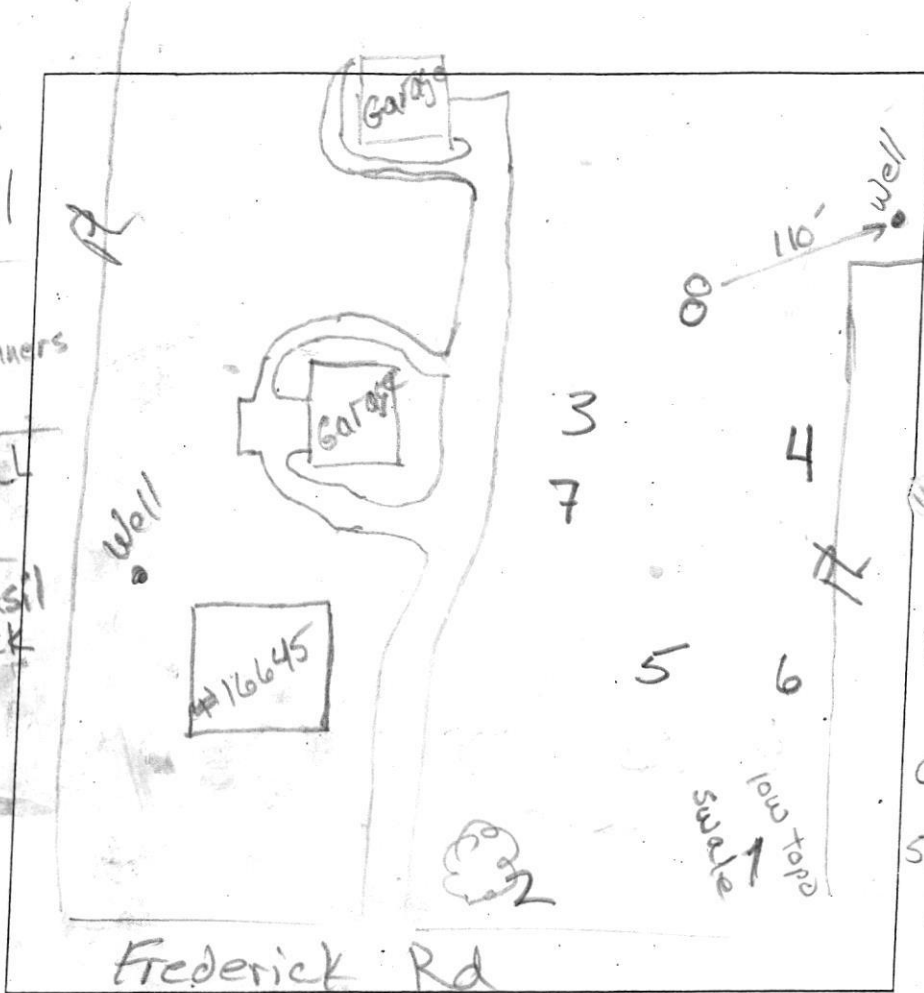


AP

6 #5
 0.8' dk brn sil
 1' vsbk
 1.6' #brn sil
 0-15% clanners
 2' vsbk, ss
 6' yel-red chl
 1' vsbk, ss
 11' yel-red vch sil
 40-50% rock



4
 0.7' brn sil
 3' vsbk
 1.4' brn sil, 2' vsbk
 22' red-brn sil
 1' vsbk, ss
 yel-red chl
 8' m ss
 red, yellow
 & red-yel
 12' ch sil, 8' m

1
 0.8' brn sil
 yel-red sil
 5.5' grey rock
 >> 20% (wedged)

2
 0.9' dk brn sil
 3' vsbk
 1.3' brn sil
 2' vsbk, ss
 3.5' brn chl
 1' vsbk, ss
 5' yel-red chl
 8' m, ss
 11' yel-red
 vsbk 40-50%
 rock

| DATE | TEST # | DEPTH | START | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--------|--------|-------|--------|------------------|--------------------------|---------------------|-------|
| 7/6/18 | 4 | 5.5' | 10:59 | 11:30 | (1/4" perc) | | F |
| 7/6/18 | 1 | 5.5' | Visual | | rock > 50% | | F |
| 7/6/18 | 2 | 5.2' | 11:23 | 12:08 | (1/4" perc) | | F |
| 7/6/18 | 5 | 6.8' | 11:41 | 12:41 | (3/4" perc) | | F |
| 7/6/18 | 6 | 11' | Visual | | (similar to 6, 45% rock) | | F |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

