Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 040728

PERMIT ISSUED
JUN 28 2004
CITY OF PORTLAND

This is to certify that Windemere Homes LLC/Wi mere Homes LLC

has permission to 2 Story dwelling 24x 38 sfh/ 14 Mas 24 garag

AT 0 Stepping Stone Ln Lot 5 406 F055001

provided that the person or persons, m or on a pting this permit shall comply with all of the provisions of the Statutes of M ne and of the O ances of the City of Portland regulating the construction, maintenance and u of buildings and ctures, and of the application on file in this department.

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

N ification inspe n must g and w n permis n procu b e this ding or t thereo la d or o wis sed-in. H R NOT EQUIRED.

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

Jamie Bourke 7/8/04
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

Permit No:	Issue Date:	CBL:
04-0728	JUN 28 2004 CITY OF PORTLAND	406 F055001

Location of Construction:	Owner Name:	Owner Address:	Phone:
0 Stepping Stone Ln Lot 5	Windemere Homes LLC	14 Windemere Lane	283-4233
Business Name: Autumn Glen	**Contractor Name:** Windemere Homes LLC	**Contractor Address:** 14 Windemere Lane Saco	**Phone** 2072834233
Lessee/Buyer's Name	**Phone:**	**Permit Type:** Single Family	**Zone:** R-3

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
vacant land	single family Home 148 E Grand Ave Old Orchard Beach ME 04064	$1,761.00	$185,000.00	

FIRE DEPT: ☐ Approved ☐ Denied — Signature:

INSPECTION: Use Group: R3 Type: 5B BOCA 1999 — Signature: JMB 7/8/04

Proposed Project Description:
2 Story dwelling 24x 38 sfh/ 24x14 Master suite/ 20x24 garage

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

Permit Taken By:	Date Applied For:
jodinoa	06/03/2004

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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland N/A	☐ Variance	☒ Not in Disirict or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone Panel 7 zone X	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☒ Site Plan #2004-0129	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☒ ok with conditions	☐ Denied	☐ Denied
Date: 6/21/04	Date:	Date:

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

5/19/04 Setback/Footing inspection. Too close to determine. Surveyor will fax letter PRIOR to POURING JR NOTE: LETTER REC'D 5/20

6/1/04 Foundation/BACKFILL. Fill material ON SITE. OK. to PROCEED JR

10/6/04 Close in for building 5. Windows not in. Could not measure for egress. Basement stairs not in. Chimney not through the Roof Contractor will call when READY. No close in given JR

11/3/04 Spoke w/ Jeff Purser Regarding Shingles and compatability w/ Ice/water Shield. He will obtain a FAX/Letter from the MANufacturer stating that this does not affect the FIRE Rating of the shingle. JR

3/14/05 Final inspection. Met w/ Jeff PURSER. All work complete. checked smokes, Final plumbing, ARC FAULTS. All OK. However, exposed Romex (going into BASEMENT) is exposed AND must be covered for c/o. JR Need to Reinspect when complete.

3/21/05 DRYwall complete. OK. for c/o JR

4/23/09 New Temp CO issued for Closing
See attached memo JMB

10/28/09 - Final for perm CO - OK to issue per Tammy M. JMM

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
04-0728	06/03/2004	406 F055001

Location of Construction:	Owner Name:	Owner Address:	Phone:
25 Stepping Stone Ln Lot 5	Windemere Homes LLC	14 Windemere Lane	( ) 283-4233
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Windemere Homes LLC	14 Windemere Lane Saco	(207) 283-4233
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Single Family	

Proposed Use:	Proposed Project Description:
single family Home	2 Story dwelling 24x 38 sfh/ 24x14 Master suite/ 20x24 garage

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 06/21/2004

Note: **Ok to Issue:** ☑

1) No Daylight basement is being shown on your submittal. No daylight basement is being approved.
2) Separate permits shall be required for future decks, sheds, pools, and/or garages. No exterior rear decks are being shown. No exterior rear decks are being approved.
3) This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.
4) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved **Reviewer:** Tammy Munson **Approval Date:** 07/08/2004

Note: 7/6/04 Received new submittals, ok to issue **Ok to Issue:** ☑

1) A copy of the enclosed chimney disclosure must be submitted to this office upon completion of the permitted work or for the Certificate of Occupancy.
2) Separate permits are required for any electrical, plumbing, or heating.
3) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work.

Dept: DRC **Status:** Approved with Conditions **Reviewer:** Jay Reynolds **Approval Date:** 06/28/2004

Note: **Ok to Issue:** ☑

1) The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvements as necessary due to field conditions.
2) A sewer permit is required for you project. Please contact Carol Merritt at 874-8300, ext . 8822.The Wastewater and Drainage section of Public Works must be notified five (5) working days prior to sewer connection to schedule an inspector for your site.
3) Your new street address is now #25 STEPPING STONE LANE, the number must be displayed on the street frontage of your house prior to issuance of a Certificate of Occupancy.
4) Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.
5) All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.

Dept: Planning **Status:** Not Applicable **Reviewer:** Jay Reynolds **Approval Date:** 06/28/2004

Note: **Ok to Issue:** ☑

Comments:

07/02/2004-tmm: See plan review sheets - faxed copy to Frank Purser - told him to call w/questions. Several items left off the plans,

Location of Construction:	Owner Name:	Owner Address:	Phone:
25 Stepping Stone Ln Lot 5	Windemere Homes LLC	14 Windemere Lane	( ) 283-4233
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Windemere Homes LLC	14 Windemere Lane Saco	(207) 283-4233
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Single Family	

also need to address the non-classified roof covering.

Attn. Phil

THIS IS NOT A BOUNDARY SURVEY

MORTGAGE INSPECTION OF: DEED BOOK 22794 PAGE 194 COUNTY Cumberland
PLAN BOOK 204 PAGE 247 LOT 5

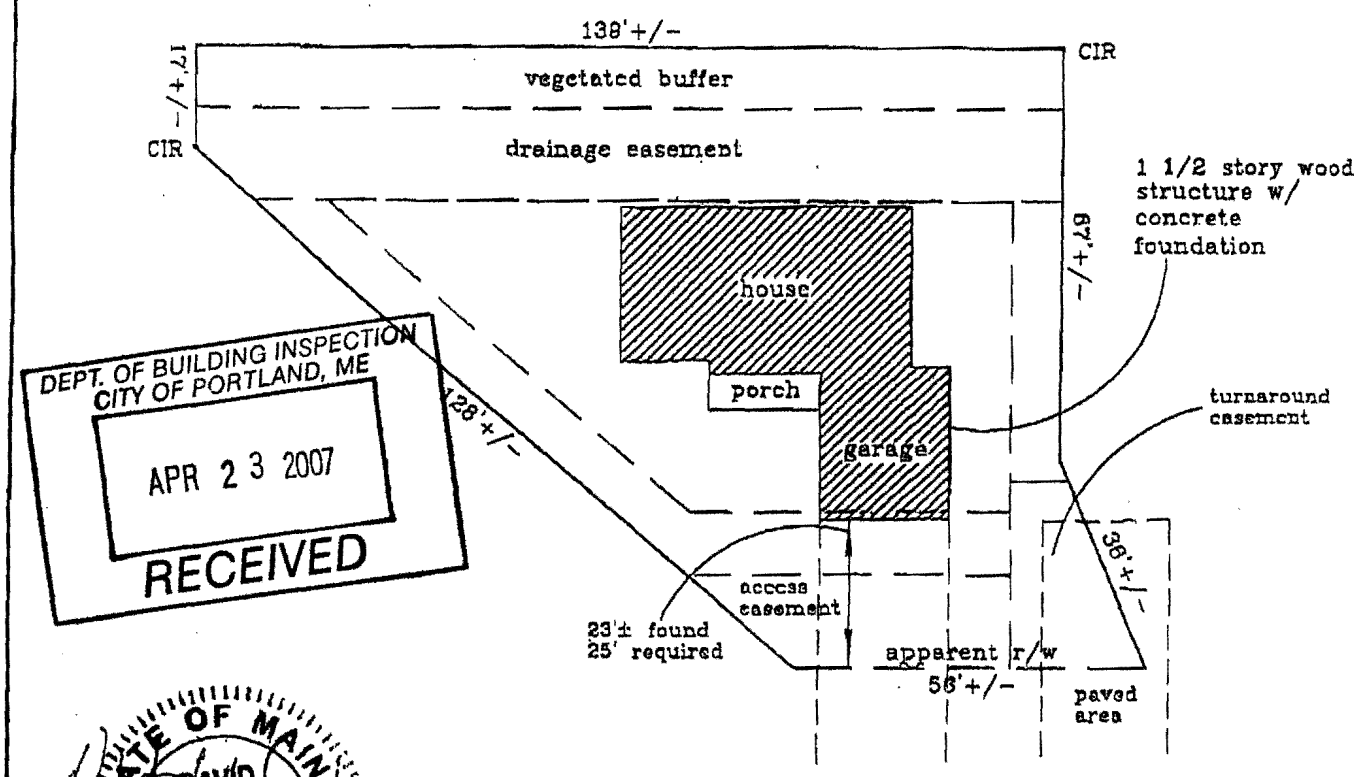
ADDRESS: 25 Stepping Stone Lane, Portland, Maine

Job Number: 585-24
Inspection Date: 4-04-07
Scale: 1" = 30'

Buyers: Larry & Barbara Nault

Sellers: Hancock Construction Finance, LLC

"under construction"



DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
APR 23 2007
RECEIVED

STATE OF MAINE
DAVID L.W. HUGHES #2234
PROFESSIONAL LAND SURVEYOR

CIR = CIRCLE

I HEREBY CERTIFY TO: Preferred Closing Services; Aegis Wholesale Corp. and its title insurer.

Monuments found did not conflict with the deed description.

The dwelling setbacks do [redacted] violate town zoning requirements.

As delineated on the Federal Emergency Management Agency Community Panel:

The structure does not fall within the special flood hazard zone.

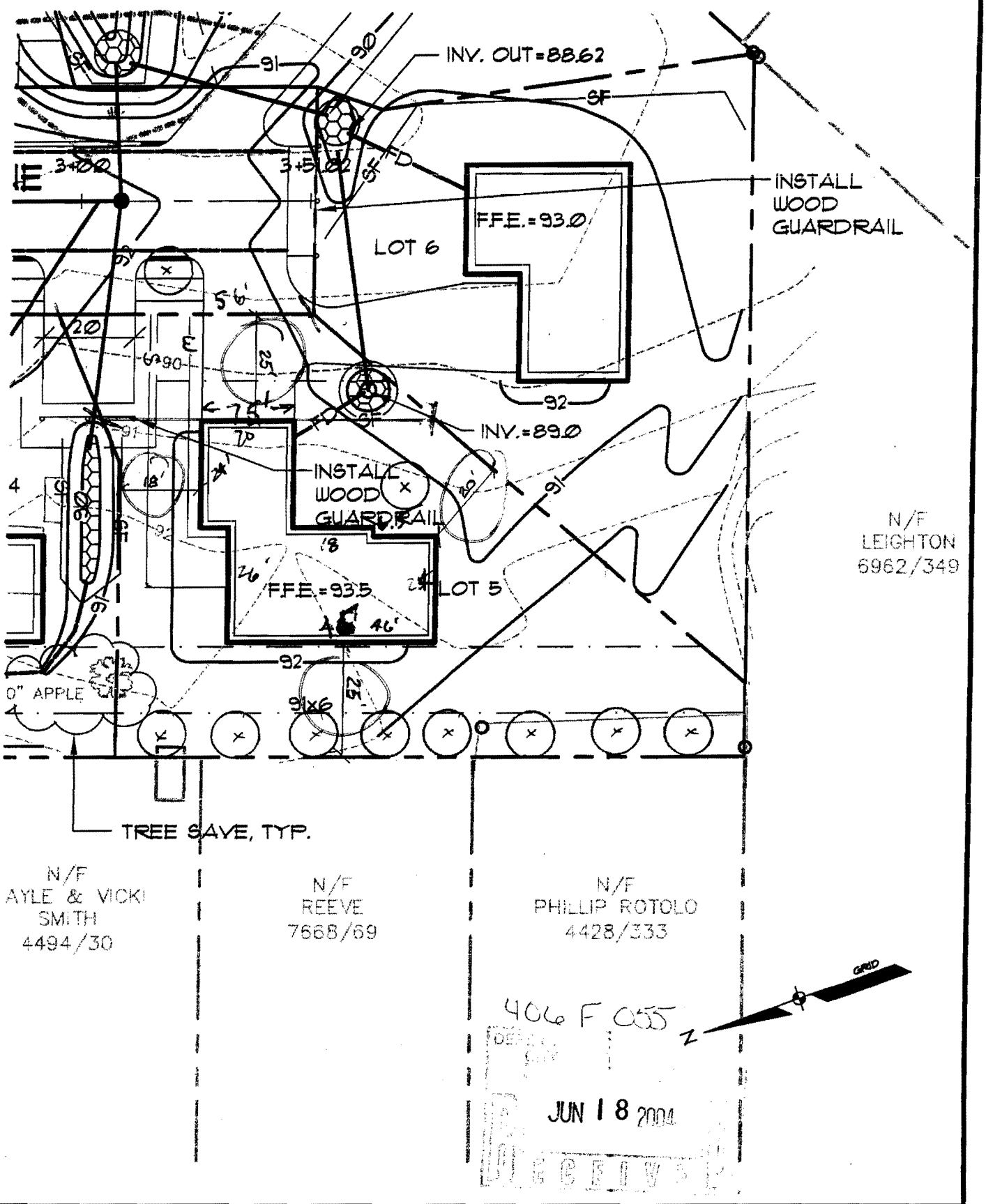
The land does not fall within the special flood hazard zone.

