

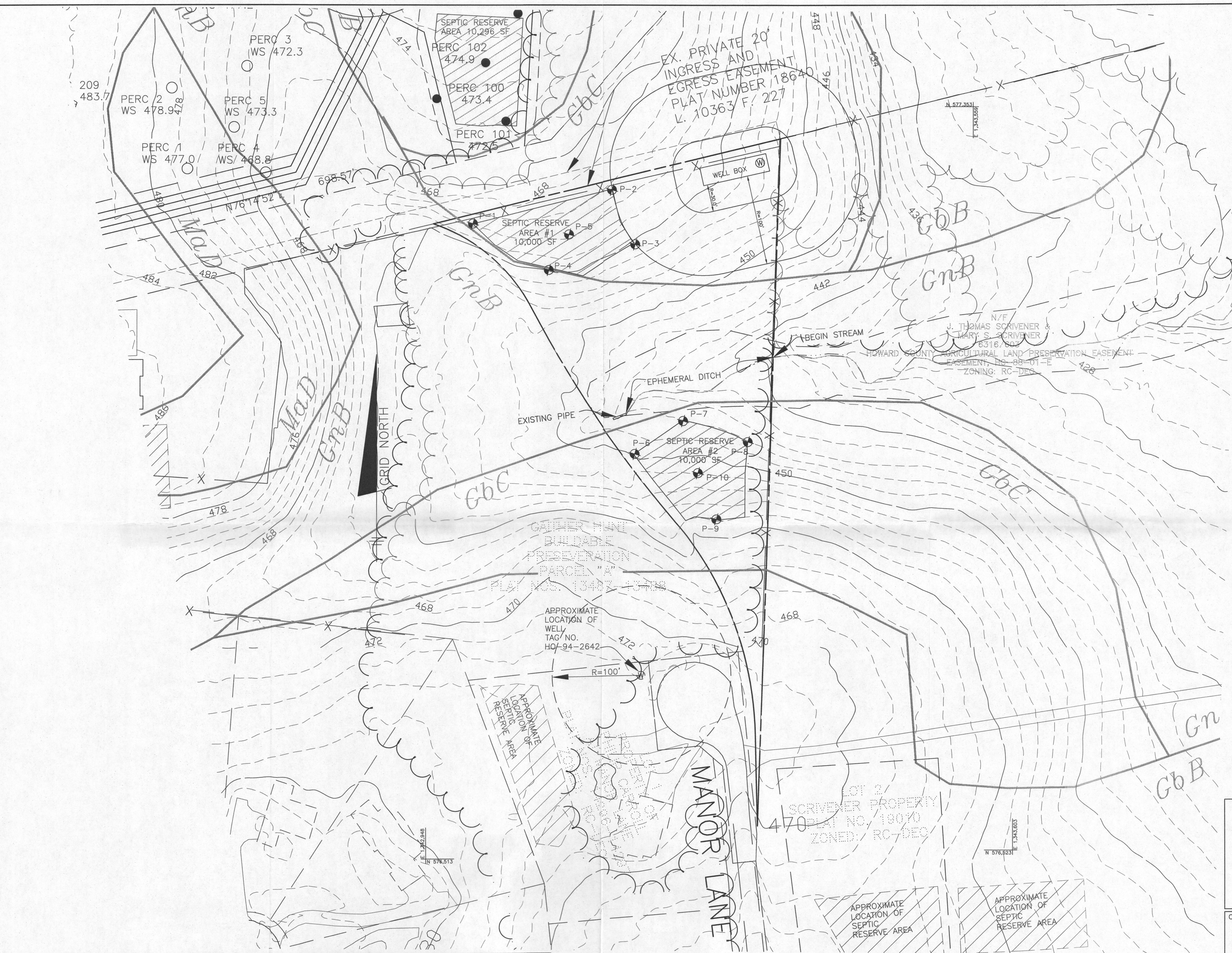
VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER 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 PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
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LEGEND

- 480 EXISTING CONTOURS
- EXISTING TREELINE
- LIMIT OF SUBMISSION
- EXISTING SEPTIC AREA
- PROPOSED SEPTIC AREA
- WELL BOX
- SOILS DELINEATION
- TEST HOLE
- EXISTING PERC HOLE
- EXISTING FAILED PERC HOLE



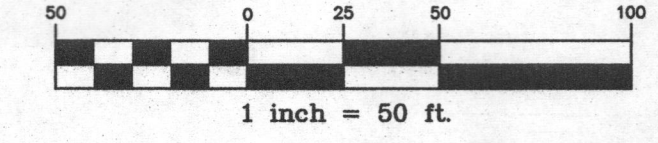
SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE
GbB		B		GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	0.2
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GnB**	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37

* INDICATES HYDRIC SOILS
** HIGHLY ERODIBLE, K>0.35, AND/OR 15% OR GREATER SLOPES
TAKEN FROM THE NRCS WEB SOIL SURVEY, JULY 2014, MAP 17.

PLAN VIEW

GRAPHIC SCALE



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.

PLAN PREPARER
JOHN CARNEY
FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

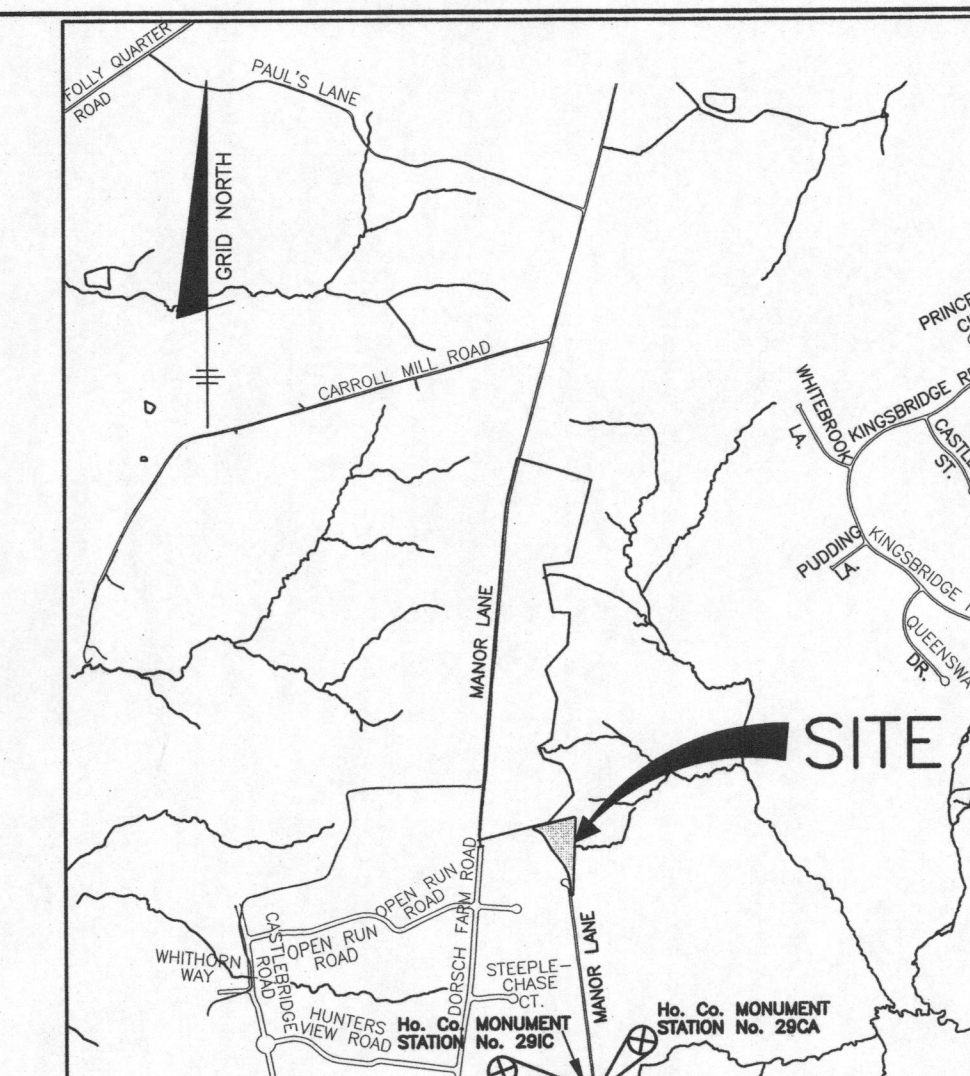
HOWARD COUNTY HEALTH OFFICER _____ DATE _____

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 • FAX: 410-465-6644
WWW.BEI-CIVILENGINEERING.COM

OWNER:		MANOR LANE	
SECURITY DEVELOPMENT PO BOX 417 ELLCOTT CITY, MARYLAND 21041 410-465-4244		LOCATION: TAX MAP: 23, GRID: 23 PARCEL 74 MANOR LANE, ELLCOTT CITY, MD 21042 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE:		PERCOLATION TEST PLAN	
DATE: OCTOBER, 2015	BEI PROJ. NO. 2730		
DESIGN: JC	DRAFT: EDD	CHECK: JC	SCALE: AS SHOWN
		SHEET 1 OF 1	



