

**BOARD OF COUNTY COMMISSIONERS**  
**SARPY COUNTY, NEBRASKA**

**RESOLUTION FLOOD PLAIN DEVELOPMENT**  
**Douglas P. Cook, 17117 Bojanski Dr. Bellevue, NE**

WHEREAS, pursuant to Neb. Rev. Stat. § 23-104 (Reissue 1997), the County has the power to do all acts in relation to the concerns of the County necessary to the exercise of its corporate powers; and,

WHEREAS, pursuant to Neb. Rev. Stat. § 23-103 (Reissue 1997), the powers of the County as a body are exercised by the County Board; and,

WHEREAS, the County Board of Commissioners has the authority to adopt a Zoning Regulation, which shall have the force and effect of law pursuant to Neb. Rev. Stat. § 23-114 (2004 Cum. Supp); and,

WHEREAS, said Zoning Regulations require the County Board of Commissioners to approve applications for development permits within any Flood Plain District; and

WHEREAS, Rebecca Horner, Planning Director has reviewed Douglas P. Cook's application for a Flood Plain Development Permit for compliance with the Zoning Regulations on the property legally described in the attached Exhibit A; and,

WHEREAS, said application includes an elevation certificate which is in compliance with Section 30, Flood Plain District of Zoning Regulations and further, the Natural Resources District has no objection to the development permit; and,

WHEREAS, the Planning Director has made a recommendation of approval as noted in the attached Exhibit A, which Exhibit A includes the Planning Director report and the elevation certificate, the Natural Resources District comments and a site plan on the subject property.

NOW, THEREFORE, BE IT RESOLVED BY THE SARPY COUNTY BOARD OF

COMMISSIONERS THAT the Flood Plain Development Permit Application for the property legally described in the attached Exhibit A is hereby approved.

Dated this 26<sup>th</sup> day of January, 2010.

Moved by Rich Jansen seconded by Rusty Hike, that the above Resolution be adopted. Carried.

YEAS:

NAYS:

ABSENT:

Rich Jansen  
Rich Jansen  
Tom Jones  
Tom Richard  
Patrick J. Thomas

none

none

ABSTAIN:

none



Debra J. Houghtaling  
County Clerk

Approved as to form:

[Signature]  
County Attorney

Sarpy County Board of Commissioners Report  
Staff Report Prepared: January 20, 2010  
County Board Meeting Date: January 26, 2010

Subject	Type	By
Floodplain Development Permit for a roof replacement on Lot 14, Hanson's Lakes located in the SW ¼ of Section 27, T13N, R13E of Sarpy County.	Resolution	Rebecca Horner, AICP Planning Director

This is a request for approval of a floodplain development permit at 17117 Bojanski Drive to replace a roof on an existing residence.

- Comprehensive Development Plan
  - The Sarpy County Development Structure Plan indicates this area as Urban Residential.
  
- Zoning
  - The existing zoning is RD-50.
  - The existing structure is non-conforming since it is located below the base flood elevation. Improvements to non-conforming structures are defined as either substantial improvements (where the cost of the improvement is 50% or more of the value of the structure) or non-substantial improvements. Improvements to non-conforming structures are cumulative.
  - The value of the existing structure is \$65,189 according to the Sarpy County Assessor.
  - The cost of construction, including labor, is estimated to be \$7,307.07.
  - The roof replacement is not considered a substantial improvement and no other prior improvements cause the roof replacement to be a cumulative substantial improvement.
  - The request is in conformance with the Flood Plain and Zoning Regulations.
  
- Natural Resources
  - The Natural Resources District indicated that if the roof replacement was a substantial improvement that the entire structure would need to be brought into conformance with the Flood Plain Regulation. The NRD has no objection to the request. Their comments are attached.
  
- Recommendation
  - For the reasons stated above I recommend approval to the flood plain development permit for a roof replacement on Lot 14, Hanson's Lakes located in the SW ¼ of Section 27 T13N, R13E, generally known as 17117 Bojanski Drive.

Respectfully submitted by:



Rebecca Horner, AICP  
Planning Director

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name <u>Doug Cook</u>	For Insurance Company Use: Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <u>17117 Bojanski Drive</u>	Company NAIC Number

City Bellevue State NE ZIP Code 68123

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)  
Lot 14, Hanson's Lakes, Sarpy County, NE

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Resd.

A5. Latitude/Longitude: Lat. 41°03'57"N Long. 95°56'47"W

Horizontal Datum:  NAD 1927  NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 9

A8. For a building with a crawlspace or enclosure(s):

- a) Square footage of crawlspace or enclosure(s) 626 sq ft
- b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade \_\_\_\_\_
- c) Total net area of flood openings in A8.b \_\_\_\_\_ sq in
- d) Engineered flood openings?  Yes  No

A9. For a building with an attached garage:

- a) Square footage of attached garage N/A sq ft
- b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A
- c) Total net area of flood openings in A9.b N/A sq in
- d) Engineered flood openings?  Yes  No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number <u>Bellevue</u>		B2. County Name <u>Sarpy</u>		B3. State <u>NE</u>	
B4. Map/Panel Number <u>31153C0205</u>	B5. Suffix <u>G</u>	B6. FIRM Index Date <u>Dec. 2, 2005</u>	B7. FIRM Panel Effective/Revised Date <u>Dec. 2, 2005</u>	B8. Flood Zone(s) <u>AE</u>	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) <u>976.0</u>

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

- FIS Profile  FIRM  Community Determined  Other (Describe) \_\_\_\_\_

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other (Describe) \_\_\_\_\_

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
Designation Date \_\_\_\_\_  CBRS  OPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction

\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.

Benchmark Utilized USGS Vertical Datum NAVD88

Conversion/Comments \_\_\_\_\_

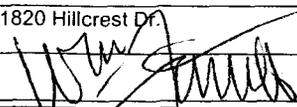
Check the measurement used.

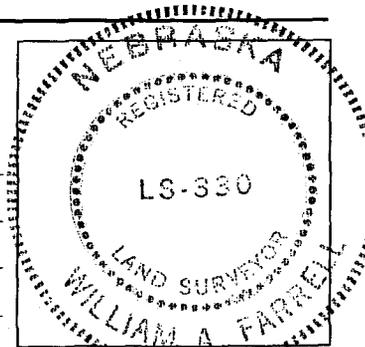
- a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 970.9  feet  meters (Puerto Rico only)
- b) Top of the next higher floor 974.4  feet  meters (Puerto Rico only)
- c) Bottom of the lowest horizontal structural member (V Zones only) \_\_\_\_\_  feet  meters (Puerto Rico only)
- d) Attached garage (top of slab) \_\_\_\_\_  feet  meters (Puerto Rico only)
- e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 971.9  feet  meters (Puerto Rico only)
- f) Lowest adjacent (finished) grade next to building (LAG) 971.6  feet  meters (Puerto Rico only)
- g) Highest adjacent (finished) grade next to building (HAG) 973.8  feet  meters (Puerto Rico only)
- h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support \_\_\_\_\_  feet  meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name <u>William A. Farrell</u>		License Number <u>330</u>	
Title <u>Registered Land Surveyor</u>	Company Name <u>Hill-Farrell Associates, Inc.</u>		
Address <u>1820 Hillcrest Dr.</u>	City <u>Bellevue</u>	State <u>NE</u>	ZIP Code <u>68005</u>
Signature 	Date <u>Dec. 02, 2009</u>	Telephone <u>(402) 291-6100</u>	



<b>IMPORTANT: In these spaces, copy the responding information from Section A.</b>	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 17117 Bojanski Dr.	Policy Number
City Bellevue State NE ZIP Code 68123	Company NAIC Number

**SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (HFA Project# 09-194) Benchmark used was USGS Y277. Brass disc located in top of concrete headwall north side of LaPlatte Rd. near southwest corner of Section 30, Township 13 North, Range 13 East, Sarpy County, Nebraska. Elevation 1016.52' (NAVD88)

Note: Lowest equipment servicing finished construction is A/C unit located on the east side of the House.

