



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

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

APPLICATION FOR PERCOLATION TESTING AND SITE EVALUATION

A504019

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Parkside
PROPERTY ADDRESS 1820 WOODSTOCK RD WOODSTOCK, MD 21163
STREET TOWN ZIP
TAX ACCOUNT # 403310450 TAX MAP 10 GRID 23 PARCEL 36 LOT NO. 16 PROPOSED LOT
ZONING CATEGORY N/A TIER N/A SIZE (ACRES)

PROPERTY OWNER(S) Gward & Knudsen Ward
DAYTIME PHONE CELL EMAIL gward@imeccgroup11c.com
MAILING ADDRESS 1820 Woodstock Road, Woodstock, MD 21163
STREET CITY, STATE ZIP

APPLICANT CLSI / Linda Alexander RELATIONSHIP TO OWNER: Engineer
DAYTIME PHONE CELL 443-375-9903 EMAIL lalexander@cisimail.com
MAILING ADDRESS 439 E. Main St, Westminster, MD 21157
STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- ☐ SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE:
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) ☐ MAJOR ☐ MINOR
- ☐ CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- ☐ REPAIR OR REPLACE FAILING OSDS
- ☐ UPGRADE EXISTING OSDS

BUILDING:

- ☒ RESIDENTIAL WITH 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- ☐ COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- ☐ YES
- ☒ NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

SIGNATURE OF APPLICANT

DATE

A/P

1820 Woodstock Road

Quarter House Drive

#1

Red Brown
yellow
Sch

4.5

Red Brown
yellow
SchH₂O in
the Bottom
Silty
Cave In
@ 10'

#2

Red Brown
yellow
Sch

3.0

Red Brown
yellow
FSLSilty
wet @ 12.5'H₂O in
the Bottom
@ 14'