VICINITY MAP
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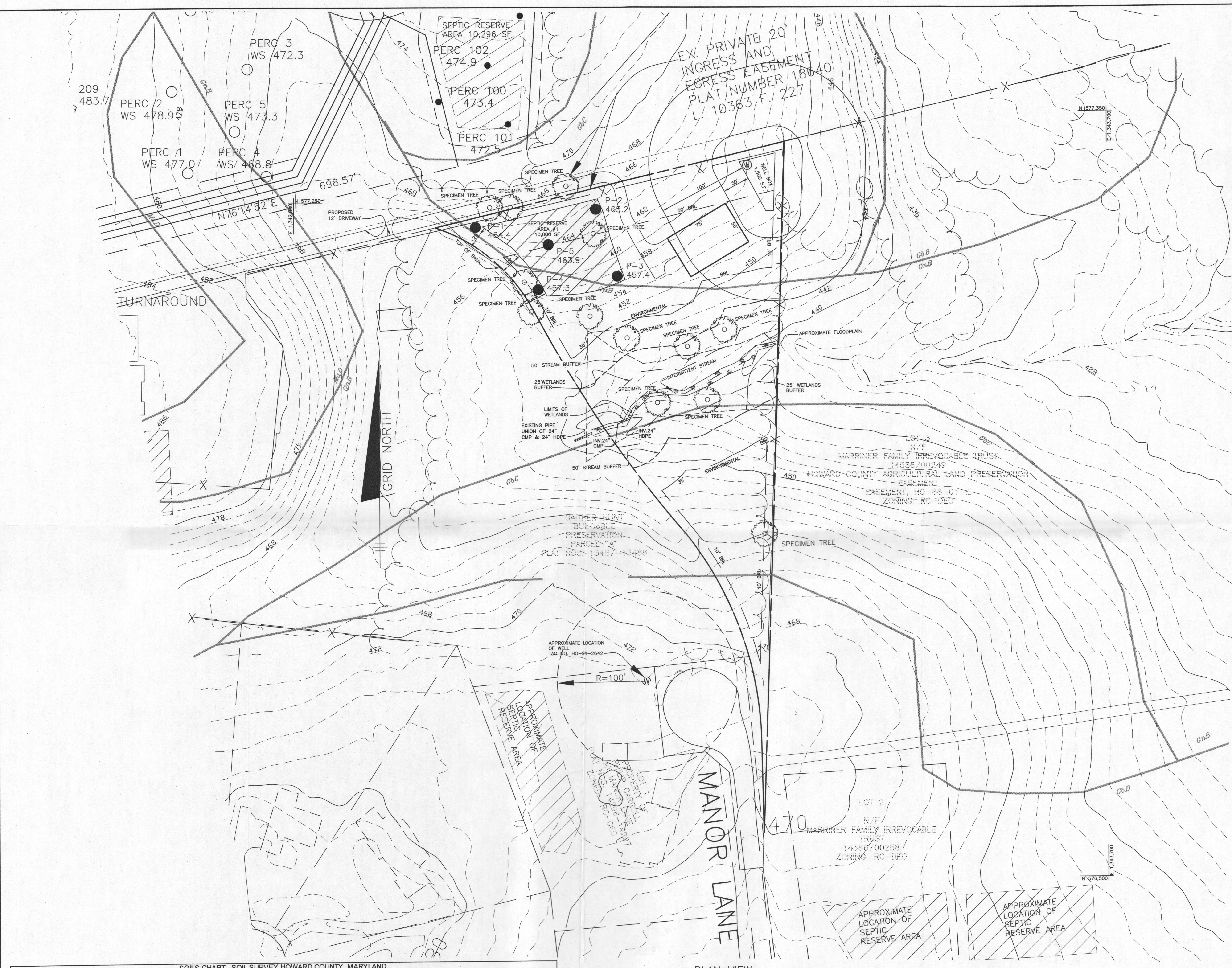
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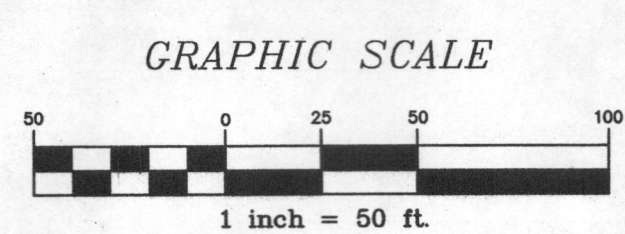
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TITLE: PERCOLATION CERTIFICATION PLAN			
DATE:	MARCH, 2015	BEI PROJ. NO.	2730
DESIGN:	JC	CHECK:	JC
DRAFT:	EDD	SCALE:	AS SHOWN
		SHEET	1 OF 1



SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

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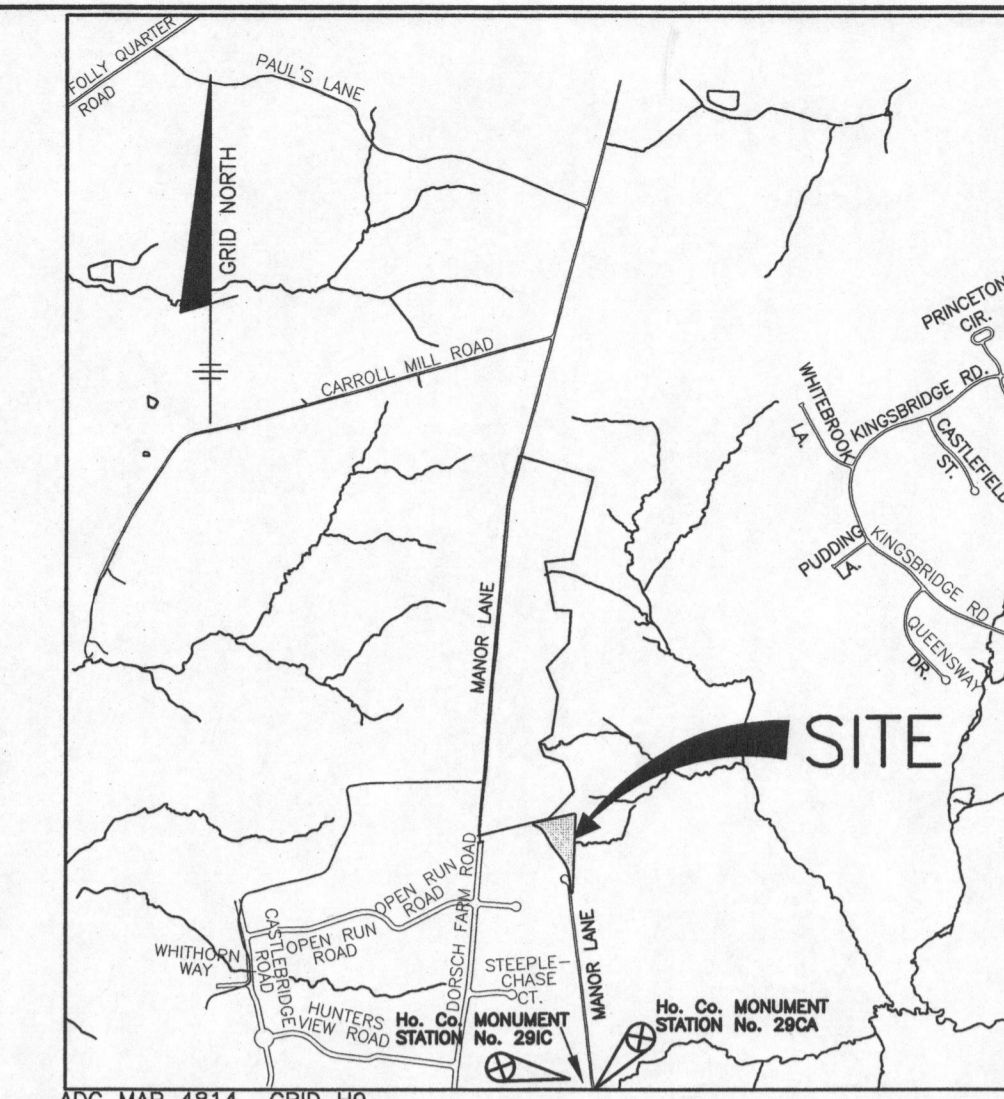


