APPLICATION FOR VARIANCE

State Form 44400 (R5 / 10-10)
Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
402 West Washington Street, Room E 241
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/

INSTRUCTION: Please refer to the attached four (4) page instructions. Attach additional pages as needed to complete this application.

Variance number *(Assigned by department)*: 17-12-08(a)

1. APPLICANT INFORMATION *(Person who would be in violation if variance is not granted; usually this is the owner)*

Name of the applicant:

Title: Board member

Name of organization: Whispering Knoll School

Telephone number: (574) 773-0643

Address *(number and street, city, state, and ZIP code)*:

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT *(If not submitted by the applicant)*

Name of person on behalf of the applicant: Jacob Beechy

Title: Agent

Name of organization: Whispering Knoll School

Telephone number: (574) 646-2069

Address *(number and street, city, state, and ZIP code)*: 8611 W 750 N Etna Green IN. 46524

3. DESIGN PROFESSIONAL OF RECORD *(If applicable)*

Name of design professional:

License number:

Name of organization:

Telephone number: ( )

Address *(number and street, city, state, and ZIP code)*:

4. PROJECT IDENTIFICATION

Name of project: Whispering Knoll School

State project number:

County: Marshall

Site address *(number and street, city, state, and ZIP code)*:

Type of project: ☑ New ☐ Addition ☐ Alteration ☐ Change of occupancy ☐ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application *(check as applicable)*:

☐ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. *(see instructions)*

☑ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.

☑ Written documentation showing that the local fire official has received a copy of the variance application.

☑ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes *(if yes, attach a copy of the Correction Order)* ☐ No

Has a violation been issued? ☐ Yes *(if yes, attach a copy of the Violation and answer the following)* ☐ No

Violation issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section ☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved	Specific code section
2008 Indiana Building Code	907.2.3

Nature of non-compliance *(include a description of spaces, equipment, etc. involved as necessary)*

This is a small rural two-room Amish School with an occupant load of less than 70. The manual fire alarm system required by Section 907.2.3 will not be installed.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

☐ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or

☒ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate *(be specific)*.

Facts demonstrating that the above selected statement is true:

-Provide interconnected, long life battery smoke and heat detectors throughout building.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of physical limitations of the construction site or its utility services.

☐ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of major operational problems in the use of the building or structure.

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of excessive costs of additional or altered construction elements.

☐ Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

This small, two-room school will have a fully operational interconnected smoke and heat detection/alarm system throughout the building. Adequate notice to evacuate the building will be provided via this system. The only difference between the system proposed and the required system is the addition of a manual pull station at the exit doors. Given the small size of the building these pull stations are not necessary.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

Signature of applicant or person submitting application	Please print name	Date of signature *(month, day, year)*
Jacob Beechy	Jacob Beechy	8-31-2017
Signature of design professional *(if applicable)*	Please print name	Date of signature *(month, day, year)*

11. STATEMENT OF AWARENESS *(If the application is submitted on the applicant's behalf, the applicant must sign the following statement)*

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant	Please print name	Date of signature *(month, day, year)*
Wayne Schwartz	Wayne Schwartz	8-31-2017

APPLICATION FOR VARIANCE

State Form 44400 (R5 / 10-10)
Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
402 West Washington Street, Room E 241
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/

INSTRUCTION: Please refer to the attached four (4) page instructions. Attach additional pages as needed to complete this application.

Variance number *(Assigned by department)*: 17-12-08(b)

1. APPLICANT INFORMATION *(Person who would be in violation if variance is not granted; usually this is the owner)*

Name of the applicant	Title: Board member
Name of organization: Whispering Knoll School	Telephone number: (574) 773-0643
Address *(number and street, city, state, and ZIP code)*	

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT *(If not submitted by the applicant)*

Name of person on behalf of the applicant: Jacob Beechy	Title: Agent
Name of organization: Whispering Knoll School	Telephone number: (574) 646-2069
Address *(number and street, city, state, and ZIP code)*: 8611 W 750 N Etna Green IN. 46524	

3. DESIGN PROFESSIONAL OF RECORD *(If applicable)*

Name of design professional	License number
Name of organization	Telephone number: ( )
Address *(number and street, city, state, and ZIP code)*	

4. PROJECT IDENTIFICATION

Name of project: Whispering Knoll School	State project number	County: Marshall
Site address *(number and street, city, state, and ZIP code)*		

Type of project: ☑ New ☐ Addition ☐ Alteration ☐ Change of occupancy ☐ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application *(check as applicable)*:

- ☐ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. *(see instructions)*
- ☑ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☑ Written documentation showing that the local fire official has received a copy of the variance application.
- ☑ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes *(if yes, attach a copy of the Correction Order)* ☐ No

Has a violation been issued? ☐ Yes *(if yes, attach a copy of the Violation and answer the following)* ☐ No

Violation issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section ☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved: 2014 Indiana Building Code

Specific code section: 1011.3

Nature of non-compliance *(include a description of spaces, equipment, etc. involved as necessary)*

This is a rural, two-room Amish school without electricity. The electrically powered illumination of the exit signs will not be provided.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

☐ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or

☒ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate *(be specific)*.

Facts demonstrating that the above selected statement is true:

Highly reflective, photo-luminescent exit signs will be provided at all exit doors.

There will be hard-piped L.P. gas lights or Coleman lanterns or Leacock lights installed for lighting.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of physical limitations of the construction site or its utility services.

☐ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of major operational problems in the use of the building or structure.

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of excessive costs of additional or altered construction elements.

☐ Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

This rural Amish school is not served with electricity to power the exit sign lighting. There will be hard-piped L.P. gas lights or Coleman lanterns or Leacock lights installed for lighting.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

Signature of applicant or person submitting application	Please print name	Date of signature *(month, day, year)*
Jacob Beechy	Jacob Beechy	8-31-2017
Signature of design professional *(if applicable)*	Please print name	Date of signature *(month, day, year)*

11. STATEMENT OF AWARENESS *(If the application is submitted on the applicant's behalf, the applicant must sign the following statement)*

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant	Please print name	Date of signature *(month, day, year)*
Wayne Schwartz	Wayne Schwartz	8-31-2017

APPLICATION FOR VARIANCE

State Form 44400 (R5 / 10-10)
Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
402 West Washington Street, Room E 241
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/

INSTRUCTION: ***Please refer to the attached four (4) page instructions. Attach additional pages as needed to complete this application.***

Variance number *(Assigned by department)*: 17-12-08 (2)

1. APPLICANT INFORMATION *(Person who would be in violation if variance is not granted; usually this is the owner)*

Name of the applicant	Title
	Board member
Name of organization: Whispering Knoll School	Telephone number: (574) 773-0643
Address *(number and street, city, state, and ZIP code)*	

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT *(If not submitted by the applicant)*

Name of person on behalf of the applicant: Jacob Beechy	Title: Agent
Name of organization: Whispering Knoll School	Telephone number: (574) 646-2069
Address *(number and street, city, state, and ZIP code)*: 8611 W 750 N Etna Green IN. 46524	

3. DESIGN PROFESSIONAL OF RECORD *(If applicable)*

Name of design professional	License number
Name of organization	Telephone number ( )
Address *(number and street, city, state, and ZIP code)*	

4. PROJECT IDENTIFICATION

Name of project: Whispering Knoll School	State project number	County: Marshall
Site address *(number and street, city, state, and ZIP code)*		

Type of project: ☑ New ☐ Addition ☐ Alteration ☐ Change of occupancy ☐ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application *(check as applicable)*:

- ☐ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. *(see instructions)*
- ☑ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☑ Written documentation showing that the local fire official has received a copy of the variance application.
- ☑ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes *(if yes, attach a copy of the Correction Order)* ☐ No

Has a violation been issued? ☐ Yes *(if yes, attach a copy of the Violation and answer the following)* ☐ No

Violation issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section ☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved: 2008 Indiana Building Code

Specific code section: 1006

Nature of non-compliance *(include a description of spaces, equipment, etc. involved as necessary)*

This is a small rural Amish school. Means of egress illumination required by Section 1006 will not be installed.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

☐ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or

☒ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate *(be specific)*.

Facts demonstrating that the above selected statement is true:

-For the safety of the children, travel to and from these schools is accomplished during daylight hours. Because of this, the school building will not be used during non-daylight hours.
-Highly reflective photo luminescent exit signs will be installed at each exit door.
-An interconnected smoke and heat detection/alarm system will be installed throughout the building.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of physical limitations of the construction site or its utility services.

☐ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of major operational problems in the use of the building or structure.

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of excessive costs of additional or altered construction elements.

☐ Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

This rural Amish school is not served with electricity to power the emergency lighting.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

Signature of applicant or person submitting application	Please print name	Date of signature *(month, day, year)*
Jacob Beechy	Jacob Beechy	8-31-2017
Signature of design professional *(if applicable)*	Please print name	Date of signature *(month, day, year)*

11. STATEMENT OF AWARENESS *(If the application is submitted on the applicant's behalf, the applicant must sign the following statement)*

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant	Please print name	Date of signature *(month, day, year)*
Wayne Schwartz	Wayne Schwartz	8-31-2017

APPLICATION FOR VARIANCE

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INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
402 West Washington Street, Room E 241
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/

INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number *(Assigned by department)*: 17-12-08(d)

1. APPLICANT INFORMATION *(Person who would be in violation if variance is not granted; usually this is the owner)*

Name of the applicant	Title
	Board member
Name of organization: Whispering Knoll School	Telephone number: (574) 773-0643
Address *(number and street, city, state, and ZIP code)*	

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT *(If not submitted by the applicant)*

Name of person on behalf of the applicant: Jacob Beechy	Title: Agent
Name of organization: Whispering Knoll School	Telephone number: (574) 646-2069
Address *(number and street, city, state, and ZIP code)*: 7611 W 750 N Etna Green IN. 46524	

3. DESIGN PROFESSIONAL OF RECORD *(If applicable)*

Name of design professional	License number
Name of organization	Telephone number ( )
Address *(number and street, city, state, and ZIP code)*	

4. PROJECT IDENTIFICATION

Name of project: Whispering Knoll School	State project number	County: Marshall
Site address *(number and street, city, state, and ZIP code)*		

Type of project: ☑ New ☐ Addition ☐ Alteration ☐ Change of occupancy ☐ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application *(check as applicable)*:

- ☐ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. *(see instructions)*
- ☑ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☑ Written documentation showing that the local fire official has received a copy of the variance application.
- ☑ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes *(if yes, attach a copy of the Correction Order)* ☐ No

Has a violation been issued? ☐ Yes *(if yes, attach a copy of the Violation and answer the following)* ☐ No

Violation issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved: 2014 Indiana Building Code

Specific code section: 903.2, f

Nature of non-compliance *(include a description of spaces, equipment, etc. involved as necessary)*

This is a mixed use E/R-3 occupancy building. The automatic sprinkler system required by IBC 903.2.7 will not be installed in this building.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

☐ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or

☒ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate *(be specific)*.

Facts demonstrating that the above selected statement is true:

This is a one room school with a classroom occupant load of less than 50 and a single occupant studio type apartment for the teacher to use during the school week. In addition to those items required by code, the following will be installed:
1. A long-life battery operated smoke and heat detection system with interconnected alarms alarms will be installed throughout the building.
2. A second exit door from the classroom area will be installed.
3. Highly reflective exit signs will be at all interior and exterior exit doors.
In addition, there will be no open flames allowed in the classroom area.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of physical limitations of the construction site or its utility services.

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of major operational problems in the use of the building or structure.

☒ Imposition of the rule would result in an undue hardship *(unusual difficulty)* because of excessive costs of additional or altered construction elements.

☐ Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

This is a mixed use private Amish school with the following constraints:
1. This school is in a rural location with no readily available source of water for the sprinkler system.
2. Excessive costs would be incurred to install an oversize well, storage tanks and a dry pipe system to install sprinklers for a single efficiency apartment.
3. An electric well pump would be required on a property not served by commercial electricity.
4. Any attempt to provide separation between the E and R-3 would not be desirable or practical for the use of the building.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

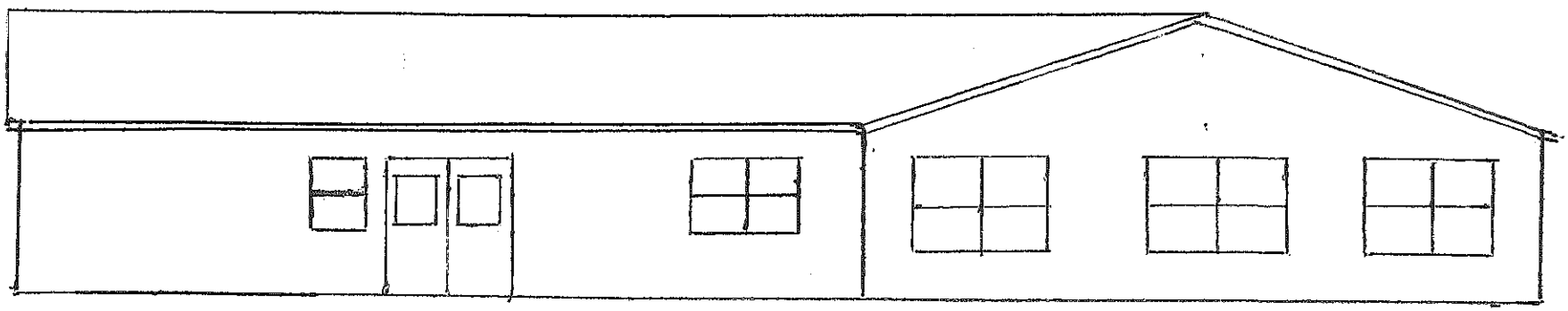
Signature of applicant or person submitting application	Please print name	Date of signature *(month, day, year)*
Jacob Beechy	Jacob Beechy	8-31-2017
Signature of design professional *(if applicable)*	Please print name	Date of signature *(month, day, year)*

11. STATEMENT OF AWARENESS *(If the application is submitted on the applicant's behalf, the applicant must sign the following statement)*

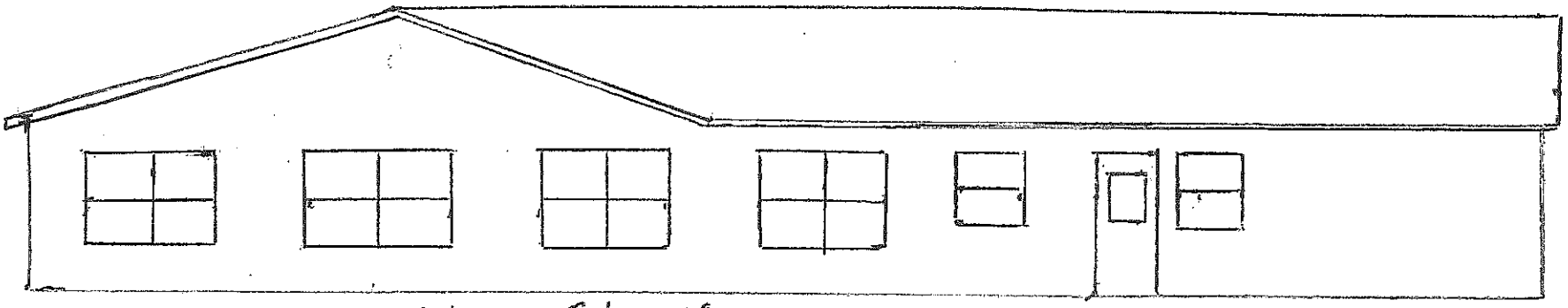
I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant	Please print name	Date of signature *(month, day, year)*
Wayne Schwartz	Wayne Schwartz	8-31-2017

Whispering Knoll School

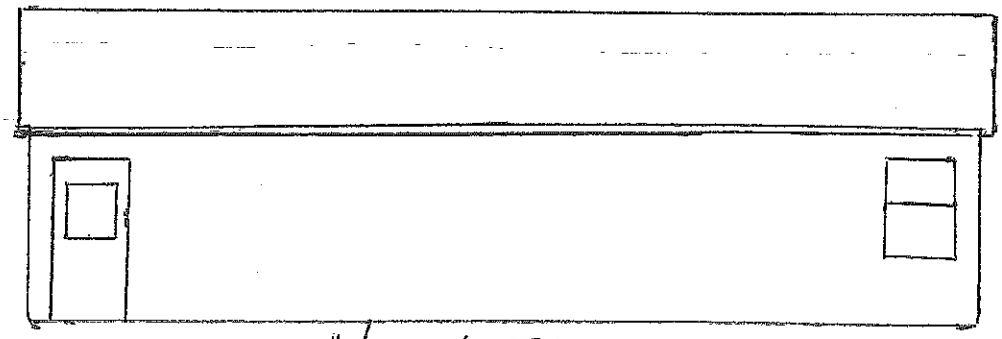


East Elevation

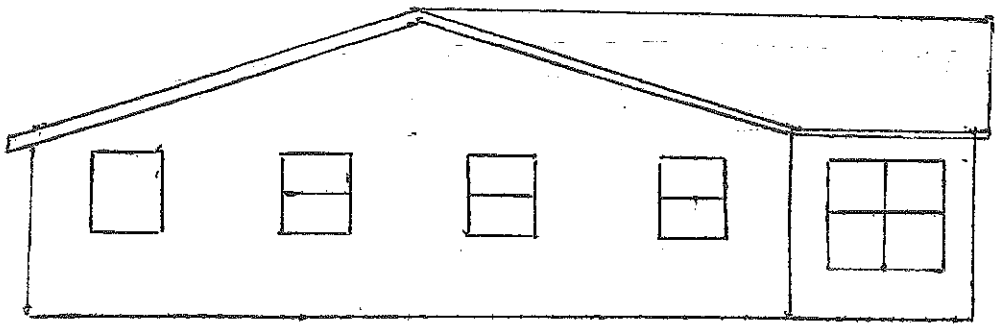


West Elevation

Whispering Knoll School



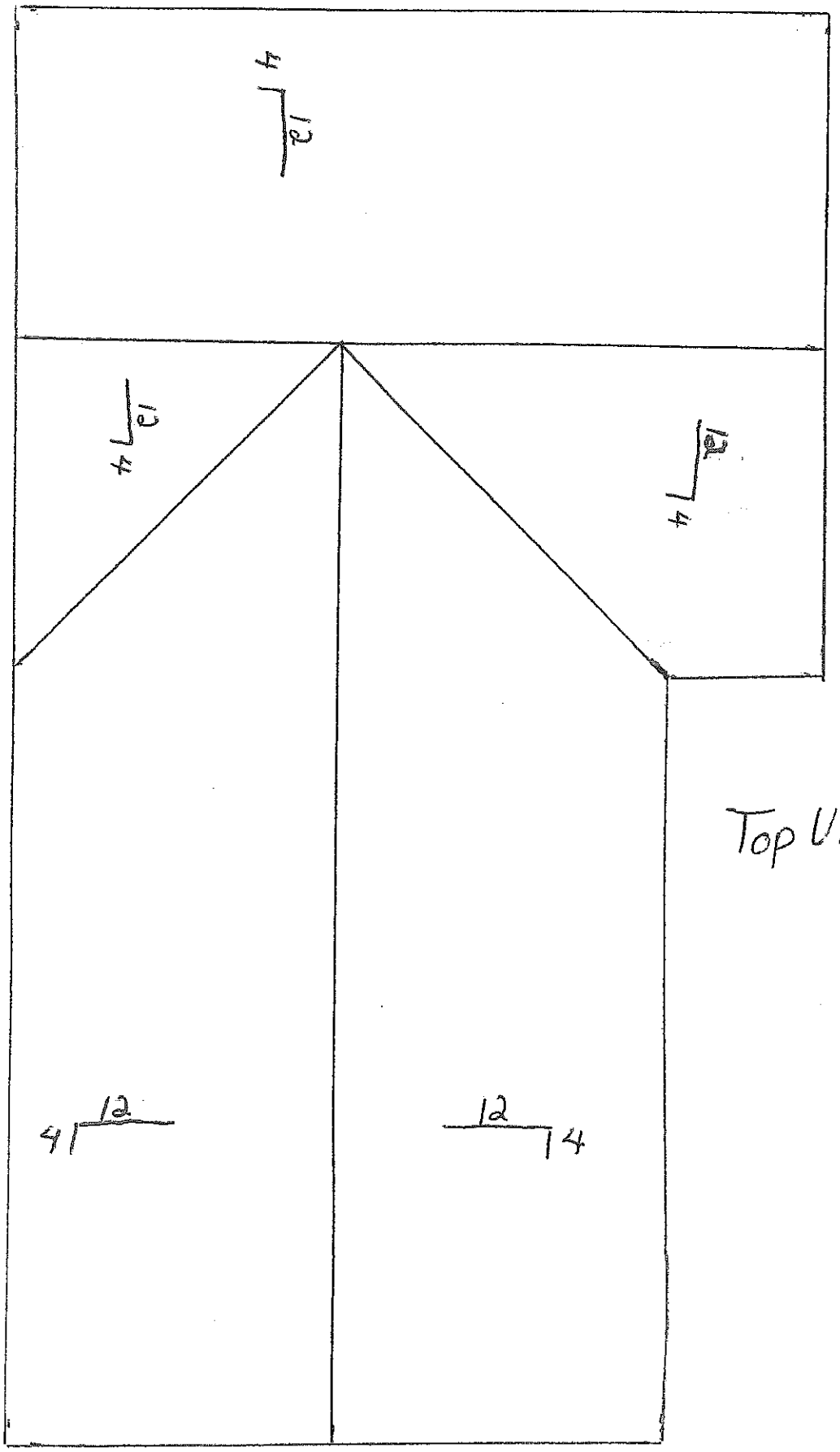
North Elevation



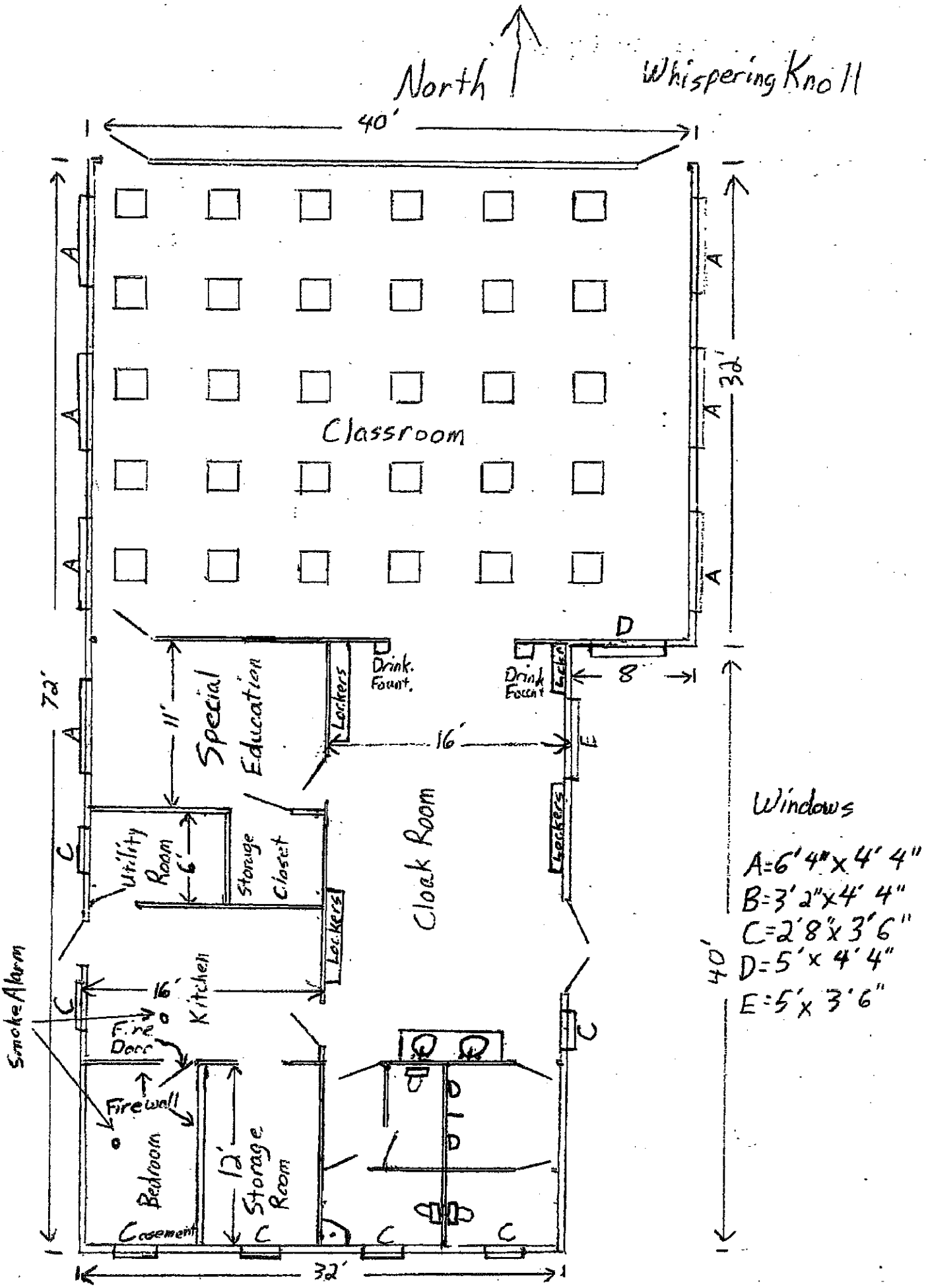
South Elevation

Whispering Knoll School

North

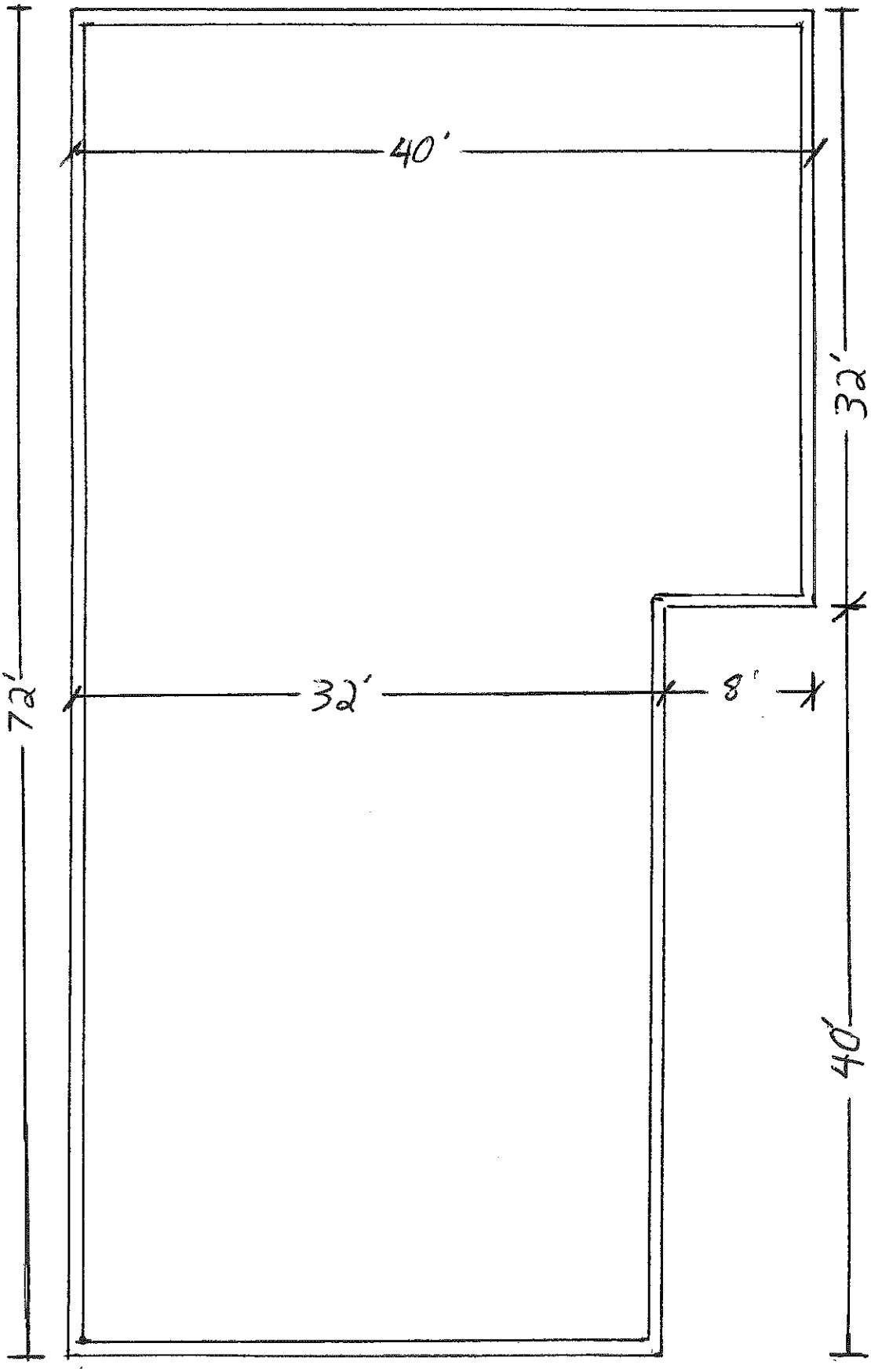


Top View

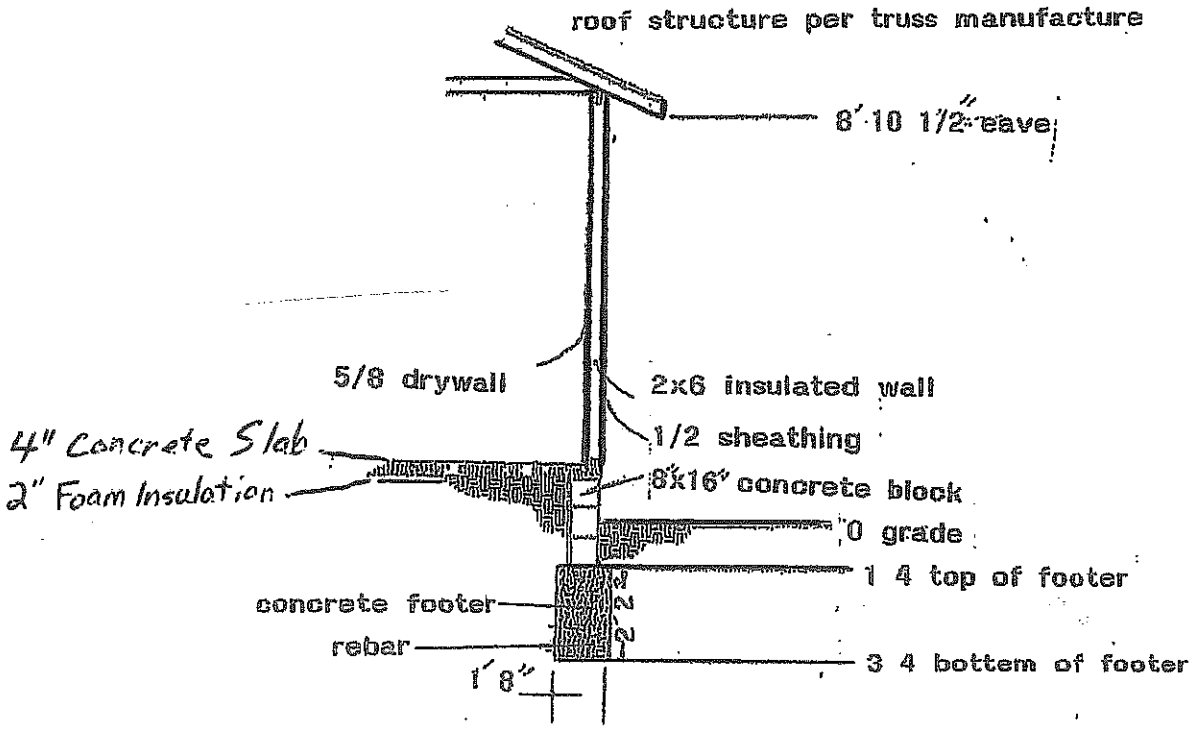

North
Whispering Knoll
40'
32'
72'
40'
Classroom
Special Education
11'
Drink. Fount.
Lockers
16'
Drink Fount
Locker
8
Utility Room
6'
Storage Closet
Lockers
Cloak Room
Lockers
16'
Kitchen
Smoke Alarm
Fire Door
Firewall
Bedroom
12'
Storage Room
Casement
32'
Windows
A=6'4" x 4'4"
B=3'2" x 4'4"
C=2'8" x 3'6"
D=5' x 4'4"
E=5' x 3'6"

Whispering Knoll School

Foundation Plan

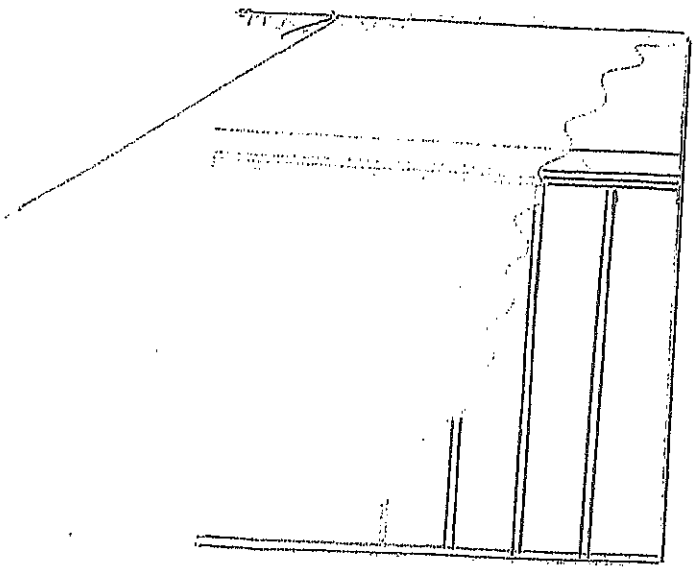


Whispering Knoll School



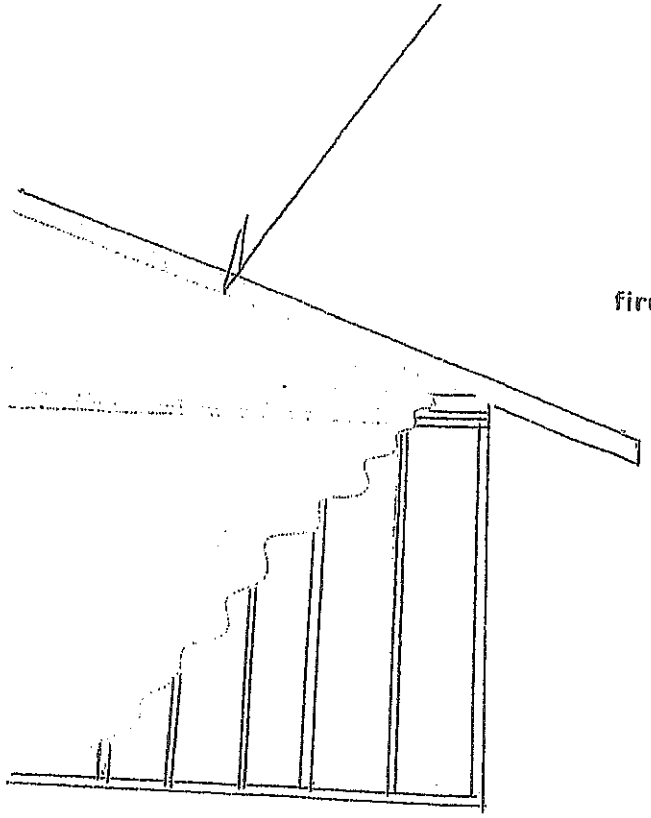
Whispering Knoll School

FIREWALL DETAIL PG 3B



firewall at bedroom storage room seperation

5/8 drywall 2 sides extending to roof line



Firewall At Bedroom-Kitchen Separation

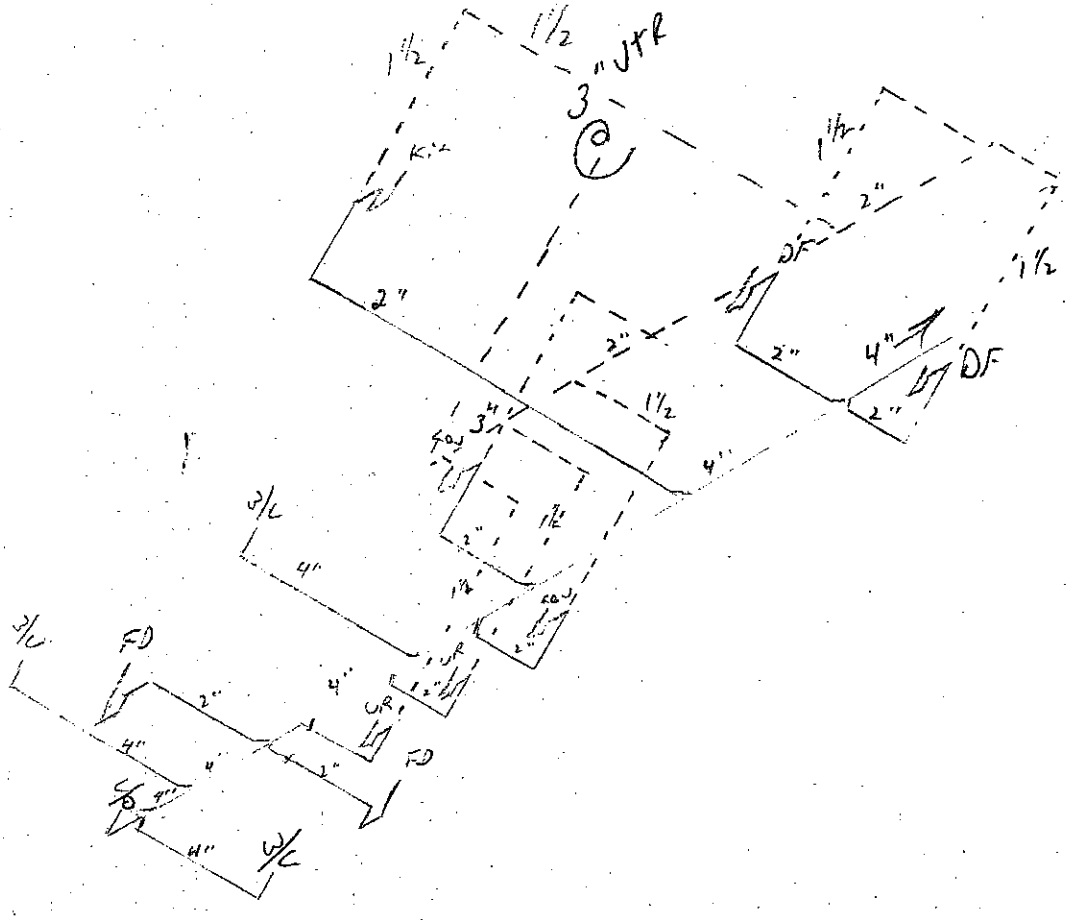
SCHROCK PLUMBING, INC

Menno Schrock (License #PC89200011) • Nathan Schrock (License #PC10400543)

Ph. 574-773-4194

30951 County Road 50 • Nappanee IN 46550

Whispering Knoll School



STRUCTURAL RENEWAL

KEYSTONE CERTIFICATIONS, INC.	Document Title: **Structural Performance Certification Authorization Report**	Doc No: FRM B1-02	
		Rev No: 6	Page: 1 Of: 1
Required By: PRO B1-03			

CAR & Product ID Number: 112 - 416.0
Issue Date: 7/31/2008
Revision Date: 7/10/2014
Expiration Date: 7/18/2018
Company Code: 112

This Certification Authorization Report (CAR) is issued by Keystone Certifications, Inc. (KCI) after full validation review of the product qualification documents for the product named below. This report is only valid when signed by an officer of KCI, and indicates the product as manufactured by the company named below has been tested and meets the requirements of the referenced standard and is eligible for the application of Keystone Certification Program certification labels. Licensee stipulates in affixing certification labels to products, that those products are representative of the specimen evaluated and documented for certification authorization. Only products bearing such a certification label shall be considered certified. The information in this report can be verified at www.keystonecerts.com.

Licensee Information:	Product Information:
American Window Alliance 1239 Erie Street North Kansas City MO 64116	Model: Windgate/Belmont Equal Lite Double Hung Operator Type: H Config: EM/IM Max Width: 48 Max Height: 72

Referenced Standard:	Product Rating:
AAMA/WDMA/CSA 101/IS2/A440-05	H-R15 1219x1829 (48x72)

Qualifying Test Information:	
Test Report No:	ATI-80489.02-501-47-R1
Test Report Expiration:	7/18/2018

Authorized Signature:

Digitally signed by Steven M. Urich
DN: cn=Steven M. Urich, o=Keystone Certifications, Inc., ou, email=surich@keystonecerts.com, c=US
Date: 2014.07.15 11:25:48 -04'00'

Keystone Certifications, Inc.
564 Old York Road, Suite 5
Etters, Pennsylvania 17319
Phone: 717-932-8500
Fax: 717-932-8501

THERMAL PERFORMANCE RENEWAL

KEYSTONE CERTIFICATIONS, INC.
564 OLD YORK ROAD, SUITE 5
ETTERS, PA 17319 / PHONE 717-932-8500

Notice of Product Certification Authorization

National Fenestration Rating Council

Issued To:

Manufacturer: American Window Alliance
Address: 1600 North Jackson Avenue
Kansas City MO 64120
Man'f Code AMW
Cert Date: 7/23/2002

Certification Number
1618
Product Line Number
AMW - K - 006
Revision Date
12/16/2015

The Following NFRC Product Line Has Been Authorized For Certification:

Model / Series: Windgate/Belmont/Stormgate/Hawthorne Double Hung
Operator Type: VSDH
Frame Type: VY,VF
Sash Type: VI,VA,VP
Exp. Date: 12/14/2018

Ratings Authorized For Certification:

Rating	Property	Authorized
NFRC 100	U-factor	☑
NFRC 200	Solar Heat Gain Coefficient	☑
NFRC 200	Visible Light	☑
NFRC 400	Air Leakage	☑
NFRC 500	Condensation Resistance	☑

Fenestration products are not NFRC Certified unless manufactured and labeled in accordance with the current version of NFRC-700, Product Certification Program requirements.

This is a cover sheet for an NFRC Certification Authorization Report (CAR)

the corresponding CAR may be downloaded for printing at www.nfrc.org.

The Manufacturer is authorized to label the options listed in the corresponding CAR

Please notify Keystone of any errors or omissions within 10 days of receipt.

Bremen Volunteer Fire Department
123 S. Center St. • Bremen, Indiana 46506 •

September 14, 2017

To whom it may concern:

I received a copy of the variances in the attached pages for the Whispering Knoll School.

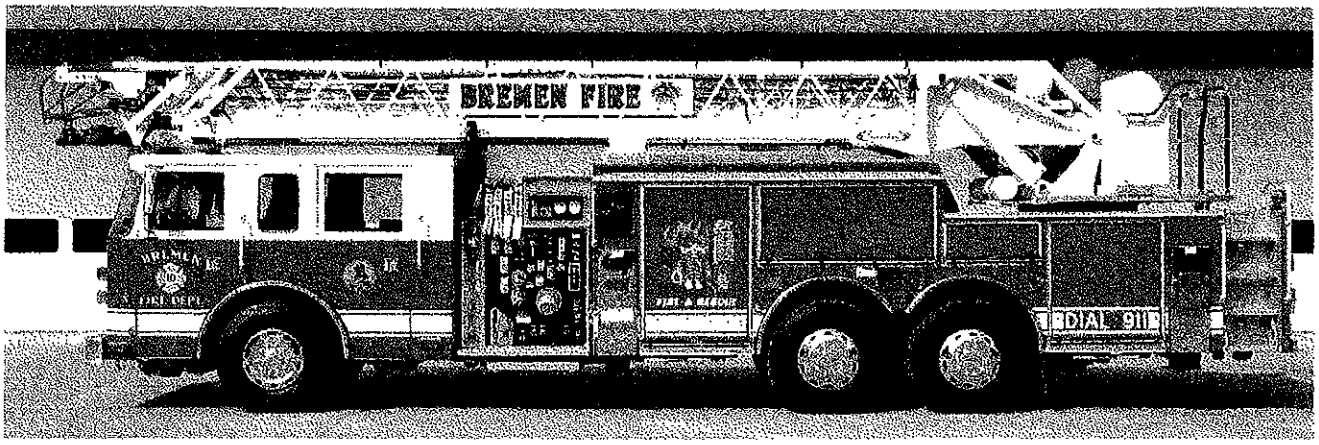
If you have any questions or concerns, please feel free to give me a call.

Thank You

Matthew Neher

Matt Neher
Fire Chief
Bremen Fire Department
123 S Center Street
Bremen, IN 46506
Phone #: (574) 546-3660

BREMEN FIRE STATION



DIRECT NUMBER: (574) 546-3660
CELL NUMBER: (574) 527-9001
FAX: (574) 546-5223

FAX Communication Cover Letter

☐ **Confidential - Eyes Only Addressee**

To:	**Jake Beechy**	**Date:**	**9/14/2017**
Fax#:	**(574) 646-2098**	**Time:**	**11:00 PM**
From:	**Matthew Neher**	**Total Pages:**	**2**
Department:		(Including Cover)	

Message: **Letter of variance.**

Handling Instructions:
High Priority - Deliver Immediately
If you do not receive all the pages, please call back as soon as possible.

Marshall County Building Department
Chuck DeWitt, Building Commissioner
112 W. Jefferson Room 302
Plymouth, IN 46563
574-935-8531

September 18, 2017

To Whom It May Concern,

I have received a copy of the Application for Variance for not installing sprinklers, manual fire alarms, making exit lighting modifications and elimination of vestibule requirements to Whispering Knoll School.

Respectfully,

Chuck DeWitt

Chuck DeWitt
Marshall County Building Commissioner

08-14-17:01:00PM:

Non
Itemized

Borkholder Buildings and Supply

P.O. Box 32 U.S. 6 West
Nappanee, IN 46550
Phone: (574) 773-3144 Fax: (574) 773-2897

DATE 8/11/17

Quote ID	Account ID	Salesperson	Designer	Order Date	Required Date	Shipped Date	Ship Via
B081701547		Arlin	AS	/ /	/ /	/ /	

Bill To: Hastings

Ship To:

(574) 930-6490

Job Name: Whispering Knoll School
Lot # SUBDIV:

NOTES:
Quote is good for only 15 DAYS and subject to Borkholders terms and conditions. Refer to WTCA 4-2002 for Design Responsibilities. Wood truss quote only. No hand framing or bracing included.

ROOF TRUSSES

PROFILE	QTY	PITCH		TYPE ID	SPAN	LOAD Spacing	LUMBER		OVERHANG		CANTILEVER		STUB		
	PLY	TOP	BOT				TOP	BOT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
	1	4.00	2.00	GABLE S01	32-00-00	50.0 24"	2 X 6	2 X 4	01-00-00	01-00-00					
	3	4.00	2.00	SCISSOR S02	32-00-00	50.0 24"	2 X 6	2 X 4	01-00-00	01-00-00					
	16	4.00	2.00	SCISSORS S03	32-00-00	50.0 24"	2 X 6	2 X 4	01-00-00						
	1	4.00	2.00	GABLE S04	32-00-00	50.0 24"	2 X 6	2 X 4	01-00-00						
	1	4.00	0.00	GABLE T01	32-00-00	50.0 24"	2 X 6	2 X 4	01-00-00	01-00-00					
	20	4.00	0.00	COMMON T02	32-00-00	50.0 24"	2 X 6	2 X 4	01-00-00	01-00-00					

ITEMS

QTY	ITEM TYPE	DESCRIPTION	LENGTH FT-IN-16	NOTES
1	Miscellaneous	Layout		
1	Miscellaneous	Truss Packet		

ACCEPTED BY SELLER

BY: _____

TITLE: _____

DATE OF ACCEPTANCE: _____

ACCEPTED BY BUYER

PURCHASER: _____

BY: _____ TITLE: _____

ADDRESS: _____

_____

PHONE: _____ DATE: _____

SUB-TOTAL	$4,986.25
DISCOUNT	$879.52
SUB-TOTAL	$4,106.73
DELIVERY	$50.00
SUB-TOTAL	$4,156.73
SALES TAX 7.000%	$290.97
GRAND TOTAL	$4,447.70
3% Net 10 days	$123.20
Total:	$4,324.50

Thank you for your order.

Job	Truss	Truss Type	Qty	Ply	Hastings- Whispering Knoll School
E091701547	T02	Common	20	1	Job Reference (optional)

Bonkholder Building & Supply, Nappanee, IN 46550 AS

8.100 s Mar 9 2017 MiTek Industries, Inc. Fri Aug 11 10:32:43 2017 Page 1

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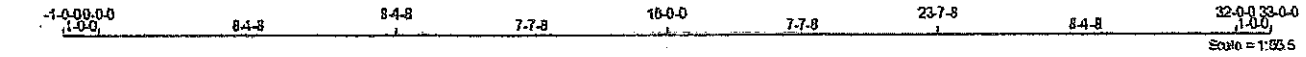

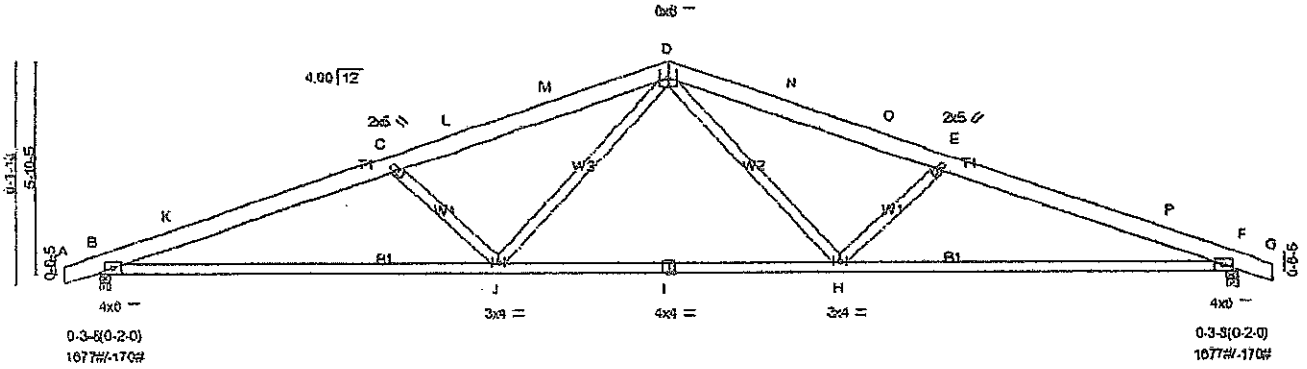

0-0-0	11-2-5	11-2-5	9-7-7	20-0-11	11-2-5	32-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.36	F-H	>999	240	MT20	244/190
Snow (Pf/Pg)	25.4/30.0	Lumber DOL	1.15	BC	0.98	Vert(TL)	-0.07	F-H	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.17	F	n/a	n/a		
BCLL	0.0	Code IBC2012/TPI2007		Matrix-S							Weight: 164 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1521/0-3-8 (min. 0-2-0), F=1521/0-3-8 (min. 0-2-0)
Max Horz B=-90(LC 14)
Max Uplift B=-170(LC 16), F=-170(LC 16)
Max Grav B=1677(LC 2), F=1677(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-K=-3708/449, C-K=-3041/473, C-L=-3190/370, L-M=-3087/383, D-M=-3079/396, D-N=-3079/397, N-O=-3087/383, E-O=-3190/370, E-F=-3041/473, F-P=-3708/449
BOT CHORD B-J=-375/3430, I-J=-181/2318, H-I=-181/2318, F-H=-380/3430
WEBS D-H=-45/961, B-H=-731/234, D-J=-45/961, C-J=-731/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. III; Exp C; enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-2-0, Interior(1) 2-2-0 to 16-0-0, Exterior(2) 16-0-0 to 19-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=25.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp C; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.4 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint B and 170 lb uplift at joint F.
8) This truss is designed in accordance with the 2012 International Building Code section 2303.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hastings Whispering Knoll School
B09170547	T01	GABLE	1	1	Job Reference (optional)

Barkhicider Building & Supply, Nappanee, IN 46550, AS

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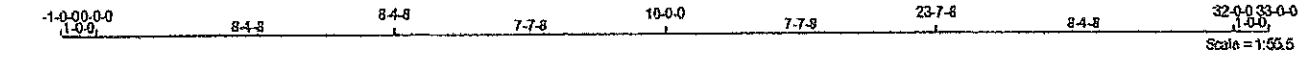

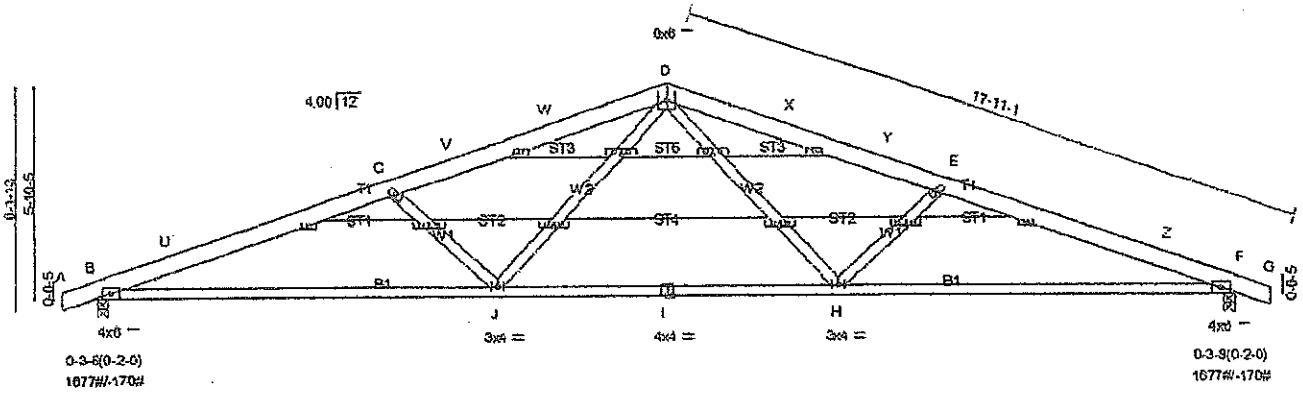

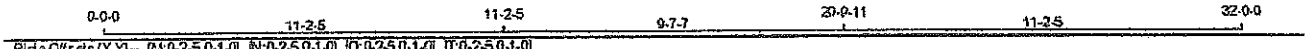

Plate Offsets (X,Y)-- [M:0-2-5,0-1-0], [N:0-2-5,0-1-0], [O:0-2-5,0-1-0], [T:0-2-5,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.36	F-H	>999	240	MT20	244/190
Snow (Pf/Pg)	25.4/30.0	Lumber DOL	1.15	BC	0.96	Vert(TL)	-0.07	F-H	>392	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.17	F	n/a	n/a		
BCLL	0.0	Code IBC2012/TPI2007		Matrix-S							Weight: 208 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1521/0-3-8 (min. 0-2-0), F=1521/0-3-8 (min. 0-2-0)
Max Horz B=-50(LC 14)
Max Uplift B=-170(LC 16), F=-170(LC 16)
Max Grav B=1677(LC 2), F=1677(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-U=-3709/1023, C-U=-3641/1048, C-V=-3198/885, V-W=-3087/898, D-W=-3079/912, D-X=-3079/912, X-Y=-3097/898, E-Y=-3190/885, E-Z=-3641/1049, F-Z=-3709/1023
BOT CHORD B-J=-903/3430, I-J=-513/2318, H-I=-513/2318, F-H=-903/3430
WEBS D-H=-177/981, E-H=-731/378, D-J=-177/981, C-J=-731/378

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=2ft; Cat. III; Exp C; enclosed; MWFRS (directional) and C-C Corner(3) -1-0-0 to 2-2-8, Exterior(2) 2-2-8 to 18-0-0, Corner(3) 18-0-0 to 19-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=25.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp C; Partially Exp.; Ct=1.1
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.4 psf on overhangs non-concurrent with other live loads.
7) All plates are 2x5 MT20 unless otherwise indicated.
8) Horizontal gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint B and 170 lb uplift at joint F.
11) This truss is designed in accordance with the 2012 International Building Code section 2308.1 and referenced standard ANSI/TP

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hastings Whispering Knoll School
B0817701547	S04	GABLE	1	1	Job Reference (optional)

Bondfolder Building & Supply, Nappanee, IN 46550, AS

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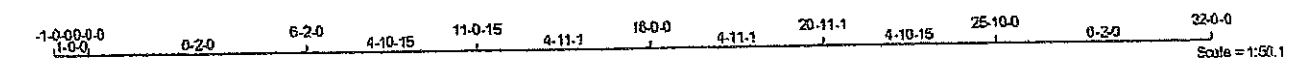
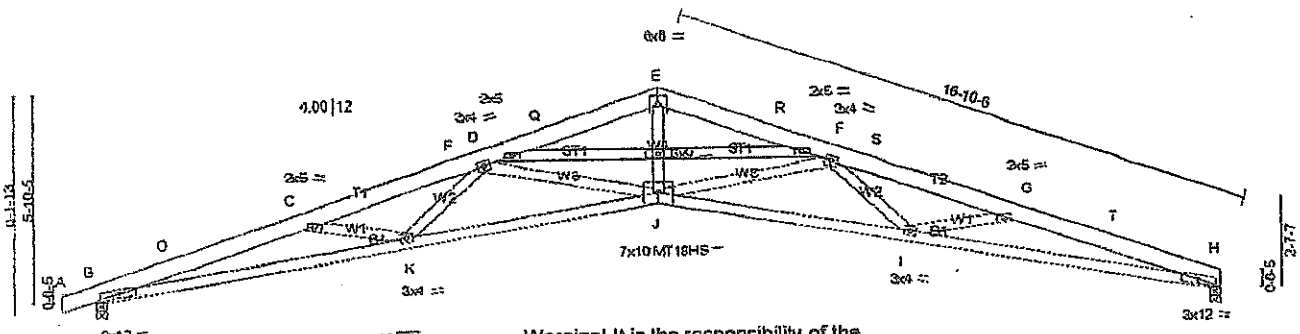
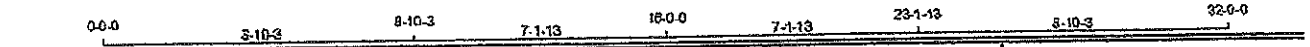




Warning! It is the responsibility of the Building Designer to verify that the calculated deflections are acceptable.



LOADING (psf)		SPACING-	3-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.65	I-J	>587	240	MT20	244/190
Snow (Pf/Pg)	25.4/20.0	Lumber DOL	1.15	BC	0.73	Vert(TL)	-1.33	J-K	>287	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.69	H	n/a	n/a		
BCLL	0.0	Code IBC2012/TPI2007		Matrix-S							Weight: 179 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-11 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) H=1438/0-3-8 (min. 0-1-8), B=1622/0-3-8 (min. 0-1-8)
Max Horz B=80(LC 15)
(Max Uplift H=-127(LC 16), B=-171(LC 16)
Max Grav H=1584(LC 2), B=1679(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-O=-6535/752, C-O=-6457/785, C-P=-6103/625, D-P=-5000/637, D-Q=-4751/527, E-Q=-4691/539, E-R=-4691/543, F-R=-4751/536, F-S=-6116/650, G-S=-6211/640, G-T=-6498/620, H-T=-6571/608
BOT CHORD B-K=-688/6154, J-K=-563/5665, I-J=-551/5673, H-I=-722/6191
WEBS E-J=-210/2559, F-J=-1254/215, F-I=0/466, G-I=-358/222, D-J=-1241/214, D-K=0/491, C-K=-338/180

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. III; Exp C; enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-2-0, Interior(1) 2-2-0 to 16-0-0, Exterior(2) 16-0-0 to 19-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=25.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp C; Partially Exp; Ct=1.1
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.4 psf on overhangs non-concurrent with other live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) Horizontal gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Bearing at joint(s) H, B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building c
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at j
12) This truss is designed in accordance with the 2012 International Building Code section 2308.1 and referenc

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hastings- Whispering Knoll School
B081701547	S03	SCISSORS	16	1	Job Reference (optional)

Borkholder Building & Supply, Nappanee, IN 46550, AS 8.100 s Mar 9 2017 MiTek Industries, Inc. Fri Aug 11 10:32:39 2017 Page 1
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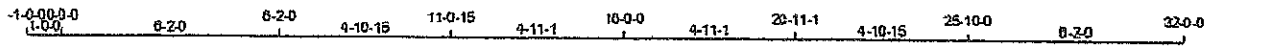

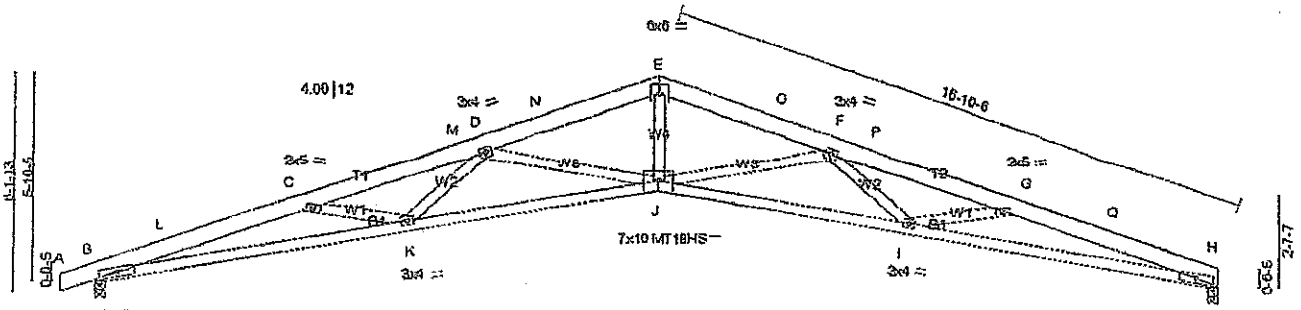

Warning! It is the responsibility of the Building Designer to verify that the calculated deflections are acceptable.

