

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 546281

AGENCY REVIEW: _____

DATE 3-18-14

DO NOT WRITE ABOVE THIS LINE

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

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 3 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) MOHAMMED I & FARHANA Y. MUFTI

DAYTIME PHONE 443-604-3127 CELL 443-604-3127 FAX _____

MAILING ADDRESS 12440 FREDERICK ROAD WEST FRIENDSHIP, MD 21794
STREET CITY/TOWN STATE ZIP

APPLICANT MOHAMMED I. MUFTI

DAYTIME PHONE 443-604-3127 CELL 443-604-3127 FAX _____

MAILING ADDRESS 12440 FREDERICK ROAD WEST FRIENDSHIP, MD 21794
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT
OWNER

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME 12440 FREDERICK ROAD LOT NO. _____

PROPERTY ADDRESS 12440 FREDERICK ROAD WEST FRIENDSHIP, MD
STREET TOWN/POST OFFICE

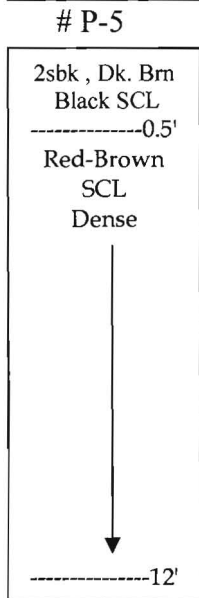
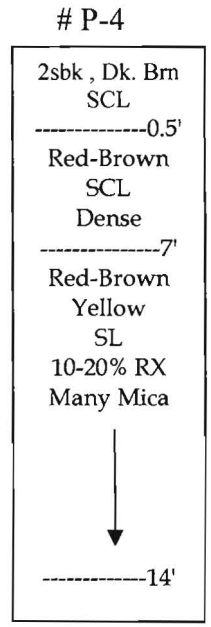
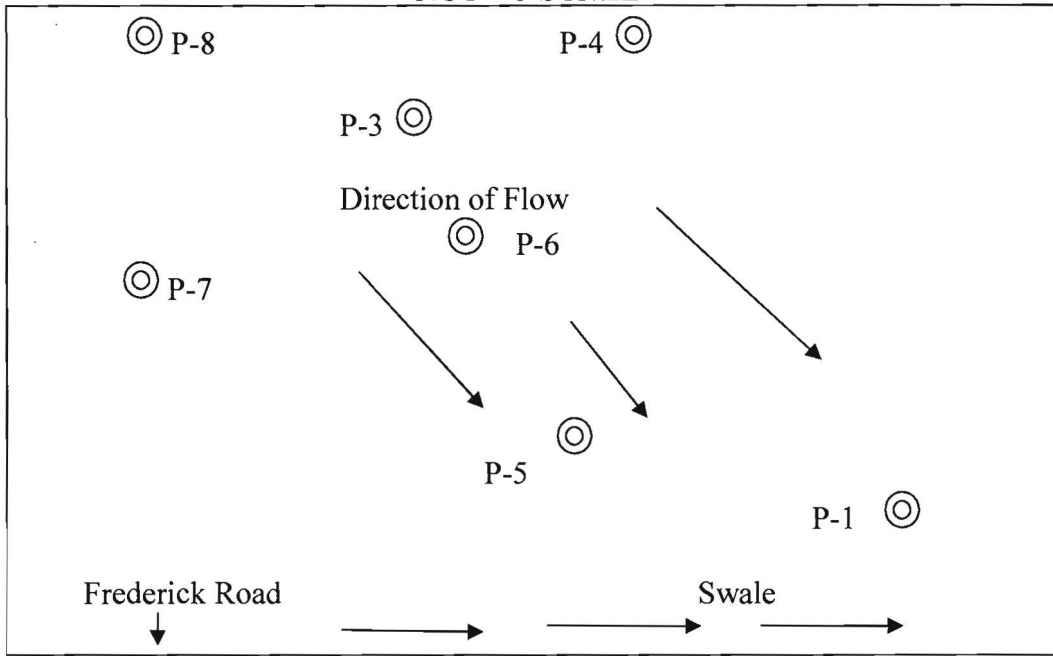
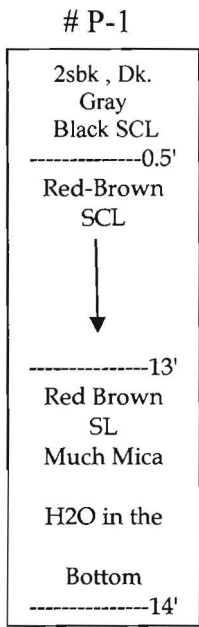
TAX MAP PAGE(S) 0015 GRID 0012 PARCEL(S) 0148 PROPOSED LOT SIZE 1 ACRE