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APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

John Carney 3/22/16
PLAN PREPARER
JOHN CARNEY
FOR BENCHMARK ENGINEERING INC.

Paula... 4/7/2016
APPROVED FOR MANOR LANE
HOWARD COUNTY HEALTH OFFICER



VICINITY MAP
SCALE: 1" = 200'

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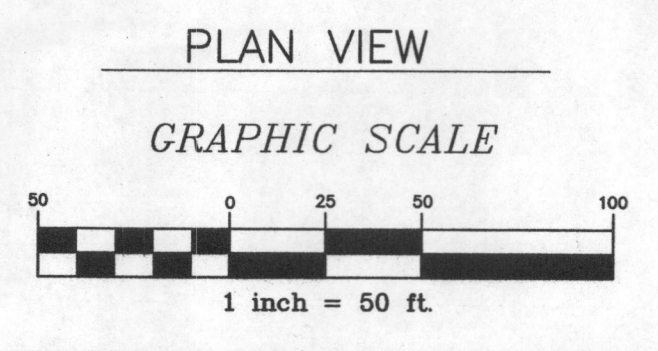
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SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

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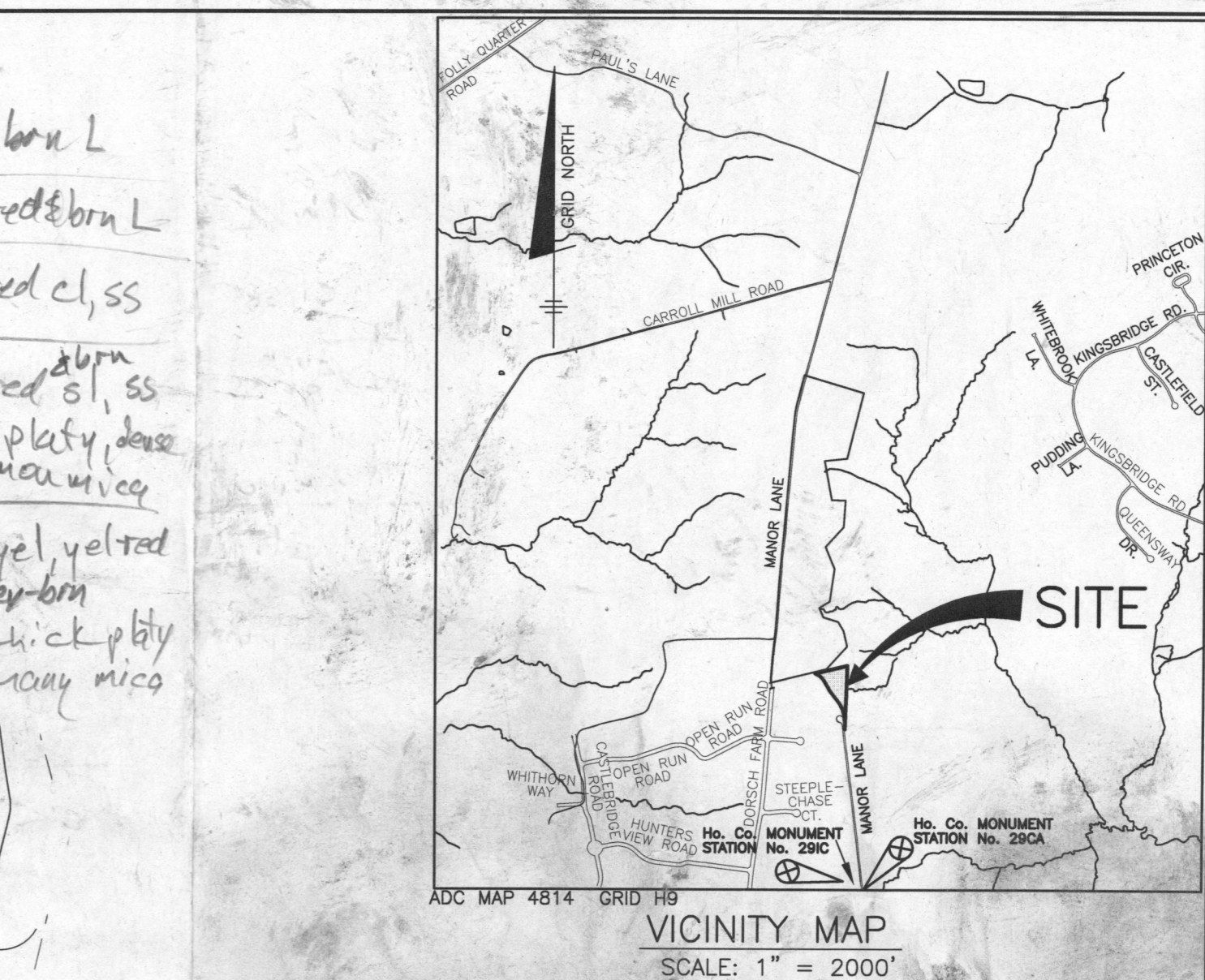
PLAN PREPARER
 JOHN CARNEY
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APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR MANOR LANE
 HOWARD COUNTY HEALTH OFFICER