Signature

Date 12/02/09

Check here if attachments

**SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_  feet  meters  above or  below the HAG.  
b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_  feet  meters  above or  below the LAG.
- E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name \_\_\_\_\_

Address _____	City _____	State _____	ZIP Code _____
Signature _____	Date _____	Telephone _____	
Comments _____			

Check here if attachments

**SECTION G - COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

- G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3.  The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. Permit Number _____	G5. Date Permit Issued _____	G6. Date Certificate Of Compliance/Occupancy Issued _____
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- G7. This permit has been issued for:  New Construction  Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_  feet  meters (PR) Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_  feet  meters (PR) Datum \_\_\_\_\_
- G10. Community's design flood elevation \_\_\_\_\_  feet  meters (PR) Datum \_\_\_\_\_

Local Official's Name _____	Title _____
Community Name _____	Telephone _____
Date _____	

Comments \_\_\_\_\_

Check here if attachments

December 18, 2009

Rebecca Horner, Director  
Sarpy County Planning Department  
1210 Golden Gate Drive  
Papillion, NE 68046

JAN - 4 2010

SARPY COUNTY  
PLANNING DEPARTMENT



PL. 10-MISSOURI RIVER  
NATURAL  
RESOURCES  
DISTRICT

8901 S. 154th Street  
Omaha, NE 68138-3621  
402-444-6222  
[www.papionrd.org](http://www.papionrd.org)

RE: Doug Cook-17117 Bojanski Drive Application for Flood Plain Development Permit

Dear Ms. Horner:

The District received information concerning the proposed roof replacement on an existing residence on Lot 14 in Hanson's Lake located at 17117 Bojanski Drive in Bellevue, Nebraska. According to the Flood Insurance Rate Map for Sarpy County, Panel 31153C 0205 G, effective December 2, 2005, this property is located in the Zone AE floodplain of the Platte River. The base flood elevation (BFE) determined at this location is 976.0 ft (NAVD 1988).

The District has the following comments based on review of an elevation certificate prepared by William A. Farrell, R.L.S. on December 2, 2009 along with drawings of the proposed roof:

- As indicated on the elevation certificate, the lowest floor elevation for the existing residence is at an elevation of 974.4 ft. This is below the BFE. If the improvements are considered substantial (cost of the improvements greater than 50% of the market value of the property), the residence must be elevated at least one foot above the BFE.

If you have any questions or concerns, please contact me at 444-6222 or at [llaster@papionrd.org](mailto:llaster@papionrd.org).

Sincerely,

Lori Ann Laster  
Stormwater Management Engineer

Cc: Doug Cook, Applicant, 17117 Bojanski Dr., Bellevue, NE 68123  
Marlin Petermann, Amanda Grint, P-MRNRD

Z:\llaster\My Documents\Floodplain Development Permits\Plat 865\17117 Bojanski Dr.docx  
Project: 534 Plat: 865

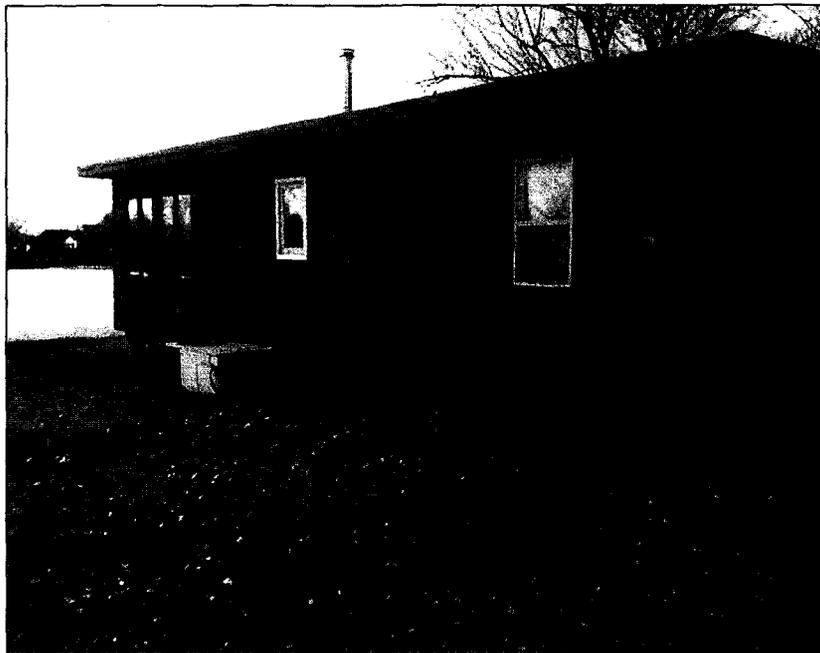
# Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 17117 Bojanski Drive	For Insurance Company Use: Policy Number
City Bellevue State NE ZIP Code 68123	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."

DATE TAKEN  
12-02-2009



LEFT VIEW



RIGHT VIEW

# Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 17117 Bojanski Drive	For Insurance Company Use: Policy Number
City Bellevue State NE ZIP Code 68123	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.

DATE TAKEN  
12-02-2009



FRONT VIEW



REAR VIEW

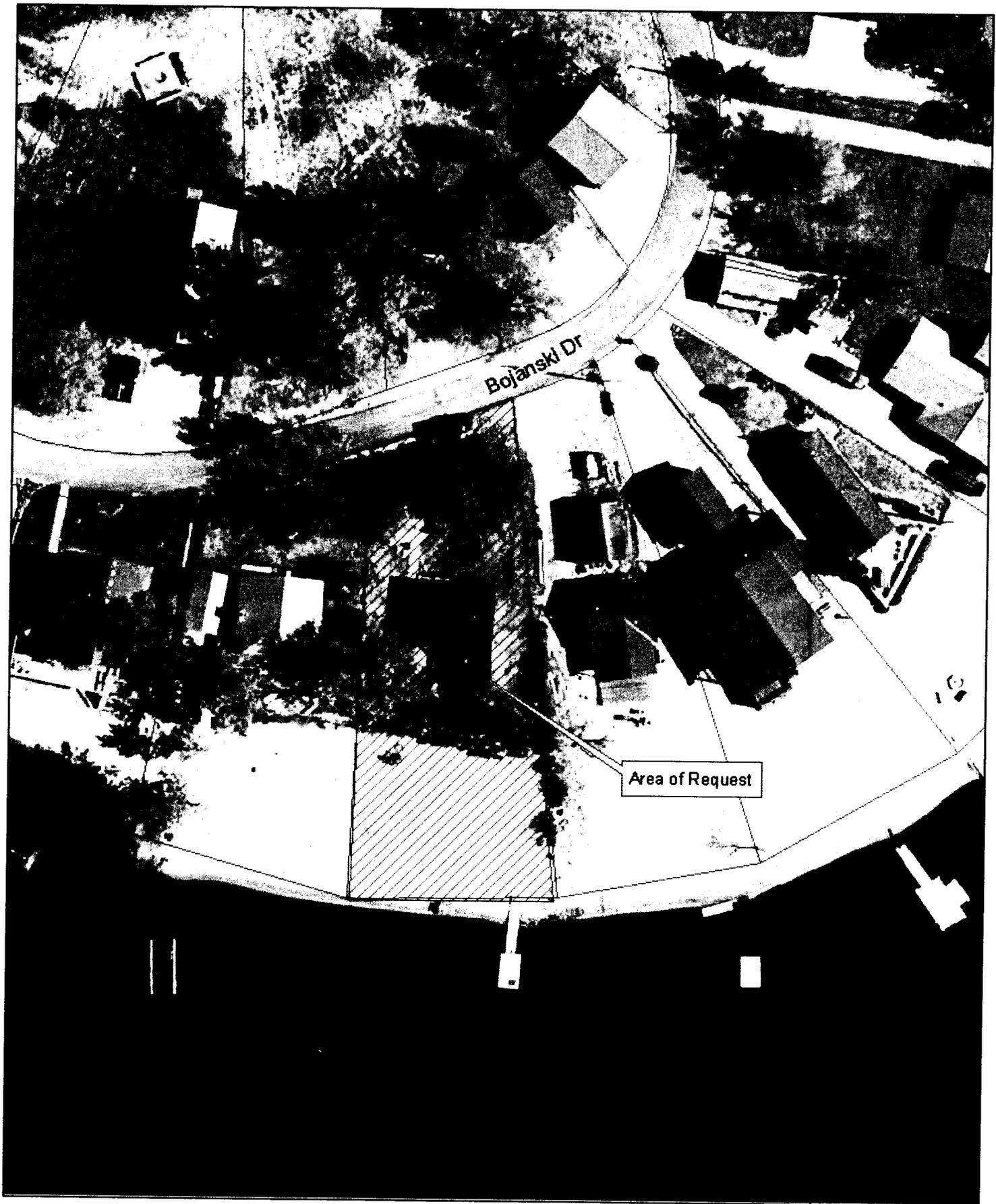
# **ADDITIONAL INFORMATION**

**SARPY COUNTY BOARD OF COMMISSIONERS**

**JANUARY 26, 2010**

**FLOOD PLAIN DEVELOPMENT PERMIT**

**DOUG COOK**



 17117 Bojanski Drive  
Flood Plain Development Permit



# SARPY COUNTY PLANNING

• 1210 GOLDEN GATE DRIVE PAPPILLION, NE 68046  
• PHONE: 402-593-1555 • FAX: 402-593-1558 • E-MAIL: [PLANNING@SARPY.COM](mailto:PLANNING@SARPY.COM)

## FLOOD PLAIN DEVELOPMENT PERMIT APPLICATION

In order for your application to be considered **COMPLETE**, please answer all applicable questions and provide the following:

1. Submit complete Flood Plain Development Permit Application
2. Submit Non-Refundable Fee of \$100.00 made payable to Sarpy County Treasurer
3. 2 full size site/construction plan drawing
4. 6 reduced size site/construction plan drawings (8.5 x 11)
5. Elevation Certificate (From registered professional engineer or architect.)

### PLANNING STAFF USE ONLY:

APPLICATION NO.: FPD 09-0029  
 DATE RECEIVED: \_\_\_\_\_  
 CP DESIGNATION: \_\_\_\_\_  
 ZONING DESIGNATION: \_\_\_\_\_  
 FEE: \$ \_\_\_\_\_ RECEIPT NO. \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_  
 NOTES: \_\_\_\_\_

### PROPERTY OWNER INFORMATION: (if multiple owners, attach separate sheet)

Please check box if attaching separate sheet with owner information.

NAME: Douglas P. Cook

E-MAIL: dpcook-2000@yahoo.com

ADDRESS: 17117 Bojanski Dr.

CITY/STATE/ZIP: BelleVue, NE 68123

MAILING (IF DIFFERENT)  
ADDRESS: 2908 Lynnwood Dr.

CITY/STATE/ZIP: BelleVue, NE 68123

PHONE: (402) 292-8884 (402) 578-3344

FAX: \_\_\_\_\_

### ENGINEER INFORMATION:

NAME: N/A

E-MAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY/STATE/ZIP: \_\_\_\_\_

MAILING (IF DIFFERENT)  
ADDRESS: \_\_\_\_\_

CITY/STATE/ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_

FAX: \_\_\_\_\_

### CONSTRUCTION INFORMATION: This individual/company is responsible for meeting construction standards.

NAME: Douglas P. Cook (owner)

E-MAIL: dpcook-2000@yahoo.com

ADDRESS: 2908 Lynnwood Dr.

CITY/STATE/ZIP: BelleVue, NE 68123

PHONE: (402) 292-8884

FAX: \_\_\_\_\_

**PROPOSED DEVELOPMENT INFORMATION:** (Describe the project in detail, including physical features of the site, proposed improvements, proposed uses or business, operating hours, number of employees, anticipated customers, etc. – Attach additional sheets if necessary.) **PLEASE NOTE:** A detailed project description is essential to the reviewing process of this request.

Replace the current flat tar roof with a hip roof and composition shingles.

**PROJECT SITE INFORMATION:** Complete each section in its entirety. If a question is not applicable to your project, please indicate this to show that each question has been carefully considered.

PROPERTY ADDRESS: 17117 Bojanski Drive, Bellevue, NE 68123  
ASSESSORS PARCEL NUMBER(S) 018753699  
SUB DIVISION: Hanson's Lakes LOT: 14  
NAME OF WATERWAY: Hanson's Lake III  
PROPERTY LIES WITHIN: FLOODWAY: AE FLOOD FRINGE: \_\_\_\_\_  
LOWEST FLOOR ELEVATION IS TO BE N/A FEET ABOVE MEAN SEA LEVEL. (Including Basement)

**LEGAL DESCRIPTION:** (Describe property to wit:)

Lot 14, Hanson's Lakes, Sarpy County, NE.

**ADDITIONAL INFORMATION:** Please use this space to provide any other information you feel is appropriate for the County to consider during review of your application. Attach extra sheets if necessary.

NONE

**PLEASE NOTE THE FOLLOWING PROCEDURES:**

1. County Board will hold a public hearing and make a final decision on the Flood Plain Development Permit.

I, the undersigned, understand a sign will be posted on my property and will remain until the public hearing process at the Planning Commission and County Board is complete. I further understand the Special Use Permit process as stated above and I authorize County Staff to enter the property for inspection related to the specific request during this process.

Douglas P. Cook  
Owner Signature (or authorized agent)

12/17/09  
Date

\_\_\_\_\_  
Owner Signature (or authorized agent)

\_\_\_\_\_  
Date

ESTIMATE FROM



Estimate # 67755  
Page 1 of 1

STORE # 3109 BELL  
10501 S. 21st Street  
Bellevue, NE 68123

PHONE: (402) 291-4111  
FAX: (402) 291-1996

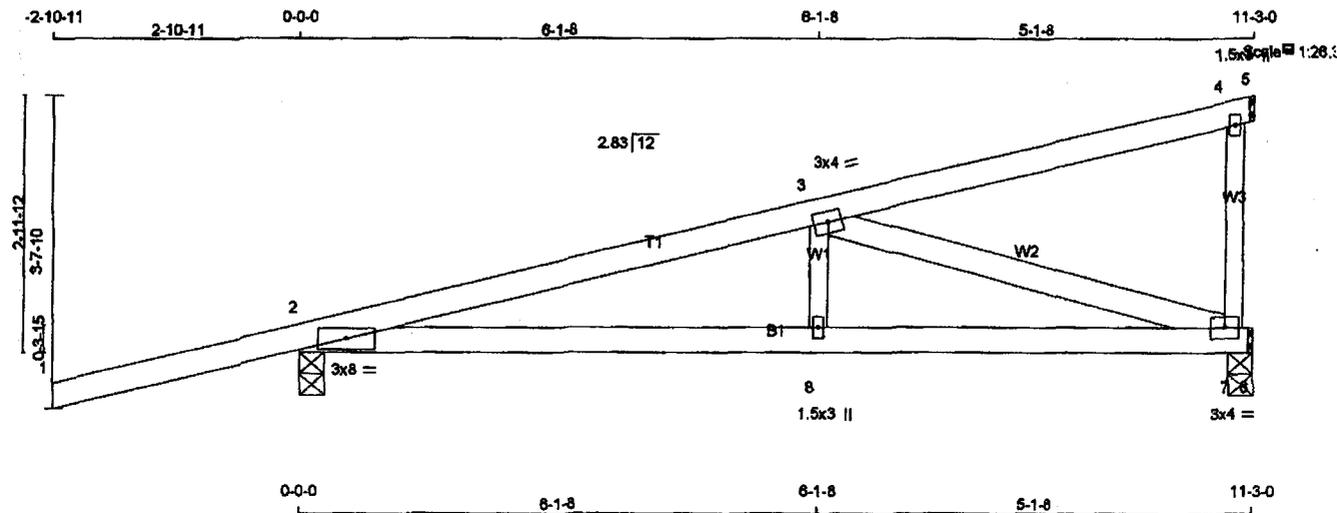
ESTIMATE FOR:
COOK, DOUG 2908 LYNNWOOD DR Bellevue, NE 68123
Ph: (402) 292-8884
PROJECT DESCRIPTION: HIP ROOF

ESTIMATE BY ESTIMATE DATE
MIKEM                      10/19/09

SKU NUMBER	DESCRIPTION		QTY TO ORDER		ADDITIONAL ITEM INFORMATION
.88-8124	24' HIP SET 4/12	SEE VOG 2'OC	2	EACH	** Special Order ** ON SALE THRU 10/25/09
.87-1306	24'STD 4/12 2'OC 2'OH	62#	9	EACH	ON SALE THRU 10/25/09
.24-2809	1/2" (16/32)-4'X8' OSB	2WHT 1BLK STRPE	40	EACH	
.51-3017	SUPREME FBGLS 25YR	SHASTA WHITE	48	EACH	ON SALE THRU 11/04/09
.51-1789	#15 FELT UNDERLAYMENT	3'X144' (4 SQ)	4	EACH	
.57-1015	10' GUTTER APRON	GALVANIZED	14	EACH	

\*\*\* If purchased today, you save \$450.

This is an estimate. It is given only for general price information. This is not an offer and there can be no legally binding contract between the parties based upon this estimate. The prices stated herein are subject to change depending upon the market conditions. The prices stated on this estimate are not firm for any time period unless specifically written otherwise on this form. The availability of materials is subject to inventory conditions. **MENARDS IS NOT RESPONSIBLE FOR ANY LOSS INCURRED BY THE GUEST WHO RELIES ON PRICES SET FORTH HEREIN OR ON THE AVAILABILITY OF ANY OF THE MATERIALS STATED HEREIN.** All information on this form, other than price, has been provided by guest and Menards is not responsible for any errors in the information on this estimate, including but not limited to quantity, dimension and quality. Please examine this estimate carefully. **MENARDS MAKES NO REPRESENTATIONS, ORAL, WRITTEN OR OTHERWISE THAT THE MATERIALS LISTED ARE SUITABLE FOR ANY PURPOSE BEING CONSIDERED BY THE GUEST. BECAUSE OF WIDE VARIATIONS IN CODES, THERE ARE NO REPRESENTATIONS THAT THE MATERIALS LISTED HEREIN MEET YOUR CODE REQUIREMENTS.**



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.99	In (oc) 1/defl L/d	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.75	Vert(LL) -0.08 7-8 >999 240		
BCLL 0.0	Lumber Increase 1.15	WB 1.00	Vert(TL) -0.18 7-8 >733 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.04 7 n/a n/a		
	Code IRC2003/TPI2002			Weight: 38 lb	

**LUMBER**  
 TC 2 X 4 SPF 1650F 1.5E  
 BC 2 X 4 SPF No.2  
 WB 2 X 3 SPF Stud \*Except\* W2 2 X 4 SPF Stud

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=699/0-3-8, 7=932/0-3-8  
 Max Horz 2=156(LC 7)  
 Max Uplift 2=-121(LC 7), 7=-133(LC 7)  
 Max Grav 2=992(LC 3), 7=1105(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/65, 2-3=-1783/87, 3-4=-110/71, 4-5=-12/0  
 BOT CHORD 2-8=-208/1683, 7-8=-208/1683, 6-7=0/0  
 WEBS 3-8=0/358, 4-7=-469/183, 3-7=-1758/217

**NOTES** (12)

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-02; 90mph; h=25ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- TCLL: ASCE 7-02; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=35.7 psf (ground snow); Ps=24.8 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.1
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 24.7 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 10-0-0 wide exists between the bottom chord and any other members.

(MW4REG42-MW4REG42 - 24 (42 psf))

