

Approved
MPC 2/4/2

Record Detail * (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Solar Panel	B25005116	11/14/2025
Description of Work		
SFD/ INSTALLING 24 GROUND MOUNTED SOLAR PANELS - 10.320 KW**SUBJECT TO FIELD INSPECTION**		

Online BP.
8/11/18/25[check spelling](#)

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
13157	BENSON ESTATES	CT	
Unit Type	Unit #	X Coordinate	Y Coordinate
-Select-		-76.96725	39.26884
City	State	Zip Code	Primary
ELLICOTT CITY	MD	21042	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
895503	558	1.17	352900	936900	584000	RURAL
Legal Description						
IMPSLOT 8 1.17 A[]13157 BENSON ESTATES CT[]BENSON BRANCH ESTATES						

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	8	603000	5				
Plan Area	State Tax Id	Subdivision Name					
	1403320480	BENSON BRANCH ESTATES					
Section	Area	Tax Map					
		22					
Grid	Zoning District	ADC Map					
22-10	RR-DEO	4813-F8					
SDP No.	Final Plan No.	WP File No.					
Record Plat No.	WS Contract No.	FDP No.	Primary				
12133			Yes				
Owner Occupied	Year Built	Historic District					
☐ Yes ☐ No	1996	☐ Yes ☒ No					
Historic District Registry No.	Stat Area	Flood Plain					
	3-08A	☐ Yes ☒ No					
Building No							

Owner * (This section is required.)

Search Reset Clear

Name *
CHUA I
Address Line 1
13157 Benson Estates Ct
Address Line 2
Address Line 3
Mail City

ELLICOTT CITY

Mail State

MD

Mail Zip Code

21042

Phone

301-569-2342

Primary

Yes

E-mail

permitting@sustainableenergysystems.net

Cell Number

Fax Number

Professionals * (This section is required.)

License # *

08050128665

License Type *

MHIC Co

Primary

Yes

Business Name

SUSTAINABLE ENERGY SYSTEMS LLC

First Name

▼ ZAYN

Middle Name

HARRIS

Last Name

BRADLEY

Address Line 1

▼ 4509, H, METROPOLITAN COURT

Address Line 2

City

FREDERICK

Phone 1

3012400502

E-mail

ZAYN@SUSTAINABLEENERGYSYSTEMS.NET

State

MD

ZIP Code

21704-0000

Phone 2

Fax

Applicant * (This section is required.)

Search

As Owner

As Lic. Prof

As Contact

Type *

Applicant

Relationship

Applicant

Primary

Yes

First Name

▼ ZAYN

MI

Last Name

HARRI BRADLEY

Full Name

▼ ZAYN HARRIS BRADLEY

Organization Name

SUSTAINABLE ENERGY SYSTEMS LLC

Street Address

4509, H, METROPOLITAN COURT

Address Line 2

City

FREDERICK

Phone

3015692342

E-mail *

permitting@sustainableenergysystems.net

State

MD

Zip Code

21704 000

Cell

Fax

Addtl Info

Est Construction Cost *

20640

Housing Units *

0

Number of Buildings *

0

Public Owned

No

Construction Type

434 - Additions, Alterations and Conversions - Residential

RESIDENTIAL SOLAR PANEL INFO

SOLAR PANEL INFORMATION

Capital Project-No Fee

☐ Yes ☐ No

Type of Installation *

Solar Collector - Ground Mount

Number of Panels *

24

Water Supply *

(Number) Private

Sewage Disposal *

▼ Public

Expiration Date

▼ 5/13/2026

Existing Use *

SFD

Sprinkler System *

▼ ☐ Yes ☒ No

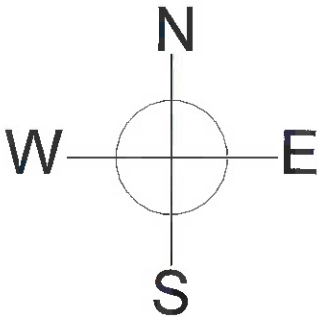
Energy Storage System *

☐ Yes ☒ No

PAYMENT INFORMATION

Submit Cancel

ARTHUR CHU 10.320 kW
13157 Benson Estates Ct,
Ellicott City, MD, 21042
(240) 432-6085
crossle_32f@yahoo.com



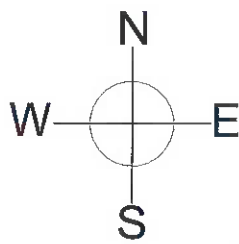
10' Setback

(E) SEPTEC

(N) INVERTER

80'

20'



15 ft

28 ft

(N) TRENCH

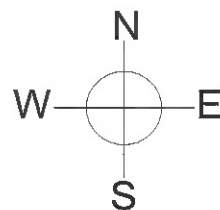
(N) UTILITY DISCONNECT

(E) UTILITY METER

BENSON ESTATES CT

BENSON ESTATES CT

ARTHUR CHU 10.320 kW
13157 Benson Estates Ct,
Ellicott City, MD, 21042
(240) 432-6085
crossle_32f@yahoo.com



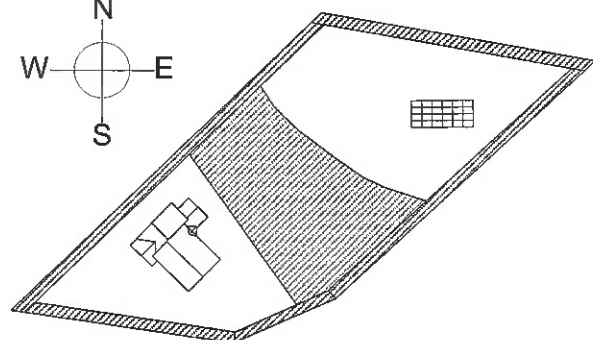
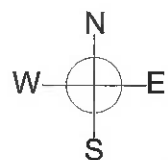
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(N) INVERTER

80'

20'

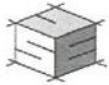


(N) TRENCH

(N) UTILITY DISCONNECT
(E) UTILITY METER

BENSON ESTATES CT

BENSON ESTATES CT



STRUCTURAL ENGINEERING UNLIMITED, LLC

Sustainable Energy Systems, LLC

4509 Metropolitan Court

Frederick, MD 21704

Attn: Mr. Rollie Belles III

October 15, 2025

Re: 13157 Benson Estates Ct, Ellicott City, MD 21042
Structural Certification.

Mr. Belles:

In accordance with your request I, Juan Utrera P.E. acting as an independent structural engineer for the project, located on 13157 Benson Estates Ct, Ellicott City, MD 21042, have reviewed the information provided by Sustainable Energy Systems, LLC for the installation of the "ground-mounted" solar panels.

The proposed solar panels will be supported with 3" diameter galvanized piping embedded on 24" diameter concrete filled piers and the RT Mini mounting system and the SUNMOD Cross Rail System with a post spacing of 16.5 ft. maximum.

Based on the information provided it is my professional opinion that the concrete filled foundations, 3" diameter galvanized piping and the SUNMOD Cross Rail System are structurally sound and adequate to support the 3 PSF dead load of the solar panels.

Should you have any questions regarding the information submitted, or if I can be of further assistance, please call me at (301) 748-2769.

Sincerely,

Juan M. Utrera, P.E.

President

Structural Engineering Unlimited, LLC



10/15/2025

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.

License No. 24518 Expiration Date: 9/21/2027

SOLAR PV PROJECT, CHU, ARTHUR 10.320 kW



13157 Benson Estates Ct, Ellicott City, MD, 21042

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.
License No. 24518 Expiration Date: 9/21/2027

DRAWING INDEX	BOS/TRENCH DRAWINGS	MSP DRAWINGS
G000 COVER Z001 SITE PLAN S001 ARRAY LAYOUT S002 STRING LAYOUT S003 SECTION S004 SECTION S005 SECTION E001 ONE LINE CUTSHEETS SCOPE OF WORK: Installing 24 Ground Mounted Solar Panels - 10.320 kW APPROVED BY: (sign here)	Run GC through the site. Bring AC into the 100 TRENCH via the 1 inch Conduit AC in trench to house. Conduit AC in 100 TRENCH from array to house. Run TRENCH into the house located on house. Bring conduit up after wall and bring into conduit along towards Main area. AC/100. Use this equipment to be placed along (bottom) of TRENCH, remove dirt. Conduit AC, with sensor, between. Bring AC up and into the house. Run AC up AC, 100/100, running from the bottom. Bring AC down 100/100 and punch into basement near GC, SEC.	Punch into bottom left of MSP. Perform lineside tap in (E) SD HOM 200A bus/main MSP. Permanently crimp ground to (E) GEC.

ARRAY LAYOUT

PV MODULE SPECS:
SEG 430 watt
Module Weight: 45.2 lbs
Module Length: 67.8"
Module Width: 44.6"
Frame: 1.2" (30mm)

ARTHUR CHU 10.320 kW
13157 Benson Estates Ct,
Ellicott City, MD, 21042
(240) 432-6085
crossle_32f@yahoo.com

1. 3" GALVINIZED PIPE
2. K2 GN TOP CAP
3. K2 GM ADJUSTABLE L-BRACKET
4. CrossRail 80
5. CrossRail Mid Clamp
6. CrossRail End Clamp

36" POST
Above Ground
(FRONT)

88" POST Above
Ground(REAR)

36" Post
HoleHalf
Concrete Fill
(FRONT)

36" Post
HoleHalf
Concrete Fill
(REAR)

CONCRETE
FILL650lbs

CONCRETE
FILL550lbs

12" Rebar (3/8")Welded to end of Each Post



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.
License No. 24518 Expiration Date: 9/21/2027

Sustainable Energy Systems, LLC

301-788-4003

4509 METROPOLITAN CT FREDERICK, MD 21704

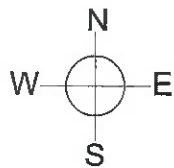
SR

S001 ARRAY LAYOUT

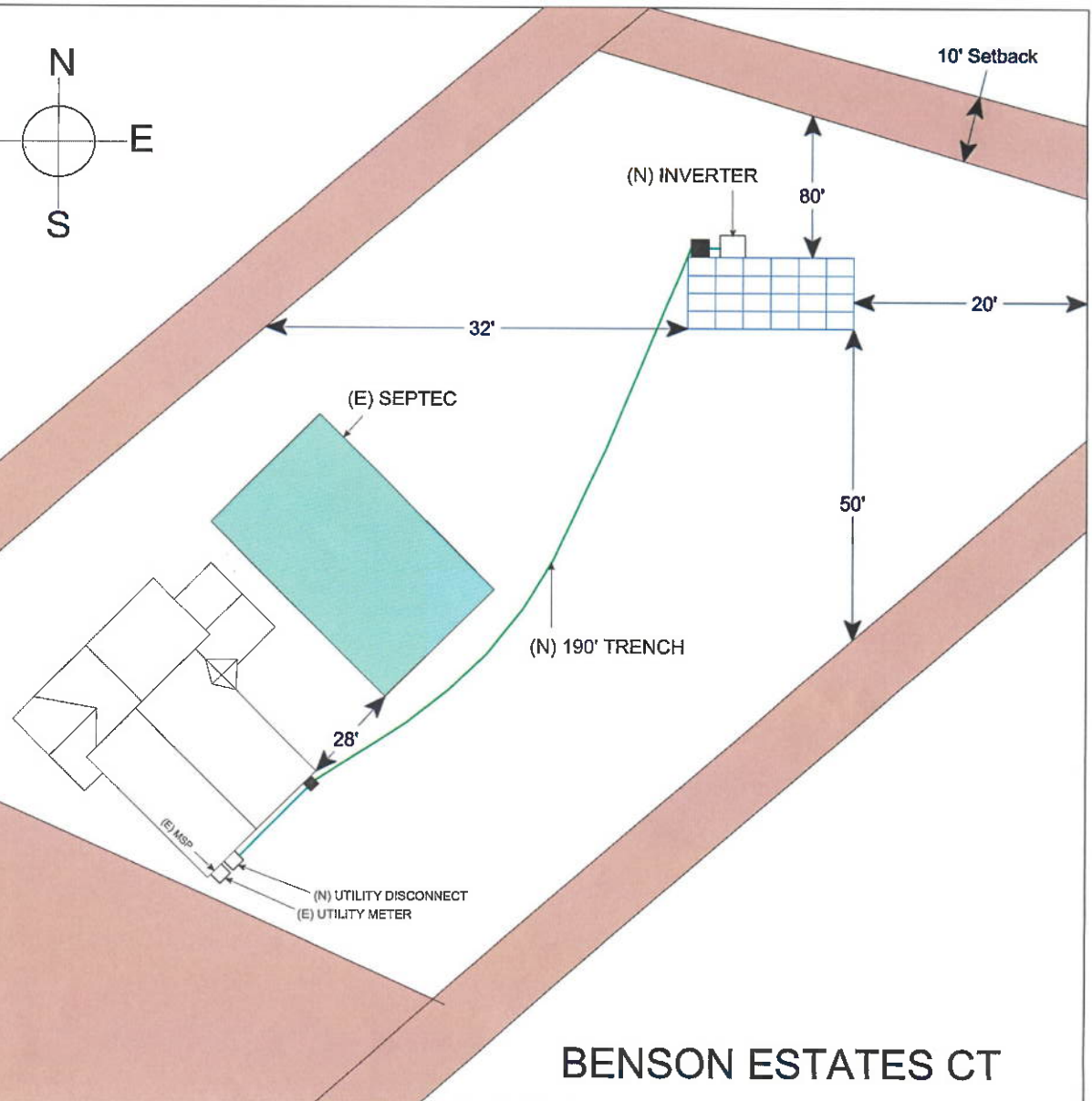
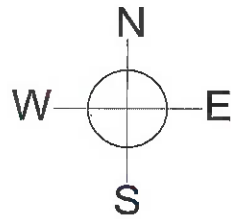
ARTHUR CHU 10.320 kW
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Ellicott City, MD, 21042
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Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.
License No. 24518 Expiration Date: 9/21/2027



BENSON ESTATES CT



BENSON ESTATES CT

SUSTAINABLE ENERGY SYSTEMS, LLC

301-788-4003

4509 METROPOLITAN CT, FREDERICK, MD 21704

SR

001 SITE PLAN

Handwritten signature: Nevil

Eshenbaugh, Melanie

From: Permitting Team <permitting@sustainableenergysystems.net>
Sent: Monday, February 2, 2026 3:58 PM
To: Eshenbaugh, Melanie
Subject: Re: B25005116

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Hi Melanie,

I uploaded the new site plan into the portal.

Thank you,

On Mon, Jan 26, 2026 at 10:50 AM Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov> wrote:

Good morning,

After review of the revised plan showing the new trench location for the utility line along the edge of the property at 13157 Benson Branch, we kindly request that you overlay the septic system (septic tank, 60' long trenches & dbx) on the latest plan to ensure no impact to the septic trenches. Please let me know if you have any questions and thank you.

Melanie Eshenbaugh

Bureau of Environmental Health

Howard County Health Dept.

8930 Stanford Blvd. Columbia, MD 21045

www.hchealth.org

Eshenbaugh, Melanie

From: Eshenbaugh, Melanie
Sent: Monday, January 26, 2026 10:50 AM
To: 'Permitting Team'
Subject: RE: B25005116

Good morning,

After review of the revised plan showing the new trench location for the utility line along the edge of the property at 13157 Benson Branch, we kindly request that you overlay the septic system (septic tank, 60' long trenches & dbx) on the latest plan to ensure no impact to the septic trenches. Please let me know if you have any questions and thank you.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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From: Permitting Team <permitting@sustainableenergysystems.net>
Sent: Friday, December 19, 2025 2:18 PM
To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>
Subject: Re: B25005116

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Hi Melanie,

So the trench is about 24" deep - the National Electric Code requires 18"

Attached below is just a mock up of where the ground mount would be placed and the trench path after finding out about how big the septic field is. If this is something that would be approved, we would resend out our field guys to get accurate measurements for the trench and such.

Thank you,

On Fri, Dec 19, 2025 at 9:20 AM Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov> wrote:

Good morning,

I don't believe that should be an issue. How deep would the trench be and could you provide me with a plan showing what you're describing below? Thank you kindly.

Melanie Eshenbaugh

Bureau of Environmental Health

Howard County Health Dept.

8930 Stanford Blvd. Columbia, MD 21045

www.hchealth.org



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From: Permitting Team <permitting@sustainableenergysystems.net>

Sent: Thursday, December 18, 2025 4:40 PM

To: Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov>

Subject: Re: B25005116

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Hi Melanie,

I just wanted to follow up on my previous email. Would we be able to trench around the septic into the setback?

Thank you,

Lindsay Nawrot

Permitting Department Supervisor

Sustainable Energy Systems

301-569-2342



On Tue, Dec 16, 2025 at 1:38 PM Permitting Team <permitting@sustainableenergysystems.net> wrote:

Hi Melanie,

Apologies for a delay in response to this. I had a question. If we installed the ground mount behind the septic field, would we be able to trench in the setback?

Also, thank you for sending me the plat. I did not know how huge the septic field was!

Thank you,

On Wed, Nov 26, 2025 at 4:08 PM Eshenbaugh, Melanie <MEshenbaugh@howardcountymd.gov> wrote:

Good afternoon,

After conducting a site visit to the property at 13157 Benson Estates and reviewing the documents submitted with the building permit request (B25005116), we kindly request a revised site plan to scale showing all septic components on the property (see attached record) as there are minimum setbacks that must be confirmed. In addition, the solar panel transmission line appears to be running through the sewage disposal area (SDA) with a potential impact to the septic system (see attached septic details on pages 1 & 2), and caution would be advised with both the existing septic and future replacement trenches. Please let me know if you have any questions and hope you have a wonderful holiday.

Melanie Eshenbaugh

Bureau of Environmental Health

Howard County Health Dept.

8930 Stanford Blvd. Columbia, MD 21045

www.hchealth.org



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Eshenbaugh, Melanie

From: Eshenbaugh, Melanie
Sent: Wednesday, November 26, 2025 4:08 PM
To: 'permitting@sustainableenergysystems.net'
Subject: B25005116
Attachments: A50387-M_03-320480_13157_BENSON_ESTATES_COURT (1).pdf

Good afternoon,

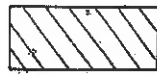
After conducting a site visit to the property at 13157 Benson Estates and reviewing the documents submitted with the building permit request (B25005116), we kindly request a revised site plan to scale showing all septic components on the property (see attached record) as there are minimum setbacks that must be confirmed. In addition, the solar panel transmission line appears to be running through the sewage disposal area (SDA) with a potential impact to the septic system (see attached septic details on pages 1 & 2), and caution would be advised with both the existing septic and future replacement trenches. Please let me know if you have any questions and hope you have a wonderful holiday.

Melanie Eshenbaugh
Bureau of Environmental Health
Howard County Health Dept.
8930 Stanford Blvd. Columbia, MD 21045
www.hchealth.org



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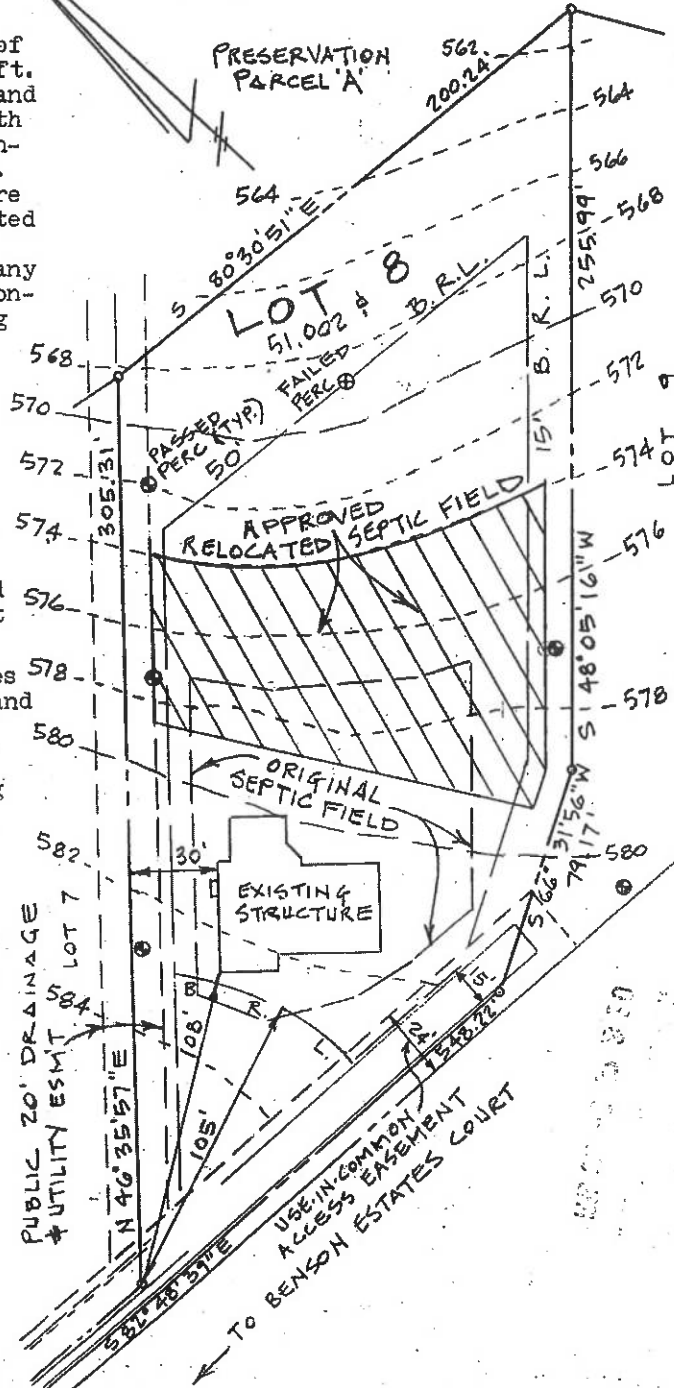
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This area designates a private sewage easement of approximately 10,000 sq.ft. as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available and servicing any residential structures constructed on this building site. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

All percolation test holes have been field located and shown thus ●

Percolation areas and water wells for adjoining lots have been shown where pertinent.

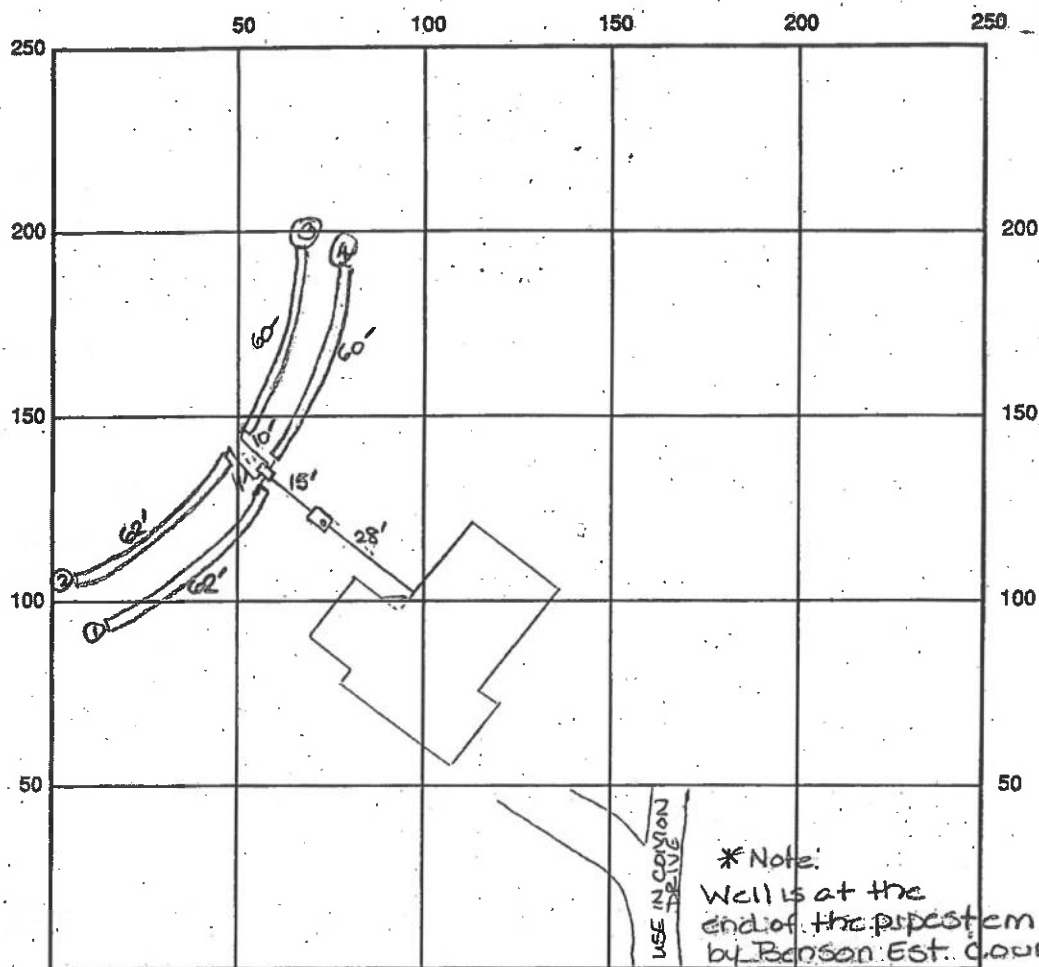


APPROVED: For Private water and Private sewage systems- Howard County Health Department.

Joseph M. Broghue 9-5-96
County Health Officer Date *AW*

BUILDER
HAMILTON REED
10805 Hickory Ridge
Suite 215 Road
Columbia, MD. 21044

SEPTIC FIELD RELOCATION	
LOT 8 BENSON BRANCH ESTATES	
3RD ELECTION DISTRICT HOWARD COUNTY, MD.	
SCALE: 1" = 50'	DATE: JULY 25, 1996



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE Benson Estates Court

SEPTIC TANK LEVEL 1250 gal CLEANOUTS one on s.t.

DISTRIBUTION BOX LEVEL OK - same in

DRAIN FIELD/TITLE DEPTH 4 FT. TRENCH WIDTH 13 FT. INLET DEPTH 2 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 262 FT. 262 @ 60 @ 60 → 244

NUMBER OF TRENCHES 4 ONE SIDEWALL BOTTOM AREA 732 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA 732 SQ. FT.

REMARKS: 10/11/96 OK to cover house to tank

10/17/96 OK to cover first two trenches and continue. DKS

10/18/96 FINAL OK to cover all work. DKS

DATE SYSTEM APPROVED 10/18/96

INSPECTOR Spencer & Spore