

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>M/6001439</u> BUILDING PERMIT #
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BUILDING ADDRESS: <u>14110 Twisting Lane</u> <u>Dayton, MD 21036</u> SUITE/APT: _____ SUBDIVISION: <u>0000</u> CENSUS TRACT: _____ SECTION: _____ AREA: _____ LOT: <u>2</u> TAX MAP: <u>0027</u> PARCEL: <u>0024</u> BLOCK: <u>9999</u> ZONE: _____ PROPERTY ID: _____ MAP COORDINATES: _____ TYPE OF IMPROVEMENTS: _____ USE: _____	OWNERS NAME: <u>Eric Maxfield</u> ADDRESS: <u>14110 Twisting Lane</u> CITY: <u>Dayton</u> STATE: <u>MD</u> ZIP CODE: <u>21036</u> HOME PHONE: <u>410-767-4047</u> WORK PHONE: _____
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CHECK ONE	HOW MANY	COMPANY NAME:
SINGLE FAMILY DWELLING <input checked="" type="checkbox"/>	<u>1</u> ZONES	Ground Loop Heating & Air Cond., Inc.
SINGLE FAMILY TOWNHOUSE <input type="checkbox"/>	_____ ZONES	LICENSEE NAME: Michael E. Cullum
MULTI-FAMILY / HOTEL/MOTEL <input type="checkbox"/>	_____ ROOMS	ADDRESS: <u>1701 Whiteford Road</u>
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) <input type="checkbox"/>	_____ ROOMS	CITY: <u>Darlington</u> STATE: <u>MD</u> ZIP CODE: <u>21034</u> PHONE: <u>410-836-1706</u> HVACR LICENSE NO: <u>6539</u>

**New**

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

Geo Thermal System  Ductless Mini Splits  Thru The Wall Systems

**Replacement**

Heating Water Furnace **Additions and Alterations**

Air Conditioning 4ton NVV048  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>40.00</u> Technology Fee (10% of Permit Fee) = <u>4.00</u> Plus Application Fee <u>\$50.00</u> Total Fees Due = <u>94.00</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.

Michael C  
 SIGNATURE OF LICENSEE

11/30/16  
 DATE

Michael Cullum  
 PRINT NAME OF LICENSEE

linda @ ground loop . com  
 Email Address

<b>Validation</b>
Check Number: <u>24095</u>
Cash: _____
Receipt Number: <u>473325</u>

Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

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

**RECEIVED** Horizontal Loops

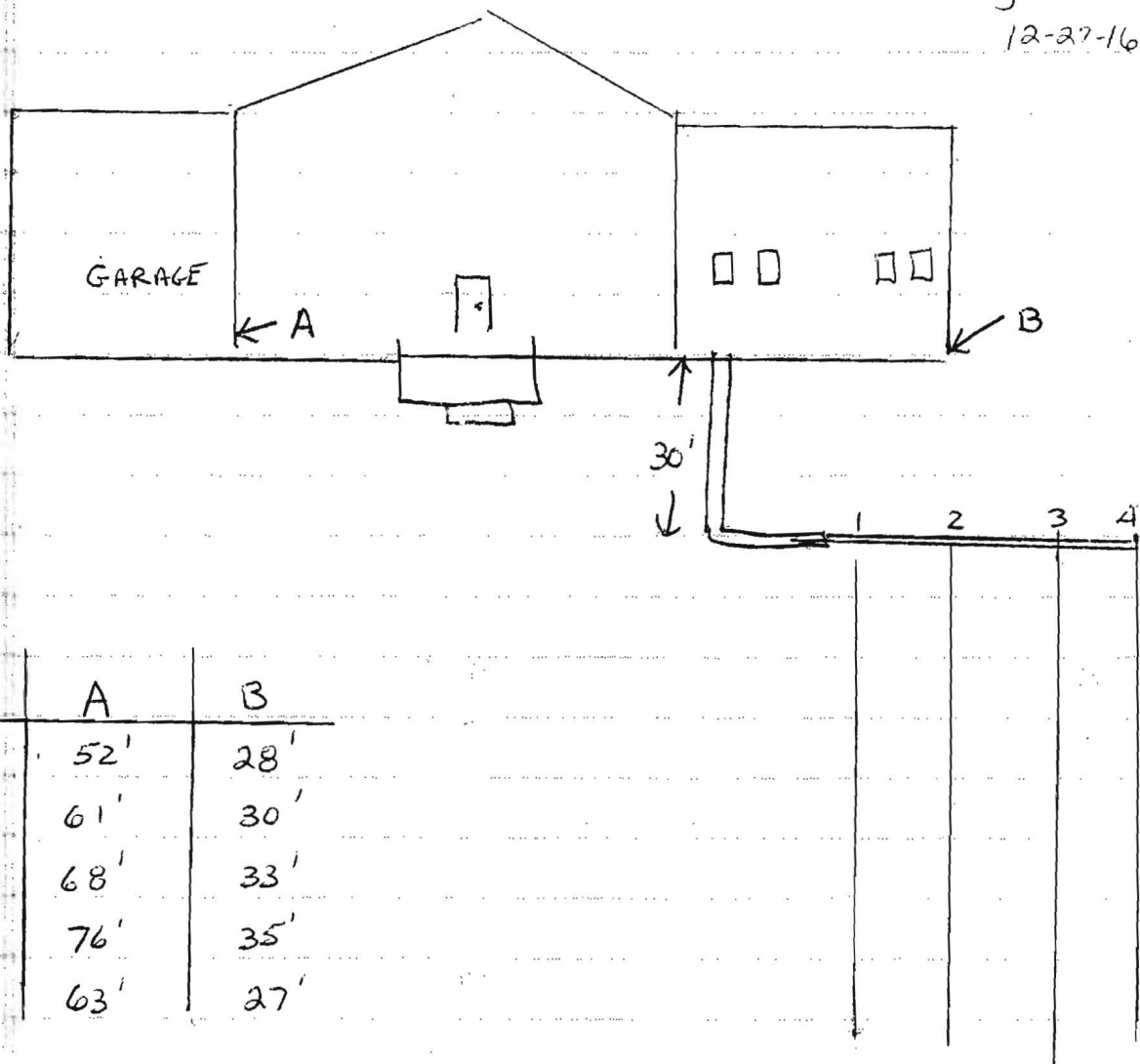
**DEC 06 2016**

LICENSES & PERMITS  
 DIVISION

MAXFIELD

Gary + Dave P.

12-27-16



RECEIVED

JAN 10 2017

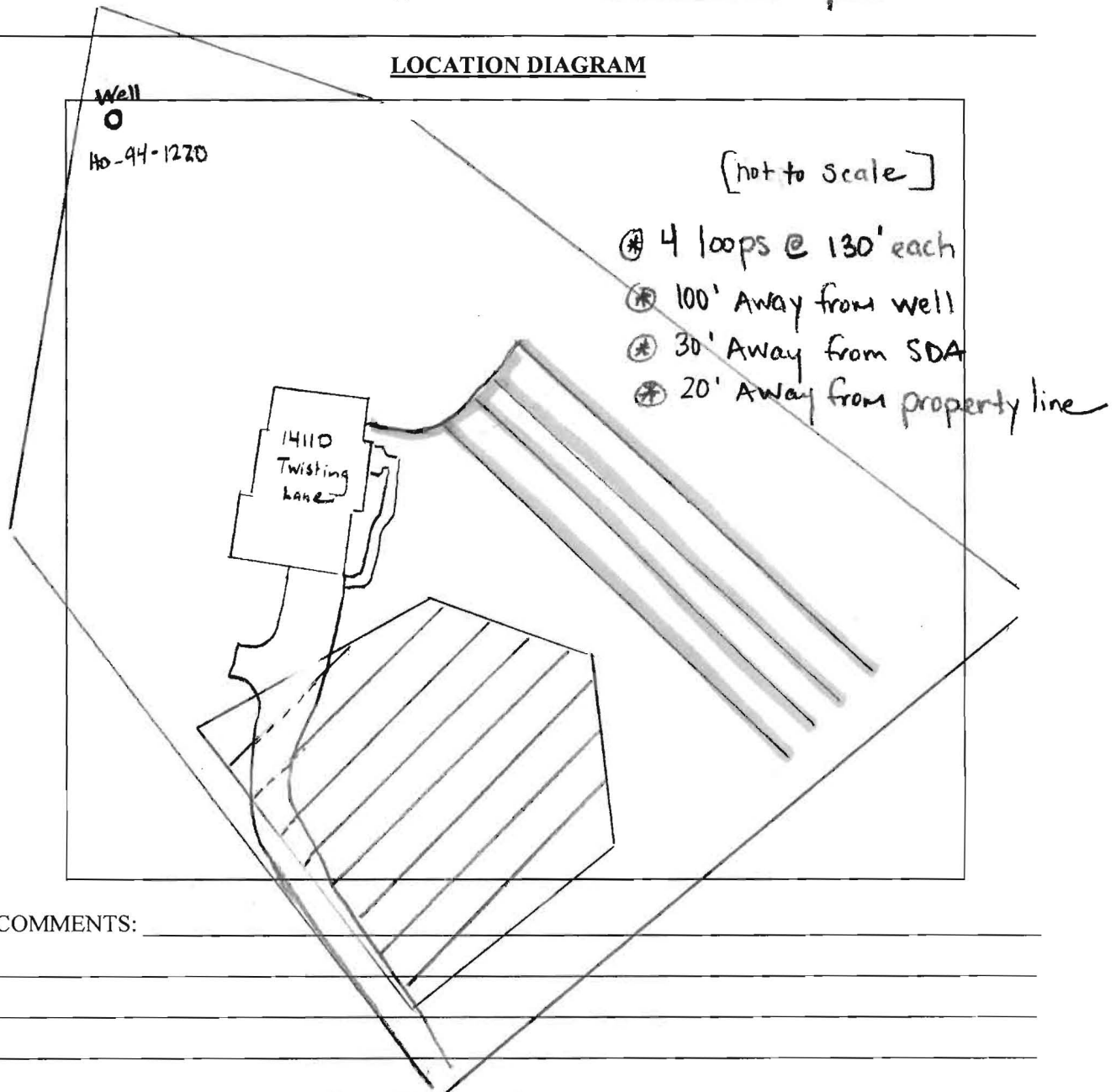
HOWARD COUNTY HEALTH DEPT.  
COMMUNITY HYGIENE PROGRAM

Building Permit  
# M16001439

SITE INSPECTION SHEET

OWNER: Eric Maxfield PHONE #: 410-707-4047  
ADDRESS: 14110 Twisting Lane CONTRACTOR: Ground Loop Heating & AC  
Dayton, MD 21036 WELL TAG #: HO-94-1220  
SUBDIVISION: - LOT: 2 COUNTY #: -  
PROPOSAL: SFD 1 Zone Horizontal GeoThermal System

LOCATION DIAGRAM

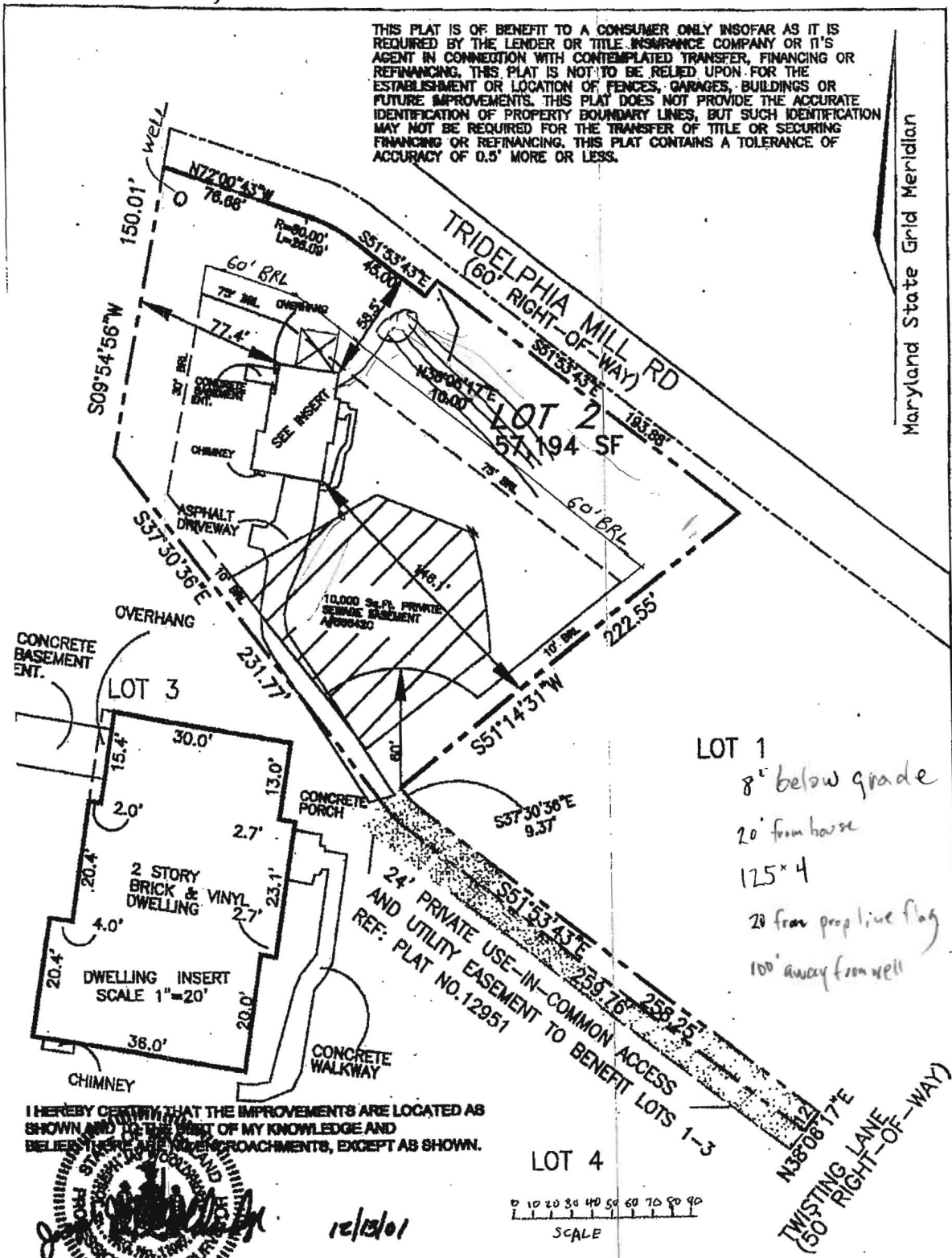


DATE: 1/4/17 INSPECTOR: R. RAPPAPORT

*Eric J. McNeill*  
*Douglas B. Marsfeld*

M1600439

THIS PLAT IS OF BENEFIT TO A CONSUMER ONLY INsofar AS IT IS REQUIRED BY THE LENDER OR TITLE INSURANCE COMPANY OR IT'S AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR FUTURE IMPROVEMENTS. THIS PLAT DOES NOT PROVIDE THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING. THIS PLAT CONTAINS A TOLERANCE OF ACCURACY OF 0.5' MORE OR LESS.



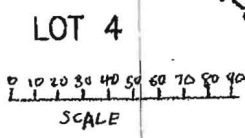
Maryland State Grid Meridian

LOT 1  
 8' below grade  
 20' from house  
 125' x 4'  
 20' from prop line flag  
 100' away from well

I HEREBY CERTIFY THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THERE ARE NO ENCROACHMENTS, EXCEPT AS SHOWN.



12/13/01



JOSEPH J. McNEILL, PROFESSIONAL LAND SURVEYOR # 11027

PLAT No.	DATE
12951	12-13-01
DR. BY	CH. BY
SCH	JJW
SCALE:	JOB NO.
1"=60'	2014027



**FREDERICK WARD ASSOCIATES, INC.**

ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2364  
 ARCHITECTS Phone: 410-290-9550 Fax: 410-720-8228  
 SURVEYORS Bel Air, Maryland Warrenton, Virginia

FINAL LOCATION SURVEY  
 LOT 2  
 TWIST & TURN ESTATES  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

M16001439

WaterFurnace Energy Analysis				
ASHRAE Single Zone Load Calculation Ver. 8.3				
Dealer-	Ground Loop Heating & Air Cond 1701 Whiteford Rd Darlington Md 21034		Client-	Maxfield
Design Conditions-	Winter	Summer	Daily	
Outside Temp:	12 ° F	92 ° F	Range:	
Inside Temp:	70 ° F	72 ° F	23	
Difference:	58 ° F	20 ° F	° F	
General Information-				
Glass Type:	0 Clear	Exposed Ducts:	15%	
Roof Color:	0 Dark	Duct Loss Factor:	0.15	
Occupancy:	4 People	Duct Gain Factor:	0.15	
Light/Appliance:	2000 btuh			
Infiltration Evaluation:	Qty	Code		
Fireplace:	0	1		
Fans/Vents:	2	1	W/ Damper	
Attic Access:	0	1		
Window AC:	0	0		
Fossil Furnace:	0	0		
Fossil DHW Heater:	0	0		
Exposed Duct System:	0		Poorly Sealed	
Building # Stories:		1		
Wind Shielding:		2	Moderate	
<b>BUILDING LOAD SUMMARY - WHOLE HOUSE</b>				
		AREA	LOSS	GAIN
<b>WALLS/PARTITIONS-</b>				
EXT. WALL- R19		1221	6393	2014
CONCR-4' BEL GRD-R11		1504	5234	
<b>WINDOWS/DOORS-</b>				
D.H./SLDG-WOOD-DOUBLE		230	11348	6332
D.H./SLDG-WOOD-DOUBLE				
DOOR-WOOD-STRM		21	637	200
SLDG DR-WOOD-DOUBLE		32	1849	910
<b>CEILINGS/FLOORS-</b>				
FRAME CEILING-R30				
FRAME FLOOR-R11		1920	10094	2638
PEOPLE				1200
LIGHT/APPLIANCE				2000
EXPOSED DUCT SYSTEM		15%	800	344
MOISTURE REMOVAL				4691
OTHER LOSS/GAIN-			0	0
<b>TOTAL LOAD (BTU/HR)</b>			<b>36355</b>	<b>20330</b>