A wetlands study has not been performed.

APPARENT EASEMENTS AND RIGHTS OF WAY ARE SHOWN. OTHER ENCUMBRANCES, RECORDED OR NOT, MAY EXIST. THIS SKETCH WILL NOT REVEAL ABUTTING DEED CONFLICTS, IF ANY.

Livingston-Hughes
Professional Land Surveyors
88 Guinea Road
Kennebunkport, Maine 04046
207-967-9761 phone 207-967-4831 fax
www.livingstonhughes.com

THIS SKETCH IS FOR MORTGAGE PURPOSES ONLY



Sebago Technics Engineering Expertise You Can Build On One Chabot Street Westbrook, Me 04098–1339 Tel (207) 856–0277	**LOT 5 – GRADING PLAN** AUTUMN GLEN SUBDIVISION	SCALE: 1"=30' DATE: 6–1–04
LOCATION: RAY STREET PORTLAND, MAINE	FOR: WINDEMERE HOMES, LLC. SACO, MAINE	SHEET: 1 OF 1

01259G

Sebago Technics

sebagotechnics.com
One Chabot Street
P.O. Box 1339
Westbrook, Maine
04098-1339
Ph. 207-856-0277
Fax 856-2206

August 19, 2004
01259

Jonathan Reed
Code Enforcement
City of Portland
389 Congress Street
Portland, Maine 04101

Via Facsimile: 207-874-8716

Lot 5 Autumn Glen Subdivision

Dear Jonathan,

This letter is to inform you that Sebago Technics, Inc. was hired to layout the house on Lot 5 in the Autumn Glen Subdivision. Under my supervision, one of our survey crews completed this layout and set nails in the foundation hole on August 4, 2004. The proposed house met all of the setbacks as shown on the Subdivision Plan of Autumn Glen.

If you have any further questions please feel free to contact me.

Sincerely,

SEBAGO TECHNICS, INC.

Matthew W. Ek, PLS
Project Surveyor

MWE:mwe/dlf

Stepping Stone Lane Fact Sheet

May 12, 2005

1. Performance Guarantee

The City of Portland is currently holding a sum of $85,424.50 as a performance guarantee. This guarantee is to cover costs associated with the buildout of the subdivision. This balance covers, but is not limited to, the following:

A. Final roadway paving (surface) coat.
B. Curbing
C. Sidewalks
D. Esplanades/Loam and Seeding
E. Monuments
F. Completion of utilities.
G. Final grading/slope stabilization
H. Landscaping
I. Fencing/Rails
J. Open Space amenities

The expiration date of the performance guarantee is October 15, 2005.

2. #5 Stepping Stone Lane

The City has issued a 'temporary' certificate of occupancy on #25 Stepping Stone Lane (lot 5), which is conditional to the completion of the following site work:

A. Final Grading
B. Loam and Seed
C. Driveway paving
D. Landscaping

The temporary certificate of occupancy has an expiration date of June 15, 2005.

3. #19 Stepping Stone Lane

The City has issued a stop work order on #19 Stepping Stone Lane (Lot 4). The Inspections Division can provide additional information on the status of the stop work order and issues that must be resolved.

Prospective Developers of the Subdivision

Prior to the commencement of any site work related to the subdivision, a new applicant/owner must be approved by the Planning Authority. In order for the official change of ownership/change of applicant to occur, we will need to see the following:

A. Revised Subdivision Plat showing new title block of project/applicant with amendment description and signature block for Planning Director.
B. Evidence of technical capacity to complete the development, including a resume of past projects similar to the Ray Street project.
C. Evidence of finacial capability to complete the development, including a letter from a bank or financial institution describing a past business history, and willingness to finance the completion of the project.
D. Finally, a performance guarantee in the amount of $85,424 .50 must be submitted and approved by the City to cover site construction costs.

Prospective Home Buyers/Builders

1. #19 Stepping Stone Lane. As described above, a stop work order has been placed on the construction of the home due to structural concerns. In order to have the stop work order lifted, a remediation plan must be submitted to the Inspections Services Division. The Inspections Division can provide additional information on issues and next steps toward resolution.

2. All other lots within the subdivision. Prospective buyers/builders of other lots within the subdivision will need to apply for single-family house permits (also known as "minor-minor" site plan applications) in order to construct additional homes.

3. As with all subdivisions in the City of Portland, no City services, including rubbish/recycling pick up or snow plowing will be performed until the roadway is completed and accepted by the Portland City Council.

Attachments:
1. Approval Letter
2. Performance Guarantee Estimate Form

STATE OF MAINE
CHIMNEY OR FIREPLACE CONSTRUCTION/INSTALLATION DISCLOSURE

Dear Consumer: State law, specifically 32 M.R.S.A., Chapter 33, §2313-A, requires that chimney or fireplace installers, as of January 1, 1992, provide you with this "Disclosure" prior to the installation or construction of your chimney or fireplace. The purpose of this Disclosure is to inform you that the National Fire Protection Standard #211 (NFPA #211) is the current standard which applies to all new construction of chimneys and fireplaces. Please to note that the State of Maine does not require registration or licensure of chimney or fireplace installers. It is important to realize that many fires are caused each year from improperly constructed fireplaces and chimneys. This disclosure form should help you in making an informed decision as to the abilities of the installer and under what requirements the installation must comply.

INSTALLER INFORMATION

Name of Installer Anthony Doria

D.B.A. Doria Masonry Services

Name of Installer (if incorporated) Anthony J. Doria

D.B.A.

Legal Address P O Box 7174 (Street and No.) South portland (City or Town)

Maine (State) Cumberland (County) 04116 (Zip Code)

Home Telephone 207 / 247 / 2279 Business Telephone 207 / 294 / 2016

Years of experience doing fireplace or chimney installations

CONSUMER IDENTIFICATION

Consumer's Name Windemere Homes LLC

Mailing Address 14 Windemere Lane (Street and No.) Saco (City or Town)

MAINE (State) York (County) 04072 (Zip Code)

Home Telephone / / Business Telephone 207 / 283 / 1423

Installer, please give a brief description of installation being offered.

Installation of single flue masonry block chimney at 25 Stepping Stone Lane, Portland, Maine 04103

I, Anthony Doria, the installer, hereby attest that the preceding information provided is true to the best of my knowledge. I also understand that if I fail to conform with the standards as outlined in NFPA #211 that I shall be subject to penalties as outlined under Title 32, Chapter 33, and the Oil and Solid Fuel Board Rules.

Signature [signature] Date 4/7/05

ELECTRICAL

1. Provide complete electric, telephone, ethernet (cat-5), and cable (coax) service as specified herein and as needed for a complete and proper installation.

2. Provide interior and exterior lighting as specified herein and as needed for a complete and proper installation.

A. Kitchen lighting to be recessed in ceiling.
B. Bathrooms: overhead general light, mirror light, exhaust fans.
C. Bedroom lights to be wired for paddle fans.

3. Use only new materials of the type and quality specified. Where Underwriters' Laboratories, Inc. have established standards for such materials, use only materials bearing the UL label.

4. Wiring

A. Nonmetallic sheathed cable, size 12 through 4 AWG: Copper conductor, 600-volt insulation, rated 60 degree C, type NM.
B. Service entrance cable: Copper conductors, 600-volt insulation, type SE.

5. Telephone & Cable

A. Provide service entrance equipment, outlets, terminal boards and other items required for a complete, approved, and operating telephone and cable service, except for such items as are provided by the serving company.
B. Provide telephone, cat-5, and coax outlets in Living Room, Family Room, and all bedrooms.

6. Main distribution panels: NEMA PB 1, circuit breaker type of 200-amp capacity.

A. Provide surface cabinet front with screw cover and hinged door.
B. Bus: Copper.
C. Ground bus: Copper.
D. Voltage: 120/208 volts.

7. Wiring Devices and Wall Plates

A. Provide exterior receptacles at front and rear of residence.
B. Wall switch: AC general use, quiet operating snap switch rated 20-amp and 120-277 volts AC, color and handle type as selected by the Owner.
C. Receptacle: Type 5-20 R, plastic face, color selected by Owner. all receptacles to be spaced and isntalled to code.
D. Wall dimmer: Linear slide/rotary dial type, color selected by Owner. Rated for 600 watts minimum, size to accommodate circuit shown on the Drawings.
E. Weatherproof cover plate: Gasketed cast metal with hinged gasketed device covers.

8. Smoke Detectors
A. Smoke detectors to be installed in the ceiling of each bedroom, upstairs hall, basement, and garage. Detectors to have battery backup and be interconnected.

INSULATION

1. Provide insulation as specified herein and as needed for a complete and proper installation.

2. insulation bats with an R-value not less than 19 shall be used in all living space exterior walls and sloped ceilings of the dwelling and 2nd story of the garage and in the floors over uninsulated spaces. insulation bats with an R-value not less than 11 shall be used in all exterior walls of the garage.

3. Blown-in insulation 12" thick shall be installed in all horizontal under-roof ceilings.

4. moisture barrier: Install poly vapor barrier on inside surface of all exterior walls and ceilings.

5. insulation shall meet the requirements of the maine state energy code and Maine law Title 10 Chapter 214.

GENERAL REQUIREMENTS

1. The Sub-Contractor shall maintain, at his own expense, full and complete insurance on its work until final approval of the work described in the contract. The Sub-Contractor shall not hold the Contractor liable from any and all costs, damages, fees and expenses from any claims arising on the project. Failure of the Sub-Contractor to maintain appropriate insurance coverage may deem a material breach allowing the Contractor to terminate this contract or to provide insurance at the Sub-Contractor's expense.Prior to the start of work, subcontractor shall provide to the contractor, a certificate of insurance showing, as applicable general liability and workmen's compensation ocverage for each workman.

2. Prior to the start of work, subcontractor shall provide to the contractor a completed IRS form W-9..

3. Sub-Contractor understands and agrees that no change orders or contract additions will be made unless agreed to in writing by Contractor. If any additional work is performed and not covered in this contract, the Sub-Contractor proceeds at his own risk and expense. No alterations, additions, or small changes can be made in the work or method of the performance, without the written change order signed by the Contractor and Sub-Contractor.

4. Sub-Contractor will be responsible for cleaning up the job on a daily basis, including all generated construction debris, drink cans, food wrappers, and/or other trash. If it becomes necessary, the Sub-Contractor will be back charged for appropriate clean up by deducting clean up costs from payments.

5. Sub-Contractor shall warranty all labor, materials and equipment furnished on the project for one year against defects in workmanship or materials utilized. The manufacturers warranty will prevail.

PLUMBING & HEATING

1. Provide plumbing and heating as shown on the Drawings, as specified herein and as needed for a complete and proper installation including, but not limited to:

A. PEX tubing with copper headers domestic hot and cold water piping systems;
B. Drain, waste and vent systems;
C. Plumbing fixtures and trim as shown on the Drawings.
D. Oil piping & Tank
E. Sump pump and discharge piping
F. Cast iron oil-fired boiler w/ integral domestic water heater and 2-zone copper baseboard distribution system

2. The contractor shall obtain and pay for all permits and inspections as required by state and local codes and all work shall be in accordance therewith.

