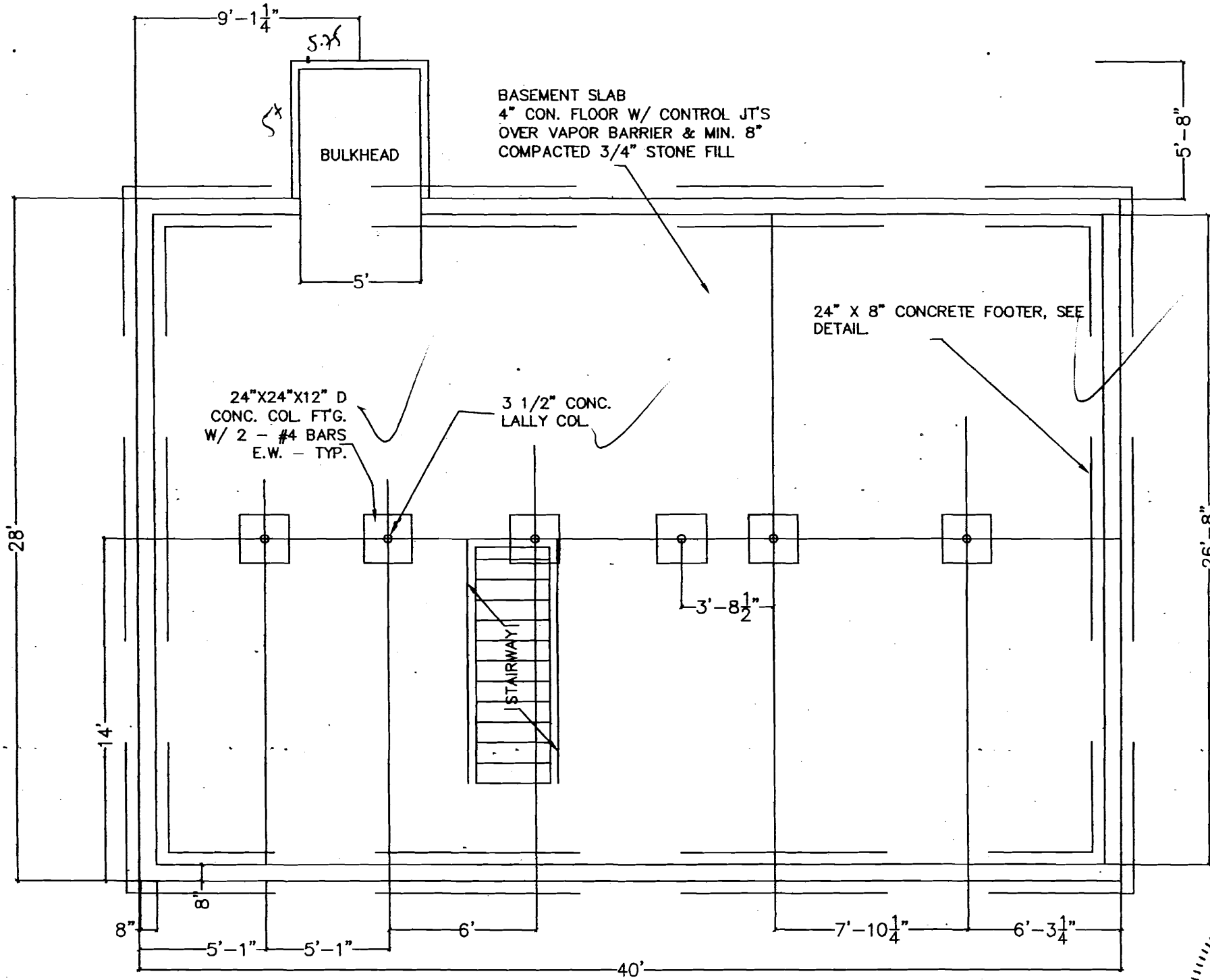
Reviewed and Approved by
Remarks

** (1) copy sent to IBC within 15 days of approval.

MODEL WAS DEVIATED

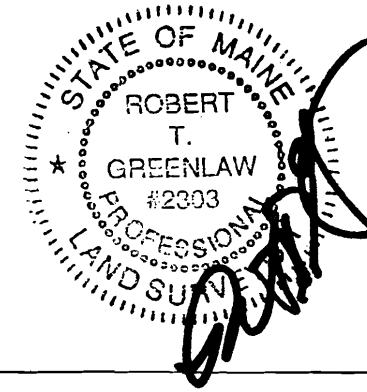