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LOCATION:	TAX MAP: 23, GRID: 23 PARCEL 74 MANOR LANE, ELLICOTT CITY, MD 21042 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE:	PERCOLATION CERTIFICATION PLAN	
DATE:	MARCH, 2015	BEI PROJ. NO. 2730
DESIGN: JC	DRAFT: EDD	CHECK: JC
SCALE:	AS SHOWN	SHEET 1 OF 1



05' dk brn L
 11' yel-red & brn L
 22' yel-red cl ss
 yel-red sl, ss
 thick platy, dense
 common mica
 red-yel yel-red
 & grey-brn
 is, thick platy
 many mica

GENERAL NOTES

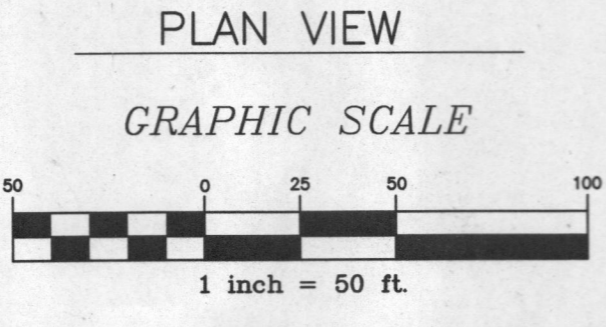
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- Gb.B. SOILS DELINEATION
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NAME	k-VALUE
8 PERCENT SLOPES	0.2
15 PERCENT SLOPES	0.2
AM, 0 TO 8 PERCENT SLOPES	0.37



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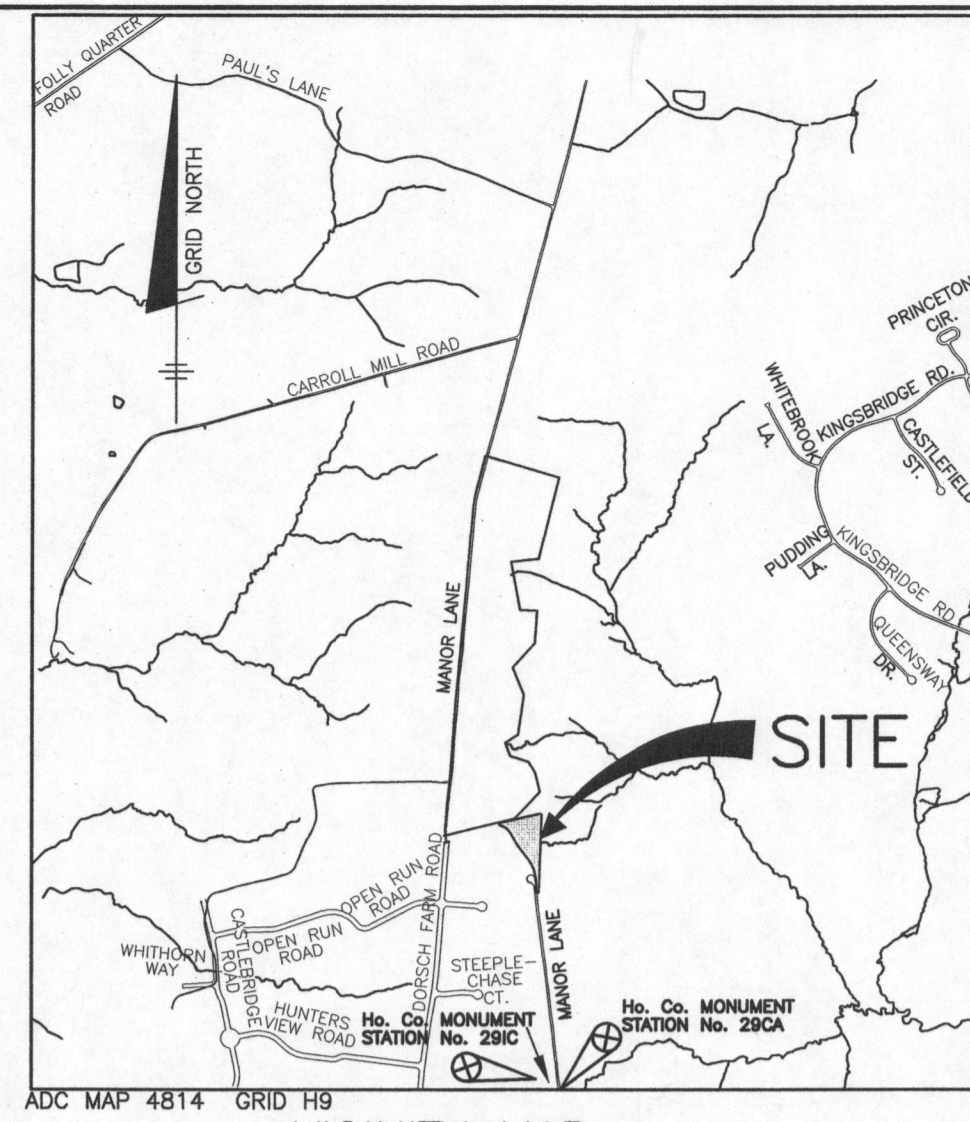
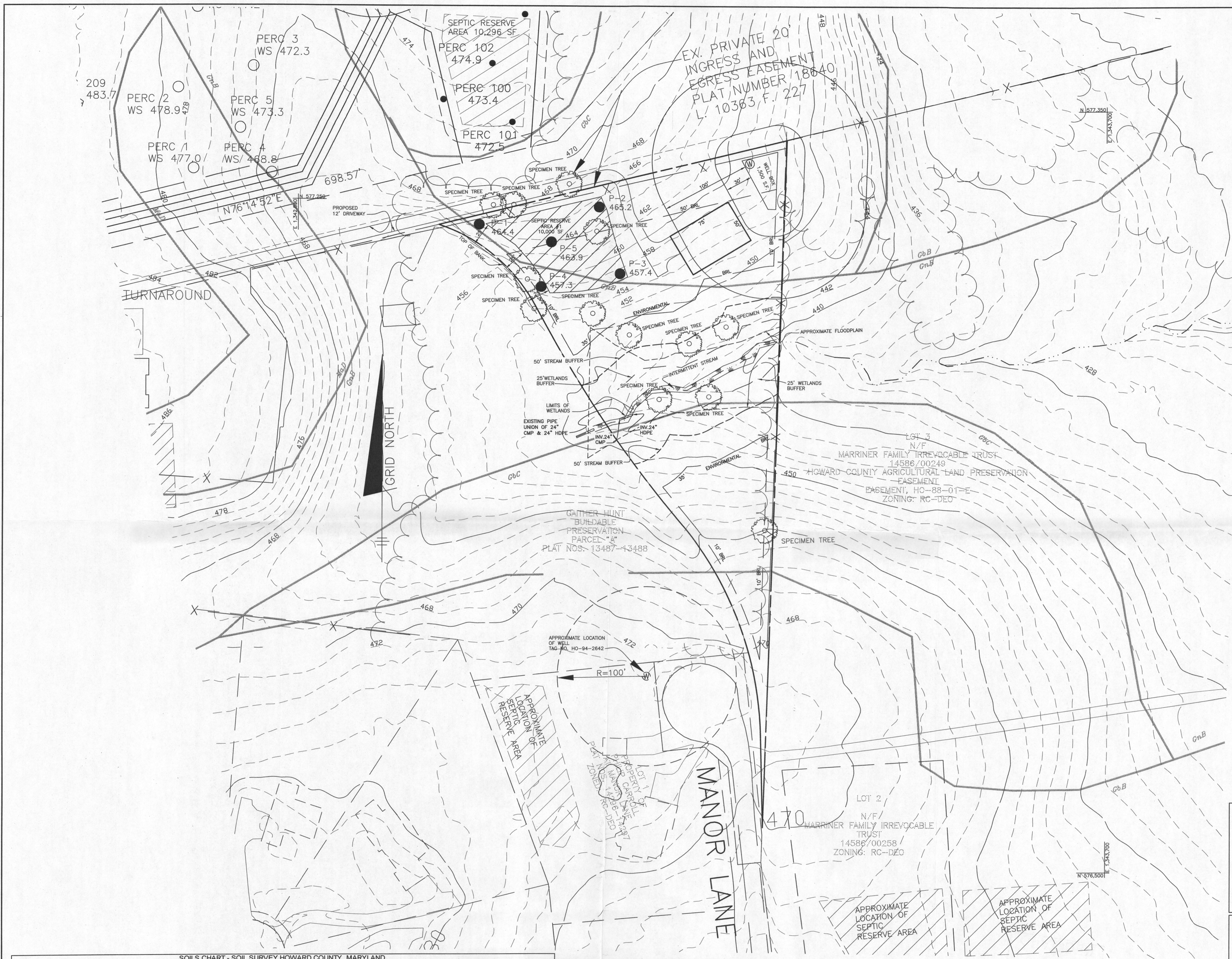
John Carney 1-21-16

PLAN PREPARER
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 FOR BENCHMARK ENGINEERING INC.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

OWNER:		MANOR LANE	
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DESIGN: JC		TITLE: PERCOLATION TEST PLAN	
DRAFT: EDD		DATE:	OCTOBER, 2015
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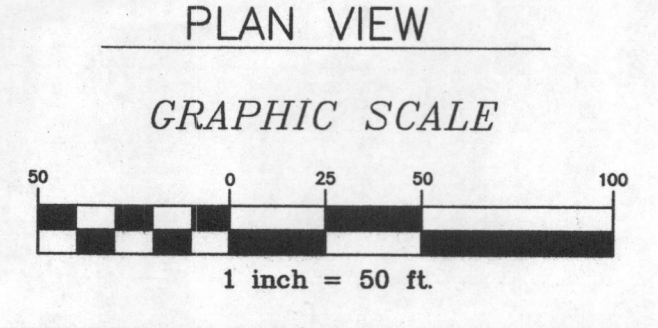
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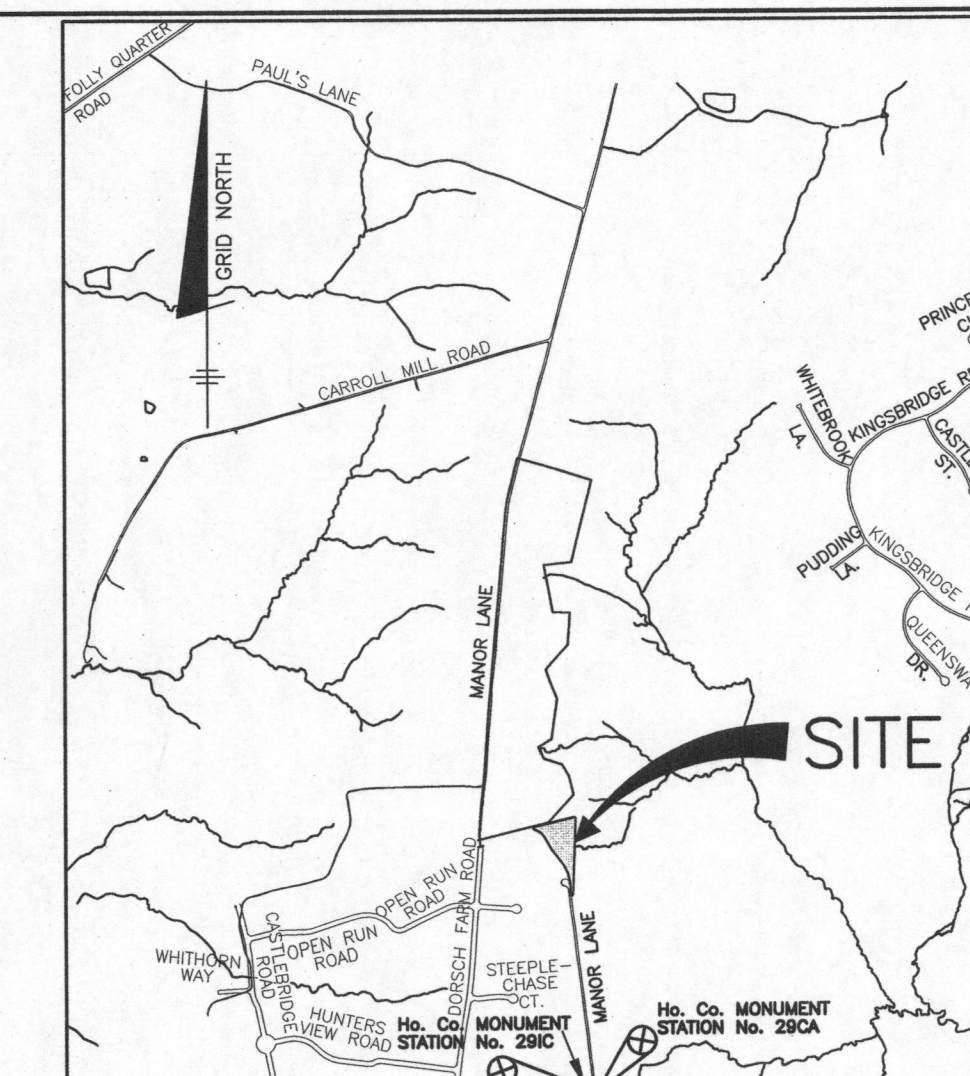
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LOCATION: TAX MAP: 23, GRID: 23
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 SECOND ELECTION DISTRICT
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TITLE: PERCOLATION CERTIFICATION PLAN

DATE: MARCH, 2015 BEI PROJ. NO. 2730

DESIGN: JC DRAFT: EDD CHECK: JC SCALE: AS SHOWN SHEET 1 OF 1



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- AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES CURRENTLY ACCEPTABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEPTIC SYSTEMS FOR ALL LOTS. THESE ADVANCED PRE-TREATMENT SYSTEMS SHALL BE LIMITED TO THE SYSTEMS THAT ARE LISTED IN THE WEBSITE FOR BAY RESTORATION FUND (BRF) BEST AVAILABLE TECHNOLOGY FOR REMOVING NITROGEN FROM ON-SITE SYSTEMS. A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SEPTIC SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT AND SYSTEM INSTALLATION PERMIT.

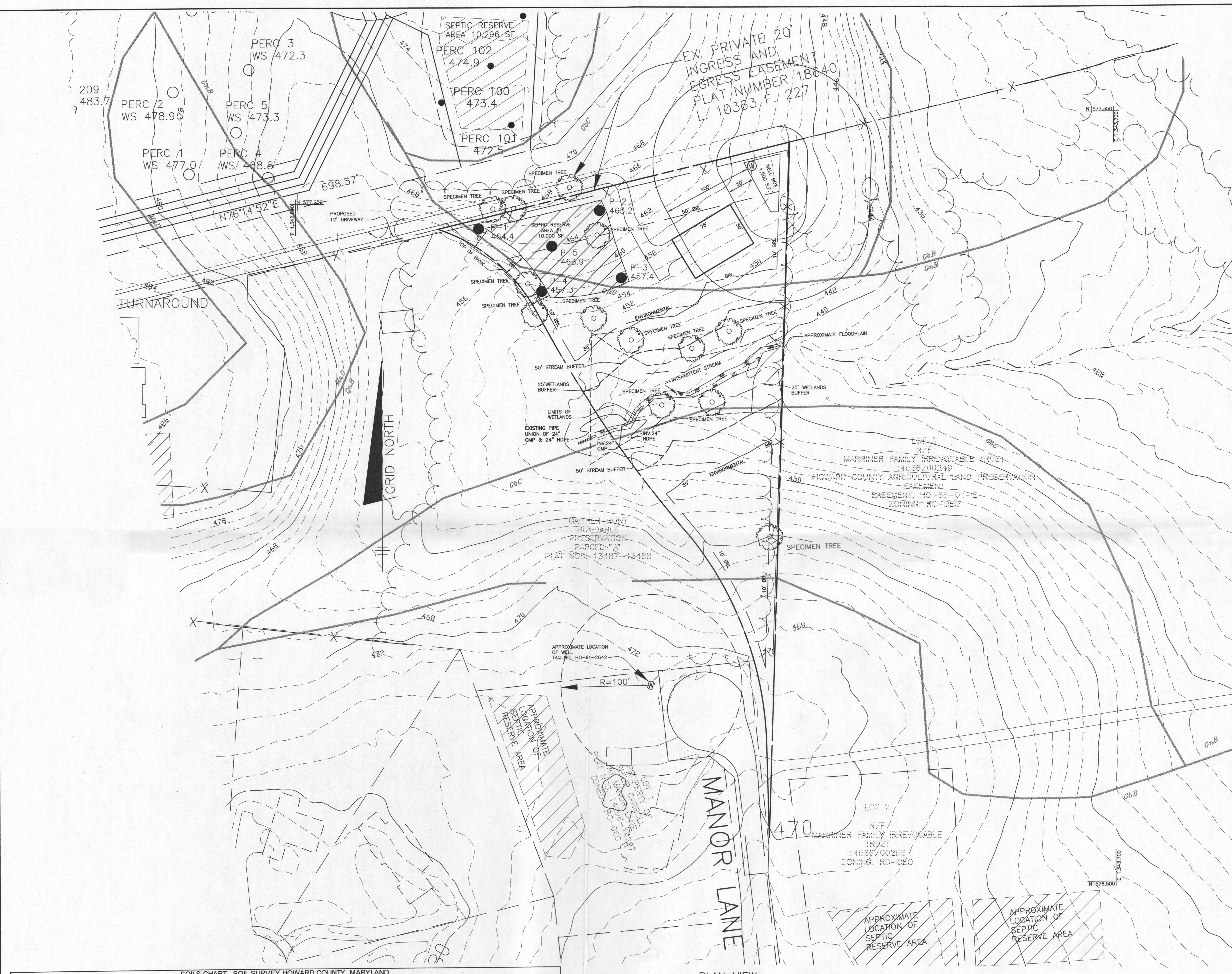
LEGEND

- EXISTING CONTOURS
- EXISTING TREELINE
- LIMIT OF SUBMISSION
- EXISTING SEPTIC AREA
- PROPOSED SEPTIC AREA
- WELL BOX
- SOILS DELINEATION
- PASSED PERC HOLE
- EXISTING PASSING PERC HOLE
- EXISTING FAILED PERC HOLE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE & SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 & FAX: 410-465-6844
WWW.BE-CIVILENGINEERING.COM

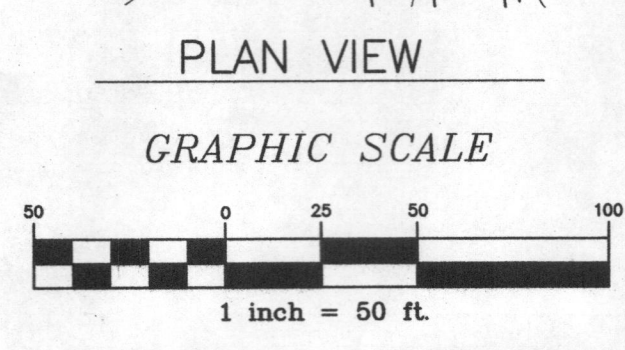
OWNER:		MANOR LANE	
SECURITY DEVELOPMENT PO BOX 417 ELLCOTT CITY, MARYLAND 21041 410-465-4244		LOCATION:	TAX MAP: 23, GRID: 23 PARCEL 74 MANOR LANE, ELLCOTT CITY, MD 21042 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: PERCOLATION CERTIFICATION PLAN			
DATE:	MARCH, 2015	BEI PROJ. NO.	2730
DESIGN:	JC	CHECK:	JC
DRAFT:	EDD	SCALE:	AS SHOWN
		SHEET	1 OF 1



SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	K-VALUE
GbB		B		GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	0.2
GbC		B		GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	0.2
GnB**	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37

* INDICATES HYDRIC SOILS
** HIGHLY ERODIBLE, K>0.35, AND/OR 15% OR GREATER SLOPES
TAKEN FROM THE NRCS WEB SOIL SURVEY, JULY 2014, MAP 17.



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.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

John Carney 3/22/16
PLAN PREPARER
JOHN CARNEY
FOR BENCHMARK ENGINEERING INC.

Paula... 4/7/2016
APPROVED FOR MANOR LANE
HOWARD COUNTY HEALTH OFFICER