3. Provide frost-free hose bibs at front and rear of dwelling.

4. Provide shutoff valves at entrance of system, at fixtures and at hose bib branches.

5. Furnish and install all plumbing fixtures as indicated and selected by owner.

6. Before covering pipes, the entire water system shall be tested to 100 lbs. pressure and deficiencies corrected.

Windemere Homes	WILTSHIRE MANOR LOT 4 STEPPING STONE LANE AUTUMN GLEN SUBDIVISION PORTLAND, ME	SUBCONTRACTOR SPECIFICATIONS SHEET 2	DATE 8/13/04 SCALE NONE	A-12

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

DESCRIPTION OF BUILDING ELEMENTS		NUMBER AND TYPE OF FASTENER[a,b,c,d]	SPACING OF FASTENERS
Joist to sill or girder, toe nail		3-8d	—
1" x 6" subfloor or less to each joist, face nail		2-8d 2 staples, 1 3/4	— —
2" subfloor to joist or girder, blind and face nail		2-16d	—
Sole plate to joist or blocking, face nail		16d	16" o.c.
Top or sole plate to stud, end nail		2-16d	—
Stud to sole plate, toe nail		3-8d or 2-16d	—
Double studs, face nail		10d	24" o.c.
Double top plates, face nail		10d	24" o.c.
Sole plate to joist or blocking at braced wall panels		3-16d	16" o.c.
Double top plates, minimum 48-inch offset of end joints, face nail in lapped area		8-16d	—
Blocking between joists or rafters to top plate, toe nail		3-8d	—
Rim joist to top plate, toe nail		8d	6" o.c.
Top plates, laps at corners and intersections, face nail		2-10d	—
Built-up header, two pieces with 1/2" spacer		16d	16" o.c. along each edge
Continued header, two pieces		16d	16" o.c. along each edge
Ceiling joists to plate, toe nail		3-8d	—
Continuous header to stud, toe nail		4-8d	—
Ceiling joist, laps over partitions, face nail		3-10d	—
Ceiling joist to parallel rafters, face nail		3-10d	—
Rafter to plate, toe nail		2-16d	—
1" brace to each stud and plate, face nail		2-8d 2 staples, 1 3/4	— —
1" x 6" sheathing to each bearing, face nail		2-8d 2 staples, 1 3/4	— —
1" x 8" sheathing to each bearing, face nail		2-8d 3 staples, 1 3/4	— —
Wider than 1" x 8" sheathing to each bearing, face nail		3-8d 4 staples, 1 3/4	— —
Built-up corner studs		10d	24" o.c.
Built-up girders and beams, 2-inch lumber layers		10d	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
2" planks		2-16d	At each bearing
Roof rafters to ridge, valley or hip rafters: toe nail face nail		 4-16d 3-16d	 — —
Rafter ties to rafters, face		3-8d	—
Wood structural panels, subfloor, roof and wall sheathing to framing, and particleboard wall sheathing to framing			
5/16-1/2	6d common nail (subfloor, wall) 8d common nail (roof)[f]	6	12[g]
19/32 -1	8d common nail	6	12[g]
1 1/8-1 1/4	10d common nail or 8d deformed nail	6	12
Other wall sheathing[h]			
1/2" regular cellulosic fiberboardsheathing	1 1/2 galvanized roofing nail 6d common nail staple 16 ga., 1 1/2 long	3	6
1/2 structural cellulosic fiberboard sheathing	1 1/2 galvanized roofing nail 8d common nail staple 16 ga., 1 1/2 long	3	6
25/32 structural cellulosic fiberboard sheathing	1 3/4 galvanized roofing nail 8d common nail staple 16 ga., 1 3/4 long	3	6
1/2 gypsum sheathing	1 1/2 galvanized roofing nail; 6d common nail; staple galvanized, 1 1/2 long; 1 1/4 screws, Type W or S	4	8
5/8 gypsum sheathing	1 3/4 galvanized roofing nail; 8d common nail; staple galvanized, 1 5/8 long; 1 5/8 screws, Type W or S	4	8
Wood structural panels, combination subfloor underlayment to framing			
3/4 and less	6d deformed nail or 8d common nail	6	12
7/8-1	8d common nail or 8d deformed nail	6	12
1 1/8-1 1/4	10d common nail or 8d deformed nail	6	12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 1.609 km/h.

a. All nails are smooth-common, box or deformed shanks except where otherwise stated.

b. Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.

c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

d. Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically.

e. Spacing of fasteners not included in this table shall be based on Table R602.3(1).

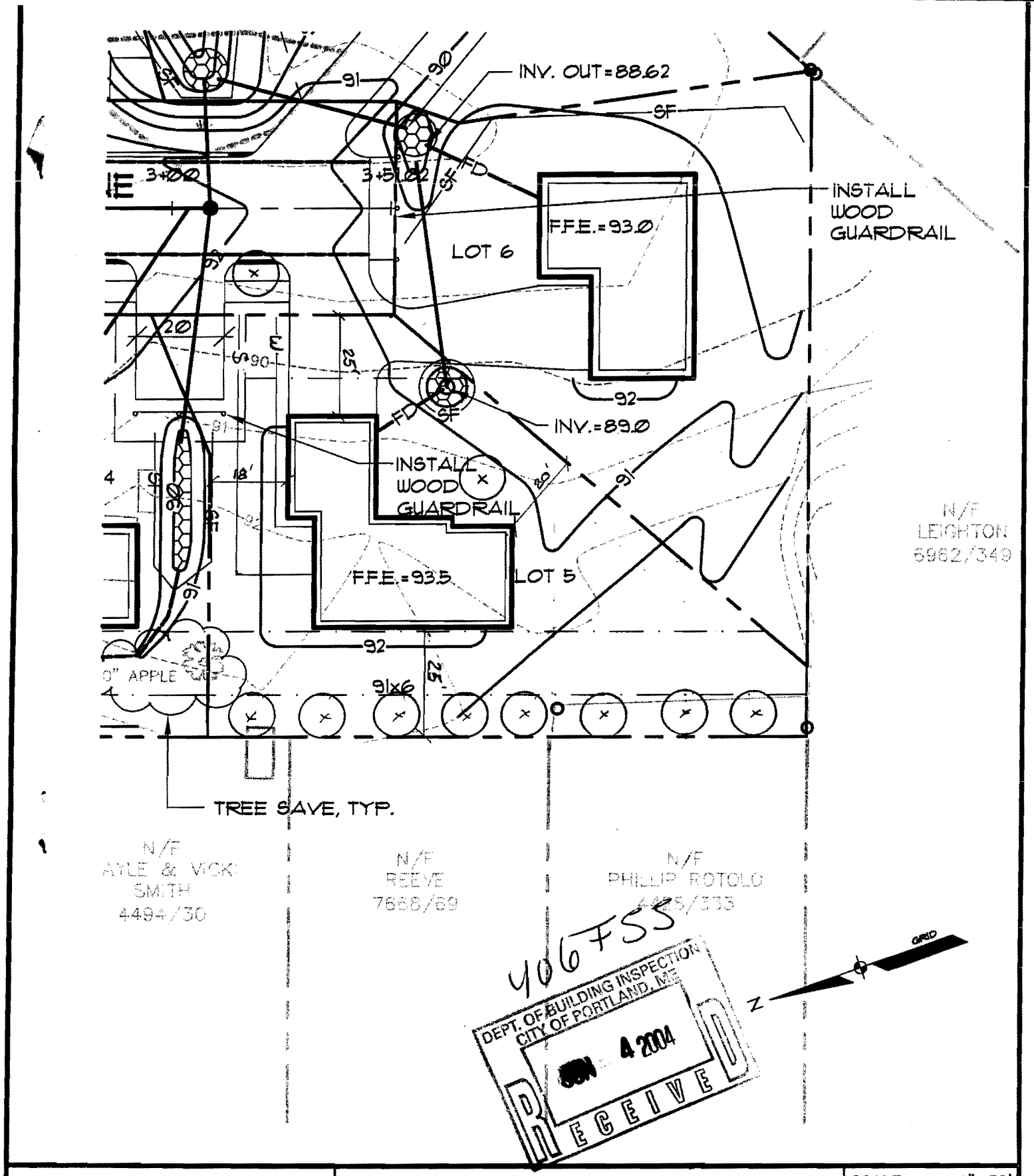
f. For regions having basic wind speed of 110 mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.

g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center When basic wind speed is greater than 80 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.

h. Gypsum sheathing shall conform to ASTM C 79 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to either AHA 194.1 or ASTM C 208.

i. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and at all roof plane perimeters. Blocking of roof or floor sheathing panel edges perpendicular to the framing members shall not be required except at intersection of adjacent roof planes. Floor and roof perimeter shall be supported by framing members or solid blocking.

Windemere Homes	WILTSHIRE MANOR LOT 4 STEPPING STONE LANE AUTUMN GLEN SUBDIVISION PORTLAND, ME	NAIL SCHEDULE (EXCERPT FROM 2000 INTERNATIONAL RES. CODE)	DATE 8/13/04 SCALE NONE	A-13



Sebago Technics Engineering Expertise You Can Build On One Chabot Street Westbrook, Me 04092-1339 Tel (207) 856-0277	LOT 5 – GRADING PLAN AUTUMN GLEN SUBDIVISION		SCALE: 1"=30' DATE: 6-1-04
	LOCATION: RAY STREET PORTLAND, MAINE	FOR: WINDEMERE HOMES, LLC. SACO, MAINE	SHEET: 1 OF 1

01259G

27 May 2004

Mr. James Seymour, P.E.,
Sebago Technics, Inc.,
P. O. Box 1339,
Westbrook, Maine 04098-1339

RE: The Capacity to Handle an Anticipated Increase in Wastewater Flows, From The Proposed "Autumn Glen" Subdivision on and off Beauregard Street, Portland, Maine.

Dear Mr. Seymour:

This letter of May 27, 2004 supercedes the letter of April 15, 2003, for the "Newcomb Glen" subdivision, the predecessor to "Autumn Glen."

The existing fifteen-inch diameter vitrified clay sanitary sewer pipe, located in Ray Street has adequate capacity to **transport**, while The Portland Water District sewage treatment facilities, located off Marginal Way, have adequate capacity to **treat** the anticipated wastewater flows of **3,600 GPD**, from your proposed housing development.

Anticipated Wastewater Flows from the Proposed "Newcomb Glen" Subdivision	
10 Proposed 4-Bedroom Houses, at 360 GPD/House	= 3,600GPD
Total Proposed Increase in Wastewater Flows for this Project	**= 3,600GPD**

The City combined sewer overflow (C.S.O.) abatement consent agreement, with the U.S.E.P.A. and the Maine D.E.P., requires C.S.O. abatement, as well as storm water mitigation, in order to offset any increase in sanitary flows, from all projects.

If I can be of further assistance, please call me at 874-8832.

Sincerely,
CITY OF PORTLAND

Frank J Brancely, B.A., and M.A.
Senior Engineering Technician

FJB

cc: Alexander Q. Jaegerman, Acting Co-Director, Department of Planning, and Urban Development, City of Portland
Sarah Hopkins, Senior Planner, Department of Planning, and Urban Development, City of Portland
Eric Labelle, P.E., City Engineer, City of Portland
Bradley A. Roland, P.E., Environmental Projects Engineer, City of Portland
Anthony W. Lombardo, P.E., Project Engineer, City of Portland
Stephen K. Harris, Assistant Engineer, City of Portland
Jeff Purser, Windemere Homes
Desk file

O:\Engshare\FJB\Capacity Letters\Beauregard Street
C:\Frank's\Capacity Letters\Beauregard Street

Applicant: Windemere Homes LLC *Date:* 6/21/04

Address: Stepping Stone Lane C-B-L: 406-F-055
Lot #5

CHECK-LIST AGAINST ZONING ORDINANCE

Autumn Glen permit # 04-0728

Date - New Def

Zone Location - R-3

Interior or corner lot - end of ROAD

Proposed Use/Work - to construct New single family with attached garage 24'x38' 20'x24'

Sewage Disposal - City

Lot Street Frontage - 50' min - 56' Scaled

Front Yard - 25' min

Rear Yard - 25' min

Side Yard - 14' min

Projections - 2 Story front entry 6.5'x18' - No rear Decks

Width of Lot - 75' min - 75' Scaled

Height - 35' max - 22.5' Scaled

Lot Area - 6,500 sf - 10,077

Lot Coverage/ Impervious Surface - 25%

Area per Family - 6,500 sf

Off-street Parking - 2 req

Loading Bays - N/A

Site Plan - minor/minor # 2004-0129

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - panel 7 zone A

No Daylight Basement Shown

Residential 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: STEPPING STONE LANE, LOT 5 AUTUMN GLEN SUBDIVISION

Total Square Footage of Proposed Structure
1st FL 1116 + 2nd FL 972 + GARAGE 480 = TOTAL 2568

Square Footage of Lot: 10077

Tax Assessor's Chart, Block & Lot
Chart# 406 Block# ~~10~~ F Lot# ~~44~~ 55

Owner: WINDEMERE HOMES LLC

Telephone: 283-4233

Lessee/Buyer's Name (If Applicable): N/A

Applicant name, address & telephone:
WINDEMERE HOMES LLC
14 WINDEMERE LANE
SACO ME 04072
207-283-4233

Cost Of Work: $ 185,000

Fee: $ 1686.00 + 75.00

1761

Current Specific use: VACANT LAND

Proposed Specific use: SINGLE FAMILY RESIDENCE

Project description:
2-story ~~4~~ Bedroom residence with attached 2-car garage

Contractor's name, address & telephone: WINDEMERE HOMES LLC, 14 WINDEMERE LN SACO ME 04072
283-4233

Who should we contact when the permit is ready: FRANK PURSER

Mailing address:
14 WINDEMERE LN
SACO ME 04072

Phone: 283-4233

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

At the discretion of the Planning and Development Department, additional information may be required prior to permit approval. For further information stop by the Building Inspections office, room 315 City Hall or call 874-8703.

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

Signature of applicant: Frank Purser, Manager **Date:** 6/2/04

Permit Fee: $30.00 for the first $1000.00 Construction Cost, $9.00 per additional $1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.