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

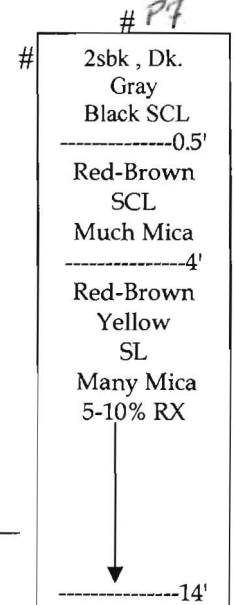
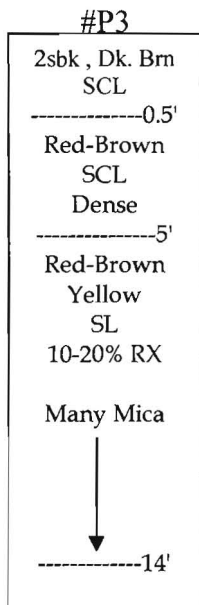
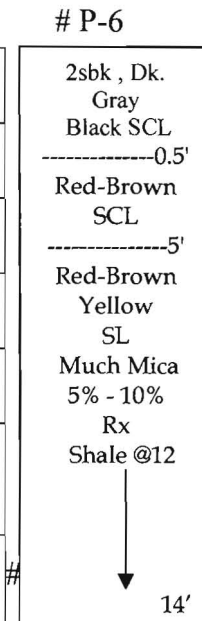
TEST RESULTS WILL BE MAILED TO APPLICANT. _____
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
1718 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

NOT TO SCALE



Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 nd Inch	P/F/H
5-8-14	P-1	14	Clay	@13'			Fail
5-8-14	P-5	14	Clay	@12'			Fail
5-8-14	P-3	6/ 14	10:52	11:14	11:30	16 min.	Pass
5-8-14	P-4	7.5/ 14	11:13	11:21	11:45	24 min.	Pass
5-8-14	P-6	6/ 14	11:50	11:53	11:58	5 min.	Pass
5-8-14	P-7	4.5/ 14	12:18	12:25	12:33	8 min.	Pass



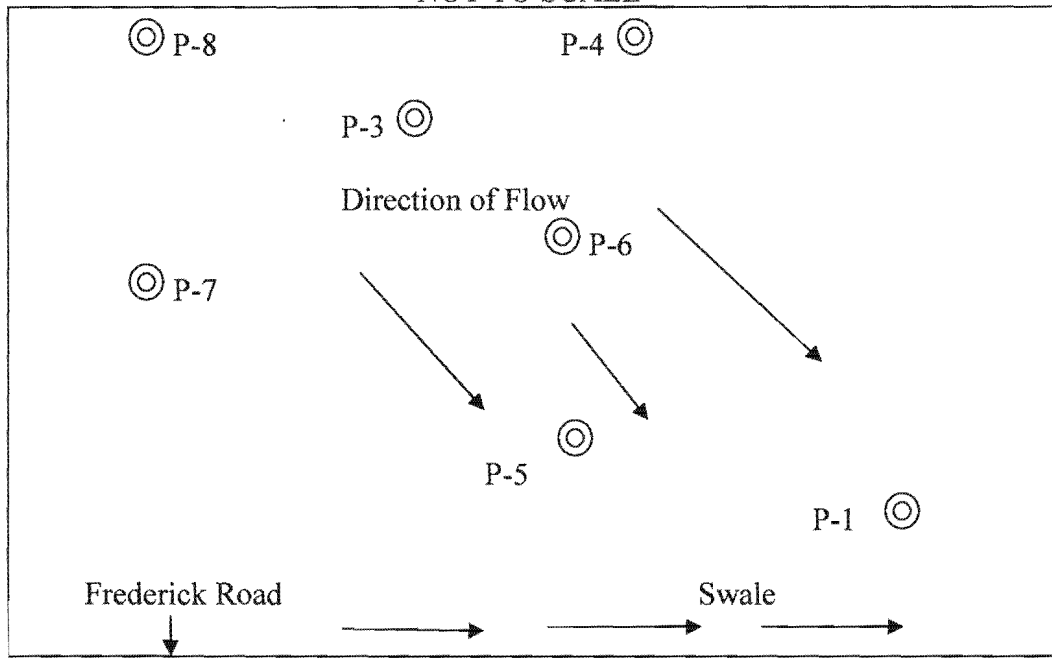
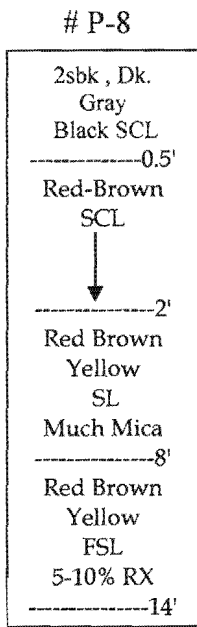
Remarks: Undeveloped Property. Perc holes must be surveyed on Percolation Certification Plan.

