



City of Portland, Oregon - Bureau of Development Services

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



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 Port 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

DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

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

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.

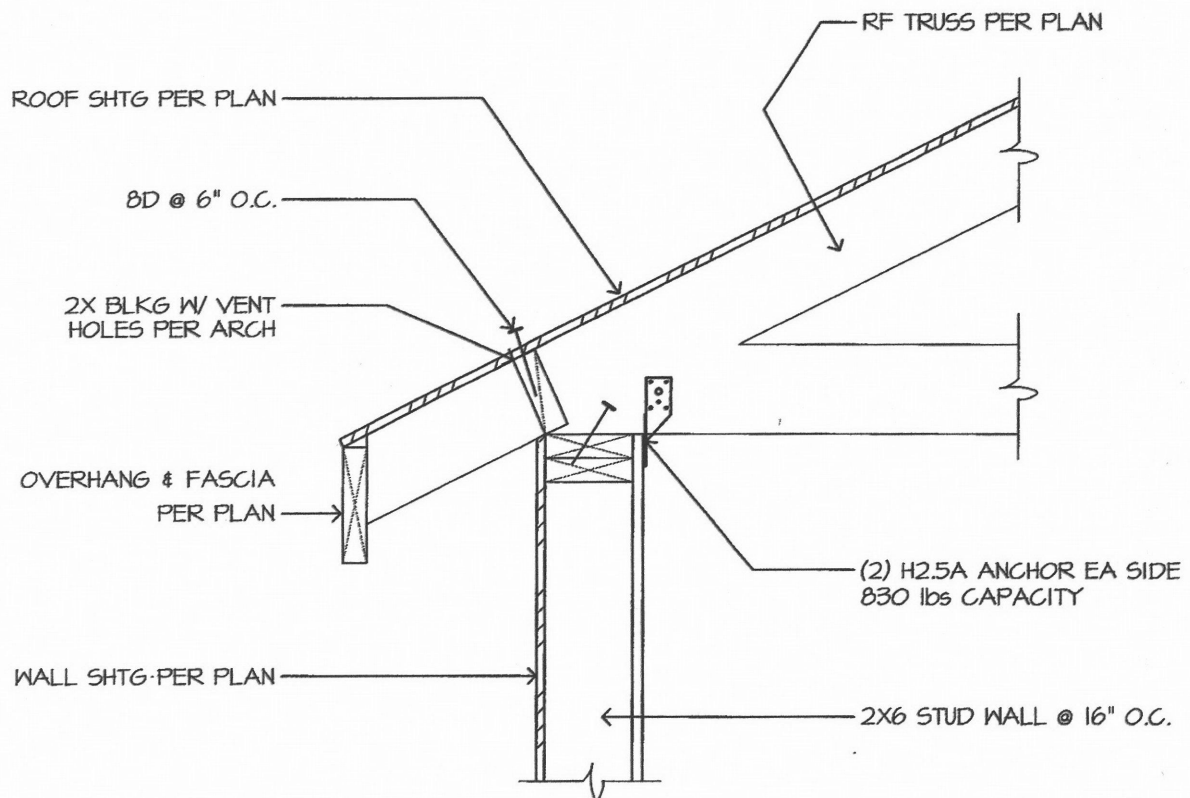
We have reviewed the foundation and calculations on this project and conclude that special inspections are not required for the concrete work, based on the building type and the strength of concrete required to meet our design.

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 CO



G1

ROOF TRUSS @ EXT WALL

RFT5 (2) H2.5A

SCALE: 1" = 1'-0"

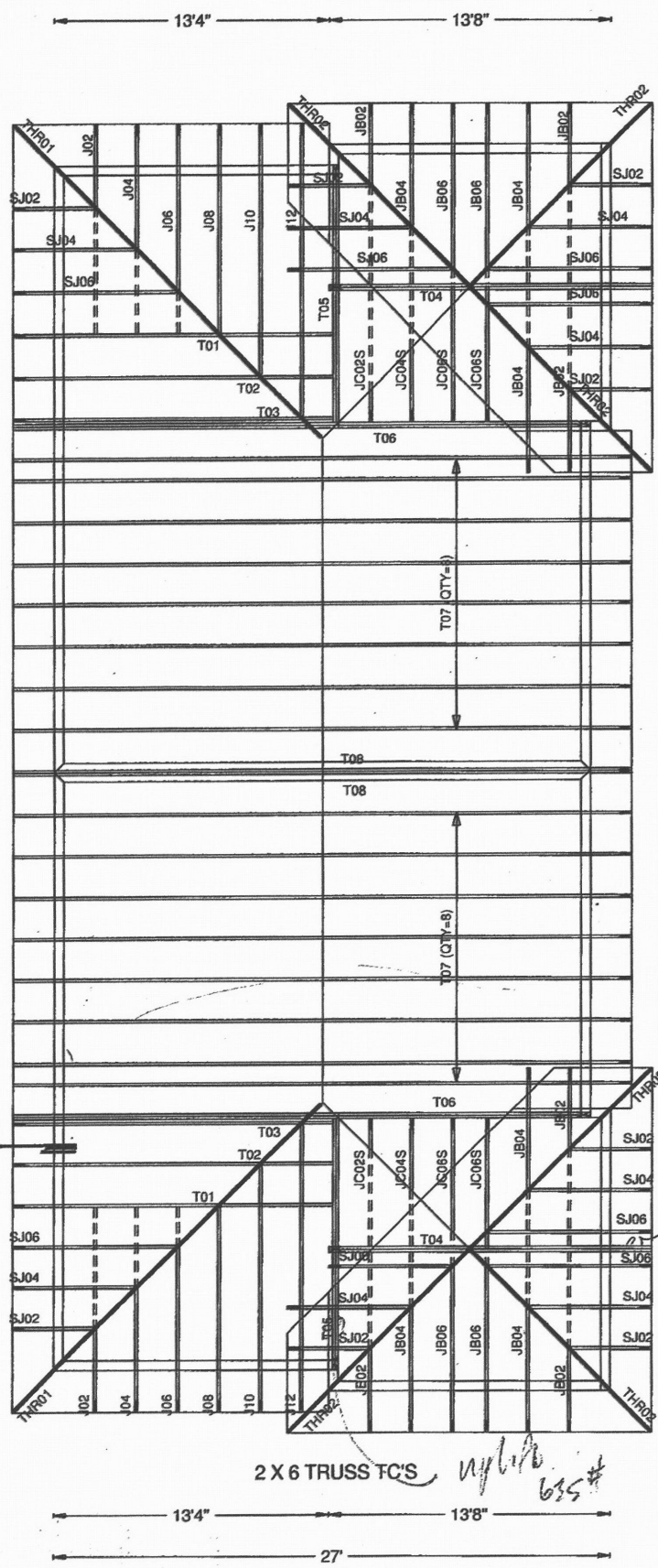
W/11/12
891
H6

61
TRP.

400#
W/11/12
H6

W/11/12
635#

PALMER
A-PLEX



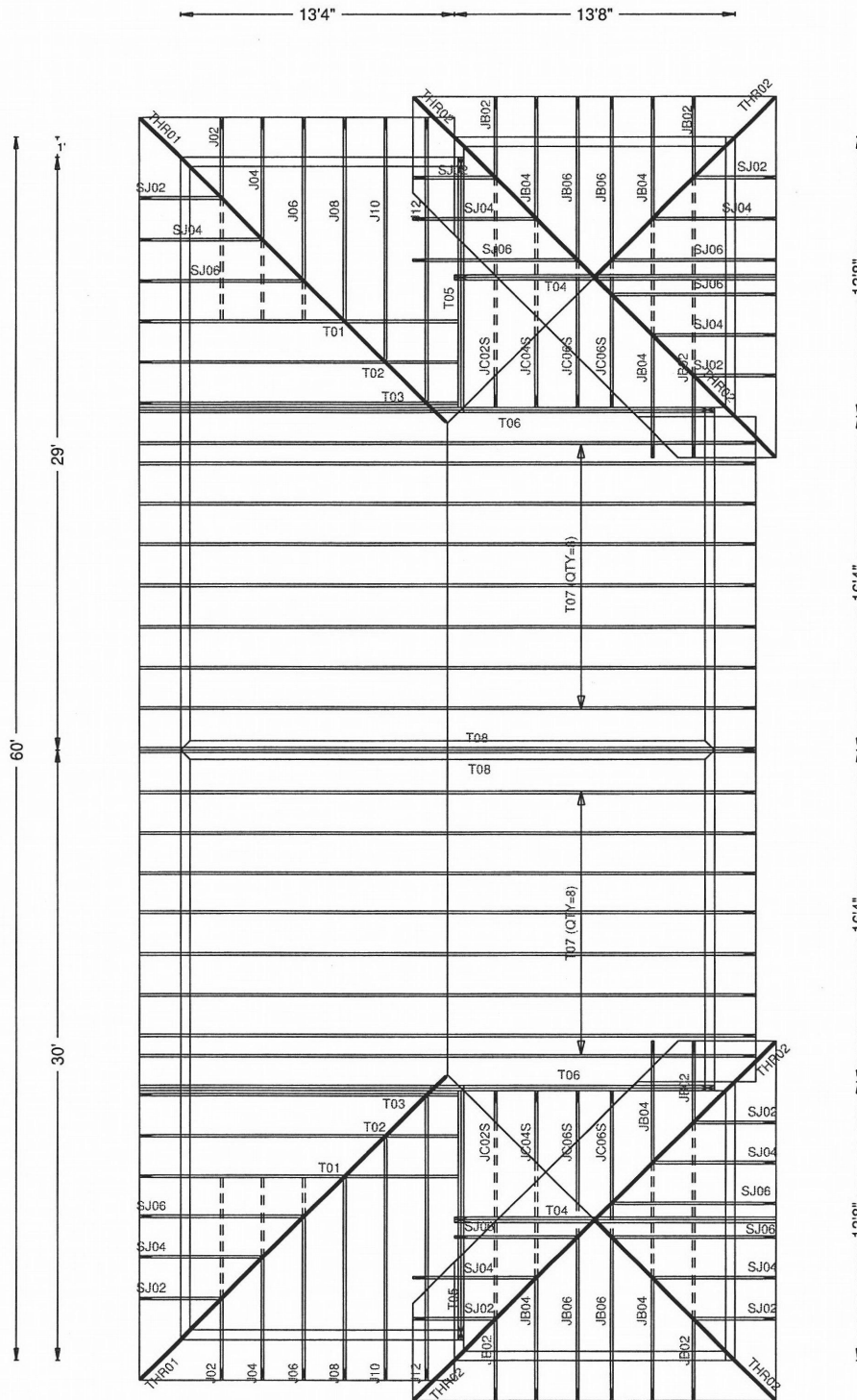
STAN LINK
42# COMP ROOF
4/12 PITCH 2-0 OH
1-6 TOTAL HEEL

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

Customer: CUSTOMER:
Owner: STAN LINK
Plan: Not Found
Salesman: Josh Gadenberg
Elevation: Not Found

JOB NO:
124309

PAGE NC
1 OF 1



2 X 6 TRUSS TC'S

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

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(360) 750-1470 (503) 285-2615

City of Portland
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COMPLIANCE

APR 04 2013

Permit Number

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

JOB NO:
124309

PAGE NO:
1 OF 1

12-163345 DISA CO

ITW Building Components Group, Inc.

8351 Rovana Circle Sacramento, CA 95828 (916) 387-0116
Page 1 of 1 Document ID: IURC561-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

\$ \$

| # | 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 |



EXP. 12/20/2012

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Permit Number

(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.

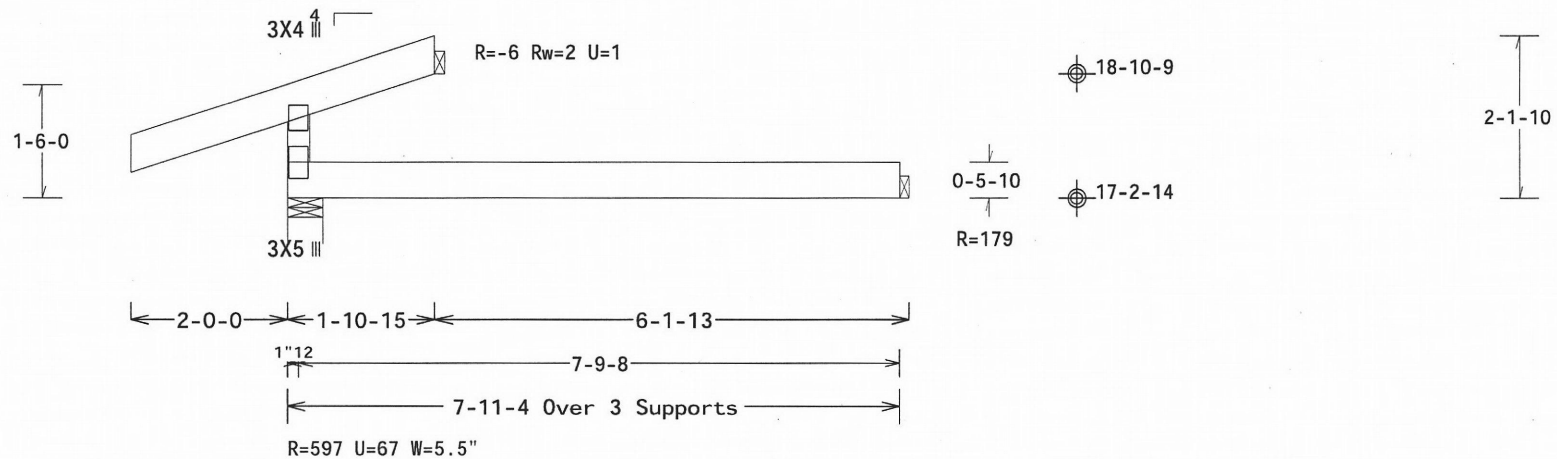
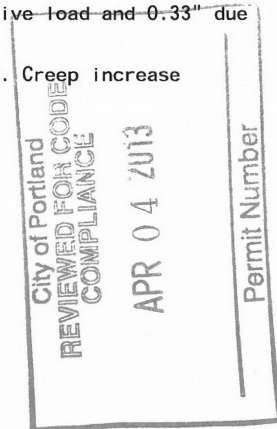
110 mph wind, 18.72 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

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.



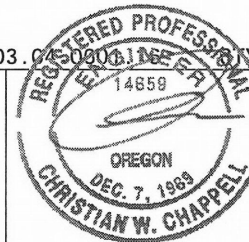
PLT TYP. Wave

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



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

10.03.04



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

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

Scale = .4375"/Ft.

| | | |
|----------|----------|-----------------------|
| 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 |

****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.

(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.

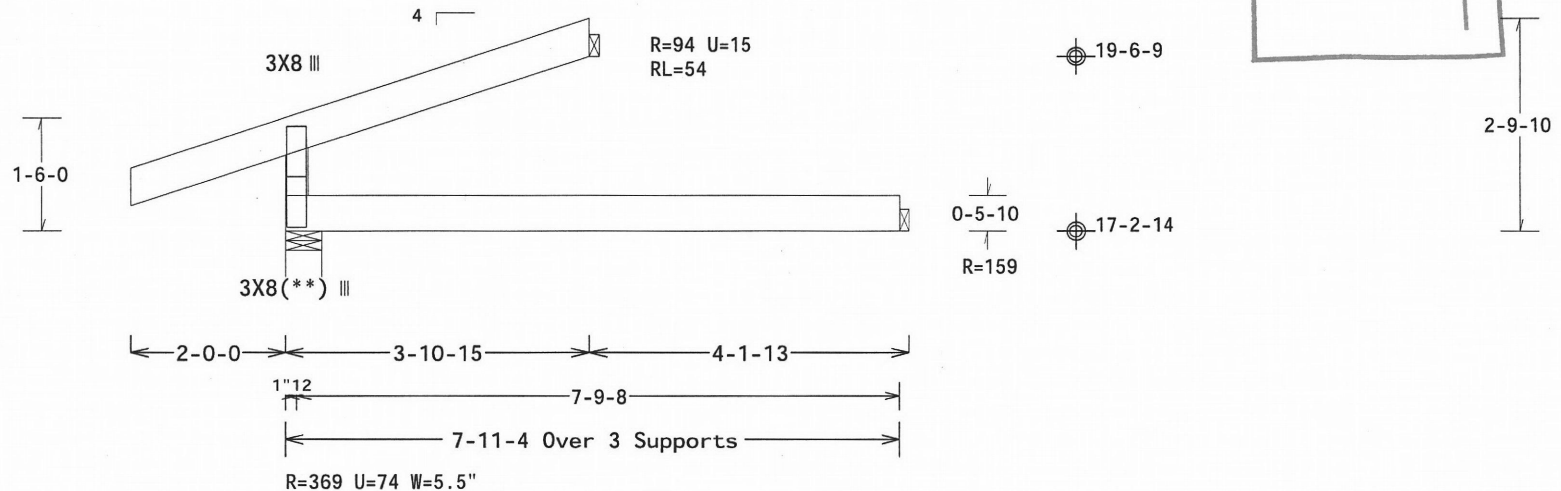
Unbalanced snow loads have not been considered.

(**)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.

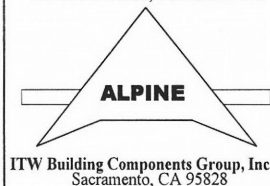
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.



City of Portland
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 APR 04 2013
 Permit Number

PLT TYP. Wave

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



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

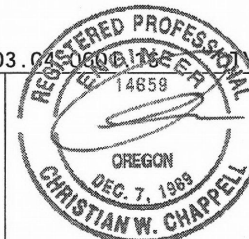
10.03.02 REGISTERED PROFESSIONAL

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

Scale = .4375"/Ft.

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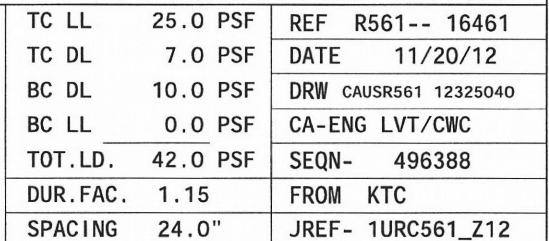


EXP. 12-31-13

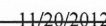
11/20/2012

| | | |
|----------|----------|-----------------------|
| 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 |

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APR 04 2013
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(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.

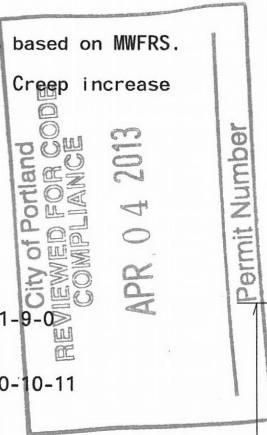
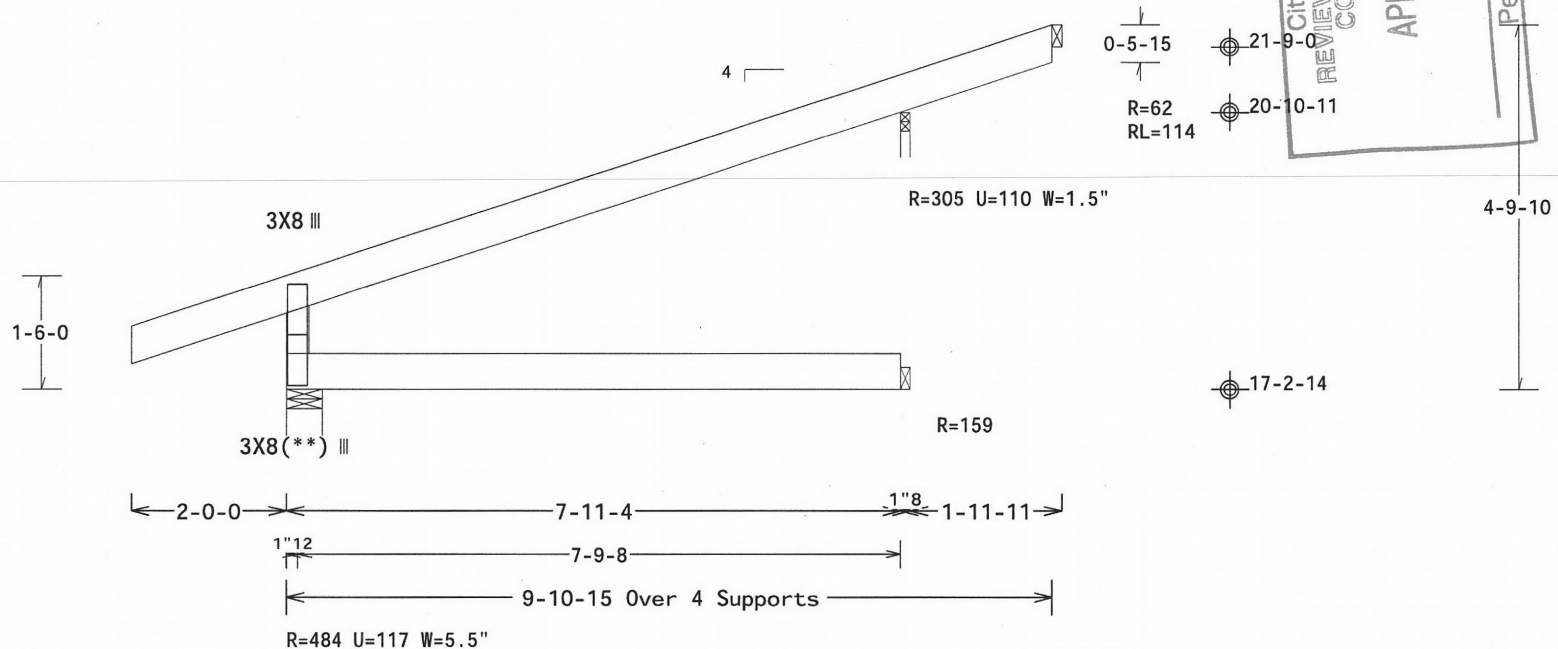
(**)1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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.

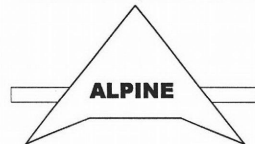
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Shim all supports to solid bearing.



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

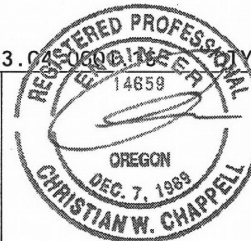
10.03.04 00001668:2

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

Scale = .4375"/Ft.

****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.

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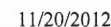


EXP. 12-31-13

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 |

5-5-10



* **IMPORTANT** - FURNISH 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 TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A B/X OF TRUSSES. ALL TRUSS DECKS SHALL BE MADE OF 20/18/16GA (W/H,SS/K) ASTM A563 GRADE 40/60 (W/ K/H,SS) GALV. STEEL. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H,SS/K) ASTM A563 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 TP1-2002 SEC. 3. A SEAL ON THE BUILDING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. THE DESIGN IS SHOWN. THE DESIGN FOR THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP1 1 SEC. 2.

(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.

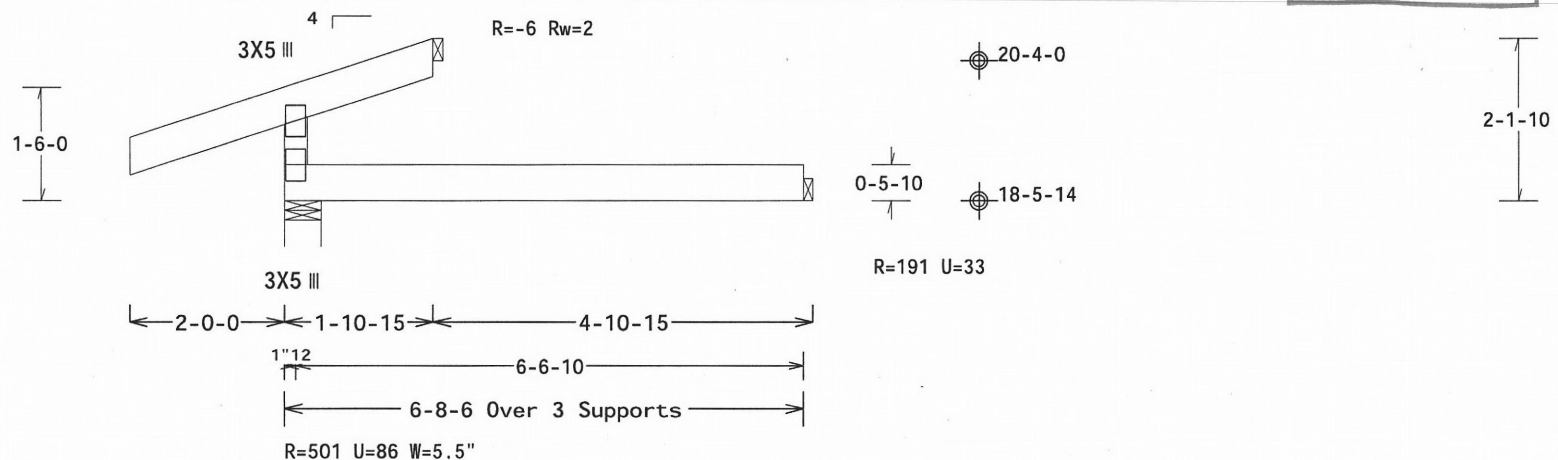
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

Unbalanced snow loads have not been considered.

City of Portland
 REVIEWED FOR CODE
 COMPLIANCE

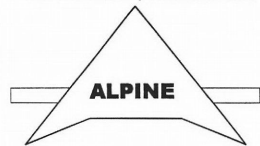
APR 04 2013

Permit Number



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

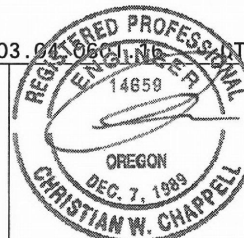
10.03.04 10.03.04

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

Scale = .4375"/Ft.

****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 TPI-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.



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 |

(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.

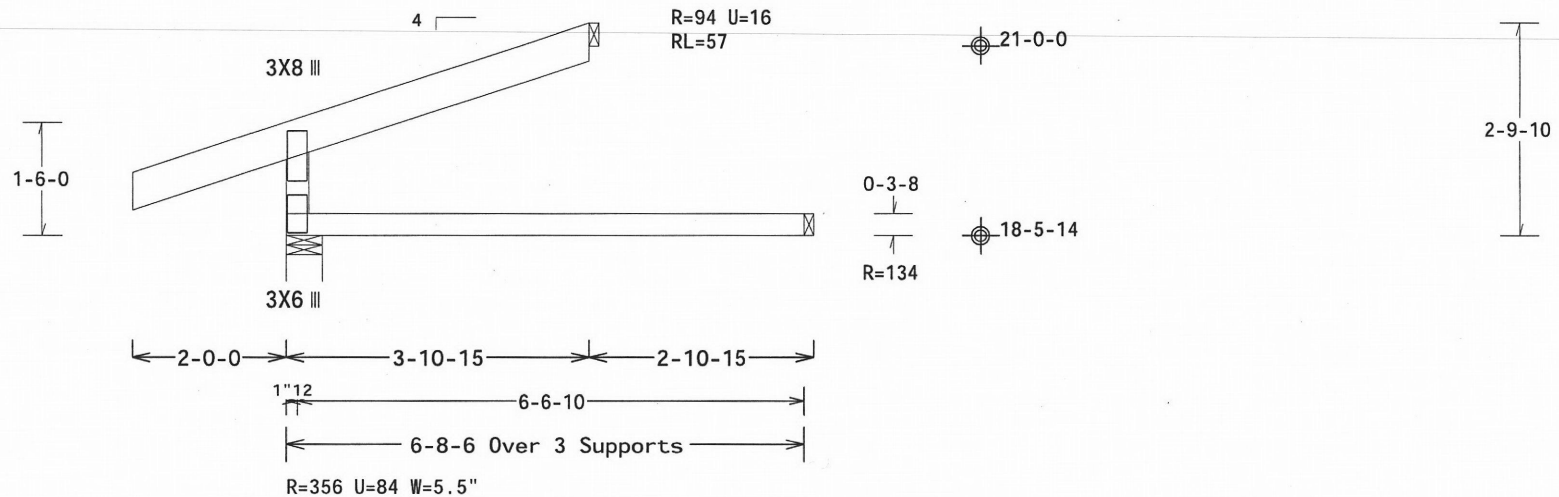
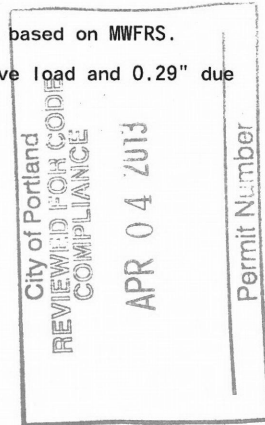
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

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.

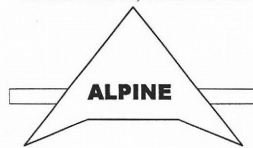
Calculated vertical deflection is 0.10" due to live load and 0.29" due to total load at X = 3-5-11.

Unbalanced snow loads have not been considered.



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

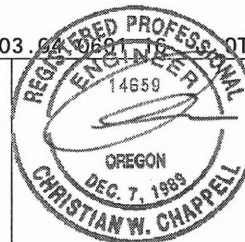
10.03.04.0681 QTY:6

0R/-/1/-/-/R/-

Scale = .4375"/Ft.

****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 TPI-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.



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 |

(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.

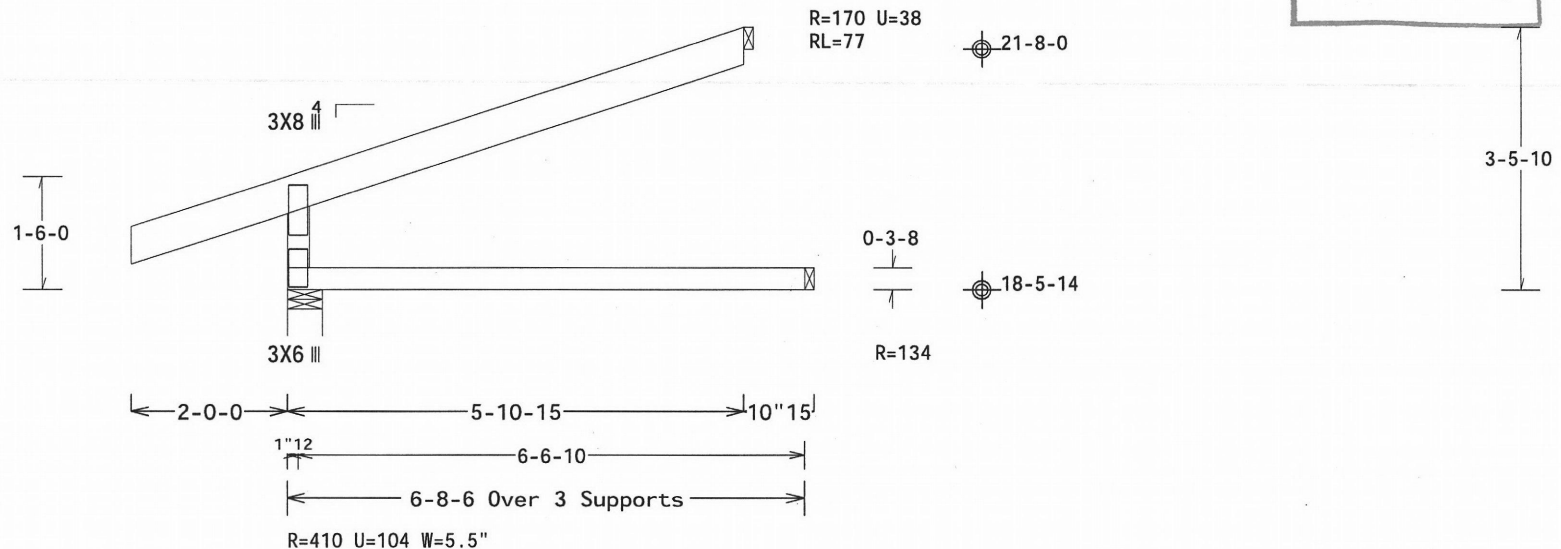
110 mph wind, 20.64 ft mean hgt, ASCE 7-05, CLOSED bldg, Located
 anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0
 psf.

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



PLT TYP. Wave

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



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

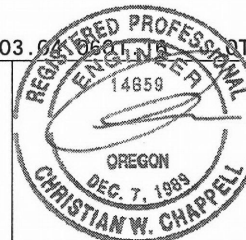
10.03.04 0601.16 QTY: 4

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

Scale = .4375"/Ft.

****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, W/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 TPI-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.



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 |

| | | |
|----------|----------|-----------------------|
| 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 |

(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.

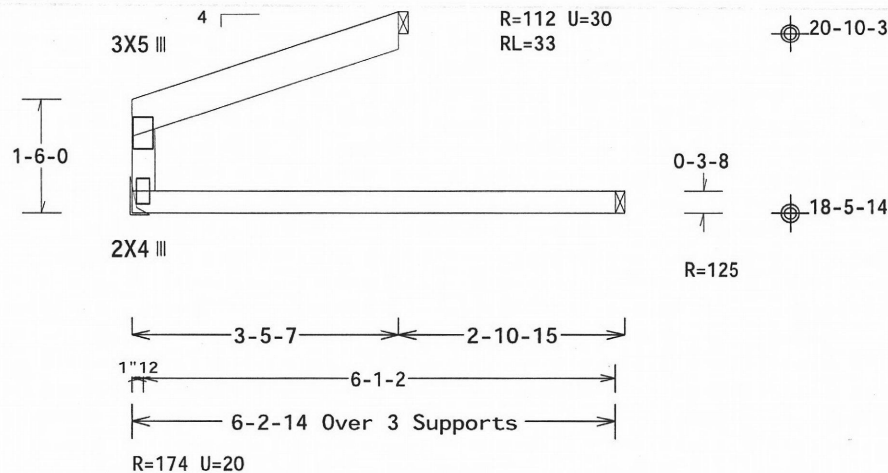
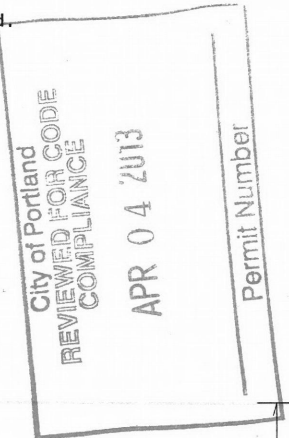
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

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.

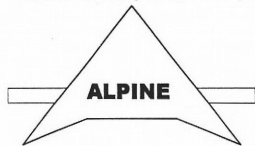
Calculated vertical deflection is 0.07" due to live load and 0.22" due to total load at X = 3-2-15.

Unbalanced snow loads have not been considered.



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

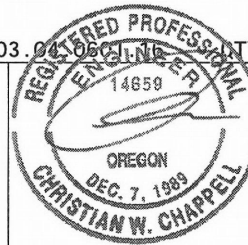
10.03.04 DEC 11 2012

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

Scale = .4375"/Ft.

****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-2. 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.



EXP. 12-31-13

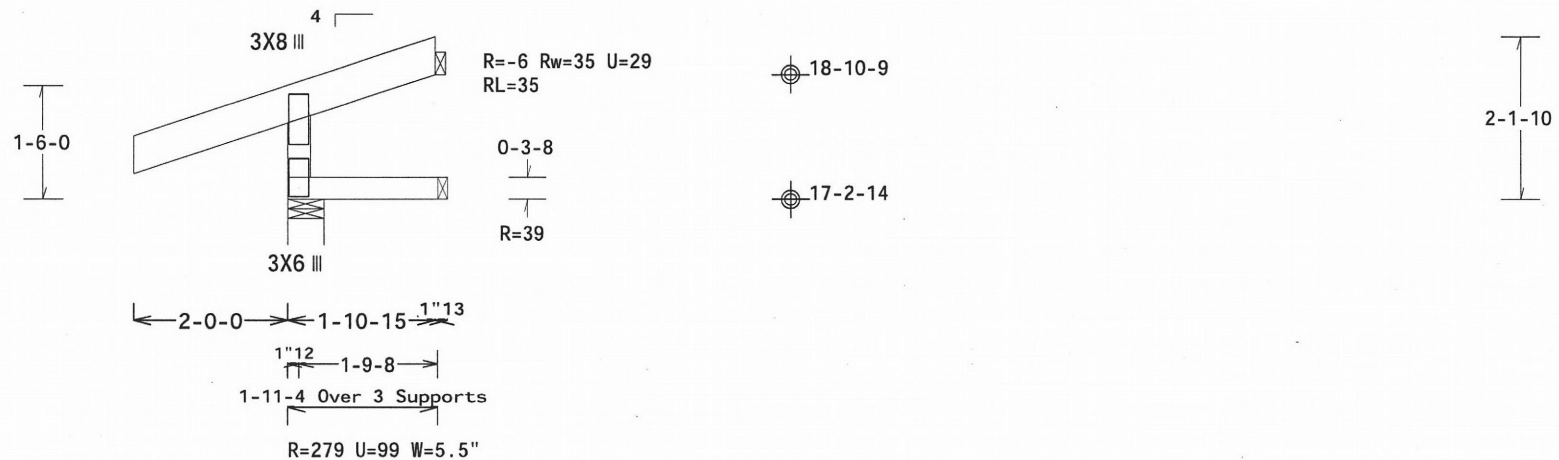
11/20/2012

| | | | |
|----------|----------|--------|-------------------|
| 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 |

| | |
|--------|-------------------|
| REF | R561-- 16470 |
| DATE | 11/20/12 |
| DRW | CAUSR561 12325049 |
| CA-ENG | LVT/CWC |
| SEQN- | 637439 |
| FROM | KTC |
| JREF- | 1URC561 Z12 |

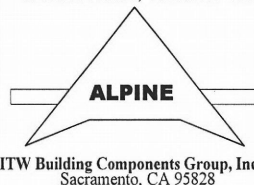
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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



Scale = .4375"/Ft.

| | | |
|----------|----------|-----------------------|
| 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 |



* **IMPORTANT** ** FURNISH 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. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY A&P&A) AND TPI. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE STEEL, ALPINE STEEL, ALPINE 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 TPI-2002 SEC.3. A SEAL ON THE BUILDING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN. SHALL, THE DESIGNER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(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.

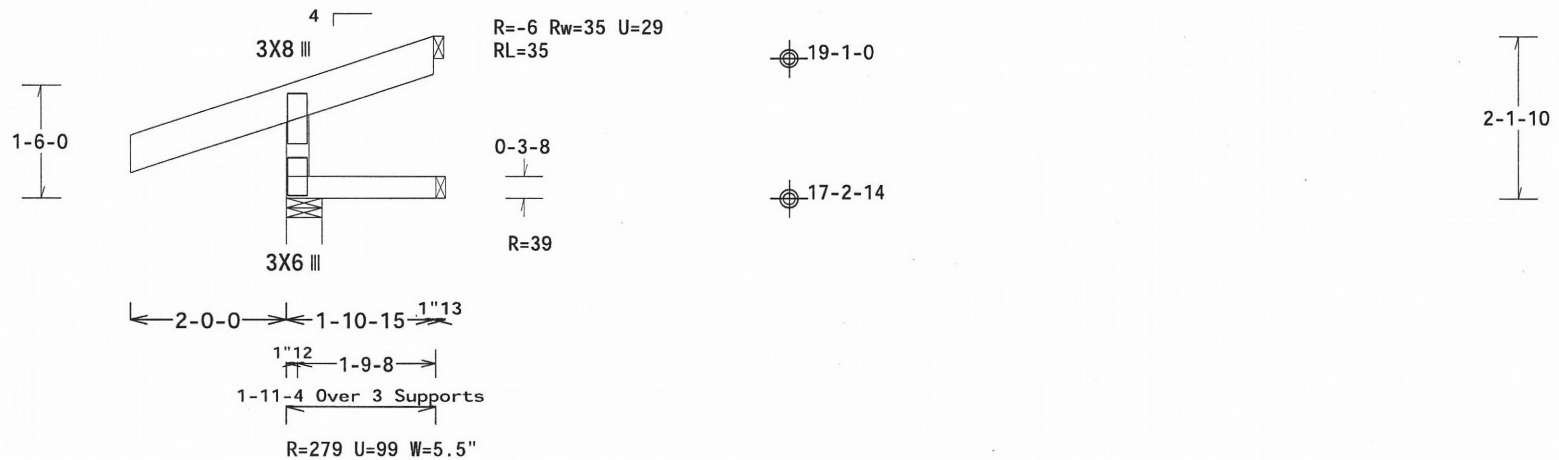
Unbalanced snow loads have not been considered.

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



PLT TYP. Wave

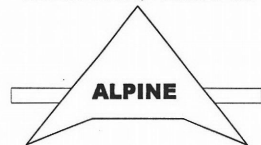
Design Crit: IRC2009/TPI-2007(STD)
 FT/RT=8%(0%)/4(1)

10.03.04 0603 106

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

Scale = .4375"/Ft.

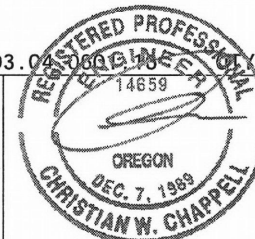
Trus-Way, Inc 360-750-1470
 3901 NE 68th St., Vancouver WA



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.

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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 |

(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.

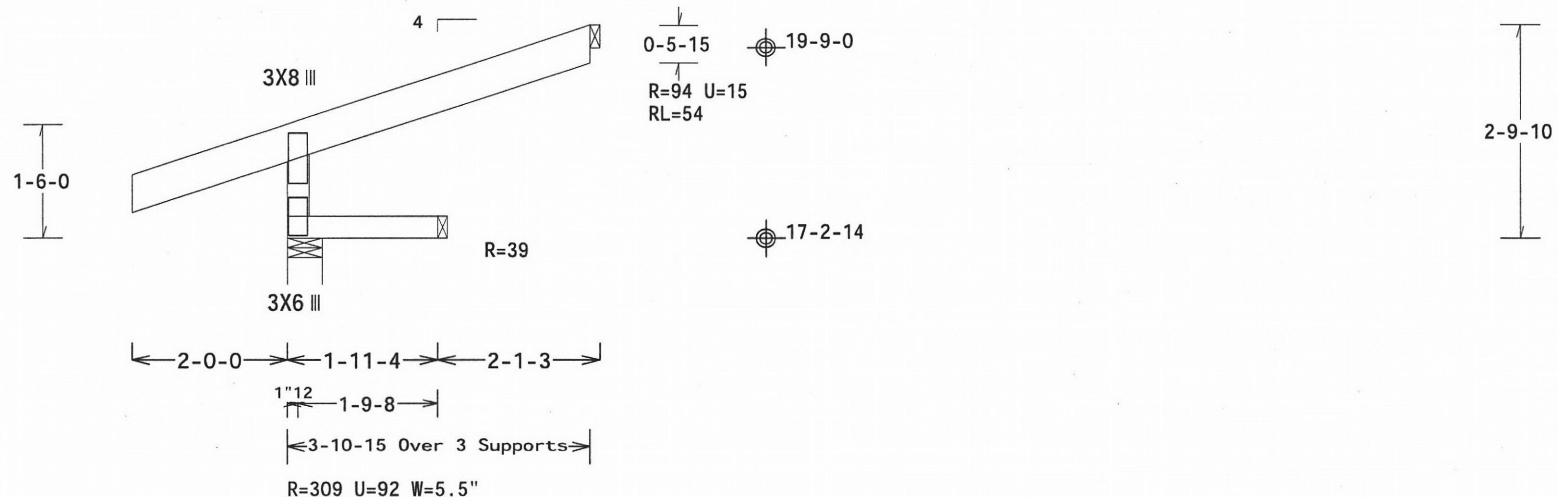
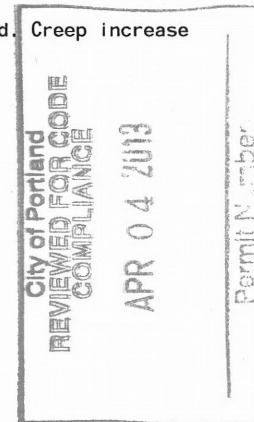
Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

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.

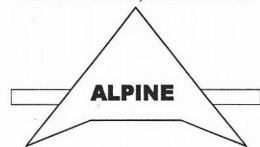
Wind loads based on both MWFRS and C&C, Reactions based on MWFRS.

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



PLT TYP. Wave

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



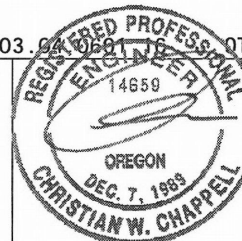
ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

10.03.94 0681 QTY:2 OR/-/1/-/-/R/- Scale = .4375"/Ft.

****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-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI-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.



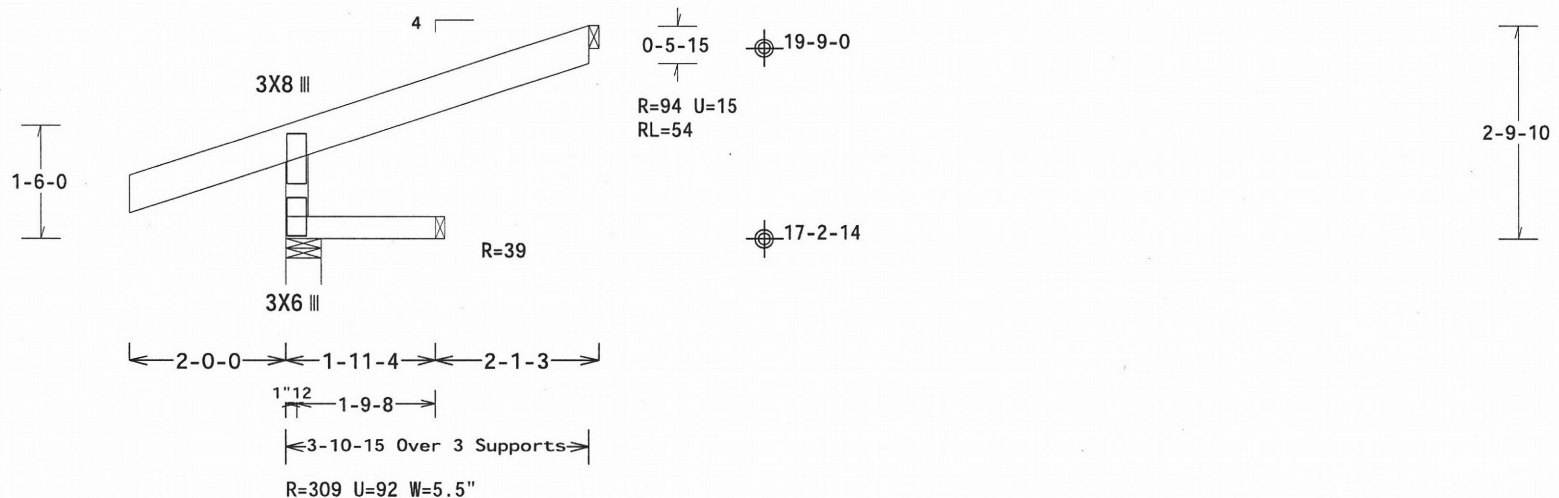
EXP. 12-31-13

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.

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



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

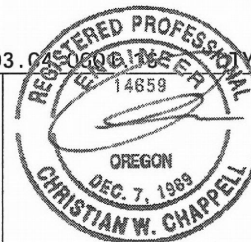
10.03.04-0606.116-017:6

Scale = .4375"/Ft.

*** WARNING *** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (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 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 TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.**

*** THE FOLLOWING INFORMATION IS FOR THE DESIGNER'S INFORMATION ONLY. THE DESIGNER SHALL PROVIDE THE ALPINE CONNECTOR PLATES ARE MADE OF 2018/165A (W/5/SS/K) ASTM A563 GRADE 40/60 (W/ K/H,55) 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 TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY, SOLELY FOR THE TRUSS COMPONENT DESIGNER AND NOT THE BUILDING DESIGNER. THE BUILDING DESIGNER FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.**



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 |

(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.

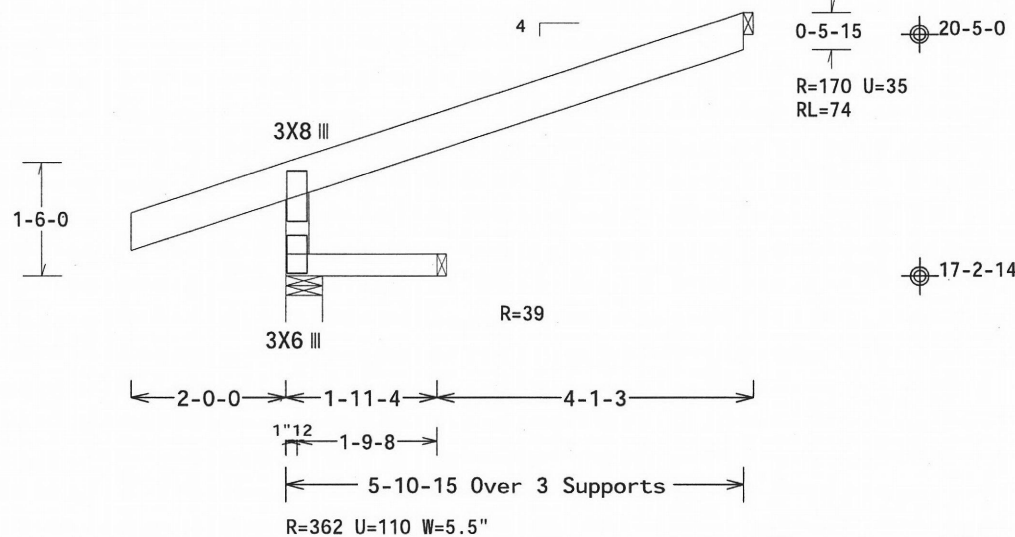
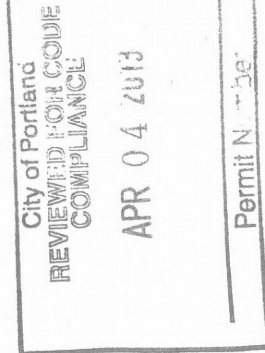
Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IRC-09 section 301.5.

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.



PLT TYP. Wave

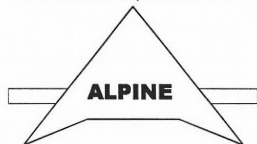
Design Crit: IRC2009/TPI-2007(STD)
 FT/RT=8%(0%)/4(1)

10.03.04.0601 QTY:2

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

Scale = .4375"/Ft.

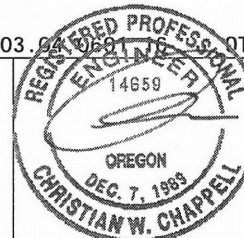
Trus-Way, Inc 360-750-1470
 3901 NE 68th St., Vancouver WA



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 2018/16GA (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 TPI-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.



EXP. 12-31-13

11/20/2012

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| 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 |

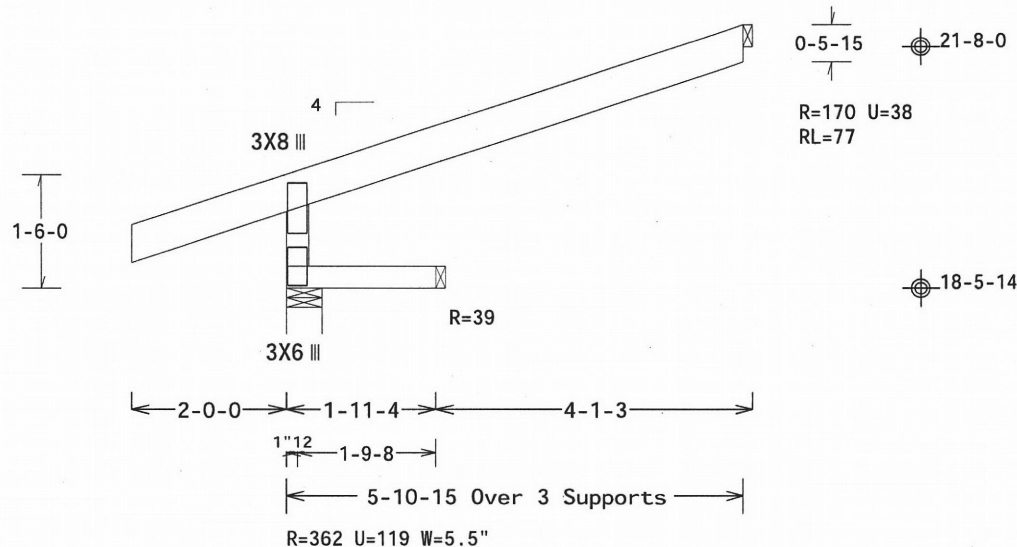
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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.

Unbalanced snow loads have not been considered.



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

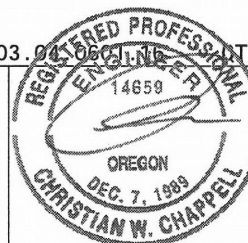
10.03.04-060511b

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

Scale = .4375"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFERENCE TO GC'S (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 100 MISS LAUREL INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WITCA (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 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 A BRACING OF TRUSSES. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE GALV. STEEL ALUM. 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 TPI-2002 SEC.3. A SEAL ON THE BUILDING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGN. THE DESIGN OF THE BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A3 SEC.3.3. THE DESIGN FOR THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX A3 SEC.3.3.



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 |



ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THRO1)

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

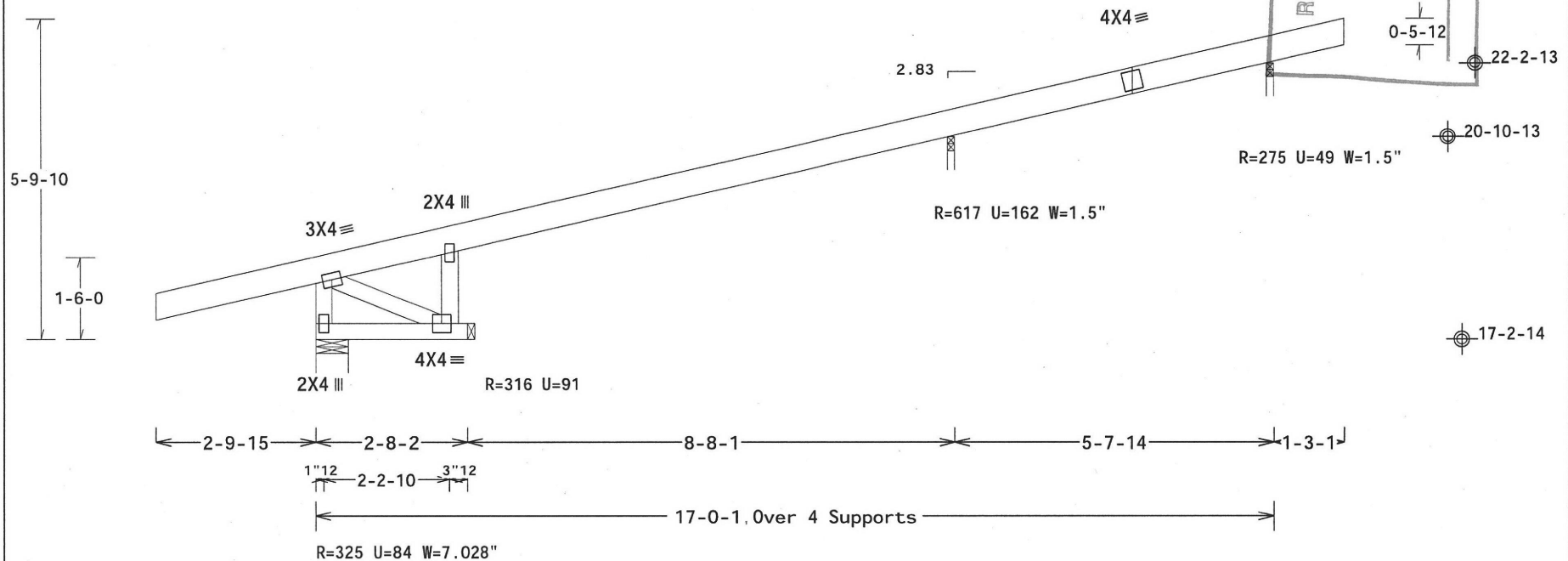
Wind loads and reactions based on MWFRS.

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.

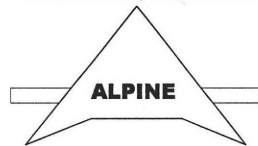
Deflection meets L/240 live and L/180 total load. Creep increase
 factor for dead load is 2.00.

Shim all supports to solid bearing.



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

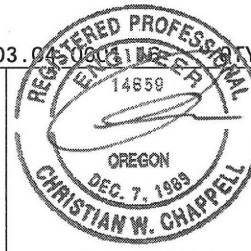
10.03.04 08:11:06

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

Scale = .375"/Ft.

****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.

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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 |

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THRO2)

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.

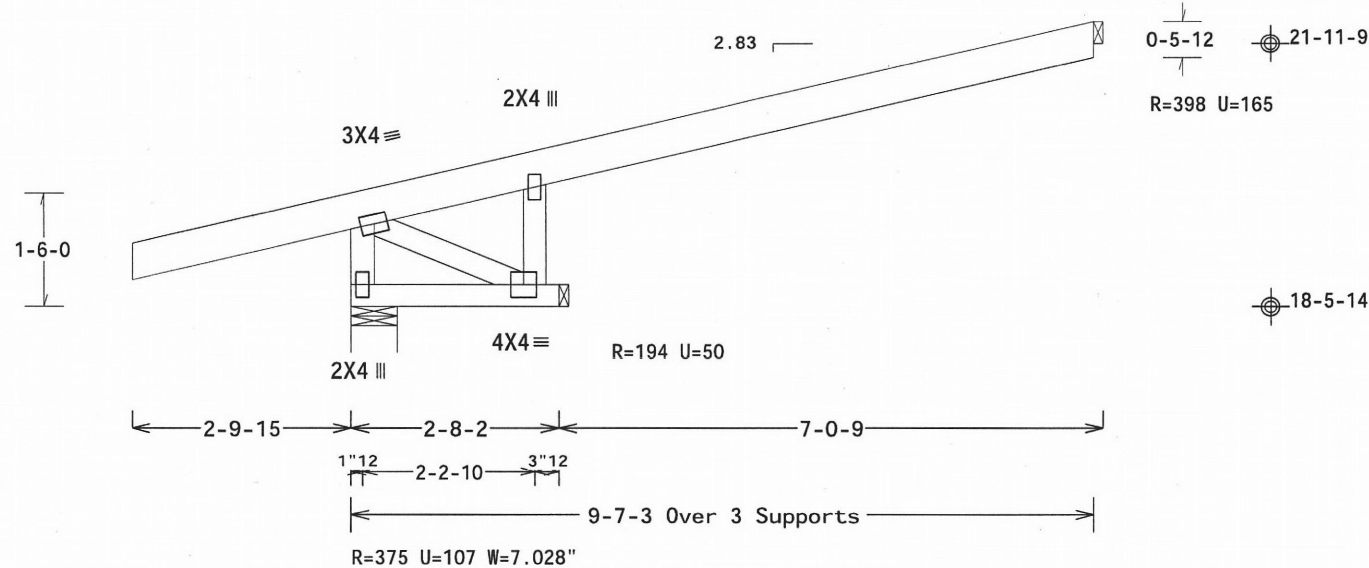
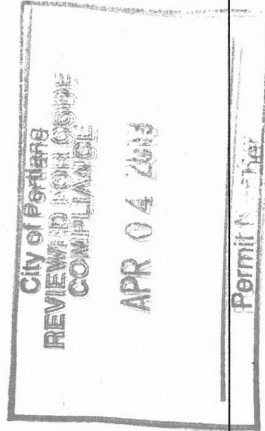
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

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.



PLT TYP. Wave

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

10.03.04.06.07.08.09.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.1046.1047.1048.1049.1050.1051.1052.1053.1054.1055.1056.1057.1058.1059.1060.1061.1062.1063.1064.1065.1066.1067.1068.1069.1070.1071.1072.1073.1074.1075.1076.1077.1078.1079.1080.1081.1082.1083.1084.1085.1086.1087.1088.1089.1090.1091.1092.1093.1094.1095.1096.1097.1098.1099.1100.1101.1102.1103.1104.1105.1106.1107.1108.1109.1110.1111.1112.1113.1114.1115.1116.1117.1118.1119.1120.1121.1122.1123.1124.1125.1126.1127.1128.1129.1130.1131.1132.1133.1134.1135.1136.1137.1138.1139.1140.1141.1142.1143.1144.1145.1146.1147.1148.1149.1150.1151.1152.1153.1154.1155.1156.1157.1158.1159.1160.1161.1162.1163.1164.1165.1166.1167.1168.1169.1170.1171.1172.1173.1174.1175.1176.1177.1178.1179.1180.1181.1182.1183.1184.1185.1186.1187.1188.1189.1190.1191.1192.1193.1194.1195.1196.1197.1198.1199.1200.1201.1202.1203.1204.1205.1206.1207.1208.1209.1210.1211.1212.1213.1214.1215.1216.1217.1218.1219.1220.1221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(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THRO2)

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.

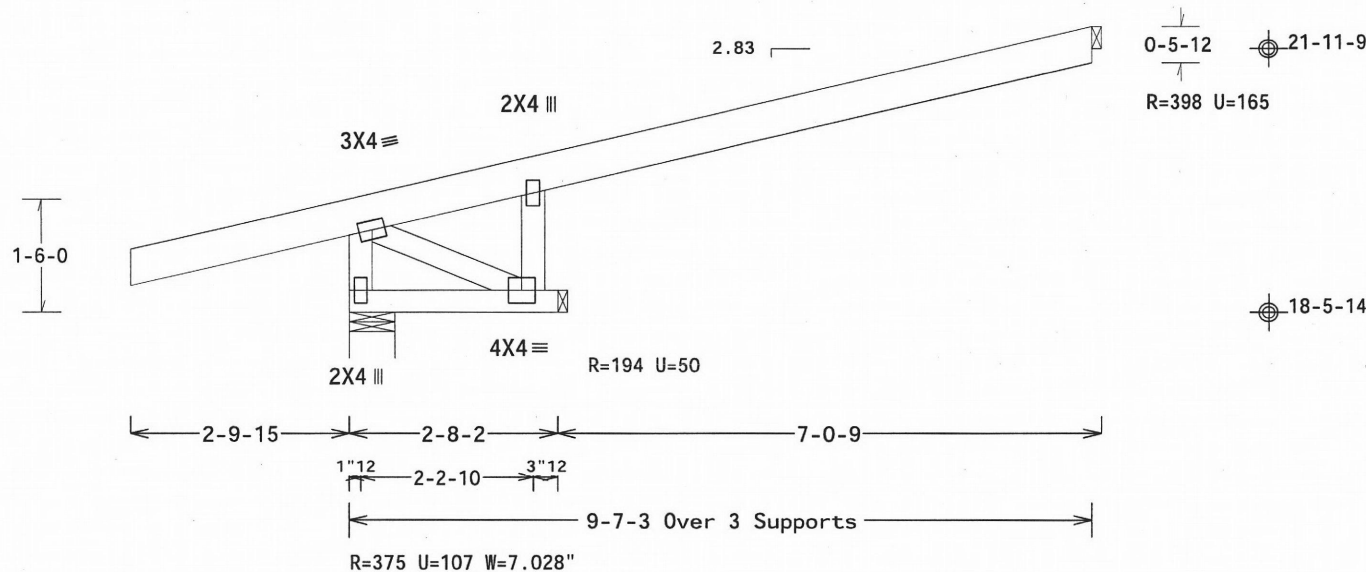
Hipjack supports 6-9-8 setback jacks with no webs.

Shim all supports to solid bearing.

City of Portland
 REVIEWED FOR CODE
 COMPLIANCE

APR 04 2013

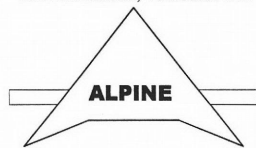
Permit Number



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

PLT TYP. Wave

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

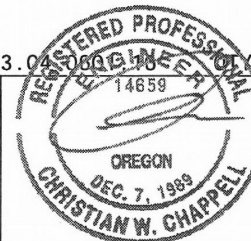


ITW Building Components Group, Inc.
 Sacramento, CA 95828

****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. 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.

10.03.04 060318



EXP. 12-31-13

11/20/2012

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

Scale = .4375"/Ft.

| | | |
|-------------------|----------|-----------------------|
| 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 |

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - THRO2)

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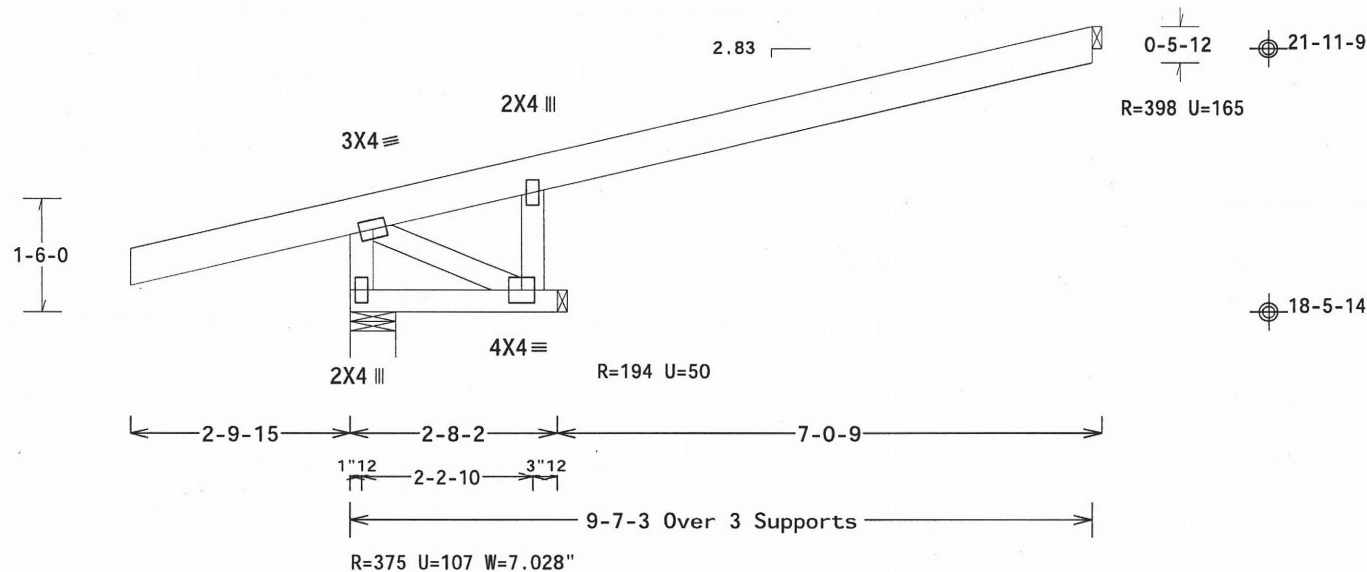
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 REVIEWED FOR CODE
 COMPLIANCE

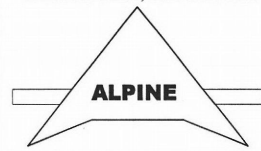
APR 04 2013

Permit Number



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

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

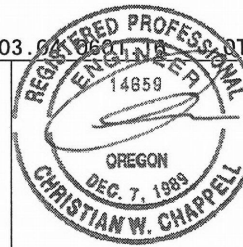
10.03.04 DEC 7, 1989 QTY: 2

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

Scale = .4375"/Ft.

****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 TPI-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.



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.

Bot chord 2x4 DF-L #1&Bet.

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.

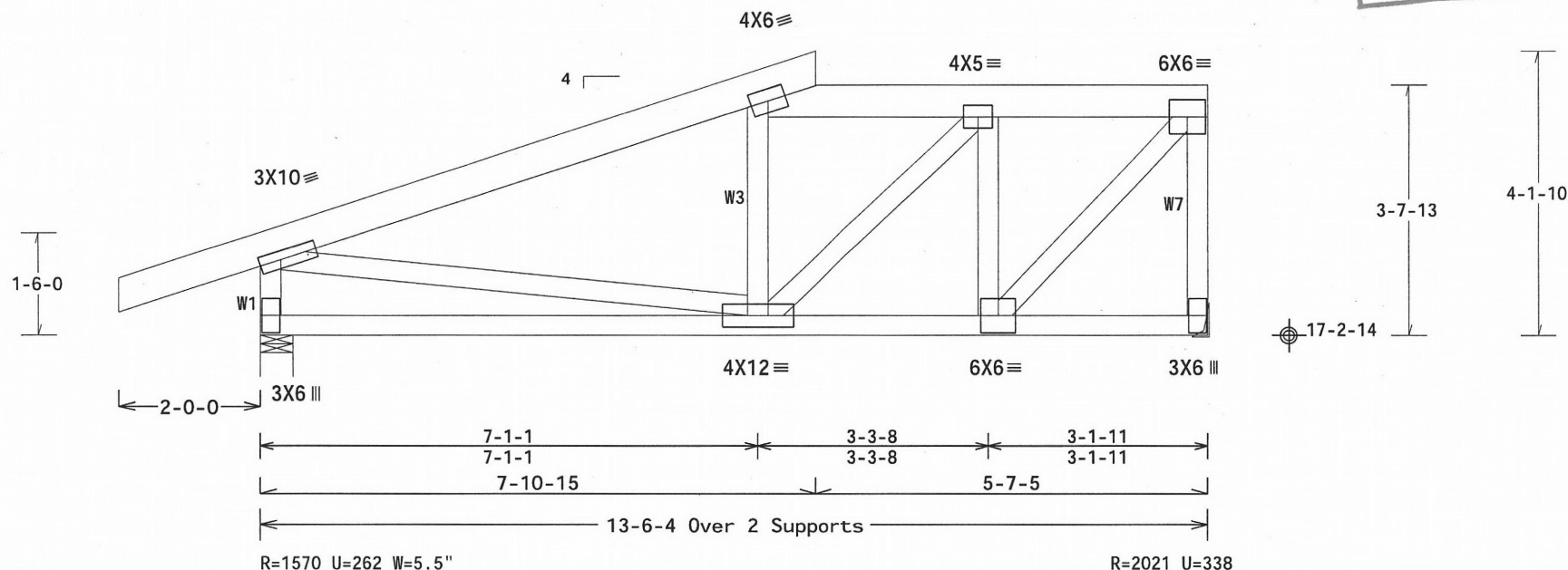
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

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

| | | | | | | |
|-----|--------|----|-------|------|----|------|
| BC- | 179.21 | 1b | Conc. | Load | at | 2.00 |
|-----|--------|----|-------|------|----|------|

12.00

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



Design Crit: IRC2009/TPI-2007(STD)

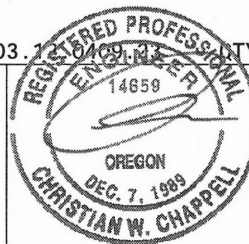
FT/RT=8%(0%)/4(1)

10.03.12 0409.33 DTY:2 0R/-/1/-/-/R/-

Scale = .4375" / Ft.

* **WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (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. ALPINE
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AREA) AND TPI. STEEL PLATE
CONNECTIONS ARE MADE AS REQUIRED BY NDS AND TPI. ALL CONNECTIONS SHALL BE MADE USING GALV. STEEL PLATE
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 TPI-2002 SEC.3. A SEAL ON THE
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN. THE SEAL DOES NOT IMPLY ACCEPTANCE OF RESPONSIBILITY FOR THE DESIGN OF OTHER PORTION OF THE
BUILDING DESIGN. [SEAL PER ANNOTATE] SEE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF



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 |

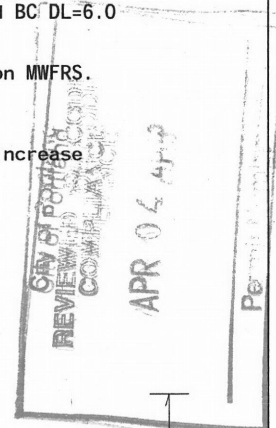
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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.

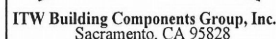
Right end vertical not exposed to wind pressure.

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




Scale = .4375" / Ft.

| | | |
|----------|----------|-----------------------|
| 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 |



| | | | | |
|----------|----------|--------|-------------------|-------|
| 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 | |



ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828

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

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

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.

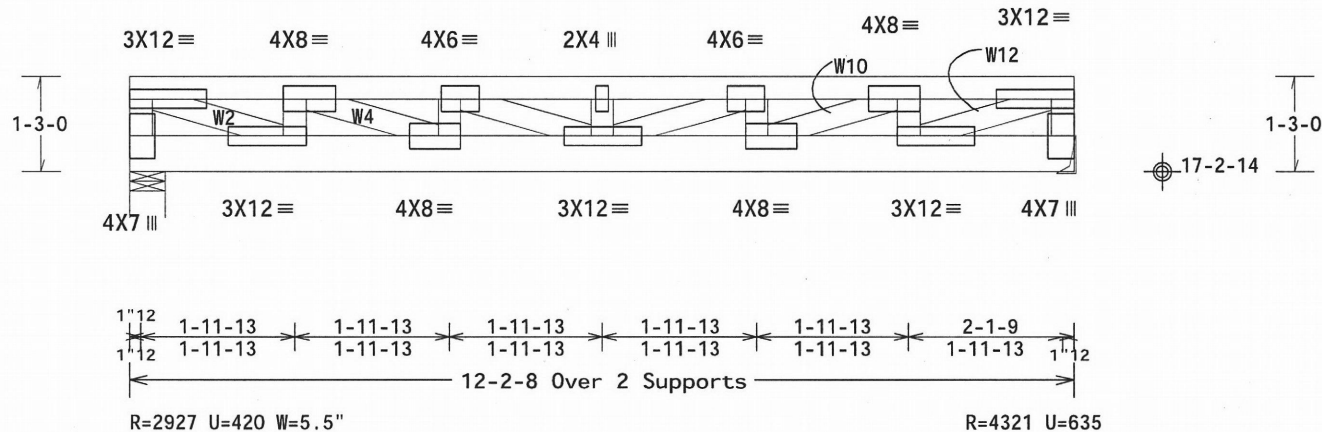
110 mph wind, 18.49 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

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.

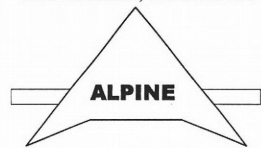
Unbalanced snow loads have not been considered.

Truss must be installed as shown with top chord up.



PLT TYP. Wave

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



ITW Building Components Group, Inc.
Sacramento, CA 95828

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

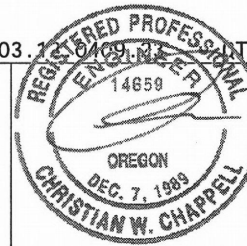
10.03.10 0409-03

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

Scale = .4375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (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/1/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 TPI-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.



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 |

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

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

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.

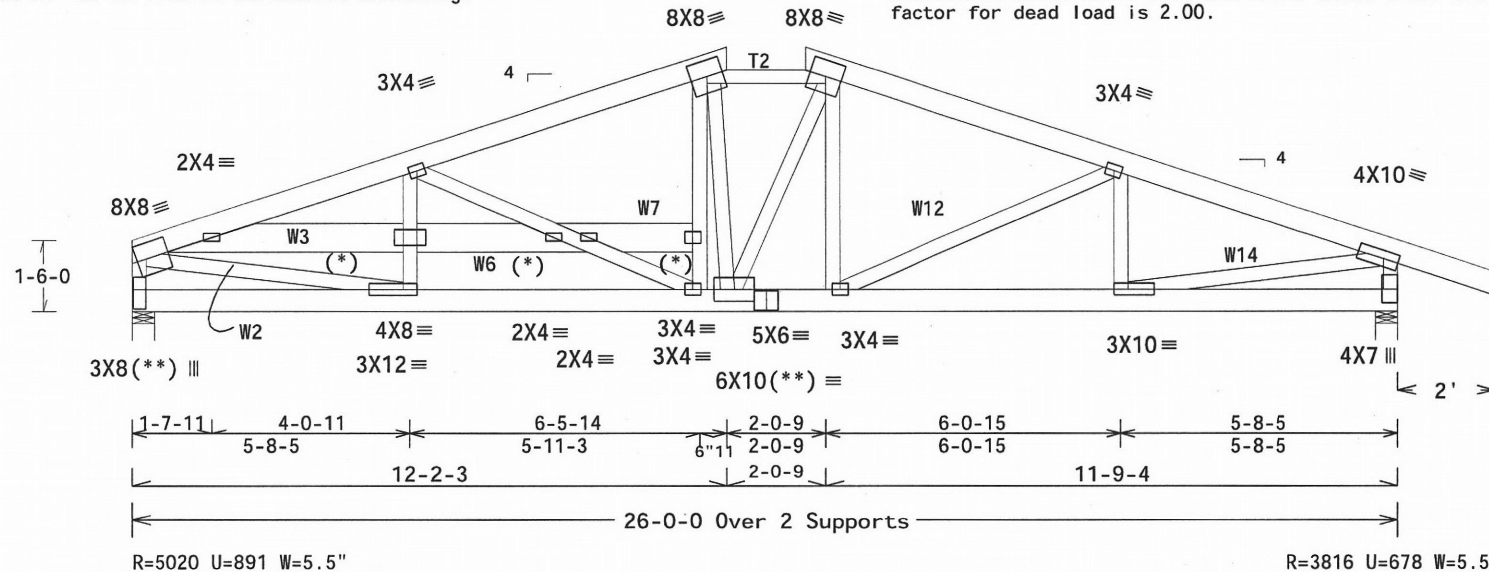
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 2.00.

City of Portland
REVIEWED FOR COMPLIANCE
APR 04 2013

Permit Number

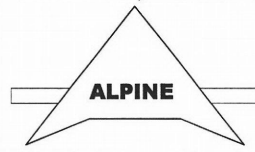
5-6-12

1-6-0
17-2-14



PLT TYP. Wave

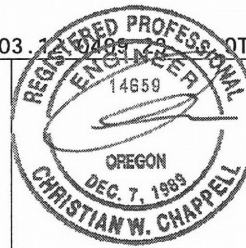
Trus-Way, Inc 360-750-1470
3901 NE 68th St., Vancouver WA



ITW Building Components Group, Inc.
Sacramento, CA 95828

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

10.03.1



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

QTY: 2

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

Scale = .275"/Ft.

| | | |
|----------|----------|-----------------------|
| 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 |

(124309-CUSTOMER: -- 1301 SE MILLER ST PORTLAND, OR - T07)

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.

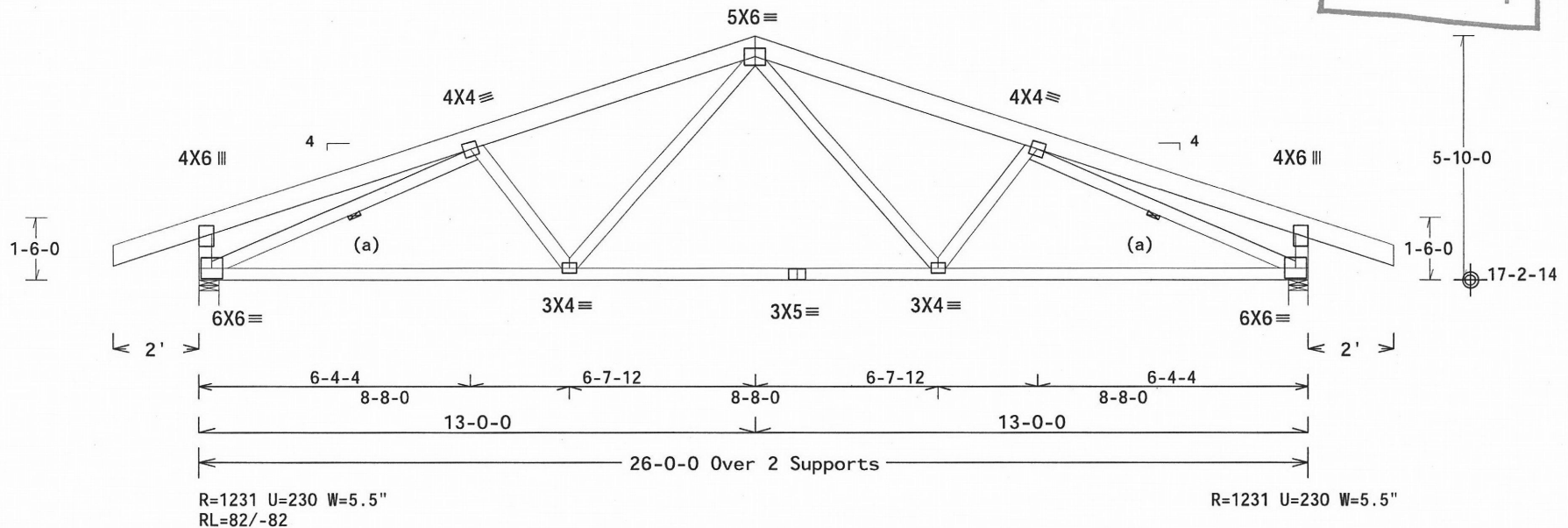
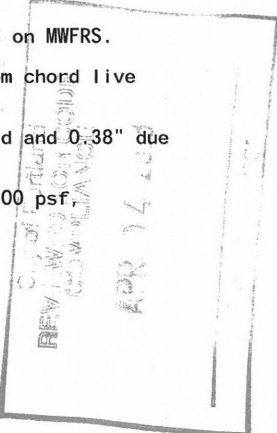
110 mph wind, 20.57 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.2 psf, wind BC DL=6.0 psf.

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.

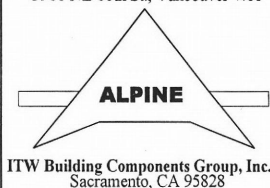
Calculated vertical deflection is 0.13" due to live load and 0.38" due to total load at X = 3-11-9.

Truss designed for unbalanced snow load based on $P_g=25.00$ psf, $C_t=1.10$, $C_e=1.00$, CAT II & $P_f=19.25$ psf.



PLT TYP. Wave

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



ITW Building Components Group, Inc.
 Sacramento, CA 95828

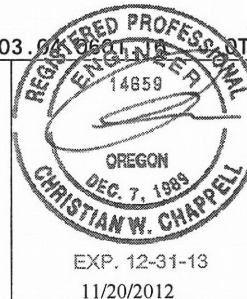
Design Crit: IRC2009/TPI-2007(STD)
 FT/RT=8%(0%)/4(1)

****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&A) 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 TPI-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.

10.03.04 10.03.04 QTY:16 OR/-/1/-/-/R/-

Scale = .275"/Ft.



| | | |
|----------|----------|-----------------------|
| 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 |



ALPINE

ITW Building Components Group, Inc.
Sacramento, CA 95828