CITY OF PORTLAND, ME DEPT OF BUILDING INSPECTION JUN 2 2004 RECEIVED

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
Zoning Copy

2004-0129
Application I. D. Number

6/2/2004
Application Date

Cole Dean
Applicant

21 C Great Falls Rd , Gorham , ME 04038
Applicant's Mailing Address

2 Story single family home
Project Name/Description

Consultant/Agent

Stepping Stone Ln , Portland, Maine
Address of Proposed Site

Agent Ph: **Agent Fax:**
Applicant or Agent Daytime Telephone, Fax

406 F055001
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): ☑ New Building ☐ Building Addition ☐ Change Of Use ☐ Residential ☐ Office ☐ Retail ☐ Manufacturing ☐ Warehouse/Distribution ☐ Parking Lot ☐ Other (specify) **Single Family Home**

24x38	**6310**	
Proposed Building square Feet or # of Units	Acreage of Site	Zoning

Check Review Required:

☐ Site Plan (major/minor)	☐ Subdivision # of lots ____	☐ PAD Review	☐ 14-403 Streets Review
☐ Flood Hazard	☐ Shoreland	☐ HistoricPreservation	☐ DEP Local Certification
☐ Zoning Conditional Use (ZBA/PB)	☐ Zoning Variance		☐ Other ____

Fees Paid: Site Pla ____ Subdivision ____ Engineer Review ____ Date ____

Zoning Approval Status:

Reviewer ____

☐ **Approved** ☐ **Approved w/Conditions** See Attached ☐ **Denied**

Approval Date ____ Approval Expiration ____ Extension to ____ ☐ Additional Sheets Attached

☐ Condition Compliance ____ signature ____ date ____

Performance Guarantee ☐ **Required*** ☐ **Not Required**

* No building permit may be issued until a performance guarantee has been submitted as indicated below

☐ Performance Guarantee Accepted	date	amount	expiration date
☐ Inspection Fee Paid	date	amount	
☐ Building Permit Issue	date		
☐ Performance Guarantee Reduced	date	remaining balance	signature
☐ Temporary Certificate of Occupancy	date	☐ Conditions (See Attached)	expiration date
☐ Final Inspection	date	signature	
☐ Certificate Of Occupancy	date		
☐ Performance Guarantee Released	date	signature	
☐ Defect Guarantee Submitted	submitted date	amount	expiration date
☐ Defect Guarantee Released	date	signature	

"*1008.4.2 Stopping of performance by building authority or fire chief or his/her designee:* The building authority, or the fire chief or his/her designee, upon finding any establishment to have exceeded its maximum occupancy load limit, shall cause any performance, presentation, spectacle or entertainment to be stopped until the condition is corrected."

Sections 1021.1 Design and Construction and *1021.2 Height* shall be amended by the restatement of and addition of the following exceptions:

"*1021.1 Design and Construction:* Where required by the provisions of Sections 406.5, 408.3.2, 1005.5, 1014.7, 1016.5 and 1925.5, guards shall be designed and constructed in accordance with the requirements of this section and Section 1606.4.

"*1021.2 Height:* The guards shall be at least 42 inches (1067 mm) in height measured vertically above the leading edge of the tread or adjacent walking surface.

"*Exceptions:*

1. Guards along open-sided floor areas and along stairs located less than 30 inches (762 mm) above the floor or grade below shall not be less than 36 inches (914 mm) in height.

"2. Guards along open-sided floor areas mezzanines and landings within a single dwelling unit in Use Group R-2 and serving a single dwelling unit in Use Group R-3 shall not be less than 36 inches (914 mm) in height."

Section 1506.1.4 Nonclassified roof coverings, shall be amended by deleting Exceptions 1 & 2.

The following chapters shall be deleted in their entirety:

Chapter 11 Accessibility.

Chapter 13 Energy Conservation.

Chapter 27 Electric Wiring, Equipment and Systems.

Chapter 29 Plumbing Systems.

CHAPTER 15

ROOFS AND ROOF STRUCTURES

SECTION 1501.0 GENERAL

1501.1 Scope: The provisions of this chapter shall govern the materials, design, construction and quality of roofs and roof coverings.

SECTION 1502.0 DEFINITIONS

1502.1 General: The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

Mansard: A sloping roof which projects from the wall of a building and has a pitch of 45 degrees or greater to the horizontal, or a roof having a double slope, the lower slope being steeper than the upper slope.

Penthouse: An enclosed structure above the roof of a building, other than a roof structure or bulkhead, occupying not more than $33^1/_3$ percent of the roof area (see Section 1510.3).

Roof: The flat slab or sloped deck of a structure including its supporting members, not including vertical supports.

Roof covering: The covering applied to the roof for weather resistance, fireresistance or appearance.

Roof structure: An enclosed structure on or above the roof of any part of a building (see Section 1510.0).

SECTION 1503.0 CONSTRUCTION DOCUMENTS

1503.1 General: For all roofs and roof coverings required by this code, the *construction documents* shall illustrate, describe and clearly delineate the type of roofing system, materials, fastening requirements and flashing requirements which are to be installed.

SECTION 1504.0 WEATHER PROTECTION

1504.1 General: All roofs shall be covered with approved roof coverings properly secured to the building or structure to resist wind and rain. Roof coverings shall be designed, installed and maintained in accordance with approved manufacturer's installation instructions such that the roof covering shall serve to protect the building or structure.

SECTION 1505.0 PERFORMANCE REQUIREMENTS

1505.1 Performance requirements: All roofs and roof coverings shall comply with Sections 1505.2 through 1505.4.

1505.2 Wind resistance of low-slope roof systems: The low-slope roof systems described in Section 1507.5 which are mechanically attached, adhered to the roof deck or ballasted shall be designed to resist the design wind load pressures of Section 1609.0. Roof systems with built-up, modified bitumen, fully adhered or mechanically attached single-ply, metal panels, and other types of membrane roof coverings shall also be tested in accordance with FM 4450, FM 4470, UL 580 or UL 1897 listed in Chapter 35.

1505.2.1 Roofing wind test: Aggregate, ballast and roof pavers shall be wind tested and shall be shown by test to stay in place when subjected to the basic wind speeds of Figure 1609.3, adjusted for building *height* above grade, building exposure, wind gust effect and wind importance factor.

1505.3 Wind resistance of steep-slope roof systems: The steep-slope roof coverings described in Section 1507.4 shall be designed to resist the basic wind speeds of Figure 1609.3, adjusted for *building height* above grade, building exposure, wind gust effect and wind importance factor.

1505.4 Durability: All roofs and roof coverings shall be of approved materials such that those properties which establish fire classification, wind resistance and weather protection shall be maintained in accordance with Sections 1505.4.1 and 1505.4.2.

1505.4.1 Physical properties: Roof coverings shall demonstrate physical integrity over the working life of the roof based upon 2,000 hours of exposure to accelerated weathering tests conducted in accordance with ASTM G23, G26 or G53 listed in Chapter 35. Those roof coverings which are subject to cyclical flexural response due to *wind loads* shall not demonstrate any significant loss of tensile strength for unreinforced membranes or breaking strength for reinforced membranes when tested as herein required.

1505.4.2 Impact resistance: Roof coverings shall resist impact damage based on the results of tests conducted in accordance with ASTM D3746, ASTM D4272, CGSB 37-GP-52M or FM 4470 listed in Chapter 35.

SECTION 1506.0 FIRE CLASSIFICATION

1506.1 Classification: Roof covering materials shall be classified in accordance with Sections 1506.1.1 through 1506.1.4 when tested in accordance with ASTM E108 listed in Chapter 35.

1506.1.1 Class A roof coverings: Class A roof coverings are those which are effective against severe fire test exposure. Class A roof coverings shall include the following: masonry,

concrete, slate, tile, cement-asbestos or assemblies listed and identified as Class A by an *approved testing agency* and manufacturer's designation. Class A roof coverings shall be permitted for use in buildings or structures of all types of construction.

1506.1.2 Class B roof coverings: Class B roof coverings are those which are effective against moderate fire test exposure. Class B roof coverings shall include metal sheets and shingles or assemblies listed and identified as Class B by an *approved testing agency* and manufacturer's designation. Class B roof coverings shall be permitted as the minimum for use in buildings or structures of Type 1 construction.

1506.1.3 Class C roof coverings: Class C roof coverings are those which are effective against light fire test exposure. Class C roof coverings shall include assemblies listed and identified as Class C by an *approved testing agency* and manufacturer's designation. Class C roof coverings shall be permitted as the minimum for use in buildings or structures of Types 2, 3, 4 and 5A construction.

1506.1.4 Nonclassified roof coverings: Nonclassified roof coverings shall not be permitted.

Exceptions

1. Buildings and structures of Type 5B construction with a *fire separation distance* of not less than 30 feet (9144 mm) from the leading edge of the roof.
2. Occupancies in Use Group R-3 located in detached buildings and accessory buildings thereto which have a *fire separation distance* of not less than 6 feet (1829 mm) from the leading edge of the roof.

delete

1506.2 Testing: When testing wood shingles and shakes in accordance with ASTM E108 (including the rain test) and ASTM D2898 listed in Chapter 35, the fire tests shall include the intermittent flame test, spread of flame test, burning brand test and flying brand test; additionally, at the conclusion of the rain test, test panels shall be subjected to the intermittent flame test, burning brand test and flying brand test.

1506.3 Fireretardant-treated shingles and shakes: Fireretardant-treated wood shakes and shingles shall be treated by impregnation with chemicals by the full-cell vacuum-pressure process, in accordance with AWPA C1 listed in Chapter 35. Each bundle shall be marked to identify the manufactured unit and the manufacturer, and shall also be labeled to identify the classification of the material in accordance with the testing required in Section 1506.2 (Class B or C), the treating company and the quality control agency.

SECTION 1507.0 MATERIAL AND INSTALLATION REQUIREMENTS

1507.1 General: The requirements of Sections 1507.2 through 1507.5 shall apply to all roofs and roof coverings. The installation shall comply with the wind resistance and durability requirements of Section 1505.0. The roofing connections specified in this section shall be utilized only where the requirements of Sections 1505.2 and 1505.3 are satisfied by the specified connections.

1507.2 Compatibility of materials: All roofs and roof coverings shall be of materials that are compatible with each other and with the building or structure to which the materials are applied.

1507.3 Material specifications and physical characteristics: All materials for roofs and roof coverings shall conform to the applicable standards listed in this chapter. In the absence of applicable standards or where materials are of questionable suitability, testing by an *approved testing agency* shall be required by the code official to determine the character, quality and limitations of application of the materials.

1507.4 Steep-slope roof coverings: Steep-slope roof covering materials and installations shall comply with Sections 1507.4.1 through 1507.4.9. Unless otherwise noted, all required underlayment shall conform to ASTM D226, Type 1 listed in Chapter 35. In areas where the average daily temperature in January is 25 degrees F. (-4 degrees C.) or less or where there is a possibility of ice forming along the eaves causing a backup of water, an ice shield that consists of at least two layers of underlayment cemented together or of a waterproofing membrane, shall extend from the eave's edge to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

1507.4.1 Asbestos-cement shingles: Asbestos-cement shingles shall conform to ASTM C222 listed in Chapter 35. Asbestos-cement shingles shall not be installed on roof slopes below four units vertical in 12 units horizontal (4:12). Single-layer underlayment is required for all roof applications. Asbestos-cement shingles shall be secured to the roof with two fasteners per shingle.

1507.4.2 Asphalt roll roofing: Asphalt roll roofing shall conform to ASTM D224, D249, D371 or D3909 listed in Chapter 35. Asphalt roll roofing shall not be installed on roof slopes below one unit vertical in 12 units horizontal (1:12), and shall not be installed on roof slopes below three units vertical in 12 units horizontal (3:12) unless applied parallel to the eaves. Single-layer underlayment is required on all roof slopes. Asphalt roll roofing shall be secured to the roof in accordance with approved manufacturer's installation instructions.

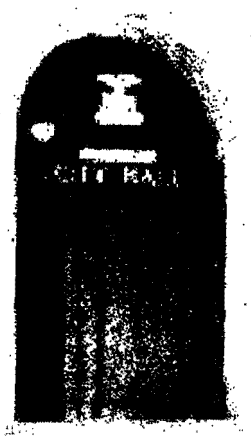
1507.4.3 Asphalt shingles: Asphalt shingles shall conform to ASTM D225 or D3462 listed in Chapter 35. Asphalt shingles shall not be installed on roof slopes below two units vertical in 12 units horizontal (2:12). Double-layer underlayment shall be required on roof slopes below four units vertical in 12 units horizontal (4:12). Single-layer underlayment is required on all other roof slopes. Asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle, or not less than two fasteners per individual shingle. Asphalt strip shingles shall have a minimum of six fasteners per shingle where the structure is located in hurricane oceanline areas along the Atlantic and Gulf of Mexico coastal areas and 100 miles (160 km) inland where the basic wind speed is 80 miles per hour (128 km/hr) or greater, determined in accordance with Figure 1609.3. Shingle headlap shall not be less than 2 inches (51 mm).