Top chord 2x4 SPF #1/#2  
 Bot chord 2x4 SPF #1/#2  
 Webs 2x3 SPF Stud

90 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

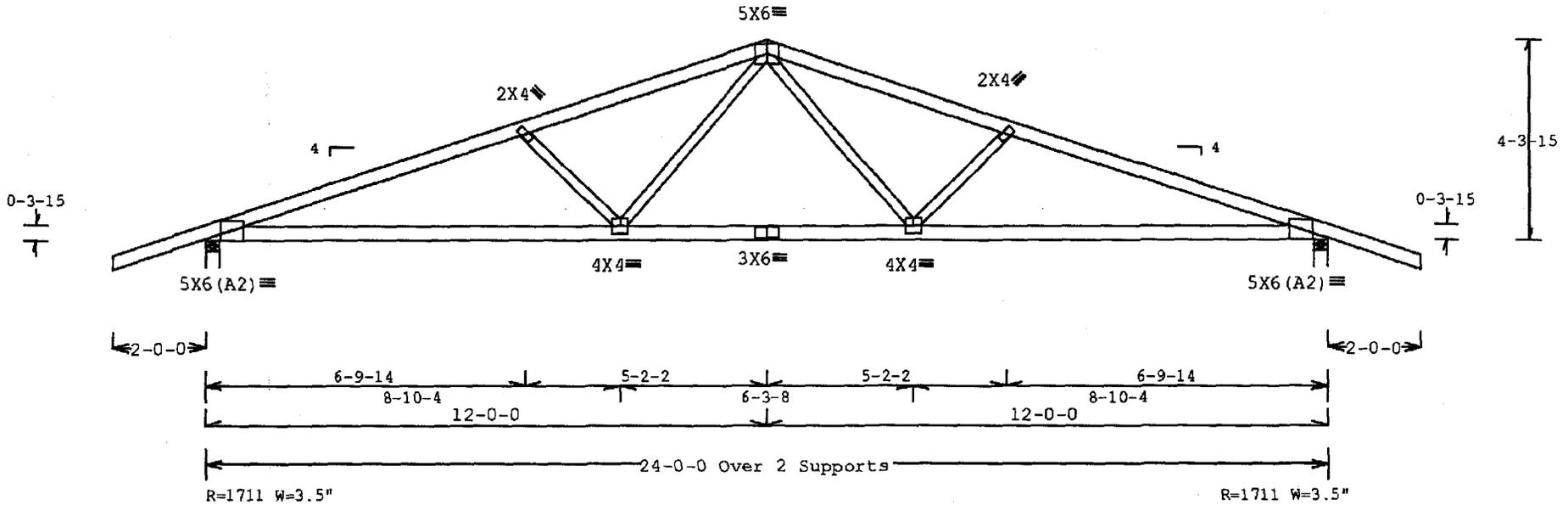
In lieu of rigid ceiling use purlins to brace BC @ 120" OC.

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Truss design per IRC sect. R802.10.2. 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

Truss designed for 42-psf balanced snow load based on:  
 Pg=55 psf, Ct=1.1, Ce=1.0, I=1.0.



Design Crit: TPI-2002(STD)/IRC

C<sub>q</sub>/R<sub>I</sub>=1.00(1.25)/0(0)

7.31

1 WI/-/1/-/-/R/-

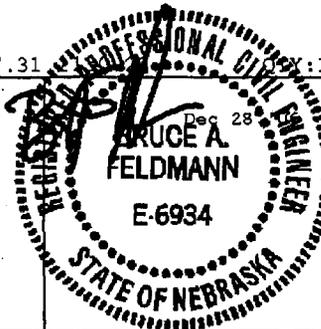
Scale = .3"/Ft.

PLT TYP. WAVE



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO TPI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HANCOCK, MI 49710) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AF&A AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W.9/95/R) ASTM A653 GRADE 40/60 (W. R/H.95) GALV. STEEL. APPLY PLATES TO BOTH FACES OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY DEVIATION OF PLATES FOLLOWED BY (1) SHALL BE THE USER AS OF TPI-2002 SEC. 2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	42.0 PSF	REF R7552- 52685
TC DL	10.0 PSF	DATE 12/21/06
BC DL	10.0 PSF	DRW MOUSR7552 06355013
BC LL	0.0 PSF	MO-ENG BAF/BAF *
TOT.LD.	62.0 PSF	SEQN- 13124 REV
DUR.FAC.	1.15	FROM BAF
SPACING	24.0"	JREF- 1T3B7552Z01

**Construction Estimate**

10/19/09

Job Location;  
17117 Bojanski Dr.  
Bellevue, NE 68123

Owner;  
Douglas P. and Deborah Michelle Cook  
2908 Lynnwood Dr.  
Bellevue, NE 68123

JAN - 6 2010

SARPY COUNTY  
PLANNING DEPARTMENT

**E-MAILED**  
NRD 1/6/10 MA

Job Description;  
Labor and materials to build a hip roof on existing building.

Materials	(per Menards' bid)	-----	\$3,651.07
Labor	(owner's labor estimate)	-----	<u>\$3,650.00</u>
Total		-----	\$7,301.07

Originator;  
Douglas P. Cook