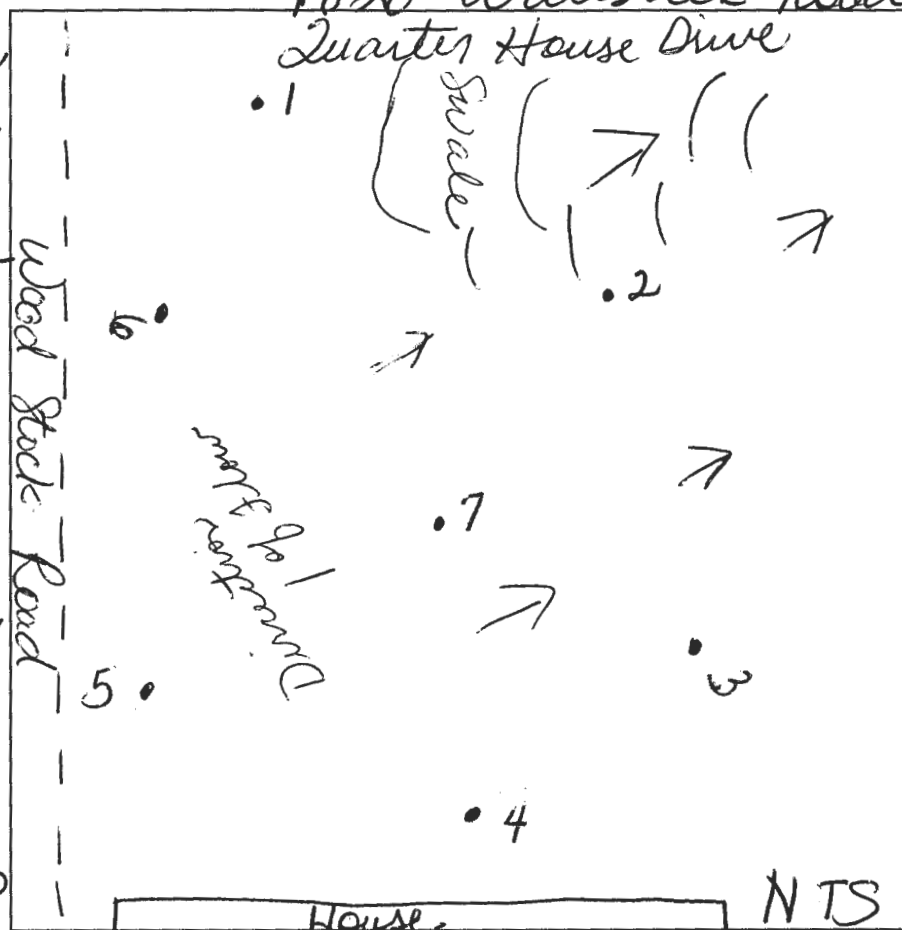
#3

Red Brown
yellow
Sch

3.5

Red Brown
yellow
FSLmany
mud
↓

14'

#4
Red Brown
yellow
Sch

2.8'

Red Brown
yellow
FSL
Silty
↓

14.2

#5

Red Brown
yellow
Sch

3.0'

Red Brown
yellow
FSL
Silty
many
mud
↓

14

#6

Red Brown
yellow
Sch

#7

Red Brown
yellow
Sch

3'

Red Brown
yellow
FSL
Silty
↓

14'

Red Brown
yellow
FSL
Silty
many
mud
↓

14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11-1-18	1	5/14	11:05	11:30	Ran very slow NO Buffer		F
11-1-18	2	4.9/14	11:14	11:16	11:18	2min	P
11-1-18	3	4.3/14	11:24	11:32	11:43	10min	P
11-1-18	4	2.8/14.2	11:40	11:42	11:45	3min	P
11-1-18	5	4.2/14	11:52	11:59	12:10	11min	P
11-1-18	6	4.8/14	11:57	11:59	12:02	3min	P
11-1-18	7	4.3/14.4	12:05	12:07	12:09	2min	P

REMARKS

Existing System TBA (Hole #1 cannot be used in area)

SANITARIAN

D. Bernard

BACKHOE

OTHERS

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W

NOTE: FINISHED FLOOR (FF) ELEVATION
AS SHOWN HEREON IS BASED ON
HOWARD COUNTY DPW SURVEY CONTROL
POINT 17AB, ELEVATION = 508.401 FEET
AND THE NAVD88 VERTICAL DATUM.

N/F
RICHARD & LUCILLE
CHLER
LOT 14, PLAT 9682
NO. 1708 NEW HAMPTON LN

N/F
BRIAN & LISEY KAHAT
LOT 13, PLAT 9682
NO. 1908 QUARTER HORSE DR

N/F
JASVINDER SINGH
& RAJINDER JAIR
LOT 17, PLAT 9682
NO. 1901 QUARTER HORSE DR

N/F
MARIA MASSAR
LOT 12, PLAT 3881
NO. 1821 WOODSTOCK RD

N/F
SONSHINE MD LP
L 19655, F. 97
LOT 2, PLAT 3881



PLAN
SCALE: 1" = 100'

I hereby certify that I have surveyed the property shown hereon
for the sole purpose of locating the improvements. This plan is
a benefit to the customer only insofar as it is required by a
lender or a title insurance company or its agent in connection
with contemplated transfer, financing or refinancing. It is not
to be relied upon for the establishment of boundary, easement or
right-of-way lines for any reason, such as the location of fences,
garages, buildings, or other existing or future improvements.
Offsets of buildings to property lines are to the nearest foot
(1') unless otherwise noted.

By: Mark A. Riddle Date: 8/29/19
Mark A. Riddle, Professional Land Surveyor No. 10899
License renews May 19, 2020

A licensed Maryland Surveyor either personally prepared this
Foundation Certification, or was in responsible charge over its
preparation and the surveying work reflected in it, in
compliance with the Maryland Minimum Standards of Practice
for Land Surveyors. (COMAR 09-13-06.06 AND .12)

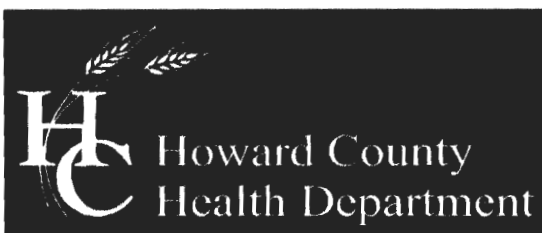
1820 Woodstock Rd.
Woodstock, Md.
FOUNDATION CERTIFICATION - LOT 16
1820 WOODSTOCK ROAD
PARKSIDE

3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 10 • BLOCK: 23 • PARCEL: 36
RECORDED IN PLAT #9682



439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	JLW
DESIGN BY:	
REVIEW BY:	MAR
DATE:	08-27-19
SCALE:	AS SHOWN
JOB NO:	2018190
SHEET:	1 OF 1



Office of the Health Officer

8930 Stanford Blvd., Columbia, MD 21045

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TO: CLSI Engineering
C/O Linda Alexander
Via E-mail: lalexander@slcimail.com

FROM: Dana Bernard, REHS/L.E.H.S.
Well and Septic Program

RE: 1820 Woodstock Road
Tax Map 10, Parcel 36
Percolation Certification Testing Results

DATE: November 7, 2018

Percolation testing was conducted on the referenced property on November 1, 2018. The proposed for conducting these percolation tests was to establish sewage disposal areas for the existing property.

A total of seven (7) test holes were evaluated and six (6) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the six (6) percolation test holes which were satisfactory. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

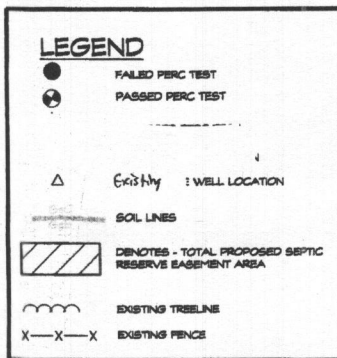
The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve areas. Your plan must contain all of the surrounding properties including the septic and well areas. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Sincerely,

A handwritten signature in cursive script that reads 'Dana Bernard'.

Dana Bernard, REHS/RS
Environmental Specialist II
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: DBernard@howardcountymd.gov

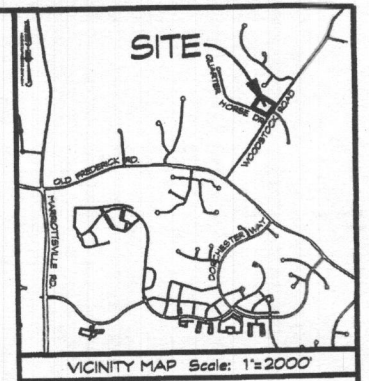
CAD Drawing File Name: s:\97230\dwg\sewer\sewer.dwg



SEPTIC SYSTEM TRENCH DESIGN:

INITIAL SYSTEM:
PROPOSED NUMBER OF BEDROOMS = 6
APPLICATION RATE = 1.2 GPD/SQ. FT.
EFFECTIVE DEPTH IS 2'
150 GALS x 6 BEDROOM = 900 GAL/DAY
900 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 3 FT. = 250 L.F. OF TRENCH
250 L.F. x .625 = 156.25 L.F. OF TRENCH - 157 L.F.
USE 3-53 L.F. OF TRENCH FOR EACH SYSTEM

REPLACEMENT SYSTEM 1 & 2:
PROPOSED NUMBER OF BEDROOMS = 6
APPLICATION RATE = 0.8 GPD/SQ. FT.
EFFECTIVE DEPTH IS 2.5'
150 GALS x 6 BEDROOM = 900 GAL/DAY
900 GAL/DAY / 0.8 GAL/DAY/SQ. FT. = 1125 SQ. FT.
1125 SQ. FT. / 3 FT. = 375 L.F. OF TRENCH
375 L.F. x .56 = 210 L.F. OF TRENCH - 210 L.F.
USE 3-70 L.F. OF TRENCH FOR EACH SYSTEM