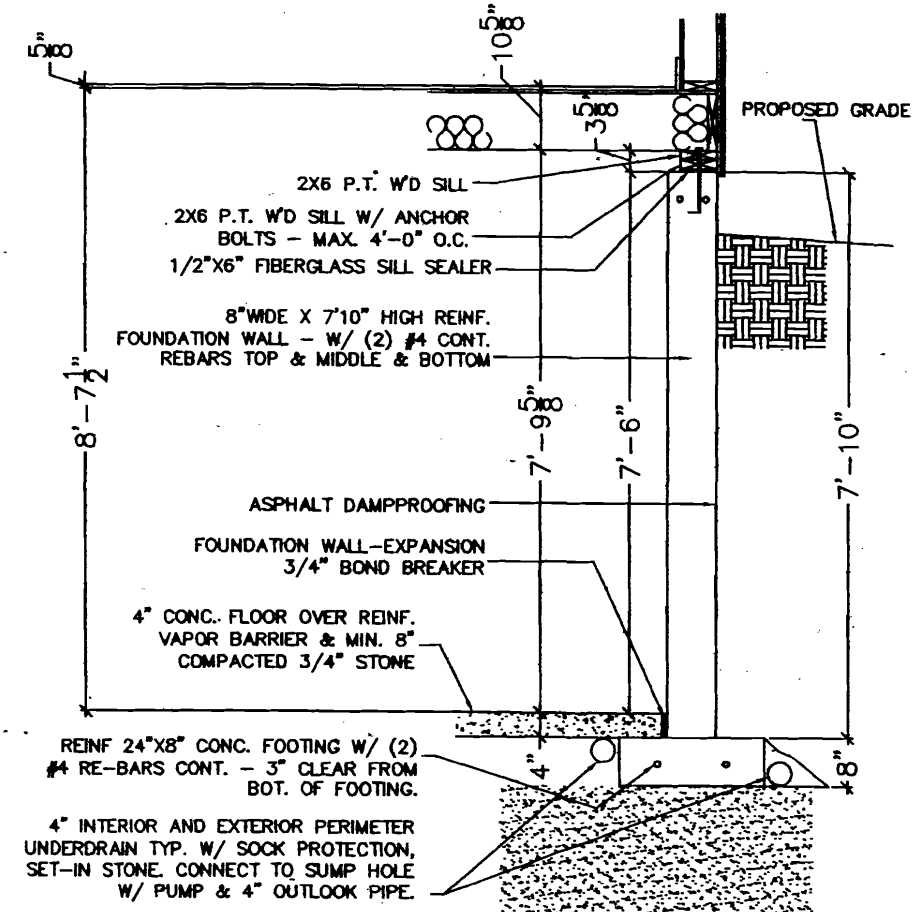
THIS FORM SHALL BE FILLED OUT COMPLETELY WITH EACH MODEL ACCEPTANCE OR MODIFICATION PRIOR TO SUBMITTAL TO PFS.

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WELLINGTON ROAD

FOUNDATION PLAN
SCALE: 3/16" = 1'-0"



FOUNDATION DETAIL
SCALE - 3/8" = 1'-0"

FOUNDATION DETAIL
50-52 WELLINGTON ROAD, PORTLAND, MAINE
FOR: CHRISTOPHER GRIBBIN

DRAWN BY: RTG	CHECKED BY: PJM
SCALE: AS NOTED	DATE OF PLAN: 11/01/2006
JOB NUMBER: 2006095	SHEET: 1 OF 1

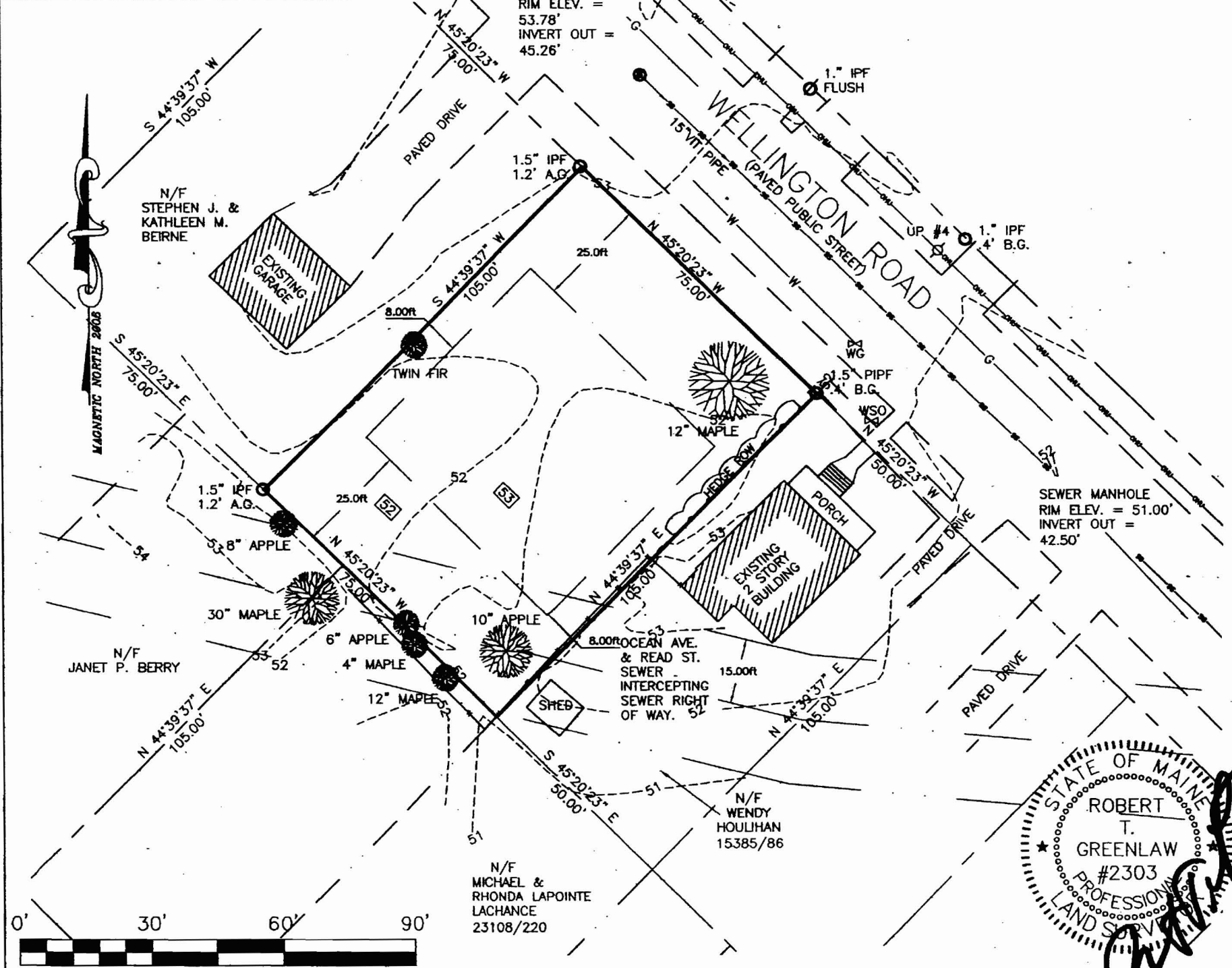
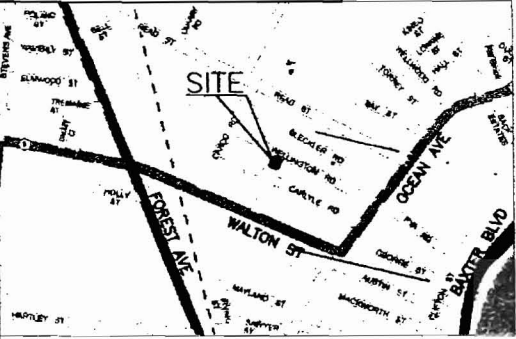
PREPARED BY:
BACK BAY BOUNDARY, INC.
PROFESSIONAL LAND SURVEYING
643 FOREST AVENUE
PORTLAND, MAINE 04101
207-774-2855 FAX 207-347-4346



DRAWER: 2006 NO: 095

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SITE LOCATION MAP:



GENERAL NOTES:

1. RECORD OWNER OF PARCEL: <owner> BOOK XX PAGE XX AS RECORDED IN THE <county> COUNTY REGISTRY OF DEEDS (C.C.R.D.).
2. BEARINGS ARE BASED UPON A MAGNETIC OBSERVATION TAKEN AT THE TIME OF THIS SURVEY, UTILIZING THE FOLLOWING EQUIPMENT:
LIETZ SOKKISHA SET 3 TOTAL STATION, LIETZ SDR 33 DATA COLLECTOR, HAND-HELD MAGNETIC COMPASS.
3. AREA OF SUBJECT PARCEL: 7,875.0 SQ. FT., 0.18 ACRES
4. REFERENCE IS MADE TO THE FOLLOWING PLANS:
a.) PLAN OF WOODFORDS PARK, MADE BY PERCY H. RICHARDSON, C.E., DATED OCTOBER, 1919, PORTLAND, MAINE, RECORDED IN THE C.C.R.D. PLAN BOOK 14 PAGE 32.
b.) LAND & TOPO SURVEY PLAN FOR MR.&MRS. BRETT NEIDIG, 50-52 WELLINGTON ROAD, PORTLAND, MAINE, DATED 1-6-86, BY WELLS ENGINEERING, INC., C.E., PROVIDED BY CLIENT.
c.) WELLINGTON ROAD SEWER ASSESSMENT PLAN, SHEET 1 OF 2, CITY OF PORTLAND, MAINE, DEPARTMENT OF PUBLIC WORKS, PLAN FILE 468/?, DATED 2/15/33.
5. THERE WERE NO APPARENT EASEMENTS OR RESTRICTIONS BURDENING OR BENEFITING SUBJECT PROPERTY AT THE TIME OF OF THIS SURVEY.
6. ZONING: R-3 RESIDENTIAL
SETBACKS: FRONT - 25 FT; REAR - 25 FT;
SIDE - 1-1/2 STORY: 8 FT; 2 STORIES: 14 FT
ON SIDE STREET: 20 FT
MINIMUM LOT SIZE: 6,500 SQ FT
MINIMUM LOT FRONTAGE: 50 FT
MAXIMUM BUILDING HEIGHT: 35 FT
MAXIMUM LOT COVERAGE: 25%

LEGEND

- | | | | |
|----------|---------------------------------------|----------|----------------------------------|
| CRF ⊙ | Capped 5/8" Rebar Found | ⊙ | Sewer Manhole |
| IPF ⊙ | Iron Pipe Found | ⊙ | Drain Manhole |
| (50.00') | Distance from reference plan or deed. | □ | Catch Basin |
| N/F | Now Or Formerly | 12345/99 | Deed Book/Page of Local Registry |
| — Z — | Indicates Ownership in Common | ① | Lot Number |
| ⊙ | Utility Pole | — | Edge of Traveled Way |
| — E — | Overhead Utility | — | Setback Line |
| — | Abutter Line | — 98 — | Contour Line |
| — | Property Line | — | Old Lot Line |
| — | Street Line | | |

