



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: _____

Permit No.: _____

Building Address: 14026 Burntwoods Rd
 City: Glenely State: MD Zip Code: 21737
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Census Tract: 604002 Subdivision: _____
 Section: _____ Area: _____ Lot: 26
 Tax Map: 0021 Parcel: 0105 Grid: 0006
 Zoning: _____ Map Coordinates: _____ Lot Size: 40,075

Existing Use: SFD w/ 16'x15' Deck w/steps
 Proposed Use: SFD w/ 16'x15' Deck w/steps
 Estimated Construction Cost: \$ \$ 190,000
 Description of Work: Repair interior and exterior walls due to tree damage, Build new 16'x15' wood Deck w/stairs
 Occupant or Tenant: _____

Was tenant space previously occupied? Yes No
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: Todd Heisig
 Address: 14026 Burntwoods Rd
 City: Glenely State: MD Zip Code: 21737
 Phone: 301-725-4569 Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: Bryan Hanson
 Address: 2206 Glenwood Springs Drive
 City: Glenwood State: MD Zip Code: 21738
 Phone: 443-324-5332 Fax: _____
 Email: coolhand13@verizon.net

Contractor Company: Bryan Hanson Builders Inc
 Contact Person: Bryan Hanson
 Address: 2206 Glenwood Springs Drive
 City: Glenwood State: MD Zip Code: 21738
 License No.: 46579
 Phone: 443-324-5332 Fax: _____
 Email: coolhand13@verizon.net

Engineer/Architect Company: Century Engineering
 Responsible Design Prof.: Greg Holland
 Address: 10710 Gilroy Rd
 City: Mont Valley State: MD Zip Code: 21031
 Phone: 410-223-2070 Fax: 410-223-2124
 Email: _____

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories:	Depth	Width
Gross area, sq. ft./floor:	1 st floor:	
	2 nd floor:	
Area of construction (sq. ft.):	Basement:	
	<input checked="" type="checkbox"/> Finished Basement	
Use group:	<input type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
Construction type:	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Reinforced Concrete	No. of Bedrooms: <u>3</u>	
<input type="checkbox"/> Structural Steel	Multi-family Dwelling	
<input type="checkbox"/> Masonry	No. of efficiency units:	
<input type="checkbox"/> Wood Frame	No. of 1 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings: <u>46' x 28'</u>	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Heating System	
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Grading Permit Number:	
Building Shell Permit Number:	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Bryan Hanson
 Applicant's Signature
coolhand13@verizon.net
 Email Address
President
 Title/Company

Bryan Hanson
 Print Name
11-30-16
 Date

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

PLEASE WRITE NEATLY & LEGIBLY

-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>11/30/16</u>	<u>J. Backus</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front:
Rear:
Side:
Side St.:
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:
SDP/Red-line approval date:

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	#

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

July 6, 2016

Bryan Hanson Builders, Inc.
2806 Glenwood Springs Dr.
Glenwood, MD 21738

Attn: Mr. Bryan Hanson

Re: 14026 Burntwoods Rd.
Downed Tree Damage
Structural Evaluation

Dear Bryan:

In accordance with our Engineering Services Authorization dated July 5, 2016, Century Engineering, Inc. (CEI) has prepared this report to document our structural observations of the damage to the residential structure at 14026 Burntwoods road in Glenelg, Maryland. A recent storm downed a large tree that impacted the house resulting in severe damage to the structure. The purpose of our observations and evaluation is to document the extent of the damage and to generally describe required repairs to return the structure to a livable state. This report is based on visual observations only; an in-depth evaluation or analysis of the structure was not conducted.

The house is an approximately 46' x 28' split foyer, 2-story wood framed structure. An 8" deep steel beam supporting the upper level floor framing, spans the 46' width of the house and is supported by steel pipe posts spaced approximately 10' on center. The upper level floor framing consists of 2x10 joist members spaced 16" on center that span from the front and back exterior walls to the center steel beam. The roof is framed using metal-plate connected wood trusses spanning the full 28' depth of the house. The lower level exterior wall construction consists of a brick veneer over CMU wall system. The upper level walls are wood stud framed. A detached 2-car garage was unaffected by the downed tree.

The downed tree was located approximately 10' off the rear of the house and fell at a diagonal to its width. It penetrated the rear wall approximately 6' from the west end and the front wall approximately 15' from the west end. The tree trunk came to rest on the top of the rear lower level masonry wall. Significant damage was observed to the floor, wall, and roof framing in the west half of the structure, the area approximately 22' from the west end of the house to the front door. No significant damage to the structure was observed on the east portion of the house.

At the time of our observations, temporary framing was installed to partially enclose the most severely damaged areas. However, the temporary framing is not permanent and is not "water tight". Standing water was observed on the lower level concrete floor, presumptively caused by rain entering the structure. A wet mildew type smell was present throughout the house.

The following outlines our observations and repair recommendations:

1. The west most column and support framing supporting the front porch roof was demolished by the downed tree. The entire porch roof framing will need to be rebuilt, including the 'over build' portion on top the main roof. Porch roof framing consists of metal plate connected wood trusses spaced at 2' on center topped with wood structural panel sheathing. Double 2x10 wood beams support the trusses at each end of the porch.
2. Cracking of the concrete porch slab was observed at the south west corner of the porch in the area of the porch column bearing. The crack should be properly prepared and epoxy injected. Face brick below the porch slab in this area does not exhibit any damaged related to the downed tree.

The roof truss framing and sheathing in the west portion of the house exhibits varying degrees of damage. Replacement of approximately 12 roof trusses and associated roof sheathing is required.

- B.L.H. 4. To maintain overall roof integrity and allow the roofing material to all age together, CEI recommends that new roofing be installed over the entire roof.
- B.L.H. 5. The upper level front and back exterior walls in the west portion of the house need to be rebuilt. Portions of the west end wall may also need to be rebuilt. Top plate members may have caused damage to the wall studs when the roof trusses were demolished by the tree. Direct observation of the top plates and wall framing could not be conducted during our site visit.
- B.L.H. 6. All interior walls on the upper level of the west portion of the house need to be rebuilt.
7. No significant cracking or damage to the masonry chimney was observed.
- B.L.H. 8. The upper level floor joist framing in the west portion of the house exhibits varying degrees of damage. Replacement of approximately 18 floor joists and associated floor sheathing is required.
9. Damage to the center steel support beam and column was not observed. However, because of the existing conditions, not all of the steel could be observed. It is likely that the beam in the area where the tree came to rest may have localized damaged. Replacement of the beam in this area may be required. It is anticipated that the steel columns are undamaged and can remain.
- B.L.H. 10. For the most part, the lower level masonry exterior walls appear to be undamaged. The exception is at the rear entry door where the tree came to rest on the wall. The steel angle lintel above the door is bowing downward and cracking of the exterior brick was observed. Both the cmu backup and brick veneer should be replaced above the entry door. Additionally, a 6' length of wall on each side of the door should be replaced. The foundation in this area can be observed when it is exposed during construction to rebuild the wall.
- B.L.H. 11. The interior walls throughout the lower level may need to be replaced because of water damage. Standing water was observed throughout the lower level floor.
- B.L.H. 12. Tree limbs were observed on the exterior wood deck at the back of the house. A portion of the perimeter handrail has pulled away from the deck framing and the western most joists have been damaged. In addition, the remaining portion of the deck is in very poor condition and does not appear to meet code requirements. Replacement of the entire deck structure is recommended.

We appreciate the opportunity to be of service on the project. Should you have any questions or require additional information, please contact us.

Sincerely,

CENTURY ENGINEERING, INC


Gregory S. Holland, P.E., LEED A.P.
Vice President
Building Structures Division