

7175 NW Lathrop Lane

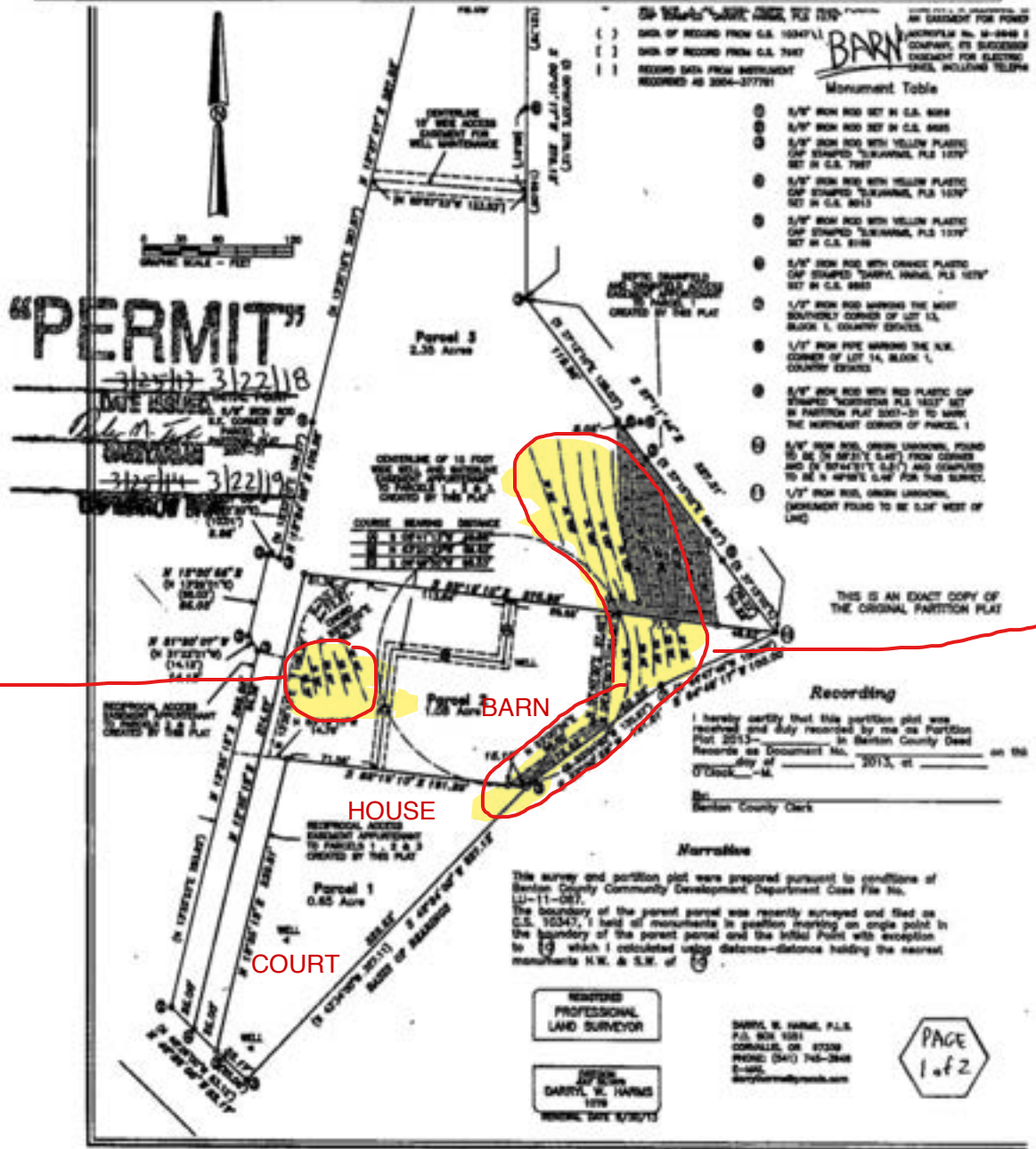
Report Portfolio
Septic
Well Log and Reports
Permits
Maintenance Agreements
Radon Test



**BENTON COUNTY ENVIRONMENTAL HEALTH
ON-SITE SEWAGE DISPOSAL SYSTEM PLOT PLAN**

SITE: _____
 PERMIT: 138-18-000027-Per
 TYPE: Major Alteration

Owner: Brad & Kristie Wakefield Date: 3/22/18
 Applicant: Same
 Assessor's Map and Tax Lot Numbers: T 11, R 5, Sec 1BC, TL 2300 Parcel: Parcel 2
 Site Address: 7175 NW Lathrop Lane, Corvallis, OR 97330 Scale: NTS



- Monument Table**
- ① 5/8" IRON ROD SET IN C.S. 8018
 - ② 5/8" IRON ROD SET IN C.S. 8015
 - ③ 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DARRYL HARMS, PLS 1079" SET IN C.S. 7987
 - ④ 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DARRYL HARMS, PLS 1079" SET IN C.S. 8015
 - ⑤ 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DARRYL HARMS, PLS 1079" SET IN C.S. 8118
 - ⑥ 5/8" IRON ROD WITH ORANGE PLASTIC CAP STAMPED "DARRYL HARMS, PLS 1079" SET IN C.S. 8015
 - ⑦ 1/2" IRON ROD MARKING THE WEST SOUTHWEST CORNER OF LOT 1A, BLOCK 1, COUNTRY ESTATES
 - ⑧ 1/2" IRON PIPE MARKING THE N.W. CORNER OF LOT 1A, BLOCK 1, COUNTRY ESTATES
 - ⑨ 5/8" IRON ROD WITH RED PLASTIC CAP STAMPED "DARRYL HARMS, PLS 1079" SET IN PARTITION PLAT 2207-21 TO MARK THE NORTHWEST CORNER OF PARCEL 1
 - ⑩ 5/8" IRON ROD, GREEN UNIFORM, FOUND TO BE IN 8047'S 0.47' FROM CORNER AND IN 8047'S 0.47' AND COMPARED TO BE IN 8047'S 0.47' FOR THIS SURVEY.
 - ⑪ 1/2" IRON ROD, GREEN UNIFORM, (MONUMENT FOUND TO BE 0.24' WEST OF LMG)

Septic Field for Barn

Septic Line runs along side of house (gravel space) out to drain field behind barn and neighboring property

Recording

I hereby certify that this partition plat was received and duly recorded by me as Partition Plat 2013-_____ in Benton County Deed Records as Document No. _____ on the _____ day of _____, 2013, at _____ o'clock _____ M.

By: _____
 Benton County Clerk

Narrative

This survey and partition plat was prepared pursuant to conditions of Benton County Community Development Department Case File No. 14-11-0811.

The boundary of the parent parcel was recently surveyed and tied as C.S. 10347, 1' line of monuments in position marking an angle point in the boundary of the parent parcel and the Initial Point with exception to ⑩ which I calculated using distance-distance holding the nearest monuments N.W. & S.E. of ⑩.

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

DARRYL W. HARMS
 1019
 BENTON DATE 3/20/13

DARRYL W. HARMS, P.L.S.
 P.O. BOX 1081
 CORVALLIS, OR 97330
 PHONE: (541) 748-2848
 E-mail: darryl@dmhll.com

PAGE
 1 of 2

BENT 55877

STATE OF OREGON
 WATER SUPPLY WELL REPORT
 (as required by ORS 537.765 & OAR 690-205-0210)

WELL I.D. LABEL# 130346
 START CARD # 215359
 ORIGINAL LOG # _____

(1) LAND OWNER Owner Well I.D. _____
 First Name Bradley / Kristie Last Name Wakefeld
 Company _____
 Address 7175 NW LATHROP LN
 City CONCORD State OR Zip 97330

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (complete 2a & 10) Abandonment (complete 5a)

(2a) PRE-ALTERATION
 Dia + From To Gauge Stl Plstc Wld Thrld
 Casing: _____
 Material From To Amt sacks/lbs
 Seal: _____

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other _____

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 178 ft.

BORE HOLE			SEAL			Amt sacks lbs
Dia	From	To	Material	From	To	
10	0	47	Cement	0	47	12
6	47	178				Calculated 12
						Calculated

How was seal placed: Method A B C D E
 Other _____
 Backfill placed from _____ ft. to _____ ft. Material _____
 Filter pack from _____ ft. to _____ ft. Material _____ Size _____
 Explosives used: Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
 Proposed Amount Pounds Actual Amount Pounds

(6) CASING/LINER
 Casing Liner Dia + From To Gauge Stl Plstc Wld Thrld
 6 1 1/2 47 250
 4 0 178 160
 Shoe Inside Outside Other Location of shoe(s) _____
 Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS Perforations Method 1/4 Rand Holes Drilled
 Screens Type _____ Material _____
 Perf/S Casing/Screen Dia From To Scrn/slot Slot # of Tele/
 creen (Liner) Dia From To width length slots pipe size
 4 58 178 1/4" H 600

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
 Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
15 _____ 175 _____ 1 _____

Temperature 58 °F Lab analysis Yes By _____
 Water quality concerns? Yes (describe below) TDS amount 100
 From To Description Amount Units

BENT 55877

(9) LOCATION OF WELL (legal description)
 County Denton Twp 11 N/S 5 E/W
 Sec 1 SW 1/4 of the SW 1/4 Tax Lot 2000
 Tax Map Number _____ Lot _____
 Lat _____ " or _____ DMS or DD
 Long _____ " or _____ DMS or DD
 Street address of well Nearest address

SAME

(10) STATIC WATER LEVEL
 Date SWL (psi) + SWL (ft)
 Existing Well / Pre-Alteration _____
 Completed Well 12-14-18 _____ 54
 Flowing Artesian? Dry Hole?

WATER BEARING ZONES Depth water was first found 160

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
12-14-18	160	163	15		54

(11) WELL LOG Ground Elevation _____

Material	From	To
Yellow Topsoil	0	4
Brown Shale (Soft)	4	23
Red Volcanic (Soft)	23	35
Blue Basalt (HARD)	35	160
Blue/Red Basalt (med)	160	163
Blue Basalt (HARD)	163	178

Date Started 12-13-18 Completed 12-14-18

(unbonded) Water Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number _____ Date _____
 Signed _____

(bonded) Water Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1753 Date 12-14-18
 Signed _____
 Contact Info (optional) _____



WATER QUALITY & FLOW TEST REPORT

190 W Church St. | PO Box 257 | Mt. Angel, OR 97362
 p 503.845.5225 | tf 866.873.1110 | f 503.845.5229
contact@shilohwater.com

Pump Test Data Sheet

Customer Name: Scott Barnes
 Mailing Address:
 Owner Name: Wakefiled
 Well Address: 7175 NW Lathrop Ln, Corvallis (pers)
 Well Depth: 178'
 Depth Pump Set: 170'
 Pump Information: 1 HP 10 gpm
 Start Time: 01:45

Tested by: Ridge Date: 10/11/2023
 Well ID#: L130346
 Static Water Level: 54'
 Well Diameter: 6"
 Standard: Pitless:
 Size of Drop Pipe: 1.25"
 Pressure Tank: 81 Gallon
 PWS number OR 41-

Drawdown Data

Time Since Pump Started	Depth to water from measure point	Depth to water from ground level	Flow Rate GPM	PSI	Comments
0 Mins			10	@ 50	
15 Mins			10	@ 50	
30 Mins			10	@ 50	
45 Mins			9.5	@ 50	
60 Mins			9.5	@ 50	
75 Mins			9.5	@ 50	
90 Mins			9.5	@ 50	
105 Mins			9.5	@ 50	
120 Mins			9.5	@ 50	
135 Mins				@	
150 Mins				@	
165 Mins				@	
180 Mins				@	
195 Mins				@	
210 Mins				@	
225 Mins				@	
240 Mins				@	

Water Quality Mineral Analysis

Iron 0.3
 pH 7.0
 Hardness 5.0
 TDS 180

Chlorine _____
 Manganese _____
 Sulphur _____

Notes:

Pump yields approximately 9.5 gallons per minute. Well probe ganging up on wire down well, not able to measure static levels.





WATER QUALITY & FLOW TEST REPORT

190 W Church St. | PO Box 257 | Mt. Angel, OR 97362
 p 503.845.5225 | tf 866.873.1110 | f 503.845.5229
contact@shilohwater.com

Pump Test Data Sheet

Customer Name: Scott Barnes
 Mailing Address:
 Owner Name: Wakefield
 Well Address: Shared Well at 7175 Lathrop Prop
 Well Depth: 305'
 Depth Pump Set:
 Pump Information:
 Start Time: 01:05

Tested by: Ridge Date: 10/11/2023
 Well ID#: L106720
 Static Water Level: 64'
 Well Diameter: 6"
 Standard: ✓ Pitless:
 Size of Drop Pipe: 1.25"
 Pressure Tank: WX-201
 PWS number OR 41-

Drawdown Data

Time Since Pump Started	Depth to water from measure point	Depth to water from ground level	Flow Rate GPM	PSI	Comments
0 Mins	64'		20	@ 70	
15 Mins	78'		18.5	@ 70	
30 Mins	84'		18.5	@ 70	
45 Mins	89'		18.5	@ 70	
60 Mins	94'		18.5	@ 70	
75 Mins	104'		18	@ 70	
90 Mins	109'		17.5	@ 70	
105 Mins	-		17.5	@ 70	
120 Mins	-		17.5	@ 70	
135 Mins				@	
150 Mins				@	
165 Mins				@	
180 Mins				@	
195 Mins				@	
210 Mins				@	
225 Mins				@	
240 Mins				@	

Water Quality Mineral Analysis

Iron .3
 pH 7.5
 Hardness 5
 TDS 170

Chlorine _____
 Manganese _____
 Sulphur _____

Notes:

Pump yields approximately 17.5 gallons per minutes. Well probe hung up at about 110', not able to probe past obstruction.





Burlington, WA Corporate Laboratory (a)
 1670 S Walnut St - Burlington, WA 98225 - 800.755.9295 - 360.757.1400
Bellingham, WA Microbiology (b)
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.755.1232

Portland, OR Microbiology/Chemistry (c)
 9225 SW Chinawood Ct Ste #2 - Wilsonville, OR 97150 - 503.657.7800
Corvallis, OR Microbiology/Chemistry (d)
 1100 HL Cards Blvd Ste 100 - Corvallis, OR 97331 - 541.755.4545
Bend, OR Microbiology (e)
 70332 Emory Blvd Ste 4 - Bend, OR 97701 - 541.539.8425



Drinking Water Report

Client Name: Shiloh Water Systems, Inc.
 190 West Church St
 Mt. Angel, OR 97362

Reference Number: 23-31521

Report Date: 10/17/23

Approved By: anp,pap,smv

Authorized by:

Thanh B Phan
 Lab Manager, Portland

Project: Barnes, Scott
Field ID: Shared Well - Test Tap
Sample Description: 7175 Northwest Lathrop Lane, Corvallis, OR 973
Sample Date: 10/11/23 13:08

Lab Number: OR100063-62804

Date Received: 10/12/23

Sampled By: Ridge

Sampler Phone:

CAS Number	Analyte	Result	MCL	Pass [^]	Lab	QL	Units	Analyzed
Coli-To-t	TOTAL COLIFORM	Absent		Pass	c	P/A	per 100m	10/13/23
68583-22-2	E. Coli	Absent		Pass	c	Y/N	per 100m	10/13/23
7440-38-2	ARSENIC	ND	0.010	Pass	a	0.001	mg/L	10/16/23
14797-55-8	NITRATE-N	4.01	10	Pass	c	0.005	mg/L	10/12/23

Notation:

MCL - Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA; Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper. Sodium has a recommended limit of 20 mg/L. A blank MCL value indicates a level is not currently established.
 QL - Quantitation Limit is the lower calibration concentration.
 ND = Not detected above the listed specified reporting limit (QL).

CAS Number = Chemical Abstract Service Number is a unique identifier of the chemical tested.

[^] = 'PASS', indicates that the parameter tested meets EPA, State, or local jurisdiction MCL. 'Exceeds' indicates EPA secondary limit (Aesthetic) was exceeded. 'Fail' indicates EPA Primary limit (Health) was exceeded.
 An * in front of the parameter name indicates it is not NELAP accredited but it is accredited through OR DEQ or USEPA Region 10.

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.
 If you have any questions concerning this report contact Thanh B Phan at the above phone number.



Burlington, WA Corporate Laboratory (a)
1620 S Walnut St - Burlington, WA 98225 - 800 755 8285 - 360 757 1400

Bellingham, WA Microbiology (b)
805 Orchard Rd Ste 4 - Bellingham, WA 98225 - 360 715 1212

Portland, OR Microbiology/Chemistry (c)
8725 SW Commerce Cr Ste A2 - Vancouver, OR 97070 - 503 582 7892

Corvallis, OR Microbiology/Chemistry (d)
1107 NE Circle Blvd Ste 130 - Corvallis, OR 97330 - 541 753 4845

Bend, OR Microbiology (e)
20357 Empire Blvd Ste 4 - Bend, OR 97701 - 541 339 8475



Drinking Water Report

Client Name: Shiloh Water Systems, Inc.
190 West Church St
Mt. Angel, OR 97362

Reference Number: **23-31521**

Report Date: 10/17/23

Approved By: anp,pap,smv

Authorized by:

Thanh B Phan
Lab Manager, Portland

Project: Barnes, Scott
Field ID: Personal Well - Test Tap
Sample Description: 7175 Northwest Lathrop Lane, Corvallis, OR 973
Sample Date: 10/11/23 13:05

Lab Number: OR100063-62803

Date Received: 10/12/23

Sampled By: Ridge

Sampler Phone:

CAS Number	Analyte	Result	MCL	Pass ^A	Lab	QL	Units	Analyzed
Coli-To-1	TOTAL COLIFORM	Absent		Pass	c	P/A	per 100m	10/13/23
68583-22-2	E. Coli	Absent		Pass	c	Y/N	per 100m	10/13/23
7440-38-2	ARSENIC	ND	0.010	Pass	a	0.001	mg/L	10/16/23
14797-55-8	NITRATE-N	4.00	10	Pass	c	0.005	mg/L	10/12/23

Notation:

MCL - Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA; Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper. Sodium has a recommended limit of 20 mg/L. A blank MCL value indicates a level is not currently established.

QL - Quantitation Limit is the lower calibration concentration.

ND = Not detected above the listed specified reporting limit (QL).

CAS Number = Chemical Abstract Service Number is a unique identifier of the chemical tested.

^A = "PASS", indicates that the parameter tested meets EPA, State, or local jurisdiction MCL. "Exceeds" indicates EPA secondary limit (Aesthetic) was exceeded. "Fail" indicates EPA Primary limit (Health) was exceeded. An * in front of the parameter name indicates it is not NELAP accredited but it is accredited through OR DEQ or USEPA Region 10.

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples. If you have any questions concerning this report contact Thanh B Phan at the above phone number.

HOUSE



www.co.benton.or.us

Inspection Summary Report

Residential 1 & 2 Fam Dwelling (New Only)
Permit #: 138-B1500411

BENTON COUNTY
Building Division
360 SW Avery Ave.
Corvallis, OR 97333
Phone: 541-766-6819
Fax: 541-766-6891

building@co.benton.or.us

Applicant: IRON MOUNTAIN HOMES LLC
Owner: WAKEFIELD BRADLEY T & KRISTIE C, BAINBRIDGE ISLAND, WA, 98110, KNUTSON MARK D & KRISTIN L, 1669 WOODED KNOLLS DR, PHILOMATH, OR, 97370
Address: IVR # 138900021022

Parcel: 11501BC02000

Inspection Type: 1110 Footing
Inspection Date: 05/28/2015
Inspector: dwl
Inspection Result: Approved
Comments: 1. Missing 50 in sq. by 12 inches deep pad on north side of garage. 2. Dig out expanded footings required to be min. 12 inches deep. Will check at stemwall. Exteriors ok to pour as noted

Inspection Type: 1130 Foundation Wall/Rebar
Inspection Date: 06/02/2015
Inspector: dwl
Inspection Result: Approved
Comments: Stemwall and interior footings approved

Inspection Type: 1220 Underfloor framing
Inspection Date: 06/22/2015
Inspector: DWL
Inspection Result: Approved
Comments: APPROVED

Inspection Type: 1260 Framing
Inspection Date: 11/19/2015
Inspector: dwl
Inspection Result: Denied
Comments: 1. Bathroom exhaust still not complete. 2. Gas test on complete. Call for reinspection

Inspection Type: 1260 Framing
Inspection Date: 11/12/2015
Inspector: RPD
Inspection Result: Denied
Comments: 1. Address post size and location of bearing for 5 1/8 x 16 1/2 inch glu lam in great room. Not as per plan. 2. Post to beam connections require simpson cap/base connector. See framing notes in plans.

Inspection Type: 1460 Insulation
Inspection Date: 11/18/2015
Inspector: dwl
Inspection Result: Approved
Comments: approved. Still need to look at past corrections

Inspection Summary Report (continued)

Residential 1 & 2 Fam Dwelling (New Only)

Permit #: 138-B1500411

Applicant: IRON MOUNTAIN HOMES LLC

IVR # 138900021022

Owner: WAKEFIELD BRADLEY T & KRISTIE C, BAINBRIDGE ISLAND, WA, 98110,KNUTSON MARK D &

KRISTIN L, 1669 WOODED KNOLLS DR, PHILOMATH, OR, 97370

Address:

Parcel: 11501BC02000

Inspection Type: 2255 Gas Pressure Test

Inspection Date: 11/24/2015

Inspector: RPD

Inspection Result: Denied

Comments: Correction not completed

Inspection Type: 2255 Gas Pressure Test

Inspection Date: 11/19/2015

Inspector: dwl

Inspection Result: Denied

Comments: 1. system dropped 4 psi in 20 minutes. Call for reinspection

Inspection Type: 2255 Gas Pressure Test

Inspection Date: 11/16/2015

Inspector: dwl

Inspection Result: Denied

Comments: 1. No test on system. Left message with general contractor

Inspection Type: 2255 Gas Pressure Test

Inspection Date: 11/12/2015

Inspector: RPD

Inspection Result: Denied

Comments: No test on system

Inspection Type: 2300 Rough Mechanical

Inspection Date: 11/25/2015

Inspector: RPD

Inspection Result: Approved

Comments: Correction completed

Inspection Type: 2300 Rough Mechanical

Inspection Date: 11/24/2015

Inspector: RPD

Inspection Result: Denied

Comments: Corrections not completed

Inspection Type: 2300 Rough Mechanical

Inspection Date: 11/19/2015

Inspector: dwl

Inspection Result: Denied

Comments: 1. Bathroom exhaust still not complete. 2. Gas test on complete.Call for reinspection

Inspection Summary Report (continued)

Residential 1 & 2 Fam Dwelling (New Only)

Permit #: 138-B1500411

Applicant: IRON MOUNTAIN HOMES LLC

IVR # 138900021022

Owner: WAKEFIELD BRADLEY T & KRISTIE C, BAINBRIDGE ISLAND, WA, 98110, KNUTSON MARK D & KRISTIN L, 1669 WOODED KNOLLS DR, PHILOMATH, OR, 97370

Address:

Parcel: 11501BC02000

Inspection Type: 3650 Shower Pan

Inspection Date: 03/02/2016

Inspector: FD

Inspection Result: Approved

Comments: APPROVE UPSTAIRS N.W MASTER SHOWER PAN.

Inspection Type: 3990 Final Plumbing - Partial

Inspection Date: 06/17/2016

Inspector: Daryl Long

Inspection Result: Approved

Comments:

Inspection Type: 3990 Final Plumbing - Partial

Inspection Date: 06/16/2016

Inspector: Daryl Long

Inspection Result: Not Ready

Comments: Final inspection not ready. Please address punch list and then call for reinspection when ready

Schedule Inspections online at: www.buildingpermits.oregon.gov

or by calling: 1-888-299-2821

Use IVR # 138900021022



COMMUNITY DEVELOPMENT DEPARTMENT
 360 SW Avery Avenue
 Corvallis, OR 97333-1192
 (541) 766-6819
 Fax (541) 766-6891

ROUTING SLIP

PERMIT NUMBER: B1500411

Type of Permit: New SFD Detached

Type of Building: (Y) Residential (N) Commercial

Stories: 2 Total Sq. Ft.: 6444 Number Bedrooms: 4 Housing Units: 1

Work Description: SINGLE FAMILY DWELLING REPLACEMENT

Finalled:

Applied Date: 04/20/2015

Issued Date:

Status: APPLIED

Public: N

Date

Owners Name: KNUTSON MARK D & KRISTIN L Home Phone:

Site Address: Alternate Phone:

Contact Name:

Mailing Address: PETERSON NEAL L & JOHANNA L, TR Contact Phone:
 1669 WOODED KNOLLS DR
 PHILOMATH, OR 97370

Prop Serial Number: 420970 Township/Range/Section/Lot: 11501BC02000

Valuation: \$617,410.29 Zone: RR-2 Flood Plain: NO

Minimum Required Setbacks:

Roads: 0 R-O-W/Front: 0 Side1: 0 Side2: 0 Rear: 0 Stream: 0

Contractor: IRON MOUNTAIN HOMES LLC Phone: 541-760-7751

Address: MARK KNUTSON CCB#: 176619

1669 WOODED KNOLLS DR
 PHILOMATH OR 97370

Permit Fees:

Fee Description	Total Fee	Total Paid	Balance Due
Development Review	47.00	47.00	.00
EH Building Sign Off	70.00	70.00	.00
Plan Check-Building	2,170.60	2,170.60	.00
Zoning Compliance	71.00	71.00	.00
Balance Due			\$0.00

Signature: 



COMMUNITY DEVELOPMENT DEPARTMENT

**360 SW Avery Avenue
Corvallis, OR 97333-1192
(541) 766-6819
Fax (541) 766-6891**

New
ROUTING SLIP

Applied Date: 04/20/2015

PERMIT NUMBER: B1500411

Issued Date:

Type of Permit: New SFD Detached

Status: APPLIED

Type of Building: (Y) Residential (N) Commercial

Public: N

Stories: 2 Total Sq. Ft.: 6444 Number Bedrooms: 4 Housing Units: 1

Work Description: SINGLE FAMILY DWELLING REPLACEMENT

Date

Finalled:

Owners Name: WAKEFIELD BRADLEY T & KRISTIE C Home Phone: 206-954-3828

Site Address: Alternate Phone:

Contact Name:

**Mailing Address: 8784 NE ODDFELLOWS RD
BAINBRIDGE ISLAND, WA
98110**

Contact Phone:

Prop Serial Number: 420970 Township/Range/Section/Lot: 11501BC02000

Valuation: \$617,410.29 Zone: RR-2 Flood Plain: NO

Minimum Required Setbacks:

Roads: 0 R-O-W/Front: 0 Side1: 0 Side2: 0 Rear: 0 Stream: 0

Contractor: IRON MOUNTAIN HOMES LLC Phone: 541-760-7751

**Address: MARK KNUTSON
1669 WOODED KNOLLS DR
PHILOMATH OR 97370**

CCB#: 176619

Permit Fees:

Fee Description	Total Fee	Total Paid	Balance Due
Development Review	47.00	47.00	.00
EH Building Sign Off	70.00	70.00	.00
Plan Check-Building	2,170.60	2,170.60	.00
Zoning Compliance	71.00	71.00	.00
Balance Due			\$0.00

Signature: _____



Residential Certificate of Lighting Fixtures

Benton County Community Development

Building Division

360 SW Avery Ave

Corvallis OR 97333

Phone: 541-766-6819 Fax: 541-766-6891

Web: www.co.benton.or.us

You must submit this form to the Building Division before issuance of the Certificate of Occupancy.

To conform with to the Oregon Residential Specialty Code (ORSC), Section N1107.2, I am notifying the building official that a minimum of 50 percent of the permanently installed lighting fixtures are compact or linear fluorescent or minimum efficacy of 40 lumens per watt.

Additional Measures (check if applicable):

To conform with Section N1101.1, additional measure "D" or "E" was selected. I am notifying the building official that a minimum of 75 percent of the permanently installed lighting fixtures are compact or linear florescent or minimum efficacy of 40 lumens per watt.

To conform with Section N1101.1, additional measure 2 was selected. I am notifying the building official that a minimum of 65 percent of the permanently install lighting fixtures are compact of linear florescent, or minimum efficacy of 40 lumens.

Date: 6/20/2016

Building permit number: B1500411

Owner's name: Brad Wakefield

Job address: 7175 NW Lathrop Lane State: OR Zip: 97330
Corvallis OR

General Contractor/owner signature: Mark Knutson

Printed name: Mark Knutson



RECEIVED

JUN 20 2016

By BP

COMMUNITY DEVELOPMENT DEPARTMENT

360 SW Avery Avenue
Corvallis, OR 97333-1192
(541) 766-6819
FAX (541) 766-6891

You must submit this contractor information list to Benton County prior to framing to receive your Final Inspection and Certificate of Occupancy.

To conform to the Oregon Residential Specialty Code (ORSC), Section R110, I am notifying the building official that the following list of contractors worked on this job:

Date: 6-20-2016
Building permit number: B1500411
Owner's name: Wakefield
Job Address: 7115 NW Lathrop Lane Corvallis

General contractor name: _____
CCB license number: _____
Address: _____

Mechanical contractor name: _____
CCB license number: _____
Address: _____

Plumbing contractor name: _____
CCB license number: _____
Address: _____

Electrical Permit number: _____
Electrical contractor name: _____
CCB license number: _____
Address: _____

General contractor/owner signature: [Signature]
Printed name: Mark Knutson

*Does the home contain an Automatic Fire Sprinkler System that is required to be maintained?
 Yes or No



Parcel #1 (House site)
Wakefield

ENVIRONMENTAL HEALTH DIVISION
Health Department
PO Box 579
530 NW 27th Street
Corvallis OR 97339-0579

(541) 766-6841 FAX (541) 766-6248 TTY (541) 766-6835 www.co.benton.or.us

ALTERATION PERMIT ON-SITE SEWAGE DISPOSAL SYSTEM

03/25/2013

KNUTSON MARK & KRISTIN

1669 WOODED KNOLLS DR
PHILOMATH, OR 97370

Water Source: Private Well

Map & Tax Lot #: 11501BC00600 Temp Parcel: 1 Permit #: SW130002 Issued: 03/25/2013 Expires: 03/25/2014
Use: Septic Alteration Design flow capacity (gpd): 450 Number of bedrooms: 4

CONSTRUCTION REQUIREMENTS

Initial System Requirements

Type of system: ATT Delta Whitewater)
Tank Size: 1500 gallons
Disposal Trench Length: 175 feet
Minimum Trench Depth: 24 inches
Maximum Trench Depth: 24 inches
Cap Depth: 0 inches
Trench Width: 24 inches
Media Depth: 12 inches

Curtain Drain: None

Replacement System Requirements

Type of system: ATT (Delta Whitewater)
Tank Size: 1500 gallons
Disposal Trench Length: 175 feet
Minimum Trench Depth 24 inches
Maximum Trench Depth: 24 inches
Cap Depth: 0 inches
Trench Width: 24 inches
Media Depth: 12 inches

1: This major Alteration Permit is for the installation of an Alternative Treatment Technology (ATT) system to serve a replacement dwelling under proposed land partition LU-11-067. All requirements of OAR 340-71 & 73 apply. Maintain all Oregon Department of Environmental Quality (ODEQ) required setbacks.

2: The drainfield is located within a septic easement on Parcel 3 to serve a dwelling on Parcel 1. The septic easement shall be monumented upon recording of the partition plat.

3: The owner of an ATT system must maintain a contract with a maintenance provider certified by the manufacturer to serve and maintain the onsite system. A service contract must be entered before the system is installed and must be maintained until the system is decommissioned. A single service contract and maintenance provider for both the ATT and the other components is preferable to multiple contracts for maintenance providers.

4: The homeowner and maintenance provider must comply with all requirements of OAR 340-71-345(14) Service Contracts. The maintenance provider must submit an annual report evaluation and fee to Benton County Environmental Department as defined by OAR 340-71-140(3)(k)(B).

5: Before transferring ownership of real estate served by an onsite system using alternative treatment technology, the seller must have the system evaluated in accordance with OAR 340-71-131.



**BENTON COUNTY ENVIRONMENTAL HEALTH
ON-SITE SEWAGE DISPOSAL SYSTEM PLOT PLAN**

SITE #: _____
 PERMIT #: SW130002
 TYPE: Major Alteration

Owner: Mark Knutson Date: 3/25/13
 Applicant: Groundhog, LLC
 Assessor's Map and Tax Lot Numbers: T 11, R 5, Sec 1BC, TL 600
 Site Address: 7175 Lathrop Lane, Corvallis, OR 97330

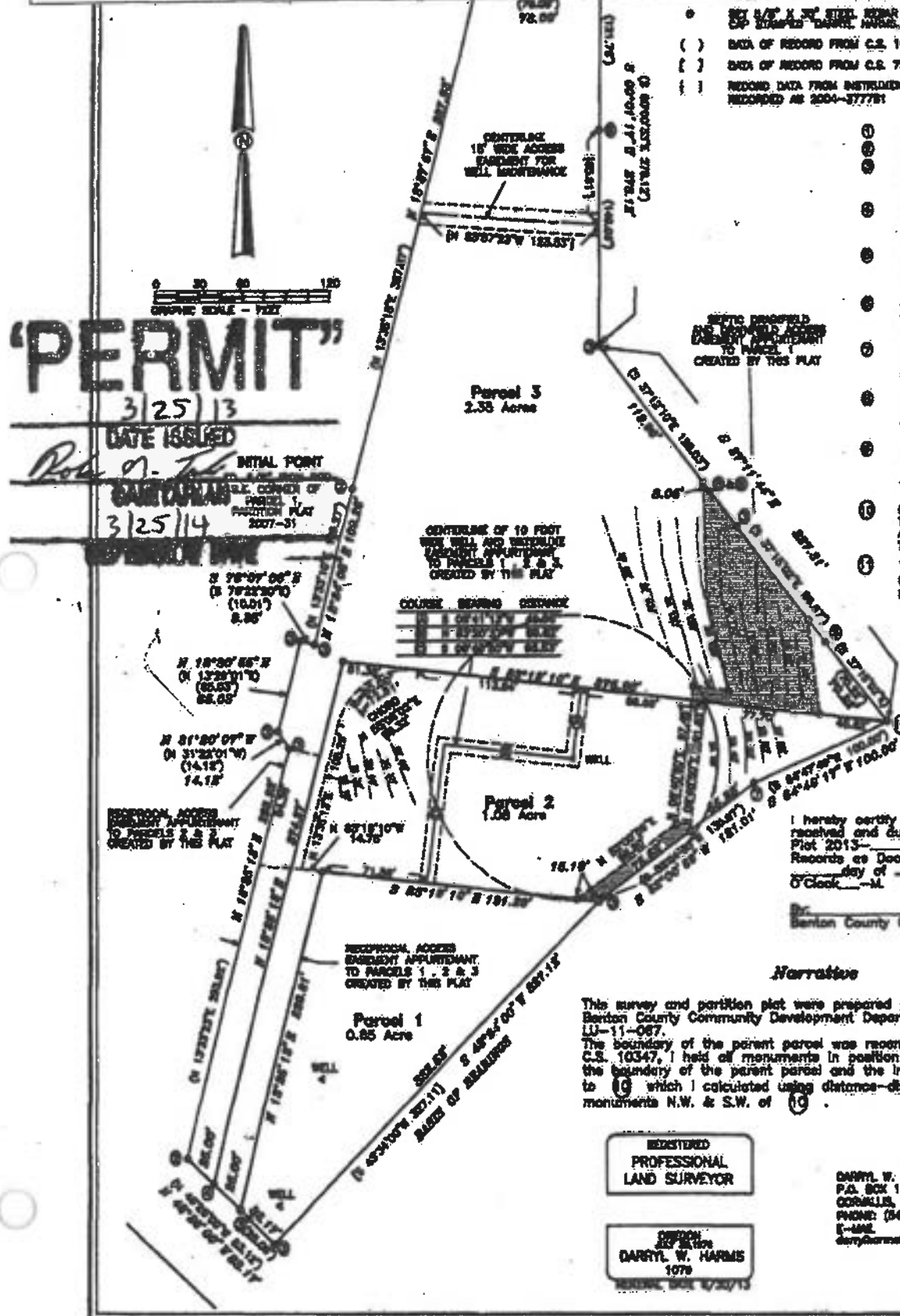
Parcel: 1
 Scale: NTS

DEED BOOK 114, PAGE 7
 COMPANY, A DELAWARE C
 AN EASEMENT FOR POWER
 MICROFILM No. M-6848 I
 COMPANY, ITS SUCCESSOR
 EASEMENT FOR ELECTRIC
 LINES, INCLUDING TELEPH

- SET 5/8" X 24" IRON ROD WITH BLUE PLASTIC CAP STAMPED "DANNYL HARMS, PLS 1079"
- () END OF RECORD FROM C.S. 10347
- () END OF RECORD FROM C.S. 7987
- () RECORD DATA FROM INSTRUMENT RECORDED AS 2004-377781

Monument Table

- ① 5/8" IRON ROD SET IN C.S. 6088
- ② 5/8" IRON ROD SET IN C.S. 6888
- ③ 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DANNYL HARMS, PLS 1079" SET IN C.S. 7987
- ④ 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DANNYL HARMS, PLS 1079" SET IN C.S. 8013
- ⑤ 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "DANNYL HARMS, PLS 1079" SET IN C.S. 8189
- ⑥ 5/8" IRON ROD WITH ORANGE PLASTIC CAP STAMPED "DANNYL HARMS, PLS 1079" SET IN C.S. 8803
- ⑦ 1/2" IRON ROD MARKING THE MOST SOUTHERLY CORNER OF LOT 13, BLOCK 1, COUNTRY ESTATES.
- ⑧ 1/2" IRON ROD MARKING THE N.W. CORNER OF LOT 14, BLOCK 1, COUNTRY ESTATES.
- ⑨ 5/8" IRON ROD WITH RED PLASTIC CAP STAMPED "NORTHSTAR PLS 1883" SET IN PARTITION PLAT 2007-31 TO MARK THE NORTHWEST CORNER OF PARCEL 1.
- ⑩ 5/8" IRON ROD, GREEN UNKNOWN, FOUND TO BE IN 82°31' 0.45" FROM CORNER AND IN 80°44' 31" 0.51" AND COMPUTED TO BE N 40°08' 0.46" FOR THIS SURVEY.
- ⑪ 1/2" IRON ROD, GREEN UNKNOWN, (MONUMENT FOUND TO BE 0.25' WEST OF LINE)



'PERMIT'
 3/25/13
 DATE ISSUED
 Rob J. Tol
 SARTORIUS
 3/25/14

THIS IS AN EXACT COPY OF THE ORIGINAL PARTITION PLAT

Recording

I hereby certify that this partition plat was received and duly recorded by me as Partition Plat 2013- in Benton County Deed Records as Document No. _____ on the _____ day of _____, 2013, at _____ o'clock _____ M.

Benton County Clerk

Narrative

This survey and partition plat were prepared pursuant to conditions of Benton County Community Development Department Case File No. LU-11-067. The boundary of the parent parcel was recently surveyed and filed on C.S. 10347, I held all monuments in position marking an angle point in the boundary of the parent parcel and the initial Point with exception to ⑩ which I calculated using distance-distance holding the nearest monuments N.W. & S.W. of ⑩.

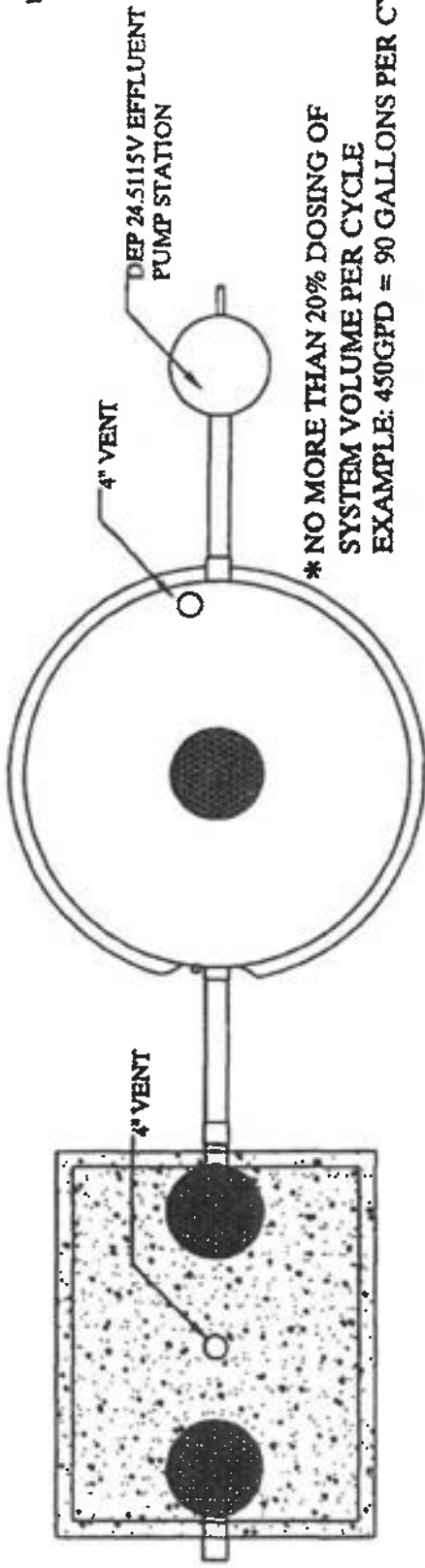
REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

DANNYL W. HARMS
 1079

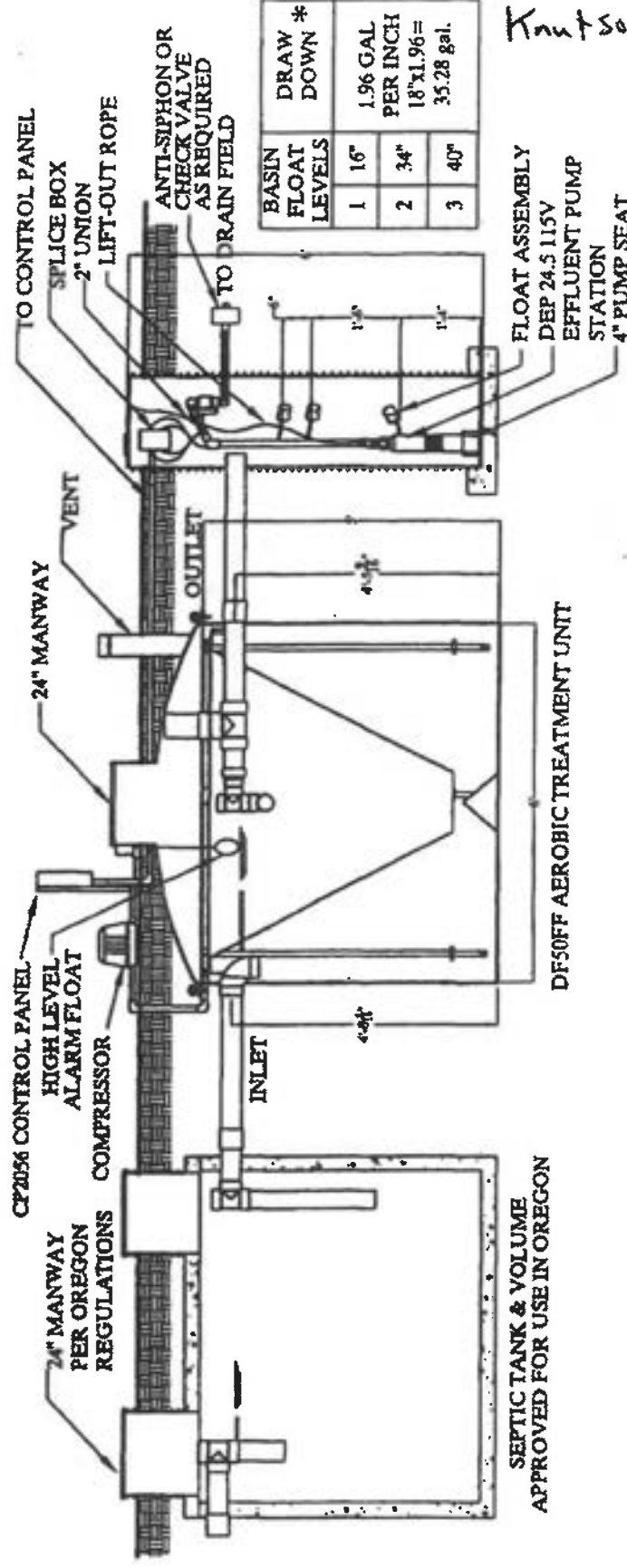
DANNYL W. HARMS, P.L.S.
 P.O. BOX 1081
 CORVALLIS, OR 97330
 PHONE: (541) 745-3648
 E-MAIL: darryl@harmssurvey.com

PAGE
 1 of 2

SW130002 02 04



* NO MORE THAN 20% DOSING OF SYSTEM VOLUME PER CYCLE
 EXAMPLE: 450GPD = 90 GALLONS PER CYCLE.



BASIN FLOAT LEVELS	DRAW DOWN *
1 16"	1.96 GAL PER INCH
2 34"	18" x 1.96 = 35.28 gal.
3 40"	

Kestler

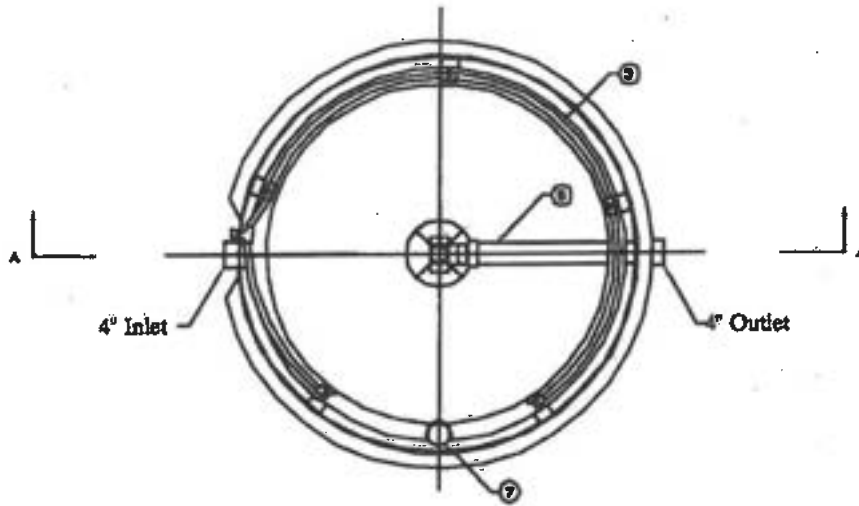
*NOTE: ALL EXTERIOR PIPE SIZE AS PER OREGON REQUIREMENTS
 *NOTE: THE VOLUME OF THE SEPTIC TANK WILL BE AS REQUIRED IN OAR 340-071-220(3)

DELTA WHITE WATER 500GPD UNIT W/ OREGON APPROVED SEPTIC TANK & DEP24.5115V HIGH HEAD PUMP STATION

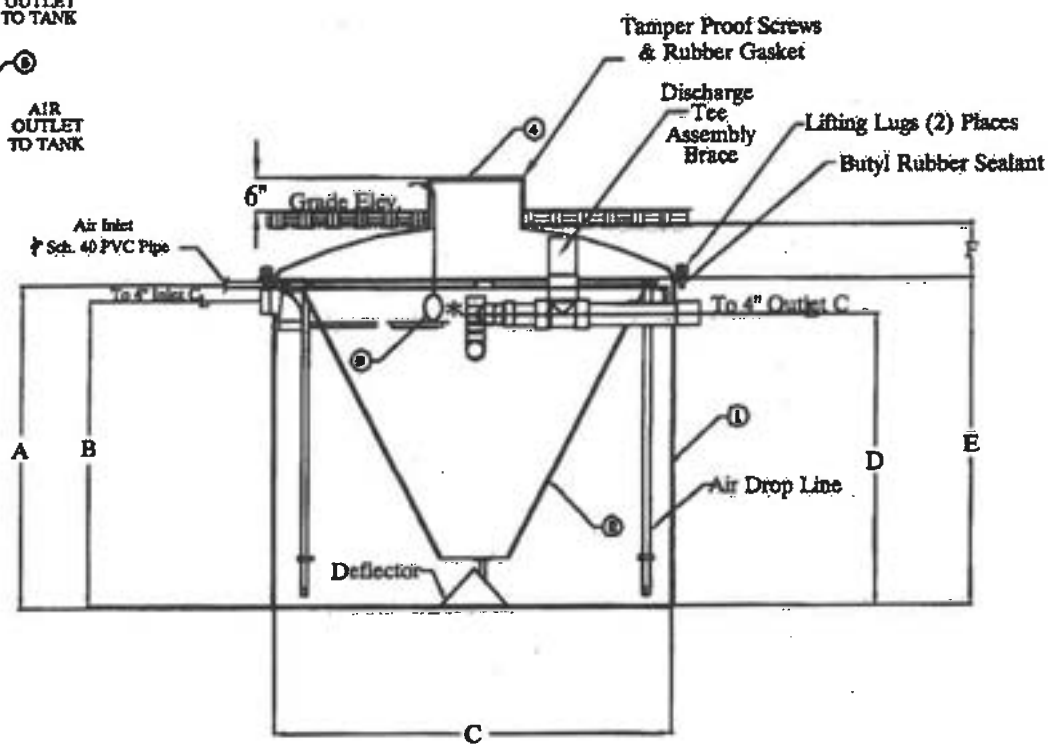
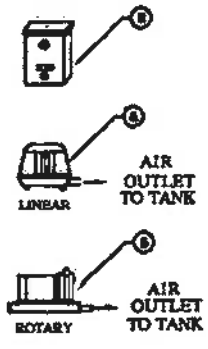
DELTA ENVIRONMENTAL PRODUCTS, INC.
 P. O. BOX 969 DENHAM SPRINGS, LA 70727

DWN BY: BLANDRY DATE: 08/19/85 SCALE: N.T.S. DWG. NO.: DEP248A

CONFIGURATION 1



Plan View
(with cover removed)



Section A-A

* HIGH LEVEL FLOAT NOT REQUIRED
WHEN USING CP22 SERIES CONTROL PANELS



Delta Environmental Products
P.O. Box 969 Denham Springs, LA 70727

WASTEWATER TREATMENT UNITS
MODEL DFXX-FF

DWNBY: C.RACHAL	DATE: 4/16/07	SCALE: N.T.S.	DWG. NO.: CRT603
--------------------	------------------	------------------	---------------------

Pump Curve

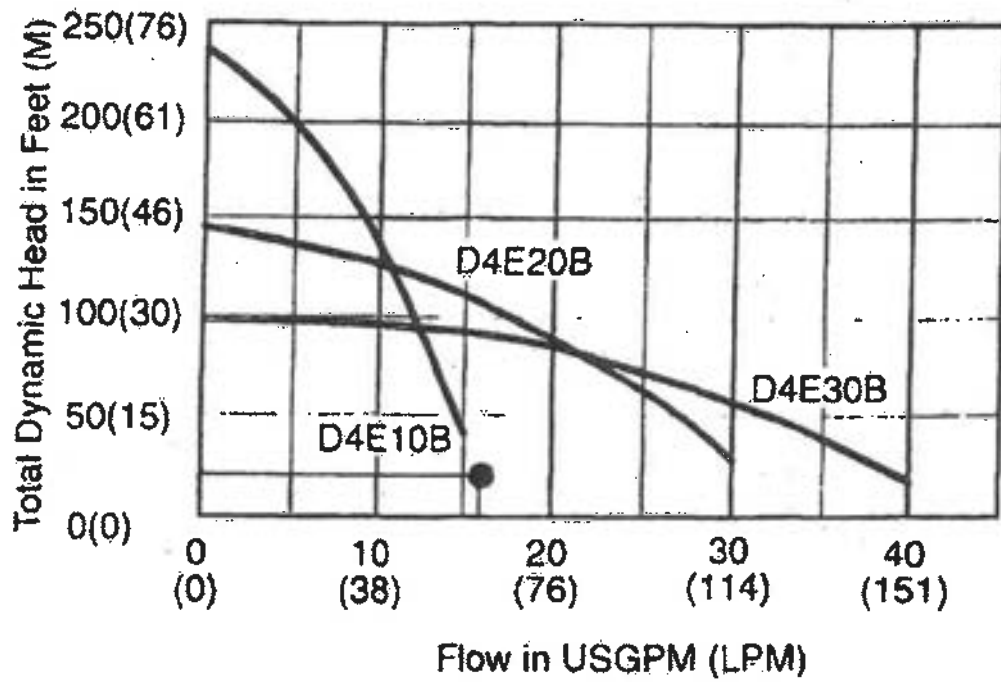


Figure 2: Performance in Feet of Head at Gallons per Minute (M@LPM).

- N Structure (other than a dwelling, that has parking requirements under B 91.605 - 91.665? Y → Apply BCC 91.605 - 91.665..... Requirements met
- N Is the proposed structure w/in 50' of FEMA floodplain? Y → FP review (TL) Completed
 Conditions (CSF501, 501MH, 502, 504,). Added
- N Is property inside the Corvallis UGB? Y → Use Corvallis Urban Fringe Checklist..... Completed
- N FBB Blue Zone? Y → Survey completed OR Certificate of Inclusion signed Date: _____
- N Is the proposed structure in or w/in 20' of BPA easement? Y → Notify BPA..... Completed
- N Wetland on the property? Y → Notify DSL (BCC 99.225) Sent (date): _____
 NWI Map (list below) Philomath UGB: paper map. Planning file ('90 or later subdiv) Corvallis UGB GIS Wetland Explorer
 Cond. CSF527 Added
 Notes: _____ Entered into Permits Plus
- N Is building, driveway, septic, etc. likely to disturb 1 acre or more of land? Y → Add CSF524
 (requires applicant to obtain 1200C Permit from DEQ). ESC Permit Req'd

Soil Type:	SHRINK-SWELL	EROSION	LANDSLIDE	SLOPE
JOD	Low-mod	mod	Low	Low
	High? <input checked="" type="checkbox"/> N <input type="checkbox"/> Y	High? <input checked="" type="checkbox"/> N <input type="checkbox"/> Y	High/Existing? <input checked="" type="checkbox"/> N <input type="checkbox"/> Y	High/Very High? <input checked="" type="checkbox"/> N <input type="checkbox"/> Y

If yes to any of these, except erosion or high shrink-swell for M.D., consult with Building Official. If pole bldg., give to D.L. Steps taken: _____

Mitigation measures are listed in BCC 99.110 and 99.115. Add relevant conditions of approval:
 CSF526 (shrink-swell (except M.D.), slide, slope) CSF525 (erosion, slope) CMH032 (high shrink-swell for Manf Dwl.)

- N Airport Overlay? Y → Dist to nearest runway: _____ Consult Ch 86. Covenant required in some portions of T 12S R 5W Sects 15, 16, 20-22, 26-28, 33, 34 and T 13S R 5W Sections 3, 4. Req's met
- N Willamette River/Greenway Management Overlay? Y → Consult Chapter 84. Req's met
 (Non-water dependent building setback is 75' and dwellings are Conditional Uses.)
- N Is the structure a Historic Resource? Y → Consult Chapter 89..... Req's met
- N in Philomath UGB & along Marys River? Y → Apply condition CSF117... Added
- N Identified Benton County Riparian? Y → Provide handouts & notified Adam S... Complete
- N SHPO: Site w/in 300m. (984 ft.) of a mir waterway? Y → Added Comm & Insp note in Permits Plus Add CSF538
 Add comment to Plot Plan
- *Specifically: Willamette River, Marys River, Long Tom River, Muddy Creek, Soap Creek, and South Fork.

Old Permits/Special Restrictions: Check land use & permit history:

Spec Prop	Prop Res	Permits Plus	Wintrate	Ascend
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Permit Number	Description
LU-11-067	Partition
SW130002	As-built
Parent Parcel	11-5-1BC-600
2013-5DSD40	Covenant restricting access to 'Lathrop Lane'
DIS00026	Demo of 1973 MH dwelling removed in 2013 or 2014.
Ascend	Shows property as vacant and unassigned

Planning Sign Off: (Plot Plans, Covenants, Conditional Uses, etc) <i>Juszy Godwin</i>	Date Approved: <u>5/11/15</u> Comments:
Environmental Health Sign Off: (Septic) <i>Gordon Brown via P.P.</i>	Date Approved: <u>5/22/15</u> Comments:
Public Works Sign Off: (Water) <i>NA</i>	Date Approved: Comments:
Public Works Sign Off: (Road Approach)	Date Approved: Comments:
Public Works Sign Off: (Road Improvements) <i>W</i>	Date Approved: <u>4/22/15</u> Comments:
Building Sign Off: (Building Plans) <i>Amc Dermott</i>	Date Approved: <u>5/18/2015</u> Comments:

Application Date: 04/20/2015

Received By: LINDAMC

Owner: KNUTSON MARK D & KRISTIN L
HOMES LLC

Applicant: IRON MOUNTAIN

Type of Building: SINGLE FAMILY DWELLING REPLACEMENT

Permit No.: B1500411

Contact No.: Lot No.: 11501BC02000

Serial No.: 420970

Parcel Size: 0.65

Zoning: RR-2

Water Source: PRIVATE WELL

Manufactured Home: Year: ?? Make: ??

Size: ??

Bedrooms: 4

Departments	Date	Status/Comments
Environmental Health		<i>GW130002</i>
Public Works - Water <i>NA</i>		
Public Works - RI <i>Am</i>	<i>4/22/15</i>	<i>Not Required</i>
Public Works - RA <i>Am</i>	<i>4/24/15</i>	<i>Not Required</i>
Planning - Zoning <i>TL</i>	<i>4/21/15</i>	<i>CSF 508, 512, 513, 514, 521, 589</i>
Building - Building Plans <i>Am</i>	<i>5/18/2015</i>	

PERMIT NUMBER B1500411

MECHANICAL FEES

FEE ITEM	QTY	PRICE
Fuel burning stove, fireplace, insert, lighter	4	30.00
Furnace, air conditioner, heat pump	2	30.00
Clothes dryer, exhaust fan, hood	10	20.00
Other appliance or equipment (hydronic heating)		20.00
Gas piping system, new or altered (1 fee for all connections + each appliance)	1	20.00
Alteration to mechanical equipment or system		20.00
Minimum Fee		80.00
Mechanical Plan Review 50% of permit		

CET 5205

PLUMBING FEES

FEE ITEM	QTY	PRICE
New Residential		
1 bathroom / 1 kitchen		\$300.00
2 bathrooms / 1 kitchen		\$400.00
3 bathrooms / 1 kitchen	1	\$500.00
Each additional bathroom over 3	2	\$75.00
Each additional kitchen over 1		\$75.00
Remodel alteration (min fee)		\$80.00
Each fixture, appurtenance, piping		\$19.00
Storm water retention/detention facility		\$80.00
Irrigation Systems		\$80.00
Piping or private storm water drain exceed 100'	2	\$30.00
Residential Fire Sprinklers (includes plan review)		
0 to 2,000 square feet		\$200.00
2,001 to 3,600 square feet		\$250.00
3,601 to 7,200 square feet		\$325.00
7,201 square feet and greater		\$410.00

FEE ITEM	QTY	PRICE
Manufactured Dwelling / Pre-fab		
Connections to bldg sewer/water		\$80.00
RV & MH Dwelling Parks		
Base Fee (includes 1" 10 spaces)		\$359.60
Each additional 10 spaces		\$312.00
Commercial/Industrial/Dwellings other than 1 & 2 Family		
Minimum Fee		\$80.00
Each fixture		\$20.00
Sewer 1" 100 feet		\$100.00
Sewer each additional 100 feet		\$35.00
Water service 1" 100 feet		\$100.00
Water service each additional 100 ft		\$35.00
Storm and Rain Drain 1" 100 feet		\$100.00
Storm and Rain Drain ea add 100 ft		\$35.00
Miscellaneous Fees		
Specialty Fixtures		\$20.00
Re-inspection # of hours		\$80.00/hr
Investigative Fess (= to permit fees)		
Plumbing Plan Check 25% of fees		

Bathrooms LHT

Dent Fans LHT LHT

GAS ^{wood} Fireplaces. 1111

Furnace & AC 11

Community Development Replacement Permitting System

General Index to All Permits and LUTS

Enter Serial, Old Serial, or
Map & Tax Lot Number:

Name & Address

Name	Mail Address	Property ID	Serial	Prime
GARRARD JAMES L & LAURA M,TR	440 NW ELKS DR #120	R090511501BC00600	036669	036669

Situs

Permits

Permit Type	Permit ID	Serial	MapTaxLot	App Date	Building Use	Permit Status	Final Date	
C	9400374	036669	11501BC00600	03/21/1994	MECHANICAL	F	10/11/1995	View Detail Finalize
C	9501315	036669	11501BC00600	10/06/1995	MECHANICAL	F	10/11/1995	View Detail Finalize
E	90074	036669	11501BC00600	02/20/1990	SERVICE CHANGE ONLY IN AN EXISTING RESIDENCE()	F	02/23/1990	View Detail Finalize
E	93028	036669	11501BC00600	01/19/1993	MOBILE HOME PARK OR REPLACEMENT()	F	01/19/1993	View Detail Finalize
MH	92075	036669	11501BC00600	10/15/1992	MOBILE HOME	F	12/21/1993	View Detail Finalize
P	92283	036669	11501BC00600	10/15/1992	MOBILE HOME PLUMBING CONNECTIONS: REPLACEMENT MOBILE HOME ON PRIVATE PROPERTY (1)	E		View Detail Finalize
S	92229	036669	11501BC00600	08/25/1992	MOBILE HOME	F	10/01/1992	View Detail Finalize

LUTS info

Old Permits

Permit ID	Application Date	Description	PRA	UGA	Expiration Date
308	07/11/1968	SITE INSPECTION			
7803523					
7803886					
818334					

GODWIN linsey

From: LEWIS Toby A
Sent: Thursday, April 23, 2015 3:44 PM
To: GODWIN linsey
Subject: FW: Building permit number b1500411

From: Prechel, Jeffrey
Sent: Thursday, April 23, 2015 3:44 PM
To: 'Mark Knutson'
Cc: LEWIS Toby A
Subject: RE: Building permit number b1500411

Good afternoon Mark,

Thanks for the driveway detail. CFD will accept the NFPA 13D system as an AM&M for water supply.

Respectfully,

Jeff Prechel
Division Chief - Fire Marshal
Corvallis Fire Dept
541-766-6970
541-766-6938 (FAX)
Jeffrey.Prechel@ci.corvallis.or.us

From: Mark Knutson [mailto:ironmthomes@gmail.com]
Sent: Thursday, April 23, 2015 11:20 AM
To: Prechel, Jeffrey
Subject: Building permit number b1500411

This is in response to the letter I received from Toby Lewis in the planning department regarding a new home to be built on Lathrop Lane tax lot 11501bc00600. We are aware that we will need to put in a fire suppression system and agree to do so. The driveway was put in about 1 year ago and was approved for the construction of a new home at the back of the property. The property address for that new construction built last year is 7235 North northwest Lathrop Lane Corvallis. The existing driveway that will serve the new construction is 21 feet wide. I mistakenly wrote 16 on the plot plan as I had forgotten that we were required to make it wider because it served more than one property. The grade is nearly flat and less than 3% in all areas. The length of the driveway for the proposed new construction is 150 feet.

Please let me know if these answers are sufficient for approval. Thank you. Mark Knutson Iron Mountain homes.

11501BC

REV. 04-18-2013
CANCELLED

500
700
701
702
703
1400
1500
1801
1701
800

SEE MAP
11501BA

ALDER CREEK DRIVE P15334

0915
(0948)

COUNTRY
ESTATES

SEE MAP
11501BD

SEE MAP
11501CA

11501BC

S.W. 1/4 N. 1/4 SEC. 1 T. 11S. R. 6W. W.M.

BENTON COUNTY

1" = 100'

2007

0905
(0902)

NW MOUNTAIN VIEW DRIVE P15035

2013

2012

SEE MAP
11501CB

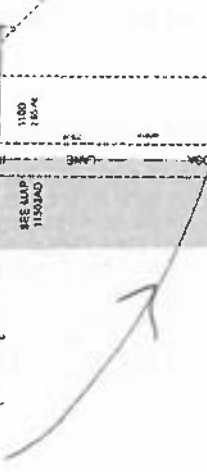
THIS MAP IS PREPARED FOR
ASSESSMENT PURPOSE ONLY

SEE MAP
11501BB

SEE MAP
11503AD

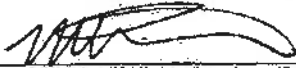
SEE MAP
11503AE

B1500411
11-5-01BC-2000
Knutson
CD Replacement
Corvallis RFD
sent 4/21/15



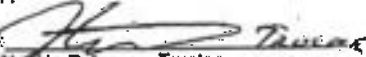
APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

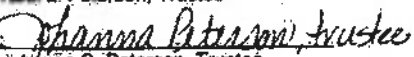
DATED: April 28, 2015


Mark Knutson


Kristin Knutson

Neal L. Peterson Living Trust, dated October 11, 1993, as amended and restated November 30, 2011

BY: 
Neal L. Peterson, Trustee

BY: 
Johanna C. Peterson, Trustee

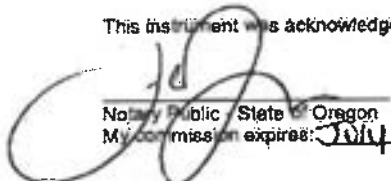
Johanna C. Peterson Living Trust, dated October 11, 1993, as amended and restated November 30, 2011

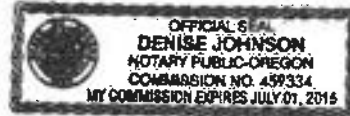
BY: 
Johanna C. Peterson, Trustee

BY: 
Neal L. Peterson, Trustee

State of OREGON
COUNTY of BENTON

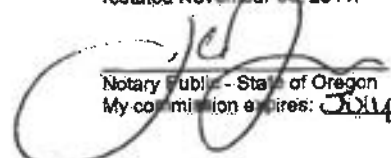
This instrument was acknowledged before me on April 28, 2015 by Mark Knutson and Kristin Knutson.

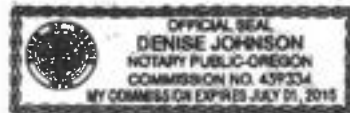

Notary Public - State of Oregon
My commission expires: JULY 01, 2015



State of OREGON
COUNTY of BENTON

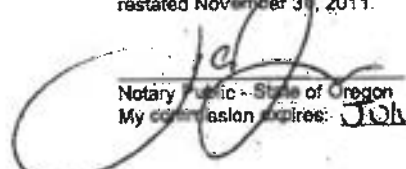
This instrument was acknowledged before me on April 28, 2015 by Neal L. Peterson and Johanna C. Peterson as Trustees of the Neal L. Peterson Living Trust dated October 11, 1993, as amended and restated November 30, 2011.

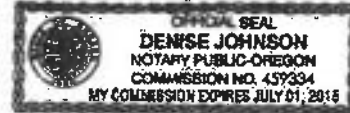

Notary Public - State of Oregon
My commission expires: JULY 01, 2015



State of OREGON
COUNTY of BENTON

This instrument was acknowledged before me on April 28, 2015 by Johanna C. Peterson and Neal L. Peterson as Trustees of the Johanna C. Peterson Living Trust dated October 11, 1993, as amended and restated November 30, 2011.


Notary Public - State of Oregon
My commission expires: JULY 01, 2015





Residential Energy Additional Measure Selection

Department of Consumer and Business Services
 Building Codes Division
 1535 Edgewater NW, Salem, Oregon
 Mailing address: P.O. Box 14470, Salem, OR 97309-0404
 503-373-1210 • Fax: 503-378-3656
 Web: bcd.oregon.gov

RESIDENTIAL INFORMATION

Date: _____ Building permit number: _____
 Owner's name: Brend Wehufheid
 Job address: 24th and NW Corvallis
 City: Corvallis State: OR ZIP: 97330

INSTRUCTIONS

Please select type of construction below; sign, date, and complete the **entire form**. Submit this form with your permit application or your project will be placed on hold until the required information is provided.

New construction. All conditioned spaces within residential buildings must comply with Table N1101.1(1) and two additional measures (one numbered and one lettered) from Table N1101.1(2) on page 2.

Additions. Additions to existing buildings or structures may be made without making the entire building or structure comply if the new additions comply with the requirements of this chapter. (N1101.3)

Large additions. Additions that are equal to or more than 40 percent of the existing building heated floor area or 600 square feet (55 m²) in area, whichever is less, must comply with Table N1101.1(2) on page 2. (N1101.3.1) (Note: You must select one numbered and one lettered measure.)

Small additions. Additions that are less than 40 percent of the existing building heated floor area or less than 600 square feet in area, whichever is less, must select one measure from Table N1101.1(2) on page 2 or comply with Table N1101.3 below. (N1101.3.2)

Exception: Additions that are less than 15 percent of existing building heated floor area or 200 square feet (18.58 m²) in area, whichever is less, are not required to comply with Table N1101.1(2) or Table N1101.3.

Selected item number: 2 Selected item letter: A

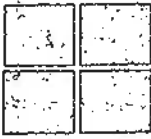
Note: Depending on which Additional Measures you have selected, there may be sub-options that you will have to specify. Check the appropriate box if provided.

Applicant's signature: [Signature] Print name: Mark Winsen

TABLE N1101.3 – SMALL ADDITION ADDITIONAL MEASURES (SELECT ONE)

<input checked="" type="checkbox"/>	1	Increase the ceiling insulation of the existing portion of the home as specified in Table N1101.2.
<input type="checkbox"/>	2	Replace all existing single-pane wood or aluminum windows to be U-value as specified in Table N1101.2.
<input type="checkbox"/>	3	Insulate the floor system as specified in Table N1101.2 and install 50 percent of permanently installed lighting fixtures as CFL or linear fluorescent or min. efficacy of 40 lumens per watt as specified in Section N1107.2.
<input type="checkbox"/>	4	Test the entire dwelling with blower door and exhibit no more than 7.0 air changes per hour @ 50 Pascals.
<input type="checkbox"/>	5	Seal and performance test the duct system.
<input type="checkbox"/>	6	Replace existing 78 percent AFUE or less gas furnace with a 92 percent AFUE or greater system.
<input type="checkbox"/>	7	Replace existing electric radiant space heaters with a ductless mini-split system with a minimum HSPF of 8.5.
<input type="checkbox"/>	8	Replace existing electric forced air furnace with an air source heat pump with a minimum HSPF of 8.5.
<input type="checkbox"/>	9	Replace existing water heater for a natural gas/propane water heater with a minimum EF of 0.67.
<input type="checkbox"/>	10	Install a solar water heating system with a minimum of 40 square feet of gross collector area.

B1500411



ALAN

Mascord

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APR 20 1965

DESIGN ASSOCIATES, INC.

By ym

STOCK PLAN

2441

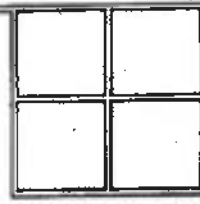
GRAVITY LOADS BASED ON AFPA NDS-05

FLOOR	-	40# LIVE, 10# DEAD
ROOF	-	25# SNOW
	-	15# DEAD (SHAKE/COMP)
	-	19# DEAD (CONC. TILE)
CEILING	-	20# LIVE, 10# DEAD
DECKS	-	40# LIVE, 10# DEAD
EXITS/STAIRS	-	50# TOTAL LOAD

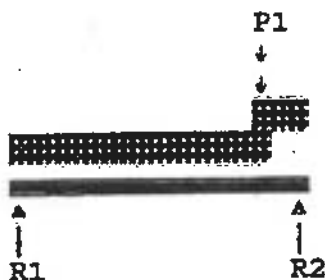
BEAM CALCULATIONS

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M2- TYPICAL DR HDRS AT EXERCISE
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 6 X 10 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 2,329.7 lbs. Reaction R2 = 2,816.6 lbs.
 Total load = 5,146.3 lbs.
 Dimensions: Clear span = 7.5 feet, no overhang.

Point loads: P1 = 768.0 lbs. at 6.5 feet.
 No triangular loads.
 Uniform beam weight = 8 lbs/lf (= 56.25 lbs. total).
 Uniform loads: U2 = 500.0 lbs/lf at 6.5 feet to 7.5 feet.
 U1 = 588.0 lbs/lf at 0.0 feet to 6.5 feet.
 Deflection limit (live load plus dead load): 1/300.

.....
 BEAM TYPE WOOD: DFL-SINGL 6X #2
 COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL

	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	2,816.6 FV	85.0 Area (Sq.In.)	50	50*
Moment (ft-lbs)	4,554.6 FB	875.0 Sect.Modulus	62	75
Deflection (in)	0.30 E	1.30E6 Mom.Inertia	119	338

.....
 Actual Maximum Deflection = 0.11 inches.
 Maximum Deflection occurs at 4.0 feet.
 Maximum Moment occurs at 4.0 feet.

MINIMUM BEAM SIZE (W x H): 5.500" by 9.037"

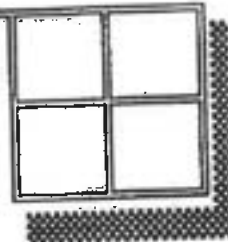
MINIMUM BEAM AREA (Sq.In.): 49.70

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M4- MULT JSTS OVER EXERCISE DRS
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: (2) 2 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 1,191.0 lbs. Reaction R2 = 1,191.0 lbs.
 Total load = 2,382.0 lbs.
 Dimensions: Clear span = 6.0 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 67 lbs/lf (= 402 lbs. total).
 Uniform loads: U1 = 330.0 lbs/lf at 0.0 feet to 6.0 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE WOOD: DFL-REPET 2X12 #2
 COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL

	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	1,191.0 FV	95.0 Area (Sq.In.)	19	19
Moment (ft-lbs)	1,786.5 FB	1,035.0 Sect.Modulus	21	21*
Deflection (in)	0.20 E	1.60E6 Mom.Inertia	36	67

Actual Maximum Deflection = 0.11 inches.
 Maximum Deflection occurs at 3.0 feet.
 Maximum Moment occurs at 3.0 feet.

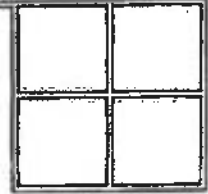
MINIMUM BEAM SIZE (W x H): 3.000" by 6.436"

MINIMUM BEAM AREA (Sq.In.): 19.31
 VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M6- MAIN BM OVER GREAT RM
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 5 1/8" X 16 1/2" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 5,830.0 lbs. Reaction R2 = 5,830.0 lbs.
 Total load = 11,660.0 lbs.
 Dimensions: Clear span = 20.0 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 20 lbs/lf (= 400 lbs. total).
 Uniform loads: U1 = 563.0 lbs/lf at 0.0 feet to 20.0 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE LAM : GLULAM (2400 Fb)
 COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL

Shear (lbs)	5,830.0	FV	240.0	Area (Sq.In.)	36	82
Moment (ft-lbs)	29,150.0	FB	2,400.0	Sect.Modulus	150	218
Deflection (in)	0.67	E	1.80E6	Mom.Inertia	1,747	1,747*

Actual Maximum Deflection = 0.67 inches.
 Maximum Deflection occurs at 10.0 feet.
 Maximum Moment occurs at 10.0 feet.
 Size Factor = 0.969

DETERMINING FACTOR = *

MINIMUM BEAM SIZE (W x H): 5.125" by 15.994"

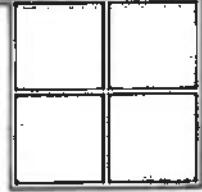
MINIMUM BEAM AREA (Sq.In.): 81.97

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

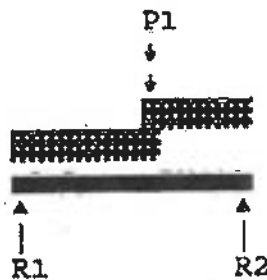
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M8- DR HDR AT GREAT RM
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 3 1/8" X 10 1/2" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 4,550.7 lbs. Reaction R2 = 3,800.3 lbs.
 Total load = 8,351.0 lbs.
 Dimensions: Clear span = 6.0 feet, no overhang.

Point loads: P1 = 3,740.0 lbs. at 3.5 feet.
 No triangular loads.
 Uniform beam weight = 6 lbs/lf (= 36 lbs. total).
 Uniform loads: U2 = 213.0 lbs/lf at 3.5 feet to 6.0 feet.
 U1 = 1,155.0 lbs/lf at 0.0 feet to 3.5 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE LAM : GLULAM (2400 Fb)		COMPUTED STRESS/STRAIN		DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	4,550.7	FV	240.0	Area (Sq.In.)	28	29	
Moment (ft-lbs)	8,816.4	FB	2,400.0	Sect.Modulus	44	44*	
Deflection (in)	0.20	E	1.80E6	Mom.Inertia	142	203	

Actual Maximum Deflection = 0.14 inches.
 Maximum Deflection occurs at 3.0 feet.
 Maximum Moment occurs at 3.5 feet.

MINIMUM BEAM SIZE (W x H): 3.125" by 9.200"

MINIMUM BEAM AREA (Sq.In.): 28.75

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

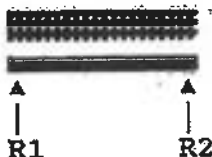
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M10- MULT JSTS BTWN FOYER / GREAT RM
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: (2) 2 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 995.6 lbs. Reaction R2 = 995.6 lbs.
 Total load = 1,991.3 lbs.
 Dimensions: Clear span = 4.5 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 5 lbs/lf (= 20.25 lbs. total).
 Uniform loads: U1 = 438.0 lbs/lf at 0.0 feet to 4.5 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE WOOD: DFL-SINGL 2X12 #2				DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
COMPUTED STRESS/STRAIN							
Shear (lbs)	995.6	FV	95.0	Area (Sq.In.)	16	16*	
Moment (ft-lbs)	1,106.3	FB	990.0	Sect.Modulus	13	14	
Deflection (in)	0.15	E	1.60E6	Mom.Inertia	16	36	

Actual Maximum Deflection = 0.07 inches.
 Maximum Deflection occurs at 2.0 feet.
 Maximum Moment occurs at 2.0 feet.

MINIMUM BEAM SIZE (W x H): 3.000" by 5.240"

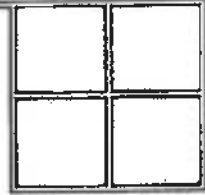
MINIMUM BEAM AREA (Sq.In.): 15.72

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M12- DECK BM AT REAR PORCH BY NOOK
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 6 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 2,217.4 lbs. Reaction R2 = 2,217.4 lbs.
 Total load = 4,434.8 lbs.
 Dimensions: Clear span = 13.5 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 14 lbs/lf (= 182.25 lbs. total).
 Uniform loads: U1 = 315.0 lbs/lf at 0.0 feet to 13.5 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE WOOD: DFL-SINGL 6X #2						
COMPUTED STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL		
Shear (lbs)	2,217.4	FV	85.0	Area (Sq.In.)	39	58
Moment (ft-lbs)	7,473.4	FB	875.0	Sect.Modulus	102	102*
Deflection (in)	0.45	E	1.30E6	Mom.Inertia	418	542

Actual Maximum Deflection = 0.35 inches.
 Maximum Deflection occurs at 6.5 feet.
 Maximum Moment occurs at 6.5 feet.

MINIMUM BEAM SIZE (W x H): 5.500" by 10.574"

MINIMUM BEAM AREA (Sq.In.): 58.16

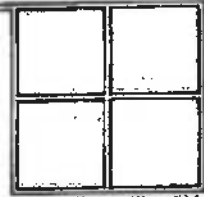
VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S v1.5 S T R U C T U R A L

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR

Client: STOCK PLAN
 Project: 2441
 Location: M14- TYPICAL BM AT MUD RM PORCH
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 6 X 12 DF #2 OK



B E A M A N D L O A D D I A G R A M



Reaction R1 = 1,436.5 lbs. Reaction R2 = 1,436.5 lbs.
 Total load = 2,873.0 lbs.
 Dimensions: Clear span = 13.0 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 13 lbs/lf (= 169 lbs. total).
 Uniform loads: U1 = 208.0 lbs/lf at 0.0 feet to 13.0 feet.
 Deflection limit (live load plus dead load): 1/300.

BEAM TYPE WOOD: DFL-SINGL 6X #2				DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
COMPUTED STRESS/STRAIN							
Shear (lbs)	1,436.5	FV	85.0	Area (Sq.In.)	25	46	
Moment (ft-lbs)	4,668.6	FB	875.0	Sect.Modulus	64	64*	
Deflection (in)	0.52	E	1.30E6	Mom.Inertia	210	268	

Actual Maximum Deflection = 0.41 inches.
 Maximum Deflection occurs at 6.5 feet.
 Maximum Moment occurs at 6.5 feet.

MINIMUM BEAM SIZE (W x H): 5.500" by 8.357"

MINIMUM BEAM AREA (Sq.In.): 45.97

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S V1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR

Client: STOCK PLAN

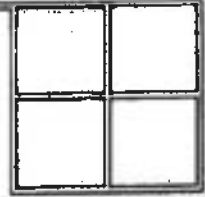
Project: 2441

Location: M16- BM OVER GARAGE BY MUD RM DR

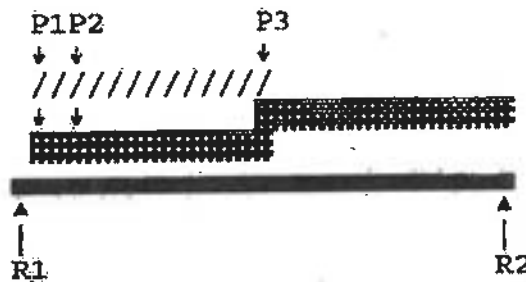
Date: 09-24-2004

Calculation By: L.A.W.

Comment: 6 3/4" X 12" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 5,643.5 lbs. Reaction R2 = 4,860.5 lbs.

Total load = 10,504.0 lbs.

Dimensions: Clear span = 13.0 feet, no overhang.

Point loads: P1 = 311.0 lbs. at 0.5 feet.
 P2 = 258.0 lbs. at 1.5 feet.
 P3 = 6,509.0 lbs. at 6.5 feet.
 Triangular load: W = 450.0 lbs. at 0.5 feet to 6.5 feet.
 Uniform beam weight = 67 lbs/lf (= 871 lbs. total).
 Uniform loads: U2 = 130.0 lbs/lf at 6.5 feet to 13.0 feet.
 U1 = 210.0 lbs/lf at 0.5 feet to 6.5 feet.
 Deflection limit (live load plus dead load): 1/360.

COMPUTED	STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	5,643.5	FV	240.0 Area (Sq.In.)	35	79
Moment (ft-lbs)	27,428.4	FB	2,400.0 Sect.Modulus	137	154
Deflection (in)	0.43	E	1.80E6 Mom.Inertia	903	903*

Actual Maximum Deflection = 0.43 inches.
 Maximum Deflection occurs at 6.5 feet.
 Maximum Moment occurs at 6.5 feet.

MINIMUM BEAM SIZE (W x H): 6.750" by 11.710"

MINIMUM BEAM AREA (Sq.In.): 79.04

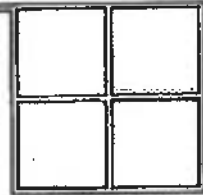
VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR

Client: STOCK PLAN
 Project: 2441
 Location: M18- MOLT JSTS REAR GARAGE BY MECH
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: (3) 2 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 801.5 lbs. Reaction R2 = 2,801.5 lbs.
 Total load = 3,603.0 lbs.
 Dimensions: Clear span = 9.0 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 67 lbs/lf (= 603 lbs. total).
 Uniform loads: U1 = 1,000.0 lbs/lf at 6.0 feet to 9.0 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE WOOD: DFL-REPET 2X12 #2

COMPUTED STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	2,801.5	FV 95.0	Area (Sq.In.)	44 44*
Moment (ft-lbs)	3,669.4	FB 1,035.0	Sect.Modulus	43 72
Deflection (in)	0.30	E 1.60E6	Mom.Inertia	97 356

Actual Maximum Deflection = 0.08 inches.
 Maximum Deflection occurs at 5.0 feet.
 Maximum Moment occurs at 6.5 feet.

MINIMUM BEAM SIZE (W x H): 4.500" by 9.830"

MINIMUM BEAM AREA (Sq.In.): 44.23

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

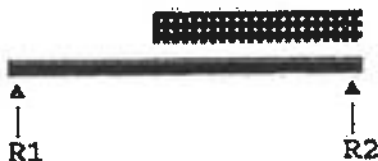
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M20- MULT JSTS OVER REAR MID GARAGE
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: (2) 2 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 370.9 lbs. Reaction R2 = 482.1 lbs.
 Total load = 853.0 lbs.
 Dimensions: Clear span = 9.0 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 67 lbs/lf (= 603 lbs. total).
 Uniform loads: U1 = 50.0 lbs/lf at 4.0 feet to 9.0 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE WOOD: DFL-REPET 2X12 #2					
COMPUTED STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL	
Shear (lbs)	482.1	FV	95.0	Area (Sq.In.)	8 15
Moment (ft-lbs)	992.2	FB	1,035.0	Sect.Modulus	12 12
Deflection (in)	0.30	E	1.60E6	Mom.Inertia	30 30*

Actual Maximum Deflection = 0.30 inches.
 Maximum Deflection occurs at 4.5 feet.
 Maximum Moment occurs at 5.0 feet.

MINIMUM BEAM SIZE (W x H): 3.000" by 4.905"

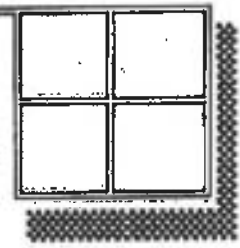
MINIMUM BEAM AREA (Sq.In.): 14.72

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

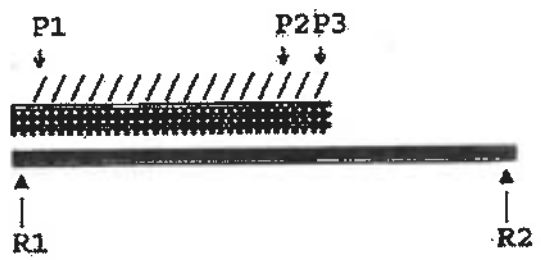
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M22- BM OVER MID FRONT GARAGE
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 6 3/4" X 12" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 5,257.6 lbs. Reaction R2 = 4,855.4 lbs.
 Total load = 10,113.0 lbs.
 Dimensions: Clear span = 13.0 feet, no overhang.

Point loads: P1 = 311.0 lbs. at 0.5 feet.
 P2 = 5,625.0 lbs. at 7.0 feet.
 P3 = 906.0 lbs. at 8.0 feet.
 Triangular load: W = 720.0 lbs. at 0.5 feet to 8.0 feet.
 Uniform beam weight = 67 lbs/lf (= 871 lbs. total).
 Uniform loads: U1 = 210.0 lbs/lf at 0.0 feet to 8.0 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE LAM : GLULAM (2400 Fb)		COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL				
Shear (lbs)	5,257.6	FV	240.0	Area (Sq.In.)	33	79
Moment (ft-lbs)	26,820.1	FB	2,400.0	Sect.Modulus	134	153
Deflection (in)	0.43	E	1.80E6	Mom.Inertia	890	890*

Actual Maximum Deflection = 0.43 inches.
 Maximum Deflection occurs at 6.5 feet.
 Maximum Moment occurs at 7.0 feet.

MINIMUM BEAM SIZE (W x H): 6.750" by 11.651"

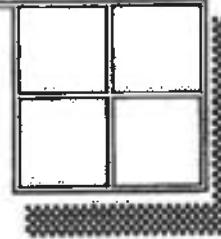
MINIMUM BEAM AREA (Sq.In.): 78.64

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

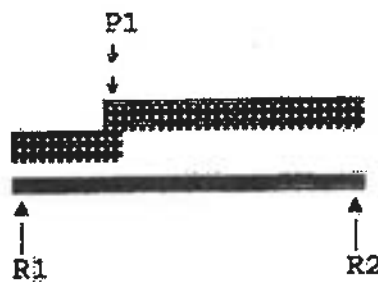
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M24- MID 9/0 O.H. GARAGE DR HDR
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 5 1/8" X 10 1/2" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 8,345.7 lbs. Reaction R2 = 5,149.3 lbs.
 Total load = 13,495.0 lbs.
 Dimensions: Clear span = 9.0 feet, no overhang.

Point loads: P1 = 5,258.0 lbs. at 2.5 feet.
 No triangular loads.
 Uniform beam weight = 9 lbs/lf (= 81 lbs. total).
 Uniform loads: U2 = 774.0 lbs/lf at 2.5 feet to 9.0 feet.
 U1 = 1,250.0 lbs/lf at 0.0 feet to 2.5 feet.
 Deflection limit (live load plus dead load): 1/360.

COMPUTED STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	8,345.7 FV	240.0 Area (Sq.In.)	52	52*
Moment (ft-lbs)	16,929.8 FB	2,400.0 Sect.Modulus	85	88
Deflection (in)	0.30 E	1.80E6 Mom.Inertia	426	450

Actual Maximum Deflection = 0.28 inches.
 Maximum Deflection occurs at 4.5 feet.
 Maximum Moment occurs at 2.5 feet.

MINIMUM BEAM SIZE (W x H): 5.125" by 10.178"

MINIMUM BEAM AREA (Sq.In.): 52.16

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

STOCK PLAN: 2441

MAIN GARAGE BM

M26

Date: 9/24/04

Selection

6-3/4x 25-1/2 24F GLU-LAM

Lu = 0.0 Ft

Conditions

Min Bearing Area R1= 23.9 in² R2= 31.0 in²

Data

Beam Span	24.0 ft				
Beam Wt per ft	41.83 #	Reaction 1 TL	15518 #	Reaction 2 TL	20135 #
Bm Wt Included	1004 #	Maximum V	20135 #		
Max Moment	88302 #	Max V (Reduced)	19444 #		
TL Max Defl	L / 360	TL Actual Defl	L / 429		

Attributes

	Section (in ²)	Shear (in ²)	TL Defl (in)
Actual	731.53	172.13	0.87
Critical	495.95	121.53	0.80
Status	OK	OK	OK
Ratio	68%	71%	84%

USER'S CUSTOM BASE VALUES

Values

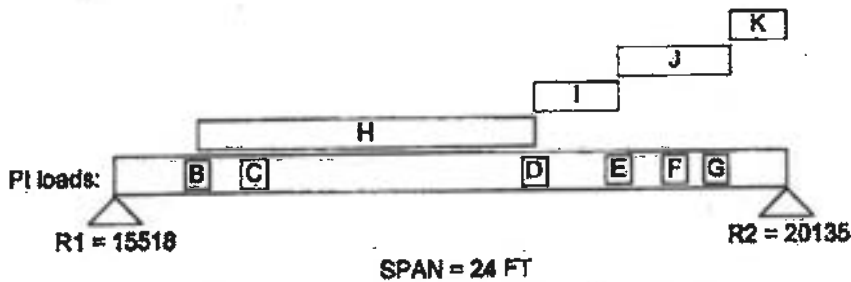
	Fb (psi)	Fv (psi)	E (psi x mil)	Fc.L (psi)
Base Values	2400	240	1.8	850
Base Adjusted	2137	240	1.8	850

Adjustments

Cv Volume	0.890			
Cd Duration	1.00	1.00		
Cr Repetitive	1.00			
Ch Shear Stress		1.00		
Cm Wet Use	1.00	1.00	1.00	1.00
CI Stability	1.0000	Rb = 0.00	Le = 0.00 Ft	Kbe = 0.0

Loads

Point TL	Distance	Par Unif TL	Start	End
B = 7732	3.0	H = 805	3.0	15.0
C = 371	5.0	I = 1115	15.0	18.0
D = 802	15.0	J = 605	18.0	22.0
E = 2393	18.0	K = 263	22.0	24.0
F = 468	20.0			
G = 9332	21.5			

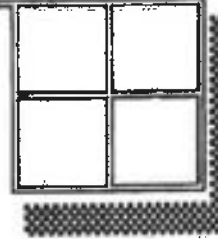


Uniform and partial uniform loads are lbs per lineal ft.

ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: M28- DECK BM OVER FRONT ENTRY
 Date: 09-24-2004
 Calculation By: L.A.W.
 Comment: 6 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 1,525.1 lbs. Reaction R2 = 1,525.1 lbs.
 Total load = 3,050.3 lbs.
 Dimensions: Clear span = 10.5 feet, no overhang.

No point loads.
 No triangular loads.
 Uniform beam weight = 11 lbs/lf (= 110.25 lbs. total).
 Uniform loads: U1 = 280.0 lbs/lf at 0.0 feet to 10.5 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE WOOD: DFL-SINGL 6X #2						
COMPUTED STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL		
Shear (lbs)	1,525.1	FV	85.0	Area (Sq.In.)	27	43
Moment (ft-lbs)	3,994.4	FB	875.0	Sect.Modulus	55	55*
Deflection (in)	0.35	E	1.30E6	Mom.Inertia	174	212

Actual Maximum Deflection = 0.29 inches.
 Maximum Deflection occurs at 5.0 feet.
 Maximum Moment occurs at 5.0 feet.

MINIMUM BEAM SIZE (W x H): 5.500" by 7.730"

MINIMUM BEAM AREA (Sq.In.): 42.52

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

Alan Mascord Design Associates, Inc.
 1305 NW 18th Avenue
 Portland, OR 97209 (503) 225-9161

Isolated Footing Worksheet

Bearing Footing Information:

Project:	STOCK PLAN: 2441
Location:	FT2- FOOTING BTWN 1ST & 2ND GARAGE BAY
Callout:	USE 31" x 31" x 12" CONC. FTG. W/ (3) #4 BARS EA. WAY

Rebar Grade	40
f_c (ksi)	3.00
f_s (ksi)	20.00
f_y (ksi)	40.00
rebar size (number)	4
Soil Bearing Pressure (psf)	1,500
d_{rc} Rebar Cover (in)	3.00

Steel Grade of reinforcing bars
 Specified Concrete compressive strength (kips/in²)
 Allowable tensile stress of steel reinforcement (kips/in²)
 Yield strength of steel reinforcement (kips/in²)
 bar number... the bar diameter in eighths of an inch
 minimum rebar cover

Entered Values

d_{cs} Square Column Side Dimension (in)	5.50
j Value "j"	0.90
w_c concrete weight (pcf)	150.00
P Column Load (lbs)	9,000.00
A_r Rebar cross section area	0.20

assumes a square section column or column with square bearing plate
 Lookup from table of Balanced Section Properties
 $(h/12) * 150$
 $\pi^2 = \pi * (0.5 * 0.5)^2$

Computed Values

D_r rebar diameter (in)	0.50
h h= footing height	12
d footing thickness less bar & cover	8.50
w_r Net Footing Pressure (psf)	150.00
p_n Net Usable Soil Pressure (psf)	1,350.00

rebar number divided by 8
 $h - (d_{rc} + D_r) = (12 - (3 + 0.5))$
 $(h / 12) * w_c = (12 / 12) * 150$
 $(1500 - 150) = 1350$

b_p Req'd Footing "Pad" Plan Area (sf)	6.67
d_{pr} Req'd Length of Pad Side (in.)	30.99
b Length of Pad Side (in.) - rounded	31
b_f Length of Pad Side (ft.) - rounded	2.58
d_1 beam shear consideration dist (in)	4.25

$P / p_n = (9000 / 1500)$
 $((\sqrt{d_{pr}}) * 12) = ((\sqrt{6.67}) * 12)$
 round d_{pr} up to whole inch
 express d_{pr} in square feet based upon rounded value
 $(0.5 * b) - ((0.5 * d_{cs}) + d) = (0.5 * 31) - ((0.5 * 5.5) + 8.5)$

Beam Shear Investigation

V Shear Force (V)	1,233.6
v Shear Stress (v)	4.68
v_c Maximum Stress (vc)	60.25
Shear Investigation Result	PASSES

$(p_n * b_f * (d_1 / 12)) = (1350 * 2.58 * (4.25 / 12))$
 $V / (b * d) = 1233.6 / (31 * 8.5)$
 $1.1 * \sqrt{(f_c * 1000)} = 1.1 * \sqrt{(3 * 1000)}$
 check to see if Shear stress "v" is less than maximum "vc"

Peripheral Shear Investigation

d_2 peripheral shear consideration dist (in)	14.00
V Peripheral Shear (V)	7,148.6
v Peripheral Shear stress (v)	15.02
v_c Maximum Peripheral Stress (vc)	109.54
Peripheral Shear Investigation Result	PASSES

$(d + d_{cs}) = (8.5 + 5.5)$
 $V * ((b_f)^2 - (d_2/12)^2) = 1350 * ((2.58)^2 - (14 / 12)^2)$
 $V / ((d_2 * 4) * d) = 1350 / ((14 * 4) * 8.5)$
 $2 * \sqrt{(f_c * 1000)} = 2 * \sqrt{(3 * 1000)}$
 check to see if Peripheral shear "v" is less than the maximum "vc"

Cantilever Moment Investigation

d_3 Bending/dev. consideration dist (in)	12.75
M Cantilever Moment (M)	1,966.0
A_s Required Steel Area "As" (sq. in.)	0.15
Total Number of bars required (min)	1
Number of bars each way (min)	1
Rule of thumb no. of bars each way	3
Callout rebar to use each way	3

$(0.5 * b) - (0.5 * d_{cs}) = (0.5 * 31) - (0.5 * 5.5)$
 $p_n * b_f * (d_3/12) * (0.5 * (d_3/12)) = 1350 * 2.58 * (12.75 / 12) * (0.5 * (12.75 / 12))$
 $M * 12 / ((f_s * 1000) * j * d) = (1966 * 12) / ((20 * 1000) * 0.9 * 8.5)$
 total req. steel area divided by area of a bar, rounded up
 total number of bars divided by two and rounded up
 by preference, space rebar no more than footing thickness (h)
 greater of calculated or preference rebar spacing to determine number of bars

ORIGINAL

Alan Mascord Design Associates, Inc.
1305 NW 18th Avenue
Portland, OR 97209 (503) 225-9161

Isolated Footing Worksheet

Bearing Footing Information:

Project:	STOCK PLAN 2441
Location:	FT4- FOOTING AT HALF BATH BY MUD RM.
Callout:	USE 50" x 50" x 12" CONC. FTG. W/ (4) #4 BARS EA. WAY

Rebar Grade	40
f_c (ksi)	3.00
f_s (ksi)	20.00
f_y (ksi)	40.00
rebar size (number)	4
Soil Bearing Pressure (psf)	1,500
Rebar Cover (in)	3.00

Steel Grade of reinforcing bars
Specified Concrete compressive strength (kips/in²)
Allowable tensile stress of steel reinforcement (kips/in²)
Yield strength of steel reinforcement (kips/in²)
bar number... the bar diameter in eighths of an inch
minimum rebar cover

Entered Values

dc	Square Column Side Dimension (in)	5.50
j	Value *	0.90
wc	concrete weight (psf)	150.00
P	Column Load (lbs)	23,000.00
Ar	Rebar cross section area	0.20

assumes a square section column or column with square bearing plate
Lookup from table of Balanced Section Properties
 $(h/12) * 150$
 $\pi^2 = \pi * (0.5 * 0.5)^2$

Computed Values

Dr	rebar diameter (in)	0.50
h	footing height	12
d	footing thickness less bar & cover	8.50
wf	Net Footing Pressure (psf)	150.00
pn	Net Usable Soil Pressure (psf)	1,350.00

rebar number divided by 8
 $h - (drc + Dr) = (12 - (3 + 0.5))$
 $(h / 12) * wc = (12 / 12) * 150$
 $(1500 - 150) = 1350$

Req'd Footing "Pad" Plan Area (sf)	17.04
Req'd Length of Pad Side (in.)	49.54
Length of Pad Side (in.) - rounded	50
Length of Pad Side (ft.) - rounded	4.17
beam shear consideration dist (in)	13.75

$P / pn = (23000 / 1500)$
 $((\sqrt{dpr}) * 12) = ((\sqrt{17.04}) * 12)$
round dpr up to whole inch
express dpr in square feet based upon rounded value
 $(0.5 * b) - ((0.5 * dcs) + d) = (0.5 * 50) - ((0.5 * 5.5) + 8.5)$

Beam Shear Investigation

V	Shear Force (V)	6,450.5
v	Shear Stress (v)	15.18
vc	Maximum Stress (vc)	60.25
	Shear Investigation Result	PASSES

$(pn * bf * (d1 / 12)) = (1350 * 4.17 * (13.75 / 12))$
 $V / (b * d) = 6450.5 / (50 * 8.5)$
 $1.1 * \sqrt{f_c * 1000} = 1.1 * \sqrt{3 * 1000}$
check to see if Shear stress "v" is less than maximum "vc"

Peripheral Shear Investigation

d2	peripheral shear consideration dist (in)	14.00
V	Peripheral Shear (V)	21,637.5
v	Peripheral Shear stress (v)	45.46
vc	Maximum Peripheral Stress (vc)	109.54
	Peripheral Shear Investigation Result	PASSES

$(d + dcs) = (8.5 + 5.5)$
 $V * ((bf)^2 - (d2/12)^2) = 1350 * ((4.17)^2 - (14 / 12)^2)$
 $V / ((d2 * 4) * d) = 1350 / ((14 * 4) * 8.5)$
 $2 * \sqrt{f_c * 1000} = 2 * \sqrt{3 * 1000}$
check to see if Peripheral shear "v" is less than the maximum "vc"

Cantilever Moment Investigation

d3	Bending/dev. consideration dist (in)	22.25
M	Cantilever Moment (M)	9,676.9
As	Required Steel Area "As" (sq. in.)	0.78
	Total Number of bars required (min)	4
	Number of bars each way (min)	2
	Rule of thumb no. of bars each way	4
	Callout rebar to use each way	4

$(0.5 * b) - (0.5 * dcs) = (0.5 * 50) - (0.5 * 5.5)$
 $pn * bf * (d3/12) * (0.5 * (d3/12)) = 1350 * 4.17 * (22.25 / 12) * (0.5 * (22.25 / 12))$
 $M * 12 / ((f_s * 1000) * j * d) = (9676.9 * 12) / ((20 * 1000) * 0.9 * 8.5)$
total req. steel area divided by area of a bar, rounded up
total number of bars divided by two and rounded up
by preference, space rebar no more than footing thickness (h)
greater of calculated or preference rebar spacing to determine number of bars

ORIGINAL

Prepared by L.A.W. on 9/24/2004 at 1:09 PM

Alan Mascord Design Associates, Inc.
 1305 NW 18th Avenue
 Portland, OR 97209 (503) 225-9161

Isolated Footing Worksheet

Bearing Footing Information:

Project:	STOCK PLAN: 2441
Location:	FT6-FOOTING UNDER STUDY
Callout:	USE 50" x 50" x 12" CONC. FTG. W/ (4) #4 BARS EA. WAY

Rebar Grade	40
f_c (ksi)	3.00
f_s (ksi)	20.00
f_y (ksi)	40.00
rebar size (number)	4
Soil Bearing Pressure (psf)	1,500
d_{rc} Rebar Cover (in)	3.00

Steel Grade of reinforcing bars
 Specified Concrete compressive strength (kips/in²)
 Allowable tensile stress of steel reinforcement (kips/in²)
 Yield strength of steel reinforcement (kips/in²)
 bar number... the bar diameter in eighths of an inch.
 minimum rebar cover

Entered Values

d_{cs} Square Column Side Dimension (in)	5.50
j Value γ	0.90
w_c concrete weight (pcf)	150.00
P Column Load (lbs)	23,000.00
A_r Rebar cross section area	0.20

assumes a square section column or column with square bearing plate
 Lookup from table of Balanced Section Properties
 $(h/12) * 150$
 $\pi^2 = \pi * (0.5 * 0.5)^2$

Computed Values

D_r rebar diameter (in)	0.50
h footing height	12
d footing thickness less bar & cover	8.50
w_r Net Footing Pressure (psf)	150.00
p_n Net Usable Soil Pressure (psf)	1,350.00

rebar number divided by 8
 $h - (d_{rc} + D_r) = (12 - (3 + 0.5))$
 $(h/12) * w_c = (12/12) * 150$
 $(1500 - 150) = 1350$

b_p Req'd Footing "Pad" Plan Area (sf)	17.04
d_{pr} Req'd Length of Pad Side (in.)	49.54
b Length of Pad Side (in.) - rounded	50
b_f Length of Pad Side (ft.) - rounded	4.17
d_1 beam shear consideration dist (in)	13.75

$P / p_n = (23000 / 1500)$
 $((\sqrt{d_{pr}} * 12) = ((\sqrt{17.04}) * 12)$
 round d_{pr} up to whole inch
 express d_{pr} in square feet based upon rounded value
 $(0.5 * b) - ((0.5 * d_{cs}) + d) = (0.5 * 50) - ((0.5 * 5.5) + 8.5)$

Beam Shear Investigation

V Shear Force (V)	6,450.5
v Shear Stress (v)	15.18
v_c Maximum Stress (vc)	60.25
Shear Investigation Result	PASSES

$(p_n * b_f * (d_1 / 12)) = (1350 * 4.17 * (13.75 / 12))$
 $V / (b * d) = 6450.5 / (50 * 8.5)$
 $1.1 * \sqrt{(f_c * 1000)} = 1.1 * \sqrt{(3 * 1000)}$
 check to see if Shear stress "v" is less than maximum "vc"

Peripheral Shear Investigation

d_2 peripheral shear consideration dist (in)	14.00
V Peripheral Shear (V)	21,637.5
v Peripheral Shear stress (v)	45.46
v_c Maximum Peripheral Stress (vc)	109.54
Peripheral Shear Investigation Result	PASSES

$(d + d_{cs}) = (8.5 + 5.5)$
 $V * ((b_f)^2 * (d_2 / 12)^2) = 1350 * ((4.17)^2 * (14 / 12)^2)$
 $V / ((d_2 * 4) * d) = 1350 / ((14 * 4) * 8.5)$
 $2 * \sqrt{(f_c * 1000)} = 2 * \sqrt{(3 * 1000)}$
 check to see if Peripheral shear "v" is less than the maximum "vc"

Cantilever Moment Investigation

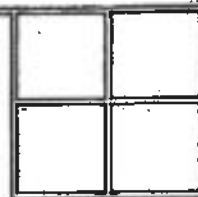
d_3 Bending/dev. consideration dist (in)	22.25
M Cantilever Moment (M)	9,676.9
A_s Required Steel Area "As" (sq. in.)	0.76
Total Number of bars required (min)	4
Number of bars each way (min)	2
Rule of thumb no. of bars each way	4
Callout rebar to use each way	4

$(0.5 * b) - (0.5 * d_{cs}) = (0.5 * 50) - (0.5 * 5.5)$
 $p_n * b_f * (d_3 / 12) * (0.5 * (d_3 / 12)) = 1350 * 4.17 * (22.25 / 12) * (0.5 * (22.25 / 12))$
 $M * 12 / ((f_s * 1000) * j * d) = (9676.9 * 12) / ((20 * 1000) * 0.9 * 8.5)$
 total req. steel area divided by area of a bar, rounded up
 total number of bars divided by two and rounded up
 by preference, space rebar no more than footing thickness (h)
 greater of calculated or preference rebar spacing to determine number of bars

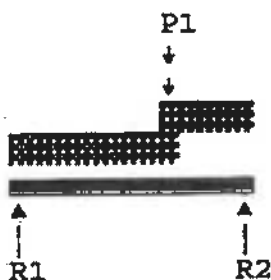
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: U1- WINDOW HDR AT BR. 3
 Date: 09-23-2004
 Calculation By: L.A.W.
 Comment: 3 1/8" X 9" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 3,740.3 lbs. Reaction R2 = 4,210.7 lbs.
 Total load = 7,951.0 lbs.
 Dimensions: Clear span = 6.0 feet, no overhang.

Point loads: P1 = 4,063.0 lbs. at 4.0 feet.
 No triangular loads.
 Uniform beam weight = 6 lbs/lf (= 36 lbs. total).
 Uniform loads: U2 = 200.0 lbs/lf at 4.0 feet to 6.0 feet.
 U1 = 863.0 lbs/lf at 0.0 feet to 4.0 feet.
 Deflection limit (live load plus dead load): 1/300.

.....
 BEAM TYPE LAM : GLULAM (2400 Fb)
 COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL

Shear (lbs)	4,210.7	FV	240.0	Area (Sq.In.)	26	27
Moment (ft-lbs)	8,009.3	FB	2,400.0	Sect.Modulus	40	40*
Deflection (in)	0.24	E	1.80E6	Mom.Inertia	109	176

.....
 Actual Maximum Deflection = 0.15 inches.
 Maximum Deflection occurs at 3.0 feet.
 Maximum Moment occurs at 4.0 feet.

MINIMUM BEAM SIZE (W x H): 3.125" by 8.769"

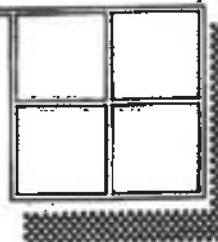
MINIMUM BEAM AREA (Sq.In.): 27.40

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

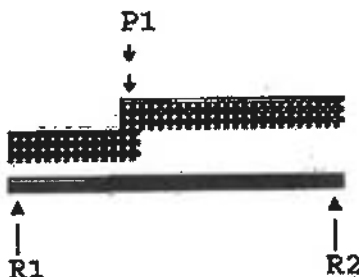
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2411
 Location: U3- BM AT UPPER PORCH BY STAIRS
 Date: 09-23-2004
 Calculation By: L.A.W.
 Comment: 5 1/8" X 9" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 4,367.0 lbs. Reaction R2 = 2,355.2 lbs.
 Total load = 6,722.3 lbs.
 Dimensions: Clear span = 8.5 feet, no overhang.

Point loads: P1 = 3,375.0 lbs. at 3.0 feet.
 No triangular loads.
 Uniform beam weight = 9 lbs/lf (= 72.25 lbs. total).
 Uniform loads: U2 = 200.0 lbs/lf at 3.0 feet to 8.5 feet.
 U1 = 725.0 lbs/lf at 0.0 feet to 3.0 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE LAM : GLULAM (2400 Fb)		DESIGN VAL.		PROPERTIES	REQUIRED	ACTUAL
COMPUTED STRESS/STRAIN						
Shear (lbs)	4,367.0	FV	240.0	Area (Sq.In.)	27	40
Moment (ft-lbs)	9,800.3	FB	2,400.0	Sect.Modulus	49	53
Deflection (in)	0.28	E	1.80E6	Mom.Inertia	211	211*

Actual Maximum Deflection = 0.28 inches.
 Maximum Deflection occurs at 4.0 feet.
 Maximum Moment occurs at 3.0 feet.

MINIMUM BEAM SIZE (W x H): 5.125" by 7.902"

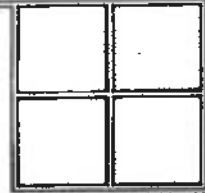
MINIMUM BEAM AREA (Sq.In.): 40.50

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

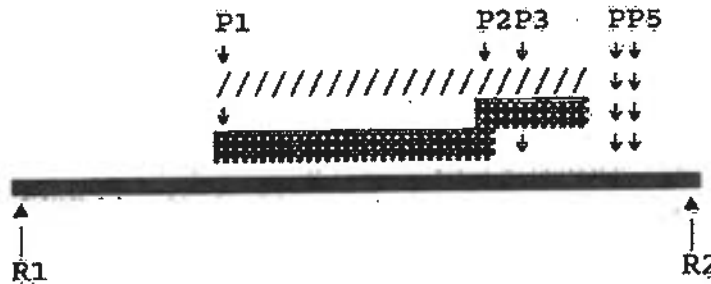
ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2111
 Location: U5- MAIN BM OVER BONUS
 Date: 09-23-2004
 Calculation By: L.A.W.
 Comment: 5 1/8" X 16 1/2" 24F GLU-LAM OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 5,624.8 lbs. Reaction R2 = 6,014.2 lbs.
 Total load = 11,639.0 lbs.
 Dimensions: Clear span = 18.0 feet, no overhang.

Point loads: P1 = 2,101.0 lbs. at 5.5 feet.
 P2 = 621.0 lbs. at 12.5 feet.
 P3 = 77.0 lbs. at 13.5 feet.
 P4 = 110.0 lbs. at 16.0 feet.
 P5 = 279.0 lbs. at 16.5 feet.
 Triangular load: W = 1,128.0 lbs. at 5.5 feet to 15.0 feet.
 Uniform beam weight = 323 lbs/lf (= 5814 lbs. total).
 Uniform loads: U2 = 192.0 lbs/lf at 12.5 feet to 15.0 feet.
 U1 = 147.0 lbs/lf at 5.5 feet to 12.5 feet.
 Deflection limit (live load plus dead load): 1/360.

BEAM TYPE LAM : GLULAM (2400 Fb)		COMPUTED STRESS/STRAIN		DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	6,014.2	FV	240.0	Area (Sq.In.)	38	79	
Moment (ft-lbs)	29,107.2	FB	2,400.0	Sect.Modulus	150	205	
Deflection (in)	0.60	E	1.80E6	Mom.Inertia	1,583	1,583*	

Actual Maximum Deflection = 0.60 inches.
 Maximum Deflection occurs at 9.0 feet.
 Maximum Moment occurs at 9.0 feet.
 Size Factor = 0.972

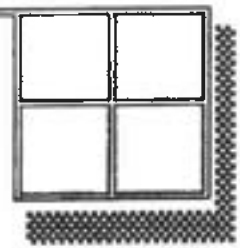
DETERMINING FACTOR = *

MINIMUM BEAM SIZE (W x H): 5.125" by 15.474"

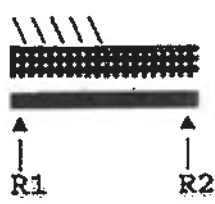
MINIMUM BEAM AREA (Sq.In.): 79.31

ORIGINAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: U7- BM OVER ATTIC BY BR. 2
 Date: 09-23-2004
 Calculation By: L.A.W.
 Comment: 4 X 10 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 1,151.0 lbs. Reaction R2 = 1,119.3 lbs.
 Total load = 2,270.3 lbs.
 Dimensions: Clear span = 4.5 feet, no overhang.

No point loads.
 Triangular load: W = 45.0 lbs. at 2.0 feet to 0.0 feet.
 Uniform beam weight = 5 lbs/lf (= 20.25 lbs. total).
 Uniform loads: U1 = 490.0 lbs/lf at 0.0 feet to 4.5 feet.
 Deflection limit (live load plus dead load): 1/300.

BEAM TYPE WOOD: DFL-SINGL 4X #2		COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL				
Shear (lbs)	1,151.0	FV	95.0	Area (Sq.In.)	18	18*
Moment (ft-lbs)	1,253.9	FB	990.0	Sect.Modulus	15	16
Deflection (in)	0.18	E	1.60E6	Mom.Inertia	16	41

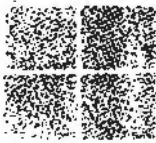
Actual Maximum Deflection = 0.07 inches.
 Maximum Deflection occurs at 2.0 feet.
 Maximum Moment occurs at 2.0 feet.

MINIMUM BEAM SIZE (W x H): 3.500" by 5.192"

MINIMUM BEAM AREA (Sq.In.): 18.17

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL



ALAN

Mascord

DESIGN ASSOCIATES, INC.

STOCK PLAN

2441

SHAKE ROOF

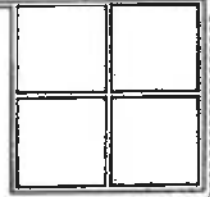
GRAVITY LOADS DESIGNED TO AFPA NDS-97 & NDS-01

FLOOR	-	40# LIVE, 10# DEAD
ROOF	-	25# SNOW
		15# DEAD (SHAKE/COMP)
		19# DEAD (CONC. TILE)
CEILING	-	20# LIVE, 10# DEAD
DECKS	-	60# LIVE, 10# DEAD
EXITS/STAIRS	-	100# TOTAL LOAD

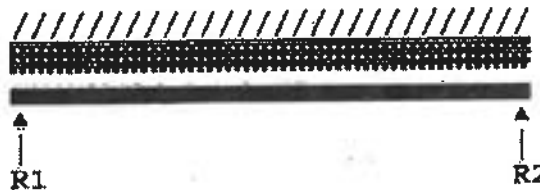
BEAM CALCULATIONS

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441
 Location: H1- MAIN HIP OVER BONUS
 Date: 09-23-2004
 Calculation By: L.A.W.
 Comment: 1 3/4" X 11 7/8" LVL OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 1,479.5 lbs. Reaction R2 = 2,216.5 lbs.
 Total load = 3,696.0 lbs.
 Dimensions: Clear span = 13.5 feet, no overhang.

No point loads.
 Triangular load: W = 2,211.0 lbs. at 0.0 feet to 13.5 feet.
 No uniform beam weight.
 Uniform loads: U1 = 110.0 lbs/lf at 0.0 feet to 13.5 feet.
 Deflection limit (live load plus dead load): 1/240.

BEAM TYPE LVL : 1.8E MICROLAM LVL

COMPUTED STRESS/STRAIN	DESIGN VAL.	PROPERTIES	REQUIRED	ACTUAL
Shear (lbs)	2,216.5 FV	285.0 Area (Sq.In.)	12	18
Moment (ft-lbs)	6,292.7 FB	2,600.0 Sect.Modulus	29	32
Deflection (in)	0.68 E	1.80E6 Mom.Inertia	168	168*

Actual Maximum Deflection = 0.67 inches.
 Maximum Deflection occurs at 7.0 feet.
 Maximum Moment occurs at 7.5 feet.

MINIMUM BEAM SIZE (W x H): 1.750" by 10.483"

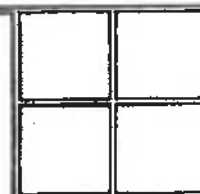
MINIMUM BEAM AREA (Sq.In.): 18.34

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL

B E A M A N A L Y S I S v1.5 STRUCTURAL

PREPARED BY: Alan Mascord Design Associates, Inc.
 (503) 225-9161 Portland, OR
 Client: STOCK PLAN
 Project: 2441.
 Location: H3- HIP OVER RER BONUS
 Date: 09-23-2004
 Calculation By: L.A.W.
 Comment: 2 X 12 DF #2 OK



BEAM AND LOAD DIAGRAM



Reaction R1 = 310.7 lbs. Reaction R2 = 621.3 lbs.
 Total load = 932.0 lbs.
 Dimensions: Clear span = 8.5 feet, no overhang.

No point loads.
 Triangular load: W = 932.0 lbs. at 0.0 feet to 8.5 feet.
 No uniform beam weight.
 No uniform loads.
 Deflection limit (live load plus dead load): 1/240.

BEAM TYPE WOOD: DFL-SINGL 2X12 #2

COMPUTED STRESS/STRAIN DESIGN VAL. PROPERTIES REQUIRED ACTUAL

Shear (lbs)	621.3	FV	95.0	Area (Sq.In.)	10	11
Moment (ft-lbs)	1,013.2	FB	990.0	Sect.Modulus	12	12*
Deflection (in)	0.43	E	1.60E6	Mom.Inertia	19	43

Actual Maximum Deflection = 0.19 inches.
 Maximum Deflection occurs at 4.5 feet.
 Maximum Moment occurs at 5.0 feet.

MINIMUM BEAM SIZE (W x H): 1.500" by 7.009"

MINIMUM BEAM AREA (Sq.In.): 10.51

VERIFY WITH BUILDING OFFICIAL PRIOR TO MAKING MATERIAL SUBSTITUTIONS

ORIGINAL!

USGS Design Maps Summary Report

User-Specified Input

Report Title 15-0284 WAKEFIELD RESIDENCE

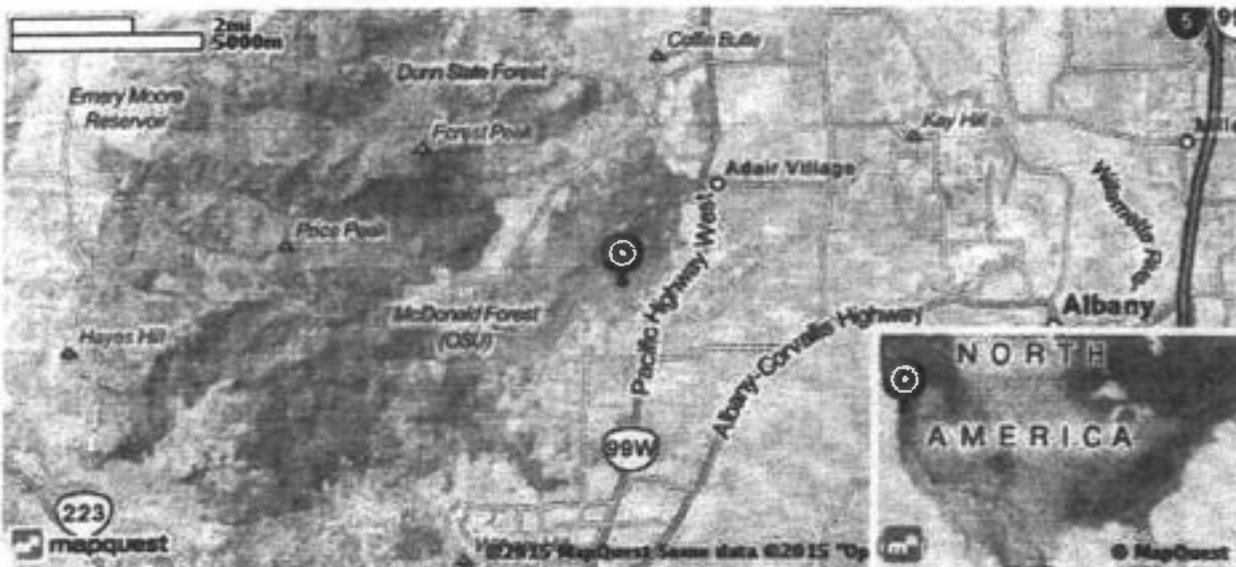
Tue April 14, 2015 19:45:56 UTC

Building Code Reference Document ASCE 7-10 Standard
(which utilizes USGS hazard data available in 2008)

Site Coordinates 44.64536°N, 123.24956°W

Site Soil Classification Site Class D - "Stiff Soil"

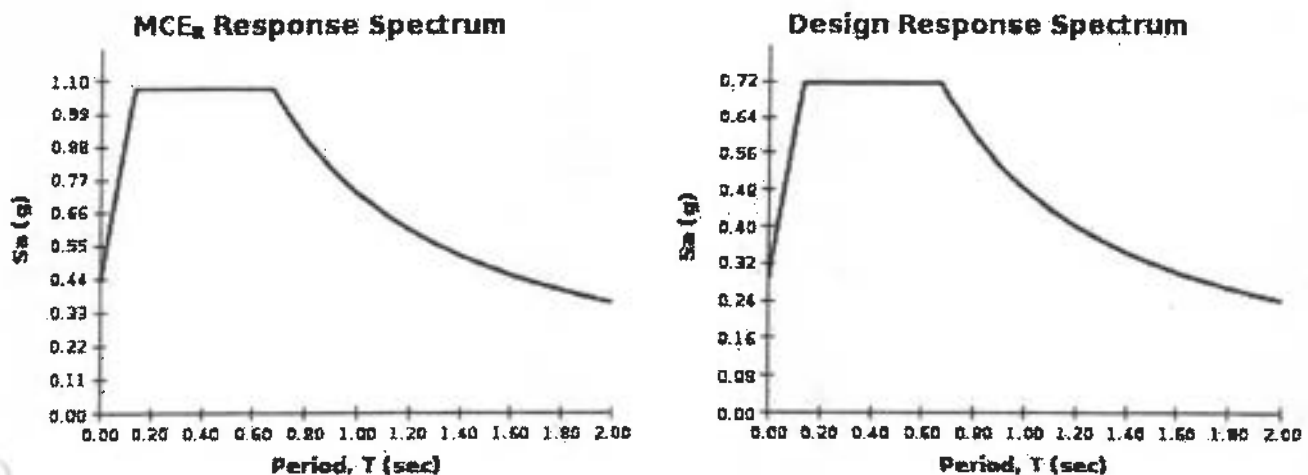
Risk Category I/II/III



USGS-Provided Output

$$\begin{array}{lll}
 S_s = 0.964 \text{ g} & S_{MS} = 1.075 \text{ g} & S_{DS} = 0.716 \text{ g} \\
 S_1 = 0.472 \text{ g} & S_{M1} = 0.721 \text{ g} & S_{D1} = 0.481 \text{ g}
 \end{array}$$

For information on how the S_s and S_1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



For PGA_w , T_L , C_{RS} , and C_{R1} values, please view the detailed report.

STABILITY ENGINEERING INC.

P.O. Box 2646 Corvallis, Oregon 97339
 p: 541.223.5360 f: 541.223.5278

PROJECT: 15-0284 WAKEFIELD RESIDENCE
 GENERAL BUILDING DATA

DATE: 4/14/15
 Name: CK

Snow Load	25	psf	Plate	Roof
Allowable Soil Pressure	1500	psf		Max. H ₂ O
Occupancy Category	2		Roof	0
			3rd fl	20
			2nd fl	10
			1st fl	0

LATERAL LOAD SUMMARY

---WIND(OSSC 14, SIMPLIFIED)---

Basic Wind Speed: 120 mph
 Adjustment Factor: 1
 Importance Factor: 1
 K_z #: 1

Wind Exposure: b
 Roof Slope: 10 12
 Degrees: 39.80557
 Load combination factor: 0.7

$$P_f = \lambda \times L_s \times K_z \times P_{max}$$

Load Case I	P _{max}	Zones									
		Horizontal Pressures				Vertical Pressures				Overhangs	
		A	B	C	D	E	F	G	H	E _{top}	E _{bot}
	25.7	17.8	20.4	14	2	-15.6	0.7	-13.4	-8	-10.3	
	28.7	17.8	25.4	14.0	2.0	-15.6	0.7	-13.4	-9.0	-10.3	

Story	FRONT WALLS		BACK WALLS		Exp. Width	Shear	Exp. Width	Shear
	Exp. Width (ft)	Shear (k)	Exp. Width (ft)	Shear (k)				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	23.0	5.4	23.0	5.4	0.0	0.0	0.0	0.0
1	23.0	3.7	23.0	3.7	0.0	0.0	0.0	0.0

---SEISMIC(OSSC 14)---

Seismic Design Category: D
 The short period spectral acceleration (S_s): 0.964
 1-sec spectral acceleration (S₁): 0.472
 Design Spectral Analysis Short Period Time(S_{DB}): 0.77
 Design Spectral Analysis 1-sec Time(S_{DB}): 0.50

Seismic Soil Classification Sc: D
 Lateral Restraint Factor (R): 8.5
 Importance Factor (I): 1
 Structural Period (T): 0.3081

Roof Dead Load(psf): 15
 Exterior wall Dead Load(psf): 12
 Floor Dead Load(psf): 12
 Interior wall Dead Load(psf): 10

Total Dead Load(K): 129.38
 (W)

Design Base Shear(K): 15
 (0.12 x W)

Shear Force Distribution:

Story	Weight (k)	Height (ft)	Force		Summation	Force F ₁ (k)	FRONT WALLS		BACK WALLS		Weight (k)	Shear (k)	Weight (k)	Shear (k)
			F ₁ (k)	F ₂ (k)			Weight (k)	Shear (k)	Weight (k)	Shear (k)				
3	0.0	0	0	0	0	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	53.3	20	9	9	9	9	37.84	6.38	37.84	6.38	0.00	0.00	0.00	0.00
1	76.1	10	6	16	12	12	47.68	4.02	47.68	4.02	0.00	0.00	0.00	0.00

Redundancy Calculation:

	Area	F ₁ (k)	F ₂ (k)	R
3rd fl	0	0	0	
2nd fl	2123	8.8515	0	1
1st fl	0	6.3965	0	1

Redundancy Factor(r): 1.00

Project: 15-0284 WAKEFIELD RESIDENCE
 Loading Direction: R-L
 Loading Area: BACK WALLS

Date: 4/14/15
 Name: CK



P.O. Box 2646 Corvallis, Oregon 97339
 p: 541.223.5360 f: 541.223.5278

WALL DESIGN

										3RD	2ND	1ST	
										Length of Bolt(in):			
										3	3	3	
										(in Vertical Wood Member)			
										Anchor Bolt Capacity(lbs):			
										Strap options (18" Span)			
										MSTA49	2020 LB		
										MSTC28	1540 LB		
										MSTC40	3080 LB		
										MSTC52	4620 LB		
										MSTC68	5860 LB		
										MSTC78	5880 LB		
										Seismic			
										Wall			
										HD			
Group	L	D	W	H _{open}	C _w	FR _{trib}	Y/N	V _{wind}	HD _{wind}	V _{seis}	HD _{seis}	Type	HD Type
	0	0	0	0	1			0					
	1	0	0	0	0	1	3	0					
		0	0	0	0	1		0					
		0	0	0	0	1		0					
	2	0	0	0	0	1	3	0					
		0	0	0	0	1		0					
		0	0	0	0	1		0					
	3	0	0	0	0	1	3	n	0				
		0	0	0	0	1		0					
4	0	0	0	0	1			0					
5	0	0	0	0	1	3		0					
6	0	0	0	0	1			0					
7	0	0	0	0	1			0					
8	0	0	0	0	1	3		0					
9	0	0	0	0	1			0					
2ND	6	0	0	0	1		N	539	5.3	455	4.2	SW4	HDU5
	1	4	0	0	0	1	3	539	5.3	455	4.3	SW4	HDU5
		0	0	0	0	1		0		0			
	Transverse:Y	0	0	0	0	1		0		0			
	Total Length: 10 ft	2	0	0	0	0	1	3	0		0		
	Effective Length: 10 ft	0	0	0	0	0	1	0		0			
	Roof Height: 18 ft	0	0	0	0	0	1	0		0			
	Wall Height: 10 ft	3	0	0	0	0	1	3	0		0		
		0	0	0	0	0	1	0		0			
Tributary Width: 23 ft	4	0	0	0	0	1		0		0			
Wind Force: 6.39 K	5	0	0	0	0	1	3	0		0			
Roof Area: 1527 ft2	8	0	0	0	0	1		0		0			
Wall Area: 2505 ft2	7	0	0	0	0	1		0		0			
Floor Area: 0 ft2	8	0	0	0	0	1	3	0		0			
Seismic Force: 4.55 K	9	0	0	0	0	1		0		0			
1ST	6	0	0	0	1			484	9.9	484	8.4	SW4	HDU14-5.5
	1	4	0	0	0	1	3	484	10.0	464	8.7	SW4	HDU14-5.5
		7	0	0	0	1		484	4.5	484	4.2	SW4	HDU4
	Transverse:Y	5	0	0	0	1		187	1.5	196	1.6	SW1	DTT22-1.5
	Total Length: 22 ft	2	0	0	0	0	1	3	0	0.0	0	0.0	
	Effective Length: 22 ft	0	0	0	0	0	1	0	0.0	0	0.0		
		0	0	0	0	0	1	0	0.0	0	0.0		
	Wall Height: 10 ft	3	0	0	0	0	1	3	0	0.0	0	0.0	
		0	0	0	0	0	1	0	0.0	0	0.0		
Tributary Width: 23 ft	4	0	0	0	0	1		0	0.0	0	0.0		
Wind Force: 3.67 K	5	0	0	0	0	1	3	0	0.0	0	0.0		
Roof Area: 342 ft2	8	0	0	0	0	1		0	0.0	0	0.0		
Wall Area: 2500 ft2	7	0	0	0	0	1		0	0.0	0	0.0		
Floor Area: 1080 ft2	8	0	0	0	0	1	3	0	0.0	0	0.0		
Seismic Force: 4 K	9	0	0	0	0	1		0	0.0	0	0.0		

Definitions

L: Wall Length H_{open}: Opening height V_{wind}: Wind Shear V_{seis}: Seismic Shear FR_{trib}: Framing Tributary Width
 D: Door Length W: Window Length HD_{wind}: Hold-Down Force(wind) HD_{seis}: Hold-Down Force(seismic) Load Combo: 6D + 7E, 8D + W

Project: 15-0284 WAKEFIELD RESIDENCE
 Loading Direction: F-B
 Loading Area: LEFT WALLS

Date: 4/16/15
 Name: CK



P.O. Box 2646 Corvallis, Oregon 97339
 p: 541.223.5360 f: 541.223.5278

WALL DESIGN

Nailing:		10		3RD		2ND		1ST			
Sheathing:	7/16	Rated	DTT22-1.5	1825 lb	Length of Bolt(in):			3	3	3	
Capacity(plf):			DTT22-3.0	2145 lb	(In Vertical Wood Member)						
SW1	240	SW5	700	HDU2	3075 lb	Anchor Bolt Capacity(lbs):					
SW2	350	SW6	800	HDU4	4565 lb	Strap options (16" Span)					
SW3	450	SW7	1170	HDU5	5645 lb	MSTA49	2020 LB				
SW4	585			HDU8-3.5	6970 lb	MSTC28	1540 LB				
Thickness of Sill Plate (in):	1.5			HDU8-5.5	7870 lb	MSTC40	3080 LB				
Sill Bolt Size (in):	0.5			HDU11-5.5	9535 lb	MSTC52	4620 LB				
Sill Bolt Capacity (lbs/bolt):	644			HDU14-5.5	14445 lb	MSTC66	5680 LB				
Max. Sill Bolt Spacing (in):	22			HD19-1 1/8	18775 lb	MSTC78	5860 LB				
Transverse Direction:				HD19-1 1/4	19070 lb						
	L	D	W	H _{open}	C _c	FR _{trib}	Offset Y/N	Wind V _{seis}	Seismic HD _{seis}	Wall Type	HD Type
	0	0	0	0	1		n	0			
1	0	0	0	0	1	3	n	0			
	0	0	0	0	1		n	0			
2	0	0	0	0	1	3	n	0	0		
	0	0	0	0	1		n	0	0		
3	0	0	0	0	1	3	n	0			
	0	0	0	0	1		n	0			
4	0	0	0	0	1			0			
5	0	0	0	0	1	3		0			
6	0	0	0	0	1			0			
7	0	0	0	0	1			0			
8	0	0	0	0	1	3		0			
9	0	0	0	0	1			0			
	12.5	0	0	0	1		n	206	1.8	96	0.2
1	0	0	0	0	1	3		0	0	SW1	DTT22-3.0
2ND	0	0	0	0	1			0	0		
Transverse:Y	0	0	0	0	1			0	0		
Total Length: 12.5 ft	2	0	0	0	1	3		0	0		
Effective Length: 12.5 ft	0	0	0	0	1			0	0		
Roof Height: 18 ft	0	0	0	0	1			0	0		
Wall Height: 10 ft	3	0	0	0	1	3		0	0		
	0	0	0	0	1			0	0		
Tributary Width: 11 ft	4	0	0	0	1			0	0		
Wind Force: 2.56 K	5	0	0	0	1	3		0	0		
Roof Area: 398 ft ²	6	0	0	0	1			0	0		
Wall Area: 666 ft ²	7	0	0	0	1			0	0		
Floor Area: 0 ft ²	8	0	0	0	1	3		0	0		
Seismic Force: 1.20 K	9	0	0	0	1			0	0		
	0	0	0	0	1			0	4.2	0	1.1
1	3	0	0	0	1	3		510	5.0	287	2.7
1ST	5.5	0	0	0	1			510	4.9	287	2.5
Transverse:Y	0	0	0	0	1			0	0.0	0	0.0
Total Length: 8.5 ft	2	0	0	0	1	3		0	0.0	0	0.0
Effective Length: 8.5 ft	0	0	0	0	1			0	0.0	0	0.0
	0	0	0	0	1			0	0.0	0	0.0
Wall Height: 10 ft	3	0	0	0	1	3	n	0	0.0	0	0.0
	0	0	0	0	1			0	0.0	0	0.0
Tributary Width: 11 ft	4	0	0	0	1			0	0.0	0	0.0
Wind Force: 1.76 K	5	0	0	0	1	3		0	0.0	0	0.0
Roof Area: 171 ft ²	6	0	0	0	1			0	0.0	0	0.0
Wall Area: 663 ft ²	7	0	0	0	1			0	0.0	0	0.0
Floor Area: 278 ft ²	8	0	0	0	1	3		0	0.0	0	0.0
Seismic Force: 1.25 K	9	0	0	0	1			0	0.0	0	0.0

Definitions

L: Wall Length H_{open}: Opening height V_{seis}: Wind Shear V_{seis}: Seismic Shear FR_{trib}: Framing Tributary Width
 D: Door Length W: Window Length HD_{wind}: Hold-Down Force(wind) HD_{seis}: Hold-Down Force(seismic) Load Combo: 6D + .7E, 6D + W

Project: 15-0284 WAKEFIELD RESIDENCE
 Loading Direction: F-B
 Loading Area: MID-RIGHT WALLS

Date: 4/14/15
 Name: CK



P.O. Box 2646 Corvallis, Oregon 97339
 p: 541.223.5360 f: 541.223.5278


WALL DESIGN

Nailing: 10		3RD		2ND		1ST							
Sheathing Thickness(in):	7/16	Rated	DTT2Z-1.5	1825 lb	Length of Bolt(in):	3	3	3					
Capacity(psf):			DTT2Z-3.0	2145 lb	(In Vertical Wood Member)								
SW1	240	SW5	700 HDU2	3075 lb	Anchor Bolt Capacity(lbs):								
SW2	350	SW6	900 HDU4	4565 lb	Strap options (18" Spacing)								
SW3	450	SW7	1170 HDU5	5845 lb	MSTA48	2020 LB							
SW4	585		HDU8-3.5	6970 lb	MSTC28	1540 LB							
Thickness of Sill Plate(in):	1.5		HDU8-5.5	7870 lb	MSTC40	3080 LB							
Sill Bolt Size (in):	0.5		HDU11-5.5	8535 lb	MSTC52	4620 LB							
Sill Bolt Capacity (lb/bolt):	944		HDU14-5.5	14448 lb	MSTC66	5860 LB							
Max. Sill Bolt Spacing (in):	35		HD18-1 1/8	18775 lb	MSTC78	5960 LB							
			HD18-1 1/4	19070 lb									
C _u	L	D	W	H _{op}	C _o	FR _{trib}	Offset	Wind	Seismic	Wall	HD		
							Y/N	V _{seis}	HD _{seis}	Type	Type		
	0	0	0	0	1.00		n	0					
1	0	0	0	0	1.00	3	n	0					
	0	0	0	0	1.00		n	0					
	0	0	0	0	1.00		n	0					
2	0	0	0	0	1.00	3	n	0					
	0	0	0	0	1.00		n	0					
	0	0	0	0	1.00		n	0					
3	0	0	0	0	1.00	3	n	0					
	0	0	0	0	1.00			0					
4	0	0	0	0	1.00			0					
5	0	0	0	0	1.00	3		0					
6	0	0	0	0	1.00			0					
7	0	0	0	0	1.00			0					
8	0	0	0	0	1.00	3		0					
9	0	0	0	0	1.00			0					
	48	0	0	0	1.00		N	112	0.3	73	0.0	SW1	DTT2Z-1.5
1	0	0	0	0	1.00	3		0		0			
0	0	0	0	0	1.00			0		0			
2ND													
Transverse:Y	0	0	0	0	1.00			0		0			
Total Length: 48 ft													
Effective Length: 48 ft													
Roof Height: 18 ft													
Wall Height: 10 ft													
3	0	0	0	0	1.00	3		0		0			
	0	0	0	0	1.00			0		0			
Tributary Width: 22 ft													
Wind Force: 5.15 K													
Roof Area: 1128 ft ²													
Wall Area: 1639 ft ²													
Floor Area: 0 ft ²													
Seismic Force: 3.35 K													
4	0	0	0	0	1.00			0		0			
1	13	0	0	0	1.00	3		370	3.8	253	2.3	SW2	HDU4
5	0	0	0	0	1.00			370	3.2	253	1.7	SW2	HDU4
6	0	0	0	0	1.00			370	3.5	253	2.2	SW2	HDU4
Transverse:Y	8	0	0	0	1.00			136	1.1	100	0.6	SW1	DTT2Z-1.5
Total Length: 28 ft													
Effective Length: 28 ft													
	0	0	0	0	1.00			0		0	0.0		
	0	0	0	0	1.00			0		0	0.0		
Wall Height: 10 ft													
3	0	0	0	0	1.00	3		0		0	0.0		
	0	0	0	0	1.00			0		0	0.0		
Tributary Width: 29 ft													
Wind Force: 3.81 K													
Roof Area: 171.0 ft ²													
Wall Length: 1378 ft													
Floor Area: 784 ft ²													
Seismic Force: 2.81 K													
4	0	0	0	0	1.00			0		0	0.0		
5	0	0	0	0	1.00	3		0		0	0.0		
6	0	0	0	0	1.00			0		0	0.0		
7	0	0	0	0	1.00			0		0	0.0		
8	0	0	0	0	1.00			0		0	0.0		
9	0	0	0	0	1.00	3		0		0	0.0		
9	0	0	0	0	1.00			0		0	0.0		

Definitions

L: Wall Length H_{op}: Opening height V_{seis}: Wind Shear V_{seis}: Seismic Shear FR_{trib}: Framing Tributary Width
 D: Door Length W: Window Length HD_{wind}: Hold-Down Force(wind) HD_{seis}: Hold-Down Force(seismic) Load Combo: .6D + .7E, .6D + W

Project: 15-0284 WAKEFIELD RESIDENCE
 Location: BALCONY ROOF BEAM
 Roof Beam
 [2009 International Building Code(2005 NDS)]
 1 IN x 9.5 IN x 8.0 FT
 - Douglas-Fir-Larch - Dry Use
 Section Adequate By: 97.5%
 Controlling Factor: Moment



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 Corvallis, Oregon 97339

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DEFLECTIONS		Center
Live Load	0.04	IN L/2379
Dead Load	0.03	in
Total Load	0.07	IN L/1439
Live Load Deflection Criteria: L/240		Total Load Deflection Criteria: L/180

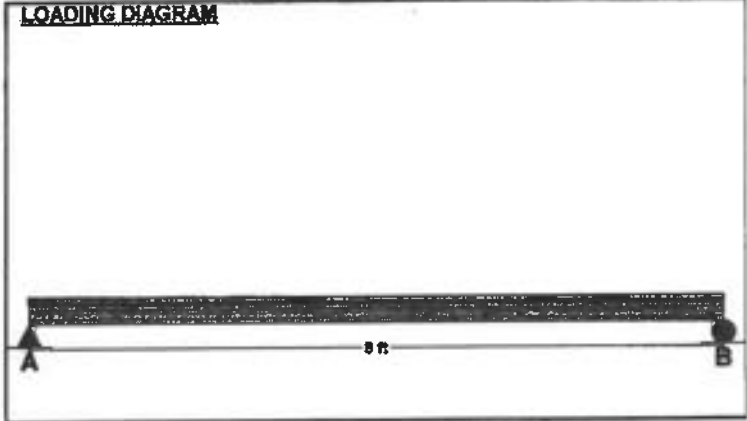
REACTIONS		A	B
Live Load	850 lb	850 lb	
Dead Load	555 lb	555 lb	
Total Load	1405 lb	1405 lb	
Bearing Length	0.41 in	0.41 in	

BEAM DATA	
Span Length	8 ft
Unbraced Length-Top	0 ft
Unbraced Length-Bottom	0 ft
Roof Pitch	0 :12
Roof Duration Factor	1.15

MATERIAL PROPERTIES		Base Values	Adjusted
Bending Stress:	Fb =	875 psi	Fb' = 805 psi
	CD=1.15 CF=1.00 CI=0.80		
Shear Stress:	Fv =	170 psi	Fv' = 156 psi
	CD=1.15 CI=0.80		
Modulus of Elasticity:	E =	1300 ksi	E' = 1235 ksi
Min. Mod. of Elasticity:	E_min =	470 ksi	E_min' = 447 ksi
	CI=0.85		
mp. ⊥ to Grain:	Fc ⊥ =	625 psi	Fc ⊥' = 625 psi

Controlling Moment: 2811 ft-lb
 4.0 ft from left support
 Created by combining all dead and live loads.
 Controlling Shear: 1152 lb
 At a distance d from support.
 Created by combining all dead and live loads.

Comparisons with required sections:	Req'd	Provided
Section Modulus:	41.9 in3	82.73 in3
Area (Shear):	11.05 in2	52.25 in2
Moment of Inertia (deflection):	49.15 in4	392.96 in4
Moment:	2811 ft-lb	5550 ft-lb
Shear:	1152 lb	5448 lb




ROOF LOADING	
Side One:	
Roof Live Load: LL =	25 psf
Roof Dead Load: DL =	15 psf
Tributary Width: TW =	7.5 ft
Side Two:	
Roof Live Load: LL =	25 psf
Roof Dead Load: DL =	15 psf
Tributary Width: TW =	1 ft
Wall Load: WALL =	0 plf

SLOPE/PITCH ADJUSTED LENGTHS AND LOADS	
Adjusted Beam Length:	Ladj = 8 ft
Beam Self Weight:	BSW = 11 plf
Beam Uniform Live Load:	wL = 213 plf
Beam Uniform Dead Load:	wD_adj = 139 plf
Total Uniform Load:	wT = 351 plf

NOTES

Project: 15-0284 WAKEFIELD RESIDENCE
 Location: BALCONY ROOF POST
 Column
 2009 International Building Code(2005 NDS)
 6 IN x 5.5 IN x 9.0 FT
 -- Hem-Fir - Dry Use
 Section Adequate By: 74.0%



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VERTICAL REACTIONS

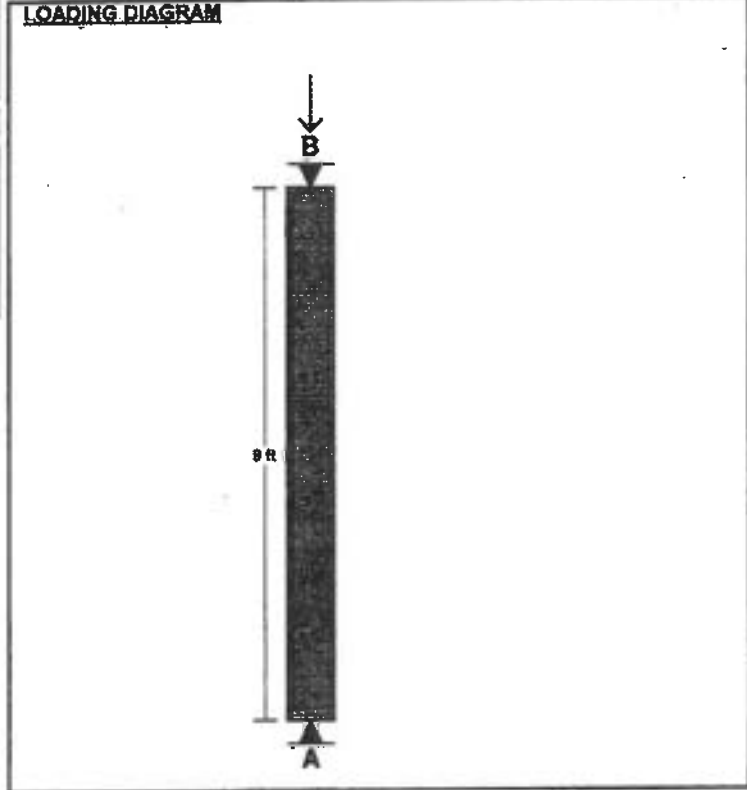
Live Load:	Vert-LL-Rxn = 1600 lb
Dead Load:	Vert-DL-Rxn = 1141 lb
Total Load:	Vert-TL-Rxn = 2741 lb

COLUMN DATA

Total Column Length:	9 ft
Unbraced Length (X-Axis) Lx:	9 ft
Unbraced Length (Y-Axis) Ly:	9 ft
Column End Condition-K (e):	1
Load Eccentricity (X-Axis) - ex:	0.5 in
Load Eccentricity (Y-Axis) - ey:	0.5 in
Axial Load Duration Factor:	1.15

COLUMN PROPERTIES
 #2 - Hem-Fir

	Base Values	Adjusted
Compressive Stress:	Fc = 575 psi Cd=1.15 Cp=0.81 Cf=0.80	Fc' = 431 psi
Bending Stress (X-X Axis):	Fbx = 575 psi Cd=1.15 Cf=1.00 Ci=0.80	Fbx' = 529 psi
Bending Stress (Y-Y Axis):	Fby = 575 psi Cd=1.15 Cf=1.00 Ci=0.80	Fby' = 529 psi
Modulus of Elasticity:	E = 1100 ksi	E' = 1045 ksi
Min. Mod. of Elasticity:	E_min = 400 ksi	E_min' = 380 ksi
Column Section (X-X Axis):	dx = 5.5 in	
Column Section (Y-Y Axis):	dy = 5.5 in	
Area:	A = 30.25 in ²	
Section Modulus (X-X Axis):	Sx = 27.73 in ³	
Section Modulus (Y-Y Axis):	Sy = 27.73 in ³	
Slenderness Ratio:	L _{ex} /dx = 19.64 L _{ey} /dy = 19.64	



AXIAL LOADING

Live Load:	PL = 1600 lb
Dead Load:	PD = 1090 lb
Column Self Weight:	CSW = 51 lb
Total Load:	PT = 2741 lb

Column Calculations (Controlling Case Only):
 Controlling Load Case: Axial Total Load Only (L + D)

Actual Compressive Stress:	Fc = 91 psi
Allowable Compressive Stress:	Fc' = 431 psi
Eccentricity Moment (X-X Axis):	Mx-ex = 112 ft-lb
Eccentricity Moment (Y-Y Axis):	My-ey = 112 ft-lb
Moment Due to Lateral Loads (X-X Axis):	Mx = 0 ft-lb
Moment Due to Lateral Loads (Y-Y Axis):	My = 0 ft-lb
Bending Stress Lateral Loads Only (X-X Axis):	Fbx = 0 psi
Allowable Bending Stress (X-X Axis):	Fbx' = 529 psi
Bending Stress Lateral Loads Only (Y-Y Axis):	Fby = 0 psi
Allowable Bending Stress (Y-Y Axis):	Fby' = 529 psi
Combined Stress Factor:	CSF = 0.26

NOTES

Project: 15-0284 WAKEFIELD RESIDENCE

Location: BALCANY FLOOR BEAM

Uniformly Loaded Floor Beam

(2009 International Building Code(2005 NDS))

4 IN x 9.0 IN x 15.0 FT

-F-V4 - Visually Graded Western Species - Dry Use

Section Adequate By: 56.8%

Controlling Factor: Deflection

DEFLECTIONS		Center
Live Load	0.32	IN L/564
Dead Load	0.14	in
Total Load	0.46	IN L/391
Live Load Deflection Criteria: L/360		Total Load Deflection Criteria: L/240

REACTIONS		A	B
Live Load	1200	lb	1200 lb
Dead Load	530	lb	530 lb
Total Load	1730	lb	1730 lb
Bearing Length	0.48	in	0.48 in

BEAM DATA		Center
Span Length	15	ft.
Unbraced Length-Top	0	ft
Floor Duration Factor	1.00	
Camber Adj. Factor	1.5	
Camber Required	0.21	
Notch Depth	0.00	

MATERIAL PROPERTIES

24F-V4 - Visually Graded Western Species

	Base Values	Adjusted
Bending Stress:	Fb = 2400 psi	Controlled by:
	Fb_cmpr = 1850 psi	Fb' = 1920 psi
	Cd=1.00 Ci=0.80	
Shear Stress:	Fv = 265 psi	FV = 212 psi
	Cd=1.00 Ci=0.80	
Modulus of Elasticity:	E = 1800 ksi	E' = 1710 ksi
Min. Mod. of Elasticity:	E_min = 930 ksi	E_min' = 884 ksi
	Ci=0.95	
Comp. ⊥ to Grain:	Fc ⊥ = 650 psi	Fc ⊥' = 650 psi

Controlling Moment: 6489 ft-lb

7.5 ft from left support

Created by combining all dead and live loads.

Controlling Shear: 1557 lb

At a distance d from support.

Created by combining all dead and live loads.

Comparisons with required sections:	Req'd	Provided
Section Modulus:	40.56 in ³	74.25 in ³
Area (Shear):	11.02 in ²	49.5 in ²
Moment of Inertia (deflection):	213.12 in ⁴	334.13 in ⁴
Moment:	6489 ft-lb	11880 ft-lb
Shear:	1557 lb	6996 lb



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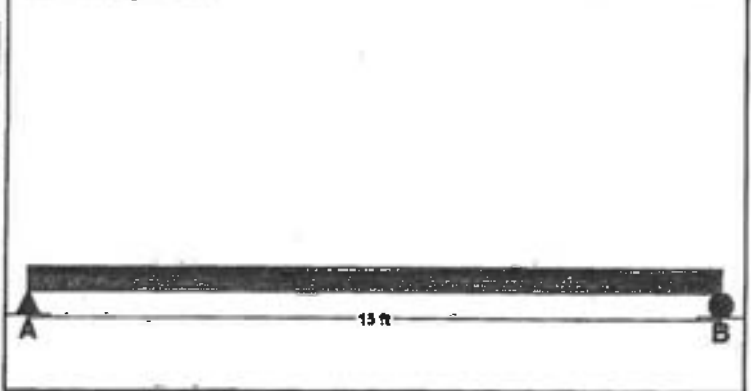
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LOADING DIAGRAM



FLOOR LOADING

		Side 1	Side 2
Floor Live Load	FLL =	40 psf	40 psf
Floor Dead Load	FDL =	15 psf	15 psf
Floor Tributary Width	FTW =	4 ft	0 ft
Wall Load	WALL =	0 plf	

BEAM LOADING

Beam Total Live Load:	wL =	160 plf
Beam Total Dead Load:	wD =	60 plf
Beam Self Weight:	BSW =	11 plf
Total Maximum Load:	wT =	231 plf

Project: 15-0284 WAKEFIELD RESIDENCE
 Location: BALCONY POST FOOTING
 Footing
 2009 International Building Code(2005 NDS)
 Footing Size: 3.0 FT x 3.0 FT x 12.00 IN
 Reinforcement: #4 Bars @ 9.00 IN. O.C. E/W / (4) min.
 Section Footing Design Adequate



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 P.O. Box 2646
 Corvallis, Oregon 97339

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FOOTING PROPERTIES	
Allowable Soil Bearing Pressure:	$Q_s = 1500$ psf
Concrete Compressive Strength:	$F'_c = 2500$ psi
Reinforcing Steel Yield Strength:	$F_y = 60000$ psi
Concrete Reinforcement Cover:	$c = 3$ in

FOOTING SIZE	
Width:	$W = 3$ ft
Length:	$L = 3$ ft
Depth:	$Depth = 12$ in
Effective Depth to Top Layer of Steel:	$d = 8.25$ in

COLUMN AND BASEPLATE SIZE	
Column Type:	Steel
Column Width:	$m = 6$ in
Column Depth:	$n = 6$ in
Baseplate Width:	$bsw = 6$ in
Baseplate Length:	$bsl = 6$ in

FOOTING CALCULATIONS

Bearing Calculations:

Ultimate Bearing Pressure:	$Q_u = 1006$ psf
Effective Allowable Soil Bearing Pressure:	$Q_e = 1350$ psf
Required Footing Area:	$A_{req} = 6.71$ sf
Area Provided:	$A = 9.00$ sf

Baseplate Bearing:

Bearing Required:	$Bear = 13105$ lb
Allowable Bearing:	$Bear-A = 99450$ lb

Beam Shear Calculations (One Way Shear):

Beam Shear:	$V_{u1} = 2457$ lb
Allowable Beam Shear:	$V_{c1} = 22275$ lb

Punching Shear Calculations (Two Way Shear):

Critical Perimeter:	$B_o = 57$ in
Punching Shear:	$V_{u2} = 11051$ lb
Allowable Punching Shear (ACI 11-35):	$vc2-a = 105806$ lb
Allowable Punching Shear (ACI 11-36):	$vc2-b = 137363$ lb
Allowable Punching Shear (ACI 11-37):	$vc2-c = 70538$ lb
Controlling Allowable Punching Shear:	$vc2 = 70538$ lb

Bending Calculations:

Factored Moment:	$M_u = 40953$ in-lb
Nominal Moment Strength:	$M_n = 336668$ in-lb

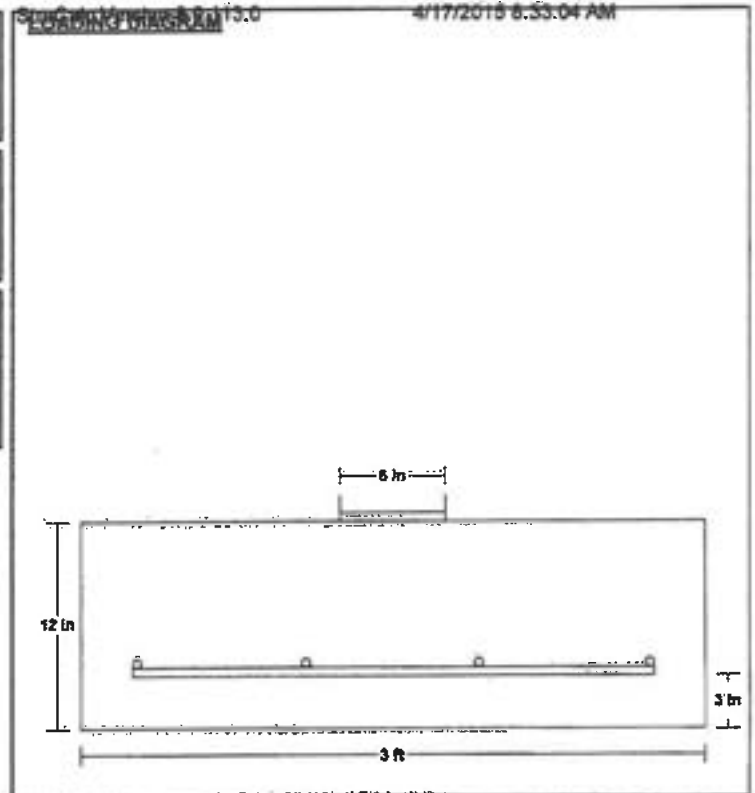
Reinforcement Calculations:

Concrete Compressive Block Depth:	$a = 0.62$ in
Steel Required Based on Moment:	$A_s(1) = 0.09$ in ²
Min. Code Req'd Reinf. Shrink./Temp. (ACI-10.5.4):	$A_s(2) = 0.78$ in ²
Controlling Reinforcing Steel:	$A_s-reqd = 0.78$ in ²
Selected Reinforcement:	#4's @ 9.0 in. o.c. e/w (4) Min.
Reinforcement Area Provided:	$A_s = 0.79$ in ²

Development Length Calculations:

Development Length Required:	$L_d = 15$ in
Development Length Supplied:	$L_d-sup = 12$ in

Note: Plain concrete adequate for bending, therefore adequate development length not required.



FOOTING LOADING	
Live Load:	$PL = 5600$ lb
Dead Load:	$PD = 3454$ lb
Total Load:	$PT = 9054$ lb
Ultimate Factored Load:	$P_u = 13105$ lb
Weight to resist uplift w/ 1.5 F.S.:	$U.R. = 870$ lb

NOTES

BARN



BENTON COUNTY, OREGON **2015-531634**
 DE-COV
 Cnt=1 Str=47 COUNTER2 **05/29/2016 02:22:08 PM**
 \$5.00 \$11.00 \$22.00 **\$38.00**

05300837201505316340010010

I, James V. Morales, County Clerk for Benton County, Oregon, certify that the instrument identified herein was recorded in the Clerk records.
 James V. Morales - County Clerk

COVENANT

Current Deeded Owner's Name: Bradley Thomas Wakefield and Kristie Close Wakefield,
 Permit Numbers: B1500482
 T11S, R5W, Section 01BC, Tax Lots 2000 & 2100

In consideration for the approval by Benton County of Building Permit No. B1500482 authorizing an accessory structure with a loft, the undersigned, being the legal owner(s) of the real property described below, including heirs, assigns and lessees, hereby consent and covenant as follows:

- (1) The subject property is approved for one single-family dwelling.
- (2) No portion of the accessory structure with a loft authorized by B1500482 shall be used as a secondary dwelling unit, including but not limited to a rental dwelling or a dwelling for a relative, unless a statement of release is signed as described below. Grantee acknowledges that such use would be in violation of Benton County land use regulations. Grantee recognizes that such violation may result in fines and mandatory modification of the structure.
- (3) No portion of the accessory structure with a loft authorized by B1500482 shall contain a second kitchen (defined by the installation or culinary use of a stove or range), and no 220-volt electrical lines nor gas lines shall be installed in any portion of the structure for the purpose of supporting a second kitchen.

Property Description: Described on document #2015-530434, Benton County Deed Records.

This covenant shall be binding upon the undersigned and their heirs, successors, and assigns as a covenant running with the land unless a statement of release is signed by the Planning Official upon determination that applicable land use laws or other circumstances have changed, or a land use application has been approved, such that a second dwelling may be authorized. Grantee, his successors, assigns or heirs, agrees to bear the entire cost, including but not limited to attorney fees, to Benton County, of any judicial proceeding which results in a determination that a violation of the covenant has occurred as a result of any conduct or action by Grantee, his agents, assigns or successors, or persons acting at the direction of the Grantee.

Owner Signature Printed Name Address
 1. Kristie Close Wakefield Kristie Close Wakefield 8784 NE Odell Wells Rd
 State of Oregon) Washington
 County of Benton) ss Kitson
Bradbridge Island, WA 98110

On May 20, 2015 before me a notary public personally appeared the above-named Kristie Close Wakefield and acknowledged the foregoing instrument to be a voluntary act and deed.

Before me: Peter C Sweney
 Notary Public of Washington

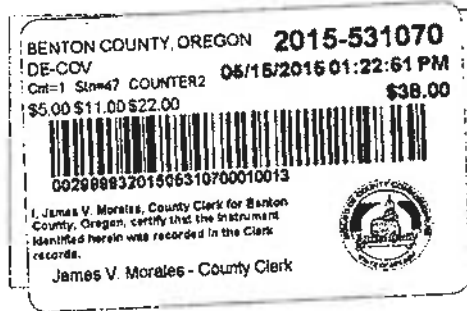


Owner Signature Printed Name Address
 2. Brad Wakefield Brad Wakefield 8754 NE Odell Wells Rd B.I. WA 98110
 State of Washington) Oregon
 County of Kitsap) ss Benton

On May 14, 2015 before me a notary public personally appeared the above-named Brad Wakefield and acknowledged the foregoing instrument to be a voluntary act and deed.

Before me: Debra A Huntsman
 Notary Public of Washington
Oregon





COVENANT

Current Deeded Owner's Name: Bradley Thomas Wakefield and Kristie Close Wakefield,
as tenants by the entirety,

File Number: B1500482

T11S, R5W, Section 01BC, Tax Lots 2000 & 2100

Be it known to all that the undersigned, being the legal owner(s) of the real property described below; hereby consent and covenant as follows:

In consideration for the approval by Benton County of Construction Permit B1500482 authorizing construction of an accessory building – identified as a Barn on the plot plan submitted with the building permit application – located on T11S, R5W, Section 01BC, Tax Lot 2100 to be accessory to the dwelling located on T11S, R5W, Section 01BC, Tax Lot 2000 the grantee, including heirs, assigns and lessees, recognizes that the properties listed above will be considered by the County as a single unit of land for all future land use purposes.

Prior to any sale or transfer of ownership for either tax lot separate from the other, the accessory building shall be (1) removed, and any new placement shall meet all applicable siting standards, (2) the property owner shall finalize a property line adjustment in order to meet the required setbacks for the zone, or (3) a dwelling shall be permitted and constructed on T11S, R5W, Section 01BC, Tax Lot 2100. This restriction is irrevocable unless a statement of release is signed by the Planning Official.

Property Description: As described on Document No. 2015-530434. (Benton County Plat Records)

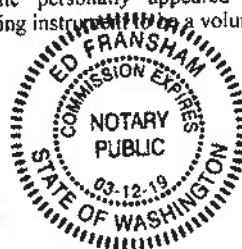
This covenant shall be binding upon the undersigned and their heirs, successors, and assigns as a covenant running with the land or released by Benton County and/or as otherwise noted above.

<u>Owner's Signature</u>	<u>Printed Name(s)</u>	<u>Address</u>
<i>Kristie Close Wakefield</i>	Kristie Close Wakefield	8784 NE Oddfellows Rd Bainbridge Island, WA 98110

State of Oregon) Washington
County of Benton) ss, Kitsap

On MAY 14th 2015 before me a notary public personally appeared the above-named Kristie Close Wakefield and acknowledged the foregoing instrument to be a voluntary act and deed.

Before me: [Signature]
Notary Public of Washington



<u>Owner's Signature</u>	<u>Printed Name(s)</u>	<u>Address</u>
<i>Brad Wakefield</i>	Brad Wakefield	8784 NE Oddfellows Rd BI WA 98

State of Oregon)
County of Benton) ss

On MAY 14th 2015 before me a notary public personally appeared the above-named Brad Wakefield and acknowledged the foregoing instrument to be a voluntary act and deed.

Before me: [Signature]
Notary Public of Oregon





www.co.benton.or.us

Inspection Summary Report

Residential Structural

Permit #: 138-20-000036-STR

BENTON COUNTY
Building Division
360 SW Avery Ave.
Corvallis, OR 97333
Phone: 541-766-6819
Fax: 541-766-6891

building@co.benton.or.us

IVR # 138027453593

Applicant: WAKEFIELD KRISTIE CLOSE
Owner: WAKEFIELD KRISTIE CLOSE, 7175 NW LATHROP LN, CORVALLIS, OR, 97330
Address: 7175 NW LATHROP LN
Corvallis OR 97330
Parcel: 11501BC02000

Inspection Type: 1999 Final Building
Inspection Date:
Inspector:
Inspection Result: Cancelled
Comments:

Inspection Type: 1999 Final Building
Inspection Date:
Inspector:
Inspection Result: Cancelled
Comments:

Inspection Type: 1999 Final Building
Inspection Date:
Inspector:
Inspection Result: Cancelled
Comments:

Inspection Type: 1999 Final Building
Inspection Date: 01/31/2020
Inspector: Daryl Long
Inspection Result: Approved
Comments:

Schedule Inspections online at: www.buildingpermits.oregon.gov
or by calling: 1-888-299-2821
Use IVR # 138027453593



Benton County
 Building Division
 360 SW Avery Ave.
 Corvallis, OR 97333
 541-766-6819
 Fax: 541-766-6891

Building Permit

Residential Structural

Permit Number: 138-20-000036-STR

IVR Number: 138027453593

Web Address: www.co.benton.or.us

Email Address: building@co.benton.or.us

Permit Issued: January 14, 2020

Project: WAKEFIELD

TYPE OF WORK

Category of Construction: Detached Accessory Struct

Type of Work: Alteration

Submitted Job Value: \$2,000.00

Description of Work: ENCLOSING EXISTING STORAGE BUILDING WITH NO CHANGE IN FOOTPRINT OR SIZE AND INSTALLING WOOD FLOOR SYSTEM.

JOB SITE INFORMATION

Worksite Address	Parcel	Owner:	WAKEFIELD KRISTIE
7175 NW LATHROP LN	11501BC02000		CLOSE
Corvallis, OR 97330		Address:	7175 NW LATHROP LN
			CORVALLIS, OR 97330

LICENSED PROFESSIONAL INFORMATION

Business Name	License	License Number	Phone
SEE PROPERTY OWNER INFORMATION - Primary	Owner (Property)	OWNER	

SCHEDULING INSPECTIONS

Various inspections are minimally required on each project and often dependent on the scope of work. Contact the issuing jurisdiction indicated on the permit to determine required inspections for this project.

Schedule or track inspections at www.buildingpermits.oregon.gov

Call or text the word "schedule" to 1-888-299-2821 use IVR number: 138027453593

Schedule using the Oregon ePermitting Inspection App, search "epermitting" in the app store

PERMIT FEES

Fee Description	Quantity	Fee Amount
Structural building permit fee		\$105.75
Structural plan review fee		\$105.75
State of Oregon Surcharge - Bldg (12% of applicable fees)		\$12.69
	Total Fees:	\$224.19

Permits expire if work is not started within 180 Days of issuance or if work is suspended for 180 Days or longer depending on the issuing agency's policy.

All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction.

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 at (503) 232-1987.

All persons or entities performing work under this permit are required to be licensed unless exempted by ORS 701.010 (Structural/Mechanical), ORS 479.540 (Electrical), and ORS 693.010-020 (Plumbing).



FP NO

Benton County
Building Division
360 SW Avery Ave.
Corvallis, OR 97333
541-766-6819
Fax: 541-766-6891

Building Permit
Residential Structural
Permit Number: 138-20-000036-STR
IVR Number: 138027453593

Web Address: www.co.benton.or.us

Email Address: building@co.benton.or.us

Permit Issued: January 14, 2020

Project: WAKEFIELD

TYPE OF WORK

Category of Construction: Detached Accessory Struct Type of Work: Alteration
Submitted Job Value: \$2,000.00

Description of Work: ENCLOSING EXISTING STORAGE BUILDING WITH NO CHANGE IN FOOTPRINT OR SIZE AND INSTALLING WOOD FLOOR SYSTEM.

JOB SITE INFORMATION

Worksite Address Parcel Owner: WAKEFIELD KRISTIE
7175 NW LATHROP LN 11501BC02000 CLOSE
Corvallis, OR 97330 Address: 7175 NW LATHROP LN
CORVALLIS, OR 97330

LICENSED PROFESSIONAL INFORMATION

Business Name	License	License Number	Phone
SEE PROPERTY OWNER INFORMATION - Primary	Owner (Property)	OWNER	

SCHEDULING INSPECTIONS

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Permits expire if work is not started within 180 Days of issuance or if work is suspended for 180 Days or longer depending on the issuing agency's policy.

All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction.

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 at (503) 232-1987.

All persons or entities performing work under this permit are required to be licensed unless exempted by ORS 701.010 (Structural/Mechanical), ORS 479.540 (Electrical), and ORS 693.010-020 (Plumbing).

138-20-00036-S1R

Structural Permit Application

Jurisdiction name: Benton County
 Address: 360 SW Avery Ave, Corvallis OR 97333
 Phone: 541-766-6819 Fax: 541-766-6891
 Inspection #: 541-766-6898 Web: www.co.benton.or.us



DEPARTMENT USE ONLY	
Permit no.:	
Date:	

This permit is issued under OAR 918-460-0030. Permits expire if work is not started within 180 days of issuance or if work is suspended for 180 days.

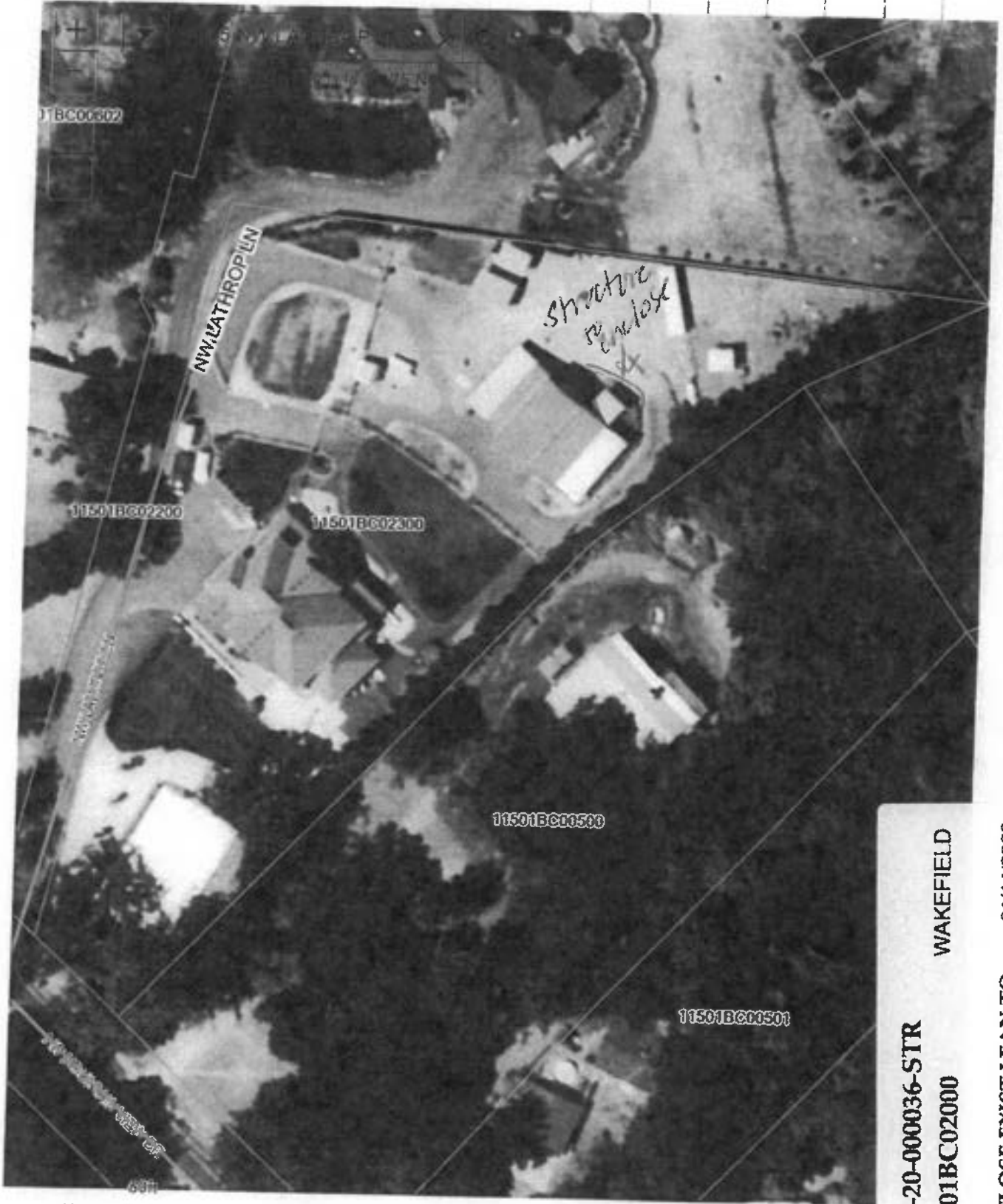
LOCAL GOVERNMENT APPROVAL	
This project has final land-use approval.	Date:
Signature:	
This project has DEQ approval.	Date:
Signature:	
Zoning approval verified: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Property is within flood plain: <input type="checkbox"/> Yes <input type="checkbox"/> No	
CATEGORY OF CONSTRUCTION	
<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Government
<input type="checkbox"/> Commercial	
JOB SITE INFORMATION AND LOCATION	
Job site address: <u>7175 NW Lathrop Ln</u>	
City: <u>Corvallis</u>	State: <u>OR</u> ZIP: <u>97330</u>
Subdivision:	Lot no.:
PROPERTY OWNER INSTALLATION	
Name: <u>Kristie Wakefield</u>	
Address: <u>7175 NW Lathrop Ln</u>	
City: <u>Corvallis</u>	State: <u>OR</u> ZIP: <u>97330</u>
Phone: <u>206 954-3828</u>	Fax: - -
E-mail: <u>KCWAKE1919@gmail.com</u>	
This installation is being made on residential or farm property owned by me or a member of my immediate family, and is exempt from licensing requirements under ORS 701.010.	
Sign here: <u>Kristie Wakefield</u>	
CONTRACTOR INSTALLATION	
Business name:	
Address:	
City:	State: ZIP:
Phone: - -	Fax: - -
E-mail:	
CCB license no.:	
Print name:	
Signature:	

FEE SCHEDULE	
1. Valuation Information	
(a) Job description: <u>enclose existing storage shed</u>	
Occupancy	
Construction type:	
Square feet:	
Cost per square foot:	
Other information:	
<input type="checkbox"/> new <input checked="" type="checkbox"/> alteration <input type="checkbox"/> addition	
(b) Foundation-only permit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(c) Plan review only? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Total valuation:	<u>\$2,000</u>
2. Building fees	
(a) Permit fee (use valuation table):	\$
(b) Investigative fee:	\$
(c) Re-inspection (\$40.00 per hour): (number of hours x fee per hour)	\$
(d) Enter 12% surcharge (.12 x [2a+2b+2c]):	\$
(e) Subtotal of fees above (2a through 2d):	\$
3. Plan review fees	
(a) Plan review (100% x permit fee [2a]):	\$
(b) Fire and life safety (40% x permit fee [2a]):	\$
(c) Subtotal of fees above (3a and 3b):	\$
4. Miscellaneous fees	
(a) Seismic fee, 1% (.01 x permit fee [2a]):	\$
TOTAL fees and surcharges (2e+3c+4a):	\$

CREDIT CARD INFORMATION	
<input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover	Phone: - -
Credit card number	Expiration
Name of cardholder as shown on credit card	\$
Cardholder signature	Amount

(Do not fill in credit card information unless you are faxing or mailing application.)

Benton County Zoning Map



-123.248 44.645 Degrees

138-20-000036-STR

11501BC02000

WAKEFIELD

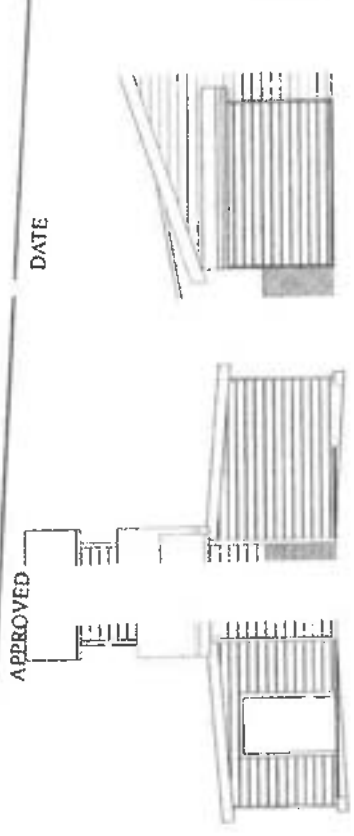
01/14/2020

ENCLOSE EXIST LEAN TO

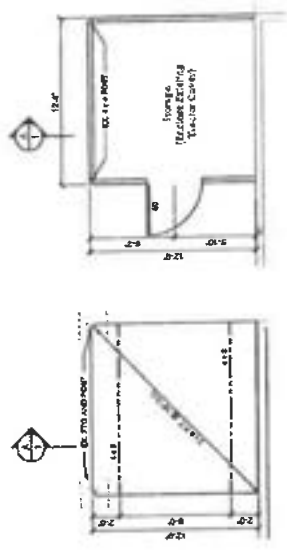
** separate permits for any plumbing, mechanical or electrical*

CALL BEFORE YOU DIG!
 ATTENTION: Oregon Law requires that all rules adopted by the Oregon Department of Geology and Mineral Industries are set forth in OAR 952-001-0000. For a copy of the rules, call the telephone number on the back of this permit.

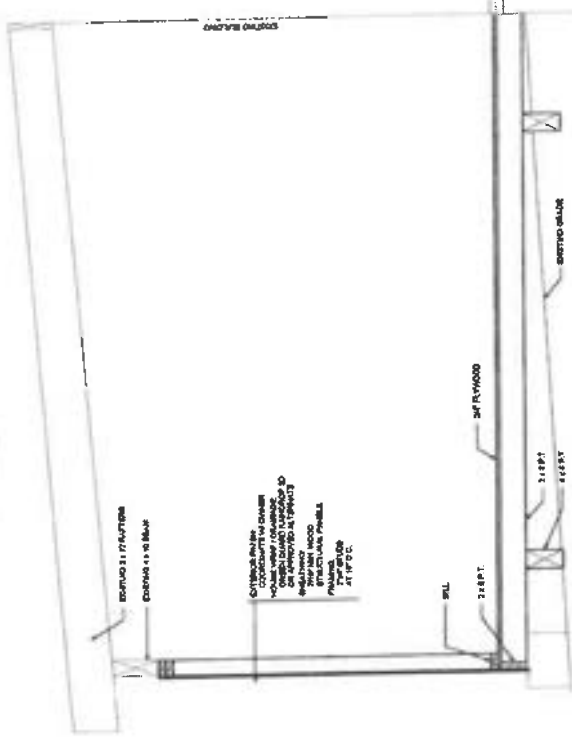
NEITHER THE GRANTING OF A PERMIT, NOR THE APPROVAL OF THE DRAWINGS AND SPECIFICATIONS, NOR INSPECTIONS MADE BY THE BUILDING INSPECTOR SHALL, IN ANY WAY RELIEVE THE OWNER OF SUCH BUILDING OR STRUCTURE FROM FULL RESPONSIBILITY FOR CARRYING OUT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF OREGON STRUCTURAL SPECIALTY CODE.



1 LEFT ELEVATION SCALE 1/4" = 1'-0"
 2 FRONT ELEVATION SCALE 1/4" = 1'-0"
 3 REAR ELEVATION SCALE 1/4" = 1'-0"



4 FLOOR FRAMING PLAN SCALE 1/4" = 1'-0"
 5 FIRST FLOOR PLAN SCALE 1/4" = 1'-0"



6 BUILDING SECTION SCALE 1/4" = 1'-0"

1987 of (800) 332-2344

Wakefield Storage

Elevations, Foundation & Floor Framing, Floor Plan and Section

PROJECT: SHEET

DATE: 1/16/09

DESIGNED BY: [Name]

DRAWN BY: [Name]

CHECKED BY: [Name]

SCALE: 1/4" = 1'-0"

1

FILE



www.co.benton.or.us

Inspection Summary Report

Residential Structural

Permit #: 138-20-000036-STR

BENTON COUNTY
Building Division
360 SW Avery Ave.
Corvallis, OR 97333
Phone: 541-766-6819
Fax: 541-766-6891

building@co.benton.or.us

IVR # 138027453593

Applicant: WAKEFIELD KRISTIE CLOSE
Owner: WAKEFIELD KRISTIE CLOSE, 7175 NW LATHROP LN, CORVALLIS, OR, 97330
Address: 7175 NW LATHROP LN
Corvallis OR 97330
Parcel: 11501BC02000

Inspection Type: 1999 Final Building
Inspection Date:
Inspector:
Inspection Result: Cancelled
Comments:

Inspection Type: 1999 Final Building
Inspection Date:
Inspector:
Inspection Result: Cancelled
Comments:

Inspection Type: 1999 Final Building
Inspection Date:
Inspector:
Inspection Result: Cancelled
Comments:

Inspection Type: 1999 Final Building
Inspection Date: 01/31/2020
Inspector: Daryl Long
Inspection Result: Approved
Comments:

Schedule Inspections online at: www.buildingpermits.oregon.gov
or by calling: 1-888-299-2821
Use IVR # 138027453593



FP NO

Benton County
Building Division
360 SW Avery Ave.
Corvallis, OR 97333
541-766-6819
Fax: 541-766-6891

Building Permit
Residential Structural

Permit Number: 138-20-000036-STR

IVR Number: 138027453593

Web Address: www.co.benton.or.us

Email Address: building@co.benton.or.us

Permit Issued: January 14, 2020

Project: WAKEFIELD

TYPE OF WORK

Category of Construction: Detached Accessory Struct Type of Work: Alteration
Submitted Job Value: \$2,000.00

Description of Work: ENCLOSING EXISTING STORAGE BUILDING WITH NO CHANGE IN FOOTPRINT OR SIZE AND INSTALLING WOOD FLOOR SYSTEM.

JOB SITE INFORMATION

Worksite Address 7175 NW LATHROP LN Corvallis, OR 97330	Parcel 11501BC02000	Owner: WAKEFIELD KRISTIE CLOSE	Address: 7175 NW LATHROP LN CORVALLIS, OR 97330
----------------------------------------------------------------------	-------------------------------	------------------------------------------	-----------------------------------------------------------

LICENSED PROFESSIONAL INFORMATION

Business Name SEE PROPERTY OWNER INFORMATION - Primary	License Owner (Property)	License Number OWNER	Phone
---------------------------------------------------------------------	------------------------------------	--------------------------------	--------------

SCHEDULING INSPECTIONS

Various inspections are minimally required on each project and often dependent on the scope of work. Contact the issuing jurisdiction indicated on the permit to determine required inspections for this project.

Schedule or track inspections at www.buildingpermits.oregon.gov

Call or text the word "schedule" to 1-888-299-2821 use IVR number: 138027453593

Schedule using the Oregon ePermitting Inspection App, search "epermitting" in the app store

PERMIT FEES

Fee Description	Quantity	Fee Amount
Structural building permit fee		
Structural plan review fee		\$105.75
State of Oregon Surcharge - Bldg (12% of applicable fees)		\$105.75
		\$12.69
Total Fees:		\$224.19

Permits expire if work is not started within 180 Days of issuance or if work is suspended for 180 Days or longer depending on the issuing agency's policy.

All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction.

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 at (503) 232-1987.

All persons or entities performing work under this permit are required to be licensed unless exempted by ORS 701.010 (Structural/Mechanical), ORS 479.540 (Electrical), and ORS 693.010-020 (Plumbing).

138-20-00036-S12

Structural Permit Application

Jurisdiction name: Benton County
 Address: 360 SW Avery Ave, Corvallis OR 97333
 Phone: 541-766-8818 Fax: 541-766-8891
 Inspection #: 541-766-6898 Web: www.co.benton.or.us



DEPARTMENT USE ONLY	
Permit no.:	
Date:	

This permit is issued under OAR 918-469-0030. Permits expire if work is not started within 180 days of issuance or if work is suspended for 180 days.

LOCAL GOVERNMENT APPROVAL	
This project has final land-use approval.	Date:
Signature: _____	
This project has DEQ approval.	Date:
Signature: _____	
Zoning approval verified: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Property is within flood plain: <input type="checkbox"/> Yes <input type="checkbox"/> No	

CATEGORY OF CONSTRUCTION		
<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Government	<input type="checkbox"/> Commercial
JOB SITE INFORMATION AND LOCATION		
Job site address: <u>7175 NW Lathrop Ln</u>		
City: <u>Corvallis</u>	State: <u>OR</u>	ZIP: <u>97330</u>
Subdivision:	Lot no.:	

PROPERTY OWNER INSTALLATION		
Name: <u>Kristie Wakefield</u>		
Address: <u>7175 NW Lathrop Ln</u>		
City: <u>Corvallis</u>	State: <u>OR</u>	ZIP: <u>97330</u>
Phone: <u>206 954-3828</u>	Fax: - -	
E-mail: <u>KCWAKE1919@gmail.com</u>		
This installation is being made on residential or farm property owned by me or a member of my immediate family, and is exempt from licensing requirements under ORS 701.010.		
Sign here: <u>Kristie Wakefield</u>		

CONTRACTOR INSTALLATION		
Business name:		
Address:		
City:	State:	ZIP:
Phone: - -	Fax: - -	
E-mail:		
CCB license no.:		
Print name:		
Signature:		

CREDIT CARD INFORMATION	
<input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover	Phone: - -
Credit card number	Expiration
Name of cardholder as shown on credit card	
Cardholder signature	Amount

(Do not fill in credit card information unless you are faxing or mailing application.)

FEE SCHEDULE	
1. Valuation information	
(a) Job description: <u>enclose existing storage shed</u>	
Occupancy	
Construction type:	
Square feet:	
Cost per square foot:	
Other information:	
<input type="checkbox"/> new <input checked="" type="checkbox"/> alteration <input type="checkbox"/> addition	
(b) Foundation-only permit?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(c) Plan review only?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total valuation:	<u>\$2,000</u>
2. Building fees	
(a) Permit fee (use valuation table):	\$
(b) Investigative fee:	\$
(c) Re-inspection (\$40.00 per hour): (number of hours x fee per hour)	\$
(d) Enter 12% surcharge (.12 x [2a+2b+2c]):	\$
(e) Subtotal of fees above (2a through 2d):	\$
3. Plan review fees	
(a) Plan review (100% x permit fee [2a]):	\$
(b) Fire and life safety (40% x permit fee [2a]):	\$
(c) Subtotal of fees above (3a and 3b):	\$
4. Miscellaneous fees	
(a) Seismic fee, 1% (.01 x permit fee [2a]):	\$
TOTAL fees and surcharges (2e+3c+4a):	\$

Benton County Zoning Map



-123.248 44.645 Degrees

138-20-000036-STR

11501BC02000

WAKEFIELD

01/14/2020

ENCLOSE EXIST LEAN TO

Sports
Court



Building Permit

Residential Structural

138-16-000146-STR

BENTON COUNTY
Building Division
360 SW Avery Ave.
Corvallis, OR 97333
541-766-6819
Fax: 541-766-6891

www.co.benton.or.us

building@co.benton.or.us

Permit Issued: June 03, 2016

Job Name:

TYPE OF WORK

Type of Work: New

Category of Construction: Detached Accessory Stru

Submitted Value: \$8,500.00

Description of Work: SPORTS COURT FENCE

JOB SITE INFORMATION

Property Address:

7175 NW Lathrop Ln, Corvallis,
OR 97330

Parcel:

Owner:

WAKEFIELD BRADLEY

Address:

THOMAS & KRISTIE CLOSE
7175 NW LATHROP LN
CORVALLIS OR 97330

LICENSED PROFESSIONAL INFORMATION

Work performance not designated

Property Owner Affidavit Has Not Been Filed

INSPECTIONS - Additional inspections may be required through the life of the project.

The list of inspections below represents the minimum inspections recommended for this project at the time of permit printing.

1999 Final Building

Schedule Inspections online at www.buildingpermits.oregon.gov or by calling: 1-888-299-2821

When calling for an inspection, use IVR Number: 138026992864

OR search "ePermitting" at the Apple App Store to download the Oregon ePermitting Inspection App for iOS.

PERMIT FEES - Permit fees may change after staff review

Fee Description	Quantity	Amount
Zoning Compliance Review	1 Ea	\$75.00
EH Review of Building Permit	1 Ea	\$70.00
PW Review of Building Permit	1 Ea	\$49.00
Structural plan review fee		\$159.65
Structural building permit fee		\$159.65
State of Oregon Surcharge - Bidg (12% of applicable fees)		\$19.16
Total Fees:		\$532.46

Permits expire if work is not started within 180 Days of issuance or if work is suspended for 180 Days or longer depending on the issuing agencies policy.

All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. Granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction.

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 (503) 232-1987).

All persons or entities performing work under this permit are required to be licensed unless exempted by ORS 701.010.

Permit Issued: June 03, 2016

Job Name:

Building Permit: 138-16-000146-STR, Page 2 of 2

Address: 7175 Nw Lathrop Ln, Corvallis, OR 97330

PLAN REVIEW COMMENTS / CONDITIONS

Reviewer: Alex Pichacz

Date: April 29, 2016

Planning Review: Planning has reviewed Permit No. 138-16-000146-STR (10 foot fence) and determined that the proposed project complies with zoning regulations, if certain conditions are met. Required conditions are identified on the approved plot plan(s), which will be included with your issued permit.



A&B SEPTIC SERVICE
Operations and Maintenance Dept

Kristie Wakefield
7175 NW Lathrop Ln.
Corvallis, OR 97330

May 4, 2023

Re: Extended Contract

The current O&M Service Contract on your Advantex Waste Water Treatment System expires on **June 4, 2023**. To keep in compliance with DEQ and County rules you need to have a continuous O&M Service Contract on your System at all times. I am sending you an Extended O&M Service Contract for your review. The service is billed annually on or about your anniversary date; **the first year is payable with the return of the signed contract.** Also review Schedule "A" to see the maintenance the contract covers.

The following is due within 10 days of signing this contract;

Annual payment of \$ 390.00 per year _____
Signature Date

With this letter you will find:

1. This payment agreement page requiring your signature
2. An Extended Service Contract requiring your signature
3. Schedule "A" listing the services covered by this contract
4. The above documents must be returned within 30 days of the date of this letter.

If you have any questions, please do not hesitate to call me at 844-571-2836 any time, we are here to help you whenever you need it.

Thank you for allowing A&B Septic Service to serve you, we appreciate your business.

Thank You,

Angela Dyer
ATT Administrative Assistant
A & B Septic Service

Feb will contact us re: next year



A&B SEPTIC SERVICE

Operations and Maintenance Dept

RE: EXTENDED CONTRACT UPDATE

NEW CONTRACT STRUCTURE

I'm sending you an extended contract. As you review this contract, you may notice that you no longer select a timeframe, and there is no end date listed. We are implementing open-ended contracts with no expiration date. This will help to reduce waste and save both our customers and ourselves time as renewals will not be necessary.

BILLING

The way you are billed for your annual maintenance fee will not change. You will continue to receive invoices annually on the 1st of the month of your original renewal date (as you have previously).

PRICE INCREASE PROCESS

While we don't anticipate a price increase in our annual maintenance fees any time soon, from time to time, we do have to make pricing adjustments based on cost-of-living increases. Should a price increase occur, we will notify you at least 30 days prior to your annual invoice.

CANCELLATION

The contract can be terminated by either party at any time following the guidelines listed within the contract.

If you have any questions, please do not hesitate to call me at 844-571-2836 any time, we are here to help you whenever you need it. Thank you for allowing A&B Septic Service to serve you, we appreciate your business.

Thank You,

Angela Dyer

ATT Administrative Assistant



Delta Environmental Products™

Pentair Water

Extended DF Series Service Contract

For the State of Oregon

Parties: (Authorized Delta Service Provider)

Name : A&B SEPTIC SERVICE
Address: PO BOX 444
City, State, Zip Code: ALBANY, OR 97321
Telephone: 844-571-2836
Fax: 541-917-1861
Email: att.oandm@gmail.com

And: (Customer)

Name : KRISTIE WAKEFIELD
Address: 7175 NW LATHROP LN.
City, State, Zip Code: CORVALLIS, OR 97330
Telephone: 541-368-5970
Email: KCWAKE1919@GMAIL.COM

System Location

Address: 7175 NW LATHROP LN.
City, State, Zip Code: CORVALLIS, OR 97330
Legal Description :
GPS Coordinates :

Installed by:

Serial #:

Agency Contact Information

Agency : BENTON COUNTY
Address: PO BOX 579
City, State, Zip Code: CORVALLIS, OR 97339
Telephone: 541-766-6841
Email: N/A

Date: 05/04/2023

NOW, THEREFORE, in consideration of the terms, provisions, covenants, and conditions herein, the Parties hereto agree as follows:

1.0 Performance of Basic Services

1.1 Initial Service Policy

The Authorized Delta Service Provider shall perform the System Inspection/Service Visits throughout the duration of the contract.:

Inspection/Service Visits EVERY 6 MONTHS. As required by NSF, these services will be included as part of the initial purchase of the system.

These services shall be performed during normal business hours Monday through Friday (excluding national holidays) on a pre-scheduled basis and as the Authorized Delta Service Provider deems necessary or advisable.

At each service visit the System shall be inspected and serviced in accordance with the instructions in the Systems O & M Manual. Additionally, as effluent quality inspection consisting of a visual assessment of color, turbidity, and scum overflow and an olfactory assessment for odor shall be performed.

The Service Provider will affix a "For Service, Call **A & B SEPTIC SERVICE 844-571-2836**" label near the control panel's alarm signal and fill in his or her phone number.

Performance of the Inspection/Service visits shall include notification of needed repair, replacement or addition of parts used in the system.

The Authorized Service Provider shall be responsible for submitting the Annual Report and Annual Evaluation Fee to the appropriate Regulatory Agency as required. **The Annual Fee set by Regulatory Agency shall be paid by the homeowner to A & B SEPTIC SERVICE within 10 days of receiving the invoice for said fee.** Should this Annual Fee not be paid in full to A & B Septic within the aforementioned period of time, the Annual Report will not be sent to the Regulatory Agency placing the homeowner out of compliance with the Regulatory Agency.

The Service Provider shall notify the owner in writing if any improper system operation cannot be remedied at the time of servicing. The written notification shall include an estimated date of correction.

1.2 Extended Service Policy

The Delta Authorized Service Provider shall make available for purchase by owner an extended service policy with terms comparable to those in the initial service policy.

1.3 Stand By Parts

In the event that a mechanical or electrical component must undergo off site repairs the local authorized representative should maintain a stock of mechanical and electrical components that may be temporarily installed until repairs are completed.

1.4 Availability of Service

The service provider shall provide emergency service within 48 hours of service request.

2.0 Term of Agreement

This Agreement shall be in effect until otherwise terminated by either party in writing as provided herein.

3.0 Definitions

For purposes of this agreement, the following definitions shall apply:

3.1 System shall mean a Delta ANS/NSF 40-certified wastewater treatment system.

3.2 "System Start-Up Date" shall mean the date the System begins operating for its intended purpose.

4.0 Charges

The basic services including service, inspection, effluent quality evaluation, and service, may be included with the purchase of the System. Optional, additional services shall be provided at the agreed-upon contract price and terms. Service Provider may increase all or any of the charges for those Services described in Schedule A by giving the Customer written notice at least thirty (30) days before each yearly anniversary of the Effective Date of this Agreement. **The annual report and annual evaluation fee required by DEQ is not optional and are not included in the cost of basic services.** Refer to the Service Provider's fee schedule for an outline of the cost of basic services and optional services to be provided under this contract.

5.0 Warranty

The Delta Service provider warrants that all services shall be performed in a good and workmanlike manner and that the service provider will correct any system errors, malfunctions, or defects directly caused by the service provider's failure to perform the services and additional services in such manner.

6.0 Limitation of Liability

The sole liability of the Service Provider under this agreement shall be to correct any errors, malfunctions, or defects in the system directly caused by the Delta Service Providers' failure to perform any services in a good and workmanlike manner pursuant to section 4 above. In no event should the Service provider's liability to the customer hereunder exceed the total of the amounts paid to the service provider hereunder by the customer. In no event shall the Delta Service Provider be liable to the customer or any other third-party claimant for any indirect, special, punitive, consequential, or incidental damages or lost profits arising out of or related to this agreement or the performance or breach thereof, whether based upon a claim or action of contract, warranty, negligence, or strict liability or another tort. Breach of any statutory duty, indemnity, or contribution or otherwise, even if the service provider has been advised of the possibility of such damage.

7.0 Termination/Cancellation

This agreement may be terminated or canceled only upon:

- Written notice by one Party effective as of the effective date thereof if the other Party is in default of any provision of this Agreement and such default is not cured by the defaulting Party within fifteen (15) days after the effective date of said notice from the non-defaulting party, or by the mutual agreement of both Parties.
- Copy of such written notice shall be forwarded to the regulatory agency.

8.0 Miscellaneous Provisions

This agreement is personal in nature and may not be delegated, assigned, or transferred by either Party without the prior written consent of the other Party.

The laws of the State of Oregon shall govern the Agreement.

The homeowner shall be responsible for complying with the Delta DF Series Installation, Operation & Maintenance Manual provided to them with the purchase of the system.

Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be mailed by certified mail, return receipt requested, postage prepaid, addressed to the Parties at the addresses shown on the first page of the Agreement. Any notice or other communication shall be deemed given at the expiration of the second day after the date of deposit in the United States mail. The addresses to which notices or other communications shall be mailed may be changed from time to time by giving written notice to the other Party as provided in this Section.

The value of this maintenance contract is \$390. per year and is payable within 10 days of invoice. The contract begins June 5, 2023, and will remain in effect until otherwise terminated in writing by either party. Inspection and maintenance of the pump basin and pump apparatus following the Whitewater Treatment System included in this contract. We will observe and record the conditions of the drain field as per State requirements.

Delta Service Provider

Customer(s)

Name: A & B SEPTIC SERVICE

SIGNATURE

Signature: *Angela Dyer*

DATE

Title: Oregon Certified Service Provider

**EXTENDED SERVICE CONTRACT WHITEWATER
AEROBIC TREATMENT UNIT
SCHEDULE A**

1. HOMEOWNERS RESPONSIBILITY

- a. Daily
 - i. Observe the warning device
 - ii. Check for unusual noise
 - iii. Check for total failure
- b. Weekly
 - i. Check treatment plant for offensive odor.
- c. Quarterly
 - i. Clean the air filter on air pump.

A & B SEPTIC SERVICE RESPONSIBILITY

- 2. System Maintenance and Servicing performed **SEMI-ANNUALLY**
 - a. Aerobic Treatment Unit
 - i. Record motor amps
 - ii. Activate all floats
 - iii. Perform 30-minute settle ability test
 - iv. Measure sludge and scum
 - v. Check tank for pumping
 - vi. Inspect for ponding
 - vii. Check splice box
 - viii. Check/record clarity (turbidity)
 - ix. Check/record D.O. test.
 - x. Check for odor (sniff)
 - xi. Check for oily film (visual inside tank)
 - xii. Check for foam (visual inside tank)
 - xiii. Check/record pH
 - b. Maintain disposal field pump Basin/Inspect disposal field
 - i. Check pump intake screen
 - ii. Check floats for proper operation
 - iii. Record Amps and Volts on pump(s)
 - iv. Visually inspect disposal field surface for ponding
 - v. Check liquid level in disposal field's monitoring ports if installed
 - c. Reporting
 - i. Report to homeowner any improper system function and date of correction
 - ii. Submit Annual report to Regulatory Agency
 - iii. **Homeowner will be invoiced for Regulatory Agency Fee in separately from the annual maintenance contract invoice**

**EXTENDED SERVICE CONTRACT WHITEWATER
AEROBIC TREATMENT UNIT**

d. Alarm Response

1. Alarm response will be handled by a certified Service Technician that is dedicated to O&M for our customers.
We are available 24 hours a day –7 days a week for emergencies.

- ❖ Total Fee to be paid to A&B Septic Service by the customer within 30 days of invoice.
- ❖ Contract is void, if not signed within 30 days from date of letter.
- ❖ Emergency call outs; Lab Testing; or Parts not covered by warranty will be billed at Travel Time, Labor and Materials.
- ❖ **GENERAL TERMS AND CONDITIONS FOR A&B SEPTIC SERVICE.** Customer agrees to pay all sums due and owing to **A&B Septic Service** in a timely manner. Interest shall accrue on all past due sums at the rate of 18% per annum. Customer also agrees to pay **A&B Septic Service** for all costs relating to actions to collect past due sums, including reasonable attorney fees in any forum regardless of whether a lawsuit is filed. Customer also agrees to release, hold harmless, and indemnify **A&B Septic Service** from any and all damages to persons and real and personal property arising out of or resulting from services rendered by **A&B Septic Service**.
- ❖ When filing the Annual report to Regulatory Authority we must notify them if a new extended service contract is not in place.
- ❖ Thank you for choosing A&B Septic Service we appreciate your business.

TOTAL PRICE \$390.00 PER YR

Please update your contact information and return the completed form

Name: _____

Site Address: _____

Mailing address if different from site address:

Home Phone: _____

Cell Phone: _____

Business Phone: _____

Which phone number is the best number to reach you on? (Please check)

Home Phone: _____ **Cell Phone:** _____ **Business Phone:** _____

Email Address: _____

Thank you,
Angela Dyer
ATT Administrator
A & B Septic Service
844-571-2836
att.oandm@gmail.com

After recording return to:
Neal Peterson
1667 Wooded Knolls Drive
Philomath, Oregon 97370

Grantors:
Mark and Kristin Knutson
1669 Wooded Knolls Drive
Philomath, OR 97370

Neal L. Peterson, Trustee
and Johanna C. Peterson, Trustee
1667 Wooded Knolls Drive
Philomath, Oregon 97370

BENTON COUNTY, OREGON	2013-506078
DE-EAS	04/29/2013 01:51:20 PM
Str=1 PF	
\$10.00 \$11.00 \$10.00 \$17.00 \$20.00	\$68.00
I, James V. Morales, County Clerk for Benton County, Oregon, certify that the instrument identified herein was recorded in the Clerk records.	
James V. Morales - County Clerk	

Maintenance Agreement for Vehicle Access

This document is recorded as an accommodation only. No liability is accepted for the condition of title or for the validity, sufficiency or effect of this document.

Mark and Kristin Knutson, as tenants by the entirety, as to an undivided 1/2 interest, and Neal L. and Johanna C. Peterson, Trustees or their successor in trust of the Neal L. Peterson Living Trust, dated October 11, 1993, as amended and restated on November 30, 2011, as to a one-quarter interest; and Johanna C. Peterson and Neal L. Peterson, Trustees or their successor in trust of the Johanna C. Peterson Living Trust dated October 11, 1993, as amended and restated on November 30, 2011, as to a one-quarter interest, all together as tenants in common hereinafter referred to as grantors to Parcels 1, 2 and 3 of Benton County Partition Plat No. 2013-012, do hereby grant, assign including heirs, successors the following maintenance agreement for vehicle access to the grantees Mark and Kristin Knutson and Trustees Neal L. Peterson and Johanna C. Peterson.

The cost for maintaining the common driveway from Northwest Mountain View Drive shall be shared equally between Parcels 1, 2, and 3 when access is provide to all three parcels. The cost for maintaining the driveway shall be shared equally between Parcels 2 and 3 when access only serves these two parcels. The cost for maintaining the driveway for serving only Parcel 3 is the responsibility of the owner of Parcel 3.

The owner of Parcel 2 agrees that no physical barrier is to be constructed along the West property line of Parcel 1. The owner of Parcel 2 further agrees that the property between the improved driveway and the West property line of Parcel 1 shall be maintained by the owner of Parcel 1.

This is a maintenance agreement for vehicle access, thus there is no consideration.

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

AMERICAN TITLE 505528


In Witness Whereof, the grantors have executed this instrument _____ 2013.



Mark Knutson



Kristin Knutson



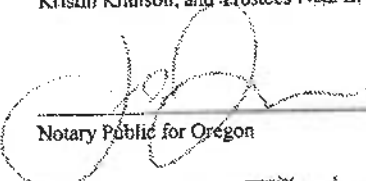
Neal L. Peterson, Trustee



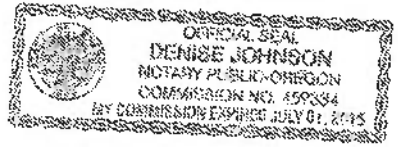
Johanna C. Peterson, Trustee

STATE OF OREGON)
County of Benton) ss

This Maintenance Agreement for Vehicle Access is acknowledged before me 4/9, 2013, by Mark Knutson and Kristin Knutson, and Trustees Neal L. Peterson and Johanna C. Peterson.



Notary Public for Oregon
My commission expires: July 01, 2015



BENTON COUNTY, OREGON 2013-506079
DE-EAS
Stn=1 PF 04/29/2013 01:51:20 PM
\$10.00 \$11.00 \$10.00 \$17.00 \$20.00 \$68.00

I, James V. Morales, County Clerk for Benton County, Oregon, certify that the instrument identified herein was recorded in the Clerk records.
James V. Morales - County Clerk

After recording return to:
Neal Peterson
1667 Wooded Knolls Drive
Philomath, Oregon 97370

Grantors:
Mark and Kristin Knutson
1669 Wooded Knolls Drive
Philomath, OR 97370

Neal L. Peterson, Trustee
and Johanna C. Peterson, Trustee
1667 Wooded Knolls Drive
Philomath, Oregon 97370

MAINTENANCE AGREEMENT FOR WATER LINE AND WELL

This document is recorded as an accommodation only. No liability is accepted for the condition of title or for the validity, sufficiency or effect of this document.

AMENITY: 505528

Mark and Kristin Knutson, as tenants by the entirety, as to an undivided 1/2 interest, and Neal L. and Johanna C. Peterson, Trustees or their successor in trust of the Neal L. Peterson Living Trust, dated October 11, 1993, as amended and restated on November 30, 2011, as to a one-quarter interest; and Johanna C. Peterson and Neal L. Peterson, Trustees or their successor in trust of the Johanna C. Peterson Living Trust dated October 11, 1993, as amended and restated on November 30, 2011, as to a one-quarter interest, all together as tenants in common of Parcel 2 and 3 of Benton County Partition Plat No. 2013-012, hereinafter known as owners, do hereby grant, assign including heirs, successors the following maintenance agreement for a water line and well to the grantees Mark and Kristin Knutson and trustees Neal L. Peterson and Johanna C. Peterson.

THIS AGREEMENT between the owners of Parcel 2 and Parcel 3 is for the purpose of providing water from a well located on Parcel 2 to Parcel 3 as shown as Course A on Benton County Partition Plat 2013-012, Partition Plat Records of Benton County, Oregon.

The owner of parcel 3 shall have the right, privilege and authority to construct, maintain, replace, reconstruct, and/or remove a water line with all the appurtenances incident thereto or necessary therewith, on, under and across said easement, and to cut and remove from the easement as shown on the partition plat any trees and other obstructions which may endanger the safety or interfere with the construction, use, or maintenance of said water line and the right of ingress and egress to, over and from the above-described premises at any and all times for the purpose of doing anything necessary, or useful, or convenient for the enjoyment of the water line easement granted on the partition plat.

The owner of parcel 3 shall, upon each and every occasion that such water line is reconstructed, maintain, replaced or removed, restore the conditions in the easement over Parcel 2 to a condition as near as practicable as existed prior to any such installation or work.

The owners of parcel 2 and parcel 3 agree to share equally the cost of maintaining the well, well pump and pump controller(s). The owners also agree the power usage to run the pump will be paid proportionately to the amount of water consumed by metering each parcel.

This is an establishment of maintenance agreement, thus there is no consideration.

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO

VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

In Witness Whereof, the owners have executed this instrument April 10, 2013.

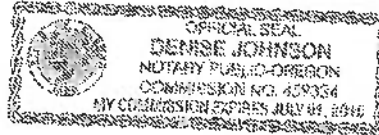
[Signature]
Mark Knutson

[Signature]
Kristin Knutson

STATE OF OREGON)
County of Benton) ss.

This Maintenance Agreement is acknowledged before me April 10, 2013, by Mark Knutson and Kristin Knutson.

[Signature]
Notary Public for Oregon
My commission expires July 1, 2015



In Witness Whereof, the owners have executed this instrument 4/8, 2013.

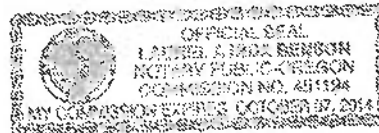
[Signature] /TTE
Neal L. Peterson, Trustee

[Signature] Trustee
Johanna C. Peterson, Trustee

STATE OF OREGON)
County of Deschutes) ss.

This Maintenance Agreement is acknowledged before me April 8, 2013, by Trustees Neal L. Peterson and Johanna C. Peterson.

[Signature]
Notary Public for Oregon
My commission expires: 10/1/14



Radon Measurement Report



COMPANY INFORMATION

Name: Greater Purpose Home Inspections, LLC
Phone Number: (541) 231-4598
Email: info@GPhomeinspections.com
Address: 2755 Commercial Street SE (101-278), Salem, OR 97302, United States

CERTIFICATIONS

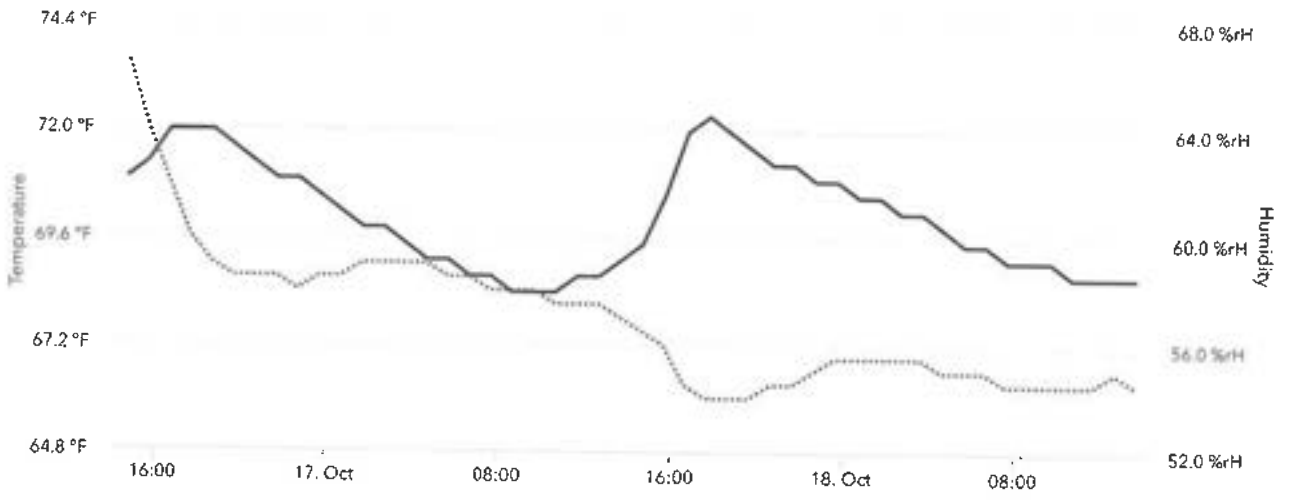
Name:	Number:	Expiration Date:
CCB	205033	12/31/2024

PROPERTY INFORMATION

Property Name: Lathrop
Address: 7175 NW Lathrop Ln, Corvallis, OR 97330, United States
Building Year: 2016
Ventilation Type: Standard Makeup Air
Building Type: House
Foundation Type: Stem Wall Construction
Radon Mitigation System: None

TEMPERATURE & HUMIDITY GRAPHS

— Temperature
... Humidity



33	2023-10-17, 10:32 p.m. PDT	0.0 pCi/L	29.7603 inHg	70.9 °F	55.0 %rH
34	2023-10-17, 11:32 p.m. PDT	2.1 pCi/L	29.7651 inHg	70.9 °F	55.5 %rH
35	2023-10-18, 12:32 a.m. PDT	0.9 pCi/L	29.7704 inHg	70.5 °F	55.5 %rH
36	2023-10-18, 1:32 a.m. PDT	0.9 pCi/L	29.7680 inHg	70.5 °F	55.5 %rH
37	2023-10-18, 2:32 a.m. PDT	0.9 pCi/L	29.7698 inHg	70.2 °F	55.5 %rH
38	2023-10-18, 3:32 a.m. PDT	1.2 pCi/L	29.7674 inHg	70.2 °F	55.5 %rH
39	2023-10-18, 4:32 a.m. PDT	0.6 pCi/L	29.7592 inHg	69.8 °F	55.0 %rH
40	2023-10-18, 5:32 a.m. PDT	1.8 pCi/L	29.7503 inHg	69.4 °F	55.0 %rH
41	2023-10-18, 6:32 a.m. PDT	1.5 pCi/L	29.7468 inHg	69.4 °F	55.0 %rH
42	2023-10-18, 7:32 a.m. PDT	2.1 pCi/L	29.7456 inHg	69.1 °F	54.5 %rH
43	2023-10-18, 8:32 a.m. PDT	0.9 pCi/L	29.7473 inHg	69.1 °F	54.5 %rH
44	2023-10-18, 9:32 a.m. PDT	0.6 pCi/L	29.7550 inHg	69.1 °F	54.5 %rH
45	2023-10-18, 10:32 a.m. PDT	0.9 pCi/L	29.7550 inHg	68.7 °F	54.5 %rH
46	2023-10-18, 11:32 a.m. PDT	0.9 pCi/L	29.7550 inHg	68.7 °F	54.5 %rH
47	2023-10-18, 12:32 p.m. PDT	0.9 pCi/L	29.7473 inHg	68.7 °F	55.0 %rH
48	2023-10-18, 1:32 p.m. PDT	1.5 pCi/L	29.7349 inHg	68.7 °F	54.5 %rH

TEST INFORMATION



Average Radon Level:	0.9 pCi/L
Dataset Name:	Lathrop
Measurement Type:	Initial
Start Date:	Oct 16, 2023, 1:32 p.m. PDT
End Date:	Oct 18, 2023, 1:32 p.m. PDT
Measurement Duration:	48h
Floor/Level:	1
Room:	Bedroom
Comment:	No comments documented.

TEMPORARY CONDITIONS & DEVIATIONS FROM PROTOCOL



Temporary Conditions:	None documented.
Deviations from Protocol:	None documented.

Recommended Actions

STATEMENT OF LIMITATIONS

There is an uncertainty with any radon measurement result due to statistical variations in radiation, and other factors such as conditions which change daily and seasonally which can cause variations in indoor radon levels. These conditions can change based on the weather, the use or disuse of appliances, systems, and components of the structure, tampering with the radon test, or failure to comply with the closed-building conditions necessary for a valid radon measurement result.

ADDITIONAL RADON INFORMATION

For further information regarding your radon measurement report, radon exposure risk, a radon professional, or to obtain a list of certified radon measurement and mitigation professionals in your area, contact your jurisdiction's Department of Health.

RADON PROFESSIONAL'S SIGNATURE

This report is certified by Greater Purpose Home Inspections, LLC.

*Greater Purpose Home
Inspections, LLC*

2023-10-18
Corvallis

Electronic Signature