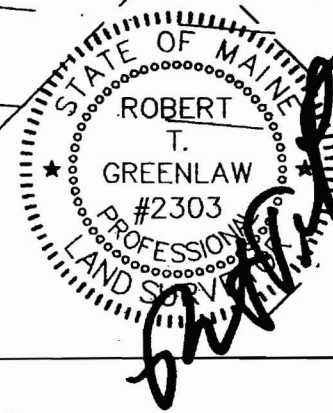
SURVEYORS STATEMENT:

I HEREBY CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS' STANDARDS OF PRACTICE AS ADOPTED APRIL 01, 2001 WITH THE FOLLOWING EXCEPTIONS:

- a) NO WRITTEN REPORT
- b) NO NEW DESCRIPTION
- c) NO NEW CORNERS SET

ROBERT T. GREENLAW P.L.S., #2303
V. PRESIDENT BACK BAY BOUNDARY, INC.

DATE: OCTOBER 20, 2006



BOUNDARY SURVEY/SITE PLAN
 50-52 WELLINGTON ROAD, PORTLAND, MAINE
 FOR: **CHRISTOPHER GRIBBIN**

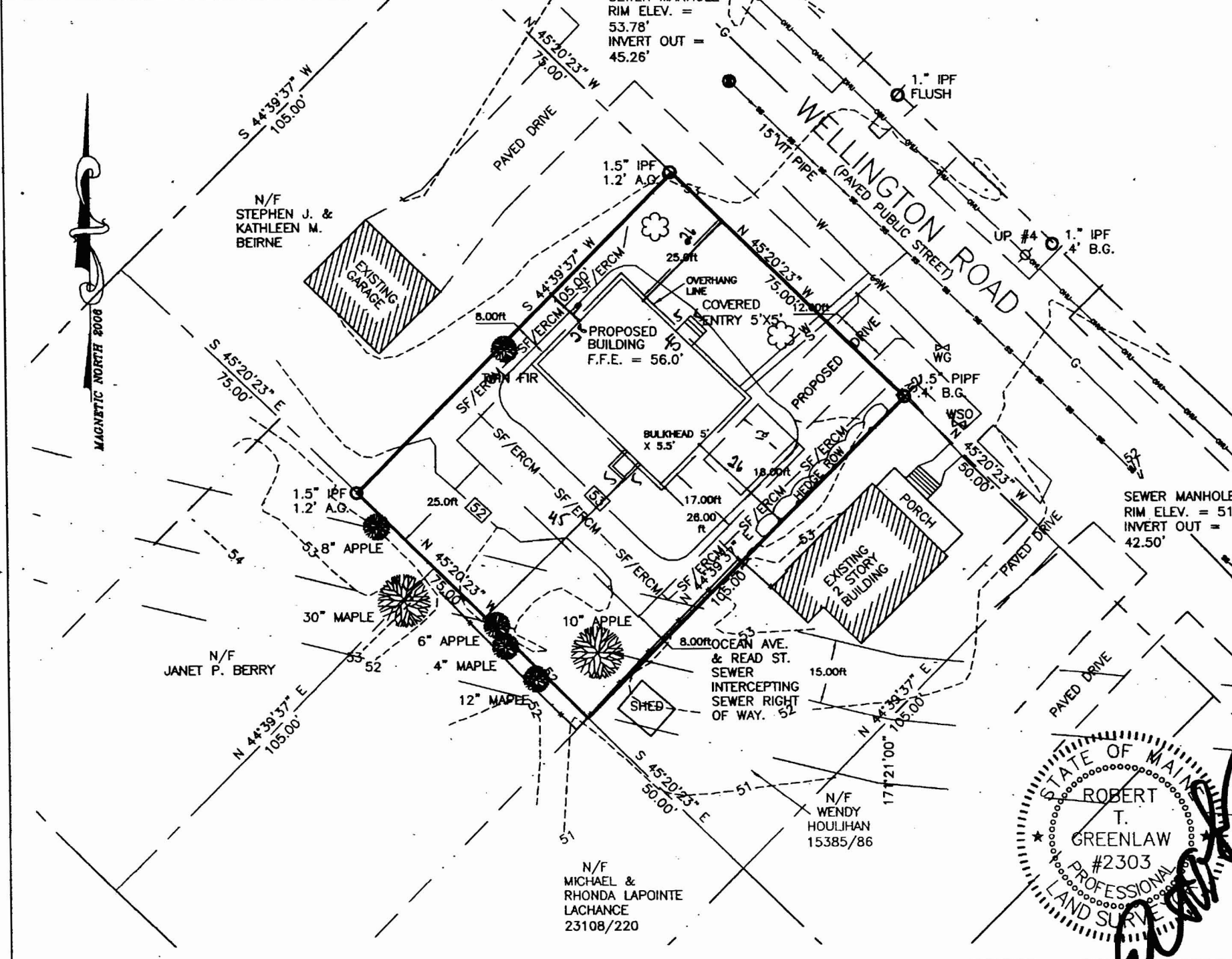
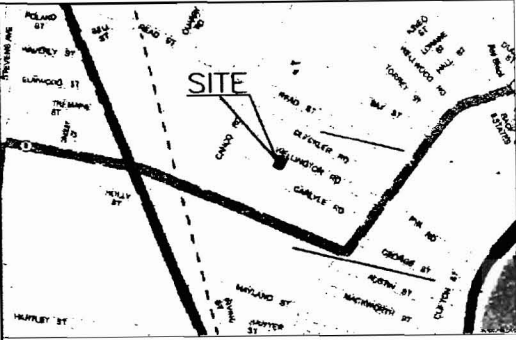
DRAWN BY: RTG / PUM
CHECKED BY: RTG
SCALE: 1"=30'
DATE OF SURVEY: 10/18/2006
JOB NUMBER: 2006095
SHEET: 10F 3

