

DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1850	<b>HOWARD COUNTY          RESIDENTIAL          HEATING-VENTILATION-AIR          CONDITIONING AND          REFRIGERATION PERMIT          APPLICATION</b>	HVACR PERMIT # <u>M13000776</u> BUILDING PERMIT #
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BUILDING ADDRESS: <u>4272 Buckskin Lake Dr.</u> SUITE/APT: _____ SUBDIVISION: _____ CENSUS TRACT: _____ SECTION: _____ AREA: _____ LOT: _____ TAX MAP: _____ PARCEL: _____ BLOCK: _____ ZONE: _____ PROPERTY ID: _____ MAP COORDINATES: _____ TYPE OF IMPROVEMENTS: _____ USE: _____	OWNERS NAME: <u>Dr. Joshua Madden</u> ADDRESS: <u>4272 Buckskin Lake Dr.</u> CITY: <u>Ellicott City</u> STATE: <u>MD</u> ZIP CODE: <u>21042</u> HOME PHONE: <u>443-745-3436</u> WORK PHONE: _____
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	<u>CHECK ONE</u>	<u>HOW MANY</u>	COMPANY NAME: <u>Total Comfort Htg &amp; AC</u>
SINGLE FAMILY DWELLING	<input type="checkbox"/>	<u>2</u> ZONES	LICENSEE NAME: <u>James E. Aaron</u>
SINGLE FAMILY TOWNHOUSE	<input type="checkbox"/>	____ ZONES	ADDRESS: <u>P.O. Box 643</u>
MULTI-FAMILY / HOTEL/MOTEL	<input type="checkbox"/>	____ ROOMS	CITY: <u>Smithsburg</u>
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS)	<input type="checkbox"/>	____ ROOMS	STATE: <u>MD</u> ZIP CODE: <u>21783</u> PHONE: <u>301-824-3700</u> HVACR LICENSE NO: <u>5833-01</u>

**New**

Heating and Air Conditioning       Heating System Only       Other Work (Describe):

Geo Thermal System       Ductless Mini Splits       Thru The Wall Systems

**Replacement**

Heating      **Additions and Alterations**

Air Conditioning       Heating

Heating and Air Conditioning       Air Conditioning

Heating and Air Conditioning

\*\*\*\*Replacement Geo Thermal Systems are not required; However, if a tax credit is being sought a permit is required\*\*\*\*

<b>Zones</b> Permit Fee = # of Zones x \$40 = <u>80.00</u> Technology Fee (10% of Permit Fee) = <u>8.00</u> Plus Application Fee <u>\$50.00</u> Total Fees Due = <u>138.00</u>	<b>Rooms</b> Permit Fee = # of Rooms x \$80 = _____ Technology Fee (10% of Permit Fee) = _____ Plus Application Fee \$50 <u>\$50.00</u> Total Fees Due = _____
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I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACR LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND.

James E. Aaron      6/26/13  
 SIGNATURE OF LICENSEE      DATE

James E. Aaron  
 PRINT NAME OF LICENSEE

jaaron@myactv.net  
 Email Address

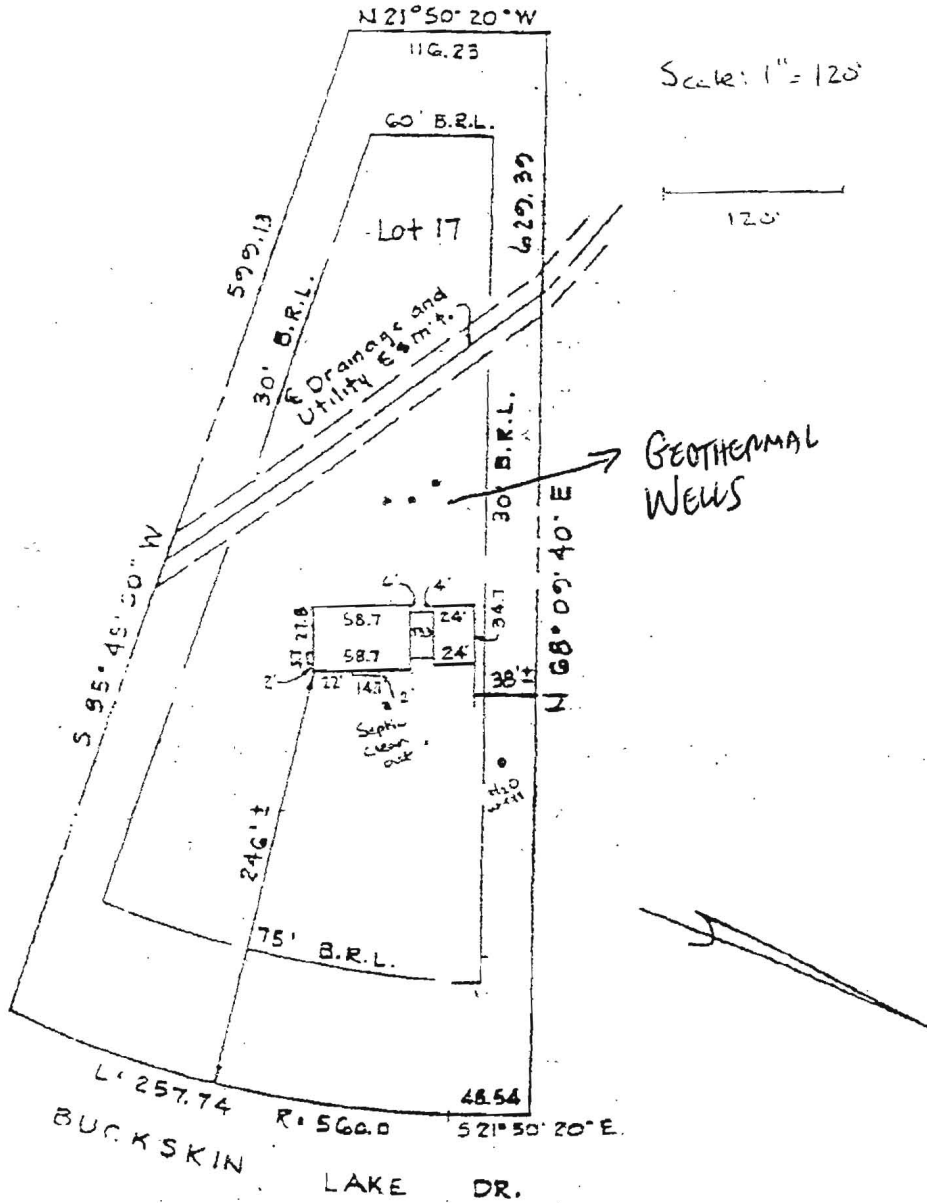
Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

Word doc: T:\Updated Forms\hvac application  
 Rev: 10.2009

<b>Validation</b>	
Check Number: <u>4672</u>	Cash: _____
Receipt Number: <u>324581</u>	

7/8/2013  
Approved  
(BB)

M13000776



Note: I hereby certify that the information on this plat shows only that the improvements indicated hereon are contained within the outlines of the lot upon which they were erected, unless otherwise noted, and is not to be used to establish property lines or corners.



M1300776



**Load Short Form  
AH1**

**TOTAL COMFORT HEATING & A/C INC.**

Job:  
Date: 2013  
By: J. AARON

**Project Information**

For: MADDEN RESIDENCE  
4272 BUCKSKIN LAKE DRIVE, ELLICOTT CITY, MD

**Design Information**

	Htg	Clg	Method	Infiltration	Simplified Average
Outside db (°F)	12	91			
Inside db (°F)	70	75	Construction quality		
Design TD (°F)	58	16	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	25	36			

**HEATING EQUIPMENT**

Make American Standard  
Trade Heritage 18  
Model 2A6H8048B1  
ARI ref no. 798517

Efficiency 9 HSPF  
Heating input  
Heating output 41500 Btuh @ 47°F  
Temperature rise 40 °F  
Actual air flow 955 cfm  
Air flow factor 0.022 cfm/Btuh  
Static pressure 0.00 in H2O  
Space thermostat

**COOLING EQUIPMENT**

Make American Standard  
Trade Heritage 18  
Cond 2A6H8048B1  
Coil 2TXFH063AS3+\*UY100R9V4  
ARI ref no. 798517

Efficiency 16.3 SEER  
Sensible cooling 32200 Btuh  
Latent cooling 13800 Btuh  
Total cooling 46000 Btuh  
Actual air flow 955 cfm  
Air flow factor 0.047 cfm/Btuh  
Static pressure 0.00 in H2O  
Load sensible heat ratio 0.79

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BASEMENT	2280	17939	2928	390	136
FIRST	2578	25972	17579	565	818
AH1	4858	43910	20507	955	955
Other equip loads		7347	2027		
Equip. @ 0.96 RSM			21632		
Latent cooling			6052		
<b>TOTALS</b>	<b>4858</b>	<b>51257</b>	<b>27685</b>	<b>955</b>	<b>955</b>

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**Project Information**

For: MADDEN RESIDENCE  
4272 BUCKSKIN LAKE DRIVE, ELLICOTT CITY, MD

**Design Information**

	Htg	Clg		Infiltration	
Outside db (°F)	12	91	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	58	16	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	25	36			

**HEATING EQUIPMENT**

Make American Standard  
Trade Heritage 13  
Model 4A6H3042A1  
ARI ref no. 1141748

Efficiency 8.5 HSPF  
Heating input  
Heating output 40000 Btuh @ 47°F  
Temperature rise 41 °F  
Actual air flow 919 cfm  
Air flow factor 0.027 cfm/Btuh  
Static pressure 0.00 in H2O  
Space thermostat

**COOLING EQUIPMENT**

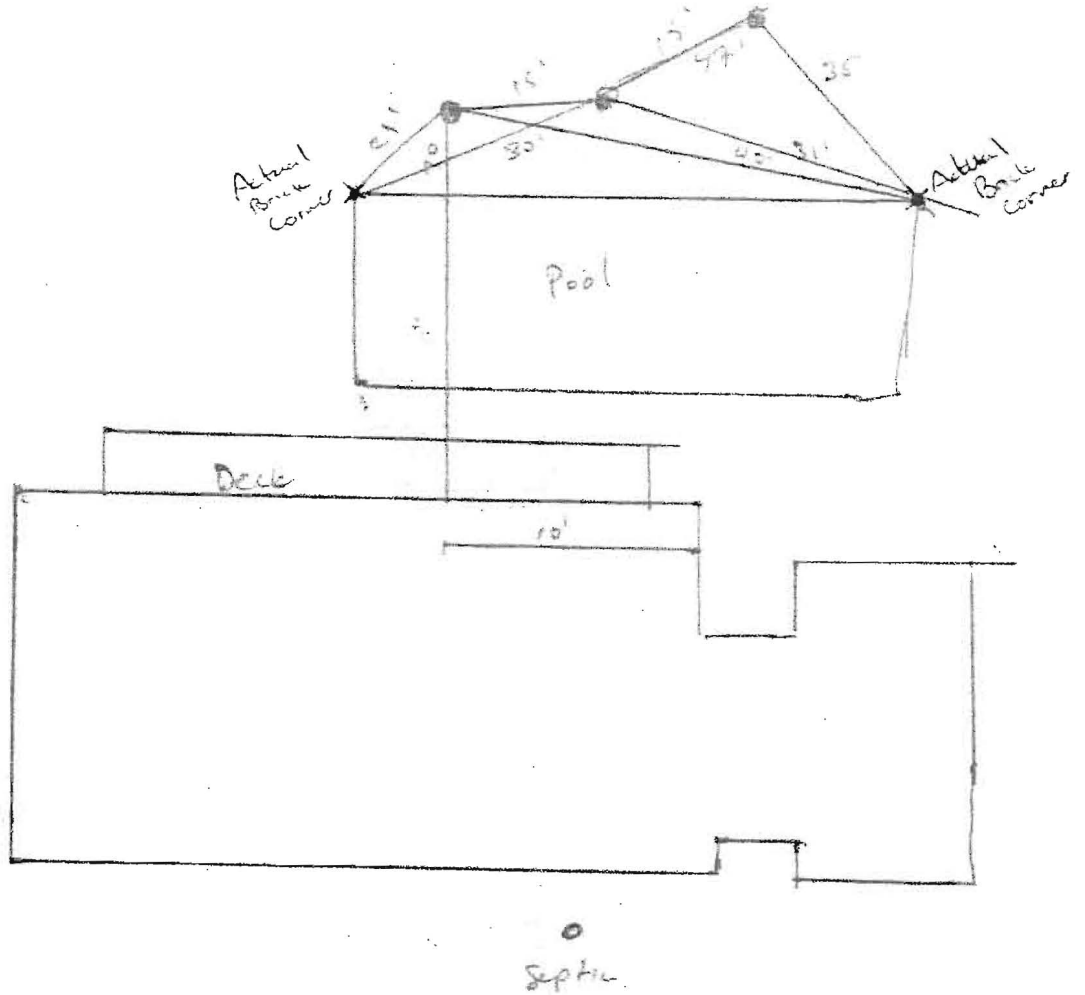
Make American Standard  
Trade Heritage 13  
Cond 4A6H3042A1  
Coil 4TEH3F42B1  
ARI ref no. 1141748

Efficiency 14 EER  
Sensible cooling 29050 Btuh  
Latent cooling 12450 Btuh  
Total cooling 41500 Btuh  
Actual air flow 919 cfm  
Air flow factor 0.042 cfm/Btuh  
Static pressure 0.00 in H2O  
Load sensible heat ratio 0.82

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
SECOND	2242	34276	21887	919	919
AH2	2242	34276	21887	919	919
Other equip loads		4171	1151		
Equip. @ 0.96 RSM			22116		
Latent cooling			5130		
TOTALS	2242	38447	27247	919	919

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