REMARKS _____
 SANITARIAN R. Bricker BACKHOE Fogle's OTHERS Dave
Suke & Dennis Matt Nichols
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

A/P

7

0.8' dk brn sil / 2 fsbk

red brn ch sil
1 fsbk, ss

1.9' yel-red vch sil
2 fsbk, ss, 35-40% rock

4.8' yel-red
vch sil, 40-50% rock
Ø m, ss

7

Rock > 50%

3

0.5' dk brn sil
3 v fsbk

brn vgr sil
Ø sg

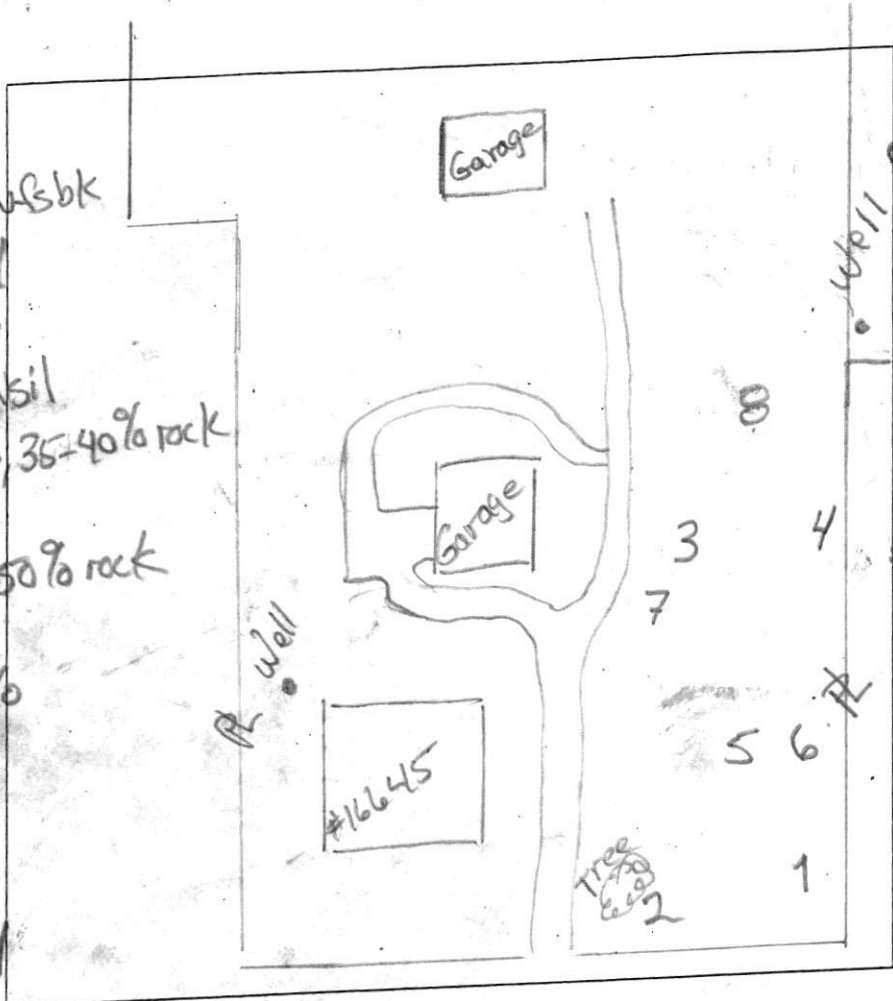
1.3' red-brn ch sil
2 fsbk, ss

1.9' yel-red ch sil
30-35% rock
2 fsbk, ss

3.8' yel-red vch
40-50% rock
1 m fsbk, ss

6' brn & yel-red
vch sil, Ø m, ss

9'