PREPARED BY:
BACK BAY BOUNDARY, INC.
 PROFESSIONAL LAND SURVEYING
 643 FOREST AVENUE
 PORTLAND, MAINE 04101
 207-774-2855 FAX 207-347-4346

DRAWER: 2006 NO: 095

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SITE LOCATION MAP:



GENERAL NOTES:

- RECORD OWNER OF PARCEL: CHRISTOPHER GRIBBIN BOOK 19973 PAGE 240 AS RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS (C.C.R.D.).
- BEARINGS ARE BASED UPON A MAGNETIC OBSERVATION TAKEN AT THE TIME OF THIS SURVEY, UTILIZING THE FOLLOWING EQUIPMENT:
LIETZ SOKKISHA SET 3 TOTAL STATION, LIETZ SDR 33 DATA COLLECTOR, HAND-HELD MAGNETIC COMPASS.
2a. ELEVATIONS ARE BASED UPON THE INVERT ELEVATIONS OF THE TWO MANHOLES SHOWN ON THE SEWER PLAN BELOW LABELED 4c. THE ELEVATIONS ARE ASSUMED TO BE BASED UPON CITY OF PORTLAND VERTICAL DATUM.
- AREA OF SUBJECT PARCEL: 7,875.0 SQ. FT., 0.18 ACRES
- REFERENCE IS MADE TO THE FOLLOWING PLANS:
a.) PLAN OF WOODFORDS PARK, PORTLAND, MAINE, BY PERCY H. RICHARDSON, C.E., DATED OCTOBER, 1919, RECORDED IN THE C.C.R.D PLAN BOOK 14 PAGE 32.
b.) LAND & TOPO SURVEY PLAN FOR MR.&MRS. BRETT NEIDIG, 50-52 WELLINGTON ROAD, PORTLAND, MAINE, DATED 1-6-86, BY WELLS ENGINEERING, INC. CE, PROVIDED BY CLIENT.
c.) WELLINGTON ROAD SEWER ASSESSMENT PLAN, CITY OF PORTLAND, MAINE, DEPARTMENT OF PUBLIC WORKS, PLAN FILE 468/16.
- THERE WERE APPARENT EASEMENTS OR RESTRICTIONS BURDENING OR BENEFITING SUBJECT PROPERTY AT THE TIME OF OF THIS SURVEY.
- PURSUANT TO SECTION 14-90.3 OF THE CITY OF PORTLAND ORDINANCE THE WIDTH OF ONE SIDE YARD SETBACK CAN BE REDUCED BY ONE (1) FOOT FOR EVERY FOOT THE OTHER SIDE YARD IS CORRESPONDINGLY INCREASED, BUT NO SIDE YARD SHALL BE LESS THAN EIGHT (8) FEET.

ZONING: R-3 RESIDENTIAL
SETBACKS: FRONT - 25 FT; REAR - 25 FT;
SIDE - 1-1/2 STORY: 8 FT; 2 STORIES: 14 FT
ON SIDE STREET: 20 FT
MINIMUM LOT SIZE: 6,500 SQ FT
MINIMUM LOT FRONTAGE: 50 FT
MAXIMUM BUILDING HEIGHT: 35 FT
MAXIMUM LOT COVERAGE: 25%

LEGEND

- CRF ⊙ Capped 5/8" Rebar Found
- IPF ⊙ Iron Pipe Found
- (50.00') Distance from reference plan or deed.
- N/F Now Or Formerly Indicates Ownership in Common
- ⊙ Utility Pole
- E - Overhead Utility
- - - Abutter Line
- - - Property Line
- - - Street Line
- SS - Existing Sewer
- S - Proposed Sewer
- ⊙ Sewer Manhole
- ⊙ Drain Manhole
- 12345/99 Deed Book/Page of Local Registry
- (1) Lot Number
- - - Edge of Traveled Way
- - - Setback Line
- - - Contour Line
- - - Proposed Contour Line
- - - Old Lot Line
- SF/ERCM Silt Fence or Erosion Control Mix
- ⊙ Proposed New Street Tree 2-1/2" Diameter

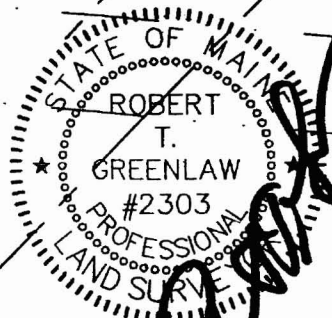
SURVEYORS STATEMENT:

I HEREBY CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS' STANDARDS OF PRACTICE AS ADOPTED APRIL 01, 2001 WITH THE FOLLOWING EXCEPTIONS:

- NO WRITTEN REPORT
- NO NEW DESCRIPTION
- NO NEW CORNERS SET

DATE: OCTOBER 25, 2006

ROBERT T. GREENLAW P.L.S., #2303
V. PRESIDENT BACK BAY BOUNDARY, INC.



PROPOSED SITE PLAN
50-52 WELLINGTON ROAD PORTLAND, MAINE
CHRISTOPHER GRIBBIN

DRAWN BY: DMD
 CHECKED BY: RTG
 SCALE: 1"=30'
 DATE OF SURVEY: 10/21/2006
 JOB NUMBER: 2006095
 SHEET: 2 OF 3

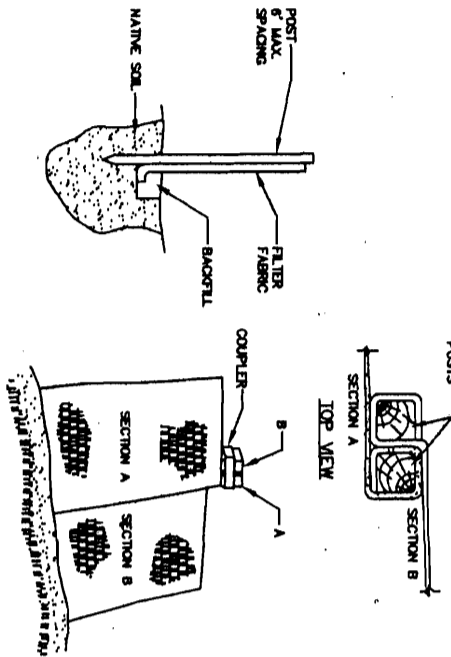
PREPARED BY:
BACK BAY BOUNDARY, INC.
 PROFESSIONAL LAND SURVEYING
 643 FOREST AVENUE
 PORTLAND, MAINE 04101
 207-774-2855 FAX 207-347-4346

