

# APPLICATION

88 89

87

PERCOLATION TESTING

A. 518964-V

F. \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT 4TH

DATE 5/13/03  
5/22/03

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER EDGEWOOD FARM, INC.

ADDRESS 14919 ROXBURY RD GLENELG MD 21737 PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER TOLL BROTHERS, INC.

7164 COLUMBIA GATEWAY DR SUITE 230  
ADDRESS COLUMBIA, MD 21046 PHONE (410) 872-9105

PROPERTY LOCATION:

SUBDIVISION EDGEWOOD FARM LOT NO. ~~22~~ 25

ROAD AND DESCRIPTION ROXBURY RD

TAX MAP 21 PARCEL # 90

SIZE OF LOT 1 Ac ± TYPE BLDG. SINGLE FAMILY  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE  
FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO  
COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

Bruce R. O'Neil  
BRUCE R. O'NEIL (SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

SAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

OLD PENDING FURTHER TESTS \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

FINAL DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

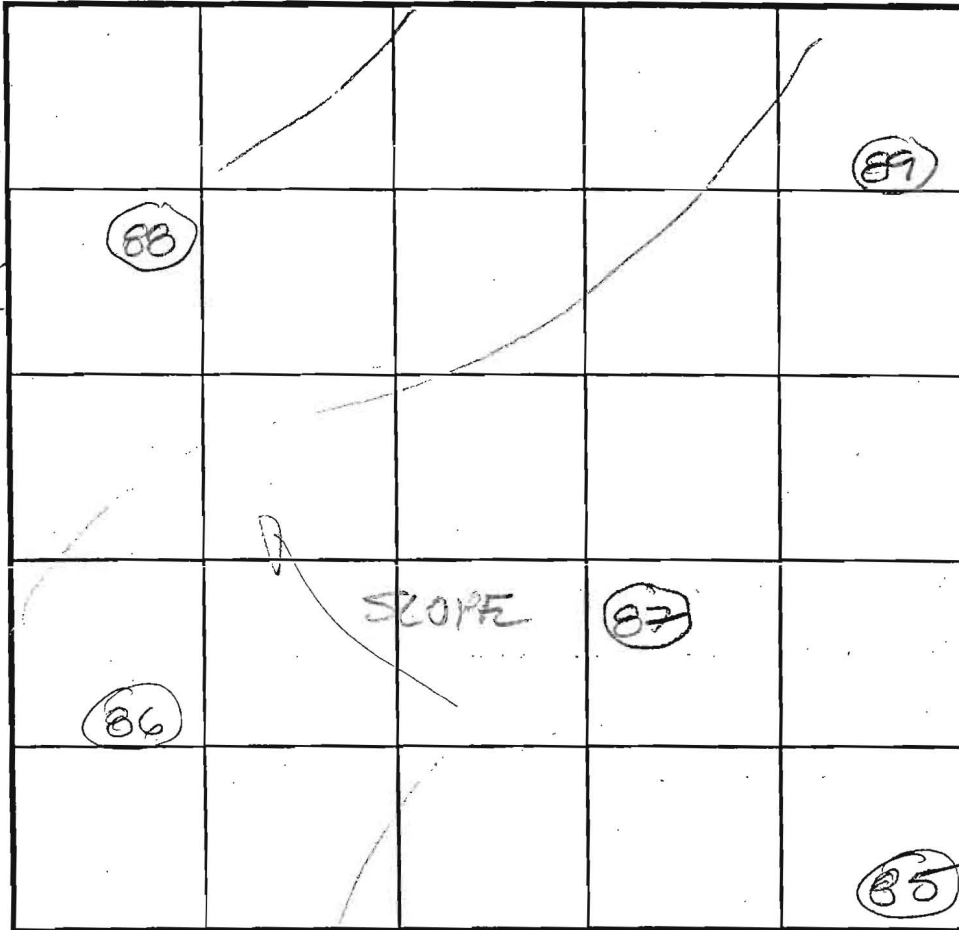
COUNTY #

SOIL PROFILE

0' **87**  
 DK Brown Loam 1/2'  
 Brown Cky Loam 2 1/2'  
 Red Siloam 15'  
 1590 Cobble Quartz

**89**  
 Brown Loam 1'  
 Brown Cky Loam 5'  
 Red Siloam 1590 Cobble Quartz

**88**  
 Brown Loam 1'  
 Red Brown Cky Loam 1/2'  
 Brown Red Brown Siloam Siloam



SOIL PROFILE

0' **86**  
 DK Brown Loam 1'  
 Red Siloam Loam 3'  
 Yellow Brown Siloam 12'

**85**  
 Brown Loam 1'  
 Brown Cky Loam 3 1/2'  
 Red Siloam 3'  
 Brown Siloam 13'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
7/13/03	89	7' / 13'	12:45	12:59	12:59	1:13	4mm	P
	87	5 1/2' / 13'	12:46	12:49	12:49	12:53	4mm	P
	88	5 1/2' / 13'	1:07	1:09	1:09	1:12	3mm	P
	86	5 1/2' / 12'	1:16	1:19	1:19	1:23	4mm	
	85	5 1/2' / 13'	12:54	12:58	12:58	1:02	4mm	

REMARKS \_\_\_\_\_

TYPE OF SOIL \_\_\_\_\_

TESTED BY FA ALSO PRESENT Bob Sturtevant  
Mark Johnson

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_



CURVE	RADIUS	ARC	DELTA	TANGENT	CHORD
51-52	325.00'	192.00'	33°50'52"	98.89'	N18°40'39"W 189.22'
120-61	50.00'	143.47'	16°42'08"	365.06'	N73°04'00"W 99.08'
62-63	520.00'	137.47'	15°08'49"	69.14'	N16°42'28"E 137.07'
64-119	120.00'	81.18'	38°45'35"	42.21'	S43°39'40"W 79.64'
82-179	275.00'	146.15'	30°26'58"	74.84'	S16°58'42"E 144.43'
84-192	265.00'	48.36'	10°27'22"	24.25'	S30°22'24"W 48.29'

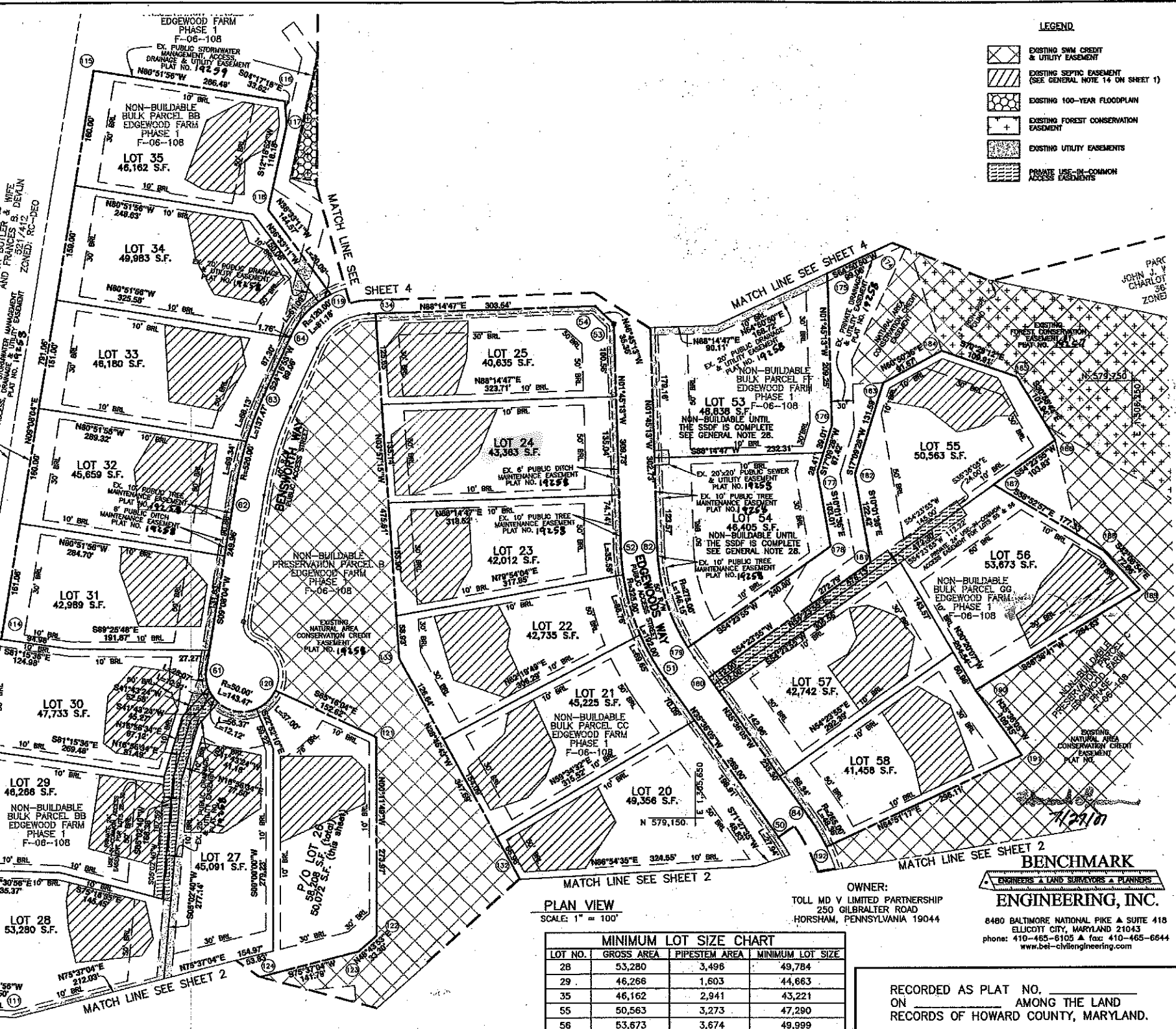
PLAT SEE A  
 TOLL MD V LIMITED PARTNERSHIP  
 PART 1 & 2  
 FROM PLAT  
 JUL 27, 2007

PARCEL 28  
 LEON BUTLER & WIFE  
 AND FRANCES B. DEVLIN  
 ZONED: RC-DEO

PARCEL 29  
 LEON BUTLER & WIFE  
 AND FRANCES B. DEVLIN  
 ZONED: RC-DEO

PARCEL 30  
 LEON BUTLER & WIFE  
 AND FRANCES B. DEVLIN  
 ZONED: RC-DEO

PARCEL 31  
 LEON BUTLER & WIFE  
 AND FRANCES B. DEVLIN  
 ZONED: RC-DEO



LEGEND

- EXISTING SWM CREST & UTILITY EASEMENT
- EXISTING SEPTIC EASEMENT (SEE GENERAL NOTE 14 ON SHEET 1)
- EXISTING 100-YEAR FLOODPLAIN
- EXISTING FOREST CONSERVATION EASEMENT
- EXISTING UTILITY EASEMENTS
- PRIVATE USE OR COMMON ACCESS EASEMENTS



THE REQUIREMENTS § 3-106, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

*Donald Mason* 5/8/07  
 DONALD A. MASON  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 MARYLAND NO. 21320

*William M. Hahn* 5/14/07  
 TOLL MD V LIMITED PARTNERSHIP  
 DATE:

AREA TABULATION CHART

TOTAL NUMBER OF LOTS AND/OR PARCELS TO BE RECORDED	21 and P/O 1
BUILDABLE	0
OPEN SPACE	0
BUILDABLE PRESERVATION PARCELS	0
NON-BUILDABLE PRESERVATION PARCELS	0
NON-BUILDABLE BULK PARCELS	0
TOTAL AREA OF LOTS AND/OR PARCELS TO BE RECORDED	23.44± AC.
BUILDABLE	N/A
OPEN SPACE	N/A
BUILDABLE PRESERVATION PARCELS	N/A
NON-BUILDABLE PRESERVATION PARCELS	N/A
NON-BUILDABLE BULK PARCELS	N/A
TOTAL AREA OF ROADWAY TO BE RECORDED (INCLUDING WIDENING STRIPS)	N/A
TOTAL AREA OF SUBDIVISION TO BE RECORDED	23.44± AC.

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
28	53,280	3,496	49,784
29	46,266	1,603	44,663
35	46,162	2,941	43,221
55	50,563	3,273	47,290
56	53,673	3,674	49,999

OWNER:  
 TOLL MD V LIMITED PARTNERSHIP  
 250 GILBALTER ROAD  
 HORSHAM, PENNSYLVANIA 19044

BENCHMARK  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
 6480 BALTIMORE NATIONAL PIKE & SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 phone: 410-465-6105 fax: 410-465-6644  
 www.bel-civilengineering.com

RECORDED AS PLAT NO. \_\_\_\_\_  
 ON \_\_\_\_\_ AMONG THE LAND  
 RECORDS OF HOWARD COUNTY, MARYLAND.

APPROVED: FOR PRIVATE WATER, PRIVATE SEWER AND SHARED SEPTIC SYSTEMS, USE OF THE SHARED SEWERAGE SYSTEM IS IN CONFORMANCE WITH THE COUNTY PLAN, HOWARD COUNTY HEALTH DEPARTMENT

*Peter Beilenson* MD 6/8/2007  
 HOWARD COUNTY HEALTH OFFICER  
 DATE: 5/17/07

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*William M. Hahn* 7/6/07  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 7/6/07

*Perke K. Ayer* 2/26/07  
 DIRECTOR  
 DATE: 2/26/07

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE INFORMATION SHOWN HEREON IS CORRECT, THAT IT IS ALL OF LAND ACQUIRED BY TOLL MD V LIMITED PARTNERSHIP FROM EDGEWOOD FARM, INC. BY DEED DATED MAY 4, 2007 AND RECORDED IN LIBER 10477 AT FOLIO 461 AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO ACCEPTANCE OF THE ROADS BY HOWARD COUNTY, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

MDR PLAT NO. 19268  
 RECEIVED JUL 27 2007  
 FOR RECORD

*Donald Mason* 5/8/07  
 DONALD A. MASON  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 MARYLAND NO. 21320  
 DATE: 5/8/07

OWNER'S CERTIFICATE

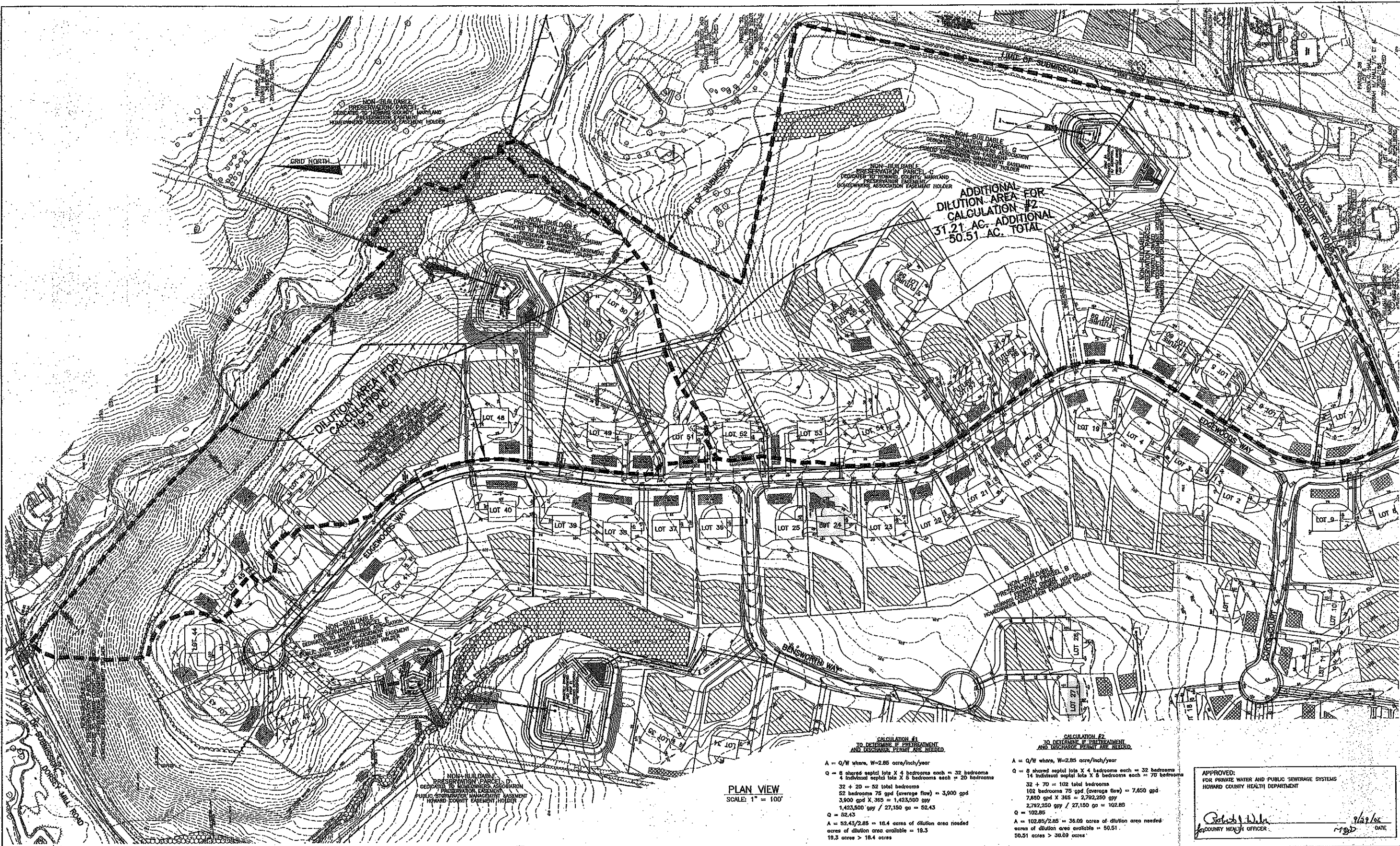
TOLL MD V LIMITED PARTNERSHIP, OWNER OF THE PROPERTY SHOWN HEREON, HEREBY ADOPTS THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISHES THE MINIMUM BUILDING RESTRICTION LINES AND GRANTS UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS, (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES, AND OTHER MUNICIPAL UTILITIES AND SERVICES, IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY, AND THE SPECIFIC EASEMENT AREAS SHOWN HEREON, (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, FLOODPLAINS AND OPEN SPACE WHERE APPLICABLE, AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANTS THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREETS AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE, (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE, AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHTS-OF-WAY, WITNESS OUR HANDS THIS 14th DAY OF MAY, 2007.

*William M. Hahn* 5/14/07  
 TOLL MD V LIMITED PARTNERSHIP  
 DATE: 5/14/07

EDGEWOOD FARM  
 PHASE 2  
 LOTS 8 - 60 AND  
 NON-BUILDABLE PRESERVATION PARCELS 'H' AND 'I'  
 A RESUBDIVISION OF  
 NON-BUILDABLE BULK PARCELS 'AA'-'HH'  
 PLAT NOS. 19255 - 19261  
 SP-05-014 F-06-108 RE-06-10

FOURTH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
 TAX MAP: 21  
 GRID: 22  
 PARCEL: 90  
 ZONED: RC-DEO

SCALE: AS SHOWN  
 DATE: MAY, 2007  
 SHEET: 3 OF 4



DILUTION AREA FOR CALCULATION #1

ADDITIONAL DILUTION AREA FOR CALCULATION #2  
31.21 AC. ADDITIONAL  
50.51 AC. TOTAL

**CALCULATION #1**  
TO DETERMINE IF PRETREATMENT AND DISCHARGE PERMIT ARE NEEDED

$A = Q/W$  where,  $W = 2.85$  acres/inch/year

$Q = 8$  shared septal lots X 4 bedrooms each = 32 bedrooms  
4 individual septal lots X 5 bedrooms each = 20 bedrooms  
32 + 20 = 52 total bedrooms  
52 bedrooms 75 gpd (average flow) = 3,900 gpd  
3,900 gpd X 365 = 1,423,500 gpy  
1,423,500 gpy / 27,150 ga = 52.43  
 $Q = 52.43$   
 $A = 52.43 / 2.85 = 18.4$  acres of dilution area needed  
acres of dilution area available = 19.3  
19.3 acres > 18.4 acres

**CALCULATION #2**  
TO DETERMINE IF PRETREATMENT AND DISCHARGE PERMIT ARE NEEDED

$A = Q/W$  where,  $W = 2.85$  acres/inch/year

$Q = 8$  shared septal lots X 4 bedrooms each = 32 bedrooms  
14 individual septal lots X 5 bedrooms each = 70 bedrooms  
32 + 70 = 102 total bedrooms  
102 bedrooms 75 gpd (average flow) = 7,650 gpd  
7,650 gpd X 365 = 2,792,250 gpy  
2,792,250 gpy / 27,150 ga = 102.85  
 $Q = 102.85$   
 $A = 102.85 / 2.85 = 36.09$  acres of dilution area needed  
acres of dilution area available = 50.51  
50.51 acres > 36.09 acres

PLAN VIEW  
SCALE: 1" = 100'

APPROVED:  
FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]*  
COUNTY HEALTH OFFICER

9/29/06  
DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

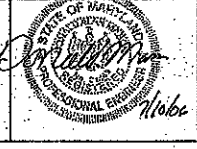
*[Signature]* 8-10-06  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]* 7/26/07  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
ENGINEERING, INC.

8400 BALTIMORE NATIONAL PIKE A SUITE 410  
ELICOTT CITY, MARYLAND 21043  
PHONE: 410-485-8105 FAX: 410-485-8844



DESIGN: DBT					
DRAFT: DBT					
CHK: DAM					
DATE: 7/07/06	BY: NO.	REVISIONS	DATE	600-SCALE MAP NO. 50	BLOCK 3

PLAN VIEW OF DILUTION AREA

**EDGEWOOD FARM**  
SHARED SEPTIC PLAN FOR LOTS  
LOTS 42-46, 49, 53 AND 54  
FOURTH ELECTION DISTRICT  
CONTRACT NO. 50-4309-D

SCALE:  
AS SHOWN

SHEET NO.  
6 OF 6