8

0.5' dk brn sil
2 v fsbk

brn sil
2 fsbk

1.3' red-brn
ch sil, 2 fsbk

2' yel-red
vch sil, 1 fsbk
35-45% rock

5.3' yel-red & brn
ch sil, Ø m

6.5' yel-red
& brn vch sil
> 50% rock

| DATE | TEST # | DEPTH | START | BREAK 1" DROP | STOP 2" DROP | TIME OF 2ND INCH | P/F/H |
|--------|--------|--------|-------|------------------|-----------------|---------------------|-------|
| 7/6/18 | 2A | 2.2' | 12:30 | 12:35 | 12:47 | 12 | P |
| 7/6/18 | 5A | 2.2' | 12:42 | 12:46 | 12:52 | 6 | P |
| 7/6/18 | 6A | 2.8' | 1:04 | 1:07 | 1:11 | 4 | P |
| 7/6/18 | 7 | 2.5' | 1:15 | 1:19 | 1:23 | 4 | P |
| 7/6/18 | 3 | 2.4' | 1:37 | 1:42 | 1:52 | 10 | P |
| 7/6/18 | 4A | 2.3'/2 | 1:56 | 2:14 | 2:39 | 15 | P |
| 7/6/18 | 8 | 2.3'/5 | 2:01 | — | 2:05 | repair | |
| 7/6/18 | 8 | 2.3'/5 | 2:06 | 2:10 | 2:17 | 7 | P |

REMARKS: Recommended percing more area, area is large enough for 3 syst

DAVE & JAKE SAID

SANITARIAN: R Bricker BACKHOE: Fagle's OTHERS: Dave

TEST HOLES USED IN SDA: Jiko, Dennis, Matt Nichols

TRENCH WIDTH: 2 or 3 INLET DEPTH: MAX. BOT DEPTH: 2.5' EFFECTIVE SW: 0.6 gpd / ft²



HOWARD COUNTY HEALTH DEPARTMENT

63032

AS

DATE

6/21/18

Received
From

PHONE #

Mary + Jennine Nichols 410 7076255

For

CASH

CHECK

NO.

4164

Park Test - 16675 Frederick Rd

Dollars

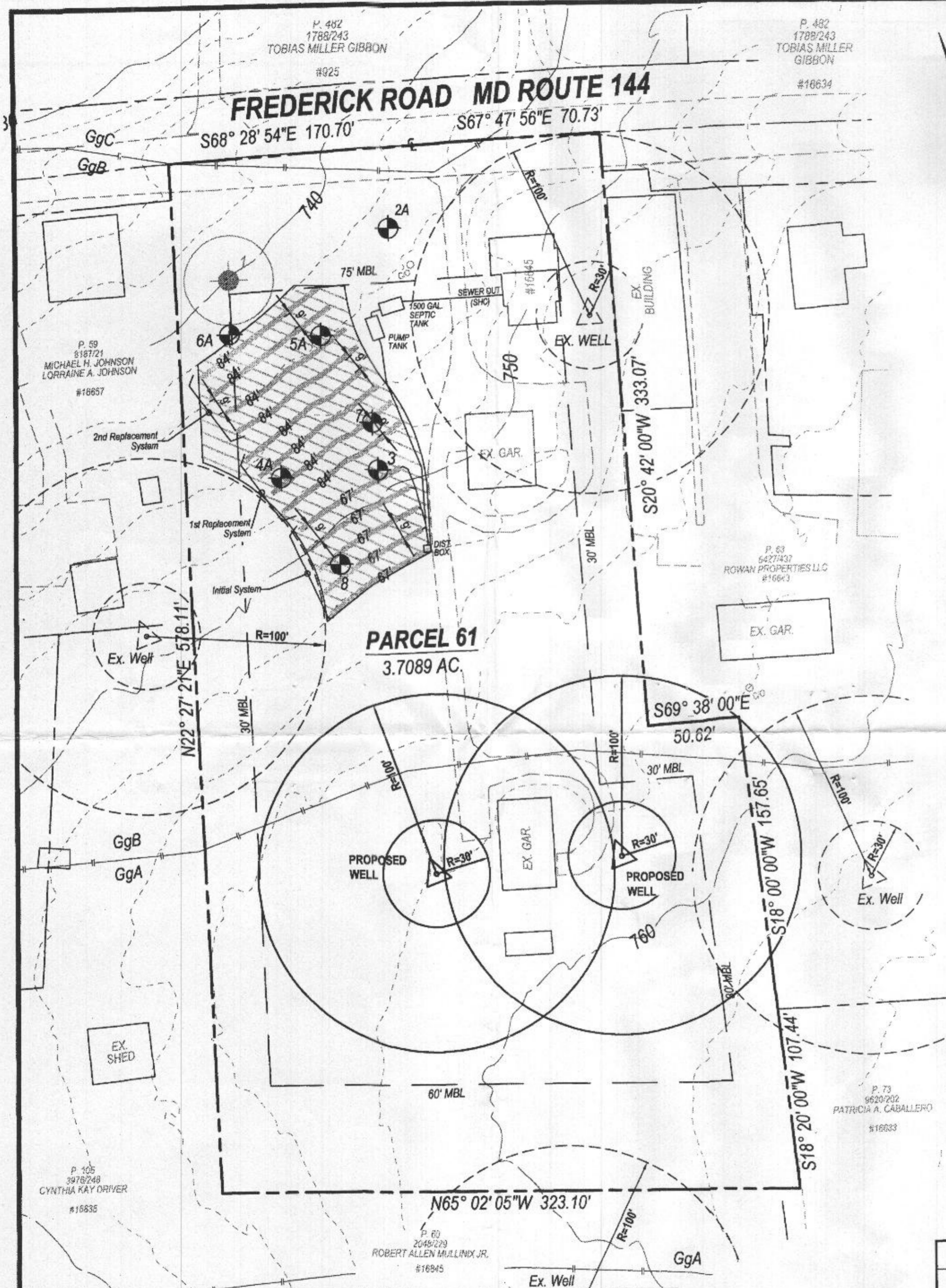
\$

506.00

Five hundred & 6/100ths

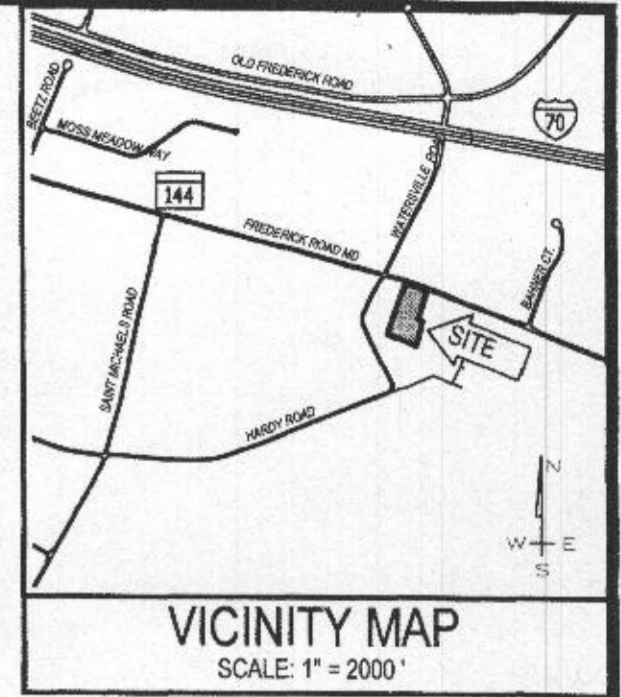
Received By

Shirley Beatty



| NO. | DATE | BY | REVISIONS |
|-----|---------|-----|-------------------------------------|
| 1 | 7/19/19 | DKK | ADDED PERC INFO |
| 2 | 7/24/18 | BD | REVISED PER HEALTH DEPT COMMENTS |
| 3 | 8-3-18 | BD | REVISED PER HEALTH DEPT COMMENTS |
| 4 | 6-19-19 | MDM | REVISED (PER REVISED WELL LOCATION) |
| 5 | 7-2-19 | MDM | REVISED PER HEALTH DEPT COMMENTS |

| NO. | DATE | BY | REVISIONS |
|-----|---------|-----|-------------------------------------|
| 1 | 7/19/19 | DKK | ADDED PERC INFO |
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| 4 | 6-19-19 | MDM | REVISED (PER REVISED WELL LOCATION) |
| 5 | 7-2-19 | MDM | REVISED PER HEALTH DEPT COMMENTS |



- GENERAL NOTES**
- Current Title Reference
Owner - Matthew J. Nichols and Jeanne D. Nichols
Deed reference - Liber 18180, Folio 421
Date - May 7, 2018
Grantor - Sara Jane Mullinix (Deceased), Robert Allen Mullinix Jr. P.R.
 - The topography shown hereon is based on Howard County aerial topography (Contour interval - 2'). The depicted topography reflects field matched information.
 - All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and / or septic systems have been shown.
 - The septic system installation plan (OSDS Plan) for septic system upgrade must be approved prior to Health Department approval of building permit proposal B18 001628.
 - Any changes to a private sewage easement shall require a revised Percolation Certification Plan.
 - This area shown hereon designates a private sewage area as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage area. Recordation of a revised sewage area shall not be necessary.
 - Total area of Sewerage Disposal Area = 14,160 sq.ft.

4 BEDROOM DESIGN
 Design flow - 150 Gal./Br.
 4br. x 150 Gal. = 600 Gal. = Design Flow
 Application Rate of 0.6
 DF ÷ AR =
 600 ÷ 0.6 = 1,000 Sq. Ft. of Drain Field

Sidewall Reduction Credit
 None

Length of Trench
 DF Sq. Ft. = 1,000 ÷ 3 =
 333 Ft. Length of Trench
 (Each System)
 All Trenches are 3' Wide - 9' Between Trenches
 Requires an: Initial System : (5) Trenches - 67' Ft.
 Replacement #1 : (4) Trenches - 84' Ft.
 Replacement #2 : (4) Trenches - 84' Ft.

PURPOSE NOTE:
 THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO ESTABLISH A SEPTIC RESERVE AREA TO ACCOMMODATE A 4 BEDROOM HOUSE.

| SYMBOL | HYDRC | HYDROLOGIC GROUP | ALTERNATE GROUP | NAME | K VALUE |
|--------|-------|------------------|-----------------|-------------------------------------|---------|
| GgA | B | B | | GLENELD LOAM, 6 TO 3 PERCENT SLOPES | 0.2 |
| GgB | B | B | | GLENELD LOAM, 3 TO 6 PERCENT SLOPES | 0.2 |

PERCOLATION CERTIFICATION PLAN
16645 FREDERICK ROAD
 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP - 7 GRID - 3 PARCEL - 61

Signed
7/19/19

| DATE | REVISIONS | BY |
|---------|-------------------------------------|-----|
| 7-12-18 | ADDED PERC INFO | DKK |
| 7-24-18 | REVISED PER HEALTH DEPT COMMENTS | BD |
| 8-3-18 | REVISED PER HEALTH DEPT COMMENTS | BD |
| 6-19-19 | REVISED (PER REVISED WELL LOCATION) | MDM |
| 7-2-19 | REVISED PER HEALTH DEPT COMMENTS | MDM |

Surveyed By
BPR
 Computed By
BPR
 Drawn By
MDM / BD
 Checked By
RLB
 Drawing No.
18-056-000



BPR INC
SURVEYORS - LAND PLANNERS
 150 Airport Drive
 Suite 4
 Westminster, Maryland 21157
 Phone: (410)-857-9030
 or (410)-876-0333
 Fax: (410)-876-1532
 www.bprsurveying.com

Date: June 19, 2018 Scale: 1" = 50' Sheet 1 of 1
 BP # 18-001628

- LEGEND**
- Denotes Slope >25%
 - Denotes sewage disposal areas
 - Denotes Proposed Well
 - Denotes Existing Well
 - Denotes Percolation Test Passed
 - Denotes Percolation Test Failed

OWNER / DEVELOPER
 MATTHEW J. NICHOLS
 JEANNE D. NICHOLS
 16645 FREDERICK RD.
 MOUNT AIRY, MD 21771-3311

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

Signature: Maureen Rossman
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 7/19/2019

I 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.

BY: *Signature: Stephen C. Barkley*
 DATE: 7/19/2019