DRAWER: 2006 NO: XXX

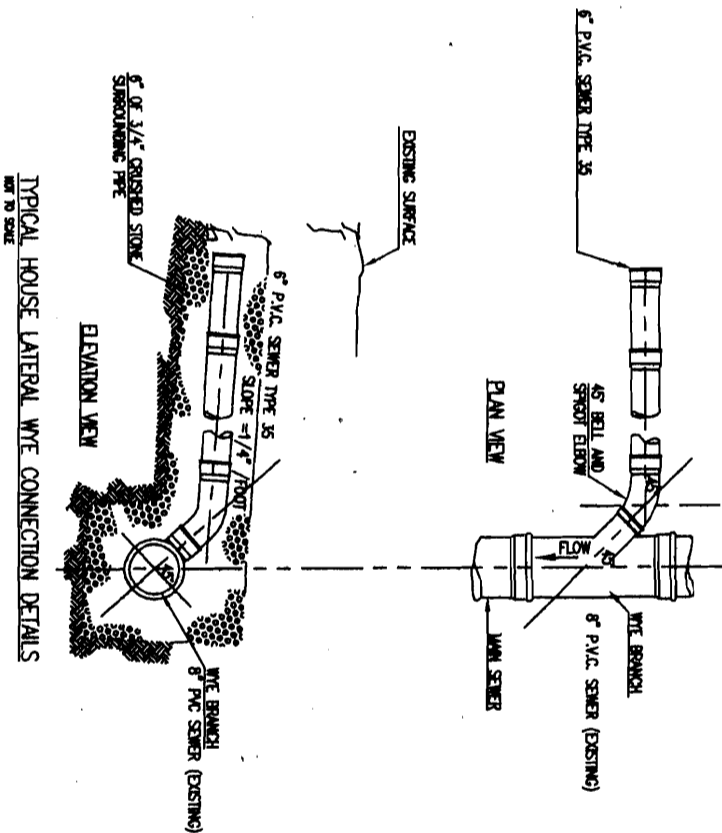
- INSTALLATION:**
1. EXCAVATE A 6" x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
 2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
 3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM, DOWN SECTION AS SHOWN ABOVE.
 4. LAY THE TEE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TEE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PLUG AND TAMPING FILL AT THE BASE, BUT MUST BE APPROVED BY AN INTERSECTION DETAIL.
 5. BARRIER SHALL BE 180"± SET TWICE OR APPROVED EQUAL.

FILTER BARRIER

NOT TO SCALE




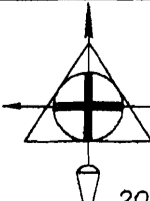
NOTE
LOCATION / WARNING TAPE SHALL BE INSTALLED OVER CENTERLINE OF PIPE AT A MINIMUM OF 24 INCHES BELOW FINISH GRADE.



TYPICAL HOUSE LATERAL WYE CONNECTION DETAILS
NOT TO SCALE

STATE OF MAINE
ROBERT T. GREENLAW
PROFESSIONAL LAND SURVEYOR
#2303



DRAWER: 2006 NO: XXX 	PREPARED BY: BACK BAY BOUNDARY, INC. PROFESSIONAL LAND SURVEYING 643 FOREST AVENUE PORTLAND, MAINE 04101 207-774-2855 FAX 207-347-4346	DRAWN BY: CHECKED BY: SCALE: 1"=xx' DATE OF SURVEY: xx/xx/2006 JOB NUMBER: 2006xxx SHEET: 3 OF 3	DETAIL SHEET 50-52 WELLINGTON ROAD PORTLAND, MAINE FOR: CHRISTOPHER GRIBBIN
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