1507.4.3.1 Asphalt shingle fasteners: Fasteners for asphalt shingles shall be galvanized, aluminum, or stainless steel roofing nails, minimum 12 gauge [0.105 inch (2.67

City of Portland
INSPECTION SERVICES

Room 315
389 Congress Street
Portland, Maine 04101

Telephone: 207-874-8703 or 207-874-8693
Facsimile: 207-874-8716



FACSIMILE TRANSMISSION COVER SHEET

TO: Frank Purser	FROM: Tammy Munsey
FAX NUMBER: 282-2254	NUMBER OF PAGES, WITH COVER: 7
TELEPHONE: 283-4233	RE: Permit #04-0728
DATE: 7/2/04	

Comments:

Visit us on the web! http://www.ci.portland.me.us/

Resolution to Tammy Munson's comments on Building permit application for Lot 5 Stepping Stone Lane (406/F/055)

Number	Description	Resolution	
1	Foundation damp-proofing – no filter fabric shown	Detail added to Wall Section, Sheet A-5	OK
2	Anchor bolts -- no spacing shown	Detail added to Wall Section, Sheet A-5	ok
3	Attic floor joist species, spacing, dimension – not labeled	Detail added to Building Section, Sheet A-5	ok
4	Fastener schedule – not shown	Added schedule from code to Sheet A-6	ok
5	Living space above garage & fire separation – not shown	Discussed w/ Tammy – roof framing plan shows trusses here and floor plan shows no floor here, therefore there is no living space here. Added note specifying GB fire barrier on rear garage wall. (Sh. A-2)	Ok
6	Garage to living space 4" sill height not shown	Added note specifying 4" sill height on rear garage wall. (Sh. A-2)	ok
7	Egress windows – not shown	Added specification of egress windows to window schedule (Sh. A-2)	ok
8	Roof covering – need classified roof covering	Added text on Sheet A-3, 5 specifying shingles meeting Class C fire rating to be used. PDF of fire retardant treatment and classification included on CD.	OK
9	Attic access – size not noted	Added size to Sh. A-2	ok
10	Draft Stopping around chimney – not noted	Added specification to sheet A-4	OK
11	Header Schedule – not shown	Added column to window schedule for header sizes. (Sh. A-2)	OK
12	Stair headroom clearance not noted	Discussed with Tammy. Only needed for basement landing because first floor has cathedral ceiling. Added headroom dimension to stair detail on sheet A-2.	Ok
13	Stair landing in Bsmt – 3'?	Adjusted stair location 2" to provide 3' at basement stair landing. Changed framing plans and floor plans accordingly	OK
14	Timber framing – where and sizes	Timber frame is for front porch roof only. Added timber sizes to sheet A-5.	ok
15	Cultured Stone Details – provide specifications on installation	Added diagram to Sheet A-6. Also included PDF of installation manual on CD	OK

CITY OF PORTLAND, MAINE
APPROVED CONSTRUCTION PLANS

JUL 08 2004

SUPERSEDES ALL
PRIOR DATED PLANS

282-2254
Fax

283-4253
Frank Purser

Stepping Stone – Lot #5

406-F-055
04-0728

Soil type/Presumptive Load Value (Table 401.4.1) _____		
Component	**Plan Reviewer**	**Inspection/Date/Findings**
STRUCTURAL **Footing Dimensions/Depth (Table 403.1.1 & 403.1.1(1), Section 403.1.2)**	OK	
(1) **Foundation Drainage Damp proofing (Section 406)**	No filter fabric shown	
Ventilation (Section 409.1) Crawls Space ONLY	N/A	
(2) **Anchor Bolts/Straps (Section 403.1.4)**	8"x½" Anchor bolts - spacing?	
Lally Column Type, Spacing and footing sizes (Table 502.3.4(2))	OK	
Built-Up Wood Center Girder Dimension/Type (Table 502.3.4(2))	3-2x10's - Max span - 6'-10" - OK	
Sill/Band Joist Type & Dimensions	2x6 PT w/sealer - OK	
First Floor Joist Species Dimensions and Spacing (Table 503.3.1(1) & Table 503.3.2(1))	2x10's 16"oc @ 13' span - OK	
Second Floor Joist Species Dimensions and Spacing Table(503.3.1(1) & Table 503.3.2(1))	" "	OK

(3) Attic or additional Floor Joist Species Dimensions and Spacing(Table 802.4.2 or 503.3.1(1) & Table 503.3.2(1))	Not labeled	
Roof Rafter Pitch, Span, Spacing& Dimension(Table 802.3.2(7))	2×10's-16"oc - 13' span - OK	
Sheathing; Floor, Wall and roof (Table 503.2.1(1)	5/8" Roof 7/16 walls - OK	
(4) ~~Fastener~~ Schedule (Table 602.3(1) & (2))	Not shown	
Private Garage Section 309 and Section 407 1999 BOCA) (5) Living Space ? (Above or beside) — Not shown — Fire separation Not shown	shows windows on elevations	
(6) Fire rating of doors to living space Door Sill elevation (407.5 BOCA)	No step shown - need 4" Min.	
(7) Egress Windows (Section 310)	Not shown	
(8) Roof Covering (Chapter 9)	Need classified roof covering - see City of Pkld ammendment - deletes exceptions	
Safety Glazing (Section 308)	No hazardous locations	
(9) Attic Access (BOCA 1211.1)	Size not noted - need 22"×30" min.	
(10) Draft Stopping around chimney	Clearances & draft stopping not noted.	

(11) **Header Schedule**	Not shown	
Type of Heating System	Boiler - OK	
Stairs **Number of Stairways** **Interior** 2 **Exterior** 0 **Treads and Risers (Section 314)** 10" T 7 5/8" Rise (13) **Width** 3'+ finished – Will 3'-0" clear be maintained on bsmt landing (12) **Headroom** Not shown **Guardrails and Handrails (Section 315)** OK		
Smoke Detectors Location and type/Interconnected	Note 8A/A-7 - Locations & battery backup - interconnected NOT noted	
Plan Reviewer Signature		

See Chimney Summary Checklist

(14) Any timber framing? Front Porch framing? > where

(15) Cultured Stone details – Want specifications on installation.

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 or 874-8693 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.

____ **Pre-construction Meeting**: Must be scheduled with your inspection team upon receipt of this permit. Jay Reynolds, Development Review Coordinator at 874-8632 must also be contacted at this time, before **any** site work begins on any project other than single family additions or alterations.

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

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

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

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

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

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

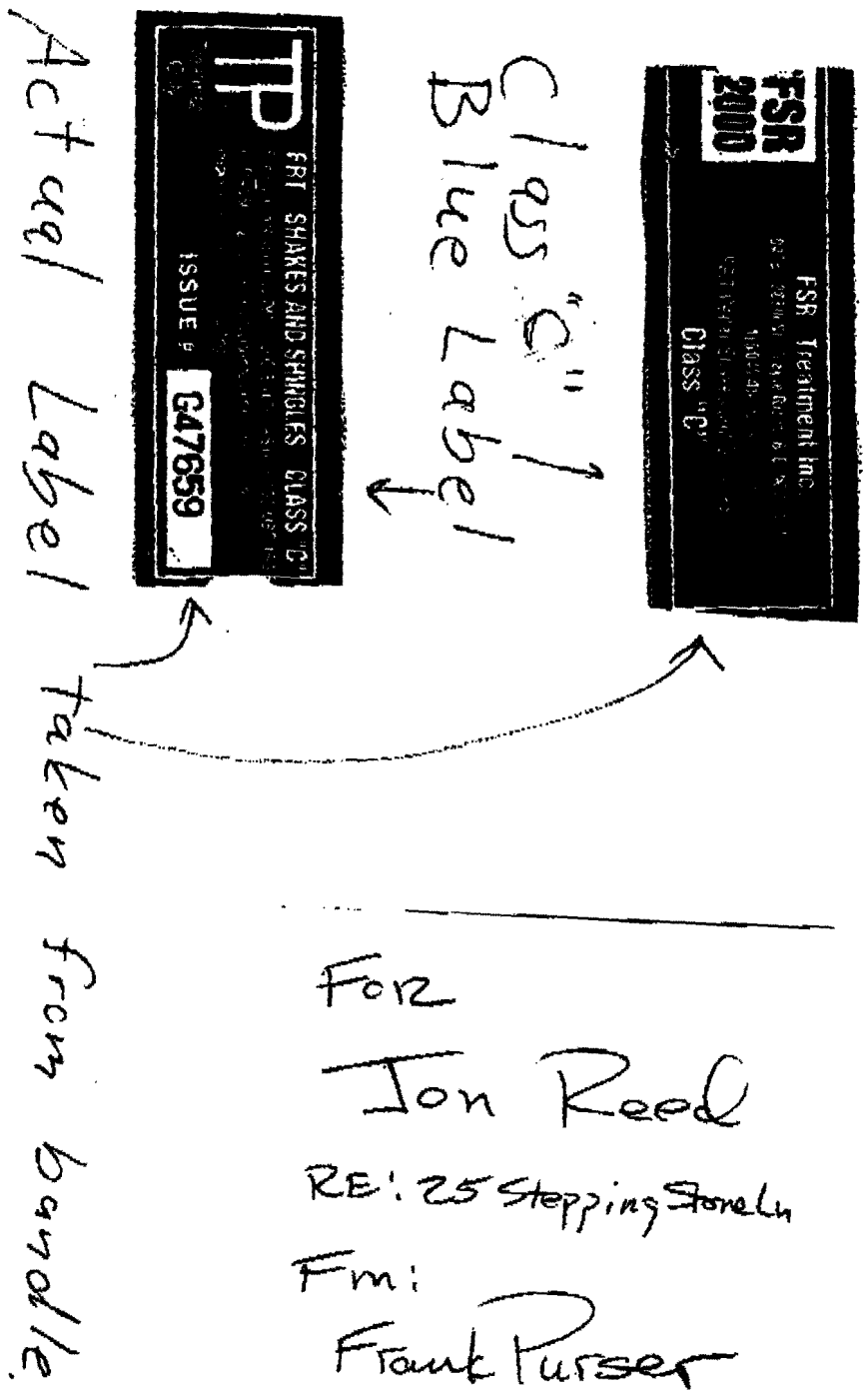
____ **If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

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

X [signature] 7/9/04
Signature of Applicant/Designee Date

[signature] 7/9/04
Signature of Inspections Official Date

CBL: 406 F055 Building Permit #: 04 0726



For
Jon Reed
RE: 25 Stepping Stone Ln
Fm:
Frank Purser

National Evaluation Service, Inc.

5203 Leesburg Pike, Suite 600, Falls Church, Virginia 22041-3401
Phone: 703/931-2187 www.nateval.org Fax: 703/931-6505

NATIONAL EVALUATION REPORT
Report No. NER-215

Re-Issued May 1, 2002

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 07310 – Shingles

REPORT HOLDER:

CHEMCO, INC.
POST OFFICE BOX 875
FERNDALE, WASHINGTON 98248
WWW.CHEMCO.ORG

EVALUATION SUBJECT:

FTX, CEDARPLUS, DURASHAKE, FST, AND CHEMCO PRESSURE-TREATED WOOD SHAKES AND SHINGLES

1.0 SUBJECT

Pressure Treated Wood Shakes and Shingles:

1.1 FTX
1.2 CEDARPLUS
1.3 DURASHAKE
1.4 FST
1.5 CHEMCO

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

2.1 Weather Resistance
2.2 Roofing Classification

3.0 DESCRIPTION

The shakes and shingles described in this report are sold under the trade names FTX, CEDARPLUS, DURASHAKE, FST, and CHEMCO. Treated products are identified as "Class B" and "Class C." The "Class B" treated shakes and shingles have higher levels of chemical retention than the "Class C" treated shakes and shingles.

FTX, CEDARPLUS, DURASHAKE, FST, and CHEMCO pressure treated wood shakes and shingles shall be produced from No. 1 grade western red cedar shakes or shingles, complying with the applicable code. Shakes and shingles, having a maximum moisture content of 25 percent, are pressure treated with a proprietary fire-retardant chemical. The bundles shall be labeled as indicated in the Identification portion of this report.

Installation shall comply with instructions described herein for the Class A, Class B, or Class C roof coverings, except additional weather protective measures are necessary in areas subject to roof ice buildup and wind driven snow as required by the applicable code.

4.0 INSTALLATION

4.1 GENERAL

Wood shakes or shingles shall be installed on minimum roof slopes of 4:12, except as described herein. When wood shingles are installed on minimum roof slopes of 3:12, an underlayment of not less than a listed Type 15 felt complying with ASTM D 226, Type I, shall be used and the installation shall be in accordance with the applicable code and shall be approved by the local building official having jurisdiction.

The roof valley flashing shall be fabricated in accordance to the applicable code and applied over an underlayment of not less than 36 inch (914 mm) wide Type 15 felt. The metal shall extend at least 8 inches (203 mm) from the centerline each way for wood shingles and 11 inches (279 mm) from the centerline each way for wood shakes. Sections of flashing shall be overlapped a minimum of 4 inches (102 mm).

Maximum weather exposure shall not exceed the value specified in **Table 1**. The hip and ridge weather exposure shall not exceed those permitted for the field of the roof.

4.2 CLASS A ROOF COVERING

FTX, CEDARPLUS, DURASHAKE, FST, and CHEMCO pressure treated wood shakes and shingles labeled "Class B" are installed over $^1/_4$ inch (6 mm) thick Dens-Deck® Roof Board, manufactured by Georgia-Pacific Corporation. The Dens-Deck board is fastened either to 1 inch (25 mm) by 4 inch (102 mm) decking spaced in accordance with weather exposure for proper fastening or ½ inch (13 mm) plywood with exterior glue. Dens-Deck board requires a minimum of four fasteners per board to avoid panel shifting. Dens-Deck Roof Board may be substituted with a minimum,

NATIONAL EVALUATION SERVICE, INC.

NES
Product Evaluation Listing

1.0 SUBJECT

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

3.0 DESCRIPTION

4.0 INSTALLATION

5.0 IDENTIFICATION

6.0 EVIDENCE SUBMITTED

7.0 CONDITIONS OF USE

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seventy two pound mineral surface fiberglass cap sheet complying with ASTM D 3909 and fastened to either 1 inch (25 mm) by 4 inch (102 mm) decking spaced in accordance with weather exposure for proper fastening or ½ inch (13 mm) plywood with exterior glue. An interlayment of 18 inch (457 mm) Type 30 felt is placed between courses on the shake decks. Shake and shingle fasteners shall be long enough to penetrate at least 1 inch or through the sheathing. Other installation details are as described in Section 4.3 of this report.

4.3 CLASS B ROOF COVERING

4.3.1 Shake Installation

FTX, CEDARPLUS, DURASHAKE, FST, and CHEMCO pressure treated western red cedar shakes labeled "Class B" are applied over a substrate of 1 inch (25 mm) by 4 inch (102 mm) spaced sheathing boards or not less than ½ inch (13 mm) thick plywood with exterior glue which shall be installed in accordance with the applicable code. An underlayment of Type 30 complying with ASTM D 226, 36 inch (914 mm) wide asphalt saturated organic felt is installed under the 15 or 18 inch (381 or 457 mm) long starter course at the eave line. An 18 inch (457 mm) wide interlayment of Type 30 asphalt saturated organic felt is applied between shake courses in such a manner that no felt is exposed to the weather below the shake butts nor between the individual shakes. Shakes are laid with a minimum sidelap of 1½ inches (38 mm) between joints in adjacent courses. Spacing between shakes shall not be less than $^3/_8$ inch (10 mm) nor more than $^5/_8$ inch (16 mm). Shakes shall be attached to the sheathing with fasteners in accordance to the code, positioned approximately 1 inch (25 mm) from each edge and approximately 2 inches (51 mm) above the exposure line. Nails shall be a minimum No. 13 gauge with a $^7/_{32}$ inch (6 mm) head diameter and of sufficient length to penetrate $^3/_4$ inch (19 mm) into the sheathing or through the thickness of the sheathing, whichever is less. The starter course at the eave shall be doubled. Fifteen inch (381 mm) or 18 inch (457 mm) shakes are permitted to be used for the final course at the ridge.

4.3.2 Shingle Installation

FTX, CEDARPLUS, DURASHAKE, FST, and CHEMCO pressure treated No. 1 grade western red cedar shingles labeled "Class B" shall be applied over a substrate of 1 inch (25 mm) by 4 inch (102 mm) spaced sheathing boards or not less than ½ inch (13 mm) thick plywood with exterior glue which shall be installed in accordance with the applicable code. The pressure treated shingles shall be laid and fastened to the plywood decking as described for pressure treated wood shakes in Section 4.3.1 of this report, except that underlayment and interlayment may be omitted in jurisdictions other than those using the BOCA National Building Code.

4.4 CLASS C ROOF COVERING

FTX, CEDARPLUS, DURASHAKE, FST, and CHEMCO pressure treated shakes or shingles labeled "Class C" shall be installed as described for the Class B roof covering.

5.0 IDENTIFICATION

Bundles of treated wood shakes and shingles shall contain a label noting the shingle or shake grading agency and compliance with UBC Standard 15-3 or 15-4. An additional label noting the pressure treater's name (Chemco, Inc.) and address, the quality control agency's name (Fire Tech Services, Inc.), product name, the Class B or Class C rating and this NES report number, also shall be affixed to each bundle.

The asphalt saturated organic felt underlayment and interlayment and the seventy-two pound mineral surface fiberglass cap sheet shall be identified with the label containing the name of the product, the company, and the quality control agency.

6.0 EVIDENCE SUBMITTED

6.1 Report of tests by United States Testing Company, Inc., California Division, for the Class B and Class C roof covering, dated June 3, 1982, and August 19,

NATIONAL EVALUATION SERVICE, INC.

NES
Product Evaluation Listing

1.0 SUBJECT

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

3.0 DESCRIPTION

4.0 INSTALLATION

5.0 IDENTIFICATION

6.0 EVIDENCE SUBMITTED

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1982, respectively.

6.2 Acceptance standard and quality control tests and procedures established for Chemco, Inc., Ferndale, Washington plant, dated May 6, 1982.

6.3 Inspector's manual for follow up inspections of FTX pressure treated western red cedar shakes and shingles prepared for Chemco, Inc., by Fire Tech Services, Inc.

6.4 Installation instructions for applying the FTX Class B and Class C cedar shakes and shingles roof covering.

6.5 Service agreement for product evaluation, follow up inspection and labeling between Fire Tech Services, Inc. and Chemco, Inc.

6.6 Inspection report of sample identification and treatment process, dated July 23, 1982, from Fire Tech Services, Inc.

6.7 Samples of the labels used for identification of the Chemco pressure treated shakes and shingles for the Class B and Class C roof coverings.

6.8 Drawings showing typical shake and shingle test deck construction by Fire Tech Services, Inc.

6.9 Supplemental information to Chemco data submitted from Fire Tech Services, Inc., dated October 19, 1982.

6.10 Report of Tests by Fire Tech Services, Inc., conducted in accordance with U.B.C. Standard No. 32-7, Section 32.701 (c), dated March 25, 1986.

6.11 Report of fire tests conducted on ten year weather exposed decks, Report No. FTT 21060-3, dated October 6, 1992, prepared by Fire Tech Services, Inc.

6.12 Chemco, Inc.'s Ferndale, Washington plant quality control manual for fire retardant pressure treated cedar shakes and shingles, Revised April, 1996.

6.13 Test report on Chemco FTX Class B Fire Retardant Treated Cedar Shakes and Shingles Applied Over Spaced Sheathing in accordance with ASTM E 108, prepared by Western Fire Center, Inc., Report No. FT 7519-1, dated June 16, 1997, signed by Noel Pataansuu, Thomas Woodford, and James H. Heywood.

6.14 Test report on Chemco FTX Class A Roofing System in accordance with ASTM E 108, prepared by Western Fire Center, Inc., Report No. FT 7902-1, dated September 15, 1997, signed by Noel Pataansuu, Thomas Woodford, and James H. Heywood.

6.15 Test report on Chemco FTX Class A Roofing System Over Spaced Sheathing in accordance with ASTM E 108, prepared by Western Fire Center, Inc., Report No. FT 7902-2, dated September 15, 1997, signed by Noel Pataansuu, Thomas Woodford, and James H. Heywood.

6.16 Test report on Chemco FTX Class A Roofing System With Mineral Surfaced Cap Sheet Over Spaced Sheathing in accordance with UBC Standard 15-2 (ASTM E 108), prepared by Fire Tech Services, Inc., Report No. FT90525-1, dated May 25, 1999, signed by Noel Pataansuu and James H. Heywood.

7.0 CONDITIONS OF USE

The National Evaluation Service Committee finds that FTX, CEDARPLUS, DURASHAKE, FST and CHEMCO pressure treated wood shake and shingle roof covering systems described in this report comply with or are alternatives to the *2000 International Building Code*, *BOCA® National Building Code/1999*, *1999 Standard Building Code*, *1997 Uniform Building Code*, and the *2000 International Residential*

Code subject to the following conditions:

7.1 The treated wood shakes and shingles shall be installed in accordance with this report.

7.2 The wood shakes and shingles shall be pressure treated under a quality control program with inspections by Fire Tech Services, Inc.

7.3 In areas using the BOCA® National Building Code/1999, an underlayment is required under wood shingles at eaves, ridges, hips, valleys, and all other changes of roof slope and between each course of wood shakes on all roof slopes. In areas where the average daily temperature in January is 25 degrees F., two layers of underlayment cemented together (or a waterproofing membrane) is required to extend from the eave to a point at least 24 inches inside the exterior wall line of the building.

7.4 This report is subject to periodic re-examination. For information on the current status of this report, consult the ***NES Product Evaluation Listing*** or contact the **NES**.

TABLE 1
MAXIMUM WEATHER EXPOSURE

LENGTH	3 INCHES TO LESS THAN 4 INCHES IN 12 INCHES	4 INCHES IN 12 AND STEEPER
WOOD SHINGLES		
16 inch	$3^3/_4$	5
18 inch	$4^1/_4$	5½
24 inch	$5^3/_4$	7½
WOOD SHAKES		
18 inch	7½	7½
24 inch	10	10

SI: 1 inch = 25.4 millimeters

Treated Wood News

March 2002 — Provided by Western Wood Preservers Institute

SPECIAL EDITION

Fire Tests for Pressure Fire Retardant Treated Wood

INTERIOR FRTW (Lumber and Plywood)

ASTM E-84 (aka: Steiner Tunnel, ULI 723, NFPA 225, UBC 8-1):

Commonly referred to as the 24 ft. tunnel, ASTM E-84 measures the surface characteristics of FRTW and other building products. This large scale test requires enough material to cover 48 ft^2. Results are compared to standards of untreated Red Oak, and cement fiber board and a correlation or "index" calculated for flame spread and smoke evolution. FR-S, Class A, and Class I protective ratings require a flame spread index of 25 or less and no evidence of progressive combustion after 30 minutes. Class B or II ratings require an index of 26-75 and Class C or III an index of 76-200.

ASTM E-162 Radiant Panel Tests:

This smaller test is also designed to measure flame spread but only requires a sample size of about .5 ft^2. This test relies on a radiant heat source rather than direct flame to initiate ignition of the sample. Results are again compared to standards to form a flame spread index.

NFPA-258 Smoke Density Test:

These tests are basically conducted in a modified ASTM E-162 apparatus and test materials under a specific radiant heat flux's to measure the optical density of the smoke evolved and calculate a smoke density value.

ASTM D-3201 Hygroscopicity:

Designed to determine the hygroscopic potential of materials at specific temperatures and relative humidity levels encountered in service. These tests are run at 90% RH, but many manufacturers run the tests at higher humidities and temperatures to increase the absolute moisture content in the air and test the products in "worst case" scenarios.

Mil 19140E Corrosion Tests:

The standard for testing corrosion potential of FRTW is the Military Specification Mil-L-19140E. Testing is conducted by "sandwiching" metal plates between blocks of FRTW and exposing them at 120° F and 90% RH. This test is usually modified to incorporate additional metals that are more commonly used in service such as galvanized steel. Results are reported in mil per year loss of metals.

ASTM D-5664 and D-5516 Strength Testing:

Strength testing of FRTW is one of the most comprehensive tests performed. Today these tests require exposure to high humidity and temperatures such as those encountered in service. The advent of these tests have resulted in exposure of FRT Plywood at 170° F (ASTM D-5564), and lumber at 150° F (ASTM E-5516), prior to conducting typical bending, compression, tension, and sheer tests.

EXTERIOR FRTW (Lumber and Plywood)

Fire tests for exterior fire retardant treated wood are the same as the above interior tests except, because the intended usage is outdoors, there are no heat-strength tests and the material is re-tested after accelerated weathering tests that replicate years of outdoor weathering (commonly ASTM D-2898 or like standards).

ASTM D-2898 Accelerated Weathering

Method A subjects the specimens to 12 one-week conditioning cycles of 96 hours of water exposure and 72 hours of drying at 140° F (equivalent of over 800" of rain during the 12 week period). Method B subjects the specimens to 24-hr exposure cycles of 4-hr wetting, 4-hr drying, and 8-hr rest. Repeats the cycle for 1000-hr. The drying time is around 150° F with continuous ultraviolet sunlamp exposure throughout the drying time.

MIL-L-1914E:

Fire and related tests for Military Specification MIL-L-1904E Type I (interior) are basically the same as the above interior tests including ASTM E-84 except additional corrosion and toxicity tests are required. MIL-L-1904E Type II (exterior) requires re-testing after the ASTM D-2898 accelerated weathering test. Type II, Category 2 (Navy shipbuilding and repair) is required to be identified by a blue to blue-green dye.

EXTERIOR FRTW (Shake/Shingle Siding)

Pressure Fire Retardant Treated exterior shake and shingle siding fire tests commonly include the ASTM E-84 test and rating system described above. Most will also have been treated/rated pursuant to the roofing tests including various weathering described below.

WESTERN WOOD PRESERVERS INSTITUTE • 7017 N.E.HIGHWAY 99 • VANCOUVER,WA 98665 • 1-800-729-WOOD
WEB:www.WWPInstitute.org • E-MAIL: info@WWPInstitute.org

EXTERIOR FRTW (Shake/Shingle Roofing) (ASTM E-108, UBC 15-2, UL 790, NFPA 256)

ASTM E-108 & UBC 15-2 Spread of Flame Test:

Designed to simulate a fire spreading across the field of the roof, up and over the eaves. Wind velocity –12 mph, gas flame temperature around 1400° F, test incline 5:12, test duration 10 minutes. Conditions of acceptance are no lateral spread of flame/For Class A, 2" maximum spread beyond impingement area; for Class B, 8" maximum spread beyond impingement area. Three test decks per material tested.

ASTM E-108 & UBC 15-2 Intermittent Flame Test:

Designed to simulate the thermal shock and surface cooling of a roof covering with possible cracking and exposure, resulting from the ebb and flow of fire up and over the eaves.

Wind velocity 12 mph, gas flame temperature around 1400° F, test deck incline 5:12, test duration: Class B, 8 cycles-gas flame on 2 minutes. Class A, 15 cycles-gas flame on 2 minutes, off 2 minutes. Conditions of acceptance are, Class A and B, no penetration of the test deck, no exposure of roof deck by breaking, sliding, cracking, or warping of test material, no flying brands produced. Three test decks per material tested.

ASTM E-108 & UBC 15-2 Burning Brand Test:

Designed to simulate burning material blown or fallen onto the roof. The Class B brands are made from strips of kiln dried Douglas Fir, forming a grid of 6" square and 2 1/4" thick. Class A brands are made from strips forming a grid 12" by 2 1/4" thick. The brands are ignited and placed on the most vulnerable locations on the test decks. Wind velocity and test deck incline are the same as in previous tests. Six test decks with one brand each for Class A. Three decks with two brands each for Class B. Conditions of acceptance are Class A and Class B, no penetration of the test deck, no exposure of the roof deck, no flying brands produced.

ASTM E-108 & UBC 15-2 Flying Brand Test:

Designed to test the possibility of a shake or shingle roof producing flying brands capable of igniting combustible material. Wind velocity 12 mph increased to 18 mph after gas flame application for shake decks. Gas flame temperature around 1400° F, test duration 10 minutes for Class B, 20 minutes for Class A. Conditions for acceptance are no flying brands produced. Three test decks per material tested.

ASTM D-2898 Accelerated Weathering (Method A) & UBC 15-2 Rain Test:

The rain test exposes the test decks to severe weathering conditions to explore the possibility of leaching the FR chemicals from the shakes and shingles. Six test decks of each material are placed in a test chamber at an incline of 4:12. The test decks are exposed to 12 one-week conditioning cycles. Each cycle consists of 96 hours of water exposure followed by 72 hours drying time at 1400° F (the equivalent of over 800 inches of rain during the 12 week period). Following the week rain-heat cycling, the decks are subjected to the Intermittent Flame, Burning Brand, and Flying Brand tests with the same acceptance conditions as the initial tests.

ASTM D-2898 Modified Accelerated Weathering (Method B) & ICBO AC 107 Amended Rain Test:

ICBO has developed a more severe amended test. It increases exposures for six decks to three conditioning cycles per day totaling 252 eight-hour cycles (consisting of 4 hours of water exposure and 4 hours of drying) during the 12 week period and adds sunlamps for heat and ultraviolet (UV) exposure at drying temperatures of 145 to 155° F. About 1.6 million gallons of water are used during the 12 week test. After 12 weeks of cycling the decks are re-tested as noted above with the same acceptance conditions as the initial tests.

UBC 15-2, UL 790, NFPA 256 Natural Weathering Tests:

This test exposes the test material/decks to actual weather conditions over a ten year period (ten year standard adopted by all major codes as sufficient indicator of durability of treatment process for essentially the useful life of the material). Fifteen test decks of each material are placed outside at an incline of 5:12 facing south. After each of one, two, three, five and ten years of exposure, three test decks of each tested material are conditioned to a moisture content of between 8 and 12% and re-tested under the Intermittent Flame, Burning Brand, and Flying Brand tests. The same acceptance criteria is used as in the initial fire tests.

FIRE-RETARDANT-TREATED WOOD SHAKES AND SHINGLES

CHEMCO, INC.
POST OFFICE BOX 875
FERNDALE, WASHINGTON 98248

1.0 SUBJECT

FTX, CEDARPLUS, Durashake®, FST and Chemco Fire-retardant-treated Wood Shakes and Shingles.

2.0 DESCRIPTION

2.1 General:

The fire-retardant-treated wood shakes and shingles are produced from No. 1 grade western red cedar shakes or shingles complying with UBC Standard 15-3 or 15-4. The shakes and shingles, having a maximum moisture content of 25 percent, are pressure-treated by Chemco, Inc., with proprietary fire-retardant chemicals. Fire-retardant-treated starter course materials are supplied by Chemco, Inc., and are produced from No. 2 grade taper sawn shakes or No. 2 shingles complying with UBC Standard 15-3 or 15-4, respectively. Products are sold under the trade names FTX, CEDARPLUS, Durashake, FST and Chemco.

2.2 Installation:

2.2.1 General: The wood shakes and shingles are installed on spaced or solid sheathing complying with the 1997 *Uniform Building Code*™ (UBC). The shakes and shingles are installed in accordance with Table 15-B-2 of the code except as noted in this report. On roof slopes from 3:12 (25% slope) to less than 4:12 (33.33% slope), installation requires one layer of Type 15 asphalt-saturated felt. In addition to the interlayment between courses, shakes are installed with an underlayment of 36-inch-wide (914 mm), Type 30 asphalt-saturated felt under the 15- or 18-inch-long (381 or 457 mm) starter course at the eave line. Valley flashing must comply with Section 1508.5 of the UBC, and other flashing must comply with Section 1509. Maximum weather exposure of the shakes and shingles must not exceed those exposures in Table 15-C of the UBC. Weather exposure of hips and ridges must not exceed those exposures permitted for the field of the roof. Starter courses at the eave are doubled using $^3/_4$-inch-by-15-inch (19.1 mm by 381 mm) or 1-inch-by-15 inch (25.4 mm by 381 mm) starter-course shakes or shingles, supplied by Chemco, Inc. Fifteen-inch (381 mm) or 18-inch (457 mm) shakes or shingles may be used for the final course at the ridge. See Figure 1 for typical installation details.

2.2.2 Class A Roof Covering: Products labeled as "Class B" shakes or shingles are installed in accordance with Section 2.2.1 of this report, over spaced or solid sheathing covered either with one layer of $^1/_4$-inch-thick (6.4 mm) Dens-Deck® Roof Board, manufactured by Georgia-Pacific Corporation, or with one layer of 72-pound mineral-surfaced cap sheet. Fastener length must be increased for the thickness of the Dens-Deck board or cap sheet. The Dens-Deck boards are fastened to spaced or solid sheathing using a minimum of four fasteners per board to avoid panel shifting prior to installation of the shakes or shingles. The mineral-surfaced cap sheet is installed with 2-inch (51 mm) overlaps on sides and ends, and attached with a sufficient number of fasteners to hold the sheet in place prior to installation of the shakes or shingles.

2.2.3 Class B Roof Covering: Products labeled as "Class B" shakes or shingles are installed in accordance with Section 2.2.1 of this report.

2.2.4 Class C Roof Covering: Products labeled as "Class C" shakes or shingles are installed in accordance with Section 2.2.1 of this report.

2.3 Identification:

Bundles of treated wood shakes and shingles bear a label noting the shingle or shake grading agency and compliance with UBC Standard 15-3 or 15-4. An additional label is affixed to each bundle, and bears the treater's name (Chemco, Inc.), the product name, the name of the quality control agency (Fire Tech Services, Inc.), the fire classification and the evaluation report number (ICBO ES ER-5404). Labels for "Class B" shakes are printed with red ink and labels for "Class C" shakes are printed with blue ink. See Figure 2 for product labels.

Starter-course shingles and shakes are identified with a label bearing the treater's name (Chemco, Inc.), the product name (Starter-Course), the name of the quality control agency (Fire Tech Services, Inc.), the fire classification, the evaluation report number (ICBO ES ER-5404), and the words "To be used as starter-course only." Labels for "Class B" starter course materials are printed with orange ink and labels for "Class C" starter course materials are printed with purple ink. See Figure 3 for product labels.

Dens Deck Roof Board and mineral-surfaced fiberglass cap sheet must bear the label of a quality control agency accredited by ICBO ES.

3.0 EVIDENCE SUBMITTED

Reports of tests in accordance with the ICBO ES Acceptance Criteria for Fire-retardant-treated Wood Roof Systems (AC107), dated September 1997, quality control manual and installation instructions.

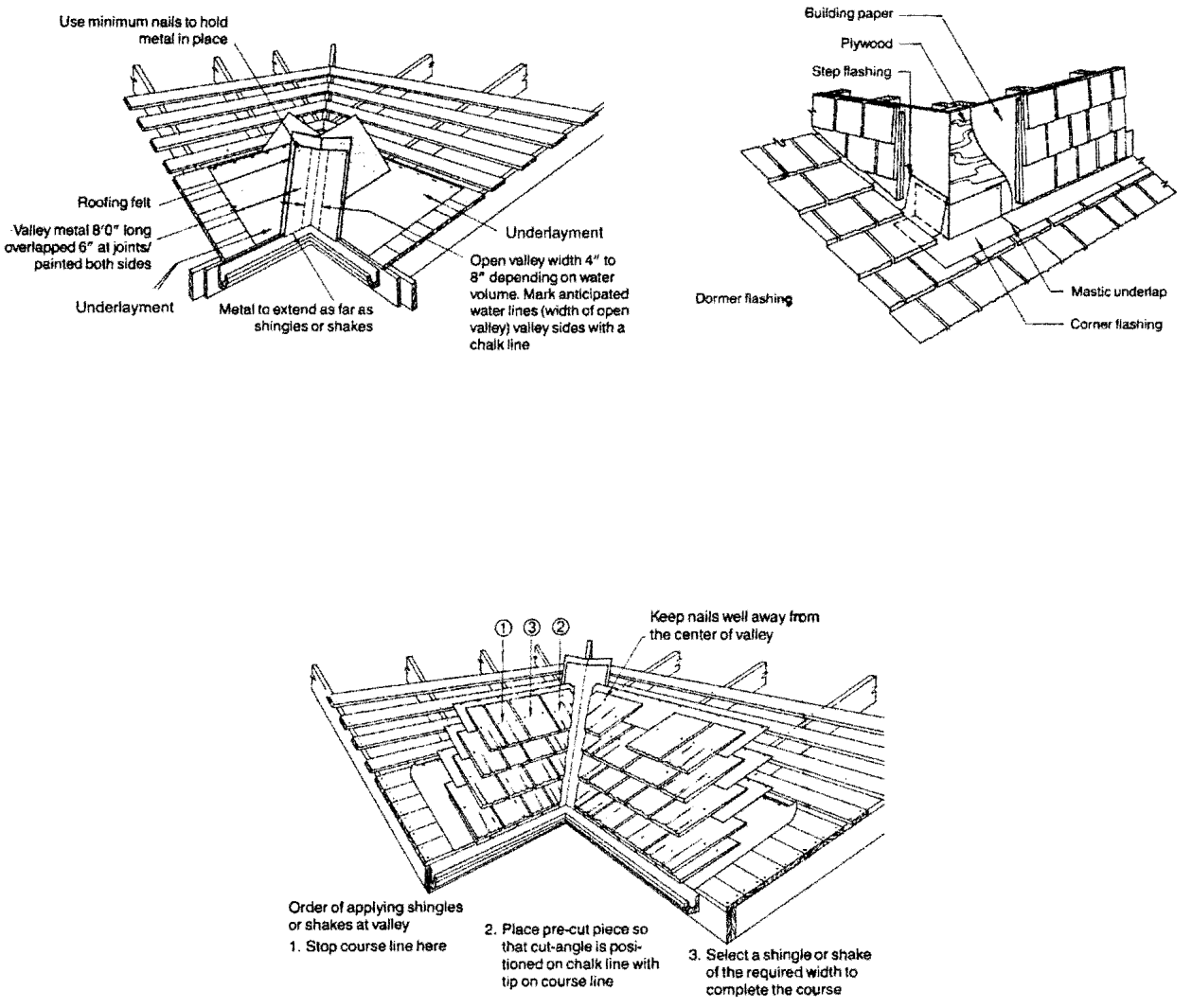
4.0 FINDINGS

That the fire-retardant-treated wood shakes and shingles described in this report comply with the 1997 *Uniform Building Code*™, subject to the following conditions:

4.1 The shakes and shingles are treated, identified and installed in accordance with this report.

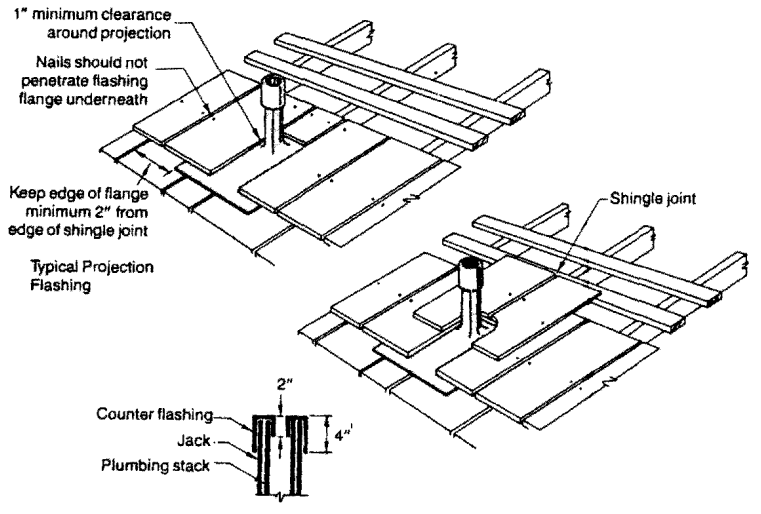
4.2 The shakes and shingles are pressure-treated by Chemco, Inc., in Ferndale, Washington, under a quality control program with inspections by Fire Tech Services, Inc. (AA-641).

This report is subject to re-examination in two years.

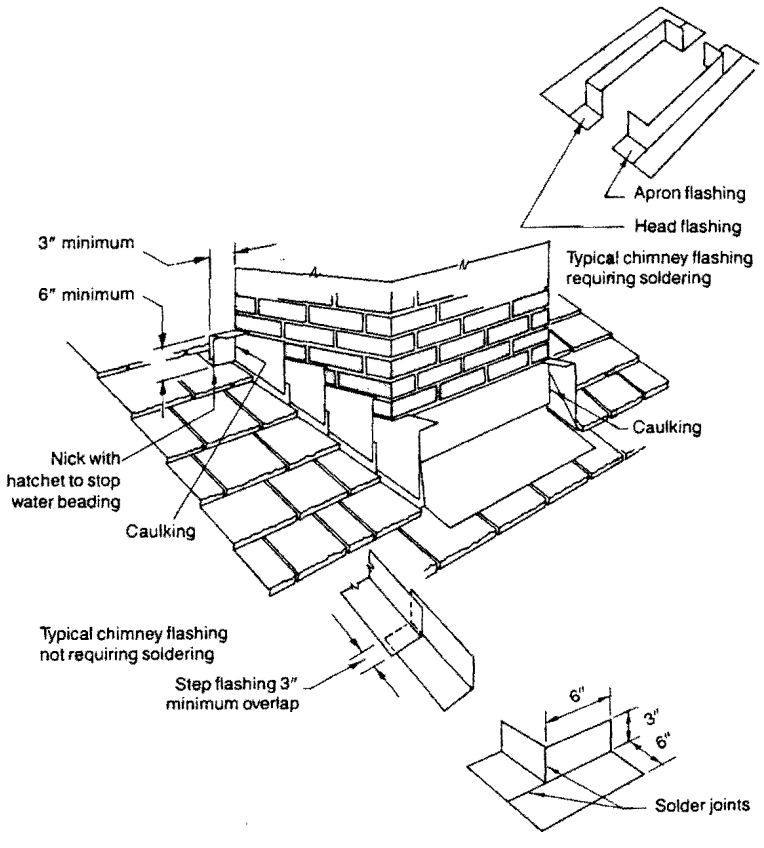


Flashing Details For Shingle and Shake Valleys

FIGURE 1—TYPICAL INSTALLATION DETAILS



Flashing Details for Typical Roof Projections



For **SI:** 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE 1—TYPICAL INSTALLATION DETAILS—(Continued)

CHEMCO
PRESSURE TREATED SHAKES & SHINGLES
FERNDALE, WA 98248

Class B Fire Retardant
N.E.R. NO. 215, ICBO ES ER 5404
Q.A. by FIRE TECH SERVICES, INC.
REPORT NO. AA-641
LISTING NO. 3500A
Must be applied in accordance with application instructions included with this roofing.

CHEMCO
PRESSURE TREATED SHAKES & SHINGLES
FERNDALE, WA 98248

Class C Fire Retardant
ICBO ES ER 5404
Q.A. by FIRE TECH SERVICES, INC.
REPORT NO. AA-641
LISTING NO. 3500A
Must be applied in accordance with application instructions included with this roofing.

CEDAR PLUS

Class B Fire Retardant
ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA
Q.C. INSPECTION AGENCY
AA-641
LISTING No. 1000B
APPLICATION INSTRUCTIONS INCLUDED WITH THIS ROOFING

TREATED BY
CHEMCO
FERNDALE, WA 98248

CEDAR PLUS

Class C Fire Retardant
ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA
Q.C. INSPECTION AGENCY
N.E.R. No. QA-214
LISTING No. 1000B
APPLICATION INSTRUCTIONS INCLUDED WITH THIS ROOFING

TREATED BY
CHEMCO
FERNDALE, WA 98248

DURASHAKE® **FT**
Fire Retardant Treated Shakes & Shingles
Class C Fire Retardant - ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA

DURASHAKE IS A
REGISTERED TRADEMARK OF
AMERICAN WOOD PRESERVERS, INC.
MISSION, BRITISH COLUMBIA V2V 4M4

TREATED BY
CHEMCO
FERNDALE, WA 98248

DURASHAKE® **FT**
Fire Retardant Treated Shakes & Shingles
Class B Fire Retardant - ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA

DURASHAKE IS A
REGISTERED TRADEMARK OF
AMERICAN WOOD PRESERVERS, INC.
MISSION, BRITISH COLUMBIA V2V 4M4

TREATED BY
CHEMCO
FERNDALE, WA 98248

FTX
PRESSURE TREATED SHAKES AND SHINGLES
CERTI-GUARD

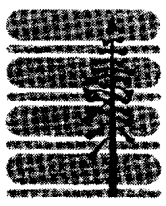
Class C Fire Retardant
ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA
Q.C. INSPECTION AGENCY
LISTING No. 5014
APPLICATION INSTRUCTIONS INCLUDED WITH THIS ROOFING

TREATED BY
CHEMCO
FERNDALE, WA

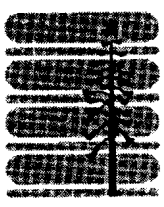
FTX
PRESSURE TREATED SHAKES AND SHINGLES
CERTI-GUARD

Class B Fire Retardant
ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA
Q.C. INSPECTION AGENCY
N.E.R. No. QA-214
LISTING No. 5310
APPLICATION INSTRUCTIONS INCLUDED WITH THIS ROOFING

TREATED BY
CHEMCO
FERNDALE, WA



FST CLASS B FIRE RETARDANT SHAKES & SHINGLES
Treated by CHEMCO INC. FERNDALE WA 98248
EVALUATION REPORT NUMBER ER-5404
Q.A. by FIRE TECH SERVICES INC. REPORT NO. AA-641
LISTING NO. 3000 A Must be applied in accordance with application instructions included with this roofing.



FST CLASS C FIRE RETARDANT SHAKES & SHINGLES
Treated by CHEMCO INC. FERNDALE WA 98248
EVALUATION REPORT NUMBER ER-5404
Q.A. by FIRE TECH SERVICES INC. REPORT NO. AA-641
LISTING NO. 3000 A Must be applied in accordance with application instructions included with this roofing.

FTX
PRESSURE TREATED SHAKES AND SHINGLES
TREATED BY CHEMCO FERNDALE, WA 98248

Class B Fire Retardant
ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA
Q.C. INSPECTION AGENCY
N.E.R. No. QA-214
LISTING No. 5310
MUST BE APPLIED IN ACCORDANCE WITH APPLICATION INSTRUCTIONS INCLUDED WITH THIS ROOFING

FTX
PRESSURE TREATED SHAKES AND SHINGLES
TREATED BY CHEMCO FERNDALE, WA 98248

Class C Fire Retardant
ICBO ES ER#
FIRE TECH SERVICES ISSAQUAH, WA
Q.C. INSPECTION AGENCY
N.E.R. No. QA-214
LISTING No. 5014
MUST BE APPLIED IN ACCORDANCE WITH APPLICATION INSTRUCTIONS INCLUDED WITH THIS ROOFING

FIGURE 2—PRODUCT LABELS

STATE OF MAINE
CHIMNEY OR FIREPLACE DISCLOSURE

Dear Consumer: State law, specifically 32 M.R.S.A., Chapter 33, requires chimney or fireplace installers, as of January 1, 1992, to provide you with this Disclosure prior to the installation work being done on your chimney or fireplace. The purpose of this Disclosure is to help you, as a consumer, make an informed decision as to the abilities of the installer and under what requirements the installation must comply. It is important to note that the State of Maine does not require registration or licensure of chimney or fireplace installers; however, it is just as important to realize that many fires are caused each year by improperly constructed fireplaces and chimneys. For further information about this law, call the Division of Licensing & Registration at 624-8629 or write to the Division at #35 State House Station, Augusta, Maine 04333.

INSTALLER INFORMATION

Name of Installer_____

D.B.A._____

Name of Installer (if incorporated)_____

D.B.A._____

Legal Address_____
(Street and No.) (City or Town)

_____
(State) (County) (Zip Code)

Home Telephone ____/____/____ Business Telephone ____/____/____

Years of experience doing fireplace or chimney installations_____.

CONSUMER IDENTIFICATION

Consumer's Name_____

Mailing Address_____
(Street and No.) (City or Town)

_____
(State) (County) (Zip Code)

Home Telephone ____/____/____ Business Telephone ____/____/____

Installer, please give a brief description of installation being offered.

_____

_____

_____

_____

I, _____, the installer, hereby attest that the preceding information provided is true to the best of my knowledge. I also understand that if I fail to conform with the standards as outlined in NFPA 211 that I shall be subject to penalties as outlined under Title 32, Chapter 33, Oil and Solid Fuel Board.

Signature_____ Date_____

NFPA 31

INSTALLATION STANDARDS

Please check the type of unit(s) that will be installed:

☐ Factory-Built Chimney and Chimney Units.

Factory-built chimney and chimney units shall be listed and shall be installed in accordance with the temperature conditions of the listing and the manufacturer's instructions and all requirements of NFPA 221 for chimneys, fireplaces, vents and solid fuel appliances.

☐ Masonry Chimney.

Masonry chimneys shall be designed, anchored, supported and re-enforced as required by NFPA 211 for chimneys, fireplaces, vents and solid fuel appliances.

☐ Metal Chimney.

Metal chimneys shall be constructed in accordance with NFPA 211, and shall apply good engineering practices as necessary for:

1. Strength to resist stress
2. Adequate anchoring and bracing
3. Durability
4. Security against leakage
5. Allowances for thermal expansion

☐ Factory Built Fireplace.

Factory built fireplaces shall be listed and shall be installed in accordance with the terms of its listing and all applicable sections of NFPA 211.

☐ Masonry Fireplace.

Masonry fireplaces shall meet the requirements of NFPA 211, Chapter 7 and all other pertinent sections.

☐ Other

Please list on separate sheet of paper if making repairs of pre-existing chimneys, such as repair or replacement of chimney liners, etc.

CONSUMER CHECKLIST

1. Have you asked for references to be provided by the installer?
2. Is the installer familiar with the NFPA 211 codes and does the installer carry a code book?
3. If the installation is a pre-fabricated or fireplace, is its manufacturer registered with the Maine Oil & Solid Fuel Bd.
4. Does the installer provide any type of written guarantee for the product installation being proposed?
5. Has the installer provided you with a written contract? 10 M.R.S.A. Chapter 219-A requires written contracts for any home remodeling or construction with an estimated cost in excess of $1,400.
6. Have you asked the local fire department or code enforcement officials to inspect the installation during and after completion?

TO: Inspections Department

FROM: Jay Reynolds, Development Review Coordinator

DATE: March 17, 2005

RE: C. of O. for #25 Stepping Stone Lane
(CBL406F055) (ID#2004-0129)

After visiting the site, I have the following comments:

Site work incomplete:

1. Final Grading
2. Final Paving
3. Loam and Seed
4. Landscaping

I anticipate this work can be completed by **June 15, 2005**.
At this time, **I recommend issuing a temporary Certificate of Occupancy.**

Cc: Sarah Hopkins, Development Review Services Manager
Mike Nugent, Inspection Services Manager
File: Urban Insight

File: O:\plan\drc\steppingstone25a.doc

TO: Inspections Department

FROM: Philip DiPierro, Development Review Coordinator

DATE: April 9, 2007

RE: C. of O. for #25 Stepping Stone Lane, Lot #5 Autum Glenn Subdivision (Id#2004-0129)(CBL 406 F 055001)

After visiting the site, I have the following comments:

Site work incomplete:

1. Final Grading,
2. Loam and seed,
3. Landscaping,
4. Miscellaneous Site Work

I anticipate this work can be completed by **July 1, 2007**.
At this time, **I recommend issuing a temporary Certificate of Occupancy.**

Cc: Barbara Barhydt, Development Review Services Manager
Jeanie Bourke, Inspection Services Manager
File: Urban Insight

C:\DOCUME~1\jmb\LOCALS~1\Temp\Stepping Stone 25 Temp CO 4-9-07.doc

TO: Inspections Department

FROM: Philip DiPierro, Development Review Coordinator

DATE: October 29, 2009

RE: C. of O. for #25 Stepping Stone Lane, Lot #5,
(Id#2004-0129) (CBL 406 F 055001)

After visiting the site, I have the following comments:

Site work complete

At this time, **I recommend issuing a permanent Certificate of Occupancy.**

Cc: Barbara Barhydt, Development Review Services Manager
Tammy Munson, Director Inspection Services
File: Urban Insight

CITY OF PORTLAND, MAINE

Department of Building Inspection

Certificate of Occupancy

LOCATION 25 Stepping Stone Ln CBL 406 F055001

Issued to Windermere Homes Llc /Owner Date of Issue 01/24/2006

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 04-0728, has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
Single Family Dwelling w/ attached 20x24 Garage	Use Group R3 Type 5B Boca 1999

Limiting Conditions

This is a temporary certificate and shall expire on 6/15/06. All exterior site work must be complete by that date. Any future work shall require seperate permit(s).

This certificate supersedes certificate issued

Approved:

01/24/06 Jon Reed 1/25/06

(Date) *Inspector* *Inspector of Buildings*

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 25 Stepping Stone Ln CBL 406 F055001

Issued to Windemere Homes Llc /Owner **Date of Issue** 04/23/2007

This is to certify that the building, premises, or part thereof, at the above location, built – altered – changed as to use under Building Permit No. 04-0728 , has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
Single Family Dwelling w/ attached 20x24 Garage	Use Group R3 Type 5B Boca 1999

Limiting Conditions:

This is a temporary certificate and shall expire on July 1, 2007 All exterior site work must be complete by that date. See attached fact sheet.

This certificate supersedes certificate issued January 24, 2006

Approved:

4/23/07 — Janice Bocke — Inspector — Inspector of Buildings — 4/23/07

(Date)

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 25 Stepping Stone Ln **CBL** 406 F055001

Issued to Apex Inc /Owner **Date of Issue** 10/29/2009

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 04-0728, has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
Entire	Single Family, Type 5b, Use Group R-3, Boca 1999

Limiting Conditions:

This certificate supersedes certificate issued 4/25/07

Approved:

10/29/07 Thomas M. Markley
(Date) *Inspector*

Thomas M. Markley 10/29/07
Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.