

**Bureau of Environmental Health**  
 8930 Stanford Boulevard, Columbia, MD 21045  
 Main: 410-313-2640 | Fax: 410-313-2648  
 TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 11-4-15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 557445

APPROVAL DATE: 11/25/2015 **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 14549 Edgewoods Way

SUBDIVISION: Edgewood Farm LOT: 36 TAX ID: \_\_\_\_\_

CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kevin@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:  MDE  MANUFACTURER:

PROPERTY OWNER: Toll MD V LP EMAIL: \_\_\_\_\_

OWNER ADDRESS: 7164 Columbia Gateway Drive, Columbia, MD 21046 PHONE: 410-872-9105

BAT UNIT MODEL: Norweco TNTLP 500 PUMP SIZE: \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: \_\_\_\_\_ DATE RECORDED: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: \_\_\_\_\_

TRENCHES:	LINEAR FEET REQUIRED: <u>172</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5'</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: Use 2 86' trenches = 172'  
2x86' Trenches

ISSUED BY: Hank Oswald ISSUE DATE: 11-17-15 EXPIRATION DATE: 11-4-16

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM  
 ELECTRICAL PERMIT ISSUED E 15006121
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.  
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.  
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE

See As-Built Drawing  
On Separate Sheet

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH 3 INLET 4' BOTTOM 7.5'

NUMBER OF TRENCHES 2

TOTAL LENGTH 165'

ABSORPTION AREA 495 + SIDEWALL

DISTRIBUTION BOX LEVEL YES

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL Yes

MANUFACTURER Norweco

CAPACITY 1300 GAL

SEAM LOC Top

TANK LID DEPTH 25'-4'

BAFFLES No

BAFFLE FILTER No

MANHOLE LOC Front, Middle, Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED N/A

DATE ON LID Dry

~~PUMP/SEPTIC TANK LEVEL N/A~~

~~MANUFACTURER \_\_\_\_\_~~

~~CAPACITY \_\_\_\_\_ GAL~~

~~SEAM LOC \_\_\_\_\_~~

~~TANK LID DEPTH \_\_\_\_\_~~

~~BAFFLES \_\_\_\_\_~~

~~BAFFLE FILTER \_\_\_\_\_~~

~~MANHOLE LOC \_\_\_\_\_~~

~~6" PORT LOC \_\_\_\_\_~~

~~WATERTIGHT TEST \_\_\_\_\_~~

~~SLOTTED \_\_\_\_\_~~

~~DATE ON LID \_\_\_\_\_~~

PRE-CONSTRUCTION:

11/20/2015 Layout done. Made trenches slightly shallower because the adjacent lot was very rocky. (BB)

INSTALLATION: 11/23/2015 Tank set, Dist. box set, Plumbing installed. (BB)

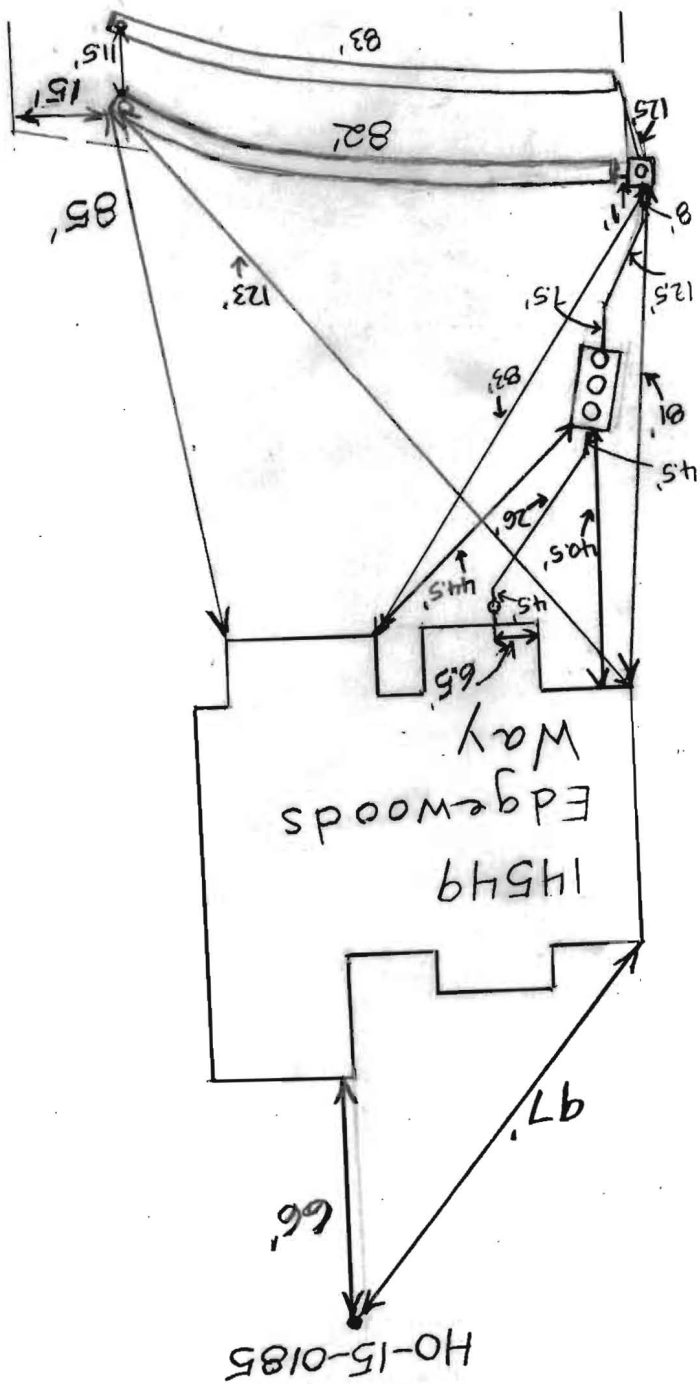
11/24/15 Second trench finished + left open. 3' wide, 3.5' to stone. Levelled speed levelers on D-box. Risers on BAT tank are currently flush with grade and need to be extended by 6" (notified Eagle's). Need BAT startup certification (C) 11/25/2015 Received BAT certification from Norweco representative. (BB)

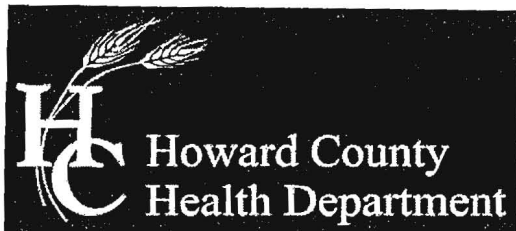
FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

11/25/2015





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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

**OPERATION AND MAINTENANCE AGREEMENT  
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM  
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 3<sup>rd</sup> day of November, 2015, among Vishnu Oudiyala and Toll Brothers, Inc., hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 14549 Edgewood Way, in the 5<sup>th</sup> Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 10677 Folio 461.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is ~~ECO POD EBONCA~~

NOW, THEREFORE, the parties hereto agree as follows:

Norweco System Singular 500 TWT

A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.

B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.

D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.

E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Beil Nipon 11/3/2015  
Howard County Health Department

[Signature] 11/3/15  
Owner #1 Signature Date

David L. Erat  
Owner #1 Print Name

[Signature] 11-3-15  
Buyer #1 Signature Date

VISHNU DUDYALA  
Buyer #1 Print Name

\_\_\_\_\_  
Owner#2 Signature Date

\_\_\_\_\_  
Owner #2 Print Name

\_\_\_\_\_  
Buyer #2 Signature Date

\_\_\_\_\_  
Buyer #2 Print Name

36 - 14549 Edgewoods way

Clerk of the Circuit Court for  
Howard County  
Land Records/Licensing

The Thomas Dorsey Building  
9250 Bendix Road  
Columbia, MD 21045  
410-313-5850

=====  
LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: Dudyala/Toll  
Brothers Inc  
Reference/Control #: 282

LR - Agreement Surcharge  
1x 40.00 40.00

=====  
SubTotal: 60.00  
Total: 60.00

=====  
REV-Check-BOA 60.00  
Number : 23554

11/03/2015 15:01 CC13-DS  
#5106770 /1246/109  
~ Thank you for visiting us today~

3 - 14917 Victory Lane

Clerk of the Circuit Court for  
Howard County  
Land Records/Licensing

The Thomas Dorsey Building  
9250 Bendix Road  
Columbia, MD 21045  
410-313-5850

=====  
LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: Toll Brothers Inc  
Reference/Control #: 283

LR - Agreement Surcharge  
1x 40.00 40.00

=====  
SubTotal: 60.00  
Total: 60.00

=====  
REV-Check-BOA 60.00  
Number : 23554

11/03/2015 15:02 CC13-DS  
#5106817 /1246/109  
~ Thank you for visiting us today~

## Back River Pre-Cast, LLC

PO BOX 329  
Glyndon, MD 21071  
Phone # 410-833-3394  
Fax # 410-833-4116

### Letter of Certification

This is to certify that the Norweco Singularair TNT 600 GPD Septic Tank installed at 14549 Edgewoods Way, Glenelg, MD 21737 November 23, 2015 was installed according to the manufacture's specifications.

Installer: Jake Sizemore

Property Owner: Triadelphia Crossing Preservation, LLC

Permit #



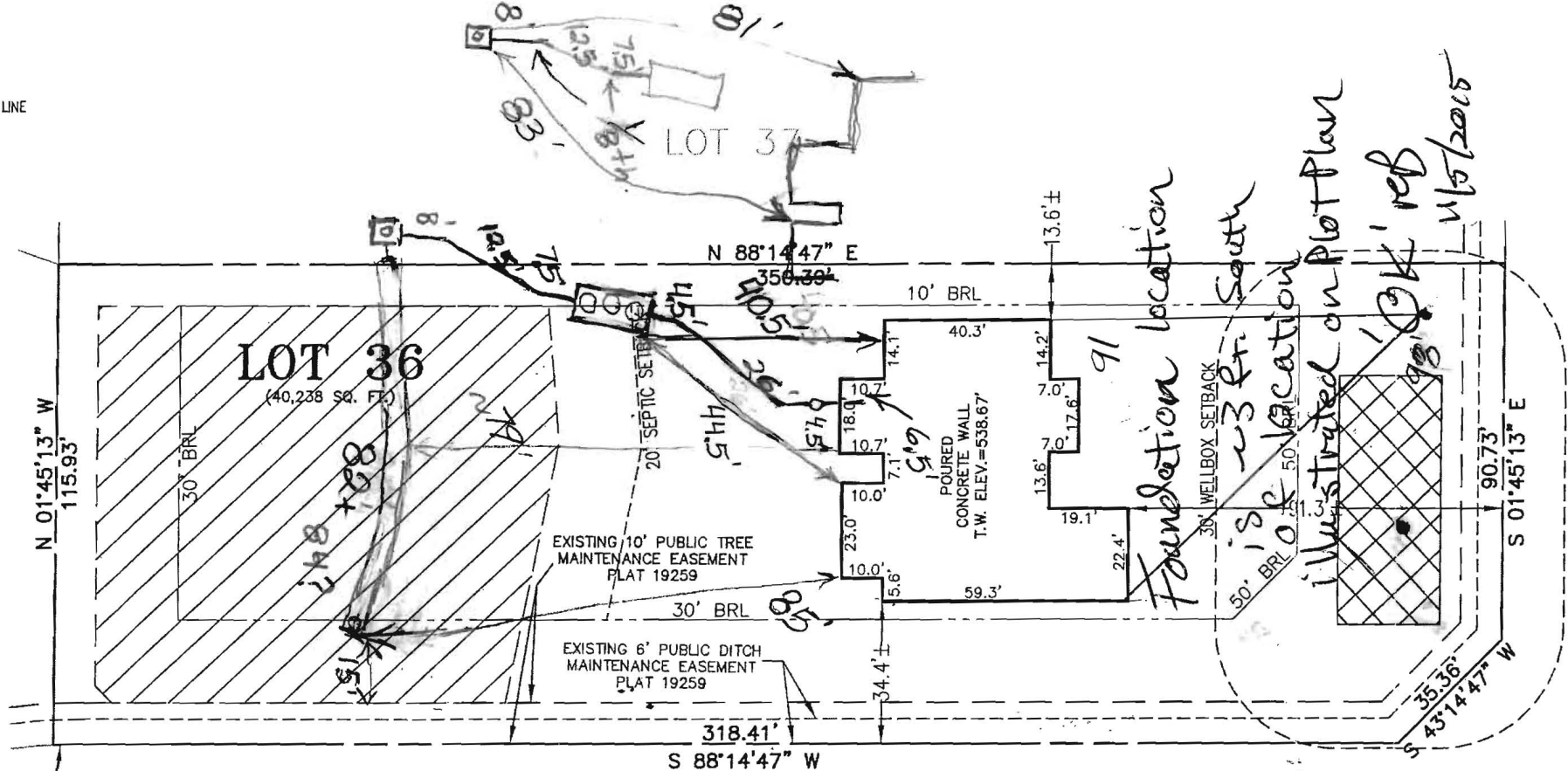
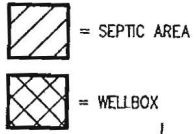
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MATTHEW GECKLE

Vice-President

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/17.

**LEGEND:**  
 TW TOP OF WALL  
 ELEV ELEVATION  
 BRL BUILDING RESTRICTION LINE



ADDRESS: 14302 BENS WORTH WAY  
 GLENELG, MD 21737

R=120.00'  
 A=6.98'

BENS WORTH WAY

EDGEWOODS WAY

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN  
 SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

**SURVEYOR'S CERTIFICATE**

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

SIGNATURE: MICHAEL JOE BOYCE  
 MD. LIC NO. 21328  
 DATE 10-01-15

WALL CHECK

LOT 36  
**EDGEWOOD FARM**  
 LIBER 10677, FOLIO 461  
 PLAT No. 19268  
 TAX No. 04-372646  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND



Land Planning  
 Engineering  
 Land Surveying

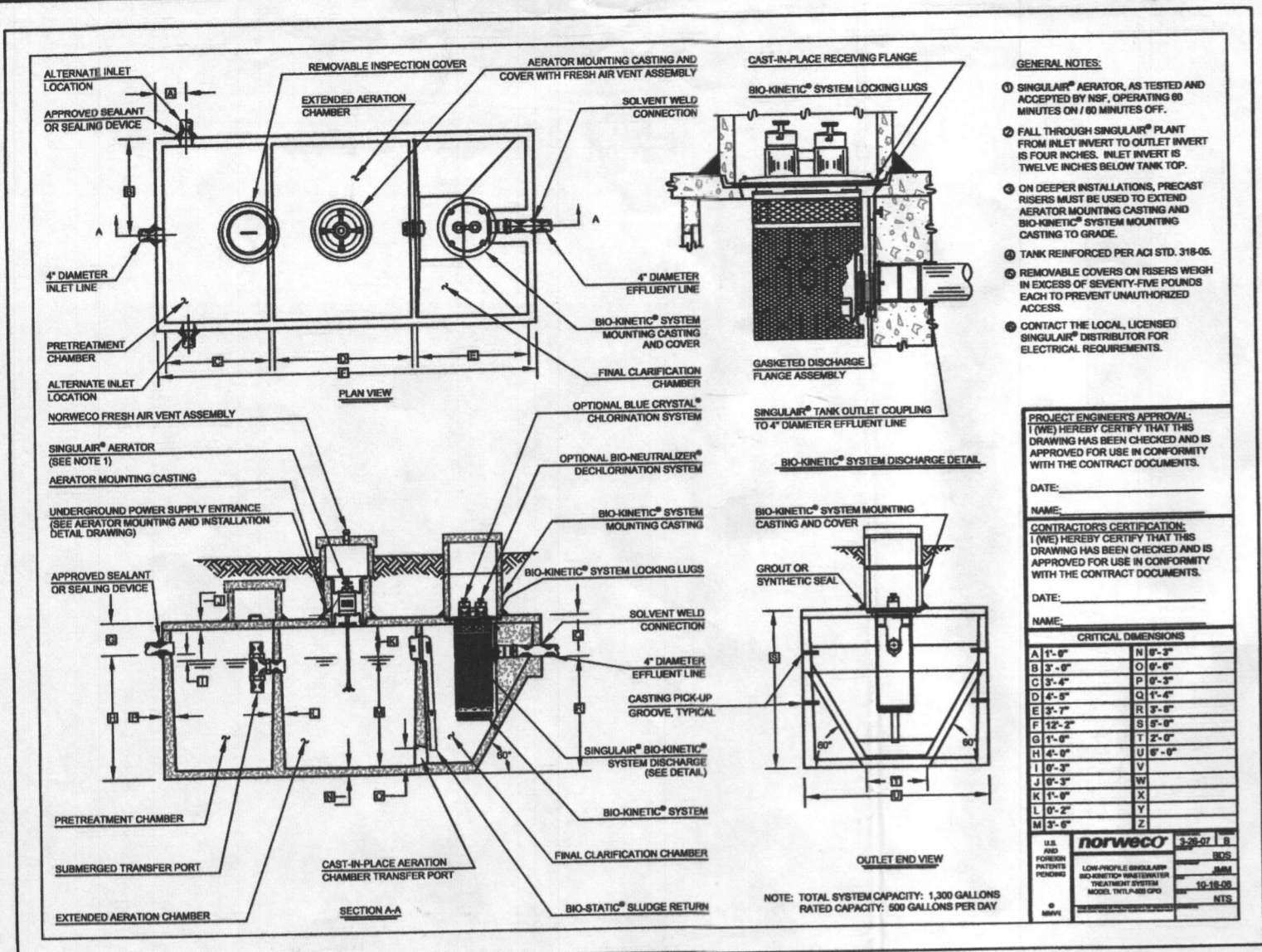
ESE Consultants, Inc.  
 7164 Columbia Gateway Dr.  
 Suite 230  
 Columbia, MD 21046  
 Tel: 410-872-9105  
 Fax: 410-872-4870

DATE: 10/01/15  
 CHK'D: M.J.B.

SCALE: 1"=30'  
 JOB NO: 1498

FILE: WC LOT 36  
 DRAWN: V.X.P.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/17.



- GENERAL NOTES:**
- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON 60 MINUTES OFF.
  - FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
  - ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
  - TANK REINFORCED PER A.S.I. STD. 318-05.
  - REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
  - CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

**PROJECT ENGINEER'S APPROVAL:**  
I HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: \_\_\_\_\_  
NAME: \_\_\_\_\_

**CONTRACTOR'S CERTIFICATION:**  
I HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: \_\_\_\_\_  
NAME: \_\_\_\_\_

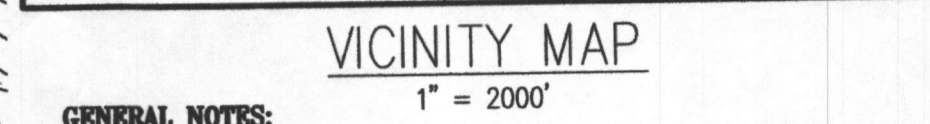
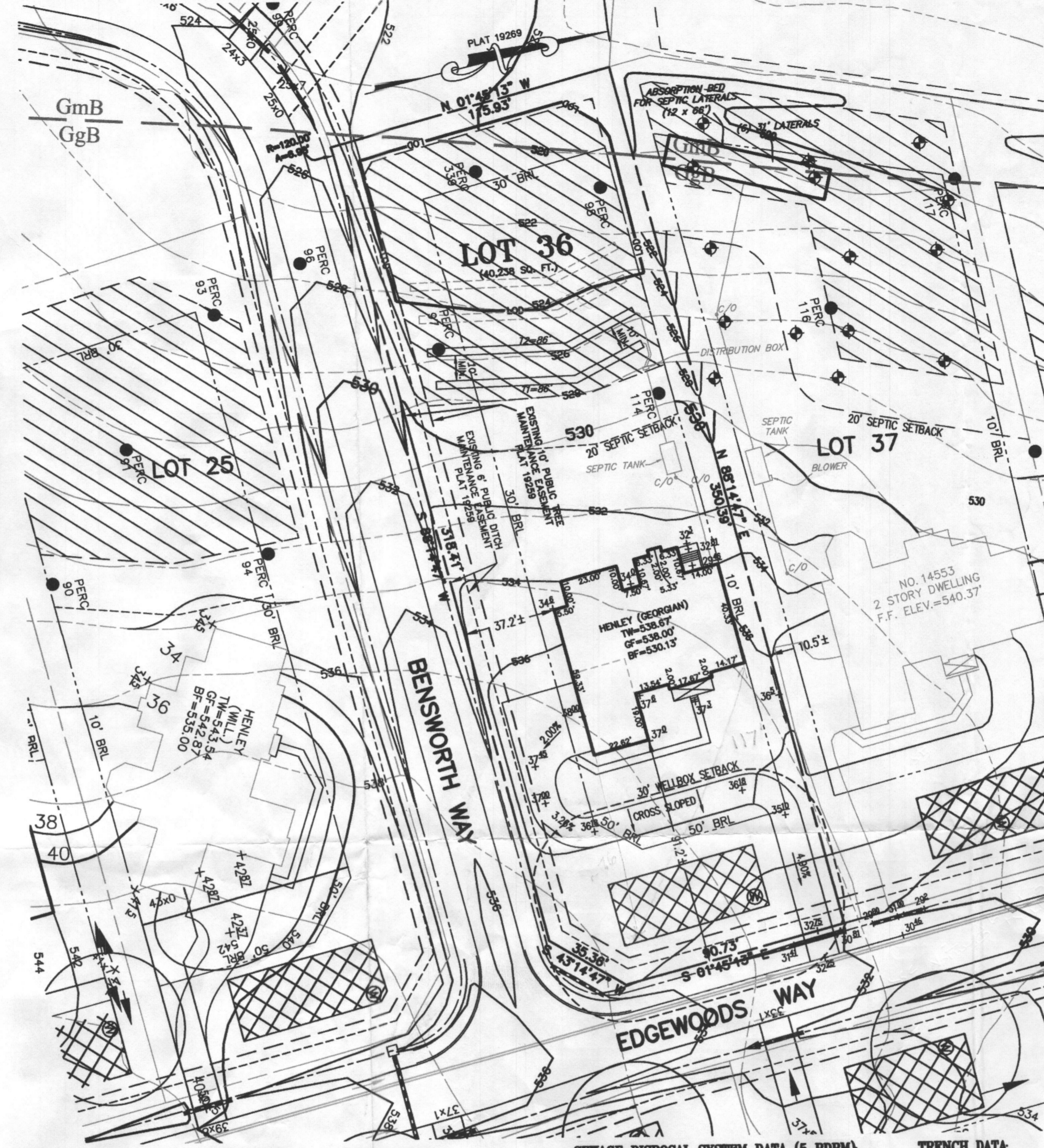
**CRITICAL DIMENSIONS**

A	10'-0"	10'-0"
B	12'-0"	12'-0"
C	12'-0"	12'-0"
D	12'-0"	12'-0"
E	12'-0"	12'-0"
F	12'-0"	12'-0"
G	12'-0"	12'-0"
H	12'-0"	12'-0"
I	12'-0"	12'-0"
J	12'-0"	12'-0"
K	12'-0"	12'-0"
L	12'-0"	12'-0"
M	12'-0"	12'-0"
N	12'-0"	12'-0"
O	12'-0"	12'-0"
P	12'-0"	12'-0"
Q	12'-0"	12'-0"
R	12'-0"	12'-0"
S	12'-0"	12'-0"
T	12'-0"	12'-0"
U	12'-0"	12'-0"
V	12'-0"	12'-0"
W	12'-0"	12'-0"
X	12'-0"	12'-0"
Y	12'-0"	12'-0"
Z	12'-0"	12'-0"

- LEGEND:**
- PERC TEST LOCATION
  - ⊙ WELL LOCATION
  - - - LIMITS OF DISTURBANCE
  - SOIL TYPE LINE
  - GmB GLENELG LOAM, 3 TO 8 PERCENT SLOPES
  - GmS GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES
  - TW TOP OF WALL
  - GF GARAGE FLOOR
  - BF BASEMENT FLOOR
  - BRL BUILDING RESTRICTION LINE

- HOUSE OPTIONS:**
- TYPE: HENLEY (GEORGIAN)
  - DAYLIGHT BASEMENT OPTION No. 018
  - EXPANDED FAMILY ROOM/GREAT ROOM OPTION No. 023
  - ADD'L 1' TO HEIGHT OF BSMT FOUNDATION WALLS OPTION No. 070
  - SOLARIUM ADDITION OPTION No. 501

Approved Septic System Plan  
Howard County Health Department  
Mark Oswald 7/21/15  
Signature Date



- GENERAL NOTES:**
- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
  - PLAT REFERENCE: PLAT No. 19269.
  - THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY ESE. DATED 4/27/11.
  - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE ESE CONSULTANTS INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
  - THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410-313-1881) AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
  - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
  - TOTAL LIMIT OF DISTURBANCE: 33,335 SQ. FT. / 0.77 AC ±
  - STORMWATER MANAGEMENT PER PLAN F-06-108.
  - ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
  - DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (ESE) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
  - THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
  - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
  - THESE AREAS DESIGNATE A PRIVATE SEWAGE EASEMENT 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 UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
  - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
  - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  - UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS FOR ALL PROPOSED STRUCTURES AND/OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
  - THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-06-108.
  - A STANDARD SEDIMENT CONTROL PLAN MAY BE USED FOR DEVELOPMENT OF THIS LOT. REFERENCE GRADING PLAN GP-14-031, DATED 10/31/13.
  - THE EXISTING WELL HO-95-0791 ON THIS LOT IS TO BE ABANDONED PER THE APPROVED PERCOLATION CERTIFICATION REVISION DATED 05/21/14. NEW WELL TO BE DRILLED AND LOCATED AS SHOWN HEREON.
  - BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
  - CULVERT FOR DRIVEWAY IS A 15" CORRUGATED METAL PIPE (CMP) PER NOTE 30 AS SHOWN ON SHEET LABELED "ROADS, STORMWATER MANAGEMENT AND STORM DRAIN PLANS" IN THE F-06-108.

- SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET COVER.
  - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
  - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  - THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  - WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE), IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
  - ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY.
  - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

**SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):**

NORWECO SINGULAR T11P-500 (3 CHAMBER SYSTEM)

PROPOSED INVERT AT FOUNDATION WALL: 528.1'

1. EX. GRADE OVER TANK: 530.9'  
PROPOSED GRADE OVER TANK: 530.8'  
INVERT IN: 527.3' INVERT OUT: 527.0'

2. DISTRIBUTION BOX:  
EXISTING GRADE OVER TANK: 527.8'  
PROPOSED GRADE OVER TANK: 527.8'  
INVERT IN: 526.4' INVERT OUT: 526.1'

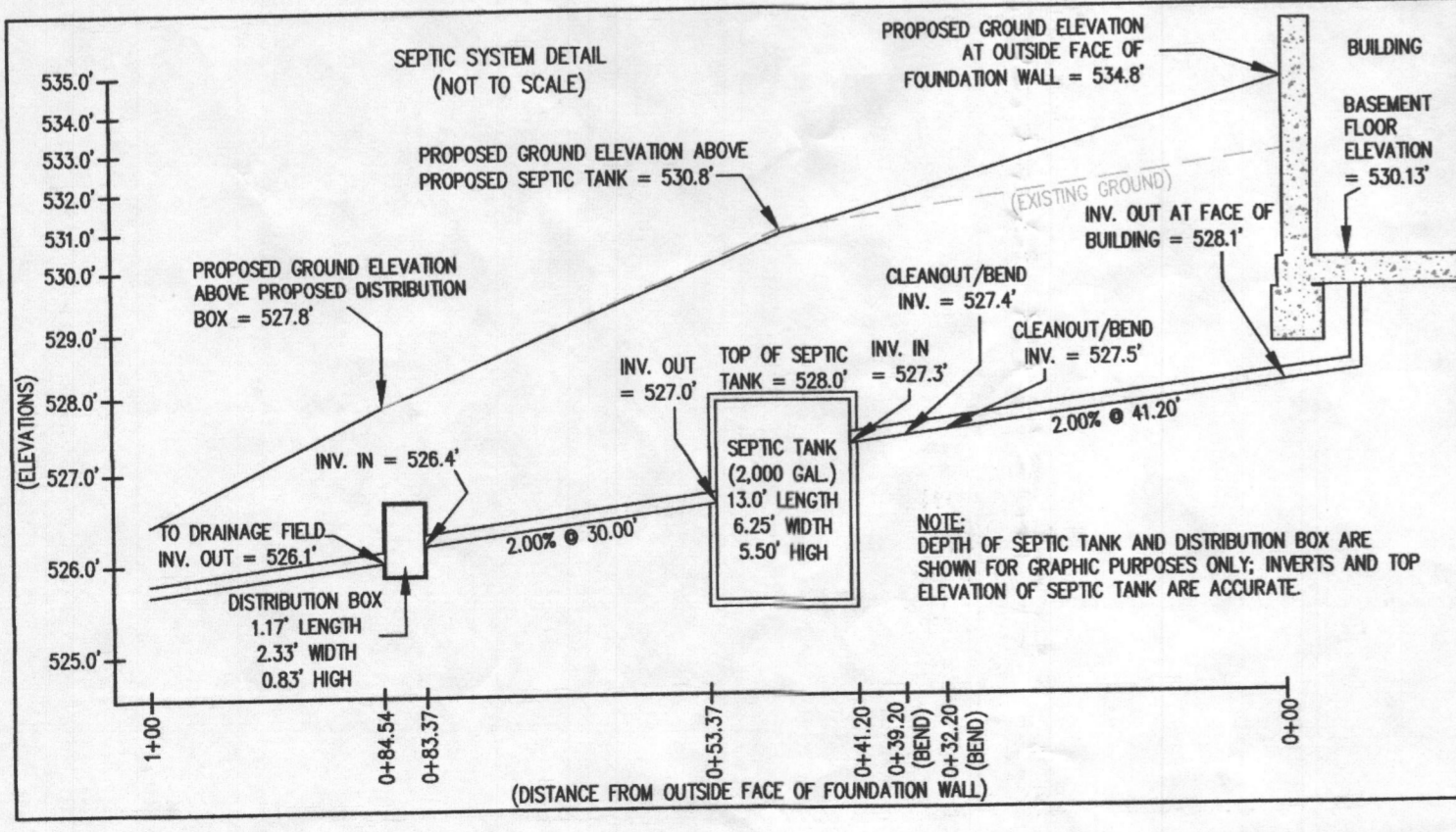
3. TRENCH DESIGN:  
(5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD ÷ 0.8 APP. RATE = 937.50 SF  
USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE  
10' MIN. SPACING BETWEEN TRENCH EDGES  
937.50 SF ÷ 3' WIDTH = 312.50 LF x 0.55 = 171.86 LF MIN. TRENCH  
USE 2 86' LONG TRENCHES = 172 LF

**TRENCH DATA:**

APP. RATE = 0.8  
EFFECTIVE SIDEWALL = 5.5'  
BOTTOM MAX. DEPTH = 8'

TRENCH 1 (T1):  
GROUND ABOVE = 527.0'  
INV. IN = 523.0'  
BOTTOM TRENCH = 519.0'

TRENCH 2 (T2):  
GROUND ABOVE = 525.8'  
INV. IN = 521.8'  
BOTTOM TRENCH = 517.8'



APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

\_\_\_\_\_  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

\_\_\_\_\_  
DIRECTOR

\_\_\_\_\_  
PROFESSIONAL ENGINEER

DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_

SITE PLAN FOR BAT INSTALLATION  
LOT 36  
**EDGEWOOD FARM**  
LIBER 10677, FOLIO 461  
PLAT No. 19269  
TAX No. 04-372646  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
ADDRESS: 14302 BENSWORTH WAY  
GLENELG, MARYLAND

**ESE** Land Planning  
Engineering  
Land Surveying

ESE Consultants Inc.  
7164 Columbia Gateway Dr.  
Suite 230  
Columbia, MD 21046  
TEL: 410-872-9105  
FAX: 410-872-4870

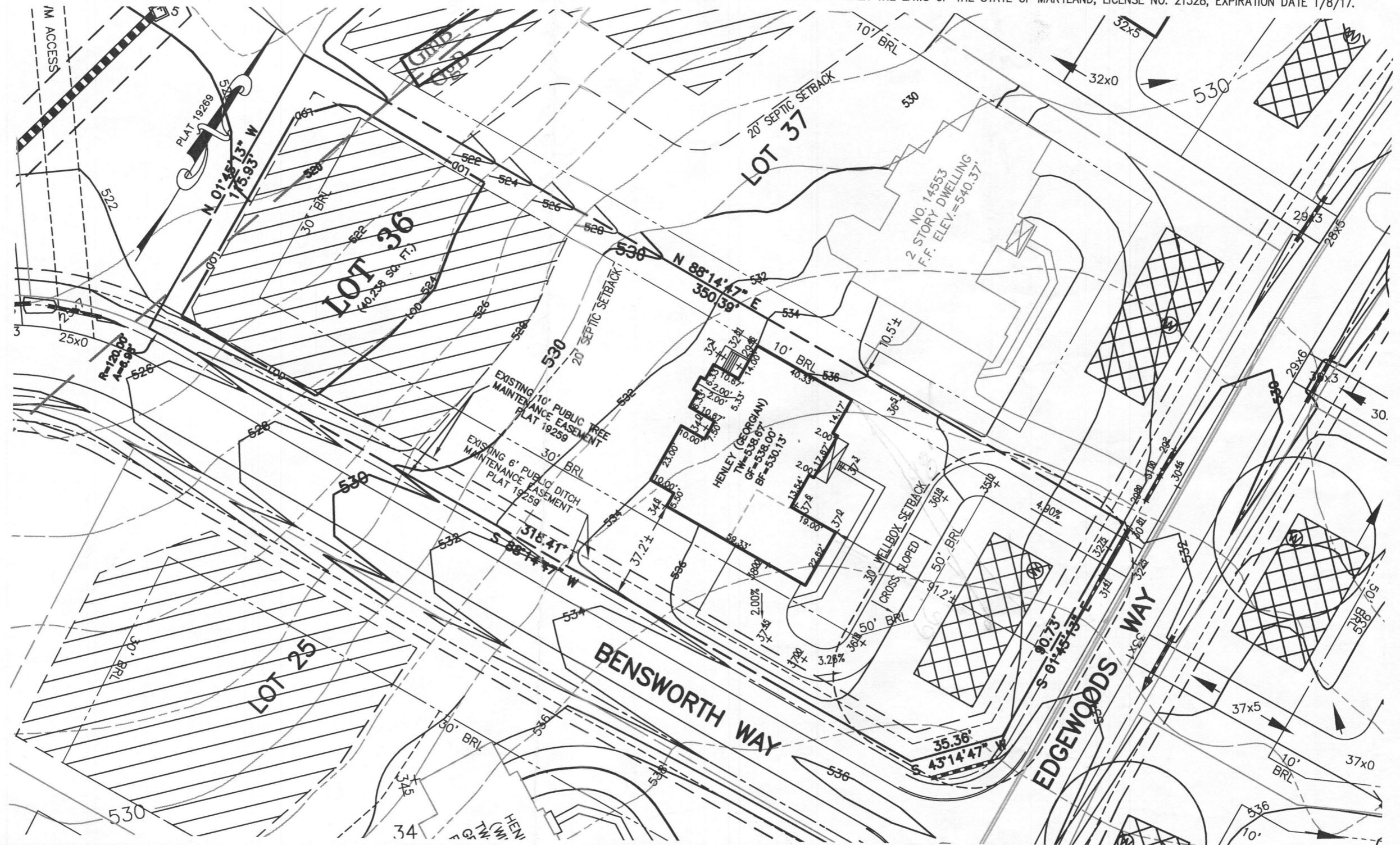
DATE: 07/16/15 SCALE: 1"=40' FILE: PP LOT 36  
CHK'D: M.L.B. JOB NO: 1498 DRAWN: R.C.K.

14599 Edgewoods Way

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/17.

**LEGEND:**

- (W) WELL LOCATION
- LOD- LIMITS OF DISTURBANCE
- TW TOP OF WALL
- GF GARAGE FLOOR
- BF BASEMENT FLOOR
- BRL BUILDING RESTRICTION LINE



7/21/15  
 Site plan  
 approved.  
 H.O.  
 66',  
 98'  
 91',  
 98'

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.



**HOUSE OPTIONS:**

- TYPE: HENLEY (GEORGIAN)
- DAYLIGHT BASEMENT
- EXPANDED FAMILY ROOM/GREAT ROOM
- ADD'L 1' TO HEIGHT OF BSMT FOUNDATION WALLS
- SOLARIUM ADDITION

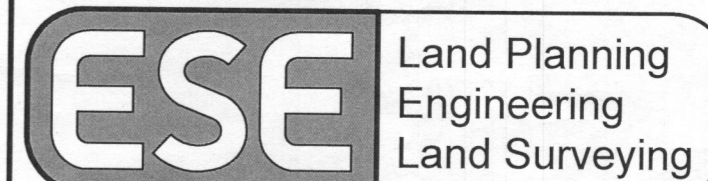
- OPTION No. 018
- OPTION No. 023
- OPTION No. 070
- OPTION No. 501

**WELL NUMBER:** (TO BE DRILLED AT NEW LOCATION SHOWN)

**ADDRESS:** 14302 BENSORTH WAY  
 GLENELG, MD 21737

**PLOT PLAN  
 LOT 36  
 EDGEWOOD FARM**

LIBER 10677, FOLIO 461  
 PLAT No. 19269  
 TAX No. 04-372646  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 14302 BENSORTH WAY  
 GLENELG, MARYLAND



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