0-0-0 8-10-3 8-10-3 7-1-13 16-0-0 7-1-13 23-1-13 8-10-3 32-0-0

LOADING (psf)		SPACING-	24-0	CSI.		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.65	I-J	>587	240	MT20	244/190
Snow (Pf/Pg)	25.4/30.0	Lumber DOL	1.15	BC	0.71	Vert(TL)	-1.33	J-K	>287	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.69	H	n/a	n/a		
BCLL	0.0	Code IBC2012/TPI2007		Matrix-S							Weight: 168 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-11 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) H=1438/0-3-8 (min. 0-1-8), B=1522/0-3-8 (min. 0-1-8)
Max Horz B=60(LC 15)
Max Uplift H=-127(LC 16), B=-171(LC 16)
Max Grav H=1584(LC 2), B=1679(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-L=-5335/752, C-L=-6467/765, C-M=-6193/825, D-M=-6000/837, D-N=-4751/527, E-N=-4691/538, E-O=-4691/546, F-O=-4751/536, F-P=-6116/650, G-P=-6211/610, G-Q=-6498/620, H-Q=-6571/609
BOT CHORD B-K=-668/6154, J-K=-563/5665, I-J=-554/5573, H-I=-728/6191
WEBS E-J=-210/2569, F-J=-1254/215, F-I=0/495, G-I=-359/222, D-J=-1241/214, D-K=0/491, C-K=-339/198

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. III; Exp C; enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-2-0, Interior(1) 2-2-0 to 16-0-0, Exterior(2) 16-0-0 to 19-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=25.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp C; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.4 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Bearing at joint(s) H, B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint H and 171 lb uplift at joint B.
10) This truss is designed in accordance with the 2012 International Building Code section 2308.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hastings- Whispering Knoll School
B091701547	S02	Sasser	3	1	Job Reference (optional)

Berkholder Building & Supply, Nappanee, IN 46550 AS

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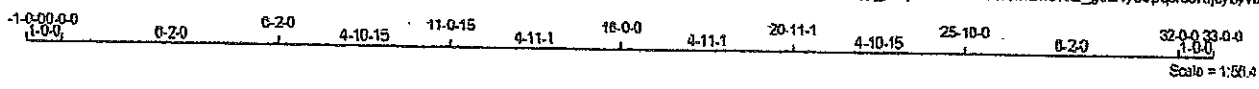
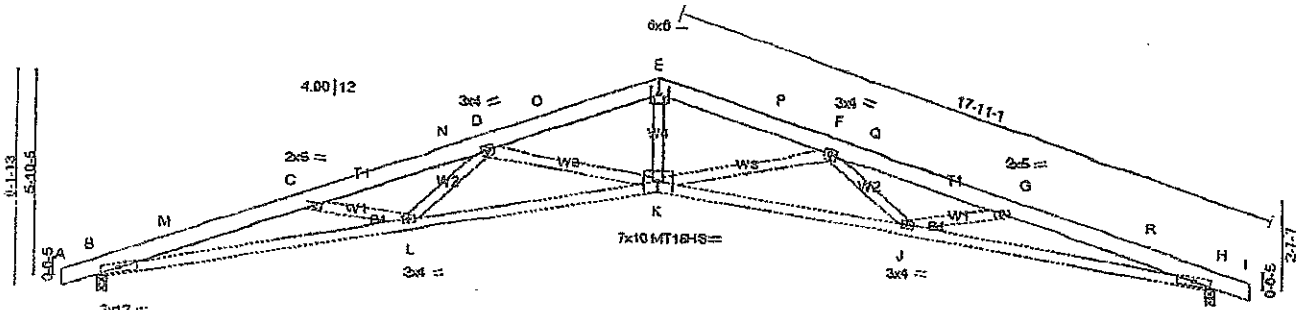
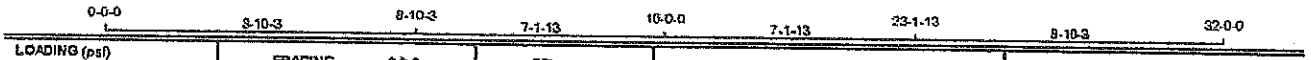




Warning! It is the responsibility of the Building Designer to verify that the calculated deflections are acceptable.



LOADING (psf)		SPACING-	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.65	J-K	>590	240	MT20	244/190
Snow (Pf/Pg)	25.4/30.0	Lumber DOL	1.15	BC	0.70	Vert(TL)	-1.32	J-K	>288	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.69	H	n/a	n/a		
BCLL	0.0	Code IBC2012/TPI2007		Matrix-S							Weight: 169 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1521/0-3-8 (min. 0-1-8), H=1521/0-3-8 (min. 0-1-8)
Max Horz B=-90(LC 14)
Max Uplift B=-170(LC 16), H=-170(LC 16)
Max Grav B=1677(LC 2), H=1677(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-M=-6527/733, C-M=-6449/745, C-N=-6184/804, D-N=-6089/815, D-O=-4741/517, E-O=-4681/529, E-P=-4681/525, F-P=-4741/513, F-Q=-6089/819, G-Q=-6184/808, G-R=-6449/748, H-R=-6527/738
BOT CHORD B-L=-681/6140, K-L=-535/5850, J-K=-543/5658, H-J=-668/6140
WEBS E-K=-109/3554, F-K=-1247/215, F-J=0/491, G-J=-338/187, D-K=-1247/215, D-L=0/491, C-L=-338/187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. III; Exp C; enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-2-0, Interior(1) 2-2-0 to 16-0-0, Exterior(2) 16-0-0 to 19-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=25.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp C; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.4 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Bearing at joint(s) B, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint B and 170 lb uplift at joint H.
10) This truss is designed in accordance with the 2012 International Building Code section 2308.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hastings Whispering Knoll School
B0817015-47	S01	GABLE	1	1	Job Reference (optional)

Borkholder Building & Supply, Nappanee, IN 46550, AS

8.150 s Mar 6 2017 MiTek Industries, Inc. Fri Aug 11 10:32:30 2017 Page 1
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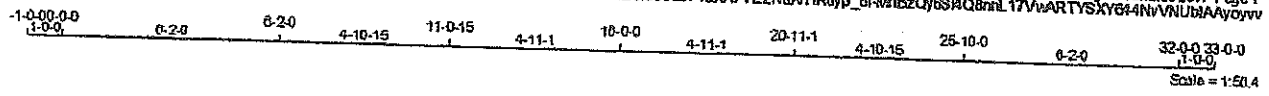
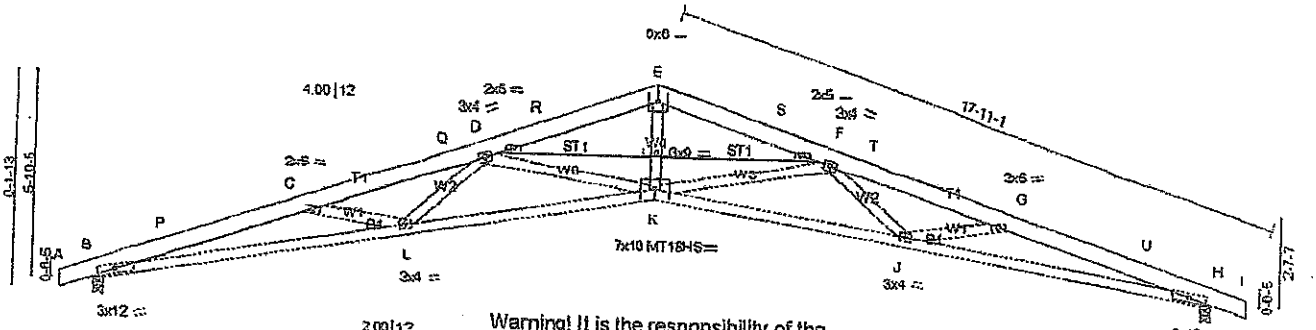
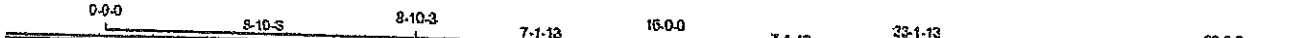




Warning! It is the responsibility of the Building Designer to verify that the calculated deflections are acceptable.



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.65	J-K	>590	240	MT20	244/190
Snow (Pf/Pg)	25.4/30.0	Lumber DOL	1.15	BC	0.76	Vert(TL)	-1.32	J-K	>288	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.60	H	n/a	n/a		
BCLL	0.0	Code IBC2012/TPI2007		Matrix-S							Weight: 182 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1521/0-3-8 (min. 0-1-8), H=1521/0-3-8 (min. 0-1-8)
Max Horz B=-60(LC 14)
Max Uplift B=-170(LC 16), H=-170(LC 16)
Max Grav B=1677(LC 2), H=1677(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-P=-6527/733, C-P=-6149/745, C-Q=-6184/804, D-Q=-5969/815, D-R=-4741/517, E-R=-4681/529, E-S=-4681/525, F-S=-4741/513, F-T=-5969/819, G-T=-6184/808, G-U=-6149/748, H-U=-6527/736
BOT CHORD B-L=-661/6146, K-L=-535/5653, J-K=-543/5650, H-J=-650/6146
WEBS E-K=-199/2554, F-K=-1247/215, F-J=0/491, G-J=-338/187, D-K=-1247/215, D-L=0/491, C-L=-338/187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=93mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=33ft; eave=4ft; Cat. III; Exp C; enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-2-8, Interior(1) 2-2-8 to 16-0-0, Exterior(2) 16-0-0 to 19-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=25.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp C; Partially Exp.; Ct=1.1
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.4 psf on overhangs non-concurrent with other live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) Horizontal gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Bearing at joint(s) B, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint B and 170 lb uplift at joint H.
12) This truss is designed in accordance with the 2012 International Building Code section 2308.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard