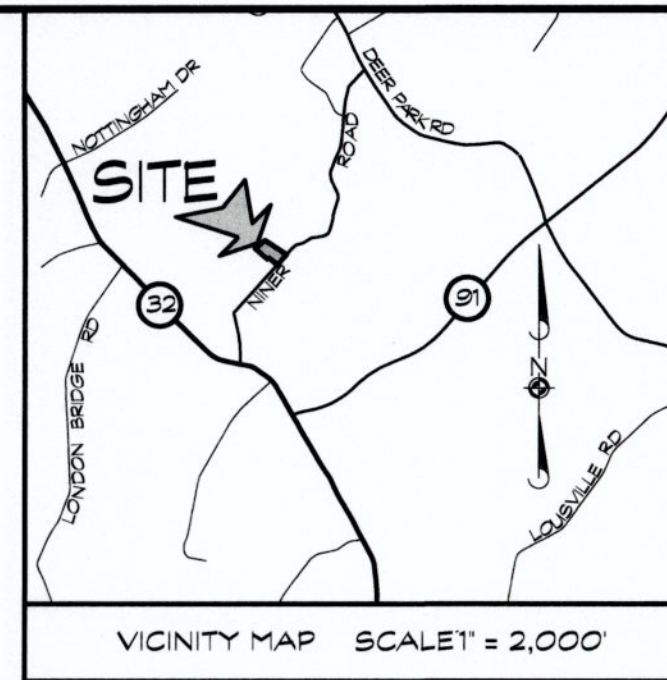


**LEGEND**

- SOIL LINE
- 100 YR. FEMA FLOODPLAIN
- EXISTING STREAM
- APPROVED PERC TEST
- PROPOSED WELL
- EXISTING WELL
- PROPOSED SAND MOUND
- PROPOSED HOUSE



**GENERAL NOTES**

- CURRENT TITLE REFERENCE OWNERS: DONALD G. & MARIE P. HAGA DEED REFERENCE: LIBER 6447 FOLIO 182 DATE: JANUARY 18, 2011 GRANTORS: FAYE RUTH LERMAN
- THE OUTLINE SHOWN HEREON IS BASED ON FIELD RUN BOUNDARY SURVEY BY CLSI DATED OCT 2011
- THE DIGITAL CONTOUR DATA WAS DEVELOPED USING CARROLL COUNTY LIDAR PRODUCTS AND MAY NOT BE A SUITABLE SUBSTITUTE FOR A FIELD RUN SURVEY. CARROLL COUNTY DOES NOT WARRANT ITS ACCURACY FOR ANY PURPOSES.
- THE NEAREST POTABLE WATER SUPPLY IS THE CITY OF WESTMINSTER. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY UNLESS OTHERWISE NOTED HEREON.
- IF GRAVITY FLOW TO SEWAGE DISPOSAL AREAS CANNOT BE ENSURED, A PUMPED SEWAGE DISPOSAL SYSTEM WILL BE REQUIRED.
- MBL = MINIMUM BUILDING LINE

**NOTE:**

A PERCOLATION TEST IS ONLY ONE OF THE CRITERIA USED IN CONSIDERING A LOT FOR INSTALLATION OF A SEPTIC SYSTEM. ADDITIONAL TESTING CAN BE REQUIRED AND MAY BE SUBJECT TO SCHEDULING DURING THE WET WEATHER PERIOD. THE ENTIRE LOT IS EVALUATED WHEN APPLICATION FOR A SEPTIC PERMIT IS MADE. ADJOINING PROPERTY HISTORY, PERCOLATION TEST METHODOLOGY, ADJOINING WELLS AND SEPTIC SYSTEMS, PROPOSED NUMBER OF BEDROOMS, HISTORY OF FAILING SEPTIC SYSTEMS AND WELLS, DESIGN, SOIL AND GEOLOGICAL CONDITIONS, AND TOPOGRAPHY IN THE IMMEDIATE AREA ARE THEN USED TO DETERMINE IF THE LOT IS SUITABLE FOR THE UNDERGROUND DISPOSAL OF SEWAGE.

**NOTE: EXISTING LOT OF RECORD**

FOR CONSTRUCTION OF A DWELLING (OR OTHER FACILITIES), EXCEEDING A THREE BEDROOM HOUSE SIZE (450 GPD) IT MUST BE DEMONSTRATED THAT THERE IS ADEQUATE AREA FOR AN INITIAL SEPTIC SYSTEM AND ONE REPLACEMENT SEPTIC SYSTEMS IN ACCORDANCE WITH COMAR 26.04.02.04F (EFFECTIVE 11/18/85)

**DATA TABULATIONS**

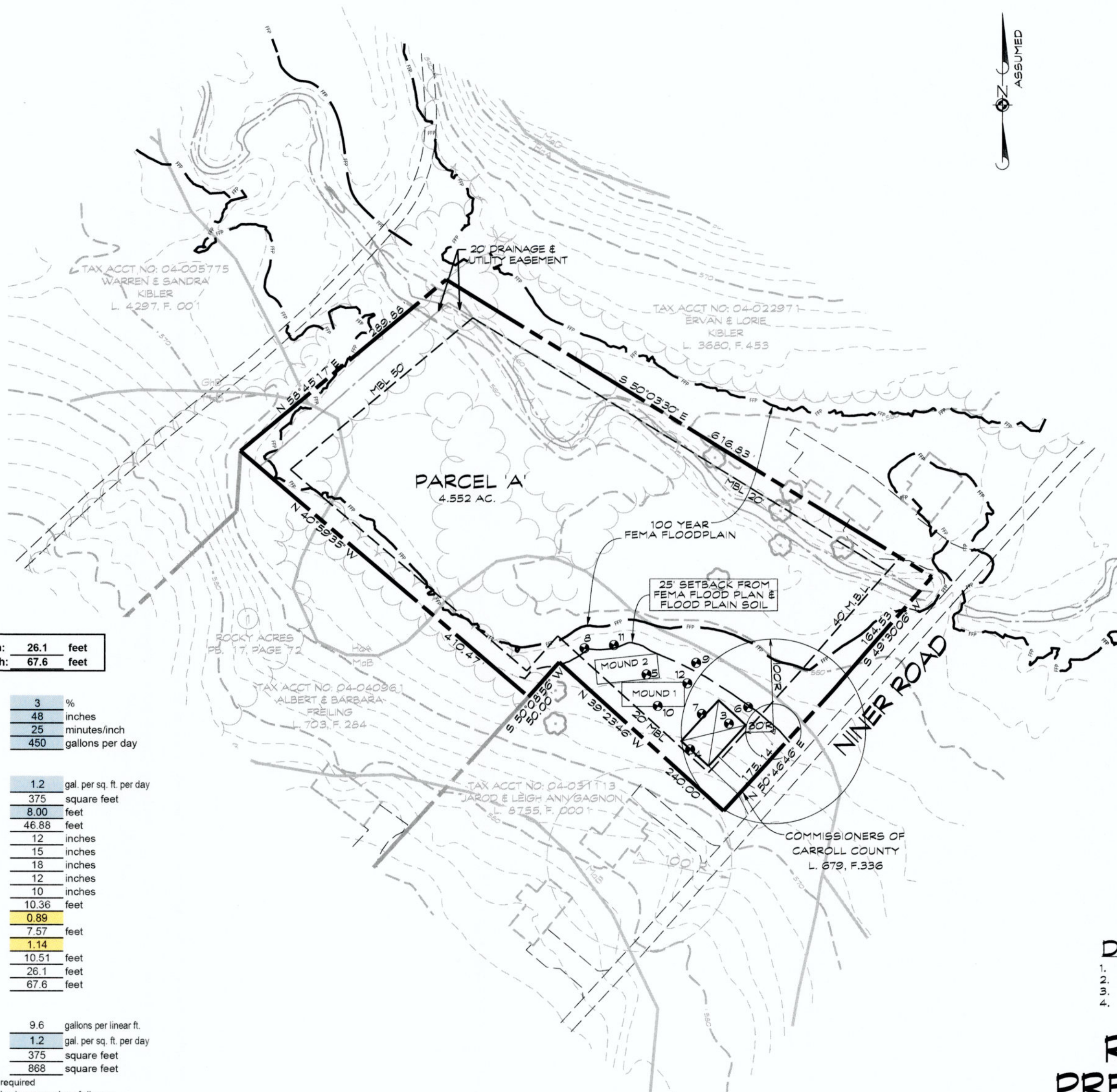
- ZONING DISTRICT: AGRICULTURAL
- NUMBER OF BUILDING SITES: 1 SINGLE FAMILY
- AREA OF LOTS: 4.552 AC.
- TOTAL AREA OF SUBDIVISION: 4.552 AC.

