2613 SW HAMILTON CT. REV01 RS04-025402

RS.04.025402 REV.01.

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CITY OF
PORTLAND, OREGON
BUREAU OF DEVELOPMENT SERVICES
1900 SW 4th Ave, Suite 5000
Portland, OR 97201

MULTNOMAH COUNTY

RESIDENTIAL 1 & 2 FAMILY PERMIT

04-025402-REV-01-RS

Site Address: 2613 SW HAMILTON CT
2613 HAMILTON CT

Issued: 8/3/04

PROJECT INFORMATION		Occ. Group	Const. Type
Single Family Dwelling	Alteration	R3	V-N

Project Description: REVISION 8/3/04 - ADD ENGINEERING ON HEADERS AND POST PER INSPECTORS REQUEST

APPLICANT	PATTI J BUSER-HILL	Phone	(503) 245-7028
PROPERTY OWNER	MONTGOMERY J HILL & PATTI J BUSER-HILL	Phone	
CONTRACTOR	PATTI J BUSER-HILL	Phone	

Project Details

Code Edition	IRC - 2003
Water District	Portland Water Burea

Project Details

GIS Update Flag	05/28/04
Zoning Enforcement Agency	Portland

PAID
AUG - 3 2004
CITY OF PORTLAND

This permit expires if, at any time, 180 days pass without an approved inspection. If you are not able to obtain an inspection approval within 180 days, you may request a one-time only extension of 180 days by calling 503-823-7388.

BEFORE YOU DIG

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 1-800-332-2344).

CITY CONTACT
E-Mail:
Phone:
Fax: (503) 823-4172

INSPECTION REQUEST PHONE NUMBERS

Building/Trade Inspections - Call Before 6:00 AM: (503) 823-7000

TDD: (503) 823-6868

IVR Inspection Request Number: 2363710

1

Kilcullen Engineering, LLC

STRUCTURAL

7083 N. Burrage Ave
Portland, OR 97217

Phone: (503) 493-2575
Fax: (503) 235-2777

July 2004

City of Portland
APPROVED
AUG 03 2004
Permit Number

Patti J. Buser-Hill, Architect
2613 SW Hamilton Court
Portland, Oregon 97239

RE: Supplemental Report
2613 SW Hamilton Court
Portland, Oregon

As you requested, a review of proposed structural items as requested has taken place for the above noted project. It is my understanding that the following items are at the request of the City of Portland Building Inspector. The specifications herein are based on information supplied by the client. Kilcullen Engineering, LLC is to be notified of any discrepancies between the as-built conditions and those shown herein.

The following is an itemized list of items as requested. Refer to the proposed plans and previous submittals for additional information. Supplemental calculations have been included where warranted.

1. The floor joists adjacent to the basement stair case cantilever over the beam to support the kitchen wall above. Though there is no additional loading to this location, I recommend that a new 4x4 post be added at the bottom of the stairs, under the double 2x12 rim joist/beam. This will greatly increase the floor performance above and reduce any potential sag at this location. The double 2x4 header above the bottom of stairs is acceptable (only spanning three feet with no bearing above). Refer to Figure 1 of this package for additional information and specifications.
2. Install a new 4x10 header at the closet door opening in order to adequately support the loads above. Refer to Figure 1 for location.
3. A new header at the laundry room door is required. Refer to Figure 1 for additional information.

If you have any questions, or wish to discuss the project, please do not hesitate to contact me.

Sincerely,

51510
MAY 17, 1999
CORY F. KILCULLEN
EXPIRATION DATE 07/02/2005

Cory Kilcullen, PE

04-025402-REV-01-RS

1/4

Title :
Dsgnr:
Description :

Scope :

Job #
Date: 12:35AM, 21 JUL 04

Rev: 580004
User KW-0605776 Ver 5.8.0 1-Dec-2003
(c)1983-2003 ENERCALC Engineering Software

Timber Beam & Joist

Page 1

Description

Timber Member Information

Code Ref: 2001 NDS, 2003 IBC, 2003 NFPA 5000. Base allowables are user defined.

		hdr at stairs	hdr laundry door
Timber Section		4x10	4x4
Beam Width	in	3.500	3.500
Beam Depth	in	9.250	3.500
Le: Unbraced Length	ft	0.00	0.00
Timber Grade		Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2
Fb - Basic Allow	psi	900.0	900.0
Fv - Basic Allow	psi	180.0	180.0
Elastic Modulus	ksi	1,600.0	1,600.0
Load Duration Factor		1.150	1.150
Member Type		Sawn	Sawn
Repetitive Status		No	No

