# Community Services Department Planning and Building DETATCHED ACCESSORY DWELLING ADMINISTRATIVE REVIEW APPLICATION



Community Services Department Planning and Building 1001 E. Ninth St., Bldg. A Reno, NV 89520

Telephone: 775.328.6100

## Washoe County Development Application

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Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

| Project Information   | S                 | taff Assigned Case No.:          |                 |  |  |  |  |
|---|-------------------|----------------------------------|-----------------|--|--|--|--|
| Project Name:<br>FROST RESIDENC   | E ADDITION        | 4                                |                 |  |  |  |  |
| Project<br>Description: ADD GARAGE MOTHUR-IN-LAW QUARTERS TO<br>EXISTING HOME   |                   |                                  |                 |  |  |  |  |
| Project Address: 18200 L  | AKE VISNA         | ROAD                             |                 |  |  |  |  |
| Project Area (acres or square fee   |                   |                                  |                 |  |  |  |  |
| Project Location (with point of reference to major cross streets AND area locator):<br>LAKE VISTA ROAD OFF WILLIAM BRENT ROAD |                   |                                  |                 |  |  |  |  |
| Assessor's Parcel No.(s):   | Parcel Acreage:   | Assessor's Parcel No.(s):        | Parcel Acreage: |  |  |  |  |
| 055-081-83  | 3.76              |                                  |                 |  |  |  |  |
|   |                   |                                  |                 |  |  |  |  |
| Section(s)/Township/Range:  |                   |                                  | <u> </u>        |  |  |  |  |
| Indicate any previous Washo<br>Case No.(s).   | e County approval | s associated with this applicat  | lion:           |  |  |  |  |
| Applicant Info  | ormation (attach  | additional sheets if necess      | sary)           |  |  |  |  |
| Property Owner:   |                   | Professional Consultant:         |                 |  |  |  |  |
| Name: PAUL FEISS  | Γ                 | Name: RICHINED LAPRALELE         |                 |  |  |  |  |
| Address: 18200 LAKE   | E VISTA RO        | Address: 1595 AmiBUR             |                 |  |  |  |  |
| WASHOE VALLEY   | Zip: 09704        | REND                             | Zip: 89.523     |  |  |  |  |
| Phone: 775-843 - 7285   |                   | Phone: 775- 8 746- 1980 Fax:     |                 |  |  |  |  |
| Email: FTSNOW MAN 400   | & YAHOD. COM      | Email: RICHARDUNTEAURIER ME. Com |                 |  |  |  |  |
| Cell:   | Other:            | Cell:                            | Other:          |  |  |  |  |
| Contact Person: PAUL Fe   | ৩৬১               | Contact Person:                  |                 |  |  |  |  |
| Applicant/Developer:  |                   | Other Persons to be Contacted:   |                 |  |  |  |  |
| Name: same my or  | INOR_             | Name:                            |                 |  |  |  |  |
| Address:  |                   | Address:                         |                 |  |  |  |  |
|   | Zip:              |                                  | Zip:            |  |  |  |  |
| Phone:  | Fax:              | Phone:                           | Fax:            |  |  |  |  |
| Email:  |                   | Email:                           |                 |  |  |  |  |
| Cell:   | Other:            | Cell:                            | Other:          |  |  |  |  |
| Contact Person:   |                   | Contact Person:                  |                 |  |  |  |  |
|   | For Office        | Use Only                         |                 |  |  |  |  |
| Date Received:  | Initial:          | Planning Area:                   |                 |  |  |  |  |
| County Commission District:   |                   | Master Plan Designation(s):      |                 |  |  |  |  |
| CAB(s):   |                   | Regulatory Zoning(s):            |                 |  |  |  |  |

July 1, 2017

#### **Property Owner Affidavit**

Applicant Name: PAUL FROST

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF NEVADA

COUNTY OF WASHOE

PAUL FROST

(please print name)

being duly sworn, depose and say that I am the owner\* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

(A separate Affidavit must be provided by each property owner named in the title report.)

Assessor Parcel Number(s): 055 - 081 - 83 Printed Name\_ Signed Address 18200 ASHOE VAL (Notary Stamp) Spte of Nevel Cerron City Country Notary Public in and for said county and state PROCESSION CONTRACT CLAUDIA CASTILLO NOTARY PUBLIC My commission expires: Dec. 4. Jak STATE OF NEVADA My Appt. Exp. Dec. 4, 2018 io. 07-1325-3 \*Owner refers to the following: (Please mark appropriate box.) 💋 Owner Corporate Officer/Partner (Provide copy of record document indicating authority to sign.) Dever of Attorney (Provide copy of Power of Attorney.) Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)

- Property Agent (Provide copy of record document indicating authority to sign.)
- Letter from Government Agency with Stewardship

## Administrative Review Permit Application for a Detached Accessory Dwelling Supplemental Information

(All required information may be separately attached)

This application is for proposals to establish a Detached Accessory Dwelling unit in the Low Density Rural, Medium Density Rural, High Density Rural, and Low Density Suburban regulatory zones. Chapter 110 of the Washoe County Code is commonly known as the Development Code. Specific references to the administrative review permit process for Detached Accessory Dwellings may be found in Article 306, Accessory Uses and Structures, Section 25(i). A Detached Accessory Dwelling is also referred to as a "secondary dwelling" in this application. The "main dwelling" is the original or larger dwelling on the property.

1. What is the size (square footage) of the main dwelling unit or proposed main dwelling unit (exclude size of garage)?



2. What is the size of the detached accessory dwelling unit or proposed detached accessory dwelling unit (exclude size of garage)?

824 R2

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3. How are you planning to integrate both the main dwelling and secondary dwelling to provide architectural compatibility and a sense of project integration of the two structures?



4. How are you planning to provide water and wastewater disposal (sewer or septic) to the secondary dwelling unit?

WARDE FROM DUSTING WELL, SEWER USING A SEPERATE SEPTIC TANK AND TYING INTO EXISTING LEARN FIELD (LEARCH FIELD IS SIZED APPROPRIETLY)

Washoe County Planning and Building ADMINISTRATIVE REVIEW PERMIT APPLICATION SUPPLEMENTAL INFORMATION July 2017

5. What additional roadway, driveway, or access improvements are you planning?

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6. A parking space is required. How are you providing the additional parking?



7. When do you plan to complete construction of the secondary dwelling and obtain a certificate of occupancy?



8. What will you do to minimize any potential negative impacts (e.g. increased lighting, obstruction of views, removal of existing vegetation, etc.) your project may have on adjacent properties?



Washoe County Planning and Building ADMINISTRATIVE REVIEW PERMIT APPLICATION SUPPLEMENTAL INFORMATION  Is the subject property part of an active Home Owners Association (HOA) or Architectural Control Committee? If yes, please include the name and contact information for the applicable board.

DRON PUMPTON, 775-790-0044 YES. THE HOA ARCHITECTURAL COMMITTEE HAS APPROVED THE CONSTRUCTION PLANS.

10. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that may prohibit a detached accessory dwelling on your property?

Yes Yes If yes, please attach a copy.

11. Only one accessory dwelling unit, whether attached or detached, is allowed per parcel. Please verify that an accessory dwelling (i.e. secondary dwelling) currently does not exist on the subject property.

THERE ARE NO OTHER DUBLINLS ON THE PROPERN

12. List the age and size of the unit If you plan to utilize a manufactured or modular home as the secondary dwelling. (Note: manufactured or modular homes must be permanently affixed and converted to real property.)

CONVENTIONAL FRAMING WILL BE USED NA.

13. List who the service provider will be for the following utilities:

| a. Sewer Service                | SEPTIC            |
|---------------------------------|-------------------|
| b. Electrical Service           | NV ENERLY         |
| c. Solid Waste Disposal Service | WASTE MANIALEMENT |
| d. Water Service                | WELL (DOMESTIC)   |

## **Property Tax Reminder Notice**

PIN: 05508183 AIN:

WASHOE COUNTY PO BOX 30039 RENO, NV 89520-3039 775-328-2510

> AUTO :897042:

PAUL M & LISA M FROST

18200 LAKE VISTA RD WASHOE VALLEY NV 89704 Balance Good Through:04/26/2018Current Vear Balance:\$0.00Prior Year(s) Balance:\$0.00(see below for details)\$0.00Total Due:\$0.00

Description:

Situs: 18200 LAKE VISTA RD

This is a courtesy notice. If you have an impound account through your lender or are not sure if you have an impound account and need more information, please contact your lender directly. Please submit payment for the remaining amount(s) according to the due dates shown. Always include your PIN number with your payment. Please visit our website: www.washoecounty.us/treas

| Current Charges     |      |             |      |            |          |          |          |          |         |
|---------------------|------|-------------|------|------------|----------|----------|----------|----------|---------|
| PIN                 | Year | Bill Number | Inst | Due Date   | Charges  | Interest | Pen/Fees | Paid     | Balance |
| 05508183            | 2017 | 2017138094  | 1    | 08/21/2017 | 1,053.38 | 0.00     | 0.00     | 1,053.38 | 0.00    |
| 05508183            | 2017 |             | 2    | 10/02/2017 | 1,053.38 | 0.00     | 0.00     | 1,053.38 | 0.00    |
| 05508183            | 2017 |             | 3    | 01/01/2018 | 1,053.37 | 0.00     | 0.00     | 1,053.37 | 0.00    |
| 05508183            | 2017 |             | 4    | 03/05/2018 | 1,053.37 | 0.00     | 0.00     | 1,053.37 | 0.00    |
| Current Year Totals |      |             |      |            | 4,213.50 | 0.00     | 0.00     | 4,213.50 | 0.00    |

| Prior Years       |      |             |         |          |          |      |         |
|-------------------|------|-------------|---------|----------|----------|------|---------|
| PIN               | Year | Bill Number | Charges | Interest | Pen/Fees | Paid | Balance |
|                   |      |             |         |          |          |      |         |
| Prior Years Total | + +  |             |         |          |          |      |         |

Permit #



# **Washoe County**

Department of Building & Safety 1001 E. Ninth Street P.O. Box 11130

Reno, NV 89520-0027 Phone (775) 328-2020 FAX (775) 328-6132 or FAX (775) 325-8016 www.washoecounty.us/bldgsafety



## RESIDENTIAL/REMODEL

## **BUILDING PERMIT APPLICATION**

| Parcel Number:Address:Address:                  | 18200 Lake Vista Road Washoe Valley NV |
|---|--|
| Unit No   |  |
| Owner Information:                              | Owner/Builder Permit? 🕑 Yes 🔵 No       |
| Name:Paul Frost PE                              | Phone No: (775) 843-7285               |
| Address: 18200 Lake Vista Road Washoe Valley NV |  |
| Contractor Information:                         |  |
| General Contractor: Paul Frost PE               | Contact Name:                          |
| Address: 18200 Lake Vista Road Washoe Valley NV |  |
| Phone : (775) 843-7285                          | Fax :<br>ty Business License No.:      |
| Nevada License No. :Count                       | ty Business License No.:               |
| Design Professional Information:                |  |
| Architect's Name:                               | Phone No.:                             |
| Email:  | Fax No.:                               |
| Engineer's Name: Richard LaPrairie PE           | Fax No.:<br>Phone (775) 746-1980       |
| Email: RichardLaPrairie@me.com                  | Fax No.:                               |
| Person to contact regarding the permit:         |  |
| Name: Paul Frost PE                             | Phone No.: (775) 843-7285              |
| Email: ftsnowman000@yahoo.com                   | Fax No.:                               |

P:\DIVISION STANDARD FORMS\Permit Services\Permit Application IRC 2010.doc 04/05/2011

|   | Permit #  |                             |  |  |  |
|---|---|-----------------------------|--|--|--|
| Project Information:  | ( Complete Applicable Items )   |                             |  |  |  |
| Contract Price:To be determined<br>Total Project Sq. Footage: 2266 sf<br>New Living Area Sq. Footage:22 x 44= 968 sf<br>Remodel Sq. Footage:Current Living Area Sq. Footage:2644 sf<br>New Garage Sq. Footage:644 sf<br>New Garage Sq. Footage:645 sf<br>Current Garage Sq. Footage:645 sf<br>New Covered Deck and Porch Sq. Footage:<br>New Deck and Porch Sq. Footage:<br>Patio Cover or Sunroom Sq. Footage:<br>Shed Sq. Footage:<br>Fence Lineal Footage: |   | Yes INO<br>Yes No<br>Yes No |  |  |  |
| Description of Work:<br>The project will consist of an addition of 2 g<br>bathroom facilities. Garage 1 will have a 14<br>plate height. The living quarters will have th<br>Exterior walls will be 2x6 with R19 insulation  | ' plate height, Garage 2 will hav<br>e same floor elevation as the ex | re a 10' top                |  |  |  |
| Applicant (print) Richard LaPrairie PE<br>Signature fattate G la Plata  | <b>Date:</b> April 18,  | 2018                        |  |  |  |
| FOR OFFICI  | E USE ONLY  |                             |  |  |  |
| 570   |   |                             |  |  |  |
| RTC:<br>New Single Family Home  Accessory Dwelli  | ing (second kitchen on site) □  | N/A 🗆                       |  |  |  |
|   | ing (second kitchen on site) □  | N/A 🗆                       |  |  |  |
| New Single Family Home        Accessory Dwelli         Park Tax Determination:       Accessory Dwelli   | ing (second kitchen on site) □<br>g Dwelling Built Prior To 1974 □    | N/A 🗆                       |  |  |  |
| New Single Family Home        Accessory Dwelli         Park Tax Determination:       Accessory Dwelli         New Dwelling on Vacant Lot        Replace Existing         Building Code Information:       Accessory Dwelli  | g Dwelling Built Prior To 1974 🗆                                      | N/A 🗆                       |  |  |  |
| New Single Family Home       Accessory Dwelling         Park Tax Determination:       Replace Existing         New Dwelling on Vacant Lot       Replace Existing  | g Dwelling Built Prior To 1974  ode used:                             | N/A 🗆                       |  |  |  |













| ENGINEERING  |  |  |  |  |  |
|--|--|--|--|--|--|
| 1595 Ashbury Lane<br>Reno NV 89523<br>Phone (775) 746-1980<br>EMAIL<br>RichardLaPrairie@me.com   |  |  |  |  |  |
| RICHARD G.<br>LaPRAIRIE<br>4-Civil<br>Vo. 12910<br>Exp 12/31/2019  |  |  |  |  |  |
| Addition<br>for Paul Frost<br>18200 Lake Vista Road<br>Washoe Valley Nevada<br>APN 055-081-83  |  |  |  |  |  |
| 4 4/18/18 for Permit     3 2/11/18 for HOA     2 1/01/18 redo elevations     1 12/09/17 for discussion MARK DATE DESCRIPTION  PROJECT NO: 2450 |  |  |  |  |  |
| DRAWN BY: R.G. LaPrairie,PE<br>CHK'D BY: R.G. LaPrairie,PE   |  |  |  |  |  |
| Sections<br>C-5  |  |  |  |  |  |
| SHEET 5  |  |  |  |  |  |



- opbox/Fro
- g/Drop





| STRUCTU            | IRAL CAL | CULATIONS | PAGE No. (Page 1/16) |
|--------------------|----------|-----------|----------------------|
| Client: Paul Frost | Job No.: | 2485      | Date: April 18, 2018 |

Project: Paul Frost Home addition Address: 18200 Lake Vista Rd. Carson City, NV 89704-9670

# STRUCTURAL CALCULATIONS Paul Frost Addition



EXP 12/31/2019

# **Project Description**

The project will consist of an addition of 2 garages and living quarters with kitchen and bathroom facilities. Garage 1 will have a 14' plate height, Garage 2 will have a 10' top plate height. The living quarters will have the same floor elevation as the existing structure. Exterior walls will be 2x6 with R19 insulation. Interior walls will be 2x4.

The addition will be constructed on the South end of the home and the existing roof tile will be removed and a new roof will be framed on top so no significant additional loading will be added to the structure.

The electric supply line will have to be relocated and the new toilet facilities will be plumbed in to the existing "On site" disposal system.

New construction will be done to closely match the existing home exterior.

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Client: Paul Frost Job No.: 2485 Date: April 18, 2018

Project: Paul Frost Home addition Address: 18200 Lake Vista Rd. Carson City. NV 89704-9670

## GENERAL CONSTRUCTION NOTES

GENERAL

1. The scope of this construction notes is limited to the typical low-rise wood structures on concrete footings in the western United States.

2. All work shall conform to the 2012 IBC or the building codes which are currently adopted by the local building department. The local building department is defined as the local government department by which the building permit of the project will be issued.

3. Unless noticed otherwise, allowable stresses method is used for the structural analysis.

4. The Engineer is responsible for the structural items in the plans only. Should any changes be made from the design as detailed in these calculations without written approval from the Engineer then the Engineer assumes no responsibility for the entire structure or any portion thereof. Should the results of the calculations not be fully or properly transferred to the plans, the Engineer assumes no responsibility for the structure.

5. These calculations are based upon a completed structure. Should an unfinished structure be subjected to loads, the Engineer should be consulted for an interim design or if not, will assume no responsibility.

6. The details shown on the drawings are typical. Similar details apply to similar conditions.

#### SITE WORK

1. Soil bearing pressure shall be determined in accordance with soil report for the project. Wherever soil report is not available, the soil bearing pressure shall be in accordance with 2012 IBC Table 1804.2 or current local building codes.

2. Building sites are assumed to be drained and free of clay or expansive soil. These calculations assume stable, undisturbed soils and level or stepped footings. Any other conditions should be reported to this Engineer.

3. Foundations shall bear on non-expansive native soil or compacted structural back fill. Any loose soil in the bottom of the footing excavations shall be compacted to at least 90% relative compaction or removed to expose firm, unvielding material.

4. All footings shall bear on undisturbed soil with a footing depth below frost line.

5. All finished grade shall slope a minimum of 2% away from foundation for a minimum of 10 ft.

6. This Engineer has not made a geotechnical review of the building site and is not responsible for general site stability or soil suitability for the proposed project.

#### FILL & BACKFILL

Fill and back fill material shall be prepared in accordance with the geotechnical report for the project. Wherever the geotechnical report is not available, the fill and back fill material shall satisfy following minimum requirement:

1. Fill material shall be free from debris, vegetation, and other foreign substances.

2. Backfill trenches shall be compacted to 90% density per ASTM D1557 to within 12" of finished grade. The top 12" shall be landscape fill.

3. Backfill at pipe trenches shall be compacted on both sides of pipe in 6" lifts.

4. Waterproof exterior faces of all foundation walls adjacent to usable spaces.

5. Backfill at foundation walls shall be compacted to 90% relative density.

6. Use 4" diameter PVC, perforated pipe sub-drain behind all retaining walls. Slope pipe to drain to daylight and drywell.

#### CONCRETE AND MASONRY

1. Unless noted otherwise, Concrete shall have a minimum 28 day compressive strength of 2500 PSI.

2. Concrete shall be air entrained to not less than 5% and not more than 7%.

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Client: Paul Frost Job No.: 2485 Project: Paul Frost Home addition Date: April 18, 2018

Address: 18200 Lake Vista Rd. Carson City, NV 89704-9670

3. All slabs on grade shall have a minimum thickness of 4" and be reinforced with 6x6x10WW mesh at centerline as per ASTM A185, or with fiber-mesh as per manufacturers specifications.

4. All slabs on grade shall be placed over 4" minimum of free draining aggregate base compacted to a minimum of 95% relative compaction. Provide 2" sand above and below a 6 mil (min.) vapor barrier at all living areas and areas requiring moisture protection.

5. Slab sub-grade (upper six inches) shall be scarified. Moisture conditioned to within 2% of optimum, and uniformly compacted to at least 90% of maximum dry density as determined by ASTM D1557. This will not be required if slabs are to be placed directly on undisturbed compacted structural fill.

6. Water proofing of foundations and retaining walls is the responsibility of the owner.

7. Reinforcement shall be grade 60 as per ASTM A615 UNO.

8. Concrete stem walls and footings are to be a monolithic pour. Provide vertical #4's @ spacing no more than 16" o.c. in stem wall developed into footing for two-poured stem wall / footing assemblies.

9. All masonry units shall conform to ASTM C90 grade N.

10. All masonry cells are to be solid grouted with mortar conforming to ASTM C279 Type S, with a 28 day compressive strength of 2000 psi min.

11. Reinforcement cover in cast-in-place concrete shall be as follows: 3" concrete cast against and permanently exposed to earth; 1-1/2" concrete exposed to earth or weather with #5 bars or smaller. 1-1/2" concrete not exposed to weather or in contact with ground with #11 bars and smaller; 1 -1/2" beams, columns, and pilaster, cover over ties; 1-1/2" clear to top for reinforcement in slabs on grade.

12. Provide slab control joints (saw cut or plastic inserts) at 20'-0" maximum spacing each way for 4" slab. Control Joint to be 1/4 of slab depth.

13. Vertical steel placement in masonry stem walls to be #4 bars at 32" o.c. maximum UNO.

14. Horizontal steel placement in masonry stem walls to be #4 bars at 24" o.c. maximum spacing, UNO.

15. Reinforced concrete shall conform to applicable requirements of ACI Standard 318-89.

16. Aggregate shall conform to ASTM C33 for stone aggregate.

17. Use normal weight concrete (145 pcf) for all concrete U.N.O. Use Type II cement, U.N.O. Use Type V cement if soil contains sulfate concentrations of 0.2% or more.

18. Weather protection: In hot weather, follow "Recommended Practice for Hot Weather Concreting", ACI 305. 2) In cold weather, follow "Recommended Practice for Cold Weather Concreting", ACI 306.

19. All reinforcing steel and anchor bolts shall be accurately located and adequately secured in position before and during placement of concrete.

20. All details of fabrication and installation of reinforcing steel shall be in accordance with the ACI Manual of Standard Practice.

21. Client shall level completed foundation before commencing framing and record any variations in the foundation of 1/2" or greater.

#### WOOD FRAMING

1. Roof plywood thickness is per APA load tables based upon roof live load and framing spacing. Apply face grain perpendicular to framing, stagger panels and nail per plan.

2. Floor plywood shall be APA rated plywood and glued and nailed per plan.

3. Plywood shall conform to APA, PS 1. Shear plywood shall be 'Exposure 1' C-D, C-C, or 303 (T-1-11). Alternate sheathing may be substituted for floors, roofs, and shear walls provided they are structurally equivalent to the plywood specified. Plywood permanently exposed to weather and/or moisture shall be rated 'Exterior'.

4. Wood structural panel diaphragms and shear walls shall be constructed with wood structural panel sheets not less than 4 feet by 8 feet, except at boundaries and changes in framing where minimum sheet dimensions shall be 2 feet by 4 feet. Framing members or blocking shall be provided at the edges of all sheets in shear walls.

5. Headers that are not specifically addressed in the calculations shall be typical header specified on the plans. (OK by observation). Use (2) trimmers on all openings 5'-0" and larger, U.N.O.

6. Floor joists shall be Douglas Fir #2 min. Size and space in accordance with building code tables using E = 1.6 max. Engineer recommends using E less than 1.2. Manufactured "I" joists (such as Truss Joists) may be substituted for sawn lumber, size and spacing as per manufacturer's recommendations. Use manufactured rim joist (such as Timber Strand) with all "I" joists.

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Client: Paul Frost Job No.: 2485 Project: Paul Frost Home addition Date: April 18, 2018

Address: 18200 Lake Vista Rd. Carson City, NV 89704-9670

7. All foundation sill plates, nailers, and ledgers in direct contact with concrete and within 6" of ground shall be pressure treated Douglas Fir or Hem Fir.

8. Studs shall be stud grade or better. In no instance shall a stud wall be used to retain soil or resist lateral pressure due to snow loading. In the case of snow build up against a stud wall the owner shall be responsible to eliminate snow to stud wall contact.

9. All framing lumber shall be Douglas Fir Larch with moisture content less than 19%, UNO.

10. Glu-lams shall be 24F-V4 UNO. Glu-lams exposed to weather must be rated for exterior use by the manufacturer or approved protection from exposure to be provided. In beams for floor applications, zero camber shall be provided.

11. Laminated veneer lumber and parallel strand lumber specified shall have the following minimum design strengths: 1[" wide : Fb=2600 psi, Fv=285 psi, E=1,800,000 psi and 2-11/16" wide & up: Fb=2900 psi, Fv=290 psi, E=2,000,000 psi.

12. Splice all beams over supports or sawcut top 1/3 at support (not @ cantilevers), uno.

13. Where multiple trimmers or studs are specified, those trimmers are to be stacked in all wall framing and solid vertical grain blocking shall be provided @ all floor levels down to the foundation, uno.

14. Where posts with column caps, straps, or bearing plates are called out for, the load is to be transferred to the foundation with posts as specified and solid vertical grain blocking shall be provided @ all floor levels down to the foundation, uno.

15. All built up, laminated double or multiple 2X joists and beams shall be nailed together with (3) rows of 16d nails at 12" oc. staggered, uno. Three piece members shall be nailed from each side.

16. All 4x and 6x posts, columns, and headers shall be D.F. #1 or better, uno. All other 4x and 6x framing members shall be D.F. #2 or better, uno.

17. All framing members specified in these calculations are minimums, and larger members may be substituted.

18. All floor openings shall be between joists, uno.

19. DO NOT drill holes, notch, or cut into beams, studs, and joists, unless detailed on the plans.

20. Provide double joists below all parallel partition walls.

21. When using "green" lumber, care shall be taken to allow for the effects of shrinkage. If necessary to avoid sagging, joists, rafters, and beams shall be braced at mid span until lumber has dried out and reached a stable moisture content.

22. Where feasible manufactured options have been specified, engineer recommends the use of manufactured lumber products in lieu of dimensional lumber in all cases to control shrinkage related problems.

23. Use galvanized metal fasteners, hangers, straps etc. for all pressure treated wood products.

#### HARDWARE / STRUCTURAL STEEL

1. All hardware specified shall be Simpson Strong-Tie Co. (or equal) installed per manufacturer's specifications, uno.

2. Structural steel shall conform to ASTM A992 GR50, uno. Pipe columns shall conform to ASTM A53, Type E or S, uno. Hollow structural steel sections shall conform to ASTM 500, Grade B, uno.

3. All welding shall conform to the American Welding Society specifications. All welding shall be done by welders certified by the local building authority. All shop welding shall be in an approved fabricators shop authorized by the local building authority or specific inspection per the building codes shall be provided. All field welding shall require special inspection per building codes.

4. All welding electrodes shall be E7OXX or shielded wires with Fy greater than 70ksi.

5. All nails specified are common nails. Nails for sheathing may be differ from commons as specified in the shear nail specifications table. No substitutions unless specified on plans or in these calculations or approved in writing by Engineer.

6. The minimum nailing for all framing shall conform to the tables in current building codes.

7. All bolts specified must meet ASTM A307. Bolt holes shall be 1/32" to 1/16" larger than the specified bolt. Washers shall be used at each bolt head and nut next to wood. All washers to be not less than standard cut washers.

8. Provide 2" x 2" x 3/16" plate washers on all foundation anchor bolts.

LMI ENGINEERING

1595 Ashbury Lane, Reno NV 89523 Phone (775) 746-1980

| STRUC                 | FURAL CALCUL     | ATIONS PAGE 1             | No.(Page 5 /16) |
|-----------------------|------------------|---------------------------|-----------------|
| =====                 |                  |                           |                 |
| Client: Paul Frost    | Job No.: 248     | 35 Date:                  | April 18, 2018  |
| Project: Paul Frost H | Iome addition    |                           |                 |
| Address: 18200 La     | ike Vista Rd. Ca | arson City, NV 89704-9670 |                 |

9. In steel to steel connections thread shall be excluded from shear plane.

#### TRUSSES

1. A complete process of the truss producing requires the involvement of multiple parties. In addition to the close cooperation and communications among each member of the parties, which including but not limited to, the truss designer, the engineering of record, and the contractor, each individual or organization should fully understand his/her responsibilities during the entire process of truss producing including but not limited to, building dimension, building elevation, roof framing type, ceiling type, truss design, truss review, field storage, handling, installation, temporary and permanent truss bracing.

2. Unless an alternate agreement among the parties has been made, each party shall agree the guide line TWCA 1-1995, "Standard Responsibilities in the Design Process Involving Metal Plate Connected Wood Trusses".

3. All prefabricated trusses shall be fabricated by a code approved manufacturer. The manufacturer shall be responsible for the design and certification of the trusses.

4. All trusses shall be designed in according to the requirements set forth in the latest approved edition of ANSI/TPI. "National Design Standard for Metal Plate Connected Wood Truss Construction."

7. Truss design loads shall be in accordance with the latest local approved building codes and ordinances for all loads imposed, including but not limited to, dead loads, live loads, snow loads, wind loads, seismic loads, attic loads and mechanical equipment loads. Truss designer shall review all architectural drawings and meet architectural profiles as indicated.

4. It is the responsibility of the manufacturer to conform the truss design according to the loading conditions as called for in these calculations, such as live and dead loads, truss spacing, spans and eave overhangs, roof pitch, bearing points and drag loads.

5. Truss manufacturer shall supply to the building designer the calculations and shop drawings for final reviewing and approval prior to fabrication. The building designer will review and approve the trusses from the national certified manufacturers only.

6. All calculations and shop drawings shall be carefully reviewed and signed by a registered engineer in the state in which the structure is being built.

7. While the building designer shall make all his/her effort to find the flaws or design errors for each individual truss and notify the truss designer to correct the problems he/she may have found, the engineer who signs the truss calculations shall be ultimately responsible for the structural behavior of each individual truss.

8. Shop drawings shall also include the following information: 1) Project name and location. 2) All design loads as set forth in these calculations. 3) Member stresses, deflections, type of joint plates, and allowable design values. Truss joints shall be designed per current version of ANSI/TPI standard. 4) Type, size, and location of hangers to be used for the project. Hangers shall be designed to support the full vertical load and a lateral load equal to 20% of the vertical reaction. All connectors shall be code approved and of adequate strength to resist stresses due to the loading involved.

9. The truss manufacturer shall be responsible for all truss to truss connections, all trusses to girder connections, and if the girder truss is made up of more than one truss, all connections between these trusses.

10. The truss manufacturer shall insure that the truss package meets the profile as required by the contract documents.

11. Total load deflection shall be limited to L/240. Live load deflection shall be limited to L/360.

12. Trusses are to be handled, installed, and braced (temporarily or permanently) in accordance with HIB-91 of the TPI. Cross bridging and/or bracing shall be provided for and detailed by truss manufacturer as required to adequately brace all trusses.

13. Where truss blocking is called out, the blocking piece shall be the same depth as the adjoining members and capable of resisting a lateral load equal to 500 pounds in its plane, or be sheathed with 1/2" CDX plywood and nailed with 10d common nails at 6" o.c. edge nailing.

14. The truss manufacturer shall be responsible for the design of all trusses used as drag or chord members and shall insure that such trusses are placed as required on the framing plans. The amount of load to be

LMI ENGINEERING

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laterally transmitted by the member shall be a minimum of 2000 pounds unless otherwise shown on the framing plans.

15. The truss manufacturer shall provide a means of attic access when spacing is 16" oc or less.

16. Gable end trusses shall be structural, designed to support overhang and to allow a top chord notch of 1 1/2"

17. Girder trusses are to be supported by multiple trimmers or posts.

18. All non-bearing walls are to have a 1/2" gap to the bottom chord of trusses.

19. When snow loads exceed 50 psf the trusses shall be stacked over wall studs at bearing points.

#### DESIGN LOADS

1. All floor and roof systems shall be designed per 2012 IBC or the current local building codes.

2. Where snow loads occur that are in excess of the design conditions, the structural systems shall be designed for such loads as determined by the local building official.

3. Every building or structure and every portion thereof shall be designed to resist wind effects in accordance with current building codes.

4. Every building or structure and every portion thereof shall be designed to resist the effects of seismic ground motions in accordance with 2012 IBC or the current local building codes.

5. Design snow loads of 30 psf or less need not be combined with seismic loads. Where design snow loads exceed 30 psf the design snow load shall be included with seismic loads, but may be reduced up to 75% where consideration of sitting, configuration and load duration warrant when approved by the building official.

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#### **Structural DESIGN**

Ground snow load 30 psf Roof snow load 21 psf

\_

Wind velocity 130 mph vult Frost Depth 24"

Seismic design for site D

| Address         | 18200 Lake Vista |     |                |   |  |
|-----------------|------------------|-----|----------------|---|--|
|                 | Degrees          | Min | Sec            | Degrees Decimal   |  |
| Ν               | 39               | 15  | 44.94          | 39.2624833  |  |
| W               | 119              | 49  | 28.39          | -119.82455  |  |
|                 |                  |     |                | $V = C_s W$   |  |
| S <sub>DS</sub> | 1.532            |     |                | Sec   |  |
| R               | 6.5              |     |                | $C_s = \frac{2Ds}{\langle p \rangle}$                         |  |
| Ie              | 1                |     |                | $\left  \frac{K}{T} \right $                                  |  |
| Cs              | 0.2357           |     |                | $V = C_s W$ $C_s = \frac{S_{DS}}{\left(\frac{R}{I_e}\right)}$ |  |
| V=              | 21,898           | lb  | Seismic s      |   |  |
| W               |                  |     |                |   |  |
| Garage 1        |                  |     |                |   |  |
| Roof            | 958              | sf  | 16,166         |   |  |
| Walls 14'       | 88               |     | 13,552         | 12 psf  |  |
| Garage 2        |                  |     |                |   |  |
| Roof            | 513              | sf  | 8,657          |   |  |
| walls 10'       | 48               | lf  | 5,760          | 12 psf  |  |
| Addition        |                  |     |                |   |  |
| Roof            | 1197             | sf  | 20,199         |   |  |
| Walls 9'        | 110              | lf  | 11,880         |   |  |
| Ceiling         | 968              |     | 1,936          |   |  |
| Walls int 8'    | 58               | lf  |                | 20 psf  |  |
| Trusses         |                  |     | 5,479          |   |  |
| Total weight    |                  |     | <b>9</b> 2,909 | lb  |  |
| SHEAR E-W       | 203              | PLF |                |   |  |
| SHEAR N-S       | 279              | PLF |                |   |  |
| Ave             | 241              |     |                |   |  |
| Tile roof (psf) | 15.00            | psf |                |   |  |
| Plywood lb/in   | 1.88             | psf |                |   |  |
| Seismic wt      | 16.88            |     |                |   |  |



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.







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## SHEAR

### Wind and Seismic almost the same

#### Table 4.3A Nominal Unit Shear Capacities for Wood-Frame Shear Walls<sup>1,3,6,7</sup>

|                                      |                         |                       |                                    |                | Wo       | od-ba     | ased P         | anel     | s <sup>4</sup> |                |         |          |
|--------------------------------------|-------------------------|-----------------------|------------------------------------|----------------|----------|-----------|----------------|----------|----------------|----------------|---------|----------|
|                                      |                         | Minimun               |                                    |                |          |           |                |          |                | A<br>SMIC      |         |          |
| Charthing                            | Minimum<br>Nominal      | 1 00001101            | Fastener                           |                |          |           | Par            | nel Edg  | e Faste        | ener Sp        | acing ( | in.)     |
| Sheathing<br>Material                | Panel                   | in Framing            | Type & Size                        |                | 6        |           |                | 4        |                |                | 3       |          |
|                                      | Thickness<br>(in.)      | Member or<br>Blocking |                                    | V <sub>s</sub> | 0        | 3.        | V <sub>s</sub> | G        | <b>)</b>       | V <sub>s</sub> | (       | 3.       |
|                                      | (,                      | (in.)                 |                                    | (plf)          | (kips    | s/in.)    | (plf)          | (kips    | s/in.)         | (plf)          | (kip    | s/in.)   |
|                                      |                         |                       | Nail (common or<br>galvanized box) |                | OSB      | PLY       |                | OSB      | PLY            |                | OSB     | PL       |
| Wood<br>Structural                   | 5/16                    | 1-1/4                 | 6d                                 | 400            | 13       | 10        | 600            | 18       | 13             | 780            | 23      | 16       |
| Panels -                             | 3/82                    |                       |                                    | 460            | 19       | 14        | 720            | 24       | 17             | 920            | 30      | 20       |
| Structural I <sup>4,5</sup>          | 7/162                   | 1-3/8                 | 8d                                 | 510            | 16       | 13        | 790            | 21       | 16             | 1010           | 27      | 19       |
|                                      | 15/32                   |                       |                                    | 560            | 14       | 11        | 860            | 18       | 14             | 1100           | 24      | 17       |
|                                      | 15/32                   | 1-1/2                 | 10d                                | 680            | 22       | 16        | 1020           | 29       | 20             | 1330           | 36      | 22       |
|                                      | 5/16                    | 1-1/4                 | 6d                                 | 360<br>400     | 13<br>11 | 9.5       | 540<br>600     | 18       | 12             | 700            | 24      | 14<br>13 |
| Wood                                 | 3/8<br>3/8 <sup>2</sup> |                       |                                    | 400            | 17       | 8.5       | 640            | 15<br>25 | 11             | 780            | 20      | 13       |
| Structural                           | 7/162                   | 1-3/8                 | 8d                                 | 480            | 15       | 11        | 700            | 22       | 14             | 900            | 28      | 17       |
| Panels –<br>Sheathing <sup>4,5</sup> | 15/32                   |                       |                                    | 520            | 13       | 10        | 760            | 19       | 13             | 980            | 25      | 15       |
| oneauning                            | 15/32                   | 1-1/2                 | 10d                                | 620            | 22       | 14        |                | 30       | 17             | 1200           | 37      | 19       |
|                                      | 19/32                   | 1-172                 |                                    | 680            | 19       | <u>13</u> | IINIMUN        | A 26     | 16             | 1330           | 33      | 18       |
| Plywood                              |                         |                       | Nail (galvanized casing)           |                |          |           |                |          |                |                |         | _        |
| Siding                               | 5/16                    | 1-1/4                 | 6d                                 | 280<br>320     |          | 3         | 420            |          | 6              | 550            |         | 7        |
|                                      | 3/8                     | 1-3/8                 | 8d<br>Nail (common or              | 320            | 1        | 6         | 480            | 1        | 8              | 620            | 2       | 0        |
| Particleboard                        |                         |                       | galvanized box)                    | 1              |          |           |                |          |                |                |         |          |
| Sheathing -                          | 3/8                     |                       | 6d                                 | 240            | 1        | 5         | 360            | 1        | 7              | 460            | 1       | 9        |
| (M-S "Exterior<br>Glue" and          | 3/8                     |                       | 8d                                 | 260            | 1        | 8         | 380            | 2        | 0              | 480            | 2       | 1        |
| M-2 "Exterior                        | 1/2                     |                       |                                    | 280            |          | 8         | 420            |          | 0              | 540            |         | 2        |
| Glue")                               | 1/2                     |                       | 10d                                | 370            | 2        |           | 550            |          | 3              | 720            | -       | 94       |
|                                      | 5/8                     |                       |                                    | 400            | 2        | 1         | 610            | 2        | 3              | 790            | 2       | 14       |

Shear all walls with minimum 6d on 6"

|   | RUCTURAL CAL     | CULATION           |  |                 |         |                   |
|---|------------------|--------------------|--|-----------------|---------|-------------------|
|   |                  | on                 | ====================================== | =======<br>9670 | Date: A | <br>oril 18, 2018 |
| Shear   |                  |                    |  |                 |         |                   |
| -   | ~                | ~                  | ~                                      | ~               | ~       | <u> </u>          |
| - Y   | Ŷ                | Ŷ                  | Ŷ                                      | Ÿ               |         | 1407              |
| -<br>-<br>-<br>-<br>-   | <u>8.62</u> · 52 | <u>,</u><br>T      |  |                 | 1419    |                   |
|   |                  |                    | 10.49                                  | 16.61           |         |                   |
| -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 3                |                    |  |                 | 14.2    |                   |
|   |                  |                    |  |                 |         | ¢.                |
| EAST WEST   | 10.65            | NORTH SO<br>LINE B | JUTH                                   | 3               |         |                   |
| LINE 3  | 16.63            |                    |  | 3.16            |         |                   |
|   | 17.36            |                    |  | 3.01            |         |                   |
| LINE 5  | 5.39             |                    |  | 14.22           |         |                   |
|   |                  | LINE D             |  | 4               |         |                   |
|   | 16.61            |                    | 1                                      | 12.16           |         |                   |
|   | 8.68             |                    |  | 6.39            |         |                   |
| LINE 7  | 3.61             |                    |  | L0.49           |         |                   |
|   | 6.62             |                    |  | 3.9             |         |                   |
|   | 8.67             |                    |  | 5.25            |         |                   |
|   | 6.84<br>3.02     |                    |  | 8.63<br>4.29    |         |                   |
| TOTAL   | 107.72           |                    |  | 4.29<br>78.5    |         |                   |
| Seismic Plf   | 203              |                    |  | 279             |         |                   |
| Wind N Plf  | 203              |                    |  | 151             |         |                   |
| Wind W Plf  | 201              |                    |  | 1.71            |         |                   |
| Wind E Plf  | 203              |                    |  |                 |         |                   |
|   |                  |                    | 1                                      |                 |         |                   |

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## TRUSSES

| Truss | Page | ft | in | frac  | L (in)  | No | wt    | total wt lb |
|-------|------|----|----|-------|---------|----|-------|-------------|
| A01   | 2    | 24 | 5  | 1     | 293.063 | 1  | 138   | 138         |
| A02   | 3    | 24 | 5  | 1/8   | 293.008 | 2  | 117   | 234         |
| A03   | 4    | 24 | 5  | 1/8   | 293.008 | 5  | 120   | 600         |
| A04   | 5    | 24 | 5  | 1/8   | 293.008 | 2  | 125   | 250         |
| A05   | 6    | 24 | 5  | 1/8   | 293.008 | 6  | 115   | 690         |
| A06   | 7    | 24 | 2  | 2.00  | 290.125 | 1  | 134   | 134         |
| B01   | 8    | 22 |    |       | 264.000 | 1  | 109   | 109         |
| B02   | 9    | 18 | 3  | 1.000 | 219.063 | 1  | 131   | 131         |
| B03   | 10   | 18 | 3  | 1.000 | 219.063 | 1  | 109   | 109         |
| B04   | 11   | 18 | 3  | 1.000 | 219.063 | 1  | 123   | 123         |
| B05   | 12   | 18 | 3  | 1.000 | 219.063 | 2  | 117   | 234         |
| B06   | 13   | 18 | 3  | 1.000 | 219.063 | 1  | 115   | 115         |
| B07   | 14   | 22 |    |       | 264.000 | 8  | 106.4 | 851.2       |
| B08   | 15   | 22 |    |       | 264.000 | 1  | 113   | 113         |
| B09   | 16   | 22 |    |       | 264.000 | 1  | 97    | 97          |
| B10   | 17   | 22 |    |       | 264.000 | 1  | 120   | 120         |
| V1    | 18   | 5  | 6  |       | 66.000  | 1  | 18    | 18          |
| V2    | 19   | 9  | 8  |       | 116.000 | 2  | 37    | 74          |
| V3    | 20   | 13 | 6  |       | 162.000 | 2  | 49    | 98          |
| V4    | 21   | 17 | 6  | 1     | 210.063 | 1  | 76    | 76          |
| V5    | 22   | 21 | 6  | 1     | 258.063 | 1  | 91    | 91          |
| LG1   | 23   | 12 | 5  | 3     | 149.188 | 2  | 84    | 168         |
| LG2   | 24   | 9  | 11 | 11    | 119.688 | 2  | 60    | 120         |
| CG1   | 25   | 8  | 3  | 4     | 99.250  | 7  | 48    | 336         |
| CG2   | 26   | 8  | 3  | 4     | 99.250  | 1  | 45    | 45          |
| J1    | 27   | 1  | 6  |       | 18.000  | 15 | 8.5   | 127.5       |
| J1A   | 28   | 1  | 10 | 15    | 22.938  | 1  | 7     | 7           |
| J2    | 29   | 3  | 10 | 15    | 46.938  | 15 | 15.4  | 231         |
| J2A   | 30   | 3  | 10 | 15    | 46.938  | 1  | 13    | 13          |
| J3    | 31   | 5  | 11 | 4     | 71.250  | 1  | 26    | 26          |
|       |      |    |    |       |         |    |       | 5478.7      |



| STRUCTURAL CALCULATIONS                 |   |
|---|---|
| ======================================= | = |

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## Envelope Assemblies

| Assembly                        | Gross Area<br>or<br>Perimeter | Cavity<br>R-Value | Cont.<br>R-Value | U-Factor | UA |
|---------------------------------|-------------------------------|-------------------|------------------|----------|----|
| Ceiling: Raised or Energy Truss | 740                           | 17.9              | 16.0             | 0.028    | 21 |
| Wall: Wood Frame, 16" o.c.      | 826                           | 19.0              | 17.8             | 0.028    | 20 |
| Window: Other                   | 127                           |                   |                  | 0.390    | 50 |
| Floor: All-Wood Joist/Truss     | 968                           | 30.0              | 28.0             | 0.017    | 16 |

*Compliance Statement:* The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2012 IECC requirements in REScheck Version : REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

## **Richard LaPrairie, PE**

| Name - Title | Signature | Date |
|--------------|-----------|------|
|              |           |      |
|              |           |      |

4/8/2018





For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

| Job Number: 180336<br>FROST ADDITION APN           | #055-081-83  |  | Ply: 1<br>Qty: 2  | SEQN: 4078 / T2 / HIPS<br>FROM: DW   | DRW:   |         |
|--|--|--|---|--|--|---------|
| Truss Label: A02                                   |  |  | Wgt: 117.6 lbs  |  | / 02/26/20   | )18     |
|  | 714414   | 1010#40  | 10014   | 24   | <b>F</b> "0  |         |
| F  | 7'11"4<br>7'11"4   | 12'2"12<br>+ - 4'3"8   | - <del> -</del> 16'6"4<br>4'3"8   |  | ′5"8 →<br>1"4  |         |
|  |  |  |   |  |  |         |
| _  |  | ≡H0510 B DT -1"11  | ■1.5X4<br>C (T2)  | ≡H0508<br>D  |  | _       |
|  | 6  |  | <u> </u>  |  |  | Î       |
|  |  |  |   |  |  |         |
| 4'3"13   |  |  |   |  | $\sim$   | 5'0"9 — |
|  |  |  |   |  |  | 1       |
| =4X5(A2)   | A  |  |   |  | E≡3X7(B1   | )       |
| P  | B  | l<br>⊯1.5X4  | H<br>≡5X6   | G<br>∭1.5X4  |  | 1 1     |
|  |  |  |   |  |  |         |
| Ł  |  |  | 24'5"8  |  |  |         |
| L  | 7'11"4   | _L4'3"8  | 4'3"8   | -L- 7'1  | 1"4  | J       |
| Г  | 7'11"4   | 12'2"12  | 16'6"4  |  | 5"8  | 1       |
| Loading Criteria (psf)                             | Wind Criteria  | Snow Criteria (Pg,Pf in PSF)   | Defl/CSI Criteria   | ▲ Maximum  | Reactions (Ibs)  |         |
| TCLL: 21.00  | Wind Std: ASCE 7-10<br>Speed: 130 mph  | Pg: 30.0 Ct: 1.0 CAT: II   | PP Deflection in  | 0 000 000  | -  |         |
| TCDL: 18.00<br>BCLL: 0.00                          | Enclosure: Closed  | Pf: 21.0 Ce: 1.0<br>Lu: - Cs: not used   | VERT(LL): 0.061<br>VERT(TL): 0.216  | [/\ 100Z /\  | 92 /779 /- /115 /5.5<br>114 /890 /- /- /5.5            |         |
| BCDL: 10.00  | Risk Category: II<br>EXP: C  | Snow Duration: 1.15  | HORZ(LL): 0.027<br>HORZ(TL): 0.081  |  | ns based on MWFRS<br>Width Reg = 2.2                   |         |
| Des Ld: 49.00<br>NCBCLL: 10.00                     | Mean Height: 15.00 ft<br>TCDL: 6.0 psf   | Code / Misc Criteria   | Creep Factor: 1.5   | E Min Brg  | Width Req = 2.5  |         |
| Soffit: 0.00<br>Load Duration: 1.15                | BCDL: 6.0 psf  | Bldg Code: IBC 2012<br>TPI Std: 2007   | Max TC CSI: 0.9<br>Max BC CSI: 0.6  | 52   | & E are a rigid surface.                               |         |
| Spacing: 24.0 "                                    | MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft   | Rep Factors Used: Yes  | Max Web CSI: 0.2  | 209 Maximum T  | op Chord Forces Per Ply (lbs<br>ns.Comp. Chords Tens.  |         |
|  | Loc. from endwall: Any<br>GCpi: 0.18   | FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):   | Mfg Specified Can   | iber   | •  | - 2127  |
|  | Wind Duration: 1.60  | WAVE, HS   | VIEW Ver: 17.02.0   | 2C.0211.17 B-C 5   | 69 - 2040 E - F 83<br>69 - 2040                        | 0       |
| <b>Lumber</b><br>Top chord 2x4 DF-L 180            | 00f-1.5E :T2 2x4 HF #1&Bet.:   |  |   |  |  |         |
| Bot chord 2x4 HF #1&Be<br>Webs 2x4 :HF Standard    |  |  |   | Maximum E<br>Chords Ter  | ot Chord Forces Per Ply (lbs)                          |         |
| Loading  |  |  |   |  | 68 - 334 H - G 1740                                    | - 356   |
|  | or 10.00 psf non-concurrent<br>pplied per IBC-12 section   |  |   | I-H 17   | 60 - 334 G - E 1747                                    | - 356   |
| 1607.  |  |  |   |  | <b>Veb Forces Per Ply (lbs)</b><br>ns.Comp. Webs Tens. | Comp    |
| Overhang designed for 2<br>Truss designed for unba |  |  |   |  | 01 0 C-H 73  | - 500   |
| Purlins  |  |  |   | B-H 3  | 94 -72 D-G 294<br>10 -79                               | C       |
| n lieu of structural pane                          | Is use purlins to brace all flat   |  |   | H-D 4  | 10 - 79  |         |
| TC @ 24" oc.                                       |  |  |   |  |  |         |
| <b>Wind</b><br>Wind loads based on M\              | WFRS with additional C&C   |  |   |  |  |         |
| member design.                                     |  |  |   |  |  |         |
| Jplitts based on an elev                           | ation at or above 3000 ft.   |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  |  |  |   |  |  |         |
|  | **WARNING** READ AND FOLL  |  |   |  |  |         |
|  | T** FURNISH THIS DRAWING 1   | O ALL CONTRACTORS INCL   |   |  |  |         |
|  | care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safe   | ping, installing and bracing. R<br>ty practices prior to performing  | efer to and follow the<br>these functions. Ins  | e latest edition of BCSI (Build<br>stallers shall provide tempora  | ling<br>ary<br>efy                                     |         |
|  | T** FURNISH THIS DRAWING 1<br>care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safe<br>s noted otherwise top chord shall<br>cations shown for permanent late<br>tes to each face of truss and posi<br>dard plate positions. | ping, installing and bracing. R-<br>ty practices prior to performing<br>have properly attached structur<br>ral restraint of webs shall have<br>tion as shown above and on ft | efer to and follow the<br>these functions. Ins<br>al sheathing and bo<br>bracing installed pe<br>ne Joint Details. Unlo | e latest edition of BCSI (Build<br>stallers shall provide tempora<br>ttom chord shall have a prop<br>or BCSI sections B3, B7, or B<br>ess noted otherwise. Refer | ing<br>ary<br>eny<br>10,<br>to<br>Reno Truss.          |         |

It uss in conformance with ANS// IPI 1, or for handling, shipping, installation and bracing or trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.toinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org


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| Job Number: 180336<br>FROST ADDITION APN             | #055-081-83  |  | Ply: 1<br>Qty: 2                             | SEQN: 4128 /<br>FROM: DW                 | T39 / VAL                         | DRW:                             |               |
|--|--|--|--|--|-----------------------------------|----------------------------------|---------------|
| Truss Label: V1                                      |  |  | Wgt: 18.2 lbs                                |  |                                   | /                                | 02/26/2018    |
|  |  | 2'9"   |  | 5'6"1                                    |                                   |                                  |               |
|  |  | 2'9<br>2'9"  |  | 2'9"                                     |                                   |                                  |               |
|  |  | 20   |  | 20                                       |                                   |                                  |               |
|  |  | 12   |  |  |                                   |                                  |               |
|  | -  | 6  | <sup>B</sup> ≡4X4                            |  |                                   |                                  |               |
|  | ₽  | -22/4/D4)  |  |  |                                   |                                  |               |
|  | 1.4"12   | ≡3X4(D1)<br>A  |  | =3X4(D1)<br>C                            |                                   |                                  |               |
|  | <del>, ,</del>   |  |  |  |                                   |                                  |               |
|  | _ <u>+</u>   |  |  |  | F                                 |                                  |               |
|  |  |  | D ⊪1.5X4                                     |  | F                                 |                                  |               |
|  |  |  | D ⊪1.5∧4                                     |  |                                   |                                  |               |
|  |  | 1  |  |  | 1                                 |                                  |               |
|  |  | -  | — 5'6"1 ———                                  |  |                                   |                                  |               |
|  |  | · 2'9"   |  | 2'9"                                     |                                   |                                  |               |
|  |  | <u>29</u><br>2'9"  |  | 5'6"1                                    |                                   |                                  |               |
| Loading Criteria (psf)                               | Wind Criteria  | Snow Criteria (Pg,Pf in PSF)   | Defl/CSI Criteria                            |  |                                   | Reactions (lbs), o               |               |
| TCLL: 21.00<br>TCDL: 18.00                           | Wind Std: ASCE 7-10<br>Speed: 130 mph  | Pg: 30.0 Ct: 1.0 CAT: II<br>Pf: 21.0 Ce: 1.0   | PP Deflection in<br>VERT(LL): 0.003          |  | Loc R /U                          | / Rw / Rh /                      |               |
| BCLL: 0.00   | Enclosure: Closed  | Lu: - Cs: not used   | VERT(LL): 0.003                              |  | E* 104 / 3<br>Wind reaction:      | / 54 /- /<br>s based on MWFF     |               |
| BCDL: 10.00  | Risk Category: II<br>EXP: C  | Snow Duration: 1.15  | HORZ(LL): -0.001<br>HORZ(TL): -0.004         |  | E Min Brg W<br>Bearing A is a     |                                  |               |
| Des Ld: 49.00<br>NCBCLL: 10.00                       | Mean Height: 15.00 ft<br>TCDL: 6.0 psf   | Code / Misc Criteria   | Creep Factor: 1.5                            |  | -                                 | -                                |               |
| Soffit: 0.00<br>Load Duration: 1.15                  | BCDL: 6.0 psf  | Bldg Code: IBC 2012<br>TPI Std: 2007   | Max TC CSI: 0.1<br>Max BC CSI: 0.1           |  | Maximum Top<br>Chords Tens        | p Chord Forces I<br>.Comp. Chord |               |
| Spacing: 24.0 "                                      | MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft   | Rep Factors Used: Yes  | Max Web CSI: 0.0                             | 063                                      | A - B 151                         |                                  | 151 - 52      |
|  | Loc. from endwall: Any<br>GCpi: 0.18   | FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):   | Mfg Specified Car                            |  | Movimum Bo                        | t Chord Forces F                 | or Dhy (lba)  |
|  | Wind Duration: 1.60  | WAVE   | VIEW Ver: 17.02.                             | 02C.0211.17                              | Chords Tens                       |                                  | s Tens. Comp. |
| Lumber<br>Top chord 2x4 HF #1&B                      | et.  |  |  |  | A - D 97                          | 7 -91 D-C                        | 97 - 91       |
| Bot chord 2x4 HF #1&Be<br>Webs 2x4 :HF Standard      | et.  |  |  |  |                                   | b Forces Per Ply                 | (lbs)         |
| Loading  |  |  |  |  |                                   | .Comp.                           |               |
| Bottom chord checked for                             | or 10.00 psf non-concurrent  |  |  |  | B - D 172                         | 2 - 249                          |               |
| bottom chord live load a 1607.                       | pplied per IBC-12 section  |  |  |  |                                   |                                  |               |
| Truss designed for unba                              | lanced snow loads.   |  |  |  |                                   |                                  |               |
| Wind   |  |  |  |  |                                   |                                  |               |
| member design.                                       | WFRS with additional C&C   |  |  |  |                                   |                                  |               |
| Uplifts based on an elev                             | ation at or above 3000 ft.   |  |  |  |                                   |                                  |               |
| Additional Notes                                     | 14 for vallov dotaila  |  |  |  |                                   |                                  |               |
| See DWG VAL1601010                                   | 14 IOF Valley details.   |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
|  |  |  |  |  |                                   |                                  |               |
| **IMPORTAN   | T** FURNISH THIS DRAWING T   | OW ALL NOTES ON THIS DR  | LIDING THE INSTA                             | LI ERS                                   |                                   |                                  |               |
| russes require extreme<br>Component Safety Inform    | care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safe   | ping, installing and bracing. Re   | efer to and follow th<br>these functions. In | e latest edition o<br>stallers shall pro | f BCSI (Buildin<br>vide temporary | g<br>l                           |               |
| racing per BCSI. Unless<br>ttached rigid ceiling. Lo | care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safe<br>i noted otherwise, top chord shall h<br>cations shown for permanent late<br>tes to each face of truss and posit<br>dard plate positions. | nave properly attached structur<br>ral restraint of webs shall have  | al sheathing and bo<br>bracing installed po  | ottom chord shall<br>er BCSI sections    | have a proper<br>B3, B7, or B1(   | ly<br>D,                         |               |
| rawings 160A-Z for stan                              | dard plate positions.  | shall not be responsible for any<br>oping, installation and bracing o<br>onal engineering responsib<br>nosibility of the Building Desi |  |  |                                   | Ren                              | Truss, Inc.   |
| ning a division of 1714/                             |  |  |  |  |                                   |                                  |               |

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| Job Number: 180336<br>FROST ADDITION APN<br>Truss Label: V2  | #055-081-83   |  | Ply: 1<br>Qty: 2<br>Wgt: 36.4 lbs   | SEQN: 4130 / T38 / VAI<br>FROM: DW  | DRW:  | (  | 02/26/2018                           |
|--|---|--|---|---|---|--|--------------------------------------|
|  | <del>-</del>  | <u>4'</u><br>4' - -  | + <mark>5′6"1</mark>  <br>9"+ <br>9"+   =   | 9'6"1<br>4'   |   |  |                                      |
|  |   | 6 12<br>11.5X4 B<br>3X4(D1)<br>1.5X4H  | C≡4X4<br>D    1.5X4<br>G F    1.5X4   | =3X4(D1)<br>E   | I   |  |                                      |
|  | <br>  | 4'   | 9'6"1   | 4'<br>9'6"1   |   |  |                                      |
| Loading Criteria (psf)           TCLL:         21.00           TCDL:         18.00           BCLL:         0.00           BCDL:         10.00           Des Ld:         49.00           NCBCLL:         10.00                                      | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf  | Snow Criteria (Pg,Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0         Lu: -         Cs: not used           Snow Duration: 1.15         Code / Misc Criteria         Dial of the sector        | Defl/CSI Criteria<br>PP Deflection in I<br>VERT(LL): 0.009<br>VERT(TL): 0.026<br>HORZ(LL): -0.003<br>HORZ(TL): -0.010<br>Creep Factor: 1.5                                      | Oc L/defl         L/#         Loc R           F         999         360         I* 105           F         999         240         Wind rea           F         -         I         Min           F         -         I         Min           F         -         -         Bearing J | /5 /57<br>actions based<br>Brg Width Red<br>A is a rigid sur                        | / Rh / RL<br>/- /5<br>on MWFRS<br>g = -<br>face. | / W<br>/ 114                         |
| Soffit: 0.00<br>Load Duration: 1.15<br>Spacing: 24.0 "   | BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60  | Bldg Code: IBC 2012<br>TPI Std: 2007<br>Rep Factors Used: Yes<br>FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):<br>WAVE  | Max TC CSI: 0.2<br>Max BC CSI: 0.1<br>Max Web CSI: 0.0<br>Mfg Specified Carr<br>VIEW Ver: 17.02.0   | 21 Chords<br>87 A - B<br>B- C   | m Top Chord<br>Tens.Comp.<br>286 - 124<br>189 - 10                                  | Chords<br>C - D<br>D - E                         | Tens. Comp<br>189 - 10<br>286 - 12   |
| Lumber<br>Fop chord 2x4 HF #1&B<br>Bot chord 2x4 HF #1&Be<br>Webs 2x4 :HF Standard   | let.<br>et.   |  |   | Waxinta   | m Bot Chord<br>Tens.Comp.<br>156 - 178<br>165 - 185                                 | G - F<br>F - E                                   | Tens. Comp<br>165 - 18<br>156 - 17   |
| Loading<br>Sottom chord checked f<br>bottom chord live load a<br>1607.<br>Fruss designed for unba<br>Wind<br>Wind loads based on M<br>nember design.   | or 10.00 psf non-concurrent<br>pplied per IBC-12 section<br>alanced snow loads.<br>WFRS with additional C&C<br>ration at or above 3000 ft.  |  |   |   | m Web Force<br>Tens.Comp.<br>238 - 385<br>0 - 105                                   | s Per Ply (Ib<br>Webs<br>F - D                   | <b>is)</b><br>Tens. Comp<br>238 - 38 |
|  |   |  |   |   |   |  |                                      |
|  | **WARNING** READ AND FOLL<br>T** FURNISH THIS DRAWING T<br>care in fabricating handling shing   |  |   |   | Suilding  |  |                                      |
| Insert require exiterine<br>omponent Safety Inform<br>racing per BCSI. Unless<br>ttached rigid ceiling. Lo<br>s applicable. Apply pla<br>rawings 160A-Z for star<br>Ipine, a division of ITW<br>uss in conformance with<br>sting this drawing. Inc | TT** FURNISH THIS DRAWING 1<br>care in fabricating, handling, shipp<br>nation, by TPI and SBCA) for safet<br>s noted otherwise top chord shall h<br>tocations shown for permanent later<br>tes to each face of truss and positi<br>ndard plate positions.<br>Building Components Group Inc. s<br>h ANS//TPI 1, or for handling, ship<br>licates acceptance of professie<br>ing for any structure is the responents. | y practices prior to performing<br>lave properly attached structur<br>al restraint of webs shall have<br>ion as shown above and on th<br>shall not be responsible for any<br>ping, installation and bracing o<br><b>onal engineering responsib</b> | these functions. Ins<br>al sheathing and both<br>bracing installed per<br>le Joint Details, unle<br>deviation from this<br>of trusses A seal on<br><b>lity solely for the</b> c | tailers shall provide tem<br>tailers shall provide tem<br>trom chord shall have a p<br>r BCSI sections B3, B7, c<br>ess noted otherwise. R<br>drawing,any failure to bu<br>this drawing or cover b<br>lesign shown. The si  | porary<br>porary<br>properly<br>or B10,<br>efer to<br>ild the<br>page<br>uitability | RenoT  | russ, Inc.                           |

Insting this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

| Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):<br>WAVEMfg Specified Camber:<br>Plate Type(s):<br>VIEW Ver: 17.02.02C.0211.17B - C1640D - E192- 7Maximum Bot Chord Forces Per Ply (Ibs)<br>Chords Tens. Comp.Maximum Bot Chord Forces Per Ply (Ibs)<br>Tens. Comp.Maximum Bot Chord Forces Per Ply (Ibs)<br>Tens. Comp.Maximum Bot Chord Forces Per Ply (Ibs)<br>Tens. Comp.LumberChord 2x4 HF #1&Bet.<br>Bot chord 2x4 HF #1&Bet.<br>Webs 2x4 :HF Standard + HF Stud:   | Job Number: 180336<br>FROST ADDITION API<br>Truss Label: V3  | N#055-081-83   |   | Ply: 1         SEQN: 4132           Qty: 2         FROM: DW           Wgt: 49.0 lbs         FROM: DW   | / T37 / VAL   | DRW:<br>/  | 02/26/2018  |
|--|--|--|---|--|---|--|---|
| $\frac{1}{100} \frac{1}{100} \frac{1}$ |  |  |   |  |   |  |   |
| $\frac{4'}{4'} + \frac{29'}{96'} + \frac{29'}{96'} + \frac{29'}{96'} + \frac{4'}{136''} + \frac{4'}{136''} + \frac{4'}{136''} + \frac{4'}{136''} + \frac{29'}{96''} + \frac{4'}{136''} + \frac{4'}{136'''} + \frac{4'}{136'''} + \frac{4'}{13$   |  | <br>27<br>47<br>16<br>1 = 3X4(D1) ∕  | B   1.5X4 B   |  | =3)   | (4(D1)   |   |
| 4'         6'g*         9'6'1         1'3'6'1           Loading Criteria (ps)<br>(C1L: 21:00         Wind Criteria<br>Wind Std: ASCE 7-10<br>Stoll: 6:00         Snow Criteria (Pg,Pf in PSF,<br>Pg: 30. Ct 1:0 CAT: II<br>PD Election in loc L/def L/#<br>PD Elect  |  | <b> </b> •   |   | — 13'6"1 ————  |   |  |   |
| CIL:       21.00       Wind Std: ASCE 7-10       Speed: 130 mph       Pg: 30.0 Ct: 1.0 CAT: II       PP Deflection in loc L/defl L/#       I/E       PR       N/E       //W         COL:       10.00       Enclosure: Closed       Risk Category: II       PS: 20.0 Ct: 1.0 CAT: II       PP Deflection in loc L/defl L/#       I/E       PD Deflection in loc L/defl L/#       I/E       PO Deflection in loc L/defl L/#       I/E       PO Deflection in loc L/defl L/#       I/E       PO Deflection in loc L/defl L/#       I/E       PD Deflection in loc L/deflection in loc L/deflection       I/E       PD Deflection in loc L/deflection       I/E       I/E       PD Deflection       I/E  |  |  |   |  |   |  |   |
| Wind Duration: 1.60       WAVE       VIEW Ver: 17.02.02C.0211.17       Maximum Bot Chord Forces Per Ply (lbs)         Lumber       Chords Tens. Comp.       Chords Tens. Comp.       Chords Tens. Comp.         Bot chord 2x4 HF #18Bet.       Bot chord 2x4 HF #18Bet.       A - H       94       -91       G - F       102       -10         Bot chord 2x4 HF #18Bet.       Webs 2x4 :HF Standard + HF Stud:       Maximum Web Forces Per Ply (lbs)       Method 1 - 94       -91       G - F       94       -91         Loading       Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IBC-12 section 1607.       Webs       Tens. Comp.       Webs       Tens. Comp.         B - H       214       -431       F - D       214       -433         Mind       Wind loads based on MWFRS with additional C&C member design.       Uplifts based on an elevation at or above 3000 ft.       Additional Notes   | TCLL: 21.00<br>TCDL: 18.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 49.00<br>NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.15   | Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any | Pg: 30.0 Ct: 1.0 CAT: II<br>Pf: 21.0 Ce: 1.0<br>Lu: - Cs: not used<br>Snow Duration: 1.15<br><b>Code / Misc Criteria</b><br>Bldg Code: IBC 2012<br>TPI Std: 2007<br>Rep Factors Used: Yes<br>FT/RT/PT:10(0)/3(0)/1(0) | PP Deflection in loc L/defl L/#<br>VERT(LL): 0.008 F 999 360<br>VERT(TL): 0.024 F 999 240<br>HORZ(LL): -0.003 F<br>HORZ(TL): -0.010 F<br>Creep Factor: 1.5<br>Max TC CSI: 0.264<br>Max BC CSI: 0.109<br>Max Web CSI: 0.090 | Loc R /U<br>I* 103 / 6<br>Wind reaction<br>I Min Brg V<br>Bearing A is a<br>Maximum Top<br>Chords Tens<br>A - B 192 | / Rw / Rh /<br>/ 58 / - /<br>s based on MWF<br>Vidth Req = -<br>rigid surface.<br>p Chord Forces<br>.Comp. Chord<br>2 - 76 C - D | <u>YRL</u> /W<br>YS /162<br>RS<br>Per Ply (Ibs)<br>ds Tens. Comp.<br>164 -9 |
| Including<br>Solution 2x4 HF #1&Bet.<br>Solution chord 2x4 HF #1&Bet. $A - H  94  -91  G - F  102  -10$<br>$H - G  102  -102  F - E  94  -9$ Image: Solution chord 2x4 HF #1&Bet.<br>Webs 2x4 :HF Standard + HF Stud: $A - H  94  -91  G - F  102  -10$<br>$H - G  102  -102  F - E  94  -9$ Image: Solution chord checked for 10.00 psf non-concurrent<br>solution chord live load applied per IBC-12 section<br>$607.$<br>Truss designed for unbalanced snow loads.Maximum Web Forces Per Ply (lbs)<br>Webs Tens. Comp.<br>$B - H  214  -431  F - D  214  -431$<br>$C - G  51  -271  -214  -431$<br>$C - G  51  -271  -214  -431$<br>Wind loads based on MWFRS with additional C&C<br>nember design.Juifts based on an elevation at or above 3000 ft.Madditional NotesNetsenderMathematical action at or above 3000 ft.  | umber  |  |   | VIEW Ver: 17.02.02C.0211.17  |   |  |   |
| Loading       Maximum Web Forces Per Ply (lbs)         Bottom chord checked for 10.00 psf non-concurrent pooton chord live load applied per IBC-12 section       Webs       Tens. Comp.       Webs       Tens. Comp.         IGO7.       B - H       214       -431       F - D       214       -433         If russ designed for unbalanced snow loads.       C - G       51       -271       -433         Wind       Nodes based on MWFRS with additional C&C nember design.       Jplifts based on an elevation at or above 3000 ft.       Jplifts based on an elevation at or above 3000 ft.   | Fop chord 2x4 HF #1&<br>Bot chord 2x4 HF #1&E  | Bet.   |   |  | A-H 94  | 4 -91 G-F  | 102 - 102   |
|  | Loading<br>Bottom chord checked<br>bottom chord live load<br>1607.<br>Truss designed for unb<br>Wind<br>Wind loads based on M<br>nember design.<br>Jplifts based on an ele<br>Additional Notes | for 10.00 psf non-concurrent<br>applied per IBC-12 section<br>valanced snow loads.<br>/WFRS with additional C&C<br>evation at or above 3000 ft.  |   |  | Webs Tens<br>B - H 214  | .Comp. Webs<br>4 - 431 F - D   | Tens. Comp.   |
|  |  | 014 for valley details.  |   |  |   |  |   |

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| Job Number: 180336<br>FROST ADDITION APN<br>Truss Label: V4  | #055-081-83   |   | -  | SEQN: 4134 / T36 / VAL<br>FROM: DW  | DRW:<br>/ 02/26/2018   |
|--|---|---|--|---|--|
|  | <del>- 4'</del><br>4'   | <mark>≈ = 8'</mark><br>4'   | <mark>9'6"1</mark><br>8'9" 13'6<br>9"   - 13'6<br>9"   - 4'  | 5°1  - 17'6"1<br>4'   |  |
|  |   | Ш1.5X4 С<br>11.5X4 В<br>L Ш1.5X4 Ш1.5X4 К   |  | F    1.5X4<br>B = 3X<br>H    1.5X4  | <sup>(4(D1)</sup>  |
|  | +   | = = 4'<br>8'  | - 17'6"1<br>   |   | <b>-</b>   |
| Loading Criteria (psf)<br>TCLL: 21.00<br>TCDL: 18.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 49.00<br>NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.15<br>Spacing: 24.0 "  | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60   | Snow Criteria (Pg,Pf in PSF)           Pg: 30.0 Ct: 1.0 CAT: II           Pf: 21.0 Ce: 1.0           Lu: - Cs: not used           Snow Duration: 1.15           Code / Misc Criteria           Bldg Code: IBC 2012           TPI Std: 2007           Rep Factors Used: Yes           FT/RT/PT:10(0)/3(0)/1(0)           Plate Type(s):           WAVE | Defl/CSI Criteria<br>PP Deflection in Io<br>VERT(LL): 0.005 I<br>VERT(TL): 0.017 I<br>HORZ(LL): -0.002 I<br>HORZ(TL): -0.007 I<br>Creep Factor: 1.5<br>Max TC CSI: 0.29<br>Max BC CSI: 0.10<br>Max Web CSI: 0.13<br>Mfg Specified Caml | L/#         Loc R         / U           999         360         M* 102         / 6           999         240         Wind reaction         Min Brg V           H         -         -         Bearing A is a           H         -         -         Bearing A is a           Maximum To         Chords Tens         Bearing           V9         A - B         16           Dec:         B - C         19 | /59 /- /5 /210<br>ns based on MWFRS<br>Width Req = -<br>a rigid surface.<br><b>op Chord Forces Per Ply (lbs)</b><br>s.Comp. Chords Tens. Comp<br>37 -93 D-E 162<br>30 -22 E-F 190 -3 |
| Lumber<br>Top chord 2x4 HF #1&B<br>Bot chord 2x4 HF #1&Ba<br>Webs 2x4 :HF Standard<br>Loading<br>Bottom chord checked fi   | et.<br>+ HF Stud:<br>or 10.00 psf non-concurrent  |   |  | Chords Tens<br>A - L 10<br>L - K 11<br>K - J 11   | 16 - 116 - 10<br>14 - 95 I - H 114 - 9<br>16 - 100 H - G 106 - 8   |
| 1607.<br>Truss designed for unba<br><b>Wind</b><br>Wind loads based on MV<br>member design.  | pplied per IBC-12 section<br>Ilanced snow loads.<br>WFRS with additional C&C<br>ation at or above 3000 ft.  |   |  | Webs Tens<br>B-L 20<br>C-K 23   | eb Forces Per Ply (Ibs)<br>s.Comp. Webs Tens. Comp<br>14 - 439 I - E 233 - 41<br>13 - 414 H - F 204 - 43<br>13 - 164   |
| See DWG VAL1601010   | 14 for valley details.  |   |  |   |  |
|  |   |   |  |   |  |
| **IMPORTAN<br>russes require extreme<br>component Safety Inform<br>raching per BCSI. Unless<br>ttached rigid ceiling. Lo<br>s applicable. Apply pla<br>rawings 160A-Z for star | **WARNING** READ AND FOL<br>T** FURNISH THIS DRAWING<br>care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safe<br>s noted otherwise top chord shall<br>locations shown for permanent late<br>tes to each face of truss and posi-<br>idard plate positions.<br>Building Components Group Inc.<br>h ANSI/TPI 1, or for handling, shi<br>licates acceptance of profess<br>ng for any structure is the resp | ping, installing and bracing. R<br>ty practices prior to performing<br>have properly attached structur<br>ral restraint of webs shall have<br>tion as shown above and on th   | UDING THE INSTAL<br>efer to and follow the<br>these functions. Inst<br>al sheathing and bott<br>bracing installed per<br>ne Joint Details, unle  | latest edition of BCSI (Buildi<br>allers shall provide temporal<br>om chord shall have a prope<br>BCSI sections B3, B7, or B1<br>ss noted otherwise. Refer t  | ng<br>Yy<br>0,<br>to<br>Reno Truss, Inc.   |

| Job Number: 180336<br>FROST ADDITION APN:<br>Truss Label: V5  | #055-081-83  |   | Ply: 1<br>Qty: 1<br>Wgt: 91.0 lbs   | SEQN: 4137 / T<br>FROM: DW   | 35 / VAL  | DRW:<br>/                              | (                               | )2/26/20 <sup>-</sup> | 18                   |
|---|--|---|---|--|---|--|---------------------------------|-----------------------|----------------------|
|   | <del>- 4' - -</del>  | 8' <u>10'9"</u><br>4' 2'9"  | - - 13'6"1<br>2'9"  | <mark>⊧ - 17'6"1</mark><br>4'  |   | 21'6"1<br>4'                           | <del>-</del> -                  |                       |                      |
| т   | -  | 4 25  | D <sub>≡4X4</sub>   | -  |   | -                                      |                                 |                       |                      |
| 5'4'12  | 6 12<br>6 3X4(D1)<br>A   | ₩1.5X4 C  |   | E III1.5X4   | F ⊯1.5  |  | 3X4(D1)                         |                       |                      |
| ± -   | ₩ L ₩1.5   | X4 K III1.5X4   | J≡5X5   | I Ⅲ1.5X4   | H    1.5)   | (4                                     | M                               |                       |                      |
|   | <b> -</b>  |   | - 21'6"1  |  |   |  |                                 |                       |                      |
|   | <del>- 4' - -</del><br>4' - -  | 4' <u>2'9"</u><br>8' <del> </del> 10'9"   | 2'9"<br>- - 13'6"1  | - - 4'<br>17'6"1   |   | 4'<br>21'6"1                           |                                 |                       |                      |
| Loading Criteria (psf)           TCLL:         21.00           TCDL:         18.00           BCLL:         0.00           BCDL:         10.00           Des Ld:         49.00 | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft  | Snow Criteria (Pg,Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0         Lu: -           Lu: -         Cs: not used         Snow Duration: 1.15 | Defl/CSI Criteria<br>PP Deflection in<br>VERT(LL): 0.006<br>VERT(TL): 0.018<br>HORZ(LL): 0.002<br>HORZ(TL): 0.006<br>Creep Factor: 1.5  | Ioc L/defl         L/#         L           L         999         360         N           L         999         240         V           L         -         -         N           L         -         -         N           L         -         -         N           L         -         -         N           L         -         -         N | Maximum I<br>oc R / U<br>1* 102 / 6<br>Vind reaction<br>M Min Brg V<br>Bearing A is a | / Rw<br>/ 59<br>s based c<br>Vidth Req | / Rh / RL<br>/- / 6<br>on MWFRS |                       |                      |
| NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.15  | TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2  | Bldg Code: IBC 2012<br>TPI Std: 2007  | Max TC CSI: 0.2<br>Max BC CSI: 0.7  | 251 <b>N</b><br>109 <u>C</u>   | Maximum To<br>Chords Tens   |  |                                 | Ply (lbs)<br>Tens. C  |                      |
| Spacing: 24.0 "   | C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60   | Rep Factors Used: Yes<br>FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):<br>WAVE   | Max Web CSI: 0.<br>Mfg Specified Car  | mber:  | A - B 11<br>B - C 14<br>C - D 18  | 3 - 46                                 | D - E<br>E - F<br>F - G         | 183<br>143<br>119     | - 46<br>- 46<br>- 83 |
| Lumber<br>Top chord 2x4 HF #1&B   | et.  |   |   | N  | Maximum Bo<br>Chords Tens   |  | Forces Per<br>Chords            | Ply (Ibs)<br>Tens. C  |                      |
| Bot chord 2x4 HF #1&Be<br>Webs 2x4 :HF Standard<br><b>_oading</b>   |  |   |   | L  | V-L 9<br>V-K 10<br>V-J 10   | 6 - 80                                 | J - I<br>I - H<br>H - G         | 108<br>106<br>99      | - 84<br>- 80<br>- 73 |
| Bottom chord checked for  | or 10.00 psf non-concurrent<br>pplied per IBC-12 section   |   |   |  | <b>laximum We</b><br>Vebs Tens  | <b>b Forces</b><br>.Comp.              | <b>9 Per Ply (lb</b><br>Webs    | <b>is)</b><br>Tens. C | Comp.                |
| Truss designed for unba<br>Wind<br>Wind loads based on MV<br>member design.   | WFRS with additional C&C   |   |   | –<br>E<br>C  | 8-L 19<br>C-K 20  | 9 - 362                                | I-Е<br>Н-F                      | 209<br>199            | - 440<br>- 362       |
| Additional Notes<br>See DWG VAL16010101   | ation at or above 3000 ft.<br>14 for valley details.   |   |   |  |   |  |                                 |                       |                      |
|   |  |   |   |  |   |  |                                 |                       |                      |
|   |  |   |   |  |   |  |                                 |                       |                      |
|   |  |   |   |  |   |  |                                 |                       |                      |
|   |  |   |   |  |   |  |                                 |                       |                      |
|   | *WARNING** READ AND FOLL   |   |   |  |   |  |                                 |                       |                      |
| **IMPORTAN<br>usses require extreme<br>omponent Safety Inform<br>racing per BCSI. Unless<br>tached rigid ceiling. Lo<br>s applicable. Apply pla<br>awings 160A-7 for stan     | T** FURNISH THIS DRAWING T<br>care in fabricating, handling, shipp<br>ration, by TPI and SBCA) for safet<br>noted otherwise, top chord shall h<br>cations shown for permanent later<br>tes to each face of truss and positi<br>dard plate positions. | O ALL CONTRACTORS INCL<br>sing, installing and bracing. Re<br>y practices prior to performing<br>ave properly attached structur<br>al restraint of webs shall have<br>on as shown above and on th | UDING THE INSTA<br>fer to and follow th<br>these functions. In<br>al sheathing and bc<br>bracing installed pa-<br>le Joint Details, unl | ALLERS<br>e latest edition of<br>stallers shall prov<br>ottom chord shall h<br>er BCSI sections f<br>less noted otherw   | BCSI (Buildir<br>ide temporar<br>have a prope<br>33, B7, or B1<br>ise. Refer t        | ng<br>y<br>fly<br>0,<br>o              | RenoT                           | russ.I                | nc.                  |
| pine, a division of ITW<br>lss in conformance with<br>sting this drawing, ind<br>nd use of this drawi   | ANSI/TPI 1, or for handling, ship<br>ANSI/TPI 1, or for handling, ship<br>leates acceptance of professie<br>ng for any structure is the respo<br>bb's general notes page and these web site  | hall not be responsible for any<br>ping, installation and bracing o<br>phal engineering responsib<br>nsibility of the Building Des  | deviation from this<br>of trusses <b>A seal on</b><br>ility solely for the<br>igner per ANSI/TPI  | a drawing, any failu<br>this drawing or<br>design shown.<br>I 1 Sec.2.   | re to build the<br>cover page<br>The suitabi  | e<br>lity                              |                                 |                       |                      |

| +<br> <br> <br> <br>  | $\frac{1'11'12}{1'11'12} + \frac{3'11''12}{2'} + \frac{6'2'10}{2'2'13}$   |   | 10'5"7 <u>12'5"3</u><br>2' 1'11"12  | 4   | 1   |   | 02/26/201   | B  |
|---|---|---|---|---|---|---|---|--|
| +<br> <br> <br> <br> <br>   | <u>1'11"12 <sup>+</sup> 2' <sup>+</sup> 2'2"13</u>  | 2'2"13  |   | 4   |   |   |   |  |
| 0<br>1  | 13.42 12 B<br>B   | B   | r<br>B  |   |   |   |   |  |
| =3X4(D1)  | 0 N   | M L K   | J<br>2 1 1'11'12  | =3X4(D1)<br>\_<br>-   |   |   |   |  |
| /ind Criteria   |   |   |   | Maximum F   | Reactions   | (lbs), or *:  | =PLF  |  |
| ind Std: NA<br>peed: NA mph<br>nclosure: NA<br>ategory: NA<br>XP: NA  | Pg: 30.0 Ct: - CAT: -<br>Pf: 21.0 Ce: -<br>Lu: - Cs: -<br>Snow Duration: -  | PP Deflection in I<br>VERT(LL): 0.000<br>VERT(TL): 0.000<br>HORZ(LL): 0.000   | oc L/defi L/# <u>L</u><br>360 A<br>O 999 240 A<br>B   | oc R /U<br>* 2 /-<br>Min Brg V  | / Rw<br>/ -<br>Vidth Req  | /Rh /RL<br>/- /-<br>= -   |   |  |
| lean Height: NA ft<br>CDL: NA psf   | Code / Misc Criteria  | Creep Factor: 1.5   | M   |   |   |   |   | nmn  |
| CDL: NA psf<br>IWFRS Parallel Dist: NA  | TPI Std: 2007   | Max BC CSI: 0.0   | 01 A  | - B   | 1 0   | E-F   | 0   |  |
| &C Dist a: NA ft<br>oc. from endwall: NA<br>NA GCpi: NA   | FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):  | Mfg Specified Can   | nber: C   | - D   | 1 -1  | F - G<br>G - H<br>H - I   | 1<br>1<br>1   | <br><br>(  |
| /ind Duration: NA   | WAVE  | VIEW Ver: 17.02.0   | M   |   |   |   |   |  |
|   |   |   | _   |   |   |   |   | omp<br>(   |
|   |   |   | N   | - M (   | 0 0   | K - J<br>J - I  | 0<br>0  | (  |
| as noted.   |   |   |   |   |   |   |   |  |
| sed in place of purlins on<br>lat top chord of hip  |   |   | <u> </u>  |   |   |   |   | omp<br>· -   |
| HIPFRAME1014 or<br>al information.  |   |   | С   | -N (  | ) -2  | Г-G<br>J-H  | 0<br>0  | -2<br>-2   |
|   |   |   |   |   |   |   |   |  |
| FURNISH THIS DRAWING TO<br>re in fabricating, handling, shipp<br>ion, by TPI and SBCA) for safety<br>oled otherwise top chord shall ha<br>tions shown for permanent latera<br>to each face of truss and position<br>of plate positions. | D ALL CONTRACTORS INCLU<br>ing, installing and bracing. Re<br>practices prior to performing<br>ave properly attached structurar<br>al restraint of webs shall have<br>on as shown above and on th | UDING THE INSTA<br>fer to and follow the<br>these functions. Ins<br>al sheathing and bo<br>bracing installed pe<br>e Joint Details, unl   | e latest edition of f<br>stallers shall provi<br>ttom chord shall h<br>r BCSI sections B<br>ess noted otherwi             | BCSI (Buildir<br>de temporar<br>ave a proper<br>3, B7, or B1<br>se. Refer to<br>re to build the   | ng<br>Y<br>Ny<br>D,<br>D  | RenoT   | russ, In  | с,   |
|   | ARNING** READ AND FOLLO FURNISH THIS DRAWING TO re in fabricating, handling, shipp ites acceptance of professio   | ARNING**       READ AND FOLLOW ALL NOTES ON THIS DR         ARNING**       READ AND FOLLOW ALL NOTES ON THIS DR         Further and the store of purplices of portions.       Store of purplices of purplices of purplices of portions. | AminG**       READ AND FOLLOW ALL NOTES ON THIS DRAWING!         AminG**       READ AND FOLLOW ALL NOTES ON THIS DRAWING! | Image: Contract in the second state of the second state | Image: Section of the section of th | Image: Contract of the second seco | Amount       Amount | Image: the set of the s |

| ob Number: 180336<br>ROST ADDITION APN<br>russ Label: LG2   | #055-081-83   |   | Ply: 1<br>Qty: 2<br>Wgt: 60.2 lbs   | SEQN: 4141 / T22 / HIP_<br>FROM: DW  | DRW:<br>/  | 02/26/2018                                 |
|---|---|---|---|--|--|--|
|   | Ţ   | <u>⊧ 1'11'12</u> + 3'11'12 +<br>1'11'12 + 2' +  | 4'11'14<br>10'1 → 7'11'15<br>10'1 → 7'11'15<br>2'<br>D=4X4<br>E   | + 911*11<br>+ 111*12   |  |  |
|   |   | =3X4(D1)<br>L K   |   | Р<br>=3Х4(D1)<br>Н   |  |  |
|   |   | + <br> +1'11"12 + +2'<br>1'11"12 + +3'11"12 +   | 9'11"11<br><u>10"1   2'</u><br>4'11"14   7'11"15<br>  5'11"15   |  |  |  |
| Coading Criteria         (psf)           TCLL:         21.00           TCDL:         18.00           GCLL:         0.00           GCLL:         10.00           GCL:         10.00           GDL:         10.00 | Wind Criteria<br>Wind Std: NA<br>Speed: NA mph<br>Enclosure: NA<br>Category: NA<br>EXP: NA  | Snow Criteria         (Pg,Pf in PSF)           Pg: 30.0         Ct: -         CAT: -           Pf: 21.0         Ce: -         Lu: -         Cs: -           Lu: -         Cs: -         Snow Duration: -         Snow Duration: - | Defl/CSI Criteria<br>PP Deflection in<br>VERT(LL): 0.000<br>VERT(TL): 0.000<br>HORZ(LL): 0.000<br>HORZ(TL): -0.000                    | Loc L/defi L/#         Loc R         / U           -         -         360         A* 2         / -           L         999         240         A         Min Brg N           -         -         -         Bearing A is a | Reactions (lbs), or           / Rw         / Rh         / F           / -         / -         / -         / -           / I         / -         / -         / -           / Width Req =         -         -         -           a rigid surface.         -         -         - | RL / W                                     |
| JCBCLL: 0.00<br>JCBCLL: 0.00<br>Soffit: 0.00<br>Joad Duration: 1.15<br>Spacing: 24.0 "  | Mean Height: NA ft<br>TCDL: NA psf<br>BCDL: NA psf<br>MWFRS Parallel Dist: NA<br>C&C Dist a: NA ft<br>Loc. from endwall: NA<br>I: NA GCpi: NA<br>Wind Duration: NA  | Code / Misc Criteria<br>Bldg Code: IBC 2012<br>TPI Std: 2007<br>Rep Factors Used: No<br>FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):<br>WAVE  | Creep Factor: 1.5<br>Max TC CSI: 0.0<br>Max BC CSI: 0.0<br>Max Web CSI: 0.0<br>Mfg Specified Car                                      | Maximum To       001     Chords Tens       001     A - B       001     B - C       nber:     C - D   | P Chord Forces P           s.Comp.         Chords           1         0         D - E           1         -1         E - F           0         0         F - G           ot         Chord Forces P   | <u>5 Tens. Comp</u><br>0 (<br>1 - 1<br>1 ( |
| Lumber<br>Top chord 2x4 HF #1&B<br>Bot chord 2x4 HF #1&Be<br>Vebs 2x4 :HF Standard<br>Plating Notes   | et.   |   |   | L - K  | s.Comp. Chords<br>0 0 J - I<br>0 0 I - H<br>0 0 H - G  | <u>5 Tens. Comp</u><br>0 (<br>0 (<br>0 (   |
| All plates are 1.5X4 exce   | ept as noted.   |   |   | <b>Maximum Ga</b><br>Gables Tens   | able Forces Per Pl<br>s.Comp. Gables   | <b>y (Ibs)</b><br>5 Tens. Comp             |
| Additional Notes<br>This "Hip Frame" may be<br>he hip plane to brace th<br>russes. See detail draw<br>IIPFR1801014 for addit  | ing HIPFRAME1014 or   |   |   | C - K  | 0 -2 I-E<br>0 -2 H-F<br>0 -1   | 0 -2<br>0 -2                               |
|   |   |   |   |  |  |  |
|   |   |   |   |  |  |  |
|   |   |   |   |  |  |  |
| **IMPORTAN<br>usses require extreme<br>omponent Safety Inform<br>acing per BCSI. Unless<br>tached rigid ceiling. Lo<br>s applicable. Apply pla<br>awings 160A-Z for stan  | T** FURNISH THIS DRAWING<br>care in fabricating, handling, shi<br>nation, by TPI and SBCA) for saf<br>noted otherwise, top chord shall<br>cations shown for permanent lat<br>tes to each face of truss and pos<br>dard plate positions. | pping, installing and bracing. R<br>ety practices prior to performing<br>have properly attached structul<br>teral restraint of webs shall have<br>sition as shown above and on th   | UDING THE INSTA<br>efer to and follow th<br>these functions. In<br>a sheathing and bo<br>bracing installed po<br>he Joint Details, un | e latest edition of BCSI (Buildii<br>stallers shall provide temporar<br>ttom chord shall have a prope<br>r BCSI sections B3, B7, or B1<br>ess noted otherwise. Refer t   | ng<br>Y<br>Hy<br>0,<br>80  | Truss, Inc.                                |
| bine, a division of ITW<br>iss in conformance with<br>ting this drawing, ind<br>id use of this drawi  | Building Components Croup Inc   | chall not be reconcible for an  | v doviation from this   | drawing any failure to build th  | •  |  |

| Loading Criteria (psf)<br>TCLL: 21.00<br>TCDL: 18.00<br>BCLL: 0.00<br>Enclosure:   | 좌<br>주<br>+   | 49#<br>49#<br>45°9<br>4.24 12<br>45°9<br>4.24 12<br>4.24 12 | Wgt: 47.6 lbs   | <sup>12</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup><br><sup>11.5X4</sup> | 1  |                    |
|--|---|---|---|---|--|--------------------|
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   | ·포<br>·<br>·  | 4.24 12<br>= 3X4(A1) B<br>F   | - 83'4<br>- 83'4<br>- 83'4  |   |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   | 型<br>~<br>一   | 4.24 12<br>= 3X4(A1) B<br>F   | - 83°4  | 32"15   |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   | H<br>H  | = 3X4(A1) B   | -83'4   | 32"15   |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   | ▲<br>►  | 2117  |   | ■3X4(R) <u>E</u>  |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   | ŀ-  | 2'1"7   |   | <b>1</b>  |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   | <del> -</del>   | — 2'1"7 — <del>-   -</del>  | 8'3"4   |   |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   |   |   | 8'3"4   |   |  |                    |
| CLL: 21.00 Wind Std:<br>CDL: 18.00 Speed: 13   |   | <b>+</b><br>49#   | 140#  |   |  |                    |
| BCDL:         10.00         Risk Categ           Des Ld:         49.00         Mean Heig           NCBCLL:         10.00         TCDL:         6.0           Soffit:         0.00         BCDL:         6.0           Joad Duration:         1.15         MWFRS Pacing:         24.0 " | ASCE 7-10<br>D mph<br>Closed<br>ory: II<br>ht: 15.00 ft<br>psf<br>psf<br>arallel Dist: 0 to h/2 | Snow Criteria         (Pg,Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0         Lu:           Lu:         -         Cs: not used           Snow Duration:         1.15         Code / Misc Criteria           Bldg Code:         IBC 2012         TPI Std: 2007           Rep Factors Used:         Yes         FT/RT/PT:10(0)/3(0)/1(0)   | Defl/CSI Criteria<br>PP Deflection in I<br>VERT(LL): 0.007<br>VERT(TL): 0.041<br>HORZ(LL): 0.002<br>HORZ(TL): 0.013<br>Creep Factor: 1.5<br>Max TC CSI: 0.4<br>Max BC CSI: 0.2<br>Max Web CSI: 0.1<br>Mfg Specified Cam | Loc         L/#         Loc         R         / U           E         999         360         F         617         / 3           E         999         240         E         382         / 1           E         -         Wind reaction         Wind reaction           E         -         F         Min Brg <sup>1</sup> 78         Bearing F is a           60         Maximum To           84         Charde Ton  | 19 /- /- /-<br>19 /- /-<br>ns based on MWFRS<br>Width Req = 1.5<br>Width Req = -<br>a rigid surface.<br>op Chord Forces Pe | / 7.8<br>/ -<br>;  |
|  | pi: 0.18  | Plate Type(s):<br>WAVE  | VIEW Ver: 17.02.0   | A-B 8   | 86 -7 C-D<br>64 -535   | 36 - 7             |
| umber<br>op chord 2x4 HF #1&Bet.<br>ot chord 2x6 DF-L #1&Bet.  |   |   |   | Maximum Bo<br>Chords Ten:   | ot Chord Forces Per<br>s.Comp.   | r <b>Ply (Ibs)</b> |
| Vebs 2x4 :HF Standard + HF Stud:   |   |   |   | B - E 47  | 76 - 60  |                    |
| <b>angers / Ties</b><br>I) Hanger Support Required, by oth   | ers   |   |   |   | /eb Forces Per Ply (I<br>s.Comp. Webs  |                    |
| oading<br>Nottom chord checked for 10.00 psf<br>ottom chord live load applied per IE<br>607.<br>Overhang designed for 2.00X Pf.<br>Vind<br>Vind loads and reactions based on<br>Right end vertical not exposed to wir<br>Iplifts based on an elevation at or a                         | 3C-12 section<br>MWFRS.<br>nd pressure.   |   |   | C-E 6   | 64 - 504 D - E   | 10 - 12            |

listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suifability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.toinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

| Invest Lable:CG2Wgf: 44.8 lbs $I_{}$ $I_{$  | Trues Label: CG2       Wig 44.8 lbs        /       022692018         Image Label: CG2       Wig 44.8 lbs        /       022692018         Image Label: CG2       Wig 44.8 lbs        /       022692018         Image Label: CG2       Image Label: CG  | <b>Job Number:</b> 180336<br>FROST ADDITION APN   | #055-081-83   |  | Ply: 1<br>Qty: 1  | SEQN: 4096 / T17 / SPEC<br>FROM: DW  | DRW:  |   |
|--|--|---|---|--|---|--|---|---|
| $\frac{487}{489} \rightarrow \frac{271}{3771} \rightarrow \frac{272}{3771} \rightarrow \frac{1}{9} + \frac{1}{1} + $ | $\frac{487}{489} \rightarrow \frac{271}{3771} \rightarrow \frac{272}{3771} \rightarrow \frac{1}{9} + \frac{1}{1} + $ |   |   |  | -   |  |   | 02/26/2018  |
| $\frac{1}{100}$ $\frac{1}$   | $\frac{1}{100}$ $\frac{1}$   |   | 邳   | → 2'9"3 → 2<br>→ 4'5"9<br>424 12<br>≈1.5   | 9915 226<br>+ 834<br>39911  | ull.5X4 <sup>C</sup> st.ZE   |   |   |
| oading Criteria (psf)<br>CLL: 21:00         Wind Criteria<br>Wind Std: ASCE 7-10<br>Enclosure: Closed         Snow Criteria (Pg.Pf in PSF,<br>Pg: 30.0 Ct.1.0 CAT: II<br>PP Deflection in loc L/def L/#<br>VERT(LL): 0.013 D 999 340         Amaximum Reactions (lbs)<br>Loc R / U / Rw / Rh / RL / W           CDL: 10:00<br>ICLL: 0.00         Enclosure: Closed<br>Exp: C         Snow Driteria (Pg.Pf in PSF,<br>Pg: 30.0 Ct.1.0 Cc: 1.0)         Def/GSU Criteria<br>PP Deflection in loc L/def L/#<br>VERT(LL): 0.013 D 999 340         E 422 / 17 / - / - / - / - / - / - / - / - / - /   | oading Criteria (psf)<br>CLL: 21.00         Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed         Snow Criteria (Pg,Pf in PSF,<br>Pg: 30.0 Ct 1.0 CAT: II<br>PP Deflection in loc L/def L/#<br>VERT(LL): 0.013 D 999 340         Amaximum Reactions (lbs)<br>Loc R / U / Rw / Rh / RL / W           CDL: 10.00<br>ICLL: 0.00         Enclosure: Closed<br>Exp: C         Snow Driteria (Pg,Pf in PSF,<br>Pg: 30.0 Ct 1.0 Cc 1: 0)         PD Deflection in loc L/def L/#<br>VERT(LL): 0.013 D 999 340         E 422 / 17 / - / - / - / - / - / - / - / - / - /   |   |   | <b>k</b>   | '3"4  |  |   |   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  |   |   |  |   |  |   |   |
| Loading Criteria (ps/)<br>TCDL: 21.00       Wind Criteria       Snow Criteria (Pg,Pf in PSF)<br>DCL: 18.00       Def/CSI Criteria       A Maximum Reactions (bs)         CDL: 18.00       Speed: 130 mph<br>Enclosure: Closed       Snow Criteria (Pg,Pf in PSF)<br>Enclosure: Closed       Pp Deflection in loc L/defl L/#<br>VERT(L): 0.013 D 999 360       Image: Closed PSP 240       Image: Closed PSP 240         Coll: 10.00       Risk Category: II<br>EXP: C       EXP: C       Horac Criteria       HOR2(L): 0.004 D       Image: Closed PSP 240       Im  | Loading Criteria (psf)<br>TCDL: 21.00<br>TCDL: 18.00       Wind Criteria<br>(psf)<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>acDL: 10.00<br>CBCLL: 10.00       Snow Criteria (Pg,Pf in PSF)<br>Pg: 30.0 Ct 1.0 CAT: II<br>Pf: 21.0 Ce: 10<br>Li: - Cs: not used<br>Now Duration: 1.15       Def/CSI Criteria<br>PD Deflection in loc L/defl L/#<br>VERT(LL): 0.013 D 999 340<br>VERT(LL): 0.004 D<br>HOR2(LL): 0.004 D<br>HOR2(LL): 0.004 D<br>HOR2(TL): 0.016 D<br>Code / Misc Criteria<br>Bidg Code: IBC 2012<br>TP I Std: 2007<br>Rep Factors Used: Yes<br>FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):<br>Wind Duration: 1.60       A Maximum Reactions (bs)<br>Loc R / U / Rw / Rh / RL / W         Loading<br>Softm: 0.00<br>Code / Misc Criteria<br>Bidg Code: IBC 2012<br>TP I Std: 2007<br>CGC Di 0.18<br>Wind Duration: 1.60       The Std: 2024<br>TP I Std: 2007<br>Rep Factors Used: Yes<br>FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s):<br>WAVE       Max TC CSI: 0.246<br>Max BC CSI: 0.302<br>Max Web CSI: 0.198<br>Mfg Specified Camber:<br>VIEW Ver: 17.02.02C.0211.17       Maximum Bot Chord Forces Per Ply (lbs)<br>Chords Tens.Comp.<br>A - D 513 - 72         Loading<br>Sottom chord live load applied per IBC-12 section<br>1607.       Smow Duration: 1.60       Maximum Bot Chord Forces Per Ply (lbs)<br>Tens.Comp.       Maximum Bot Chord Forces Per Ply (lbs)<br>Tens.Comp.<br>A - D 513 - 72         Wind loads and reactions based on MWFRS.<br>Right end vertical not exposed to wind pressure.       Fig. Pacial Dist.0 to ind pressure.       The Std: 200 not on the pressure.       Maximum Web Forces Per Ply (lbs)<br>Tens.Comp.   |   |   |  | 146#  |  |   |   |
| Job Clord Zx4 III # 148Et.       A - D       513       -72         A - D       513       -72         Joading       Maximum Web Forces Per Ply (lbs)         Bottom chord checked for 10.00 psf non-concurrent pottom chord live load applied per IBC-12 section       Mess 2x4         I607.       B - D       77       -543       C - D       10       -12         Wind       Wind loads and reactions based on MWFRS.       Right end vertical not exposed to wind pressure.  | Not clord Zx4 III # HaBet.       A - D       513       -72         A - D       513       -72         Loading       Maximum Web Forces Per Ply (lbs)         Bottom chord checked for 10.00 psf non-concurrent pottom chord live load applied per IBC-12 section       Mess 2x4         1607.       B - D       77       -543       C - D       10       -12         Wind       Wind loads and reactions based on MWFRS.       Right end vertical not exposed to wind pressure.  | TCDL: 18.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 49.00<br>NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.15<br>Spacing: 24.0 "  | Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Pg: 30.0 Ct: 1.0 CAT: II<br>Pf: 21.0 Ce: 1.0<br>Lu: - Cs: not used<br>Snow Duration: 1.15<br>Code / Misc Criteria<br>Bldg Code: IBC 2012<br>TPI Std: 2007<br>Rep Factors Used: Yes<br>FT/RT/PT:10(0)/3(0)/1(0)<br>Plate Type(s): | PP Deflection in<br>VERT(LL): 0.013<br>VERT(TL): 0.050<br>HORZ(LL): 0.004<br>HORZ(TL): 0.016<br>Creep Factor: 1.5<br>Max TC CSI: 0.:<br>Max BC CSI: 0.:<br>Max Web CSI: 0.<br>Mfg Specified Car | Loc L/defi         L/#         Loc R         /           D         999         360         E         422         /           D         999         240         D         407         /           D         -         -         Wind reacti         E         Min Brg           246         Bearing E is         302         Bearing E is         Chords Te           198         Chords Te         A - B         A - B         A - B | U         / Rw         / Rh         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           17         / -         / -         /           10         State         -         /           17         / -         / -         /           17         / -         /         -           17         Statistics         -         -           18         Statistics         -         -           19         Chord         Forces         I           18         -         566         B - C           17         -         566         B - C         - | - /7.8<br>- /-<br>RS<br>Per Ply (Ibs)<br>Is Tens. Comp<br>34 -8 |
| Webs     Tens.Comp.     Webs     Tens. Comp.       oottom chord live load applied per IBC-12 section     B - D     77 - 543     C - D     10 - 12       607.     Wind       Vind     Vind loads and reactions based on MWFRS.       Right end vertical not exposed to wind pressure.   | Webs     Tens.Comp.     Webs     Tens. Comp.       oottom chord live load applied per IBC-12 section     B - D     77 - 543     C - D     10 - 12       607.     Wind       Vind     Vind loads and reactions based on MWFRS.       Right end vertical not exposed to wind pressure.   | ot chord 2x6 DF-L #1&   | Bet.  |  |   |  | <u> </u>  |   |
| bottom chord live load applied per IBC-12 section B - D 77 - 543 C - D 10 - 12<br>I607.<br>Wind<br>Wind loads and reactions based on MWFRS.<br>Right end vertical not exposed to wind pressure.  | bottom chord live load applied per IBC-12 section B - D 77 - 543 C - D 10 - 12<br>I607.<br>Wind<br>Wind loads and reactions based on MWFRS.<br>Right end vertical not exposed to wind pressure.  | -   | or 10.00 psf non-concurrent   |  |   |  |   |   |
| Vind loads and reactions based on MWFRS.<br>Right end vertical not exposed to wind pressure.   | Vind loads and reactions based on MWFRS.<br>Right end vertical not exposed to wind pressure.   | ottom chord live load a   |   |  |   | B - D  | 77 - 543 C - D  | 10 - 12   |
|  |  | Right end vertical not ex   | posed to wind pressure.   |  |   |  |   |   |
| **WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!   |  | **IMPORTAN<br>russes require extreme<br>component Safety Inform<br>racing per BCSI. Unless<br>ttached rigid ceiling. Lc<br>s applicable. Apply pla<br>rawings 160A-Z for star | T** FURNISH THIS DRAWING T<br>care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safet<br>s noted otherwise top chord shall h<br>cations shown for permanent late<br>ites to each face of truss and posit<br>dard plate positions.                         | O ALL CONTRACTORS INCLU<br>ping, installing and bracing. Re<br>ty practices prior to performing<br>tave properly attacthed structure<br>ral restraint of webs shall have<br>tion as shown above and on the                       | JDING THE INSTA<br>fer to and follow th<br>these functions. In<br>al sheathing and bo<br>bracing installed po<br>e Joint Details, un  | e latest edition of BCSI (Buil<br>stallers shall provide tempor<br>totom chord shall have a proj<br>er BCSI sections B3, B7, or t<br>less noted otherwise. Refe  | ding<br>ary<br>berly<br>310,<br>r to Refi   | Truss, Inc.   |
| **WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!<br>**IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS<br>russes require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building<br>omponent Safety, Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary<br>racing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly<br>tached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have brace process conted otherwise. Refer to<br>a sapplicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to  | **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS<br>russes require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building<br>component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary<br>racing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly<br>ttached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10,  | Alpine, a division of ITW<br>russ in conformance with<br>isting this drawing, ind<br>and use of this drawi  | Dard plate positions.<br>Building Components Group Inc. s<br>h ANSI/TPI 1, or for handling, ship<br>licates acceptance of professi<br>ing for any structure is the respo  | shall not be responsible for any<br>pping, installation and bracing c<br>onal engineering responsibi<br>onsibility of the Building Desi  | deviation from this<br>f trusses A seal on<br>lity solely for the<br>gner per ANSI/TP   | drawing,any failure to build<br>this drawing or cover pag<br>design shown. The suita<br>1 Sec.2.   | the<br>e<br>ibility   | o 11 moio, inc.   |

Insting this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.abjineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustrv.com; ICC: www.iccsafe.org

| Job Number: 180336   |  |  | Ply: 1   | SEQN: 4066 /   | T7 / JACK   |  |                         |
|--|--|--|--|--|---|--|-------------------------|
| FROST ADDITION APN<br>Truss Label: J1  | #055-081-83  |  | Qty: 15<br>Wgt: 8.4 lbs  | FROM: DW   |   | DRW:   | 02/26/2018              |
|  | 4"3<br>A   | $\begin{array}{c} 12 \\ = 3X4(A1)^{B} \\ \end{array}$  |  | C<br>D   | <b>−−</b> 1'3"10 −−   | 2'0"6  |                         |
|  | -  | 1'6" ──>   | 1'10"15<br>1'10"15   | ₽  |   |  |                         |
| Loading Criteria (psf)           TCLL:         21.00           TCDL:         18.00           BCLL:         0.00           BCDL:         10.00           Des Ld:         49.00           NCBCLL:         10.00           Soffit:         0.00           Load Duration:         1.15           Spacing:         24.0 " | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Snow Criteria         (Pg.Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0         Lu:           Lu: -         Cs: not used         Snow Duration: 1.15           Code / Misc Criteria           Bldg Code:         IBC 2012           TPI Std:         2007           Rep Factors Used:         Yes           FT/RT/PT:10(0)/3(0)/1(0)         Plate Type(s):           WAVE         VE | Defl/CSI Criteria<br>PP Deflection in<br>VERT(LL): NA<br>VERT(TL): NA<br>HORZ(LL): -0.001<br>HORZ(TL): -0.003<br>Creep Factor: 1.5<br>Max TC CSI: 0.0<br>Max BC CSI: 0.0<br>Max Web CSI: 0.1<br>Mfg Specified Car<br>VIEW Ver: 17.02.0 | D<br>D<br>237<br>053<br>000<br>nber:   | Loc R /U<br>B 343 /31<br>D 24 /14<br>C 24 /27<br>Wind reaction<br>B Min Brg V<br>D Min Brg V<br>C Min Brg V<br>Bearing B is a | 1     /22     /-     /-       7     /24     /-     /-       15     sbased on MWFRS     Width Req = 1.5     1.5       Vidth Req = -     -     Vidth Req = -       Vidth Req = -     -     -       rigid surface.     P     Chord Forces Per | / 5.5<br>/ 1.5<br>/ 1.5 |
| Lumber<br>Top chord 2x4 HF #1&B<br>Bot chord 2x4 HF #1&Br<br>Loading<br>Bottom chord checked fi<br>bottom chord live load a<br>1607.   | et.  | 1.002  |  |  | Chords Tens   | t Chord Forces Per   | 11 -4<br>Ply (Ibs)      |
| member design.   | 2.00X Pf.<br>WFRS with additional C&C<br>ation at or above 3000 ft.  |  |  |  |   |  |                         |
|  |  |  |  |  |   |  |                         |
|  |  |  |  |  |   |  |                         |
| **IMPORTAN<br>Trusses require extreme<br>Component Safety Inform<br>pracing per BCSI. Unless<br>attached rigid ceiling. Lo<br>is applicable. Apply pla<br>arawings 160A-Z for star   | **WARNING** READ AND FOLL<br>T** FURNISH THIS DRAWING T<br>care in fabricating, handling, ship<br>nation, by TPI and SBCA) for safel<br>is noted otherwise, top chord shall h<br>cations shown for permanent late<br>tes to each face of truss and posit<br>idard plate positions.           | O ALL CONTRACTORS INCL<br>oring, installing and bracing. Re<br>y practices prior to performing<br>lave properly attached structur<br>ral restraint of webs shall have<br>ion as shown above and on the   | UDING THE INSTA<br>efer to and follow th<br>these functions. In<br>al sheathing and bo<br>bracing installed po<br>he Joint Details, unl  | e latest edition o<br>stallers shall pro<br>ottom chord shal<br>er BCSI sections<br>less noted other | of BCSI (Buildir<br>ovide temporar<br>I have a prope<br>s B3, B7, or B1<br>wise. Refer t                                      | ng<br>Ny<br>0,<br>0 Reno T   | russ, Inc.              |

Apine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



| Job Number: 180336<br>FROST ADDITION APN<br>Truss Label: J1A   | #055-081-83  |   | Ply: 1<br>Qty: 1<br>Wgt: 7.0 lbs   | SEQN: 4092 / T16 / JACK<br>FROM: DW  | DRW:<br>/  | 02/26/2018  |
|--|--|---|--|--|--|---|
|  | =<br>4"3<br>¥  | 12<br>6<br>= 3X4(A1) A  | 1'10"15  | B 13"10 H  |  |   |
| Loading Uriteria (psf)           TCLL:         21.00           TCDL:         18.00           BCLL:         0.00           BCDL:         10.00           Des Ld:         49.00           NCBCLL:         10.00           Soffit:         0.00           Load Duration:         1.15           Spacing:         24.0 " | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Snow Criteria (Pg,Pf in PSF)           Pg: 30.0 Ct: 1.0 CAT: II           Pf: 21.0 Ce: 1.0           Lu: - Cs: not used           Snow Duration: 1.15           Code / Misc Criteria           Bldg Code: IBC 2012           TPI Std: 2007           Rep Factors Used: Yes           F1/R1/PT:10(0)/3(0)/1(0)           Plate Type(s):           WAVE | 1'10"15<br>Defl/CSI Criteria<br>PP Deflection in<br>VERT(LL): NA<br>VERT(TL): NA<br>HORZ(LL): 0.000<br>HORZ(TL): 0.001<br>Creep Factor: 1.5<br>Max BC CSI: 0.1<br>Max Web CSI: 0.1<br>Max Web CSI: 0.1<br>Max Web CSI: 0.1<br>Max Web CSI: 0.1 | Loc L/defl         L/#         Loc R         / U           A         106         /-         C         36         /-           C         -         -         B         64         / 19           O36         C         Min Brg N         006         B         Min Brg N           000         mber:         Min Brg N         000         Bearing A is a           02C0211.17         Maximum To         Chords Tens | /72 /- /2<br>/26 /- /-<br>5 /39 /- /-<br>15 based on MWFR<br>Width Req = 1.5<br>Width Req = -<br>Width Req = -<br>a rigid surface.<br>Pp Chord Forces P<br>s.Comp. | 25 / 5.5<br>- / 1.5<br>- / 1.5<br>- / 1.5<br>- / 1.5<br>- / |
| bottom chord live load a<br>1607.<br><b>Wind</b><br>Wind loads based on M<br>member design.  |  |   | <u>.</u>   | Maximum Bo<br>Chords Tens  | 9 -50<br>ht Chord Forces P<br>s.Comp.<br>0 0   | er Ply (ibs)  |

\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING! \*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Satety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary toracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses A seal on this drawing, any failure to build the listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1. Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.abinetw.com; TPI: www.sbindustry.com; ICC: www.sbcindustry.com; ICC: www.iccsaff



| Truss Label: J2  |  |  | Qty: 15<br>Wat: 15.4 lbs  | FROM: DW  | DRW:  | 02/26/2019              |
|--|--|--|---|---|---|-------------------------|
|  | =3)<br><del>4</del> 3<br>A   | 6 12<br>(4(A1) B   | Wgt: 15.4 lbs   | C<br>C<br>C<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  |   | 02/26/2018              |
|  | <b> </b> − 1'6"  | <br><b>⊳ </b> ≼  | 3'10"15<br>3'10"15  |   |   |                         |
| Loading Criteria (psf)           TCLL:         21.00           TCDL:         18.00           3CLL:         0.00           3CDL:         10.00           Des Ld:         49.00           NCBCLL:         10.00           Soffit:         0.00           .oad Duration:         1.15           Spacing:         24.0 " | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18<br>Wind Duration: 1.60 | Snow Criteria         (Pg,Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0         Lu:           Lu:         -         Cs: not used           Snow Duration:         1.15         Code / Misc Criteria           Bldg Code:         IBC 2012         TPI Std: 2007           Rep Factors Used:         Yes         FT/RT/PT:10(0)/3(0)/1(0)           Plate Type(s):         WAVE         WAVE | Defl/CSI Criteria<br>PP Deflection in<br>VERT(LL): NA<br>VERT(TL): NA<br>HORZ(LL): 0.001<br>HORZ(TL): 0.005<br>Creep Factor: 1.5<br>Max TC CSI: 0.2<br>Max BC CSI: 0.7<br>Max Web CSI: 0.1<br>Max Web CSI: 0.1<br>Mag Specified Car | Loc L/defi L/# Loc R /<br>B 360 /<br>D C 123 /<br>D Wind react<br>B Min Br<br>D Min Br<br>C Min Br<br>C Min Br<br>Bearing B i<br>Bearing B i<br>Chorris, Te | ions based on MWFRS<br>g Width Req = 1.5<br>g Width Req = -<br>g Width Req = -<br>is a rigid surface.<br><b>Top Chord Forces Pe</b> l | / 5.5<br>/ 1.5<br>/ 1.5 |
| oottom chord live load a<br>607.<br>Dverhang designed for<br><b>Wind</b><br>Nind loads based on M<br>nember design.  | let.<br>for 10.00 psf non-concurrent<br>applied per IBC-12 section   |  |   | A - B<br>Maximum<br>Chords Te<br>B - D  | 83 0 B-C<br>Bot Chord Forces Per<br>ens.Comp.<br>0 0  | 55 - 11(                |
|  |  |  |   |   |   |                         |

Alpine, a division of ITW Building Components. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.toinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



| Truss Label: J2A   | $\equiv 3X4(A)$   | 6 12<br>6 7   | Wgt: 12.6 lbs  | B  | 02/26/2018  |
|--|---|---|--|--|---|
|  |   | 6   |  |  | - 2'3"10  |
|  |   |   |  | C  | <u>v</u>  |
|  |   | 1   | 3'10"15  | 1  |   |
|  |   | -   | 3'10"15  |  |   |
| TCLL:         21.00         Wind S           TCDL:         18.00         Speed           BCLL:         0.00         Enclos           BCDL:         10.00         ExP: C           Des Ld:         49.00         NCBCLL:         10.00           Soffit:         0.00         BCDL:         1CDL:           Load Duration:         1.15         Specing:         24.0 " | Criteria<br>Std: ASCE 7-10<br>130 mph<br>ure: Closed<br>ategory: II<br>deight: 15.00 ft<br>6.0 psf<br>6.0 psf<br>S Parallel Dist: 0 to h/2<br>ist a: 3.00 ft<br>om endwall: Any<br>GCpi: 0.18<br>Juration: 1.60 | Snow Criteria (Pg,Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0           Lu: -         Cs: not used           Snow Duration: 1.15           Code / Misc Criteria           Bldg Code:         IBC 2012           TPI Std:         2007           Rep Factors Used: Yes           FT/RT/PT:10(0)/3(0)/1(0)           Plate Type(s):           WAVE | Defl/CSI Criteria<br>PP Deflection in loc<br>VERT(LL): NA<br>VERT(TL): NA<br>HORZ(LL): 0.003 C<br>HORZ(TL): 0.009 C<br>Creep Factor: 1.5<br>Max TC CSI: 0.194<br>Max BC CSI: 0.127<br>Max Web CSI: 0.000<br>Mfg Specified Cambe<br>VIEW Ver: 17.02.020 | L/defi L/# Loc R / /<br>A 208 /<br>C 76 /<br>B 139 /<br>Wind reaction<br>A Min Brg<br>C Min Brg<br>B Min Brg<br>Bearing A is<br>er:<br>Maximum 1<br>Chords Tei | - / 143 /- / 51 / 5.5<br>- / 55 /- /- / 1.5<br>32 / 84 /- /- / 1.5<br>ons based on MWFRS<br>  Width Req = 1.5<br>  Width Req = -<br>  Width Req = -<br>: a rigid surface.<br>Top Chord Forces Per Ply (lbs) |
| Lumber<br>Top chord 2x4 HF #1&Bet.   |   |   |  |  | 62 - 112  |
| Bot chord 2x4 HF #1&Bet.<br>Loading<br>Bottom chord checked for 10.00<br>bottom chord live load applied p<br>1607.<br>Wind<br>Wind loads based on MWFRS w<br>member design.<br>Uplifts based on an elevation at  | er IBC-12 section   |   |  | A - C  | Bot Chord Forces Per Ply (Ibs)<br>ns.Comp.<br>0 0   |

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

| <b>Job Number:</b> 180336<br>FROST ADDITION APN <del>;</del>  | #055-081-83  |   | Ply: 1<br>Qty: 28   | SEQN: 4070 / T8 / EJAC<br>FROM: DW  | DRW:   |
|---|--|---|---|---|--|
| Fruss Label: J3   |  |   | Wgt: 26.6 lbs   |   | / 02/26/2018   |
|   | =3X4<br><u>+</u><br>A  | 6 12<br>(A1) B  |   | ■1.5X4 C<br>■1.5X4 C<br>■ C<br>■ C<br>■ C<br>■ C<br>■ C<br>■ C<br>■ C<br>■  |  |
|   |  | <b>↓</b>  | 5'11"4  |   |  |
|   | <b> </b> <del>-</del> ── 1'6" −  |   | 5'11"4  | ••  |  |
| Loading Criteria (psf)<br>TCLL: 21.00<br>TCDL: 18.00<br>BCLL: 0.00<br>BCDL: 10.00<br>Des Ld: 49.00<br>NCBCLL: 10.00<br>Soffit: 0.00<br>Load Duration: 1.15<br>Spacing: 24.0 " | Wind Criteria<br>Wind Std: ASCE 7-10<br>Speed: 130 mph<br>Enclosure: Closed<br>Risk Category: II<br>EXP: C<br>Mean Height: 15.00 ft<br>TCDL: 6.0 psf<br>BCDL: 6.0 psf<br>BCDL: 6.0 psf<br>MWFRS Parallel Dist: 0 to h/2<br>C&C Dist a: 3.00 ft<br>Loc. from endwall: Any<br>GCpi: 0.18 | Snow Criteria (Pg,Pf in PSF)           Pg: 30.0         Ct: 1.0         CAT: II           Pf: 21.0         Ce: 1.0           Lu: -         Cs: not used           Snow Duration: 1.15           Code / Misc Criteria           Bldg Code: IBC 2012           TPI Std: 2007           Rep Factors Used: Yes           FT/RT/PT:10(0)/3(0)/1(0)           Plate Type(s):           WAVE | Defl/CSI Criteria<br>PP Deflection in<br>VERT(LL): NA<br>VERT(TL): NA<br>HORZ(LL): 0.007<br>HORZ(TL): 0.021<br>Creep Factor: 1.5<br>Max TC CSI: 0.4<br>Max BC CSI: 0.4<br>Max Web CSI: 0.4<br>Max Web CSI: 0.4<br>Mag Specified Car | Loc R         /U           D         -         -         B         454         /22           D         -         -         Wind reaction         D         B         Min Brg V           415         B         Bearing B is a         245         Bearing B is a         245           229         Maximum To Chords Tens         Chords Tens         A - B         8 | 4 / 337 /- / 98 / 5.5<br>3 / 197 /- /- /-<br>Is based on MWFRS<br>Width Req = 1.5<br>Width Req = -<br>a rigid surface.<br>Pp Chord Forces Per Ply (Ibs)<br>a.Comp. Chords Tens. Comp |
| umber   | Wind Duration: 1.60  | WAVE  | VIEW Ver: 17.02.0   | Maximum Bo  | ot Chord Forces Per Ply (lbs)  |
| Fop chord 2x4 HF #1&Be<br>Bot chord 2x4 HF #1&Be<br>Webs 2x4 :HF Standard   | et.  |   |   | Chords Tens<br>B - D 2  | s.Comp<br>0 -16  |
| <b>langers / Ties</b><br>J) Hanger Support Requ   | uired by others  |   |   |   | eb Forces Per Ply (lbs)<br>s.Comp.   |
| <b>.oading</b><br>Bottom chord checked fo   | or 10.00 psf non-concurrent<br>oplied per IBC-12 section   |   |   | C-D 22  | 0 - 202  |
| <b>Wind</b><br>Wind loads based on MV<br>nember design.<br>Right end vertical not exi   | VFRS with additional C&C   |   |   |   |  |
|   | ation at or above 3000 ft.   |   |   |   |  |
|   | *WARNING** READ AND FOLL<br>** FURNISH THIS DRAWING T<br>care in fabricating, handling, shipp<br>lation, by TPI and SBCA) for safet<br>noted otherwise, top chord shall h<br>cations shown for permanent later<br>tes to each face of truss and posit<br>dard plate positions.         |   |   | LLERS<br>e latest edition of BCSI (Buildi<br>stallers shall provide temporar<br>tom chord shall have a prope<br>ar BCSI exertions P3  | ng<br>Y<br>My  |
| awings 160A-Z for stan  | tes to each face of truss and posit<br>dard plate positions.   | shall not be responsible for any  | e Joint Details, un   | er BCSI sections B3, B7, or B1<br>less noted otherwise. Refer t<br>drawing,any failure to build th<br>this drawing or cover page<br>design shown. The suitabi<br>1 Sec.2.   | e Reno Truss, Inc.   |

listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.toinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

| Address<br>N<br>W   | 18200 Lake Vista<br>Degrees Min Sec Degrees Decimal<br>39 15 44.94 39.2624833<br>119 49 28.39 -119.82455   | V = C W   |
|---|--|---|
| S <sub>DS</sub><br>R<br>I <sub>e</sub><br>C <sub>s</sub><br>V=  | 1.532<br>6.5<br>1<br>0.2357<br>21,670 lb Seismic shear   | $V = C_s W$ $C_s = \frac{S_{DS}}{\left(\frac{R}{I_e}\right)}$ |
| W<br>Garage 1<br>Roof<br>Walls 14'<br>Garage 2<br>Roof<br>walls 10'<br>Addition<br>Roof<br>Walls 9'<br>Ceiling<br>Walls int 8'<br>Trusses<br>Total weight | 958 sf 16,166<br>88 lf 12,584 12 psf<br>513 sf 8,657<br>48 lf 5,760 12 psf<br>1197 sf 20,199<br>110 lf 11,880 12 psf<br>968 sf 1,936 2 psf<br>58 lf 9,280 20 psf<br>5,479<br>91,941 lb |   |
| SHEAR E-W<br>SHEAR N-S<br>Ave   | 201 PLF<br>276 PLF<br>239  |   |
| Tile roof (psf<br>Plywood lb/i<br>Seismic wt  | -  |   |

## **USGS** Design Maps Summary Report

## User-Specified Input

Report Title 18200 Lake Vista Road

Wed March 14, 2018 14:45:51 UTC

(which utilizes USGS hazard data available in 2008)

Building Code Reference Document 2012/2015 International Building Code

Site Coordinates 39.26248°N, 119.82455°W

Site Soil Classification Site Class D - "Stiff Soil"

Risk Category I/II/III



## **USGS**-Provided Output

| s <sub>s</sub> = | 2.298 g | S <sub>MS</sub> = | 2.298 g | <b>S</b> <sub>DS</sub> = | 1.532 g |
|------------------|---------|-------------------|---------|--------------------------|---------|
| S, =             | 0.835 g | S <sub>M1</sub> = | 1.252 g | S <sub>D1</sub> =        | 0.835 g |

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.



EIN 14-1906538 R.G. LaPrairie, PE

Sr. Engineer/Manager

## TRUSS SUBMITTAL CERTIFICATION LETTER

Date: April 18, 2018

Project: 18200 Lake Vista Road, Washoe Valley NV Frost Addition

TO: The Building Department

This letter is to certify that I have reviewed the attached truss calculations prior to submittal to the Building Department for the above named address and find them to be in compliance with the proposed plans and specifications including but not limited to connections, truss loads, load paths, bearing points and span lengths.

**A NOTE:** Since the Truss Calcs were made the building length on Garage 1 has been increased by 6 feet in the East/West direction this means that the number of trusses A05 will increase from 3 to 6 units. The Owner has also requested that the length of the truss overhang be increased from 18" to 24". This will have minimal effect on the structure and is already accounted for in the structural calculations.

Sincerely



Richard G. LaPrairie, PE

| Truss | Page | ft | in | frac  |         |
|-------|------|----|----|-------|---------|
| A01   | 2    | 24 | 5  | 1     | 293.063 |
| A02   | 3    | 24 | 5  | 1/8   | 293.008 |
| A03   | 4    | 24 | 5  | 1/8   | 293.008 |
| A04   | 5    | 24 | 5  | 1/8   | 293.008 |
| A05   | 6    | 24 | 5  | 1/8   | 293.008 |
| A06   | 7    | 24 | 2  | 2.00  | 290.125 |
| B01   | 8    | 22 |    |       | 264.000 |
| B02   | 9    | 18 | 3  | 1.000 | 219.063 |
| B03   | 10   | 18 | 3  | 1.000 | 219.063 |
| B04   | 11   | 18 | 3  | 1.000 | 219.063 |
| B05   | 12   | 18 | 3  | 1.000 | 219.063 |
| B06   | 13   | 18 | 3  | 1.000 | 219.063 |
| B07   | 14   | 22 |    |       | 264.000 |
| B08   | 15   | 22 |    |       | 264.000 |
| B09   | 16   | 22 |    |       | 264.000 |
| B10   | 17   | 22 |    |       | 264.000 |
| V1    | 18   | 5  | 6  |       | 66.000  |
| V2    | 19   | 9  | 8  |       | 116.000 |
| V3    | 20   | 13 | 6  |       | 162.000 |
| V4    | 21   | 17 | 6  | 1     | 210.063 |
| V5    | 22   | 21 | 6  | 1     | 258.063 |
| LG1   | 23   | 12 | 5  | 3     | 149.188 |
| LG2   | 24   | 9  | 11 | 11    | 119.688 |
| CG1   | 25   | 8  | 3  | 4     | 99.250  |
| CG2   | 26   | 8  | 3  | 4     | 99.250  |
| J1    | 27   | 1  | 6  |       | 18.000  |
| J1A   | 28   | 1  | 10 | 15    | 22.938  |
| J2    | 29   | 3  | 10 | 15    | 46.938  |
| J2A   | 30   | 3  | 10 | 15    | 46.938  |
| J3    | 31   | 5  | 11 | 4     | 71.250  |