

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 555327

AGENCY REVIEW: \_\_\_\_\_

DATE 11-24-14

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 unknown 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) Robert B. Williams, c/o Mildenberg, Boender + Assoc.

DAYTIME PHONE 410-997-0296 CELL \_\_\_\_\_ FAX 410-997-0298

MAILING ADDRESS 7350-B Grace Drive, Columbia, MD 21044  
STREET CITY/TOWN STATE ZIP

APPLICANT Jacob Hikmat, President, Greenberry, Inc.

DAYTIME PHONE 410-997-0296 CELL \_\_\_\_\_ FAX 410-997-0298

MAILING ADDRESS 7350-B Grace Drive, Columbia, MD 21044  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME Greenberry, Non Buildable Bulk Parcel G LOT NO. 26

PROPERTY ADDRESS 1310 Greenberry Lane, Clarksville, MD  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID \_\_\_\_\_ PARCEL(S) 48 PROPOSED LOT SIZE 46,986 sf

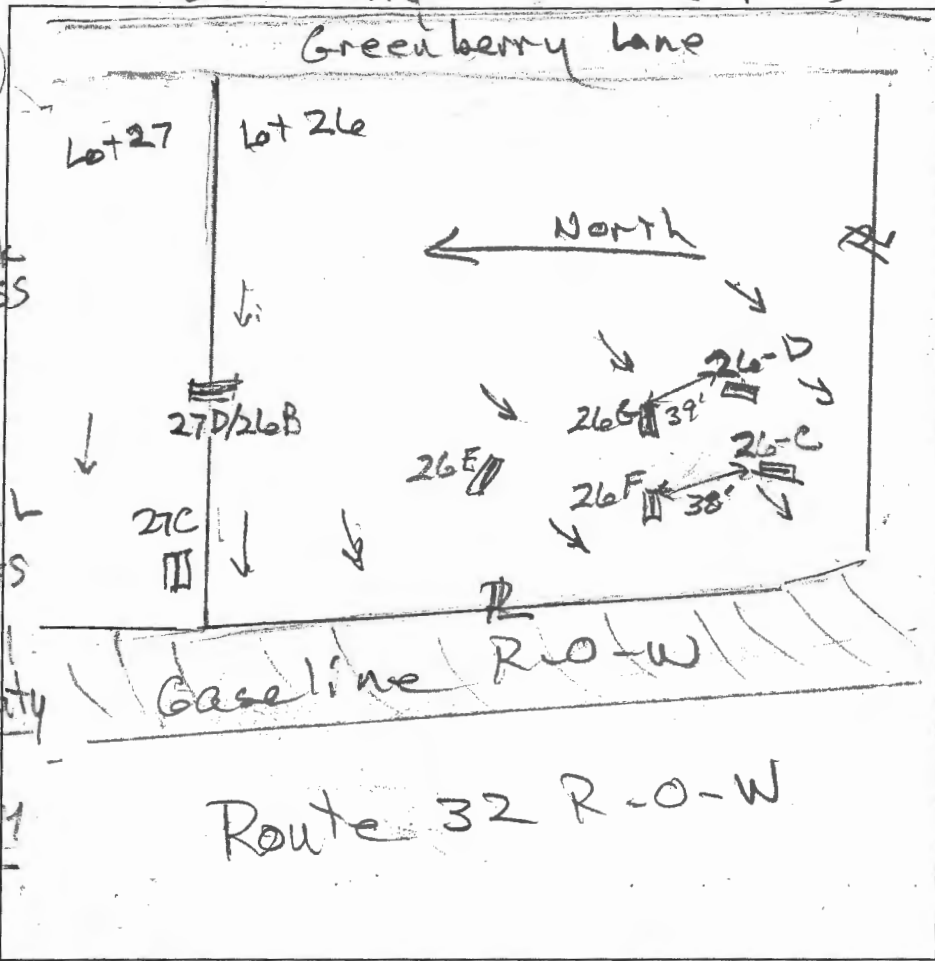
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. 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  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

Greenberry Lot 26 (Proposed)



(26B 27D)  
 grey brn L to yel brn L  
 1.3' brn L, 2msbk few mica, SS  
 2' yel-red L thick platy clay skins, SS  
 3.7' brn & yel-red L thick platy clay skins, SS  
 6' red & yel sl, thick platy

7' reddish sl, thick platy

(26-E)  
 dk brn L to brn L, 2msbk

1.1' brn L, 2msbk

2' red L, 3msbk

3.5' yel-red sl thin platy many mica

4.3' red sl thick platy many mica

6' red L thick platy many mica

12' red L thick platy many mica

(26-C)  
 dk brn L to brn L, 1msbk

1.9' brn L, 2msbk brn sl, 2csbk

2.6' red L thin platy 10% cobbles

5.4' red sl thin platy 10% channels

6' red sl thin platy many mica

8.2' red, yel-red & blk ls many mica thick platy

11' red & brn ls micaceous

12' thin platy few channels

(26-D)  
 dk brn L to brn L, 1msbk

1' brn L, 2msbk

2.5' yel-red L 2csbk

4.2' brn sl thick platy common mica

5.5' red sl thick platy many mica

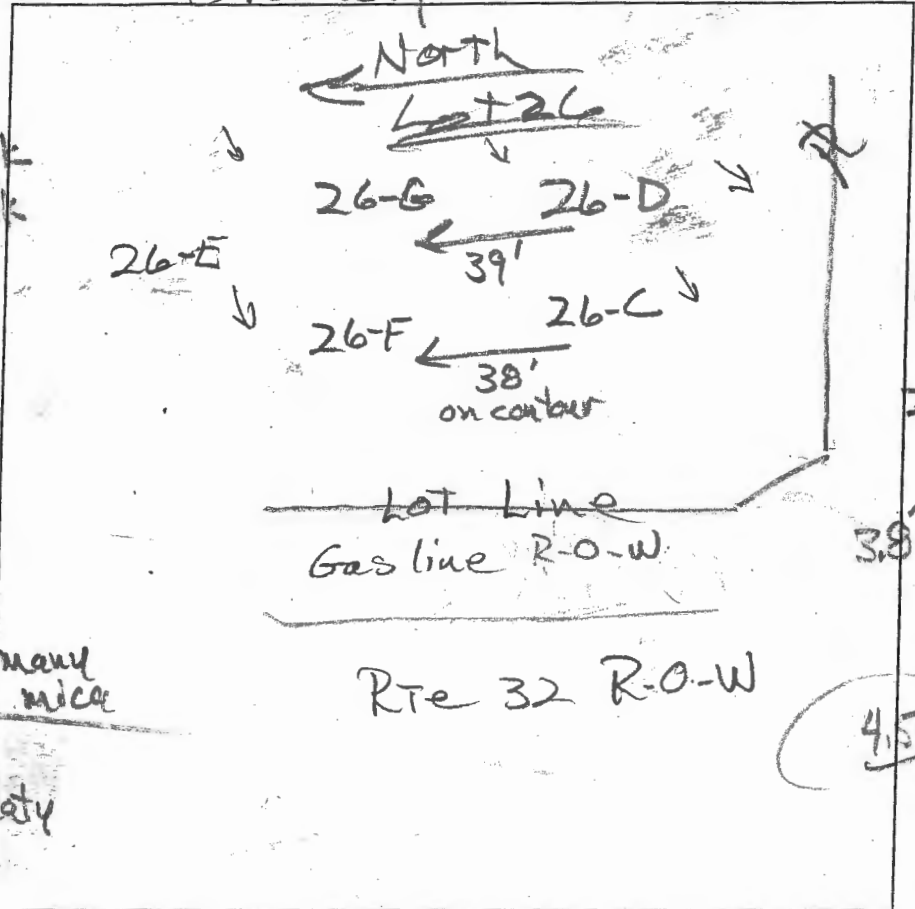
6.8' red & yellow sl, thin platy many mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
3/11/15	26B 27D	7' 12"	12:16	12:18	12:25	7	P
3/11/15	26E	7' 5" 12"	1:58	2:02	2:11	9	P
3/11/15	26C	7' 8" 12"	2:39	3:09 <sup>+</sup>	---	---	F
3/11/15	26D	7' 9" 12"	3:22	3:52 <sup>+</sup>	---	---	F

REMARKS 26B woodland roadbed; Did not dig 26-A  
 SANITARIAN P Bricker BACKHOE J & A OTHERS Jacob Hikmot  
 TEST HOLES USED IN SDA S. Collins Nathan Jan AVG. PERC TIME SQ. FT/BR  
 TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE S/W

Proposed  
Greenberry Lot 26

26-F  
 dk brnl  
 to brnl, 1 fsk  
 brnl, 2 usbk  
 few mica  
 2'  
 brnl  
 thin platy  
 few mica  
 35'  
 brnl  
 on common  
 mica  
 5'  
 red & yellow  
 8' sl, thin platy  
 many mica  
 red & brn  
 ls, thick platy  
 many mica  
 12'



26-G  
 dk brnl  
 brnl, 1 fsk  
 brnl, 2 usbk  
 1'  
 brnl  
 3' fsk  
 6.6'  
 red cl  
 3' c sbk  
 2.8'  
 red & brn  
 L, thick platy  
 common mica  
 3.8'  
 red & yellow  
 5' thick platy  
 many mica  
 layers horizontal  
 4.5'  
 red ls, many mica  
 & yellow & brn s  
 interbedded  
 thick platy  
 6.8'  
 brn & red  
 & grey-brn  
 ls, many mica  
 12.8'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
3/11/15	26F	7.9/12'	3:54	4:05	4:30	25	P
3/11/15	26G	12.8'	Visual		Sidewalk 0.2 gpd/100'	4.5-3'	P

REMARKS \_\_\_\_\_  
 SANITARIAN R. Bricker BACKHOE JBA OTHERS Jacob Hikmat  
 TEST HOLES USED IN SDA S. Collins Nathan & Jan AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

**TRANSMITTAL OF PLANS FOR REVIEW**  
**DEPARTMENT OF PLANNING & ZONING**  
**DEVELOPMENT ENGINEERING DIVISION**

Rev.Eng. JWW

11/19/2020

**TO:**

<input type="checkbox"/>	DAN WARD, LITTLE PATUXENT WATER RECLAMATION PLANT
<input type="checkbox"/>	MARK KREIS, BU OF ENVIRONMENTAL SERVICES (SDP - TOWNHOUSE & APT.)
<input type="checkbox"/>	HEATHER PANDULLO (RETAINING WALLS)
<input type="checkbox"/>	TRAFFIC ENG DIV. (SKETCH, PREL., FINAL RDS & PLAT & COM. SDP)
<input type="checkbox"/>	TRANSPORTATION AND SPECIAL PROJECTS
<input type="checkbox"/>	BUREAU OF HIGHWAYS (ROAD CONST. DRWGS. & RED-LINE)
<input type="checkbox"/>	DIVISION OF LAND DEVELOPMENT (DESIGN WAIVERS - SDP & ROAD CONST. DRWGS. - RED-LINE)
<input type="checkbox"/>	INSPECTIONS, LICENSES & PERMITS (COMMERCIAL SDP - RED-LINE)
<input type="checkbox"/>	SOIL CONSERVATION SERVICES (SDP & ROAD CONST. DRWGS. - RED-LINE)
<input type="checkbox"/>	TOM BUTLER, DEPUTY DIRECTOR, DPW, ENGINEERING, DEVELOPMENT, AND CONSTRUCTION (DESIGN WAIVERS)
<input type="checkbox"/>	PARRIS ZIRKENBACH, TRAFFIC ENG. DIV. (PREL., FINAL RDS & PLAT & COMMERCIAL SDP - STREET LIGHT LAYOUT)
<input checked="" type="checkbox"/>	HEALTH DEPARTMENT
<input type="checkbox"/>	FIRE & RESCUE

**SUBJECT: PLANS FOR REVIEW**

**COMMENTS DUE:** ASAP

**P & Z FILE NUMBER:** F-17-056

**NAME OF PLAN:** Greenberry

**ENCLOSURE:**

<input type="checkbox"/> SKETCH PLAN	<input type="checkbox"/> SITE DEVELOPMENT PLAN
<input type="checkbox"/> SKETCH PRELIMINARY PLAN	<input type="checkbox"/> INDUSTRIAL WASTE SURVEY
<input type="checkbox"/> PRELIMINARY PLAN	<input type="checkbox"/> RED-LINE ROAD CONST
<input type="checkbox"/> FINAL PLAT	<input checked="" type="checkbox"/> RED-LINE SDP
<input type="checkbox"/> FINAL PLAN	<input type="checkbox"/> TRAFFIC STUDY/APFO
<input type="checkbox"/> DESIGN WAIVER	<input type="checkbox"/> WAIVER PETITION

SUBMISSION RECEIVED FROM: DP&Z

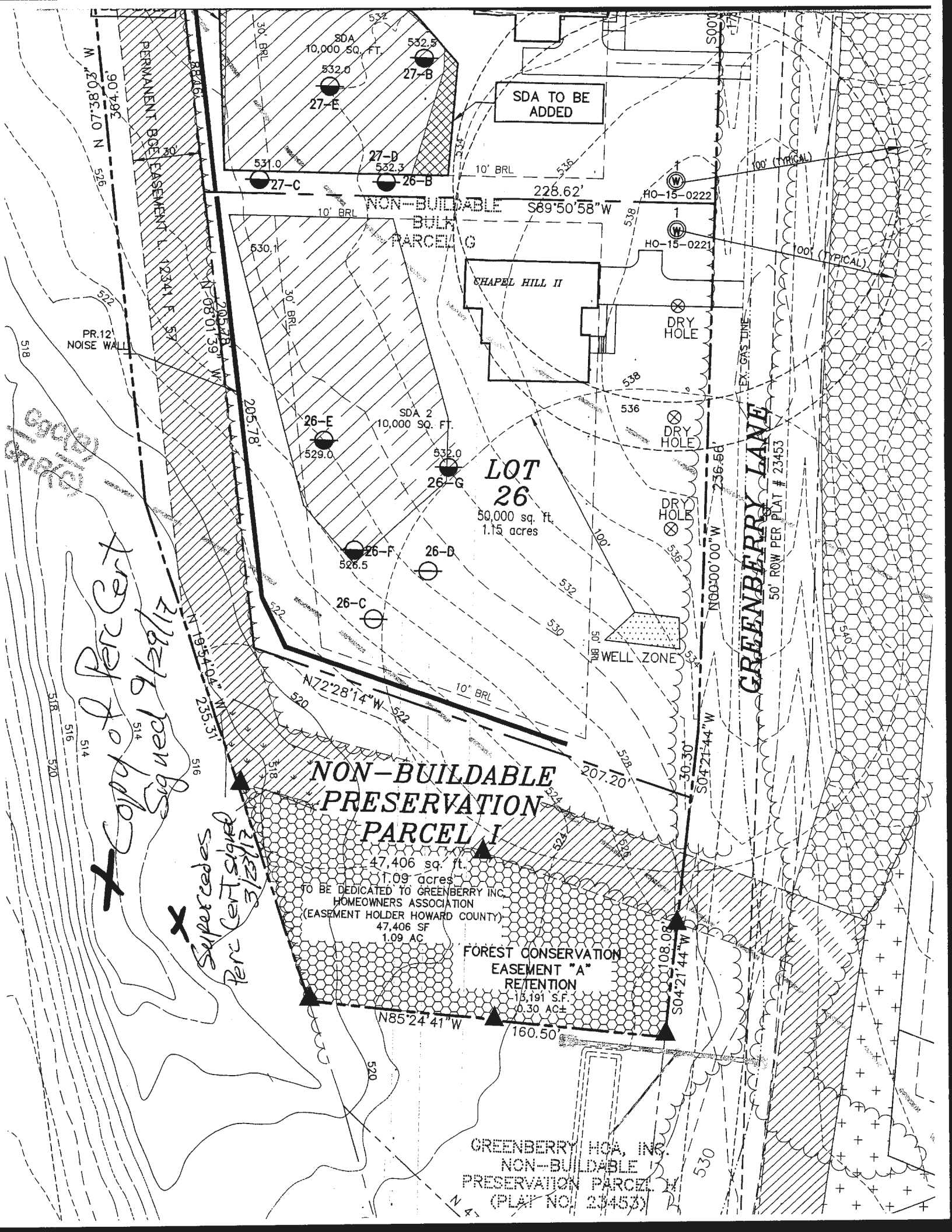
*Please return the drawings back to DED.*

RETURN COMMENTS TO DEVELOPMENT ENGINEERING DIVISION EITHER ON THIS FORM OR VIA E-MAIL TO REVIEW ENGINEER

Comments:

*The liner for the SWM facility is not adequate. The entire absorptive surface of the facility must be lined with an impermeable material as the SWM facility is within 100' of an approved well location (well zone).*

SIGNED BY: B. Buder DIVISION: Environmental Health DATE: 11/25/2020



*X Copy of Perc Cert Signed 9/29/17*

*X Supercedes Perc Cert signed 3/23/17*

SDA TO BE ADDED

NON-BUILDABLE BULK PARCELS

SHAPEL HILL II

**LOT 26**  
50,000 sq. ft.  
1.15 acres

**NON-BUILDABLE PRESERVATION PARCEL I**

47,406 sq. ft.  
1.09 acres  
TO BE DEDICATED TO GREENBERRY INC. HOMEOWNERS ASSOCIATION  
(EASEMENT HOLDER HOWARD COUNTY)  
47,406 SF  
1.09 AC

FOREST CONSERVATION EASEMENT "A" RETENTION  
15,191 S.F.  
0.30 AC±

GREENBERRY HOA, INC.  
NON-BUILDABLE PRESERVATION PARCEL I  
(PLAY NO. 23453)

**GREENBERRY LANE**  
50' ROW PER PLAT # 23453

PERMANENT BOE EASEMENT L 12341 F 57

PR.12 NOISE WALL

HO-15-0222

HO-15-0221

DRY HOLE

DRY HOLE

DRY HOLE

WELL ZONE

SDA 10,000 SQ. FT.

SDA 2 10,000 SQ. FT.

595 N 07°38'03" W  
364.06'

205.78' N 08°01'39" W

235.31' N 19°34'04" W

N 72°28'14" W

N 85°24'41" W

228.62' S 89°50'58" W

S 00°0'0" W

N 60°00'00" W

S 04°21'44" W

S 04°21'44" W

S 30°

30' BRL

10' BRL

10' BRL

30' BRL

10' BRL

10' BRL

10' BRL

100' (TYPICAL)

100' (TYPICAL)

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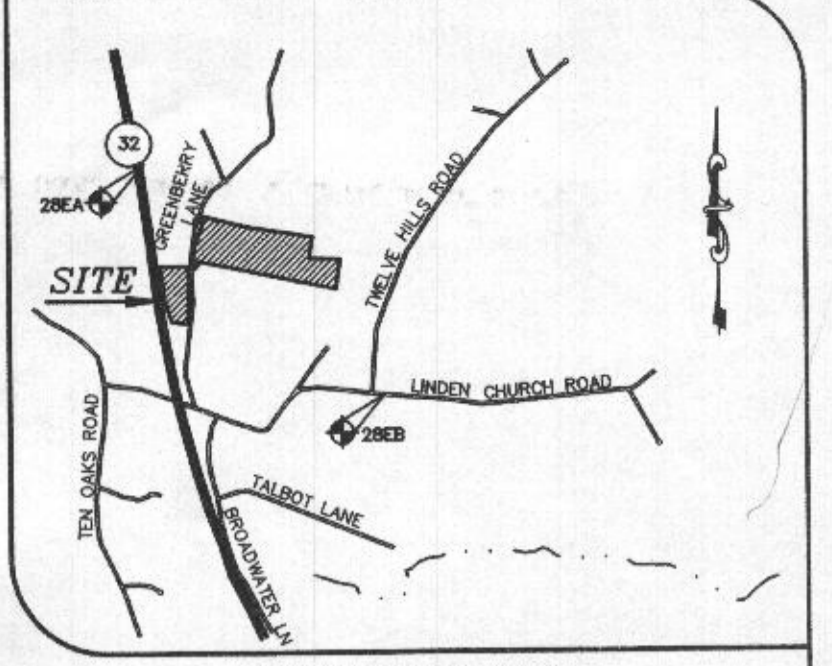
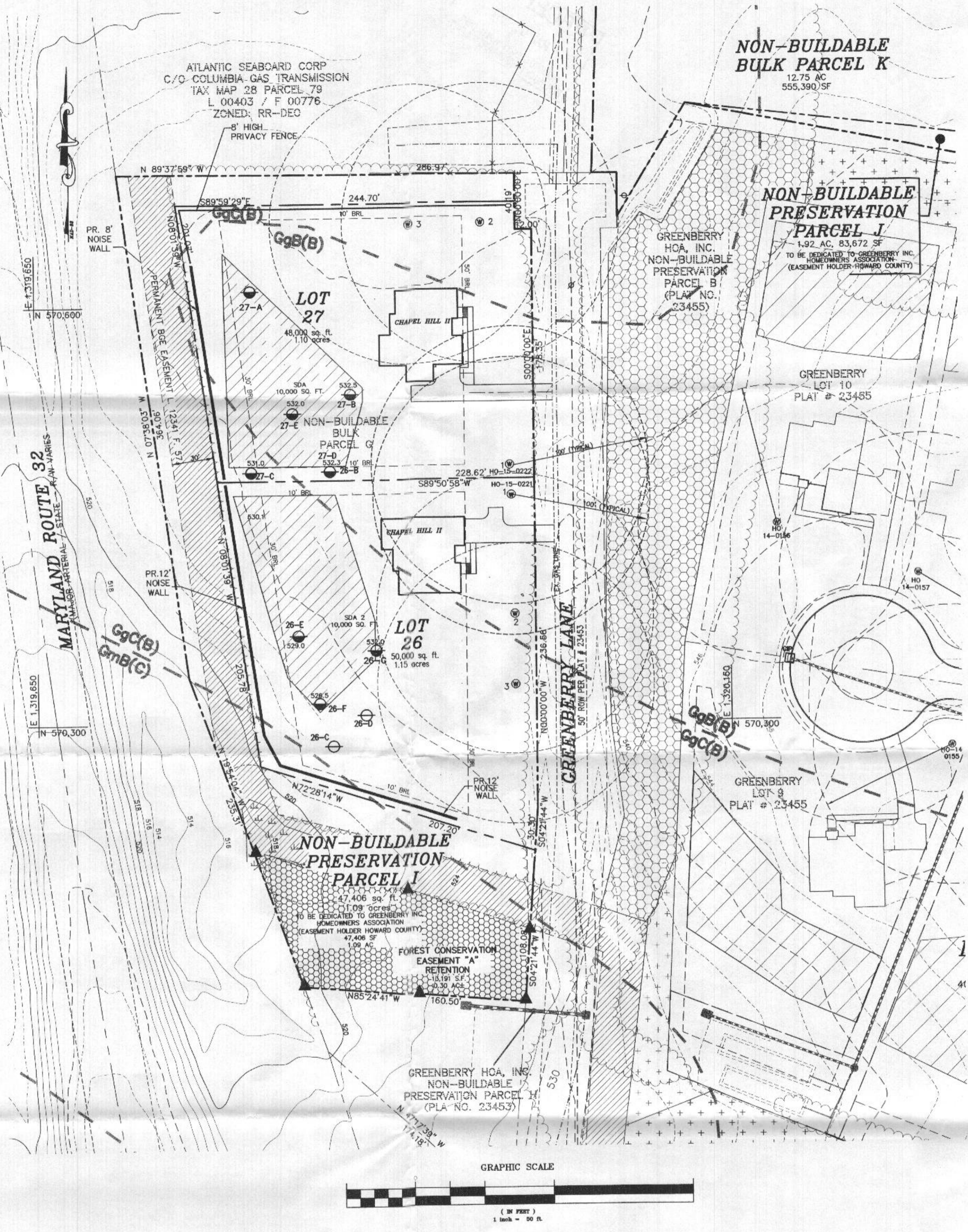
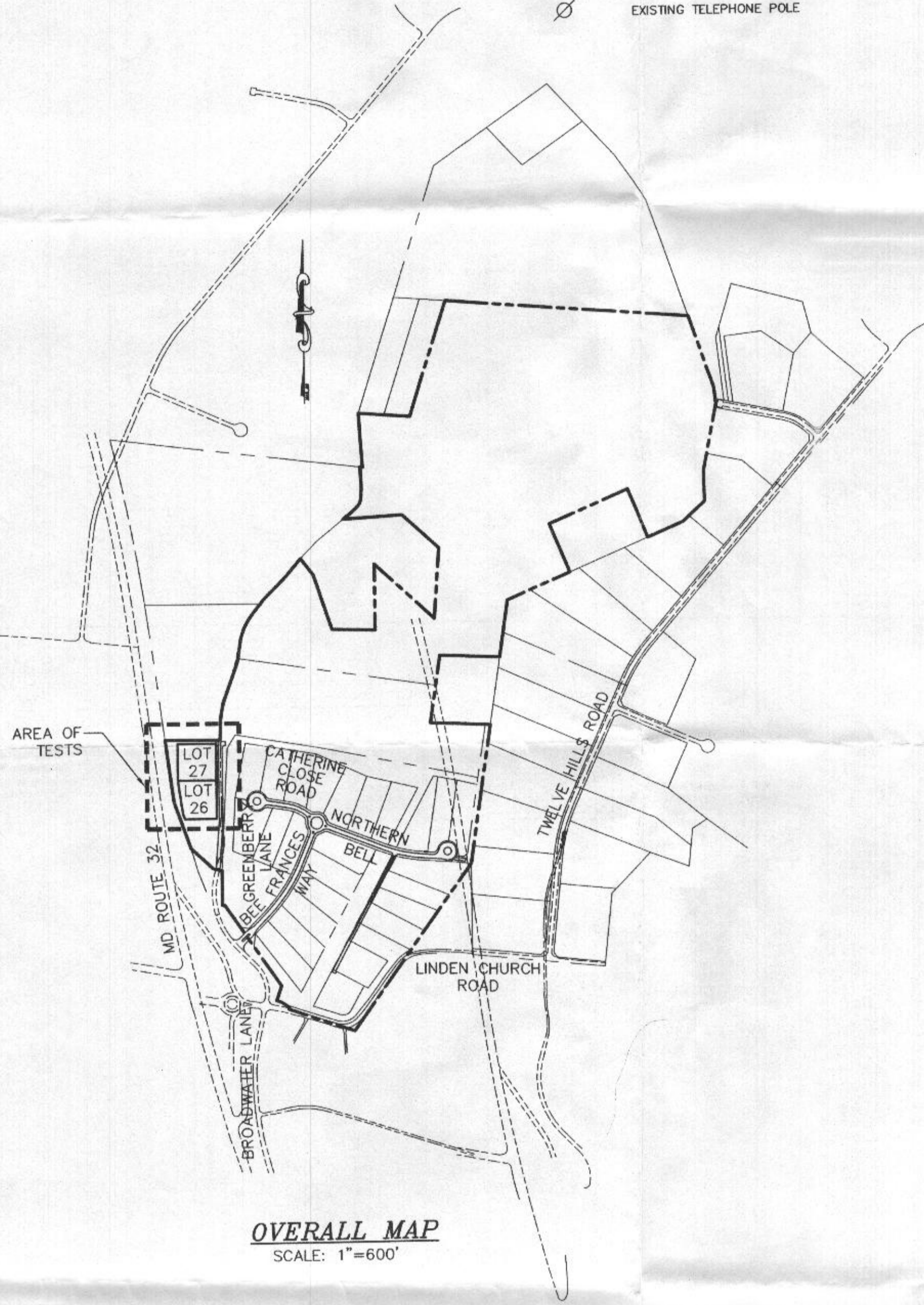
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**SOILS TABLE**

SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20
GgC	(B)	GLENELG LOAM, 8-15% SLOPES.	.20
GmB	(C)	GLENVILLE SILT LOAM, 3 TO 8% SLOPE	

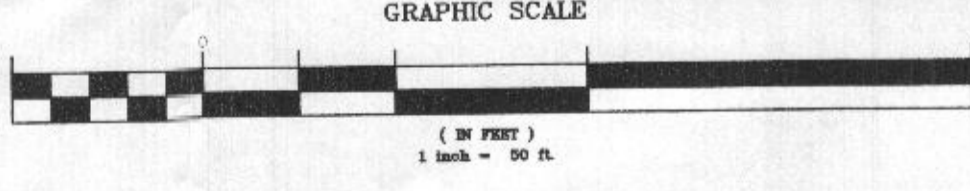
**LEGEND**

- EXISTING PERMANENT BGE EASEMENT (L 12341 F 57)
- FOREST CONSERVATION EASEMENT (RETENTION)
- FOREST CONSERVATION EASEMENT (AFFORESTATION)
- EX. WETLANDS
- PROPOSED POTABLE WATER WELL
- SOIL DIVISION LINE
- EXISTING TELEPHONE POLE



**NOTES:**

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 ZONING REGULATIONS
- SITE ANALYSIS DATA:  
LOCATION: TAX MAP: 28 GRID: 9 PARCEL: 48 NON-BUILDABLE BULK PARCELS C AND G  
ELECTION DISTRICT: FIFTH  
ZONING: RR-DEO  
TOTAL AREA: 18.01 AC.±  
LIMIT OF DISTURBED AREA: 1.49 AC.±  
PROPOSED USE FOR SITE: RESIDENTIAL  
TOTAL NUMBER OF UNITS: 2  
TYPE OF PROPOSED UNIT: SFD  
DEED REFERENCE: 5891 / 307  
PREVIOUS DPZ FILE #S: ECP-13-026, SP-13-010, F-14-095, ECP-16-050, F-16-022
- HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 28EA & 28EB  
STA. No. 28EA N 572,158.9652 E 1,319,400.6816 EL. 485.012  
STA. No. 28EB N 569,357.3657 E 1,322,113.5747 EL. 536.733
- TOPOGRAPHY WITHIN 200' OF SITE BOUNDARY SHOWN HEREON IS BASED ON AERIAL SURVEY FLOWN BY WINGS TOPOGRAPHY INC. DATED ON OR ABOUT MARCH 2007. TOPOGRAPHY WAS FIELD VERIFIED IN NOVEMBER 2012. OFF SITE TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS. MILDENBERG, BOENDER & ASSOCIATES, INC. CERTIFIES THAT THE ON SITE TOPOGRAPHY ILLUSTRATED ON THE PLAN IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
- SOILS LOCATION AND CLASSIFICATION BASED ON HOWARD COUNTY GIS SOIL SURVEY DATA.
- THIS AREA DESIGNATES A SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. PUBLIC SEWERAGE IS AVAILABLE. THIS 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 SEWAGE DISPOSAL AREA, AND RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- NO CEMETERIES OR BURIAL GROUNDS EXISTS ON-SITE.
- NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS NOT ADJACENT TO A DESIGNATED SCENIC ROAD.
- WETLANDS AND FOREST STAND DELINEATION WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. IN MARCH 2016.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENTAL DELAY" IF THE WELL DRILLING HOLDS UP SIGNATURE OF THE RECORD PLAT.
- A GROUNDWATER APPROPRIATIONS PERMIT (GAP) WAS OBTAINED FOR 26 LOTS BASED ON A TOTAL OF 31 LOT YIELD OF THE PROPERTY. THE GAP MAY NEED TO BE AMENDED.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THIS SYMBOL DESIGNATES A PASSED PERCOLATION TEST LOCATION
- THIS SYMBOL DESIGNATES A FAILED PERCOLATION TEST LOCATION
- THE PURPOSE OF THIS PLAN IS TO SHOW THE NEW LOCATION FOR WELL #1 ON LOT 26.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES, AND ANY WELL UP TO 300 FEET DOWNGRADEMENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS HAVE BEEN SHOWN.
- AT YIELD TEST, THE WATER FROM WELLS BEING INSTALLED ON LOTS 26 AND 27 MUST BE SAMPLED AND ANALYZED FOR ELEMENTAL SODIUM AND CHLORIDE, AND FOR TOTAL DISSOLVED SOLIDS (TDS).
- PROPOSED WELLS ON LOT 27 ARE LOCATED MORE THAN 200 FEET FROM THE SEPTIC RESERVE AREA ON LOT 10.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS REVIEWED THE PROPOSED WELL AND SEWAGE DISPOSAL AREA LOCATIONS ILLUSTRATED ON THIS PLAN AS RECOMMENDED BY THE HOWARD COUNTY HEALTH DEPARTMENT, AND HAS GRANTED VARIANCES TO ALLOW WELL LOCATIONS ON GREENBERRY SUBDIVISION, LOT 27 TO BE DOWNGRADEMENT OF THE SEWAGE DISPOSAL AREA ON GREENBERRY, LOT 10, PURSUANT TO THE FOLLOWING CONDITIONS:  
A. WELLS WILL BE REQUIRED TO HAVE STEEL CASING TO A MINIMUM DEPTH OF 50 FEET, OR 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER, AND BE AT LEAST 200 FEET DISTANCE FROM ANY SEPTIC SYSTEM DRAINFIELD THAT IS UPGRADEMENT.  
B. THE SEPTIC SYSTEMS INSTALLED ON LOT 10 WILL HAVE THESE CHARACTERISTICS:  
1. A BAT UNIT MUST BE INSTALLED IN THE INITIAL SYSTEM.  
2. ALL DRAINFIELDS INSTALLED IN THE RESPECTIVE SDA WILL BE DESIGNED FOR LOW-PRESSURE DISTRIBUTION OR EQUIVALENT.



P:\2004\15-008\dwg\FINAL 26 and 27

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*Superceded*

APPROVED BY: *Maria Rosman*  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 3/23/2017



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17942, EXP DATE 9/03/18  
R. JACOB HIKMAT, P.E.  
DATE: 2/6/17

**DEVELOPER**  
GREENBERRY, INC.  
7350-B GRACE DRIVE  
COLUMBIA, MARYLAND 21044  
(410)997-0296

**OWNER**  
ROBERT B. WILLIAMS  
JOANNA K. BENEDICT  
BARBARA B. CUSACK  
WILLIAM I. SLADE, JR.  
C/O MILDENBERG, BOENDER & ASSOC.  
7350-B GRACE DRIVE  
COLUMBIA, MARYLAND 21044  
(410)997-0296

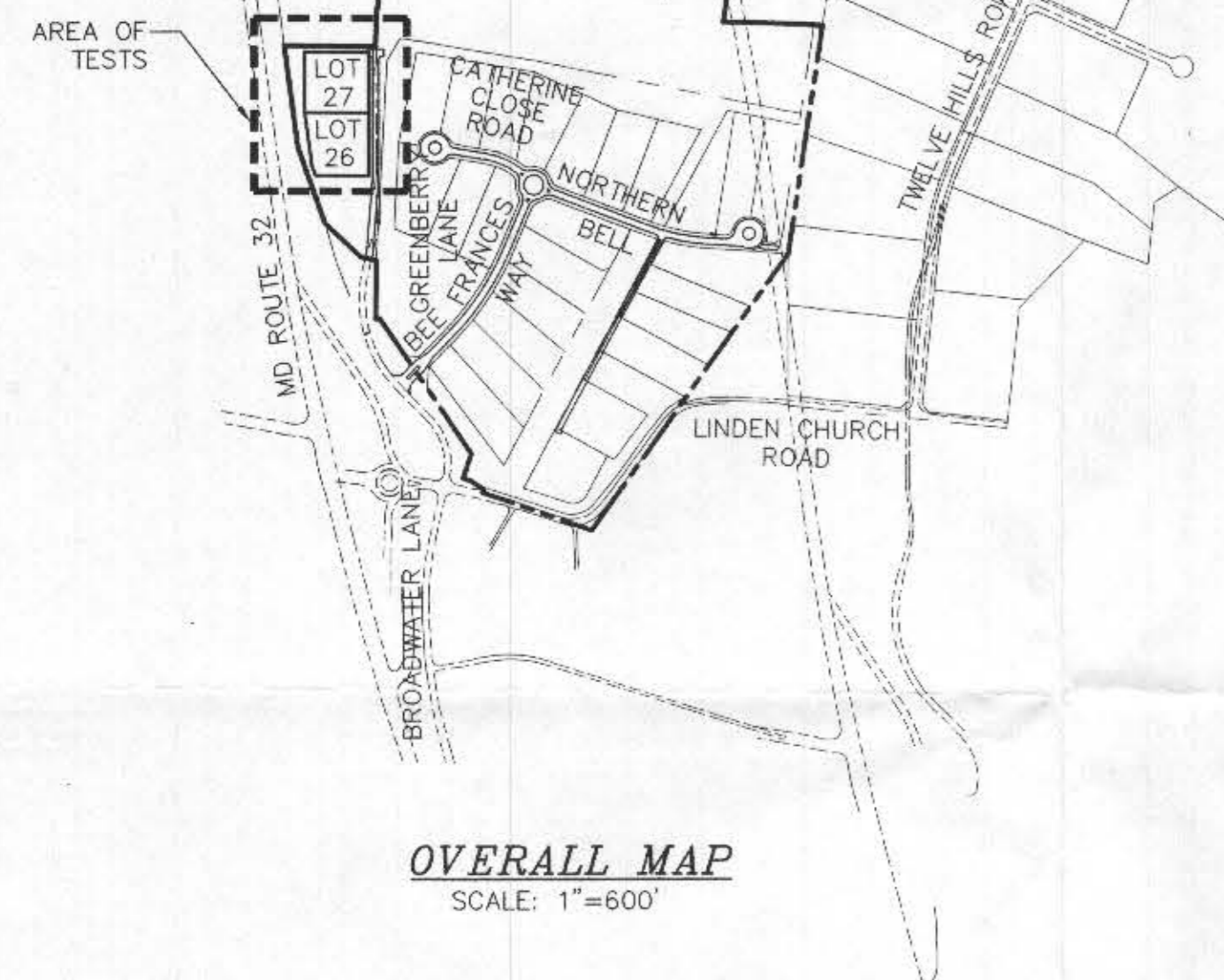
THE PURPOSE OF THIS REVISED PERC CERTIFICATION PLAN IS TO SHOW A NEW LOCATION FOR WELL #1 ON LOT 26.

Project	date	approval
15-008	MAR. 2017	MMM
illustration	engineering	RJH
MMM	MMM	MMM
scale	1"=60'	

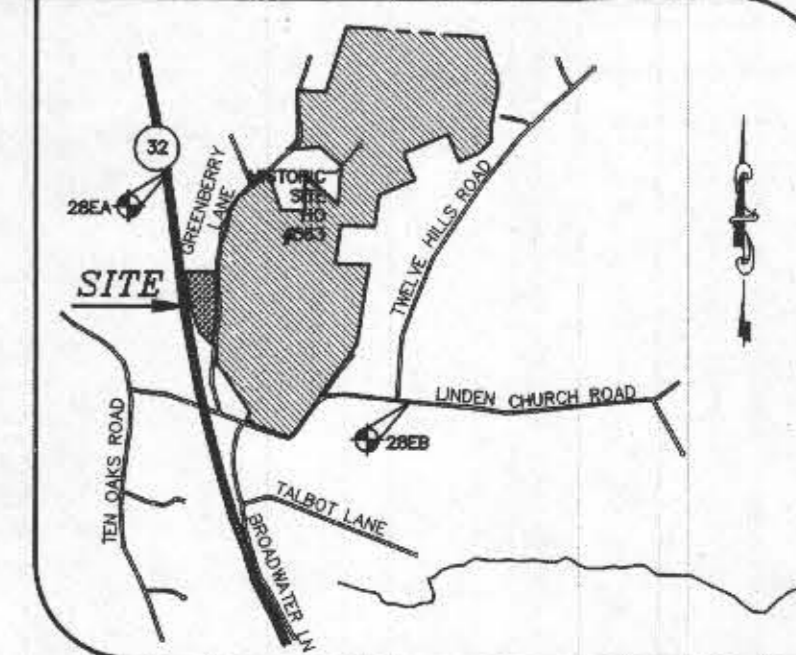
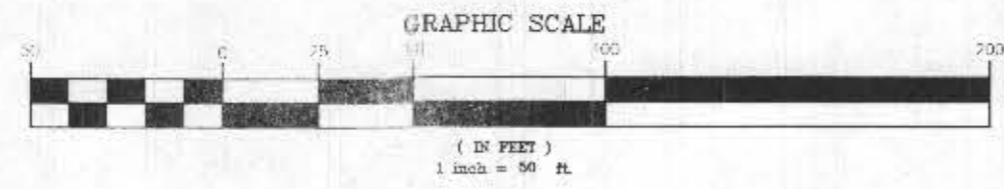
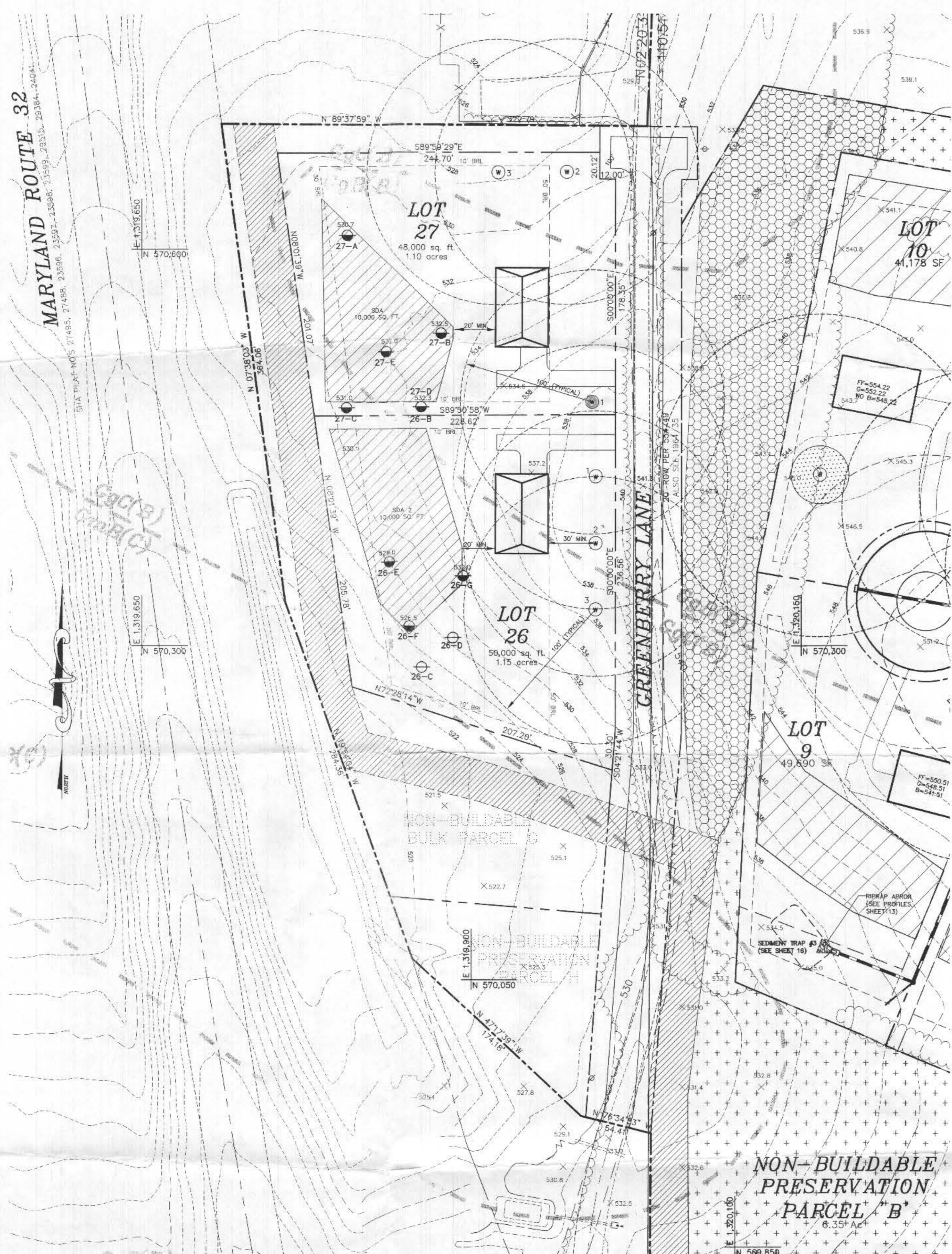
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revisions	

GREENBERRY, SECTION II  
LOTS 26 AND 27, NON-BUILDABLE PRESERVATION PARCELS 'I' AND 'J', AND NON-BUILDABLE BULK PARCEL 'K'.  
TAX MAP 28, PARCEL 48, NON-BUILDABLE BULK PARCELS C AND G  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
REVISED PERCOLATION TEST PLAN

**MILDENBERG, BOENDER & ASSOC., INC.**  
Surveyors  
Engineers Planners  
7305-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0296 Tel. (410) 997-0296 Fax



**OVERALL MAP**  
SCALE: 1"=600'



**VICINITY MAP**  
SCALE: 1" = 2000'  
ACC MAP 24 GRID F6

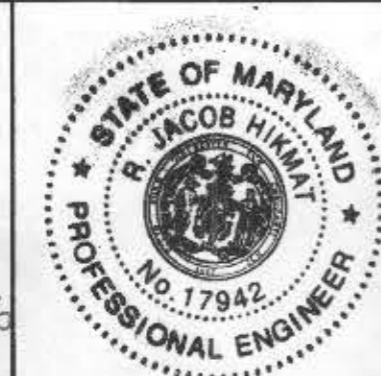
**HOWARD COUNTY HEALTH DEPARTMENT NOTES:**

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 ZONING REGULATIONS
- PARCEL BACKGROUND:**  
TAX MAP: 2, PARCELS: 48, NON-BUILDABLE BULK PARCEL G  
ELECTION DISTRICT: FIFTH  
ZONING: RR-DEO  
AREA: 3.34 Ac
- TOPOGRAPHY WITHIN 200' OF SITE BOUNDARY SHOWN HEREON IS BASED ON AERIAL SURVEY FLOWN BY WINGS TOPOGRAPHY INC. DATED ON OR ABOUT MARCH 2007. TOPOGRAPHY WAS FIELD VERIFIED IN NOVEMBER 2012. OFF SITE TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS.
- MILDENBERG, BOENDER & ASSOCIATES, INC. CERTIFIES THAT THE ON SITE TOPOGRAPHY ILLUSTRATED ON THE PLAN IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
- SOILS LOCATION AND CLASSIFICATION BASED ON HOWARD COUNTY GIS SOIL SURVEY DATA.**  
  - THIS AREA DESIGNATES A SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT 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 SEWAGE DISPOSAL AREA, & RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
  - THIS AREA DESIGNATES AN EXISTING SEWAGE DISPOSAL AREA
- 1 (with circle) REPRESENTS PROPOSED POTABLE WATER WELL
- THIS SYMBOL DESIGNATES A FOREST CONSERVATION EASEMENT (RETENTION)
- THIS SYMBOL DESIGNATES A FOREST CONSERVATION EASEMENT (AFFORESTATION)
- THIS SYMBOL DESIGNATES A SOIL DIVISION LINE
- THIS SYMBOL DESIGNATES AN EXISTING TELEPHONE POLE
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENTAL DELAY" IF THE WELL DRILLING HOLDS UP SIGNATURE OF THE RECORD PLAT.
- A GROUNDWATER APPROPRIATIONS PERMIT (GAP) WAS OBTAINED FOR 26 LOTS BASED ON A TOTAL OF 31 LOT YIELD OF THE PROPERTY. THE GAP MAY NEED TO BE AMENDED.
- ANY CHANGES TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THIS SYMBOL DESIGNATES A PASSED PERCOLATION TEST LOCATION
- THIS SYMBOL DESIGNATES A FAILED PERCOLATION TEST LOCATION
- THE PURPOSE OF THIS PLAN IS TO ESTABLISH TWO (2) NEW SEPTIC RESERVE AREAS AND WELL LOCATIONS FOR PROPOSED LOTS 26 & 27.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES, AND ANY WELL UP TO 300 FEET DOWNGRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS HAVE BEEN SHOWN.
- AT YIELD TEST, THE WATER FROM WELLS BEING INSTALLED ON LOTS 26 AND 27 MUST BE SAMPLED AND ANALYZED FOR ELEMENTAL SODIUM AND CHLORIDE, AND FOR TOTAL DISSOLVED SOLIDS (TDS).
- PROPOSED WELLS ON LOT 27 ARE LOCATED MORE THAN 200 FEET FROM THE SEPTIC RESERVE AREA ON LOT 10.
- THIS SYMBOL DESIGNATES THE AREA OF BGE EASEMENT (L21341, F.57).
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS REVIEWED THE PROPOSED WELL AND SEWAGE DISPOSAL AREA LOCATIONS ILLUSTRATED ON THIS PLAN AS RECOMMENDED BY THE HOWARD COUNTY HEALTH DEPARTMENT, AND HAS GRANTED VARIANCES TO ALLOW WELL LOCATIONS ON GREENBERRY SUBDIVISION - LOT 27 TO BE DOWNGRADIENT OF THE SEWAGE DISPOSAL AREA ON GREENBERRY, LOT 10, PURSUANT TO THE FOLLOWING CONDITIONS:
  - WELLS WILL BE REQUIRED TO HAVE STEEL CASING TO A MINIMUM DEPTH OF 50 FEET, OR 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER, AND BE AT LEAST 200 FEET DISTANCE FROM ANY SEPTIC SYSTEM DRAINFIELD THAT IS UPGRADIENT.
  - THE SEPTIC SYSTEMS INSTALLED ON LOT 10 WILL HAVE THESE CHARACTERISTICS:
    - A BAT UNIT MUST BE INSTALLED IN THE INITIAL SYSTEM.
    - ALL DRAINFIELDS INSTALLED IN THE RESPECTIVE SOA WILL BE DESIGNED FOR LOW-PRESSURE DISTRIBUTION OR EQUIVALENT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

**DEVELOPER**  
GREENBERRY, INC.  
7350-B GRACE DRIVE  
COLUMBIA, MARYLAND 21044  
(410)997-0296

**OWNER**  
ROBERT B. WILLIAMS  
JOANNA K. BENEDICT  
BARBARA B. CUSACK  
WILLIAM I. SLADE, JR.  
C/O MILDENBERG, BOENDER AND ASSOC.  
7350-B GRACE DRIVE  
COLUMBIA, MARYLAND 21044  
(410)997-0296

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17940, EXP DATE 9/03/16

R. JACOB HIKAT, P.E. DATE 1/25/16

APPROVED BY MAURICE ROSSMAN 2/9/2016  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

*\* Superseded 3/23/2017*

*Signed Per Cont 2/8/2016*

*Superseded*

**SOILS TABLE (WITHIN LOD)**

SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20
GgC	(B)	GLENELG LOAM, 8-15% SLOPES.	.20
GmB	(C)	GLENVILLE SILT LOAM, 3 TO 8% SLOPE	

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7905-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0296 Fax: (410) 997-0298 Fax

**GREENBERRY LOTS 26 AND 27**  
TAX MAP 28, PARCEL 48, NON-BUILDABLE BULK PARCEL G  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
PERCOLATION TEST PLAN

Project: 12-022  
Date: JAN 2016  
Illustration: MMM  
Scale: 1"=50'  
Description: PERCOLATION TEST PLAN  
Revisions: R/H

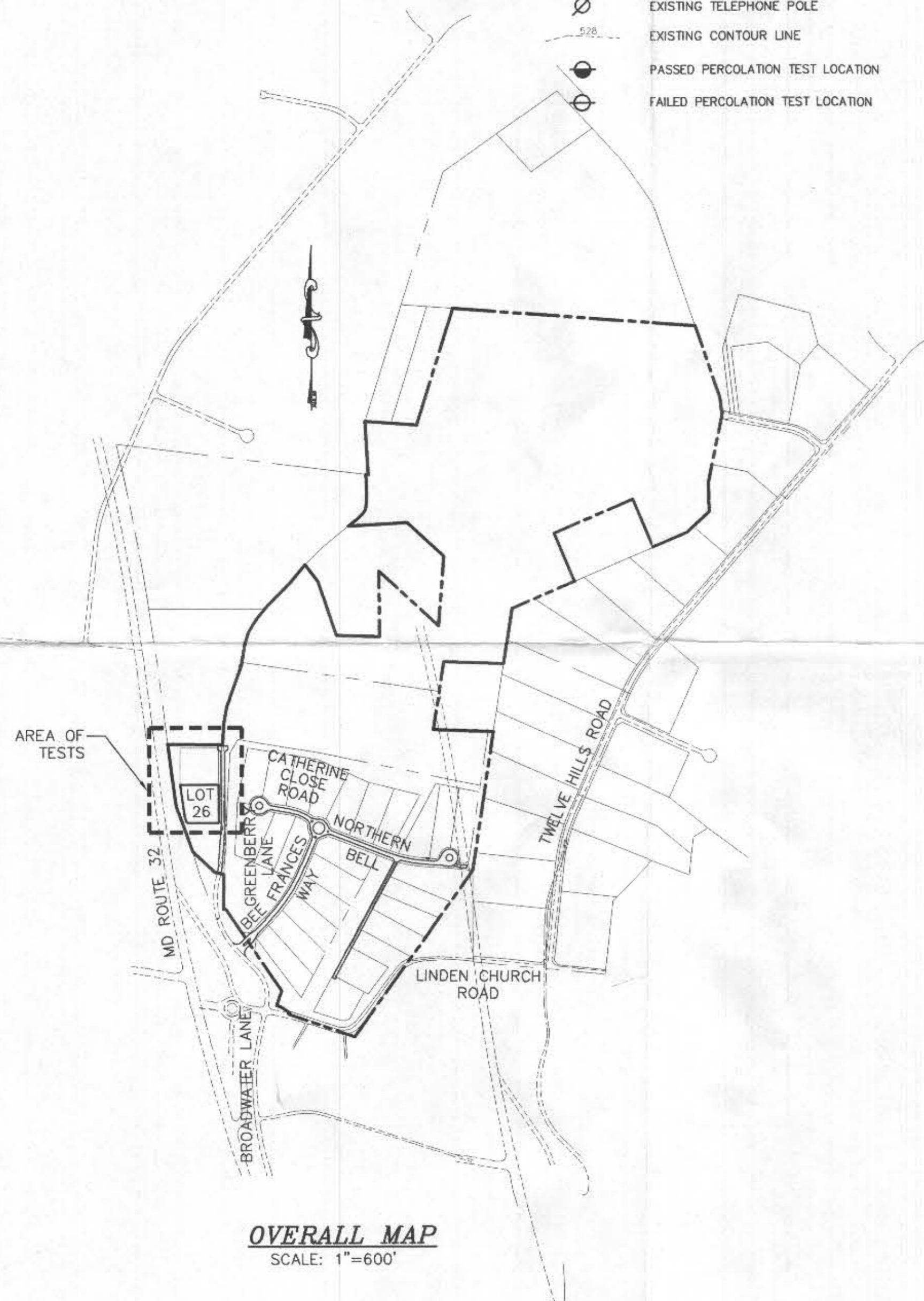
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**SOILS TABLE**

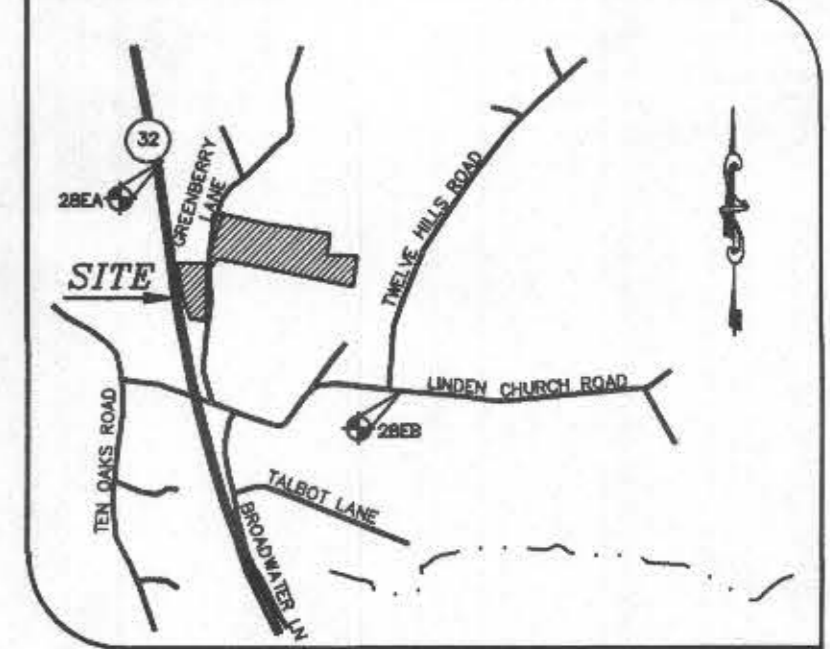
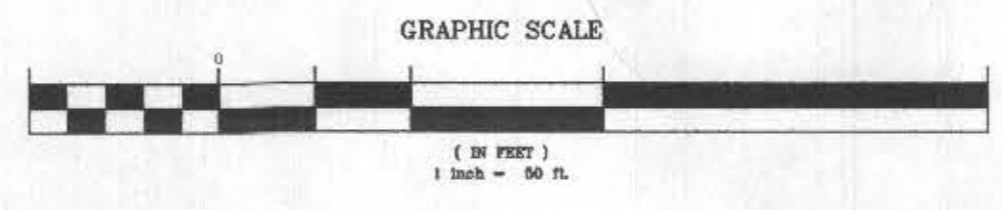
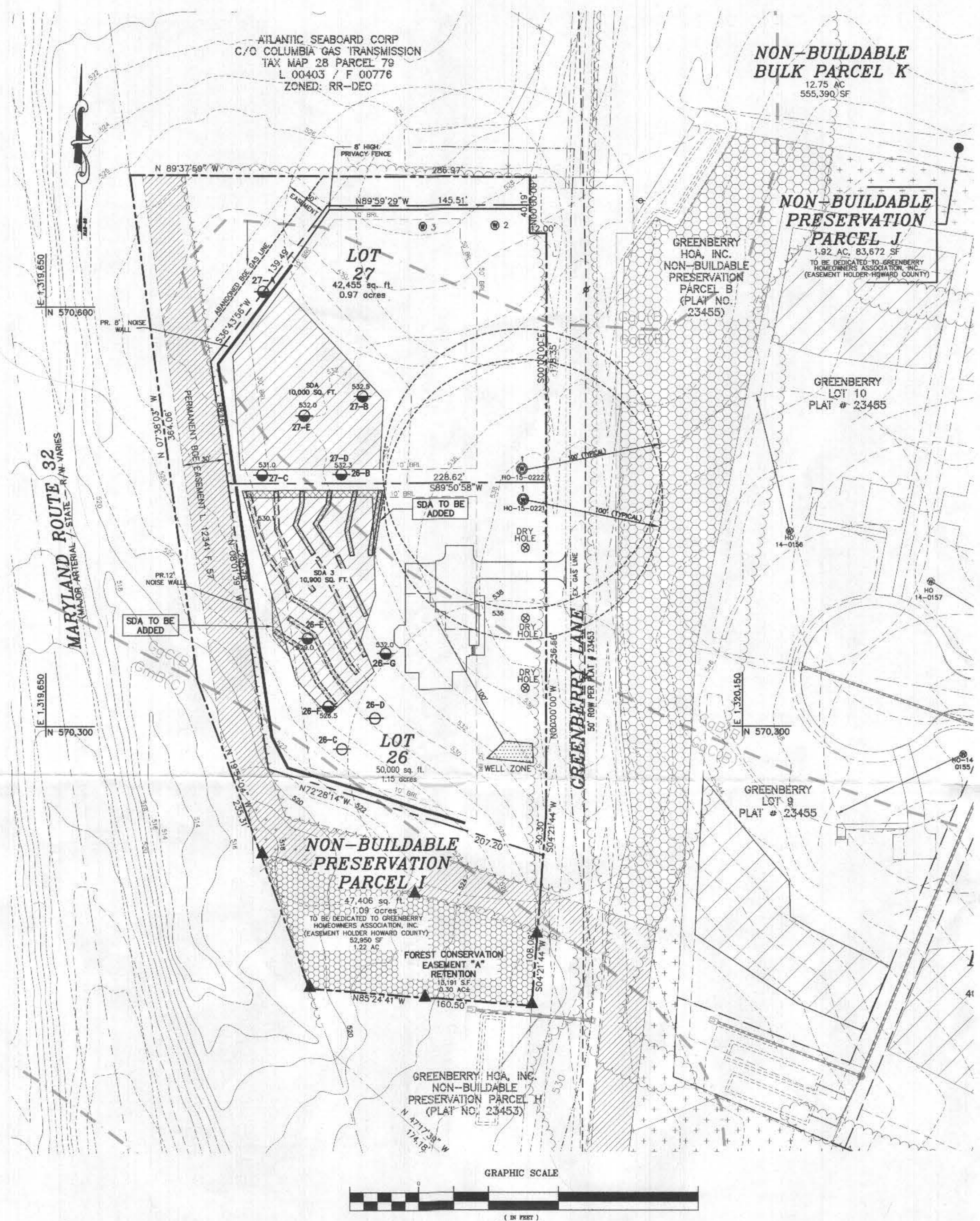
SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20
GgC	(B)	GLENELG LOAM, 8-15% SLOPES.	.20
GmB	(C)	GLENVILLE SILT LOAM, 3 TO 8% SLOPE	

**LEGEND**

- EXISTING PERMANENT BGE EASEMENT (L 12341 F 57)
- FOREST CONSERVATION EASEMENT (RETENTION)
- FOREST CONSERVATION EASEMENT (AFFORESTATION)
- EX. WETLANDS
- PROPOSED SEPTIC TRENCHES
- SDA TO BE ADDED
- PROPOSED WELL ZONE
- EXISTING POTABLE WATER WELL
- PROPOSED POTABLE WATER WELL
- DRY HOLE
- SOIL DIVISION LINE
- EXISTING TELEPHONE POLE
- EXISTING CONTOUR LINE
- PASSED PERCOLATION TEST LOCATION
- FAILED PERCOLATION TEST LOCATION



**OVERALL MAP**  
SCALE: 1"=600'



**VICINITY MAP**  
SCALE: 1" = 2000'  
ADD MAP 24 GRID F8

**NOTES:**

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 ZONING REGULATIONS
- SITE ANALYSIS DATA:  
LOCATION: TAX MAP: 28 GRID: 9 PARCEL: 48 LOT 26  
ELECTION DISTRICT: FIFTH  
ZONING: RR-DEO  
TOTAL AREA: 1.15 AC±  
LIMIT OF DISTURBED AREA: N/A  
PROPOSED USE FOR SITE: RESIDENTIAL  
TOTAL NUMBER OF UNITS: 1  
TYPE OF PROPOSED UNIT: SFD  
DEED REFERENCE: 19168 / 240  
PREVIOUS DPZ FILE #S: ECP-13-026, SP-13-010, F-14-095, ECP-16-050, F-16-022
- HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 28EA & 28EB  
STA. No. 28EA N 572,158.9652 E 1,319,400.6816 EL. 485.012  
STA. No. 28EB N 569,357.3657 E 1,322,113.5747 EL. 536.733
- TOPOGRAPHY WITHIN 200' OF SITE BOUNDARY SHOWN HEREON IS BASED ON AERIAL SURVEY FLOWN BY WINGS TOPOGRAPHY, INC. DATED ON OR ABOUT MARCH 2007. TOPOGRAPHY WAS FIELD VERIFIED IN NOVEMBER 2012. OFF SITE TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS. MILDENBERG, BOENDER & ASSOCIATES, INC. CERTIFIES THAT THE ON SITE TOPOGRAPHY ILLUSTRATED ON THE PLAN IS AN ACCURATE REPRESENTATION OF FIELD CONDITIONS.
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- NO CEMETERIES OR BURIAL GROUNDS EXISTS ON-SITE.
- NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS NOT ADJACENT TO A DESIGNATED SCENIC ROAD.
- WETLANDS AND FOREST STAND DELINEATION WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. IN MARCH 2016.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THIS SYMBOL DESIGNATES A PASSED PERCOLATION TEST LOCATION
- THIS SYMBOL DESIGNATES A FAILED PERCOLATION TEST LOCATION
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES, AND ANY WELL UP TO 300 FEET DOWNGRADEMENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS HAVE BEEN SHOWN.
- AT YIELD TEST, THE WATER FROM WELLS BEING INSTALLED ON LOTS 26 AND 27 WERE SAMPLED AND ANALYZED FOR ELEMENTAL SODIUM AND CHLORIDE, AND FOR TOTAL DISSOLVED SOLIDS (TDS).
- PROPOSED WELLS ON LOT 27 ARE LOCATED MORE THAN 200 FEET FROM THE SEPTIC RESERVE AREA ON LOT 10.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS REVIEWED THE PROPOSED WELL AND SEWAGE DISPOSAL AREA LOCATIONS ILLUSTRATED ON THIS PLAN AS RECOMMENDED BY THE HOWARD COUNTY HEALTH DEPARTMENT, AND HAS GRANTED VARIANCES TO ALLOW WELL LOCATIONS ON GREENBERRY SUBDIVISION - LOT 27 TO BE DOWNGRADEMENT OF THE SEWAGE DISPOSAL AREA ON GREENBERRY, LOT 10, PURSUANT TO THE FOLLOWING CONDITIONS:  
A. WELLS WILL BE REQUIRED TO HAVE STEEL CASING TO A MINIMUM DEPTH OF 50 FEET, OR 10 FEET INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER, AND BE AT LEAST 200 FEET DISTANCE FROM ANY SEPTIC SYSTEM DRAINFIELD THAT IS UPGRADIENT.  
B. THE SEPTIC SYSTEMS INSTALLED ON LOT 10 WILL HAVE THESE CHARACTERISTICS:  
1. A BAT UNIT MUST BE INSTALLED IN THE INITIAL SYSTEM.  
2. ALL DRAINFIELDS INSTALLED IN THE RESPECTIVE SDA WILL BE DESIGNED FOR LOW-PRESSURE DISTRIBUTION OR EQUIVALENT.

THE PURPOSE OF THIS REVISED PERC CERTIFICATION PLAN IS TO RECONFIGURE SEWAGE DISPOSAL AREA ON LOT 26

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
*Michael J. Davis*  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 9/28/2020



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 26859, EXP. DATE 08/08/21  
SAMER A. ALOMER P.E.  
DATE: 9/28/2020

**DEVELOPER**  
GREENBERRY, INC.  
7350-B GRACE DRIVE  
COLUMBIA, MARYLAND 21044  
(410)997-0296

**OWNER**  
NAJAF ALLY &  
ELLIA RAZA ALLY  
2705 CONET COURT  
SILVER SPRING, MARYLAND 20904

Project	date	author	scale	revision
20-020	SEP. 2020	MMH	1"=60'	RIH

T. REVISED SDA TO ACCOMMODATE LOWER TRENCHES (TRENCHES SHOWN)		8/10/2020	date
NO.		description	revisions

GREENBERRY, SECTION II  
LOTS 26 AND 27, NON-BUILDABLE PRESERVATION PARCELS 'I', AND 'J', AND NON-BUILDABLE BULK PARCEL 'K',  
TAX MAP 28, PARCEL 48, NON-BUILDABLE BULK PARCELS C AND G  
HOWARD COUNTY, MARYLAND  
FIFTH ELECTION DISTRICT  
**REVISED PERCOLATION TEST PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7305-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0296 Tel. (410) 997-0298 Fax.

**SOILS TABLE**

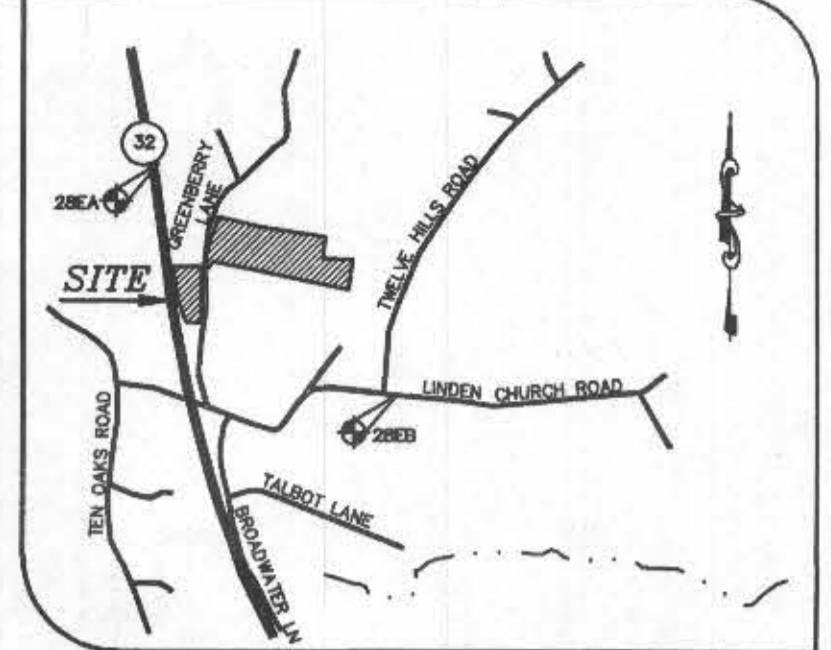
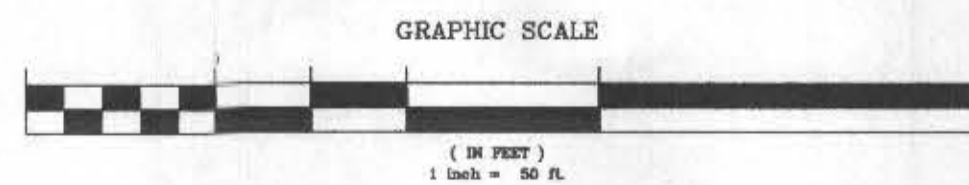
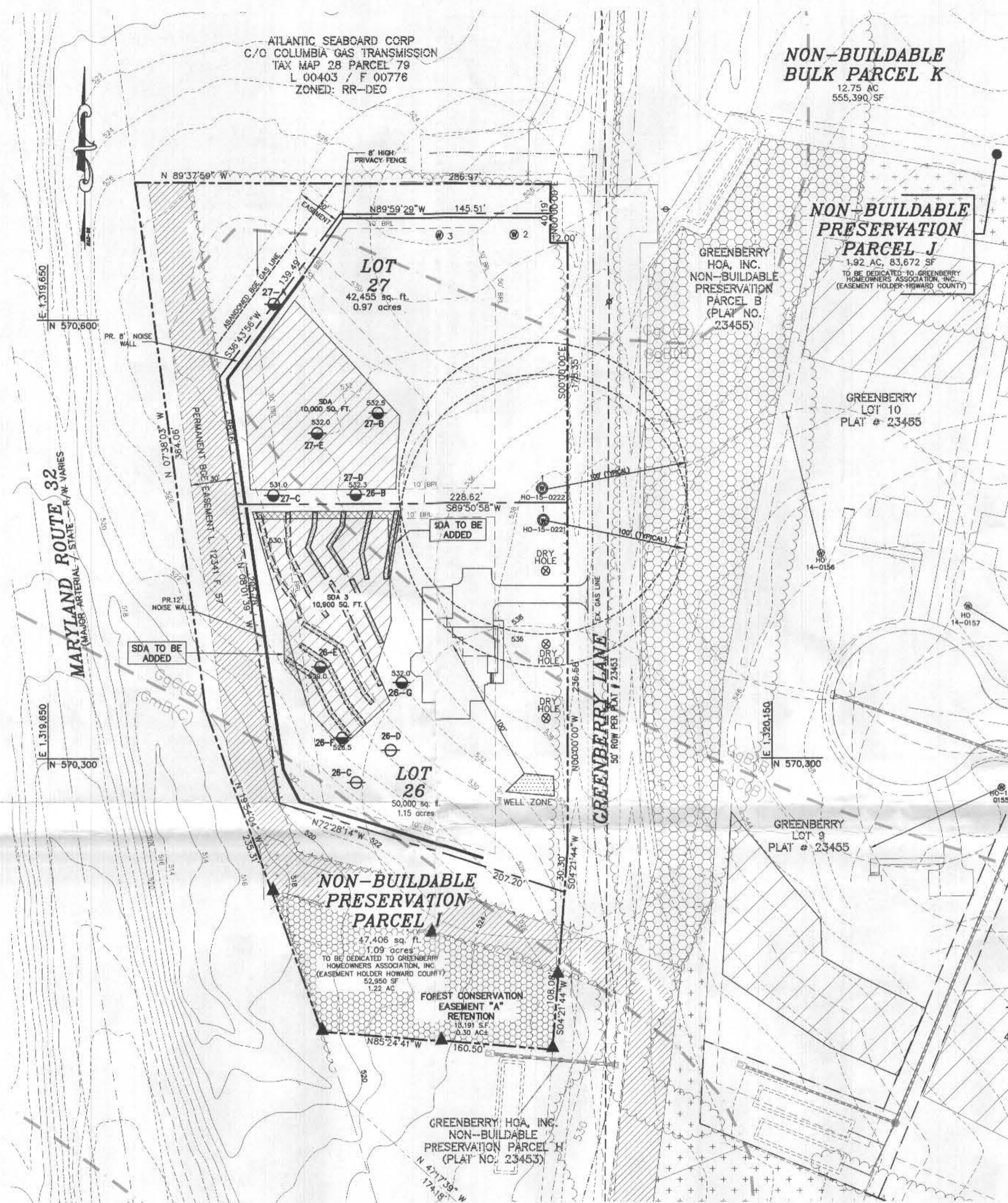
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- SOIL DIVISION LINE
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- EXISTING CONTOUR LINE
- PASSED PERCOLATION TEST LOCATION
- FAILED PERCOLATION TEST LOCATION



**OVERALL MAP**  
SCALE: 1"=600'



**VICINITY MAP**  
SCALE: 1"=2000'  
ADD MAP 24 GRID F6

**NOTES:**

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 ZONING REGULATIONS
- SITE ANALYSIS DATA:  
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ELECTION DISTRICT: FIFTH  
ZONING: RR-DEO  
TOTAL AREA: 1.15 AC±  
LIMIT OF DISTURBED AREA: N/A  
PROPOSED USE FOR SITE: RESIDENTIAL  
TOTAL NUMBER OF UNITS: 1  
TYPE OF PROPOSED UNIT: SFD  
DEED REFERENCE: 19168 / 240  
PREVIOUS DPZ FILE #S: ECP-13-026, SP-13-010, F-14-095, ECP-16-050, F-16-022
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THE PURPOSE OF THIS REVISED PERC CERTIFICATION PLAN IS TO RECONFIGURE SEWAGE DISPOSAL AREA ON LOT 26

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 10/9/20



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28859, EXP. DATE 08/08/21  
DATE: 9/28/2020

**DEVELOPER**  
GREENBERRY, INC.  
7350-B GRACE DRIVE  
COLUMBIA, MARYLAND 21044  
(410)997-0296

**OWNER**  
NAJAF ALLY & ELLIA RAZA ALLY  
2705 CONET COURT  
SILVER SPRING, MARYLAND 20904

Project	SEP. 2020	MM	MM	RRH
Scale	1"=50'			

Project	SEP. 2020	MM	MM	RRH
Scale	1"=50'			

**GREENBERRY SECTION II**  
**LOTS 26 AND 27, NON-BUILDABLE PRESERVATION PARCELS 'I', AND 'J', AND NON-BUILDABLE BULK PARCEL 'K',**  
TAX MAP 28, PARCEL 48, NON-BUILDABLE BULK PARCELS C AND G  
HOWARD COUNTY, MARYLAND  
**REVISED PERCOLATION TEST PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
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