GENERAL NOTES

- CURRENT TITLE REFERENCE:
OWNER: GUDELL & KHUDAY WARD
DEED REFERENCE: L. 16458, F. 262
DATE: SEPTEMBER 23, 2016
GRANTOR: WILLIAM DRUSCHEL
- THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 200 SCALE TOPO MAPS AND VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY. TOPOGRAPHY OF THE SEWAGE DISPOSAL AREA WAS FIELD VERIFIED BY CLSI.
- EXISTING WELLS AND/OR SEWER EASEMENTS WITHIN 100' OF THE LOT LINES HAVE BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC EASEMENT AREA SHOWN.
- M.S.L. DENOTES MINIMUM BUILDING LINE.
- ANY CHANGES TO THE PRIVATE SEWER EASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE ORIGINAL PERCOLATION TEST LOCATIONS WERE TAKEN FROM THE INFORMATION PROVIDED BY THE HEALTH DEPARTMENT.
- SHOULD STORMWATER MANAGEMENT BE REQUIRED, IT WILL BE PROVIDED BY A DRY WELL ON SITE.

DATA TABULATIONS

- ZONING DISTRICT: RC-DBO
- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 3.09 ACRES

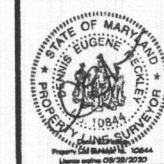
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PURPOSE NOTE:
THE EXISTING SINGLE FAMILY HOME IS TO BE DEMOLISHED AND A NEW SINGLE FAMILY HOME CONSTRUCTED.

OWNER/DEVELOPER
GUDELL & KHUDAY JA WARD
1820 WOODSTOCK ROAD
WOODSTOCK, MD 21163

PERC CERTIFICATION PLAN 1820 WOODSTOCK ROAD PARKSIDE LOT 16

3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 10 • BLOCK: 23 • PARCEL: 36
RECORDED IN PLAT #9682



439 East Main Street Westminster, MD 21157-5539
(410) 846-1780 FAX (410) 846-1791

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

Barbara M. Roseman 12/20/2018
HOWARD COUNTY HEALTH OFFICER

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dennis E. Peckley 12/10/18
DENNIS E. PECKLEY, PROPERTY LINE SURVEYOR NO. 10844

Date	Revisions	Drawn By	VR/LDA
12/6/2018	revd perc test numbers per county code	ld	Designed By: LDA
			Reviewed By:
			Date: 1/16/2019
			Scale: 1"=30'
			Job No: 2018190
			Sheet: 1 of 1

County File No. F- -

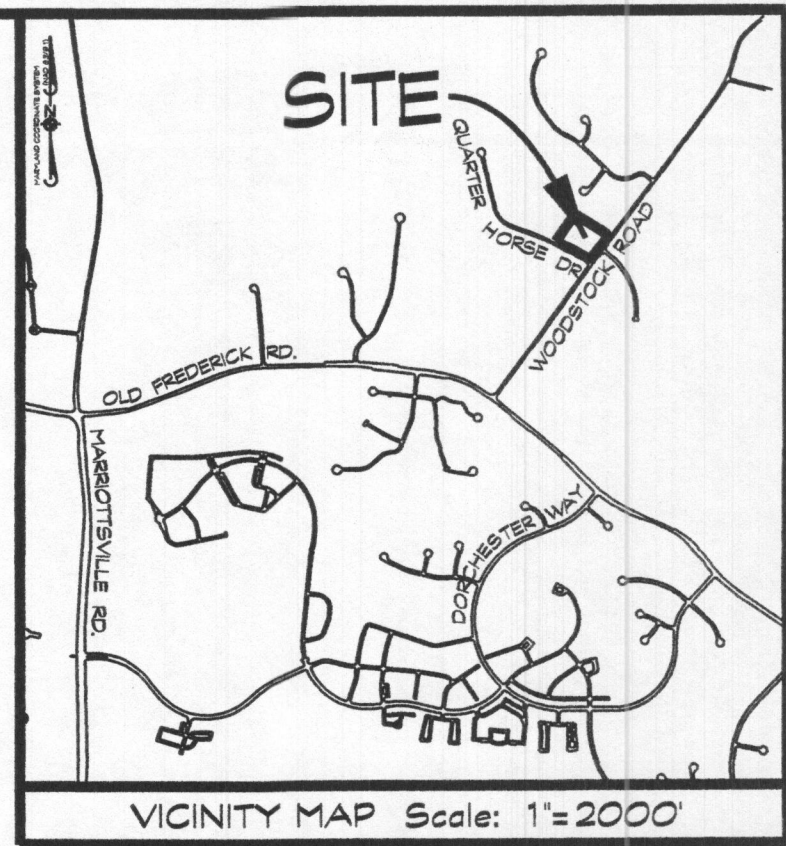
CAD Drawing File Name: g:\9730\dwg\sewer\plans\

MARYLAND COORDINATE SYSTEM
(NAD 83)

SEPTIC SYSTEM TRENCH DESIGN:

INITIAL SYSTEM:
PROPOSED NUMBER OF BEDROOMS = 6
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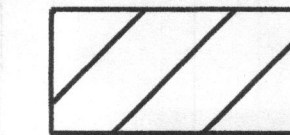


GENERAL NOTES

- CURRENT TITLE REFERENCE:
OWNER: GUELL & KHUDAY WARD
DEED REFERENCE: L. 16459, F. 262
DATE: SEPTEMBER 25, 2018
GRANTOR: WILLIAM DRUSCHEL
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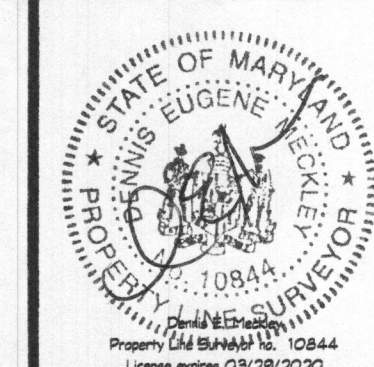
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Date	Revisions	Drawn By:	VP/LDA
12/6/2018	revised perc test numbers per county ops	Ida	Designed By: LDA
			Reviewed By:
			Date: 1/16/2019
			Scale: 1"=30'
			Job No: 2018190
			Sheet: 1 of 1

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

Matthew M. Roman 1/20/2019
HOWARD COUNTY HEALTH OFFICER

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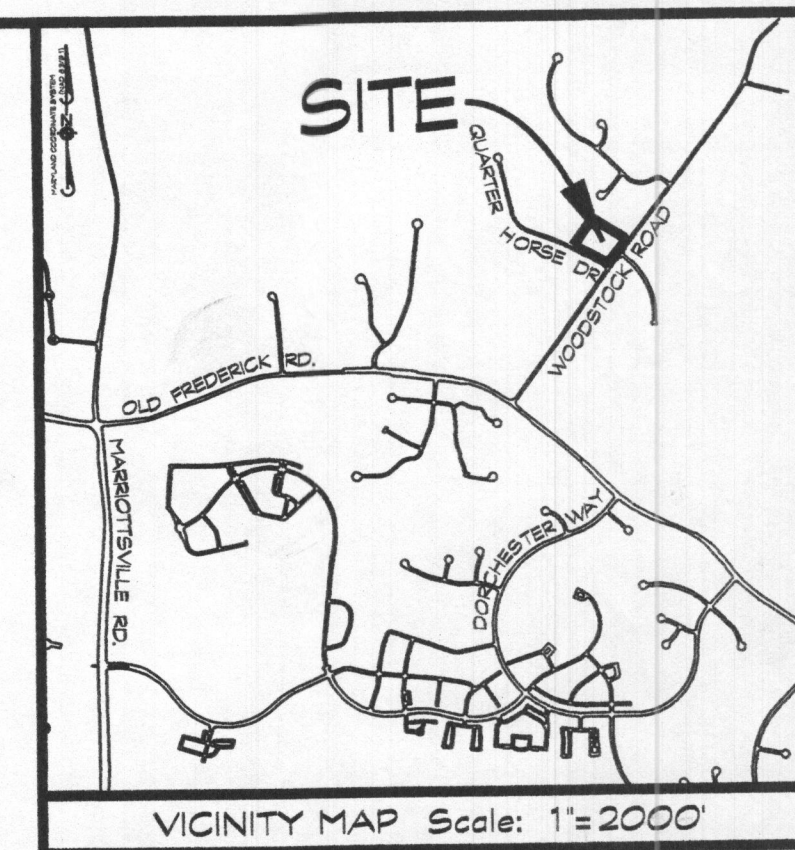
Dennis E. Meckley 12/10/18
DENNIS E. MECKLEY, PROPERTY LINE SURVEYOR NO. 10844

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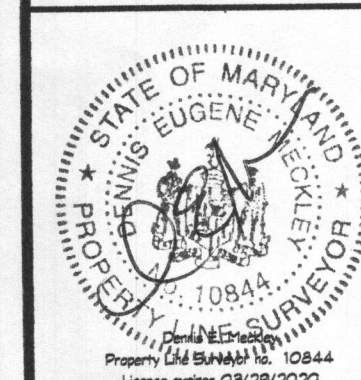
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For Maria Rodman 12/20/2018
HOWARD COUNTY HEALTH OFFICER

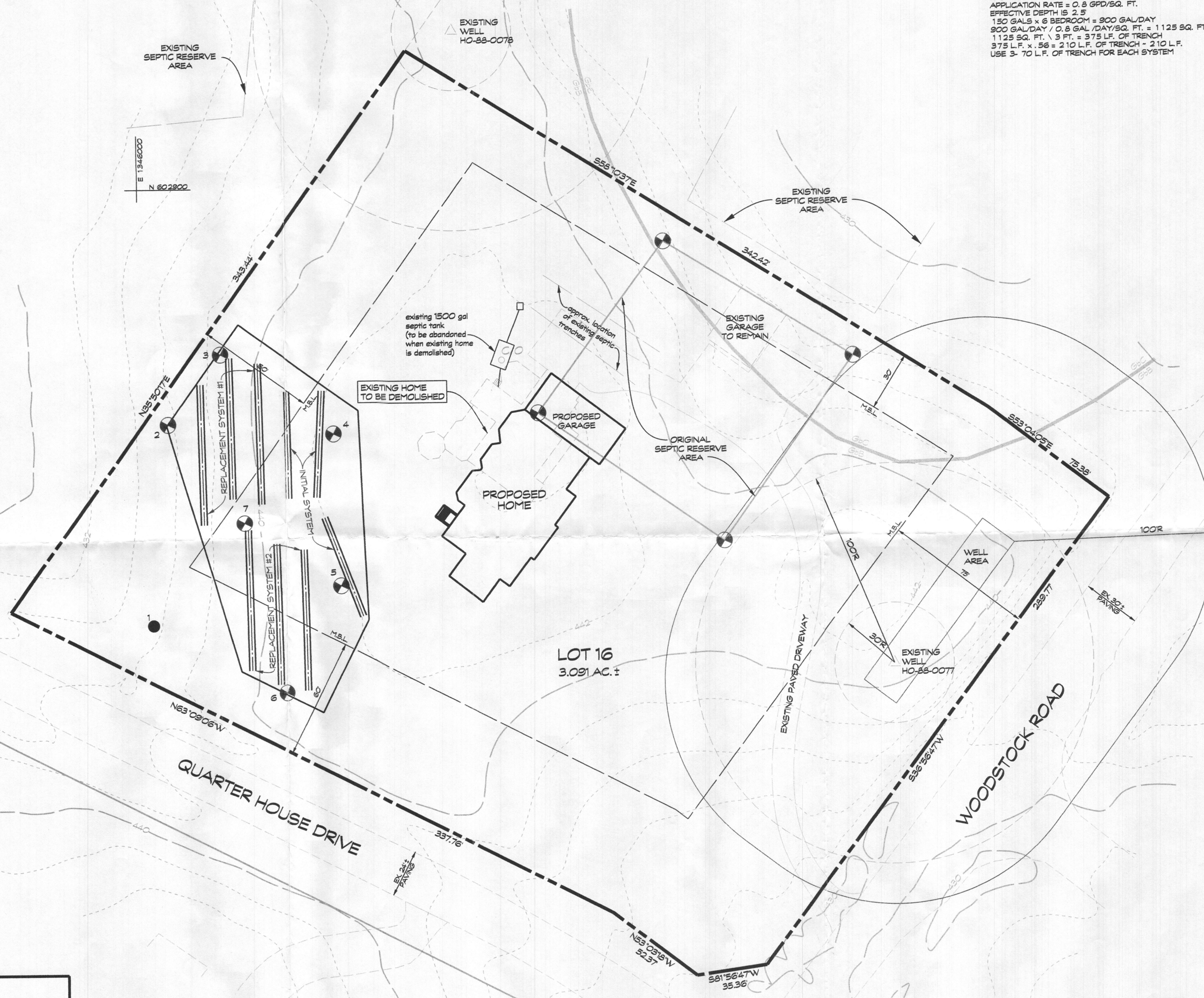
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		Reviewed By:	
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		Job No:	2018190
		Sheet:	1 of 1

LEGEND

- FAILED PERC TEST
- ⊙ PASSED PERC TEST
- △ Existing WELL LOCATION
- SOIL LINES
- ▨ DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA
- EXISTING TREELINE
- X—X—X EXISTING FENCE



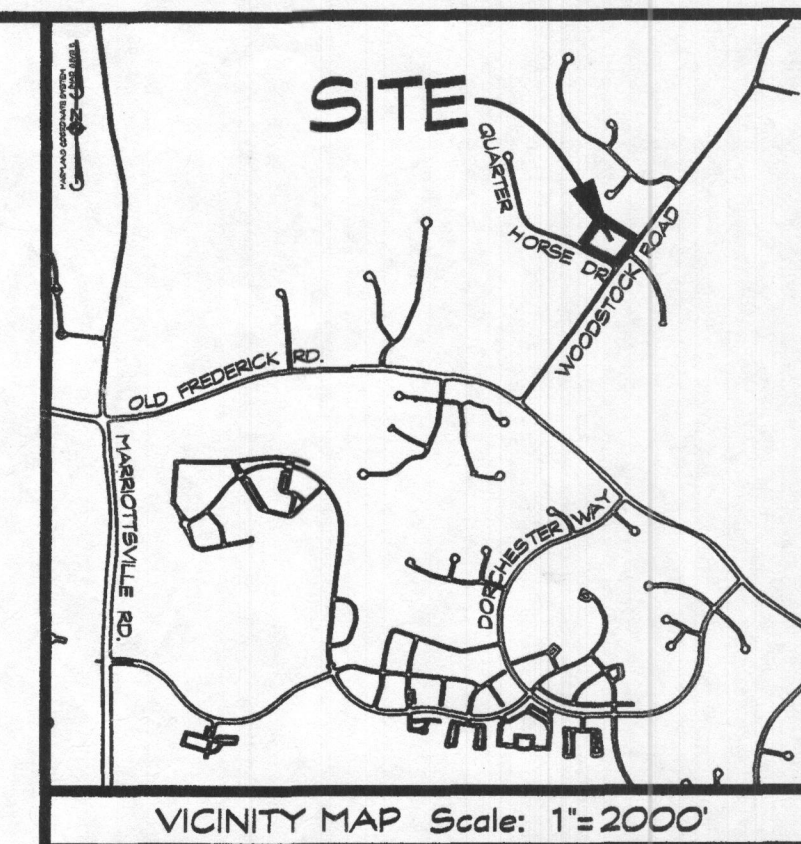
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MARYLAND COORDINATE SYSTEM
(NAD 83)

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900 GAL/DAY / 1.2 GAL / DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 3 FT. = 250 L.F. OF TRENCH
250 L.F. x .625 = 156.25 L.F. OF TRENCH - 157 L.F.
USE 3-53 L.F. OF TRENCH FOR EACH SYSTEM

REPLACEMENT SYSTEM 1 & 2:
PROPOSED NUMBER OF BEDROOMS = 6
APPLICATION RATE = 0.8 GPD/SQ. FT.
EFFECTIVE DEPTH IS 2.5
150 GALS x 6 BEDROOM = 900 GAL/DAY
900 GAL/DAY / 0.8 GAL / DAY/SQ. FT. = 1125 SQ. FT.
1125 SQ. FT. / 3 FT. = 375 L.F. OF TRENCH
375 L.F. x .56 = 210 L.F. OF TRENCH - 210 L.F.
USE 3-70 L.F. OF TRENCH FOR EACH SYSTEM

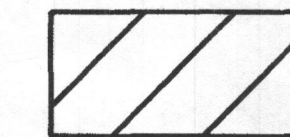


GENERAL NOTES

- CURRENT TITLE REFERENCE:
OWNER: GUELLE & KHUDAY WARD
DEED REFERENCE: L. 16459, F. 262
DATE: SEPTEMBER 25, 2018
GRANTOR: WILLIAM DRUSCHEL
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 200' SCALE TOPO MAPS AND VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY. TOPOGRAPHY OF THE SEWAGE DISPOSAL AREA WAS FIELD VERIFIED BY CLSI.
- EXISTING WELLS AND/OR SEWER EASEMENTS WITHIN 100' OF THE LOT LINES HAVE BEEN SHOWN. THERE ARE NO WELLS 200' DOWN GRADIENT OF THE SEPTIC EASEMENT AREA SHOWN.
- M.B.L. DENOTES MINIMUM BUILDING LINE
- ANY CHANGES TO THE PRIVATE SEWER EASEMENT AND/OR ALTERNATIVE WELL LOCATION SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THE ORIGINAL PERCOLATION TEST LOCATIONS WERE TAKEN FROM THE INFORMATION PROVIDED BY THE HEALTH DEPARTMENT.
- SHOULD STORMWATER MANAGEMENT BE REQUIRED, IT WILL BE PROVIDED BY A DRY WELL ON SITE.

DATA TABULATIONS

- ZONING DISTRICT: RC-DEO
- NUMBER OF BUILDING SITES: 1
- TOTAL AREA OF LOT: 3.09 ACRES



THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

PURPOSE NOTE:

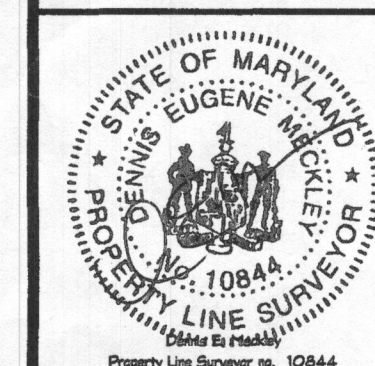
THE EXISTING SINGLE FAMILY HOME IS TO BE DEMOLISHED AND A NEW SINGLE FAMILY HOME CONSTRUCTED.

OWNER/DEVELOPER

GUELLE & KHUDAY JA WARD
1820 WOODSTOCK ROAD
WOODSTOCK, MD 21163

PERC CERTIFICATION PLAN 1820 WOODSTOCK ROAD PARKSIDE LOT 16

3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 10 • BLOCK: 23 • PARCEL: 36
RECORDED IN PLAT #9682



APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DENNIS E. MECKLEY, PROPERTY LINE SURVEYOR NO. 10844

Date	Revisions	Drawn By:
		Designed By:
		Reviewed By:
		Date:
		Scale: 1"=30'
		Job No: 2018190
		Sheet: 1 of 1

LEGEND

- FAILED PERC TEST
- ⊙ PASSED PERC TEST
- ⊙ PROPOSED PERC TEST
- ▲ EXISTING WELL LOCATION
- △ ALTERNATIVE WELL LOCATION

SOIL LINES

DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA

EXISTING TREELINE

EXISTING FENCE