**REVISED FINAL PRELIMINARY PLAN FOR PARCEL 'A' - ROCKY ACRES**

PREVIOUSLY RECORDED PB 17 PG 72  
TAX MAP 63, BLOCK 6, PARCEL 428  
4th ELECTION DISTRICT, CARROLL COUNTY, MARYLAND

**OWNER/DEVELOPER**

DONALD G. HAGA  
MARIE P. HAGA  
3719 NINER RD.  
FINKSBURG, MD 21048  
443-340-8894



**SAND MOUND CALCULATIONS**

Total mound width:	26.1 feet
Total mound length:	67.6 feet

**SITE SPECIFIC INFORMATION**

Slope Percent:	3 %
Restrictive Depth to rock or water:	48 inches
Percolation Rate:	25 minutes/inch
Design Flow:	450 gallons per day

**BED/MOUND CALCULATIONS**

Design infiltration rate for sand:	1.2 gal. per sq. ft. per day
Absorption bed: Design flow / Design infiltration rate =	375 square feet
Bed width (15 feet or less):	8.00 feet
Bed length: Absorption bed (sq.ft)/Bed width (ft) = (21 to 101 feet)	46.88 feet
D- Upslope sand fill depth: 48 in - Z =	12 inches
E- Downslope sand fill depth: 12 A x % slope + D in. =	15 inches
H- Cap + topsoil at bed center =	18 inches
G- Cap + topsoil at bed edge =	12 inches
F- Total Bed Depth:	10 inches
K- Sideslope setback: (((D + E) / 2) + 28 in.) / 12 x 3 =	10.36 feet
Upslope correction factor (from chart):	0.89
J- Upslope setback: ((22 in + D) / 12) x 3 x Upslope corr. Factor =	7.57 feet
Downslope correction factor (from chart):	1.14
I- Downslope setback: ((22 in + E) / 12) x 3 x Downslope corr. Factor =	10.51 feet
W- Preliminary Width of Mound: A + J + I =	26.1 feet
L- Total Length of Mound: B + 2K =	67.6 feet

**LOADING RATE AND BASAL AREA CALCULATIONS**

Linear loading rate: Design flow / Bed Length =	9.6 gallons per linear ft.
Soil infiltration rate based on percolation rate:	1.2 gal. per sq. ft. per day
Basal area required: Design flow / infiltration =	375 square feet
Basal area provided with preliminary width: Level Site = L x W; Slope Site (A+I)xB	868 square feet
Adequate basal area is provided - no modifications to preliminary dimensions required	
In order to provide adequate basal area, the downslope setback must be increased as follows:	
Modified downslope setback: (Basal Area Required / A) - B =	N/A feet
Therefore, the overall mound with changes as follows:	
New mound width = A + J + modified downslope setback =	N/A feet

**PERCOLATION TEST**

**SUBDIVISION/SITE: Rocky Acres - Parcel A**

Test #	Test Type	Percolation Rate	Percolation Rate	Comments	Date	Test #	San.
3	OH			Water at 8.0 ft. / Suitable soil to 4.0 ft.	07/21/11	3	376
3	MTF	>30 min at 4 ft			09/04/20	3	388
4	OH			Suitable soil to 4.0 ft.	07/21/11	4	376
5	SM	9 min. at 2 ft.		Suitable soil to 4.0 ft.	07/21/11	5	376
6	SM	8 min. at 1.6 ft.		Suitable soil to 4.0 ft.	07/21/11	6	376
7	SM	40 min. at 2 ft.		Suitable soil to 4.0 ft.	07/21/11	7	376
8	OH			Redox at 4.2 feet / Suitable soil to 4.2 ft.	09/04/20	8	388
9	MTF	>30 min at 4 ft		Water at 8 feet	09/04/20	9	388
10	MTF	>30 min at 4 ft		Water at 10 feet	09/04/20	10	388
11	OH			Redox at 5 feet / suitable soil to 5 ft.	09/04/20	11	388
11	AGM	7 min at 1.5 ft			03/09/21	11	388
12	AGM	59 min at 1.8 ft		Suitable soil to 4.0 ft.	03/09/21	12	388

THERE ARE NO WELLS OR SEPTIC AREAS WITHIN 100 FEET OF THE PROPERTY UNLESS OTHERWISE SHOWN HEREON.

BY *Javier Morales Roldan* DATE 8/5/21  
JAVIER MORALES ROLDAN,  
PROFESSIONAL LAND SURVEYOR NO. 21885  
MY LICENSE EXPIRES AUGUST 9, 2023

PERC TESTS SHOWN HEREON HAVE BEEN FIELD LOCATED BY  
CARROLL LAND SERVICES, INC.

BY *Javier Morales Roldan* DATE 8/5/21  
JAVIER MORALES ROLDAN,  
PROFESSIONAL LAND SURVEYOR NO. 21885  
MY LICENSE EXPIRES AUGUST 9, 2023 MATT SHIPLEY

THE SAID PERC TESTS WERE OBSERVED BY  
OF THE CARROLL COUNTY HEALTH DEPARTMENT AND THE  
RESULTS OF THE SAME ARE SHOWN HEREON.

Date	Revision	By

Scale: 1" = 100'

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

Surveyed By: CLSI  
Computed By:

Drawn By: BM  
Checked By:

DATE: AUG. 2021  
DRAWING NO.: 2011022  
COUNTY FILE NO.:

CAD Drawing File Name: