

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

September 14, 2021

Carl Glen Henshaw, Ph.D
12578 Hall Shop Road
Fulton, MD 20759

RE: Waiver Approval
12578 Hall Shop Road
Fulton, MD 20759

Mr. Henshaw,

This letter is being issued as a follow-up to the approval of your waiver request dated September 1, 2021. Your request to waive the requirement of the Howard County Code for a percolation certification plan has been **approved**. The proposed twenty (20) foot by fifty (50) foot four (4) inch solar panel installation has minimal impact on the area available for future on-site sewage disposal system repairs and does not impact the existing well.

Any deviations from the proposed work illustrated on the site plan submitted with the waiver request will be subject to further review by this department. Future property improvements that require a building permit will require percolation testing and a percolation certification plan.

Any questions regarding this decision may be directed to the Well and Septic Program of the Howard County Health Department.

Respectfully,

A handwritten signature in black ink, appearing to read 'Michael J. Davis', is written over a light blue horizontal line.

Michael J. Davis

Director

Bureau of Environmental Health

Carl Glen Henshaw, Ph.D.

443-295-3050

glen@toadhill.net

12578 Hall Shop Road, Fulton MD 20759

September 1, 2021

Jeffrey Williams
Supervisor
Well and Septic Program
Howard County

Mr. Williams,

I am writing to request a waiver from the requirement for Percolation Certification Plan for my planned solar panel installation proposal (B21001951) at 12578 Hall Shop Road, Fulton Maryland. I acknowledge that I understand the issue with the placement of the solar panels with respect to a Sewage Drainage Area (SDA).

My property is large, with extensive pastures of approximately 3 acres in addition to a large front yard of approximately 1 acre. I believe that a sufficiently sized SDA would be easy to locate on the property.

Sincerely yours,

HENSHAW.CARL.GLEN.
1048976286

Digitally signed by
HENSHAW.CARL.GLEN.1048976286
Date: 2021.09.01 12:16:46 -04'00'

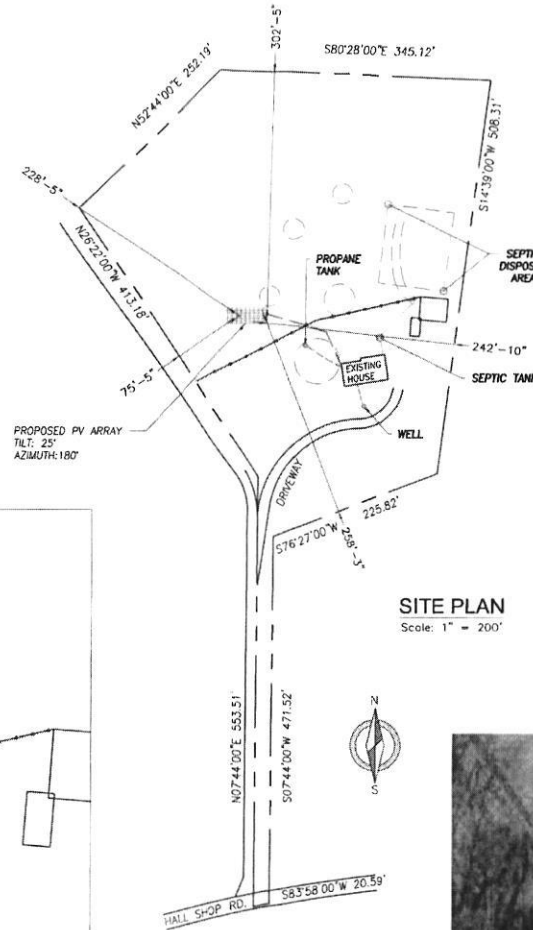
Glen Henshaw

9/14/21
Approved
Michael J. Davis

12578 Hall Shop Road
B21001951

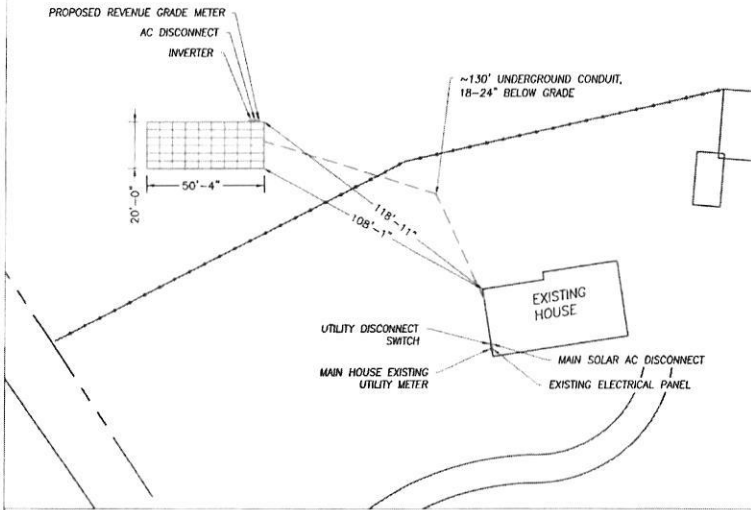
NOTES:

1. THIS DRAWING IS TO PROVIDE REFERENCE FOR THE INSTALLATION OF GROUND MOUNT PHOTOVOLTAIC ARRAYS.
2. THE SYSTEM SHALL INCLUDE [54] LONGI Green Energy Technology Co Ltd LR6-60HPB-315M [DIMENSIONS: 66.26" (L) x 39.21"(W) x 1.38" (D)] AND WEIGHING 40.12 LBS (PANEL DEAD LOAD = 2.31PSF)
3. THE SOLAR FOUNDATIONS RACKING WILL BE INSTALLED PER MANUFACTURER'S INSTALLATION MANUAL.
4. THE PROPOSED ARRAY SHALL COVER APPROX. 896 SQ.FT. OF THE 5.00 AC. PROPERTY.
5. EQUIPMENT LOCATION PLAN IS APPROXIMATE. EXACT LOCATION TO BE VERIFIED WITH INSTALLATION CREW AND HOME OWNER AT THE TIME OF INSTALLATION.



EQUIPMENT LOCATION PLAN

Scale: 1" = 60'



General Notes



SolarEnergyWorld
Because Tomorrow Matters
 Solar Energy World LLC.
 5681 Main Street
 Elkridge, MD 21075
 (888) 497-3233

This drawing is the property of Solar Energy World Inc. The information herein contained shall be used for the sole benefit of Solar Energy World. It shall not be disclosed to others outside the recipient's organization, in whole or in part, without the written permission of Solar Energy World, except in connection with the sale and use of the respective Solar Energy equipment.



Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 40027, Expiration Date: 3/15/23.

Engineering Review is Limited to Structural Design Only
 *STAMPED AND SIGNED FOR STRUCTURES ONLY

Project Name and Address
 Carl (Glen) Henshaw GM
 6Lx9C
 12578 Hall Shop Road,
 Fulton, MD 20759
 MD9099
 17.01 kW

Drawn by
TML
 Date
21-MAY-2021
 Scale
AS NOTED

Sheet
A001

Record Detail * (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Solar Panel	B21001951	06/07/2021
Description of Work		
SFD/ INSTALL 54 GROUND MOUNTED SOLAR PANELS, 17.01 KW		

[check spelling](#)

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type
12578	HALL SHOP	RD
Unit Type	Unit #	X Coordinate
--Select--		-76.94847
City	State	Zip Code
FULTON	MD	20759
	Primary	
	Yes	

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID *	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
850296	326	5	260000	459300	199300	RURAL
Legal Description						
IMPS5A[]12578 HALL SHOP RD[]FULTON						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
		605102	4				
Plan Area	State Tax Id	Subdivision Name					
	1405368286						
Section	Area	Tax Map					
		40					
Grid	Zoning District	ADC Map					
40-11	RR-DEO	5051-J2					
SDP No.	Final Plan No.	WP File No.					
Record Plat No.	WS Contract No.	FDP No.	Primary				
			Yes				
Owner Occupied	Year Built	Historic District					
<input type="radio"/> Yes <input type="radio"/> No	1973	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Historic District Registry No.	Stat Area	Flood Plain					
	5-15A	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Building No							

Owner * (This section is required.)

Search Reset Clear

Name *

HENSHAW CARL GLEN

Address Line 1

12578 HALL SHOP RD

Address Line 2

Address Line 3

Mail City	Mail State	Mail Zip Code
FULTON	MD	20759
Phone	Primary	
443-295-3050	Yes	
E-mail		
glen@toadhill.net		
Cell Number	Fax Number	

Professionals * (This section is required.)

Search Reset Clear

License # *
 08050127353
License Type *
 MHIC Co
Primary
 Yes

Business Name
 SOLAR ENERGY WORLD LLC
First Name **Middle Name** **Last Name**
 ✓ GEOFFREY MIRKIN
Address Line 1
 ✓ 5681 MAIN STREET
Address Line 2

City **State** **ZIP Code**
 ELKRIDGE MD 21075-0000
Phone 1 **Phone 2** **Fax**
 4105792009 4105791601
E-mail
 GMIRKIN@SOLAREENERGYWORLD.COM

Applicant * (This section is required.)

Search As Owner As Lic. Prof As Contact

Type *
 Applicant
Relationship
 Applicant
Primary
 Yes

✓ ZACH NEUBAUER
Full Name
 ✓ ZACH NEUBAUER
Organization Name
 SOLAR ENERGY WORLD
Street Address
 5681 MAIN STREET
Address Line 2

City **State** **Zip Code**
 ELKRIDGE MD 21075
Phone **Cell** **Fax**
 410-579-5172
E-mail *
 CDOYLE@SOLAREENERGYWORLD.COM

Addtl Info

Est Construction Cost * **Housing Units *** **Number of Buildings *** **Public Owned**
 39000 0 0 No

Construction Type
 --Select--

RESIDENTIAL SOLAR PANEL INFO

SOLAR PANEL INFORMATION

Capital Project-No Fee **Type of Installation *** **Number of Panels *** **Water Supply *** **Sewage Disposal *** **Expiration Date**
 Yes No Solar Collector - Ground Mount 54 Private Private 2/27/2022

Existing Use *
 SFD

PAYMENT INFORMATION

Check 1 **Payee 1** **Check 2** **Payee 2** **SAP Doc No** **SAP Entered**

Submit Cancel

Bricker, Robert

From: Glen Henshaw <glen@toadhill.net>
Sent: Wednesday, September 1, 2021 12:19 PM
To: Bricker, Robert; Williams, Jeffrey
Subject: Re: 12578 Hall Shop Road_B21001951
Attachments: SDA waiver.pdf

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Mr. Williams,

Enclosed please find my memo requesting a waiver for the Percolation Certification Plan for my property pertaining to a planned solar panel installation.

Thanks,
Glen

--

Glen Henshaw
glen@toadhill.net
KC3AYG

On Mon, Aug 30, 2021, at 3:07 PM, Bricker, Robert wrote:

Mr Henshaw,

Could you format an email as a memo or letter that requests a waiver from requirement for Percolation Certification Plan? Send the request for waiver to Mr Jeffrey Williams (whose email was on the recent messages). You need to include your address and the purpose of your request because Mr Williams does not know the details at this time.

Robert Bricker, REHS/RS, L.E.H.S.

From: Glen Henshaw <glen@toadhill.net>
Sent: Monday, August 30, 2021 2:52 PM
To: Bricker, Robert <RBricker@howardcountymd.gov>
Cc: Tom Lampros <tlampros@solarenergyworld.com>; Kristin Manzo <kmanzo@solarenergyworld.com>; Ryan Doyle <rdoyle@solarenergyworld.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: Re: 12578 Hall Shop Road_B21001951

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Mr. Bricker, et al-

I acknowledge that I understand the issue. My property is large, with extensive pastures of approximately 3 acres in addition to a large front yard of approximately 1 acre. I believe that a sufficiently sized SDA would be easy to locate on the property.

Glen

"A ship in port is safe, but that's not what ships are built for.
Sail out to sea and do new things."

- Admiral "Amazing" Grace Hopper, USN

On Aug 30, 2021, at 2:40 PM, Bricker, Robert <RBricker@howardcountymd.gov> wrote:

Mr Henshaw, you may send the request as a simply worded email acknowledging your understanding of the issue and citing characteristics of your property by which you may believe that an area could be established somewhere on your property.
Robert Bricker, REHS/RS, L.E.H.S.

From: Glen Henshaw <glen@toadhill.net>
Sent: Monday, June 14, 2021 3:23 PM
To: Bricker, Robert <RBricker@howardcountymd.gov>; Tom Lampros <tlampros@solarenergyworld.com>
Cc: Kristin Manzo <kmanzo@solarenergyworld.com>; Ryan Doyle <rdoyle@solarenergyworld.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: Re: 12578 Hall Shop Road_B21001951

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Good afternoon Robert,

Thanks you for your kind reply. Is the request I am to write supposed to be a formal letter? Or is a simply worded, emailed request what is called for?

Thanks,
Glen

--

Glen Henshaw
glen@toadhill.net
KC3AYG

On Mon, Jun 14, 2021, at 3:08 PM, Bricker, Robert wrote:

Gentle Persons,
I do not recall that I stated any issue with the proposed location of the solar panel array or the electrical connection. In fact, I think the proposed route for the electrical conductor is informed and well-planned. The location of the array appears to miss the repair trenches locations, though it would be wise for you to have a professional confirm the locations of the two trenches.

One of the sentences in my message to the property owner was incomplete so perhaps there is a misunderstanding. There is not a current Percolation Certification Plan for the property. In essence, there is not a designated sewage disposal area (SDA) on the property where the area has been tested and certified for wastewater treatment and disposal by signature of the Approving Authority. An area large enough to accommodate three drainfields for the residence must be designated per County Code. A solar panel array and the associated electrical conductor shall not occupy the same area as a SDA.

The waiver request, which must be submitted by the owner, for a Percolation Certification Plan to be developed for the property at this time. In essence, the waiver request is for the purpose of waiving the requirement for a SDA to be established at this time. I think the waiver can be approved and I expected that it would already have been approved during my absence.

Reiterating my initial instruction for Mr Henshaw: You may personally write your request and direct it to Jeffrey Williams, Supervisor, Well and Septic Program, whom I have copied on this email. The construction proposal shall remain 'On Hold' by the Bureau of Environmental Health until all requirements of the Bureau are fulfilled. A site inspection will be required during which the well and the area of the septic system will each be visually observed.

Robert Bricker, REHS/RS, L.E.H.S.

From: Tom Lampros <tlampros@solarenergyworld.com>

Sent: Thursday, June 10, 2021 12:47 PM

To: Bricker, Robert <RBricker@howardcountymd.gov>

Cc: Kristin Manzo <kmanzo@solarenergyworld.com>; Ryan Doyle <rdoyle@solarenergyworld.com>; Williams, Jeffrey <jewilliams@howardcountymd.gov>

Subject: RE: 12578 Hall Shop Road_B21001951

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Mr. Bricker,

When drawing this Site Plan, I used septic system location provided by the county. If you have a better delineation of the SDA, We would appreciate your providing it. Too, please provide some guidance on how far from the approved septic location we would need to be, as we have some flexibility in locating the array.

Much appreciated and best regards,

Stay well,

Tom Lampros

Sr. Solar Engineer

Solar Energy World

5681 Main St, Elkridge, MD 21075

Office: 410.579.5177 | Main office: 410.579.2009 | Cell: 518.618.7442 |

Fax: 443-200-6741

From: Ryan Doyle <rdoyle@solarenergyworld.com>
Sent: Thursday, June 10, 2021 12:15
To: Tom Lampros <tlampros@solarenergyworld.com>
Cc: Kristin Manzo <kmanzo@solarenergyworld.com>
Subject: FW: 12578 Hall Shop Road_B21001951

Hi Tom,

I was wondering if you'd be able to give some insight on this? Are we able to move the panels to avoid having to submit this waiver? Please let me know what you have to say about this at your earliest convenience.

Thanks!

Ryan Doyle
Permitting
SolarEnergyWorld
5681 Main St, Elkridge, MD 21075
(410) 579-5172
www.solarenergyworld.com

<image001.jpg>

From: Bricker, Robert <RBricker@howardcountymd.gov>
Sent: Monday, June 7, 2021 5:08 PM
To: GLEN@TOADHILL.NET
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Ryan Doyle <rdoyle@solarenergyworld.com>
Subject: 12578 Hall Shop Road_B21001951

Dear Mr Henshaw,

I have reviewed the proposal (B21001951) to install solar panels at your residence. I found data in the property file indicating that percolation tests were completed for defining a sewage disposal area (SDA) is defined and approved by signature of the Health Officer or Designated Authority. In that there is not a recognized SDA, and the solar installation is planned very near to the trenches installed as a repair, the Bureau of Environmental Health is requiring that you submit a request for waiver from the requirement to have a percolation certification plan.

You may personally write your request and direct it to Jeffrey Williams, Supervisor, Well and Septic Program, whom I have copied on this email. The proposal may remain 'On Hold' by the Bureau of Environmental Health until all requirements of the Bureau are fulfilled. A site inspection will be required during which the well and the area of the septic system will each be visually observed. If you have any documents which illustrate a sewage disposal area where indicated on the Plot

Plan, and also has an Approving Authority's signature, please submit a scan or copy with your request.

I will not be available to answer questions as I will be away from the office until late next week.

Robert Bricker, REHS/RS, L.E.H.S.

Environmental Sanitarian II

Bureau of Environmental Health, Well and Septic Program

APPLICATION

REPAIR

PERCOLATION TESTING

A REPAIR

P 518646-A

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 4/30/03

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Hall

ADDRESS 12578 Hall Shop Rd PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

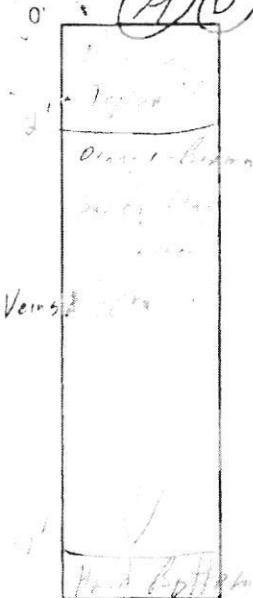
PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

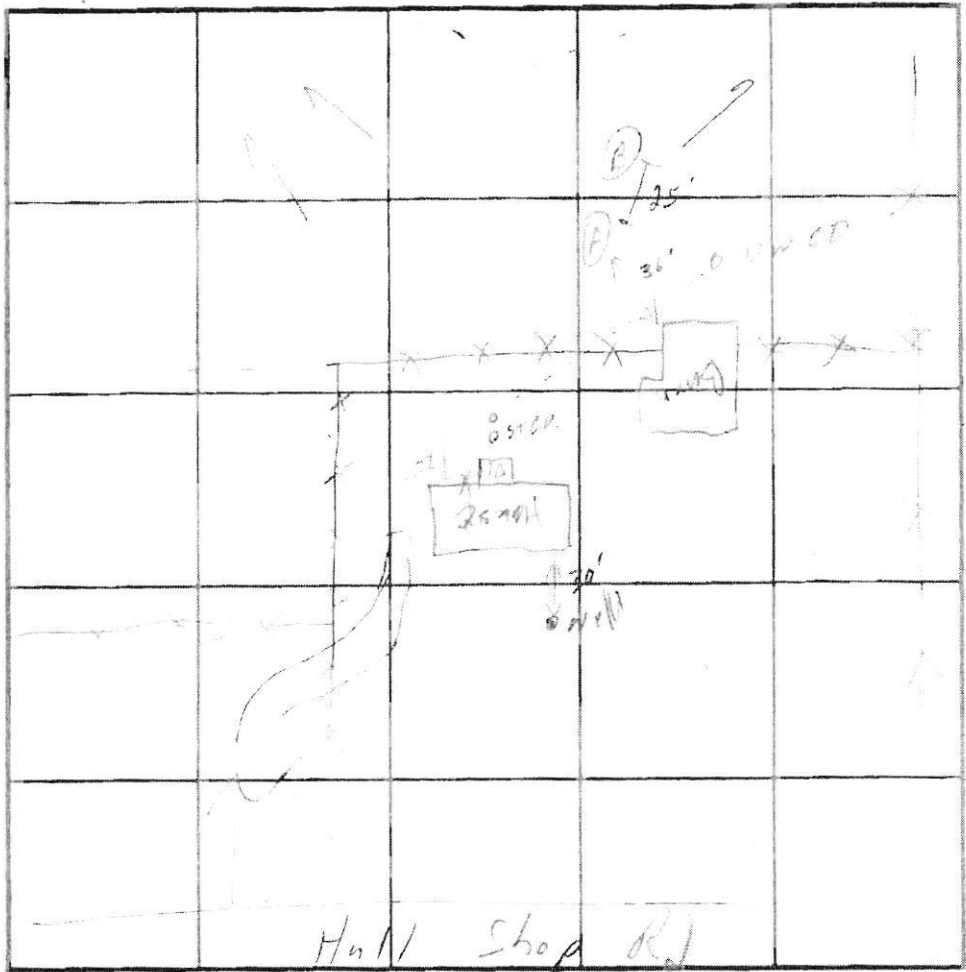
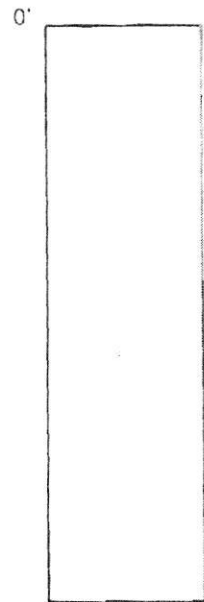
THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE



SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
5/1/03	A ¹	4' T 11' V	10:23	10:40	Moved by width of trench 4"			
		5' T	Into a heavy gray clay soil (Packed)					
		12' to other side of perc hole (A)						
	A ²	4' T 11' V	10:50	10:51	10:51	10:53	2 min	
	B	Same as (A)						

REMARKS _____

TYPE OF SOIL _____

TESTED BY S. Dyer ALSO PRESENT Kenny Cice

TRENCH DESIGN DATA. AVERAGE PERCOLATION TIME 2-7 min est. TRENCH WIDTH 2'

INLET DEPTH 3 MAXIMUM BOTTOM DEPTH 7 SQ FT/BEDROOM 180

5/1/03 9:30 5/13/03 - 11:30 - 12

PUB. SEWER STATUS VERIFIED BY NA

ISSUE DATE: 4/30/2003

P 518 646-A

APPROVAL DATE: 5/13/03

A REPAIR

PERMIT

INDEXED

ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

05-368288

Hatfields Equipment IS PERMITTED TO INSTALL ALTER

ADDRESS: 13785 Burntwoods Road, Glenelg PHONE NUMBER: 301-854-6172

SUBDIVISION: _____ LOT NUMBER: 5-A

ADDRESS: 12578 Hall Shop Road PROPERTY OWNER: Cynthia Hall

SEPTIC TANK CAPACITY (GALLONS): EX 1000

PUMP CHAMBER CAPACITY (GALLONS): N/A

NUMBER OF BEDROOMS: 3

SQUARE FEET PER BEDROOM: 160

LINEAR FEET OF TRENCH REQUIRED: 100' (2) 50'

TRENCHES:	Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 7 feet below original grade. Effective area begins at 3 feet below original grade. 4 feet of stone below distribution pipe.
LOCATION:	Install (2) 50' trenches on contour D.B. in line to P.W. w/ speed trencher up to P.W.
PURPOSE:	Septic system has failed. Call for inspection when ground is opened so sanitarian can recommend repair. Start trenches 50' off fence

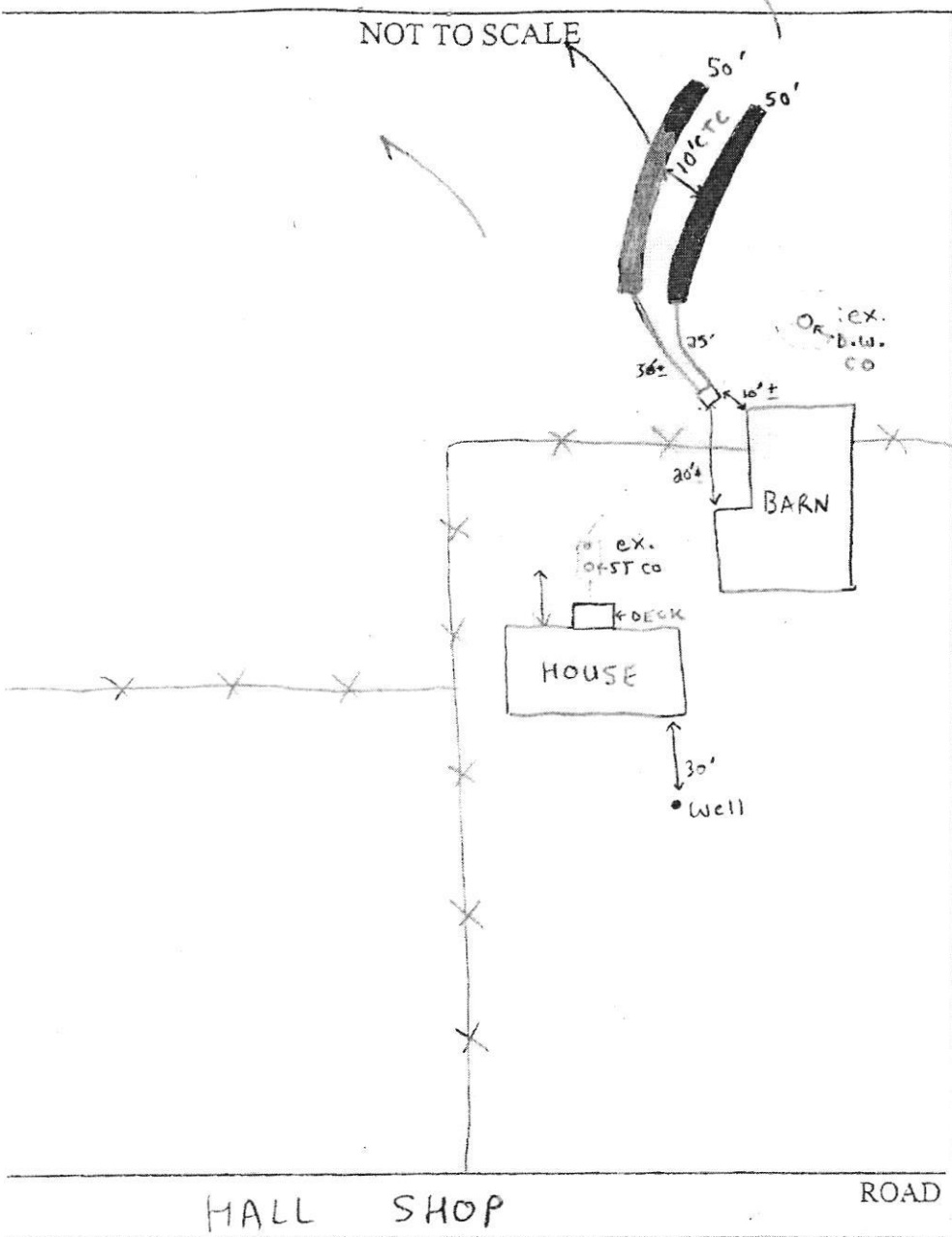
PLANS APPROVED: Stuart Oster DATE: 4/30/2003

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM BUILDING PERMITS DESIGNED AND RETURNED TO THE BUREAU OF ENVIRONMENTAL HEALTH FOR OBTAINING FINAL APPROVAL ON THIS PERMIT AND RETURNED TO THE BUREAU OF ENVIRONMENTAL HEALTH CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

530-02 B00142147-AG POOL

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		100'
ABSORPTION AREA		200 ft ²
DISTRIBUTION BOX LEVEL		✓
DISTRIBUTION BOX BAFFLE		✓
DISTRIBUTION BOX PORT		NA

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	existing
CAPACITY	1000? GAL
SEAM LOC	mid?
TANK LID DEPTH	?
BAFFLES	OK
BAFFLE FILTER	NA
MANHOLE LOC	NA
6" PORT LOC	front
WATERTIGHT TEST	NA
SEPTIC TANK 2 LEVEL	NA
CAPACITY	↑ GAL
SEAM LOC	↓
TANK LID DEPTH	↓
BAFFLES	↓
BAFFLE FILTER	↓
MANHOLE LOC	↓
6" PORT LOC	↓
WATERTIGHT TEST	↓

PRE-CONSTRUCTION 5/1/03-DUG PERC HOLE IN LOCATION (A) & (B) SEE PERC TEST SHEET, INSTALL AS DISCUSSED - (SD) SRV

INSTALLATION 5/13/03-OK TO COVER ALL WORK - (SRV)

FINAL INSPECTOR Steven R. Krieg DATE OF APPROVAL 5/13/03

SITE INSPECTION SHEET

OWNER: Cynthia Hall PHONE #: _____

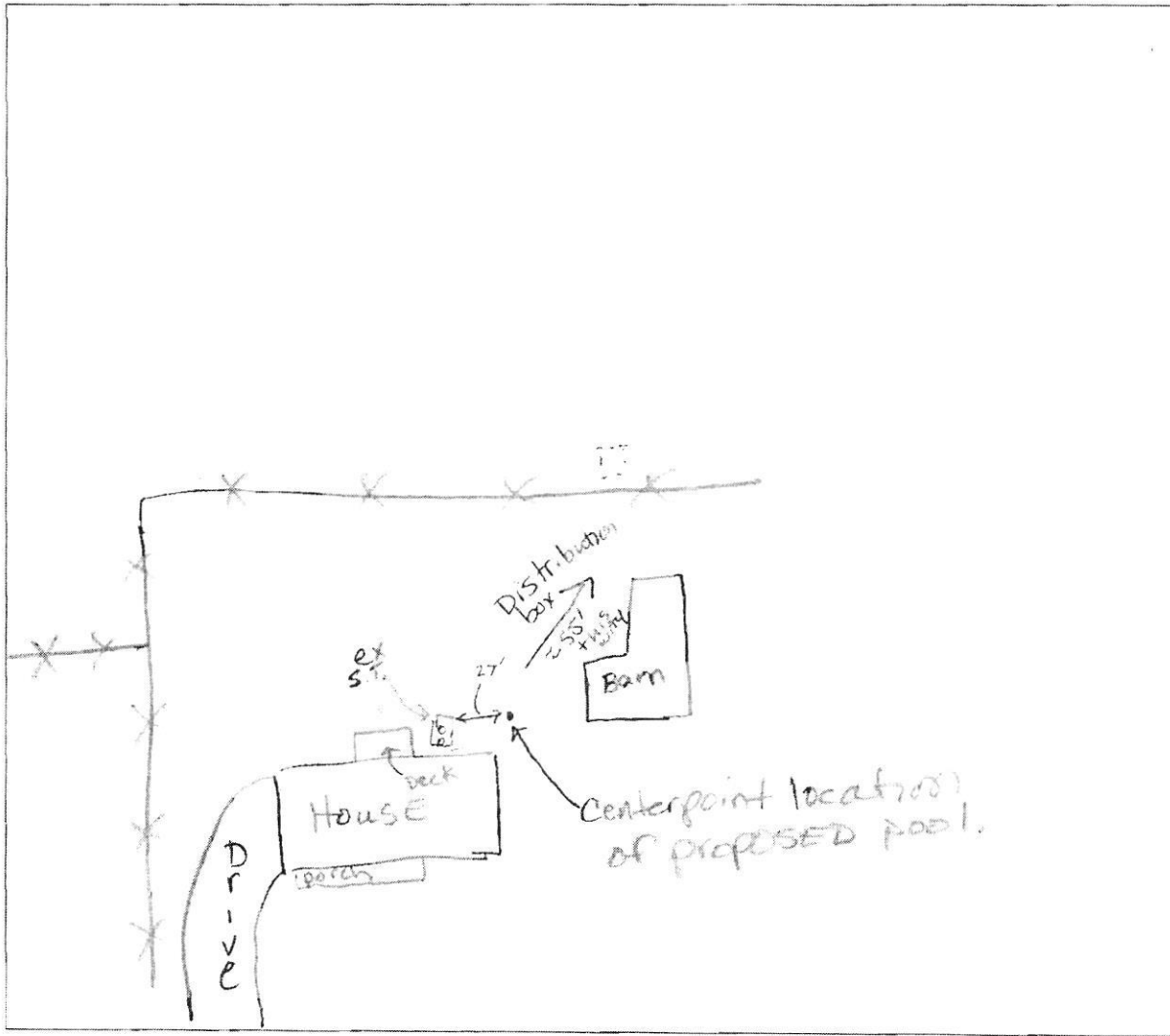
ADDRESS: 18578 Hall Shop CONTRACTOR: _____

WELL TAG #: _____

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: 5/30/03 BP 00142147 Locate septic tank from proposed above-ground pool

LOCATION DIAGRAM



COMMENTS: 5/30/03 Pool 24' in diameter; edge of pool 13' away from septic tank & > 20' to distribution box - signed bl. (KN)

DATE: 5/30/03 INSPECTOR: Kacie Moran