Sanitarian D. Bernard Backhoe Others Tony with FCC

Test Holes Used in 5 in SDA Avg. Perc Time 11 min. SQ.FT/BR

Trench Width 3' Inlet Depth 4' Max Bot. Depth 6' Effective S/W 2

NOT TO SCALE



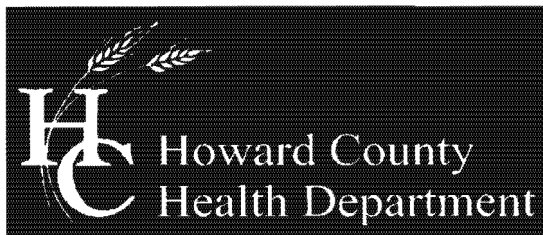
Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 nd Inch	P/F/H
5-8-14	P-8	4/ 14	12:56	12:58	12:01	3 min.	Pass

Remarks: Undeveloped Property. Perc holes must be surveyed on Percolation Certification Plan.

Sanitarian D.Bernard Backhoe Others Tony with FCC

Test Holes Used in 5 in SDA Avg. Perc Time 11 min. SQ.FT/BR

Trench Width 3' Inlet Depth 4' Max Bot.Depth 6' Effective S/W 2



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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., Acting Health Officer

Date: May 15, 2014

To: Mr. Mohammed and Farhana Mufti
12440 Frederick Road
West Friendship, Maryland 21796
Via E-mail: brmufti@gmail.com

RE: **Percolation Testing Report
12440 Frederick Road**

Mr. Mohammed,

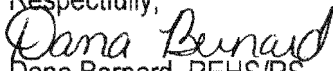
Percolation testing was conducted on the referenced property on May 8, 2014. The purpose for conducting these percolation tests was for an anticipated establishment of new sewage disposal area. The new disposal area will be used to redesign septic area to accommodate an addition.

A total of seven (7) test holes were evaluated and five (5) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth may be confirmed at the time of installation. There was evidence of failure on the existing lot and the current absorption system is not adequately sized to accommodate your proposed addition. Additions where the existing system is not adequate and needs to be upgraded will require the "Best Available Technology". The existing tank and trenches will have to be abandoned by a licensed septic installer. 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 have your engineer/architect submit a Percolation Certification Plan to confirm the design of the septic reserve area. 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.

Respectfully,


Dana Bernard, REHS/RS
Environmental Sanitarian II
Well and Septic Program

Enclosures (3)

Cc: File

If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Sincerely,

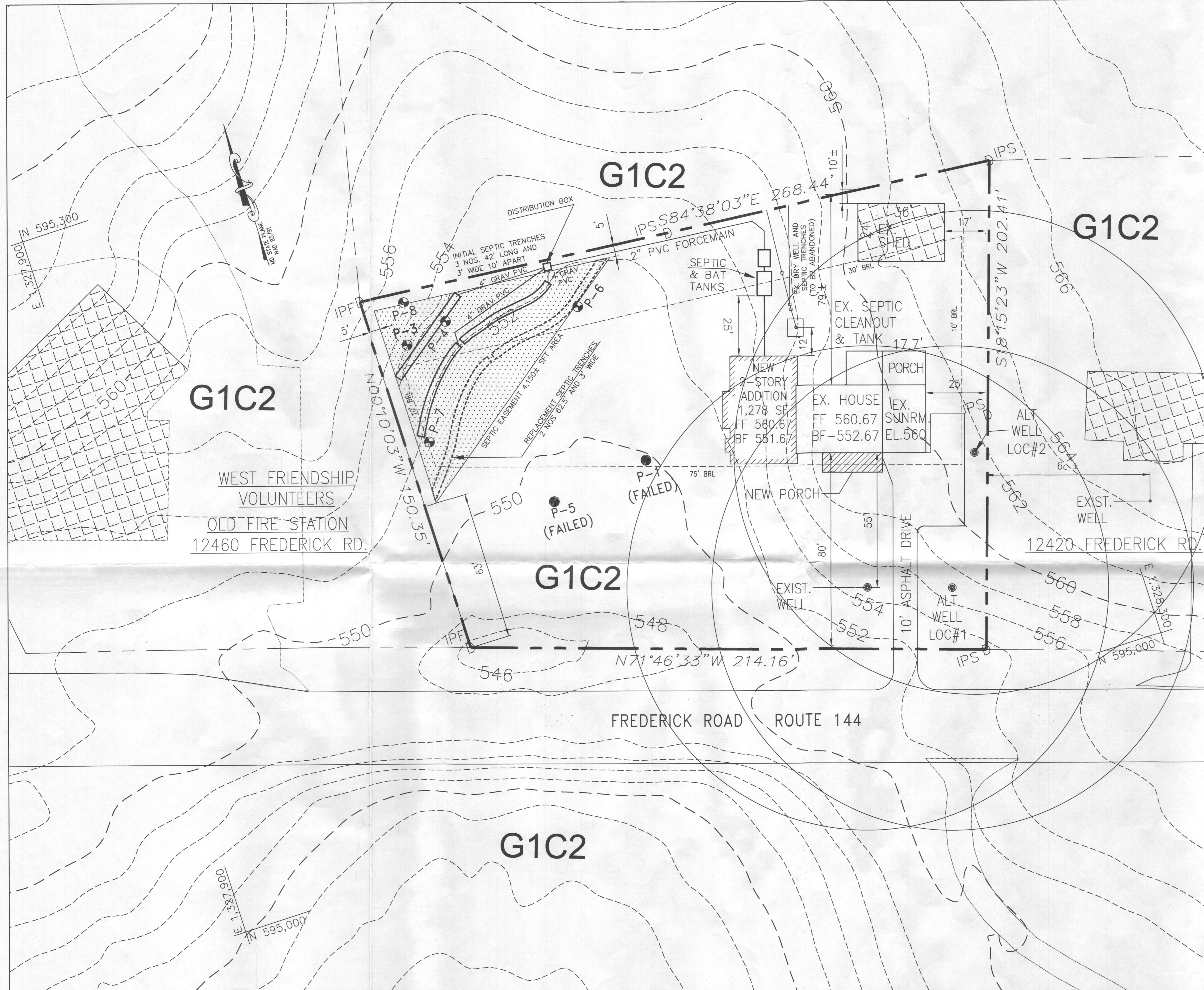
A handwritten signature in cursive script that reads "Dana Bernard". The signature is written in black ink and is positioned above the printed name.

Dana Bernard, REHS/RS

Environmental Specialist II

Phone (410) 313-2775

E-mail: DBernard@howardcountymd.gov



LEGEND

- 548--- EXIST GRADE
- 572--- PROPOSED GRADE
- ELECTRIC POLE
- TRaverse POINT
- EXIST TREE
- PASSED TEST HOLES (MAY 2014)
- SEPTIC AREA (SEE NOTE#8)
- Failed test hole (May 2014)

VICINITY MAP
SCALE: 1" = 2000'

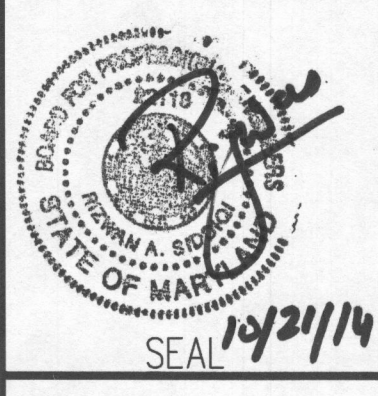
- GENERAL NOTES:**
- SUBJECT PROPERTY IS CURRENTLY ZONED
 - TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS INFORMATION AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
 - BOUNDARY SHOWN IS BASED ON BOUNDARY SURVEY PERFORMED BY POINT-TO-POINT LAND SURVEYORS IN JUNE 2014.
 - THE PURPOSE OF THIS PERC CERT IS TO ESTABLISH A SEPTIC DISPOSAL AREA TO ACCOMMODATE A PROPOSED ADDITION. THE AREA PROVIDED IS LARGE ENOUGH TO ACCOMMODATE AN INITIAL SYSTEM AND ONE REPAIR SYSTEM FOR A FOUR (4) BEDROOM HOUSE. THE HEALTH DEPARTMENT MAY NOT APPROVE ANY BUILDING PERMIT FOR IMPROVEMENTS TO THE HOUSE PROPOSING MORE THAN FOUR (4) BEDROOMS.
 - SUBJECT PROPERTY IS BEING SERVED BY WELL FILED LOCATED AND AS SHOWN ON PLAN.
 - CURRENT HOUSE IS BEING SERVED BY SEPTIC.
 - NEW PERC TESTS WERE PERFORMED AND OBSERVED BY COUNTY INSPECTOR IN MAY 2014. FIVE PASSING TESTS INCLUDE P-3, P-4, P-6, P-7 AND P-8 AS SHOWN ON SITE PLAN. TESTS P1 & P5 FAILED.
 - THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWERAGE DISPOSAL 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 EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 - ANY CHANGES TO THE PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE LOT BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEM HAVE BEEN SHOWN.
 - THE EXISTING SEPTIC SYSTEM ON THIS LOT HAS BEEN FIELD LOCATED BY THE ENGINEER AND IS ACCURATELY SHOWN AND MUST BE ABANDONED PRIOR TO INSTALLATION OF NEW SEPTIC SYSTEM.
 - BEST AVAILABLE TECHNOLOGY (BAT) FOR SEPTIC TREATMENT WILL BE PROVIDED BY TWO-COMPARTMENT SEPTI-TECH M400 WITH 1500 GALLON SEPTIC TANK SYSTEM AS SHOWN ON THE PLAN.

SOILS LEGEND

MAP SYMB	SOIL GROUP	SOIL TYPE
G1C2	B	GLENELG LOAM, 3-8 % SLOPES

FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0

OWNER/DEVELOPER
MUHAMMAD IJAZ MUFTI
12440 FREDERICK ROAD
WEST FRIENDSHIP, MD 21794
PHONE: 443-604-3127



Mufti & Associates, Inc.
6413 Windsor Mill Road
Baltimore, Md 21207
Phone: 443-604-3127

Proposed Addition
Mufti's Residence
12440 Frederick Road
West Friendship, MD 21794

Revisions:	Date:

Sheet Title:



Date: 10/21/14
Scale: 1" = 20'

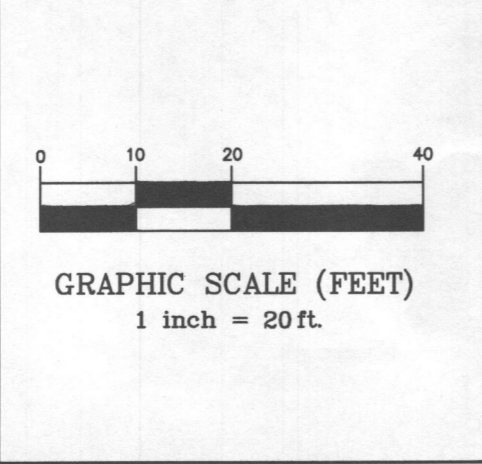
P-1

APPROVED FOR PRIVATE WATER & SEWERAGE SYSTEMS

Dr. Wilson for Maureen Rossman
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE: 11/17/2014

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

R. Sidiqi
PLAN PREPARER



SEWAGE DISPOSAL SYSTEM SPEC WORKSHEET

ADDRESS: 123440 FREDERICK ROAD
SUBDIVISION: N/A LOT: N/A

INITIAL SYSTEM: APPLICATION RATE: 0.8
EFFECTIVE AREA BEGINNING DEPTH: 5 FT
BOTTOM MAXIMUM DEPTH: 8 FT

DESIGN FLOW = 150 GALLONS PER DAY PER BEDROOM
DESIGN FLOW FOR 4 BEDROOMS = 150 X 4 = 600 GALLONS PER DAY
APPLICATION RATE (FOR 6-15 MIN/INCH PERC) = 0.8
SQUARE FEET OF TRENCH REQUIRED = 600 GPD ÷ 0.8 (APPLICATION RATE) = 750 SFT

LENGTH OF TRENCH (WIDTH ADJUSTMENT) = 750 ÷ 3 FOOT WIDE TRENCH = 250 FEET
LENGTH OF TRENCH (DEPTH ADJUSTMENT USE 36") = 250 X 0.5 (% FROM TABLE) = 125 FEET

SINCE MAXIMUM TRENCH LENGTH IS 125 FEET
USE 3 TRENCHES EACH 42 FT LONG FOR INITIAL SYSTEM
USE 2 TRENCHES EACH 62.5 FT LONG FOR FUTURE REPLACEMENT SYSTEM

MINIMUM TRENCH SPACING = 2D+W = 2X3 + 3 = 9 FEET
USE MINIMUM TRENCH SPACING FOR 3 FT WIDE TRENCH AS 10 FEET

THE HOUSE WOULD ALSO REQUIRE A 1,500 GALLON SEPTIC TANK PLUS A BAT SYSTEM