City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 • 503-823-7300 • www.portlandoregon.gov/bds

SCAN

Deferred Submittal Requirements and Application

Applicants will provide:

- ☐ A copy of this application
- ☐ Three (3) sets of plans
- ☐ One (1) set of calculations
- ☐ Two (2) sets of product information
- ☐ Drawings and calculations must be stamped and signed by an Engineer registered in Oregon and approved by the Architect/Engineer of record for the building.
- ☐ Permit fee (paid at time of submittal)
- ☐ If the DFS includes exterior elements, plan views and elevations identifying the location(s) as approved by the Architect and Engineer of Record must be submitted.
- ☐ One (1) copy of your main building permit approved plans (NOTE: Approved plans do not need to be submitted if your project has a development liaison assigned)

Contractor submittal information:

Contact name STAN LINK

Address PO Box 42211

City Ptld State OR Zip Code 97242

Phone 503.320.6144 E-mail STAN.LINK@COMCAST.NET

Value of deferred submittal $6500 Issued main building permit # 12-183345

Description/Scope of work Roof truss system

Fees

Deferred submittal (DFS) fees are collected in addition to the standard building review fee paid on the main building permit. DFS fees cover the cost of the additional processing and review time associated with the design build element.

The DFS fee for processing and reviewing deferred plan submittals is 10 percent of the building permit fee calculated using the value of the particular deferred portion of the project.,

Minimum fee: Residential, one and two family dwelling ...$123 for DFS with valuation of less than or equal to $222,000

Commercial and all other projects .....$307 for DFS with valuation of less than or equal to $680,000

The Bureau of Development Services (BDS) fee schedule is also available on the BDS web site at ***www.portlandoregon.gov/bds*** | select the Fees tab.

Helpful Information

Bureau of Development Services
1900 SW 4th Avenue, Portland, OR 97201

Submit your plans to:
Development Services Center (DSC), First Floor,
Tuesday - Friday:
8:00 am - 12:00 pm
Closed Mondays

Important Telephone Numbers

BDS main number	503-823-7300
DSC automated information line	503-823-7310
Building code information	503-823-1456
BDS 24 hour inspection request line	503-823-7000
Residential information for one and two family dwellings	503-823-7388
City of Portland TTY	503-823-6868

Sherman Engineering, Inc.
3151 NE Sandy Blvd. #100, Portland, OR 97232
(503) 230-8876 Ph
(503) 226-4745 Fax

2

MEMORANDUM

TO: Mr. John Cole
Lundin Cole Architects
Portland, OR
(503) 241-3174

DATE: February 26, 2013

FROM: James Meese
Associate

REGISTERED PROFESSIONAL ENGINEER
18618
OREGON
JULY 10, 1996
DON P. SHERMAN
EXPIRES: 6/30/14

RE: 1321 SE Miller St. **#12-183345-000-00-RS**
Portland, Oregon

NOTE:

This memo is to inform you of our recommendation for changes to our original engineering design.

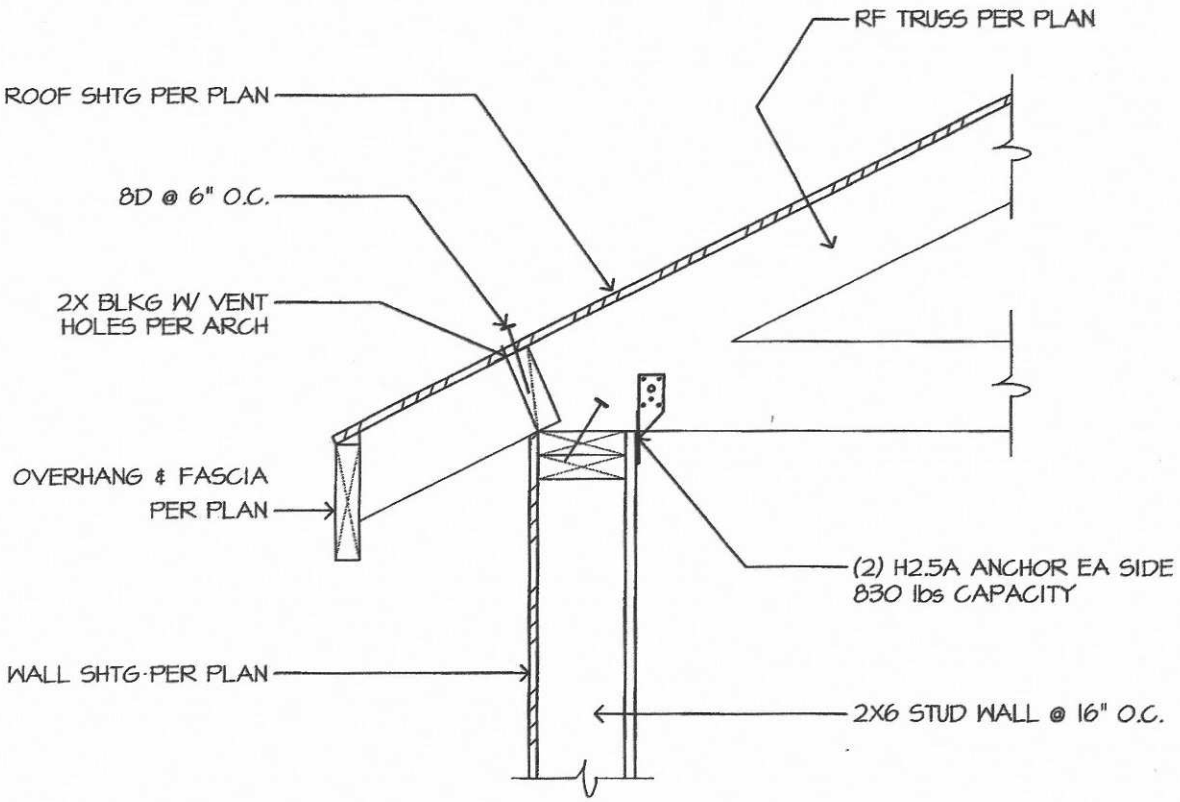
We have reviewed the foundation and calculations on this project and conclude that special inspections are not required for the concrete work, based on the building type and the strength of concrete required to meet our design.

Additionally we have reviewed the roof package by the truss manufacturer. We find the truss package to be acceptable for this project as is, but we are including a detail to handle uplift forces on the girder trusses. It's a detail to tie-down truss girders to exterior walls.

If you have any questions please give me a call.

CC: File-Burrell 022613.doc

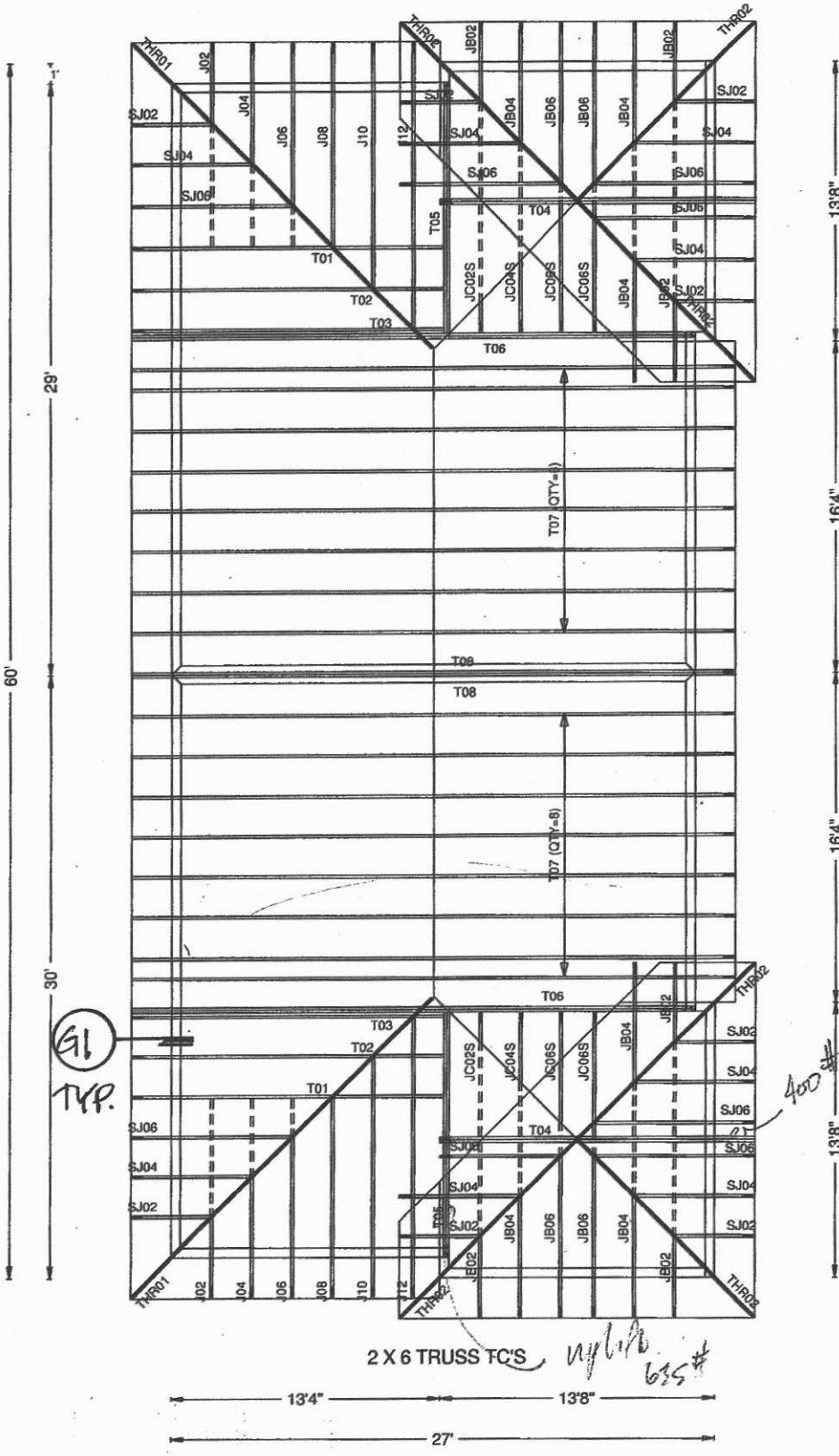
12-183345 DFS 01 of 03



G1 ROOF TRUSS @ EXT WALL

RFT5 (2) H2.5A

SCALE: 1" = 1'-0"



STAN LINK
42# COMP ROOF
4/12 PITCH 2-0 OH
1-6 TOTAL HEEL

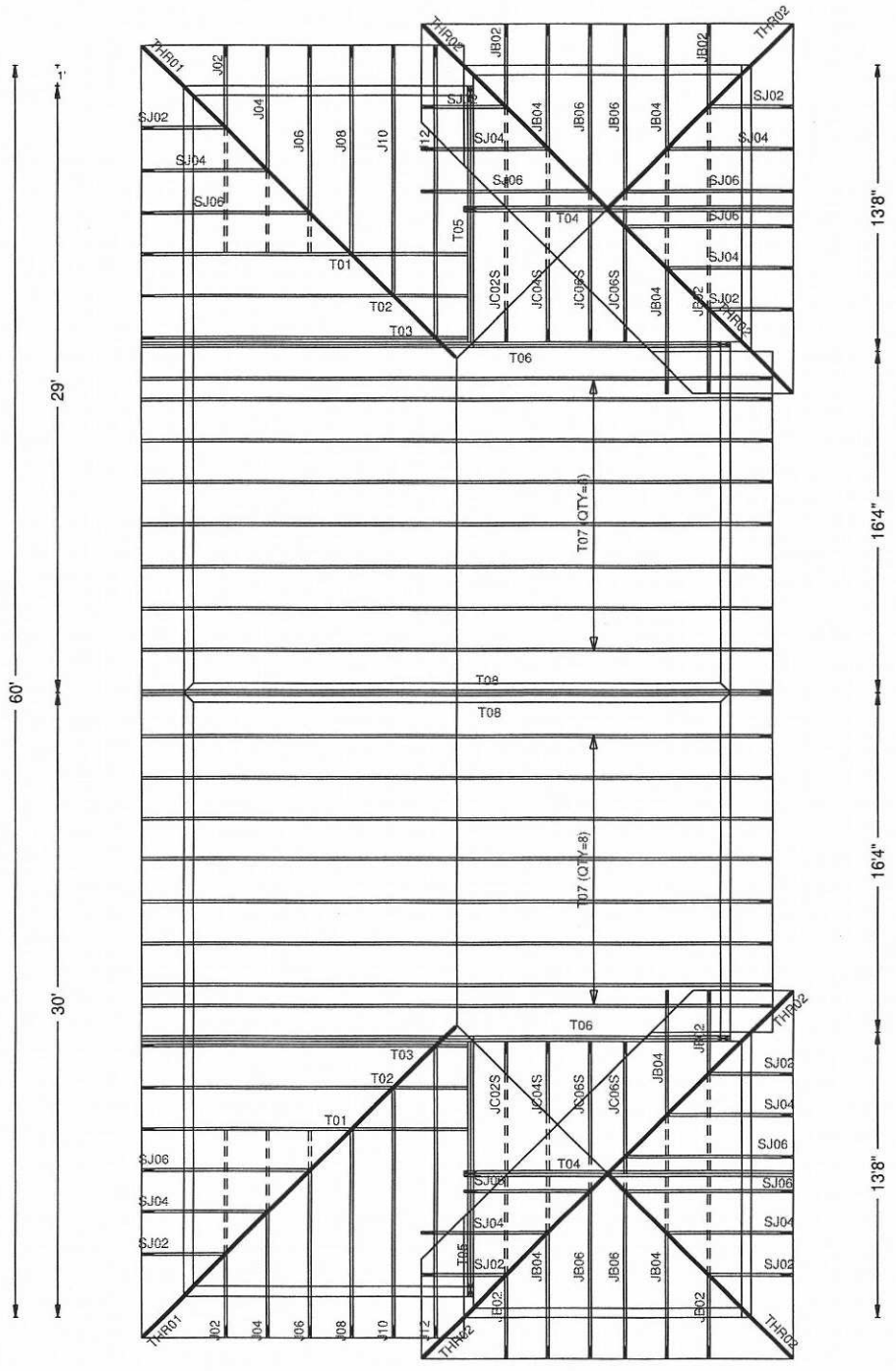
Trus-Way INC.
Quality - Service - Integrity
The Builders Choice
(877) TRUSWAY (878-7929)
(360) 750-1470 (503) 285-2615

PALMER
4-PLEX

Customer: CUSTOMER:
Owner: STAN LINK
Plan: <Not Found>
Salesman: Josh Gedenberg

JOB NO:
124309

PAGE NO
1 OF 1



2 X 6 TRUSS TC'S

13'4" 13'8"

27'

STAN LINK
42# COMP ROOF
4/12 PITCH 2-0 OH
1-6 TOTAL HEEL

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Customer: CUSTOMER:
Owner: STAN LINK
Plan: <Not Found>
Salesman: Josh Gedenberg
Elevation: <Not Found>
Elevation: <Not Found>

JOB NO:
124309

PAGE NO:
1 OF 1

12-K3345 DK 9 of 10

ITW Building Components Group, Inc.

8351 Rovana Circle Sacramento, CA 95828 (916) 387-0116
 Document ID:1URC561-Z1220104403

Truss Fabricator: **Trus-Way, Inc**
Job Identification: **124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR**
Model Code: **IRC**
Truss Criteria: **IRC2009/TPI-2007(STD)**
Engineering Software: **Alpine proprietary truss analysis software. Version 10.03.**
Truss Design Loads: **Roof - 42 PSF @ 1.15 Duration**
Floor - N/A
Wind - 110 MPH (ASCE 7-05-Closed)

Notes:

1. **Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1.**
2. **As shown on attached drawings; the drawing number is preceded by: CAUSR561**

Details: A1103005-GBLLETIN-
Submitted by CWC 10:43:45 11-20-2012 Reviewer: LVT
$ $

REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL

EXP. 12-31-13 11/20/2012

#	Ref Description	Drawing#	Date
1	16459--J02	12325038	11/20/12
2	16460--J04	12325039	11/20/12
3	16461--J06	12325040	11/20/12
4	16462--J08	12325041	11/20/12
5	16463--J10	12325042	11/20/12
6	16464--J12	12325043	11/20/12
7	16465--JB02	12325044	11/20/12
8	16466--JB04	12325045	11/20/12
9	16467--JB06	12325046	11/20/12
10	16468--JC02S	12325047	11/20/12
11	16469--JC04S	12325048	11/20/12
12	16470--JC06S	12325049	11/20/12
13	16471--SJ02	12325050	11/20/12
14	16472--SJ02	12325051	11/20/12
15	16473--SJ04	12325052	11/20/12
16	16474--SJ04	12325053	11/20/12
17	16475--SJ06	12325054	11/20/12
18	16476--SJ06	12325055	11/20/12
19	16477--THR01	12325100	11/20/12
20	16478--THR02	12325058	11/20/12
21	16479--THR02	12325059	11/20/12
22	16480--THR02	12325060	11/20/12
23	16481--T01	12325101	11/20/12
24	16482--T02	12325102	11/20/12
25	16483--T03	12325103	11/20/12
26	16484--T04	12325061	11/20/12
27	16485--T05	12325106	11/20/12
28	16486--T06	12325109	11/20/12
29	16487--T07	12325056	11/20/12
30	16488--T08	12325057	11/20/12

City of Portland
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APR 04 2013
Permit Number

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - J02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 65 plf at -2.00 to 65 plf at 1.91
BC- From 10 plf at 0.00 to 10 plf at 7.94
BC- 360.00 lb Conc. Load at 2.00
BC- 38.75 lb Conc. Load at 4.00, 6.00

Wind loads and reactions based on MWFRS.

110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.02" due to live load and 0.33" due to total load at X = 3-8-10.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

City of Portland
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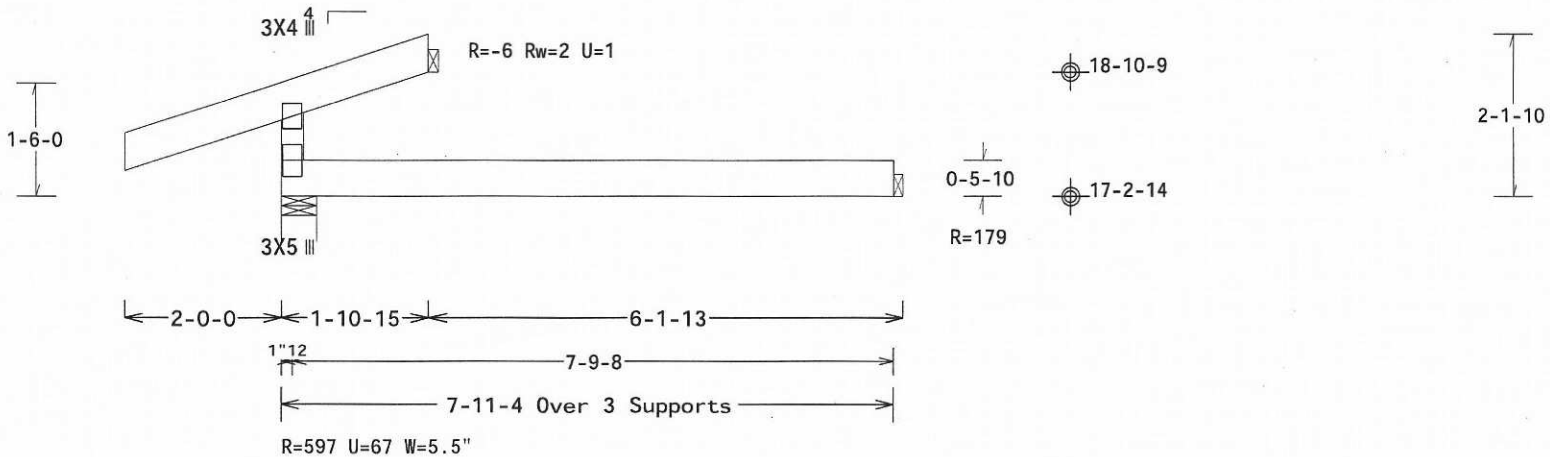
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 50000 IVE:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (!) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

REGISTERED PROFESSIONAL ENGINEER
14859
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16459
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325038
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496495
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - J04)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.05" due to live load and 0.14" due to total load at X = 3-11-10.

Unbalanced snow loads have not been considered.

(**)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 19.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
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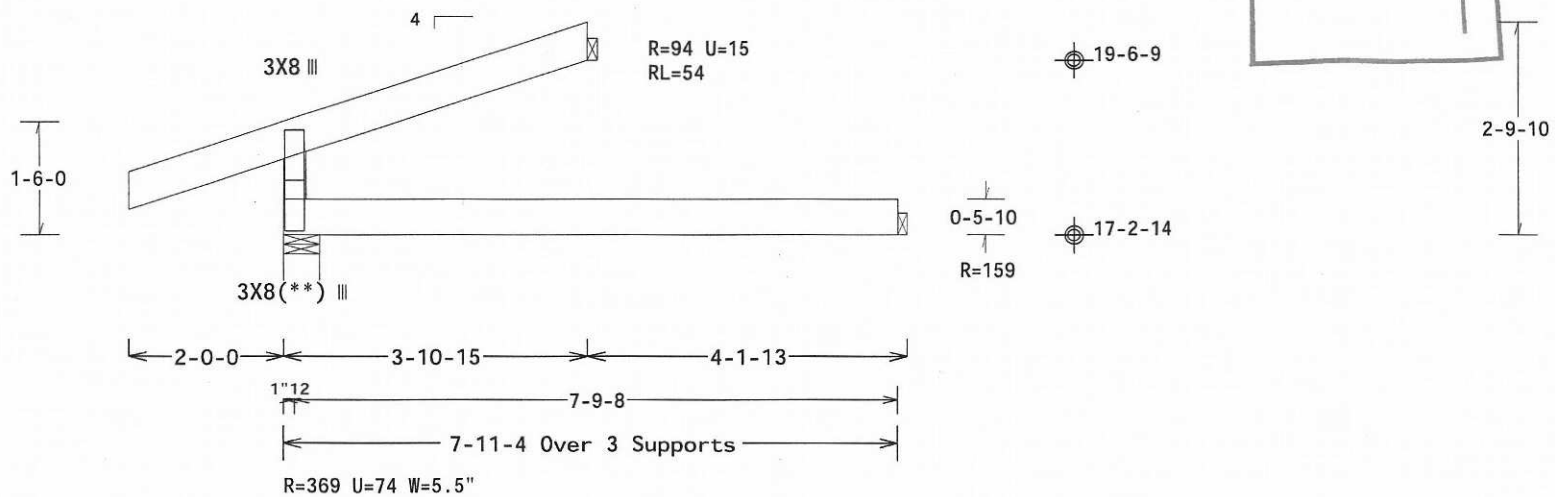
APR 04 2013
Permit Number



PLT TYP. Wave

Design Crit: IRC2009/TPI-2007(STD)
FT/RT=8%(0%)/4(1)

10.03.03-060.16 QTY:2

OR/-/1/-/-/R/-

Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16460
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325039
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496379
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - J06)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.05" due to live load and 0.14" due to total load at X = 3-11-10.

Unbalanced snow loads have not been considered.

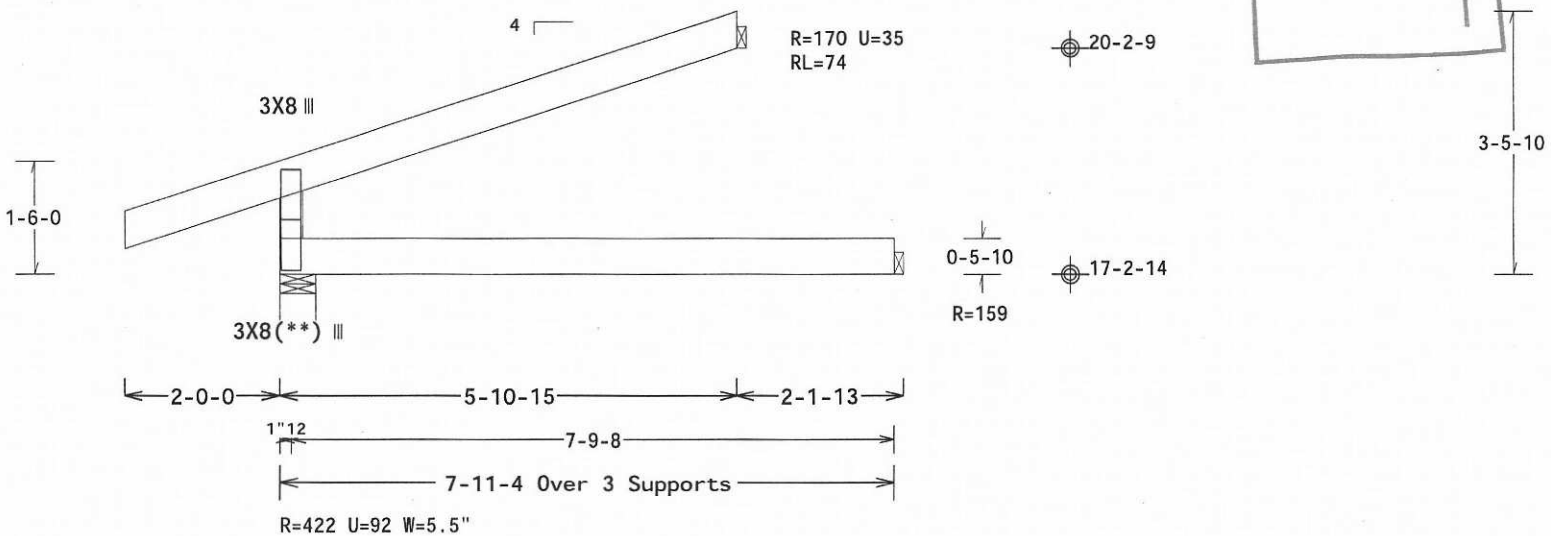
(**)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 19.39 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.06C QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

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Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16461
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325040
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496388
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - J08)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

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Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

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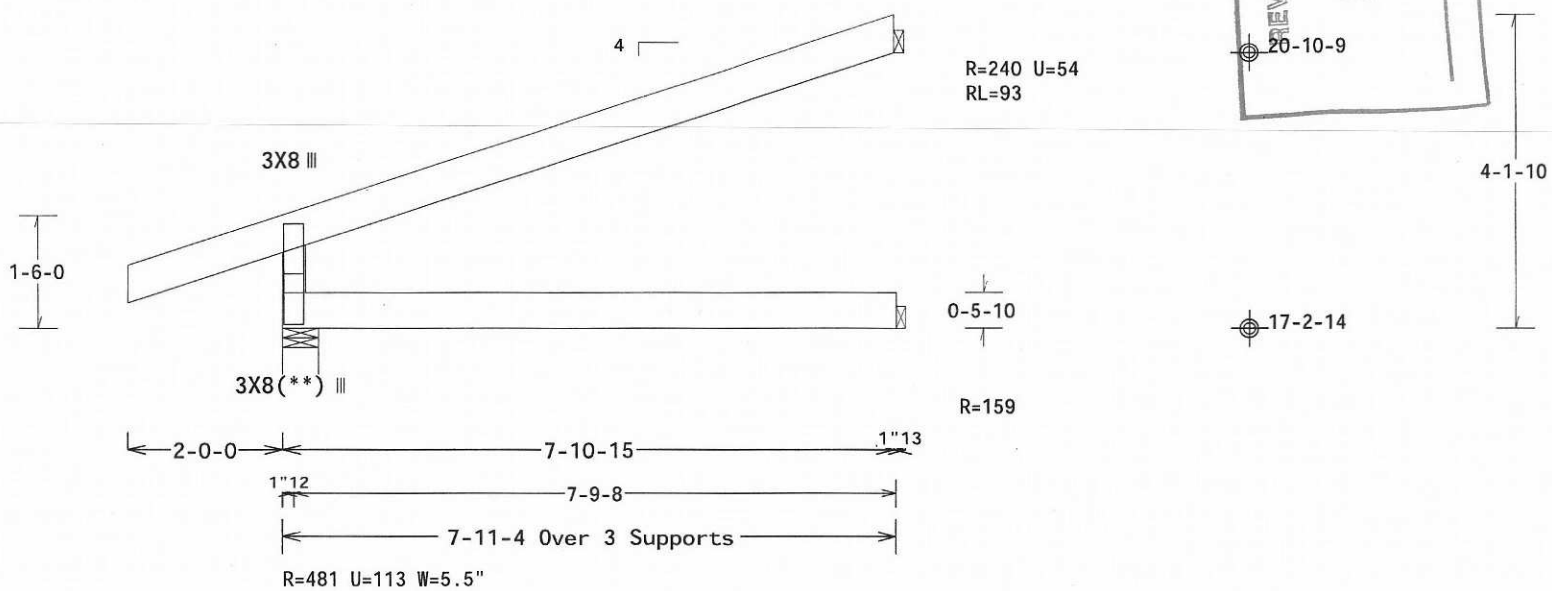

Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 0681 TC QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

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3901 NE 68th St., Vancouver WA

ALPINE

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1969 CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16462
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325041
BC LL	0.0 PSF		CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496395
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - J10)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.05" due to live load and 0.14" due to total load at X = 3-11-10.

Unbalanced snow loads have not been considered.

(**)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

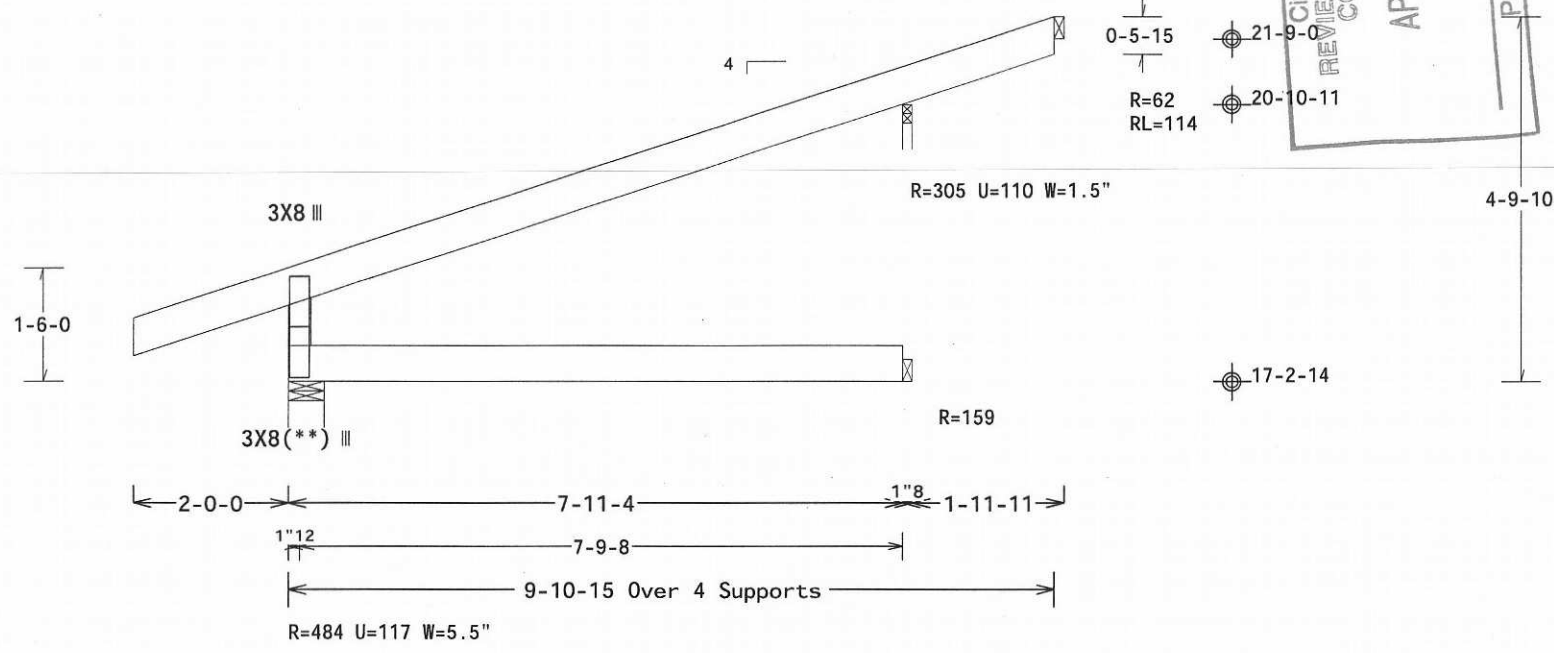
110 mph wind, 20.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Shim all supports to solid bearing.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)
FT/RT=8%(0%)/4(1)

PLT TYP. Wave

10.03.03-060.1[illegible] QTY:2

OR/-/1/-/-/R/-

Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE **A PROPERLY ATTACHED RIGID CEILING.**

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (!) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

REGISTERED PROFESSIONAL ENGINEER
14859
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16463
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325042
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496402
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - J12)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.05" due to live load and 0.14" due to total load at X = 3-11-10.

Unbalanced snow loads have not been considered.

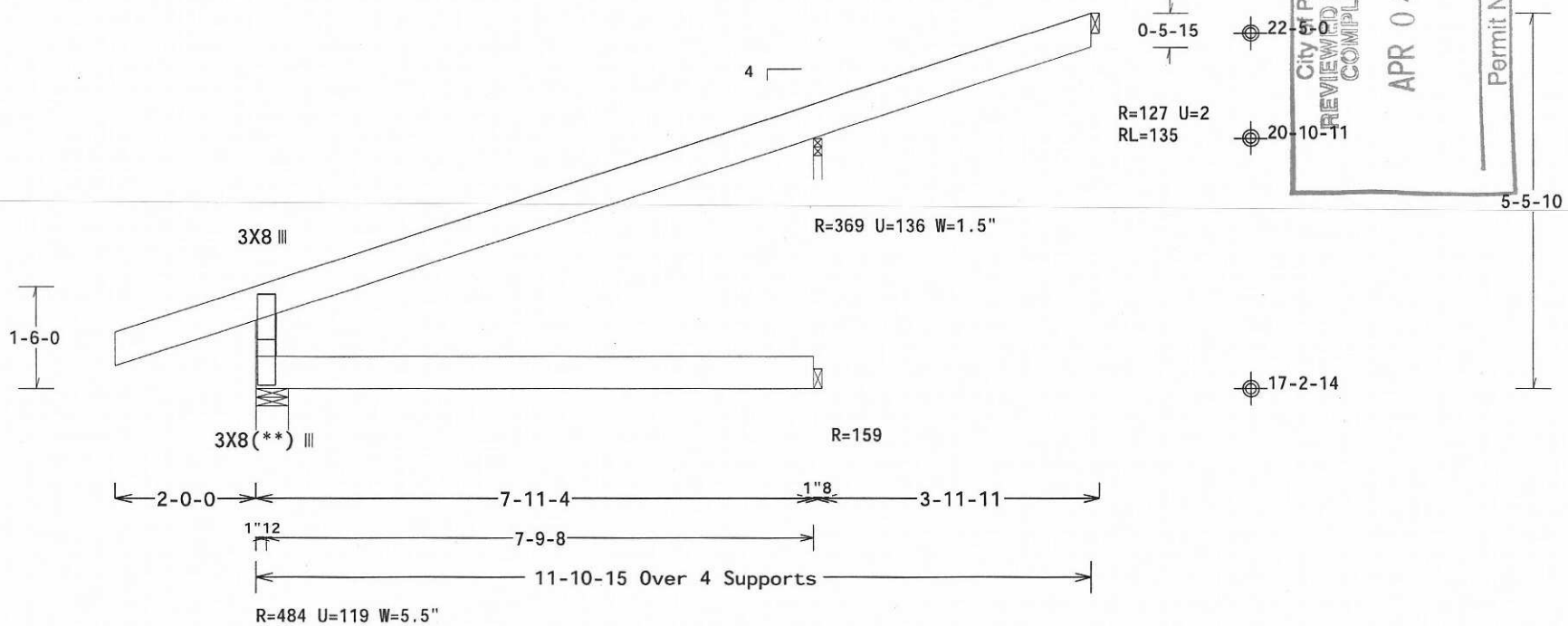
(**)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 20.39 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Shim all supports to solid bearing.



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04-0900 MKV:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16464
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325043
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496407
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - JB02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 65 plf at -2.00 to 65 plf at 1.91
BC- From 20 plf at 0.00 to 20 plf at 6.70
BC- 221.00 lb Conc. Load at 2.00
BC- 38.75 lb Conc. Load at 4.00, 6.00

Wind loads and reactions based on MWFRS.

110 mph wind, 19.97 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

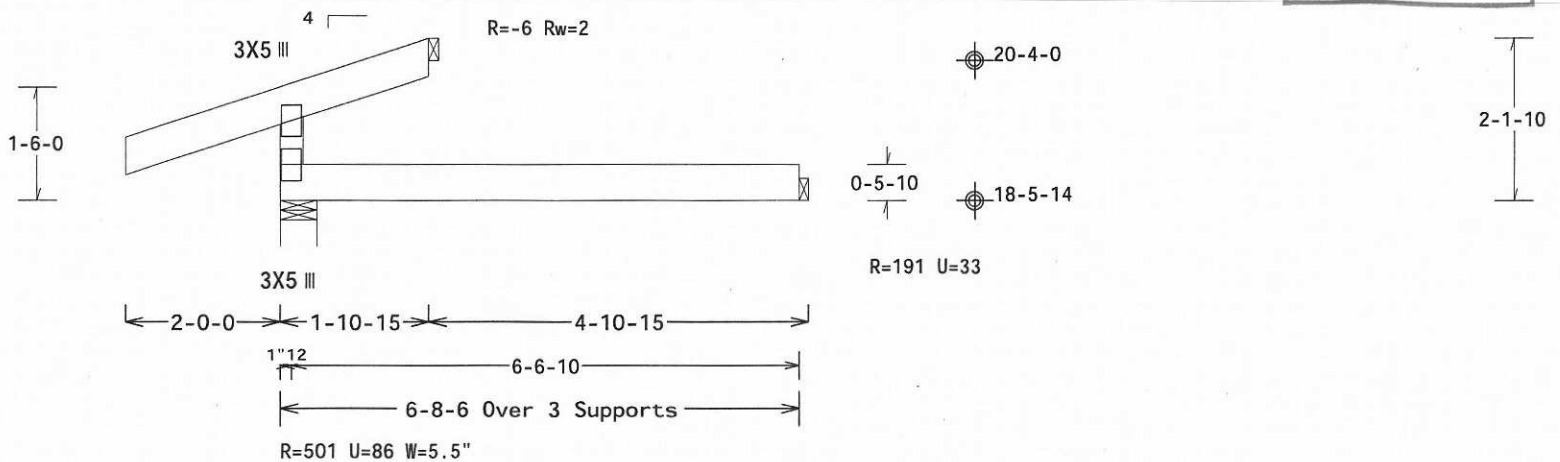
Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.04" due to live load and 0.14" due to total load at X = 3-2-11.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 QTY:6 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16465
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325044
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637454
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - JB04)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

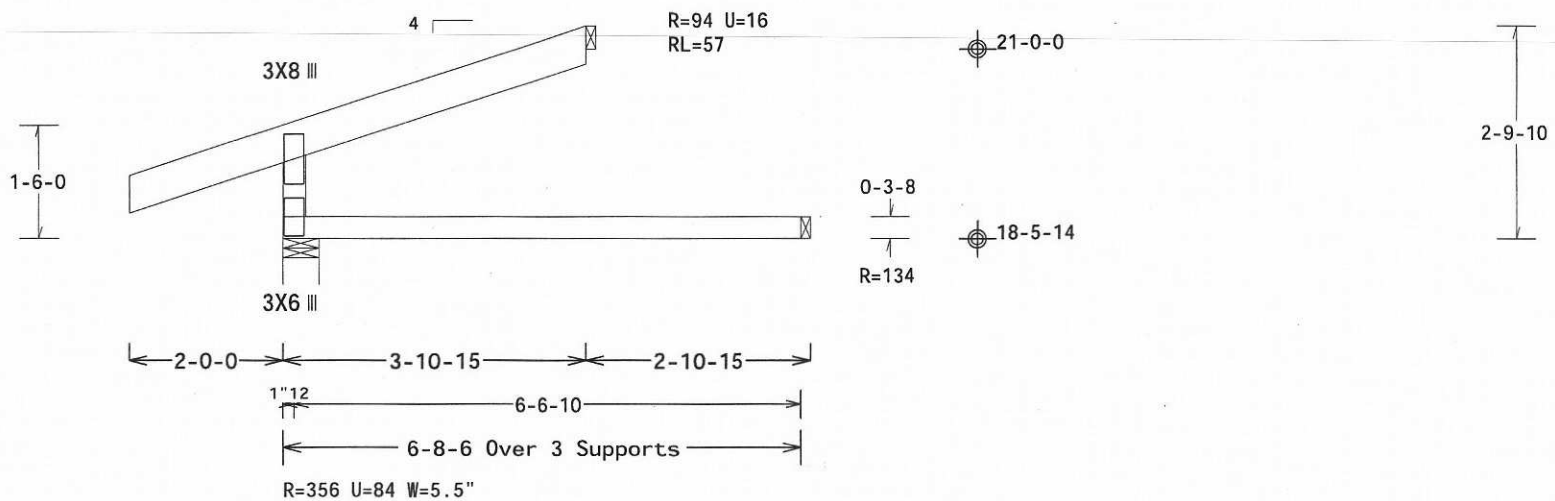
110 mph wind, 20.31 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.10" due to live load and 0.29" due to total load at X = 3-5-11.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.0681.16 QTY:6 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16466
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325045
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637456
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - JB06)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

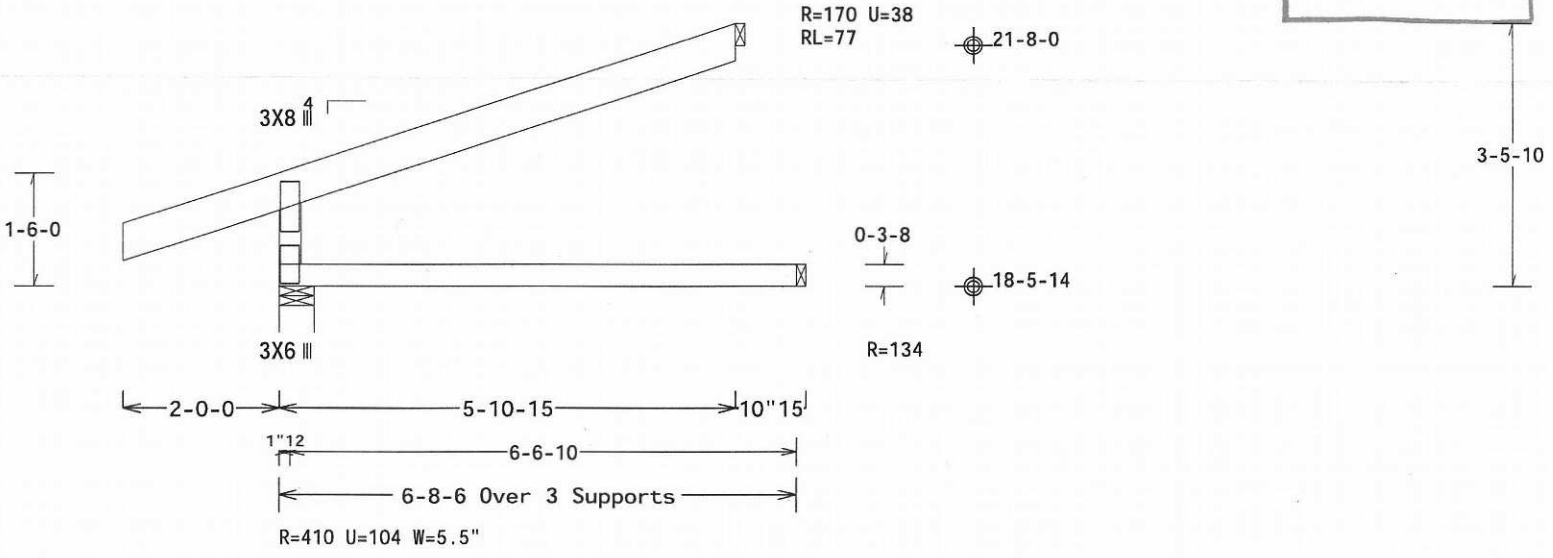
110 mph wind, 20.64 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.10" due to live load and 0.29" due to total load at X = 3-5-11.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.0060 QTY:4 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16467
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325046
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637458
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - JC02S)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

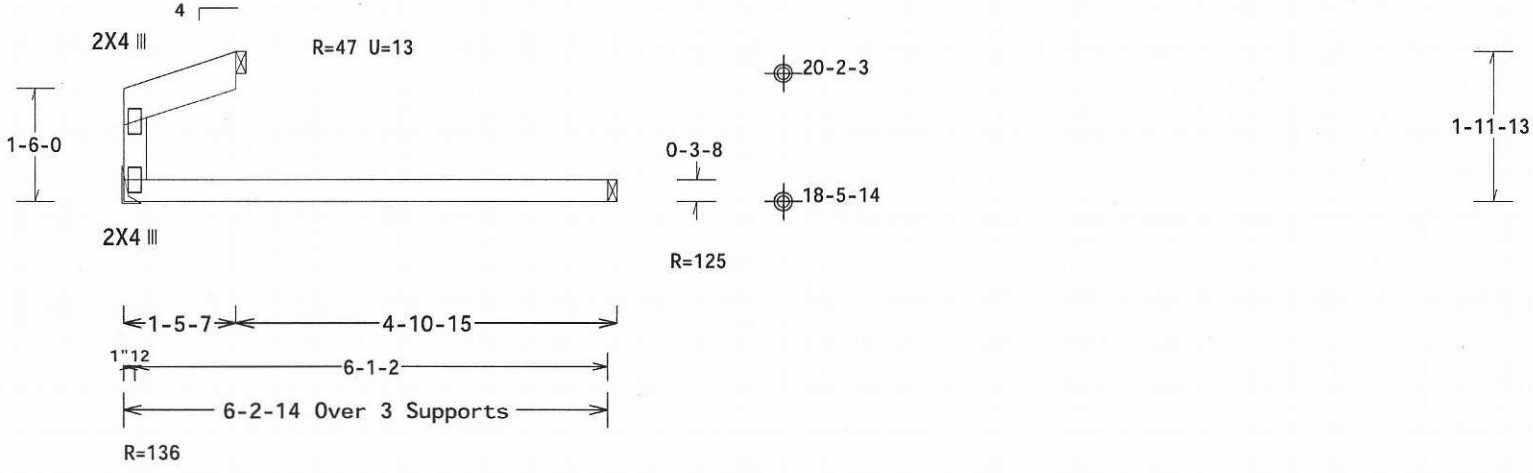
110 mph wind, 20.23 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16468
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325047
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637447
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - JC04S)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

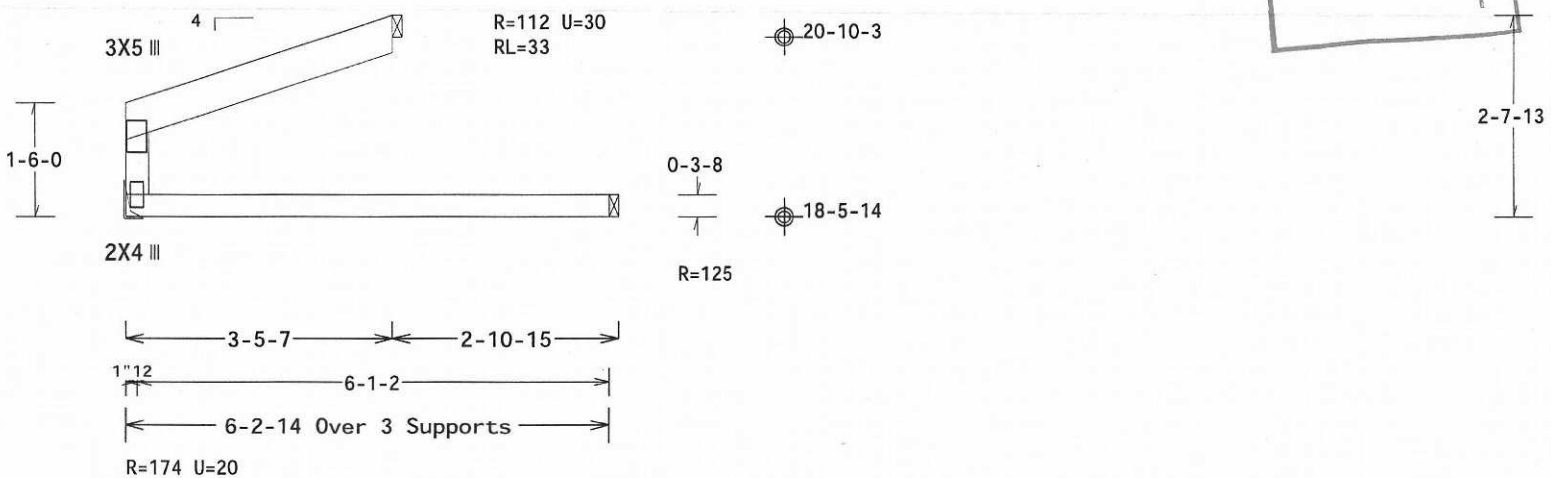
110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.00 06/07/NG QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE **A PROPERLY ATTACHED RIGID CEILING.**

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (i) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16469
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325048
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637443
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - JC06S)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

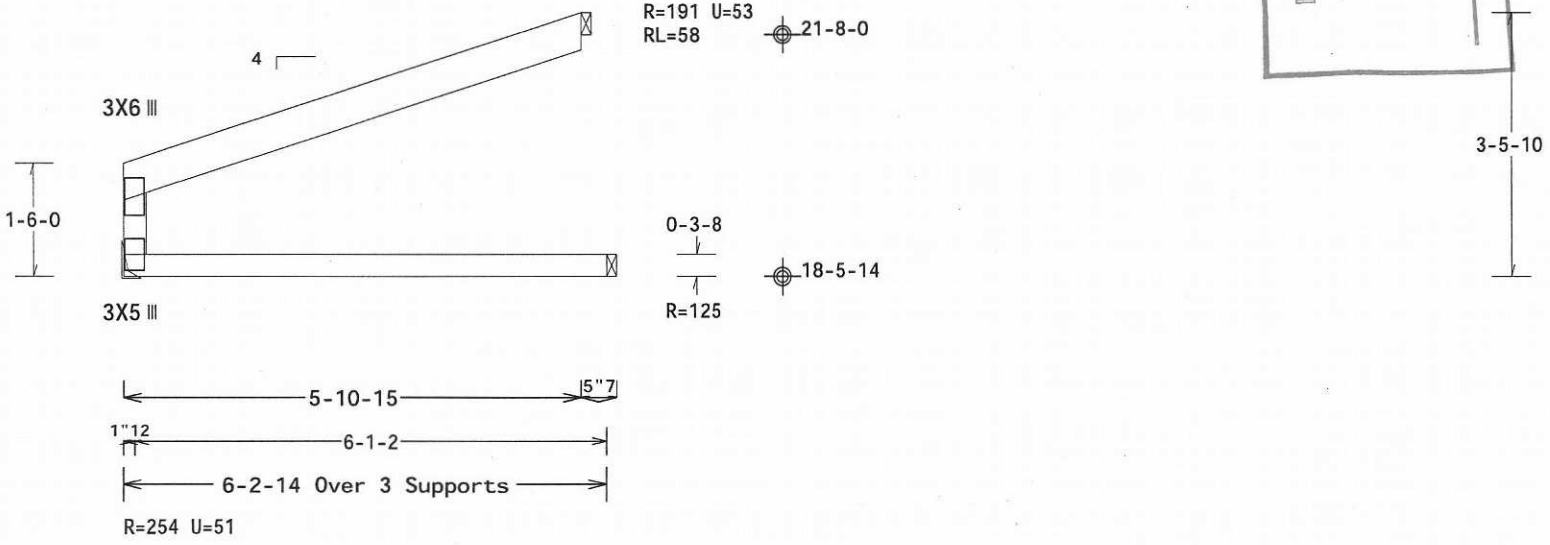
110 mph wind, 20.97 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

Unbalanced snow loads have not been considered.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 060115 QTY:4 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16470
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325049
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637439
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

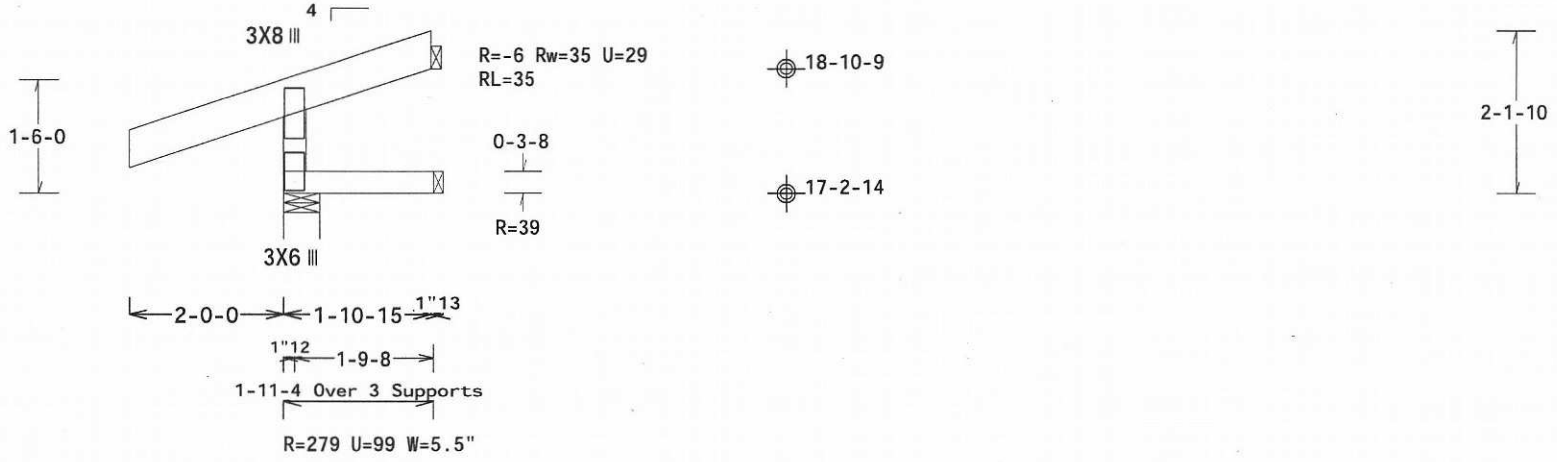
Unbalanced snow loads have not been considered.

110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.0001 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14859
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16471
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325050
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496352
DUR.FAC.	1.15	FROM	KB
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

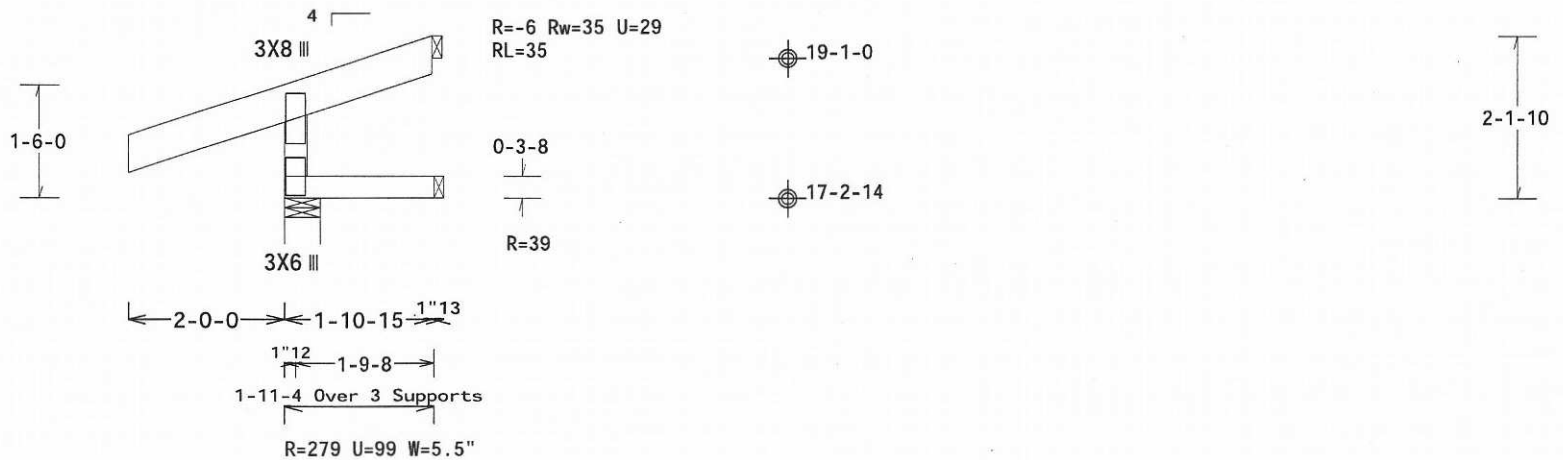
Unbalanced snow loads have not been considered.

110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 060[illegible]:6 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16472
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325051
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637425
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ04)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

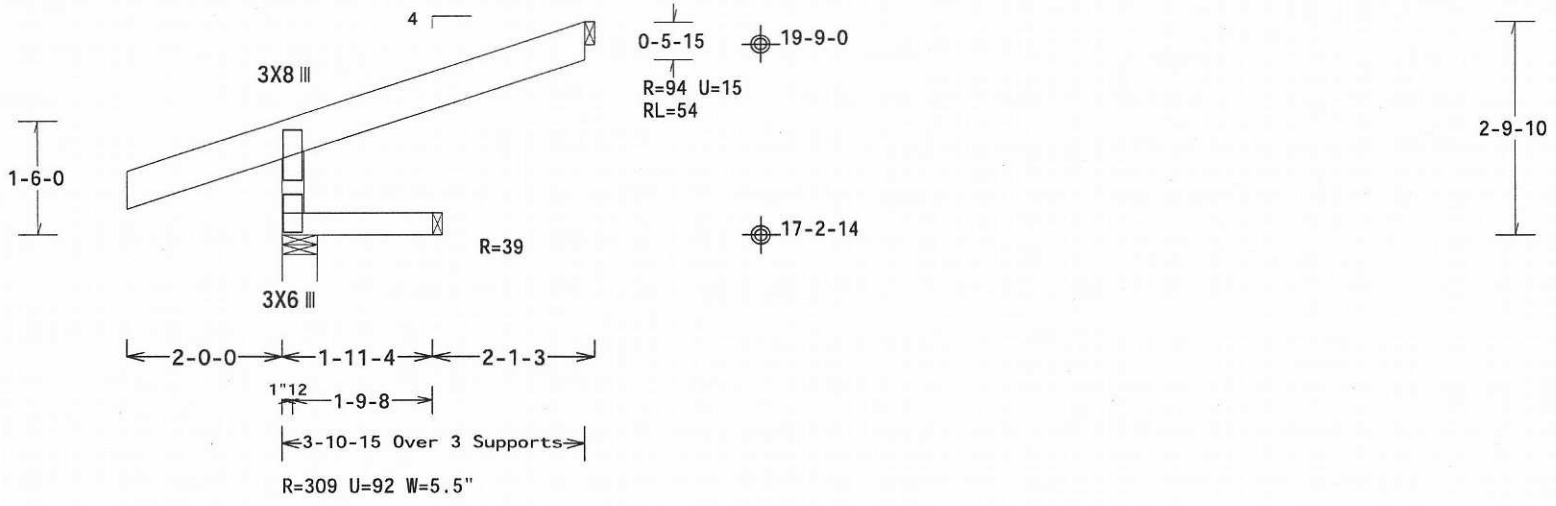
Unbalanced snow loads have not been considered.

110 mph wind, 19.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.0601.16 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16473
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325052
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496355
DUR.FAC.	1.15	FROM	KB
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ04)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

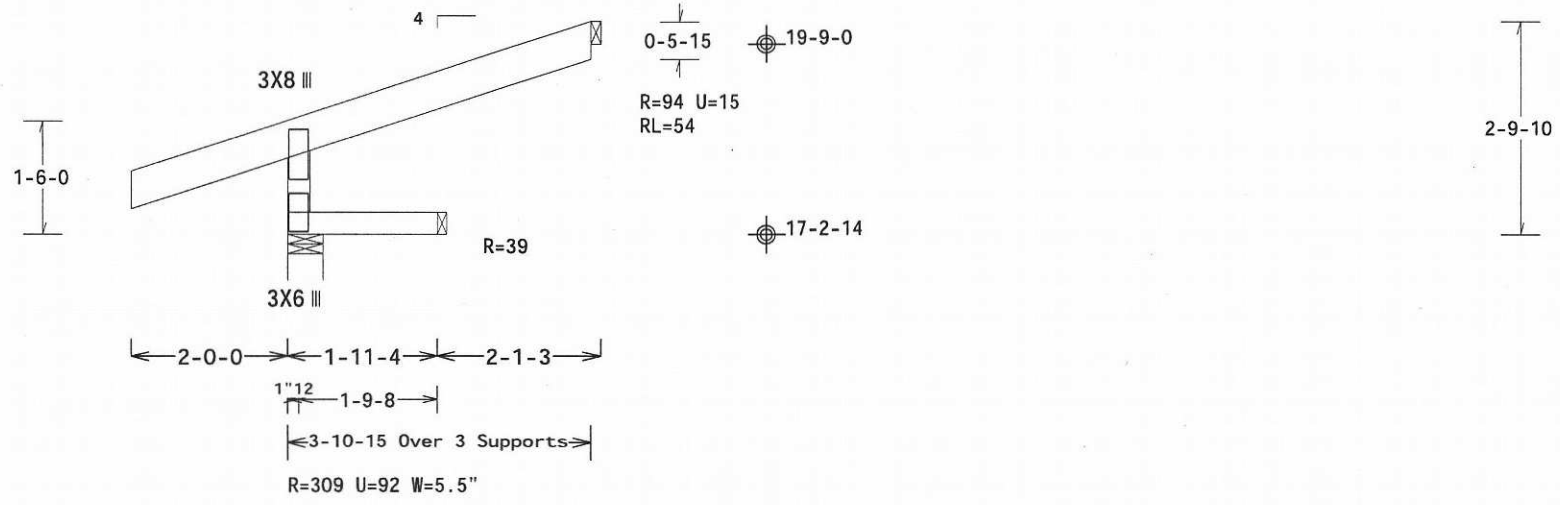
Unbalanced snow loads have not been considered.

110 mph wind, 19.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.03.0600.16 QTY:6 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16474
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325053
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637427
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ06)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

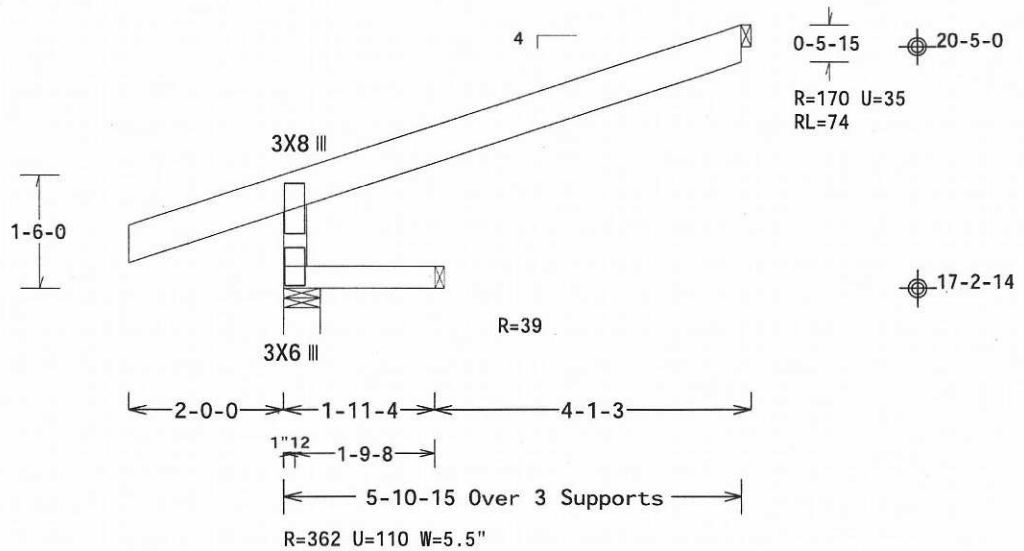
Unbalanced snow loads have not been considered.

110 mph wind, 19.39 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit N -38



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 0681 JS QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16475
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325054
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496358
DUR.FAC.	1.15	FROM	KB
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - SJ06)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

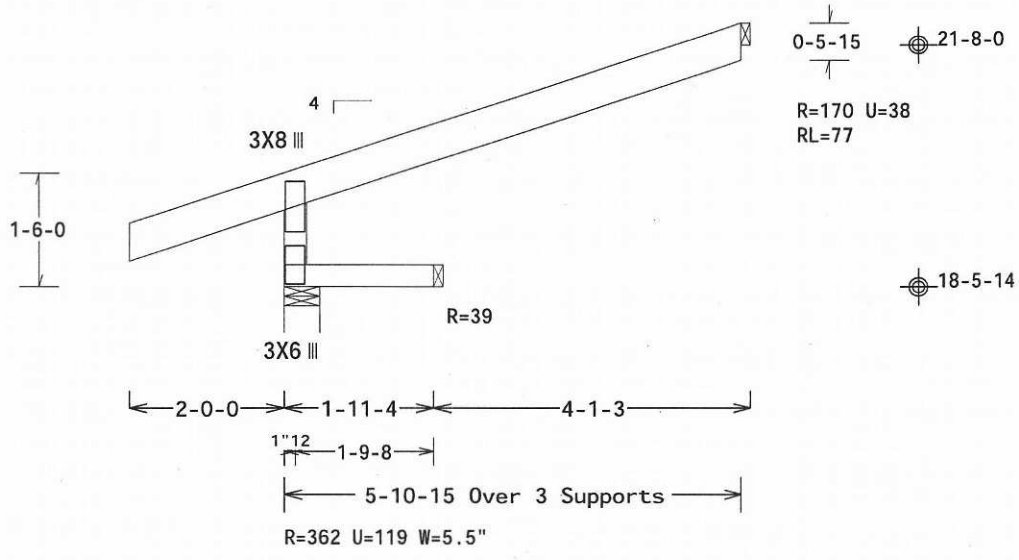
Unbalanced snow loads have not been considered.

110 mph wind, 20.64 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR CODE
COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.060 QTY:6 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1999
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16476
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325055
BC LL	0.0 PSF		CA-ENG LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637429
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THR01)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 0 plf at -2.83 to 74 plf at 0.00
TC- From 0 plf at 0.00 to 156 plf at 9.90
TC- From 64 plf at 9.90 to 64 plf at 18.26
BC- From 0 plf at 0.00 to 47 plf at 2.68
TC- 58.44 lb Conc. Load at -2.83

Wind loads and reactions based on MWFRS.

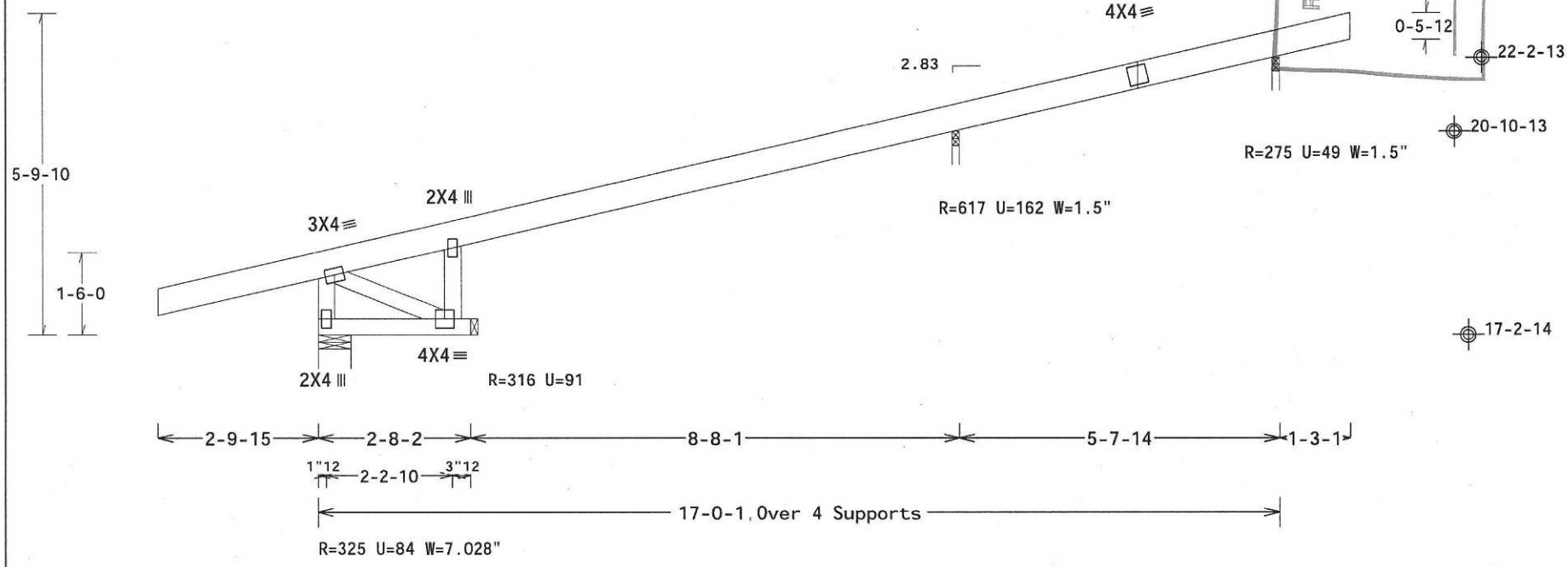
110 mph wind, 20.56 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Trusses to be spaced at 0.0" OC maximum.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Shim all supports to solid bearing.

City of Portland REVIEWED FOR CODE COMPLIANCE APR 04 2013 Permit Issued



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.0801 QTY:2 OR/-/1/-/-/R/- Scale =.375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL

EXP. 12-31-13

11/20/2012

TC LL	25.0 PSF	REF	R561-- 16477
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325100
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496492
DUR.FAC.	1.15	FROM	KTC
LOADING	SEE ABOVE	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THR02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Trusses to be spaced at 0.0" OC maximum.

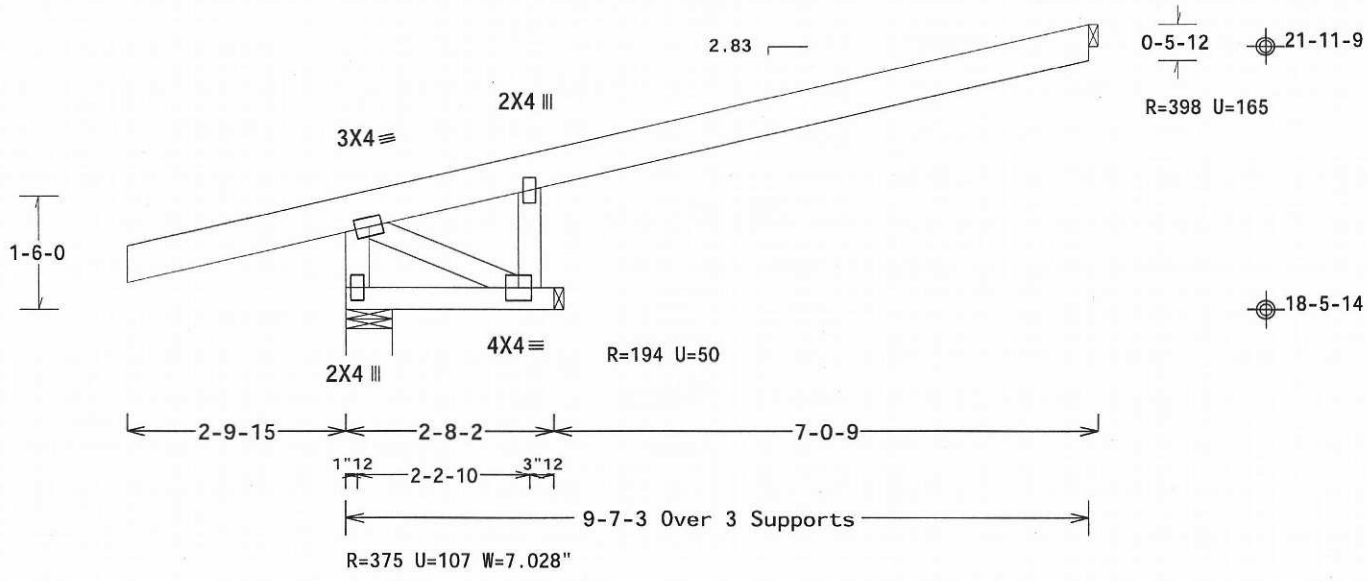
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads and reactions based on MWFRS.

Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.06 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1999
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16478
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325058
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637434
DUR.FAC.	1.15	FROM	KTC
LOADING	SEE ABOVE	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THR02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Trusses to be spaced at 0.0" OC maximum.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

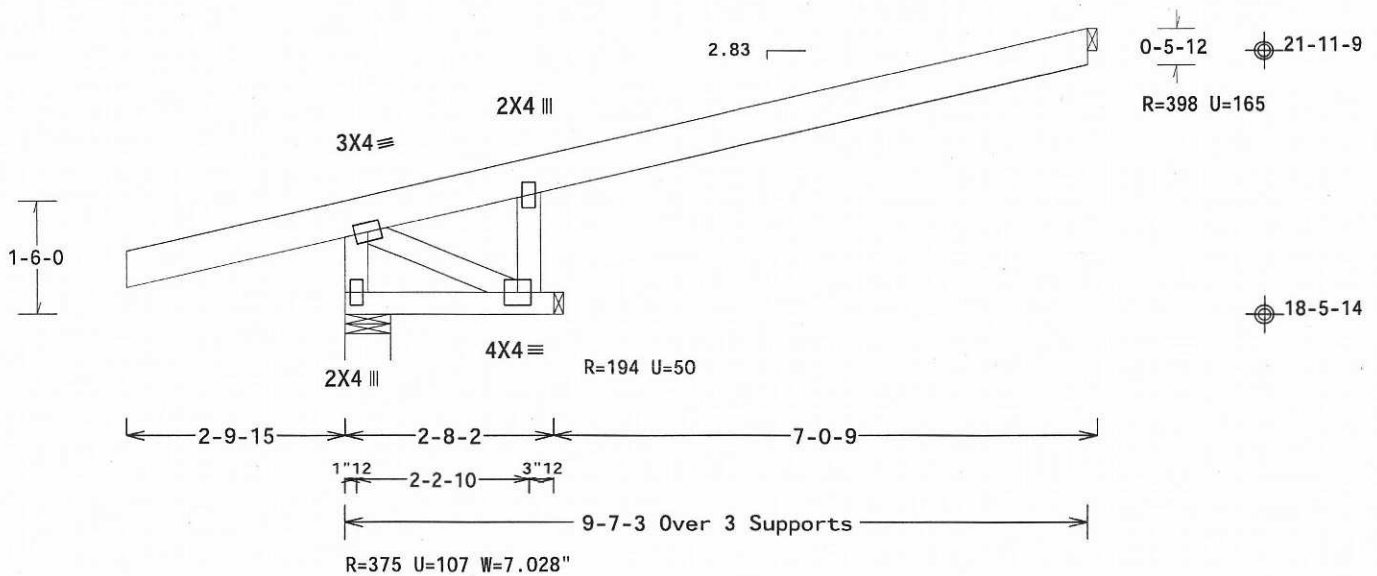
110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads and reactions based on MWFRS.

Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave

FT/RT=8%(0%)/4(1)

10.03.04 060618 LVT:2

OR/-/1/-/-/R/-

Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16479
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325059
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637434
DUR.FAC.	1.15	FROM	KTC
LOADING	SEE ABOVE	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THR02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Trusses to be spaced at 0.0" OC maximum.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

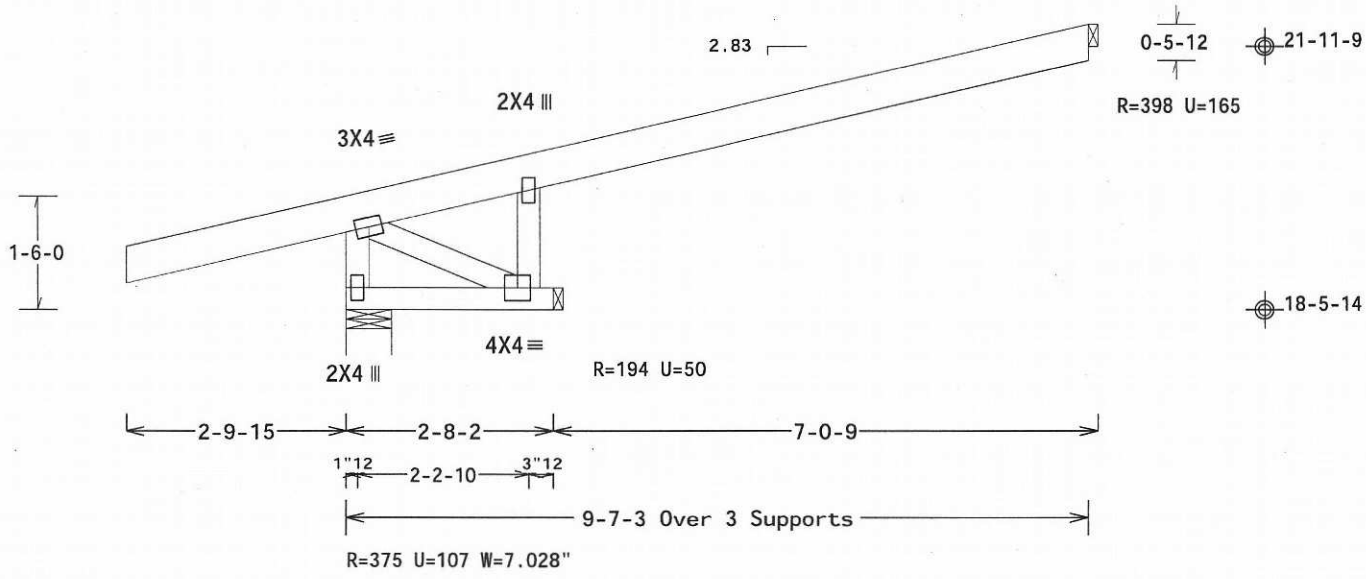
110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads and reactions based on MWFRS.

Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.00 0601 JB QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

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Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16480
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325060
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637434
DUR.FAC.	1.15	FROM	KTC
LOADING	SEE ABOVE	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T01)

Top chord 1.5"x5.625" SPF #1/#2
Bot chord 2x4 DF-L #1&Bet.
Webs 2x4 SPF #1/#2 :W1, W3, W7 2x4 DF-L Standard:

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 65 plf at -2.00 to 65 plf at 7.94
TC- From 215 plf at 7.94 to 215 plf at 13.52
BC- From 20 plf at 0.00 to 20 plf at 2.00
BC- From 10 plf at 2.00 to 10 plf at 13.52
TC- 620.00 lb Conc. Load at 7.91
BC- 179.21 lb Conc. Load at 2.00
BC- 158.75 lb Conc. Load at 4.00, 6.00, 8.00,10.00
12.00

Wind loads and reactions based on MWFRS with additional C&C member design.

110 mph wind, 19.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

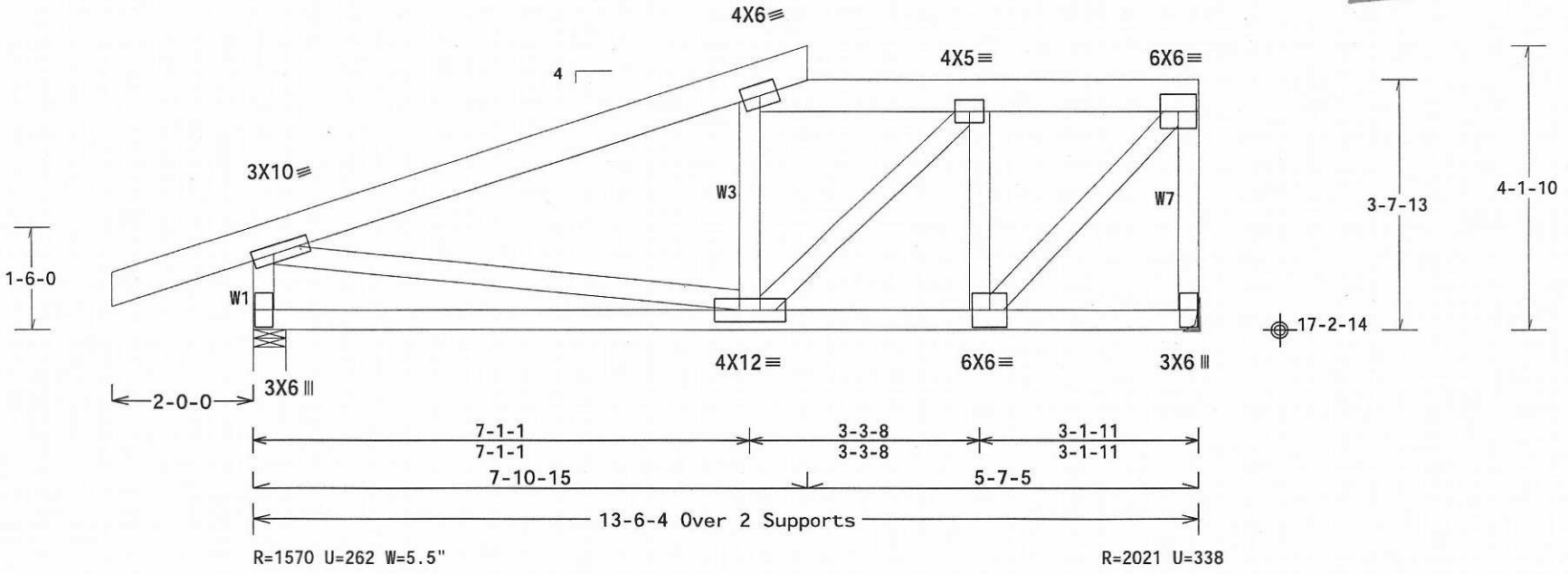
Right end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

City of Portland OREGON REVIEWED FOR CODE COMPLIANCE APR 04 2013 Permit Number



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.1[illegible]0409.MIL QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

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Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1999 CHRISTIAN W. CHAPPELL

EXP. 12-31-13

11/20/2012

TC LL	25.0 PSF	REF	R561-- 16481
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325101
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	17299 REV
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T02)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

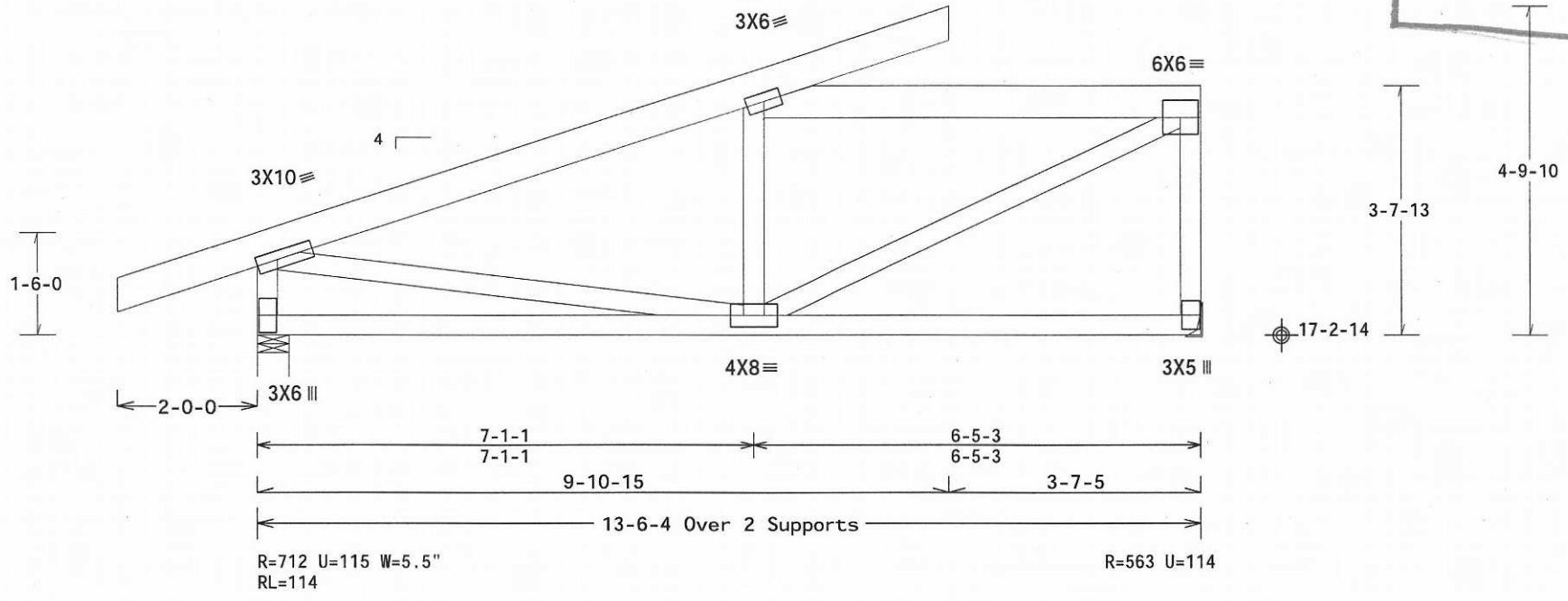
110 mph wind, 20.06 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

CITY OF PORTLAND REVIEWED FOR CODE COMPLIANCE APR 04 2013



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.1 0409 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL

EXP. 12-31-13

11/20/2012

TC LL	25.0 PSF	REF	R561-- 16482
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325102
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	17315 REV
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T03)

Top chord 1.5"x5.625" DF-L SS(g) :T3 2x4 DF-L #1&Bet.(g):
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 65 plf at -2.00 to 65 plf at 11.91
TC- From 130 plf at 11.91 to 130 plf at 13.52
BC- From 20 plf at 0.00 to 20 plf at 13.52
TC- 382.00 lb Conc. Load at 11.85

Wind loads based on both MWFRS and C&C, reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

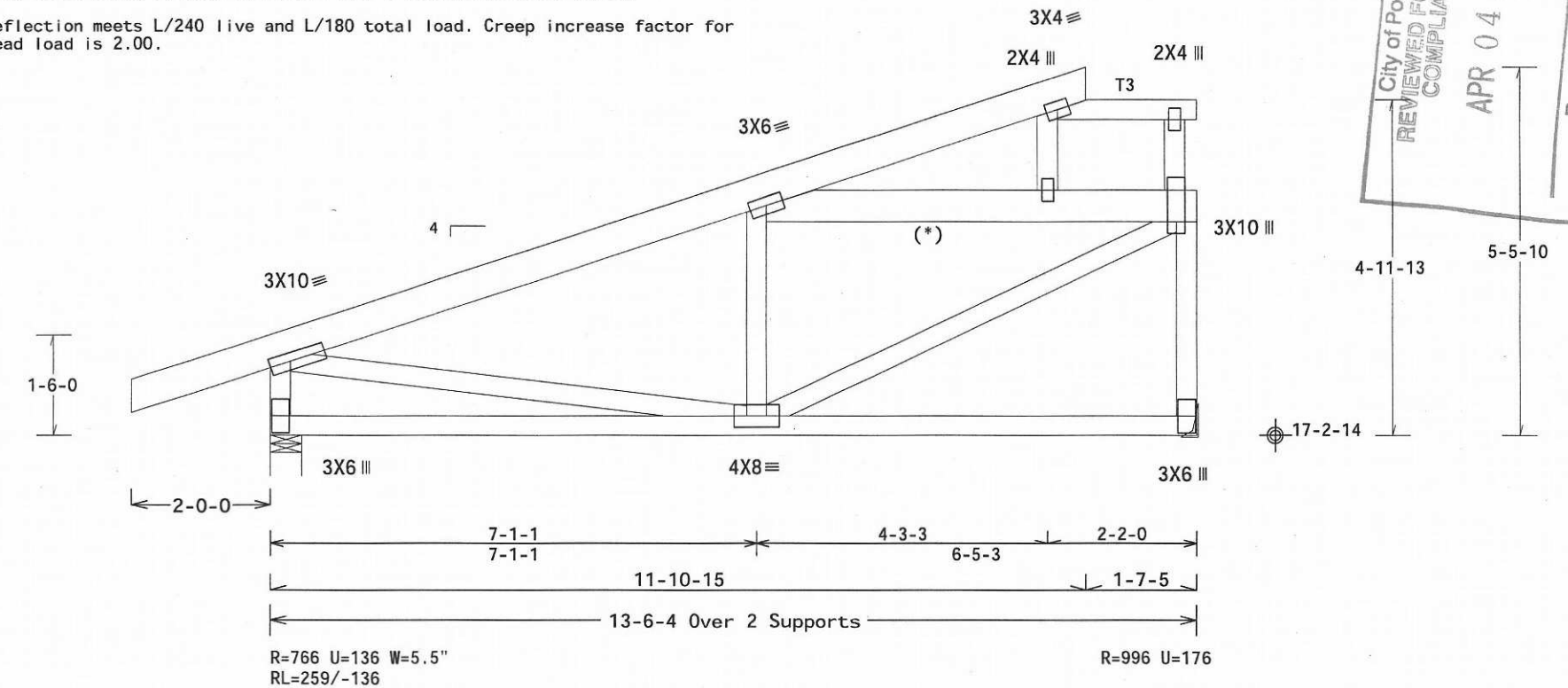
110 mph wind, 20.39 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

(*)In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

City of Portland REVIEWED FOR CODE COMPLIANCE APR 04 2013 Permit Number



Design Crit: IRC2009/TPI-2007(STD)
PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.12-0409.12 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL

EXP. 12-31-13

11/20/2012

TC LL	25.0 PSF	REF	R561-- 16483
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325103
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	17320 REV
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - TO4)

Top chord 2x4 DF-L #1&Bet.(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g) :W3 1.5"x5.625" DF-L SS(g):

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 65 plf at 0.00 to 65 plf at 15.67
BC- From 20 plf at 0.00 to 20 plf at 0.46
BC- From 10 plf at 0.46 to 10 plf at 11.67
BC- From 20 plf at 11.67 to 20 plf at 13.67
TC- 1600.00 lb Conc. Load at 6.83
BC- 315.61 lb Conc. Load at 2.00
BC- 258.75 lb Conc. Load at 4.00, 6.00, 7.67
BC- 267.92 lb Conc. Load at 9.67
BC- 381.65 lb Conc. Load at 11.67

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

2 COMPLETE TRUSSES REQUIRED

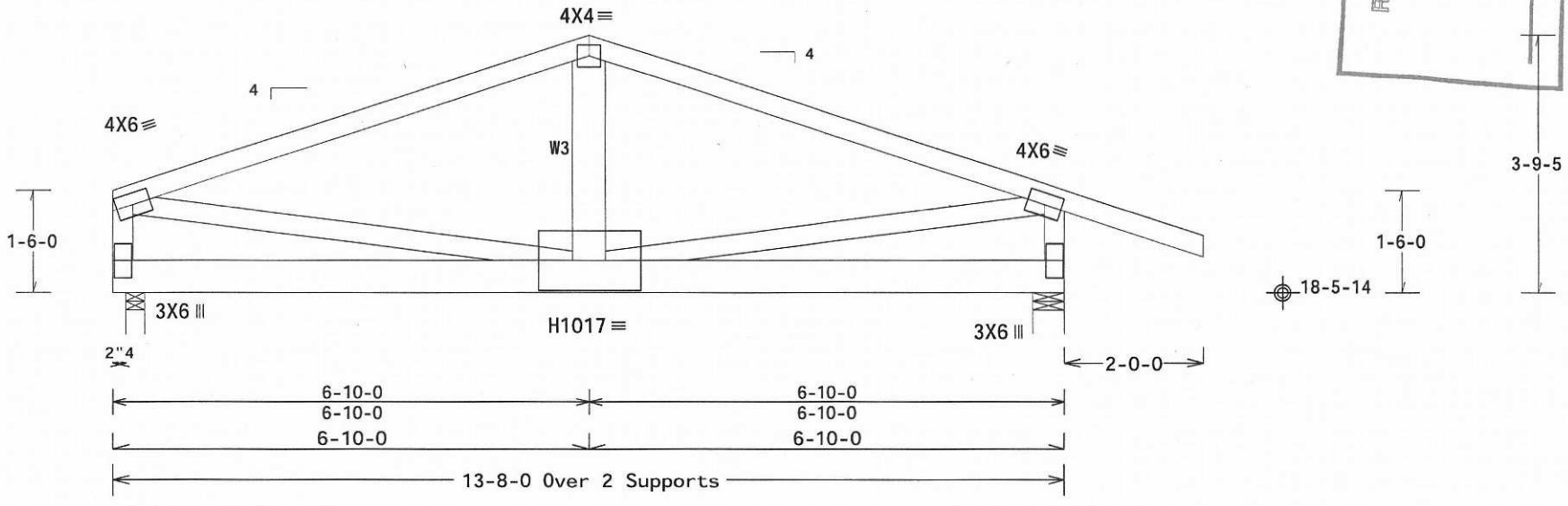
Nail Schedule:0.131"x3" nails
Top Chord: 1 Row @ 6.25" o.c.
Bot Chord: 1 Row @ 6.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 20.80 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Calculated vertical deflection is 0.04" due to live load and 0.11" due to total load at X = 10-5-15.



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=8%(0%)/4(1) 10.03.04 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16484
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325061
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	496473
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T05)

Top chord 2x4 DF-L #1&Bet.(g)
Bot chord 1.5"x5.625" DF-L SS(g)
Webs 2x4 DF-L Standard(g)
:W2, W4, W10, W12 2x4 DF-L #1&Bet.(g):

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 32 plf at 0.00 to 32 plf at 12.21
BC- From 10 plf at 0.00 to 10 plf at 12.21
TC- 278.54 lb Conc. Load at 0.99
TC- 308.00 lb Conc. Load at 2.99
TC- 363.00 lb Conc. Load at 4.99
TC- 2205.00 lb Conc. Load at 5.83
BC- 2021.00 lb Conc. Load at 8.00
BC- 563.00 lb Conc. Load at 10.00
BC- 996.00 lb Conc. Load at 12.00

Max JT VERT DEFL: LL: 0.19" DL: 0.27" recommended camber 1/2"

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule:0.131"x3" nails
Top Chord: 1 Row @ 3.50" o.c.
Bot Chord: 1 Row @ 3.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 18.49 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

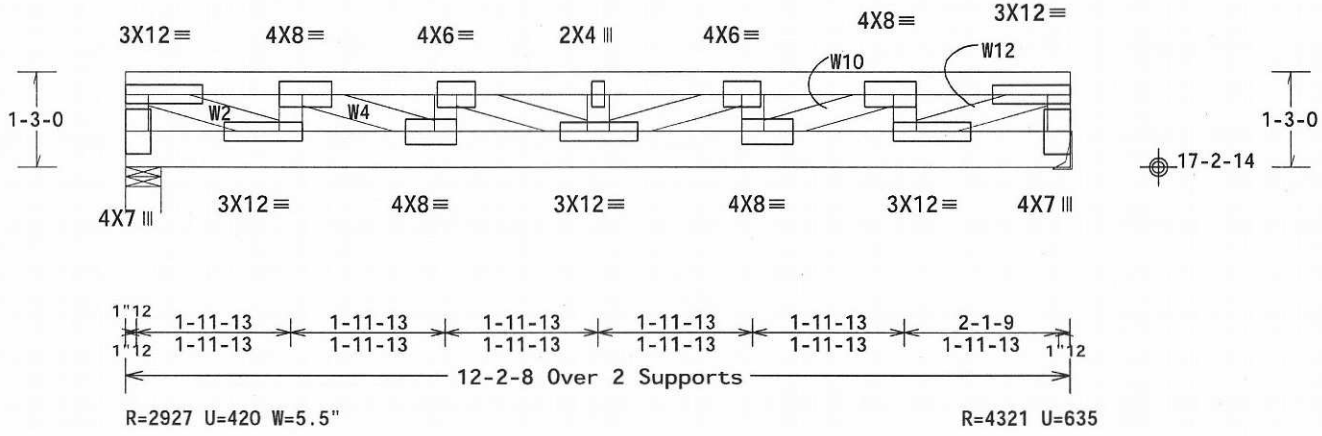
Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

Truss must be installed as shown with top chord up.

City of Portland REVIEWED FOR CODE COMPLIANCE APR 04 2013 Permit Number



Design Crit: IRC2009/TPI-2007(STD)
PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.1 QTY:2 OR/-/1/-/-/R/- Scale =.4375"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA
ALPINE
ITW Building Components Group, Inc.
Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16485
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325106
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	17326 REV
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T06)

Top chord 1.5"x5.625" DF-L SS(g) :T2 2x4 DF-L #1&Bet.(g):
Bot chord 1.5"x5.625" DF-L #2(g)
Webs 2x4 DF-L Standard(g)
:W2, W12, W14 2x4 DF-L #1&Bet.(g): :W3, W6, W7 2x8 DF-L SS:

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Special loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC- From 65 plf at 0.00 to 65 plf at 12.21
TC- From 129 plf at 12.21 to 129 plf at 13.88
TC- From 65 plf at 13.88 to 65 plf at 28.00
BC- From 20 plf at 0.00 to 20 plf at 26.00
TC- 400.00 lb Conc. Load at 12.18
TC- 500.80 lb Conc. Load at 0.97
BC- 4321.00 lb Conc. Load at 12.34
PL- 356.26 lb Conc. Load at (2.99,18.53)
PL- 253.80 lb Conc. Load at (4.97,18.53), (6.69,18.53)
PL- 174.21 lb Conc. Load at (8.67,18.53)
PL- 135.51 lb Conc. Load at (10.68,18.53)

(*)The member of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule:0.131"x3" nails
Top Chord: 1 Row @ 9.50" o.c.
Bot Chord: 1 Row @ 5.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

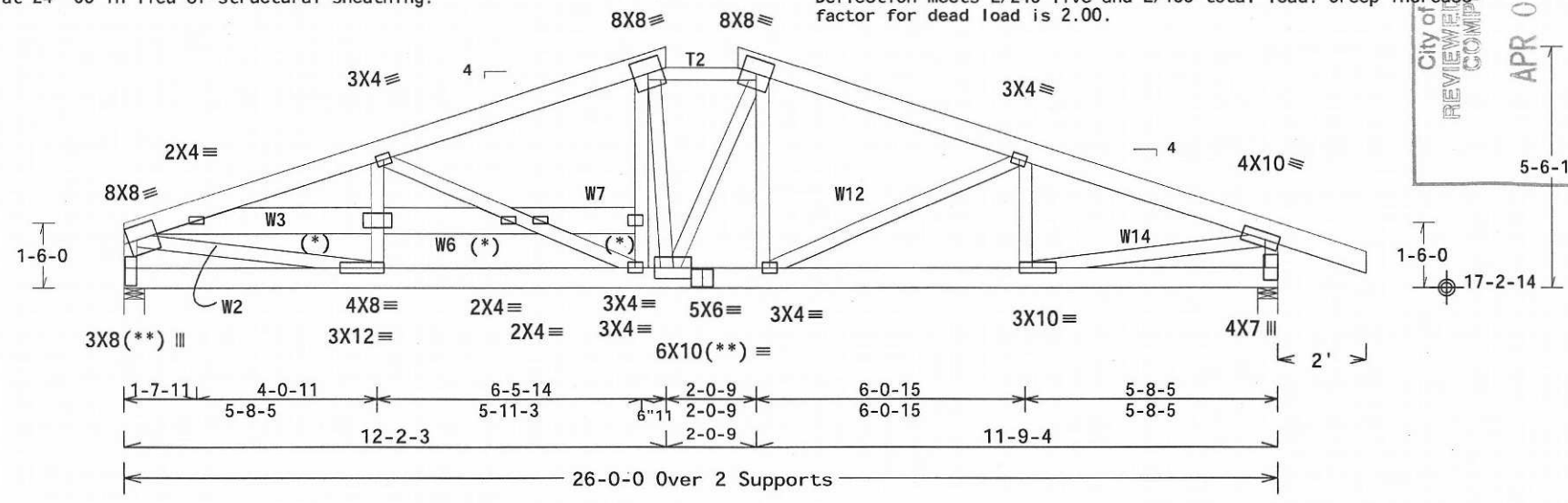
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 20.44 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads and reactions based on MWFRS with additional C&C member design.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave | FT/RT=8%(0%)/4(1) | 10.03.[illegible] | QTY:2 | OR/-/1/-/-/R/- | Scale =.275"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

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Sacramento, CA 95828

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REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16486
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325109
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	17338 REV
DUR.FAC.	1.15	FROM	MRR
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - TO7)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

(a) 1x4 #3 HEM-FIR or better continuous lateral bracing to be equally spaced. Attach with (2) 8d Box or Gun nails (0.113"x2.5",min.). Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

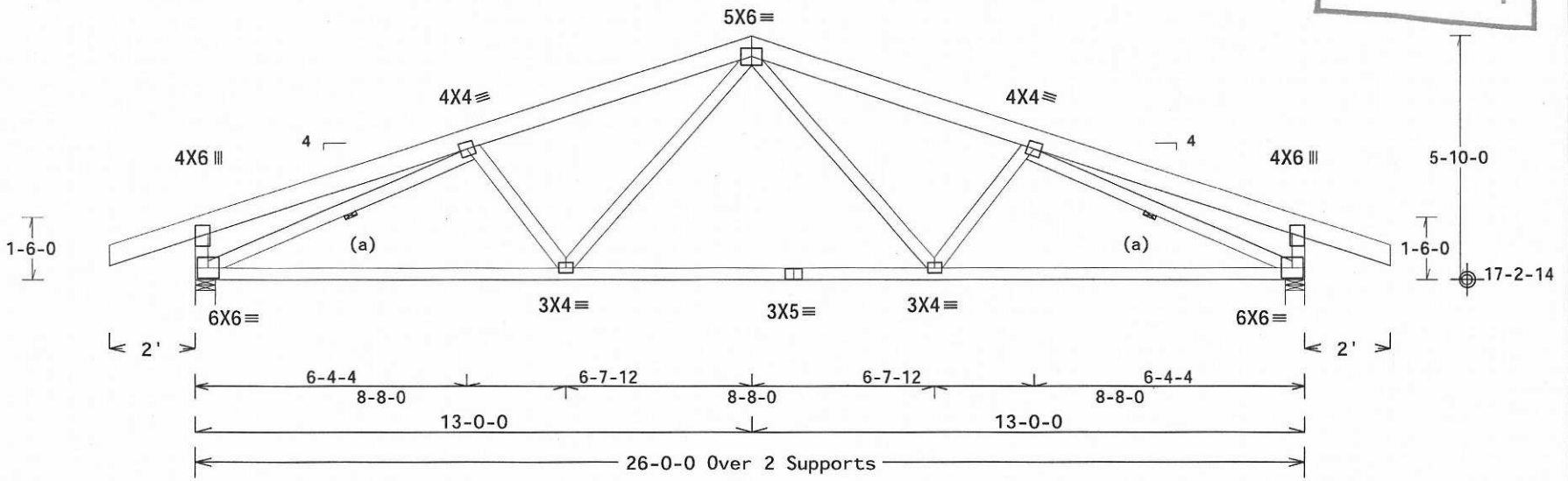
110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Calculated vertical deflection is 0.13" due to live load and 0.38" due to total load at X = 3-11-9.

Truss designed for unbalanced snow load based on Pg=25.00 psf, Ct=1.10, Ce=1.00, CAT II & Pf=19.25 psf.



Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04 0601.13 QTY:16 OR/-/1/-/-/R/- Scale =.275"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

REGISTERED PROFESSIONAL ENGINEER 14659 OREGON DEC. 7, 1989 CHRISTIAN W. CHAPPELL

EXP. 12-31-13

11/20/2012

TC LL	25.0 PSF	REF	R561-- 16487
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325056
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637465
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T08)

Top chord 1.5"x5.625" DF-L SS(g)
Bot chord 2x4 DF-L #1&Bet.(g)
Webs 2x4 DF-L Standard(g)

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

Truss designed for unbalanced snow load based on Pg=25.00 psf, Ct=1.10, Ce=1.00, CAT II & Pf=19.25 psf.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 3 PSF. Top chord must not be cut or notched.

110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

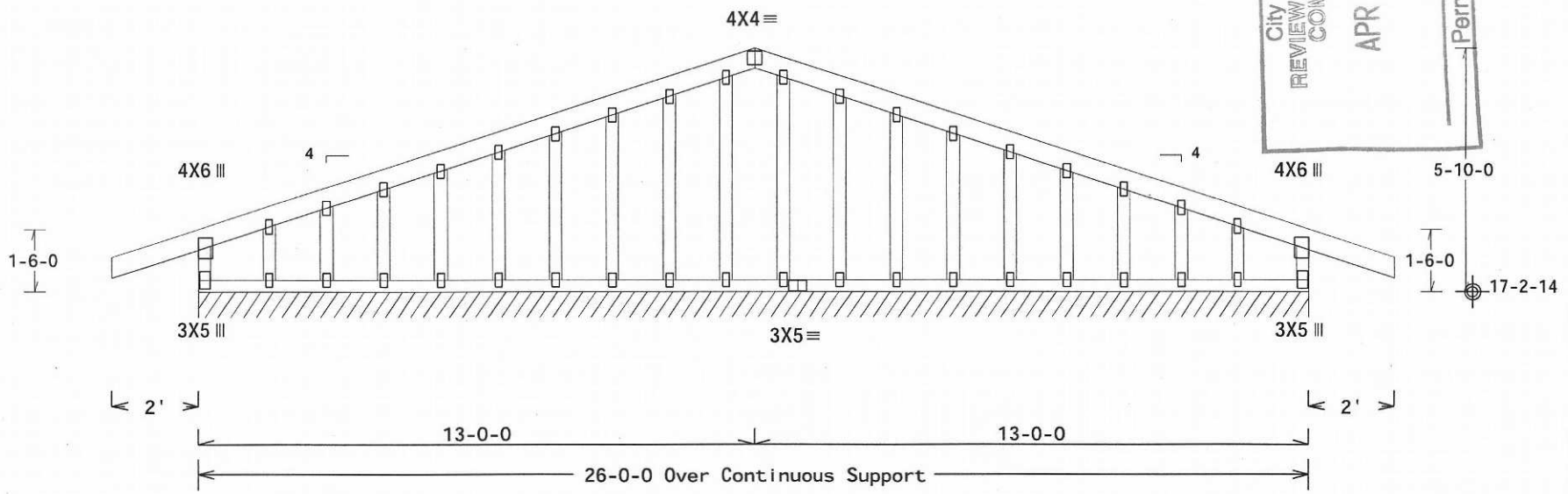
Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

See DWGS A11030050109 & GBLLETIN0109 for more requirements.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Fasten rated sheathing to one face of this frame.

City of Portland
REVIEWED FOR CODE COMPLIANCE
APR 04 2013
Permit Number



R=110 PLF U=18 PLF W=26-0-0
RL=3/-3 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: IRC2009/TPI-2007(STD)

PLT TYP. Wave FT/RT=8%(0%)/4(1) 10.03.04.06.01.18 OT:2 OR/-/1/-/-/R/- Scale =.275"/Ft.

Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA

ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

REGISTERED PROFESSIONAL ENGINEER
14659
OREGON
DEC. 7, 1989
CHRISTIAN W. CHAPPELL
EXP. 12-31-13
11/20/2012

TC LL	25.0 PSF	REF	R561-- 16488
TC DL	7.0 PSF	DATE	11/20/12
BC DL	10.0 PSF	DRW	CAUSR561 12325057
BC LL	0.0 PSF	CA-ENG	LVT/CWC
TOT.LD.	42.0 PSF	SEQN-	637469
DUR.FAC.	1.15	FROM	KTC
SPACING	24.0"	JREF-	1URC561_Z12