Center Span Data

Span	ft	2.66	2.67
Dead Load	#/ft	200.00	125.00
Live Load	#/ft	520.00	325.00

Results

	Ratio =	0.1233	0.4326
Mmax @ Center	in-k	7.64	4.80
@ X =	ft	1.33	1.33
fb : Actual	psi	153.1	671.4
Fb : Allowable	psi	1,242.0	1,552.5
		Bending OK	Bending OK
fv : Actual	psi	18.8	57.6
Fv : Allowable	psi	207.0	207.0
		Shear OK	Shear OK

Reactions

@ Left End	DL	lbs	266.00	166.62
	LL	lbs	691.60	433.22
	Max. DL+LL	lbs	957.60	599.85
@ Right End	DL	lbs	266.00	166.62
	LL	lbs	691.60	433.22
	Max. DL+LL	lbs	957.60	599.85

Deflections

		Ratio OK	Deflection OK
Center DL Defl	in	-0.001	-0.007
L/Defl Ratio		52,332.0	4,505.4
Center LL Defl	in	-0.002	-0.018
L/Defl Ratio		20,127.7	1,732.8
Center Total Defl	in	-0.002	-0.026
Location	ft	1.330	1.333
L/Defl Ratio		14,536.7	1,251.5

City of Portland
APPROVED
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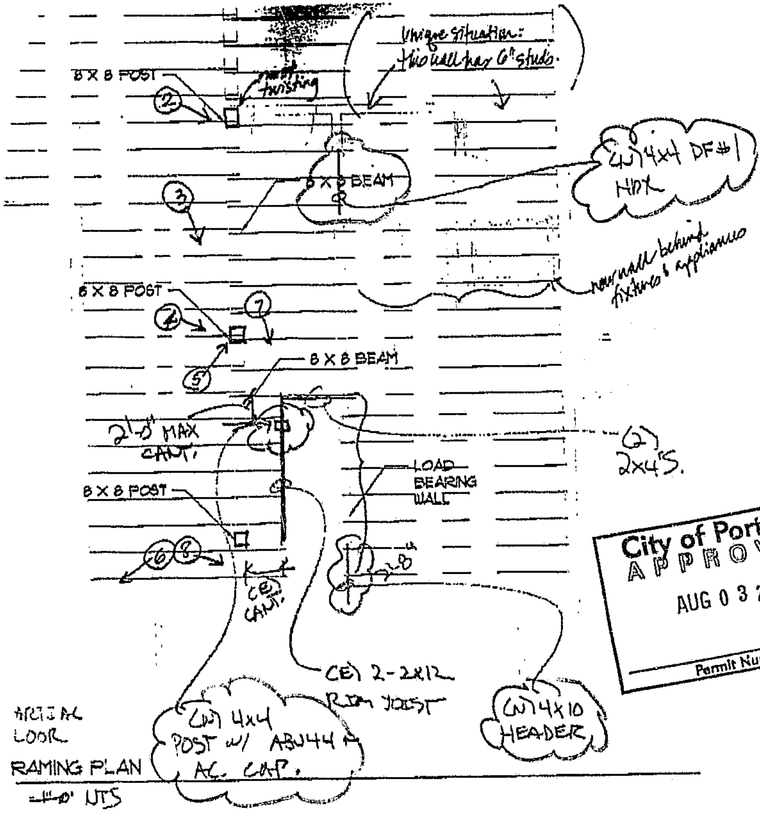


PARTIAL
FLOOR
FRAMING PLAN
=1'-0' NTS

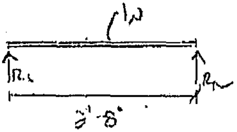
FIGURE 1

KILCULLEN
ENGINEERING, LLC
STRUCTURAL
3033 NORTH BURRAGE AVENUE, PORTLAND OREGON, 97217, TEL. (503) 493-2571, FAX: (503) 235-2777

JOB: 2613 SW Hamilton Court
CLIENT: Patti Buser-Hill, Arch JOB NO.: 04-001
DATE: March 2004 BY: CFK SHEET NO.:

MISC. CALCULATIONS

1) (N) HDR @ CLOSET BELOW STAIRS:



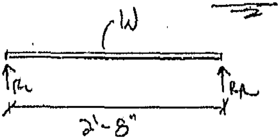
$W_{DL} = (10)(16/2) + (15)(16/2) = 200$ lb/ft

$LL = (40)(16/2) + (25)(16/2) = 520$ lb/ft

∴ 4 x 10 HDR OK.

(AT (E) BRG COND → NO FND MOD'S REQUIRED)

2) HDR @ LAUNDRY DOOR:
(NON BRG)



$W_{DL} = (10)(10/2) + (15)(10/2) = 125$ lb/ft

$LL = (40)(10/2) + (25)(10/2) = 325$ lb/ft

∴ 4x4 DF #1 HDR

KILCULLEN ENGINEERING, LLC
STRUCTURAL

JOB: 2613 SW Hamilton Court
CLIENT: Patti Buser-Hill, Arch JOB NO.: 04-001
DATE: March 2004 BY: CFK SHEET NO.: