

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 992-2330

A 41116

P _____

DISTRICT 4TH

DATE ~~December 18, 1987~~

FEB 26 1988

*WET season
perc OK if pending
approved plan
@*

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER C. Oliver Goldsmith, et ux

ADDRESS Route 27, Longwood Farm, Glenwood, MD 21737 PHONE 301-442-2121

PROPERTY LOCATION:

SUBDIVISION Longwood Farm LOT NO. 1 *LOT 1 Prelim Sec. 1*

ROAD AND DESCRIPTION Southwest Quadrant of intersection of Roxbury Mills Rd. (Rt. 97) and
Union Chapel Road

SIZE OF LOT 3+ Acres TYPE BLDG. SFD Residential

(NUMBER OF BEDROOMS) *

* Undetermined at this time

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.M.A. REQUIREMENTS IN TESTING THIS LOT. *Per Steve Bush, V.P. Steamer Development Corp*

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

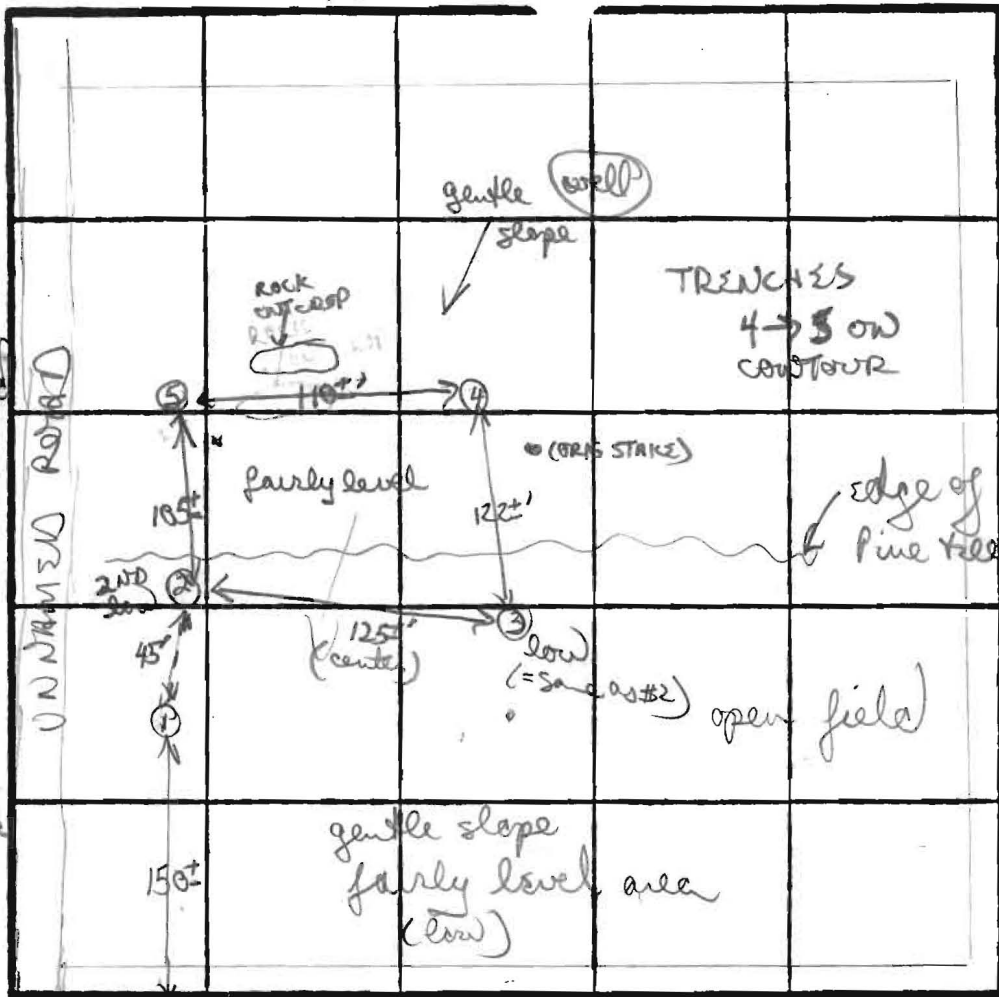
REASONS FOR REJECTION OR HOLDING for field located (good & bad), + confirmed well sites on lot.

THIS IS NOT A PERMIT

INLET 4'
MAX 6 1/2
X 12 MIN
1947 BED

SOIL PROFILE

Brown/yellow clay 3 1/2
w/ few scattered small rock frags w/ clay loc 4 1/2'
to mostly white grey silty mica shud loc 12'
to dark beige grey (dapp weathered) shud b H2O 13'



orange/brown clay (heavy patches) 3-4 1/2
to mostly orange to tan grey silty mica loc w/ few small scattered shud frags
12 1/2-13'
5
orange patchy brown clay clay loc 3 1/2'
mostly tan orange layers silty mica loc 13' w/ few scattered small shud frags
hard bottom 11' D

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

RIE 97

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
4/5/88	①	ALREADY COVERED	PRESUMED ROCK HOLE					
	②	4' 5"	1048	1055	1055	11' 8"	23 MIN	
	③	13' D	bottom (see profile)		(H2O at 13')			
	④	4' 5"	1055	1059	1059	11' 04"	5 MIN	
	⑤	9 1/2' D	hard bottom (see profile)					
	⑥	3 1/2-4' 5"	219	226	226	240"	14 MIN	
	⑦	12 1/2'	bottom (see profile)					
	⑧	4' 5"	217	222	222	228"	6 MIN	
	⑨	15' D	bottom (see profile)					
	WELL SITE MAY BE IN JEOPARDY (<100')							

orange/brown clay checkerboardly clay 2 1/2
clay/gretty loc 4 1/2-5'
to mostly grey orange brown silty sandy loc w/ scattered small patches frags layered 9' hard bottom 9 1/2' D

REMARKS

perc shipped uphill due to rock & maybe H2O - no further uphill allowed due to rock outcrop checker loc 5 / clay silty mix 3-4 1/2', mostly silty loc below

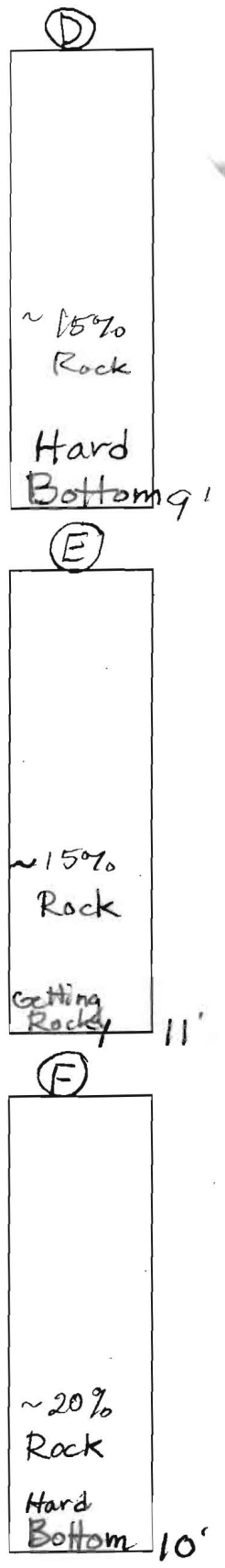
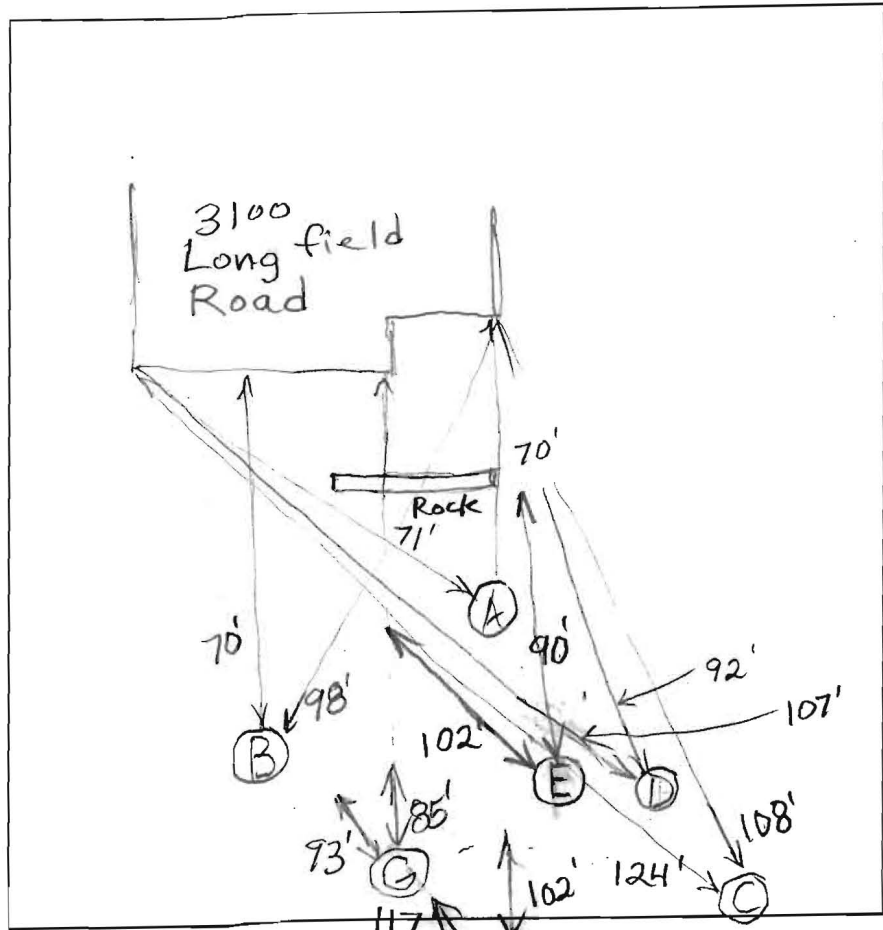
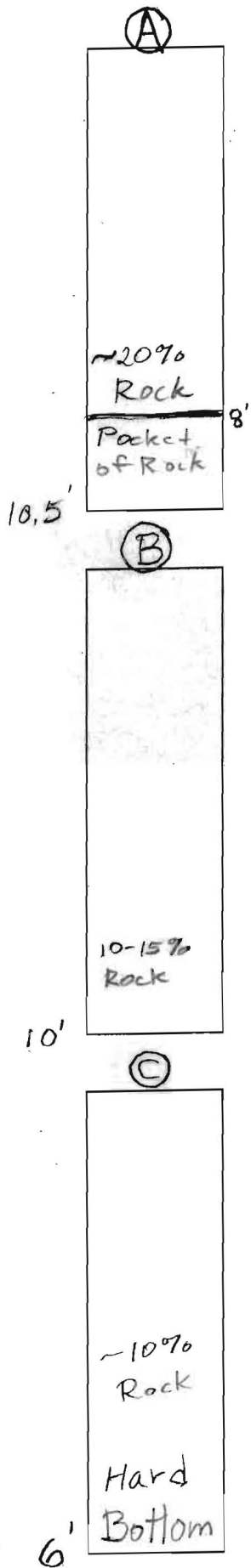
TYPE OF SOIL

TESTED BY

B. Nylan

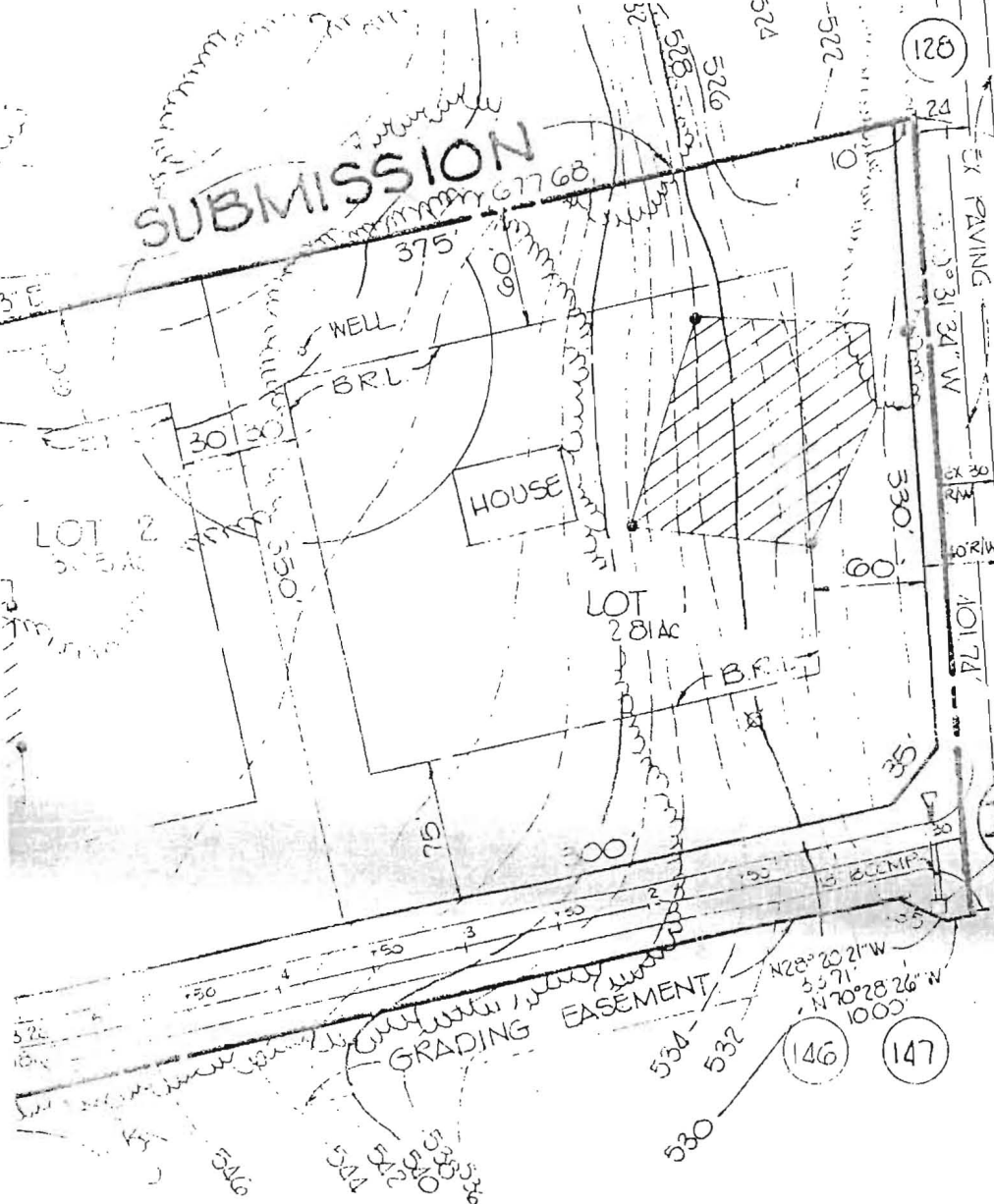
ALSO PRESENT

A/P _____



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/27/2015	A	10.5'v					P
	B	10'v					P
	C	6'v - Hard Bottom					F
	D	9'v - Hard Bottom					
	E	11'v					P
	F	10'v - Hard Bottom					P
	G	10'v Hard Bottom					
		10-15% Rock					

REMARKS _____
 SANITARIAN B. Baker BACKHOE S. Carroll OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____



MILLS ROAD MARYLAND ROUTE 97
 SEE SHEET 1 OF 7 FOR ROADWAY IMPROVEMENTS

REVISION

copy Prelim. Plan Signed 11/13/88

PLANNING & ASSOCIATES INC.
 architecture • engineering

1000 ... • Ellicott City, Maryland 21043 • (301) 465-0105

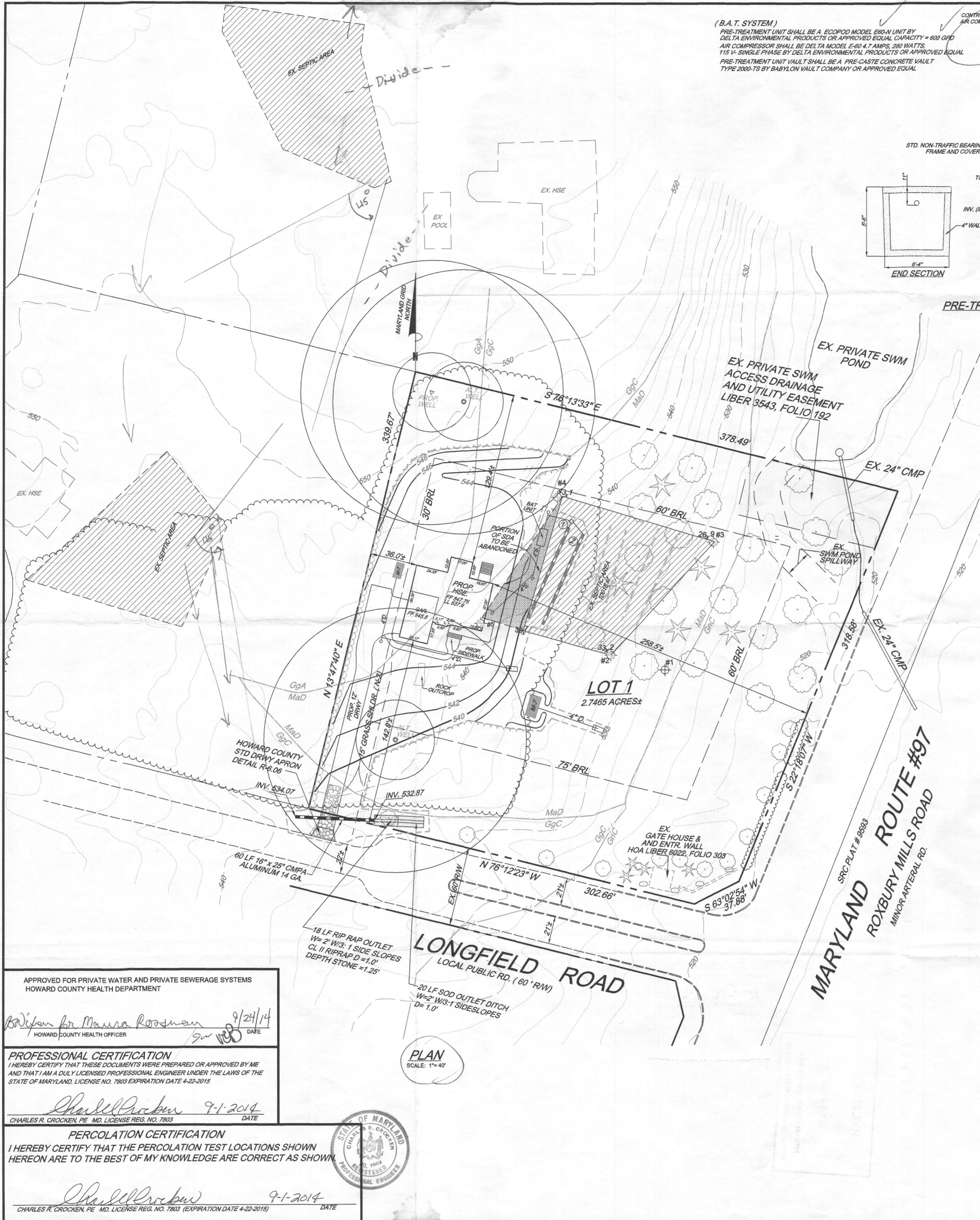
See Plat #8945

Jamie K. Tracy

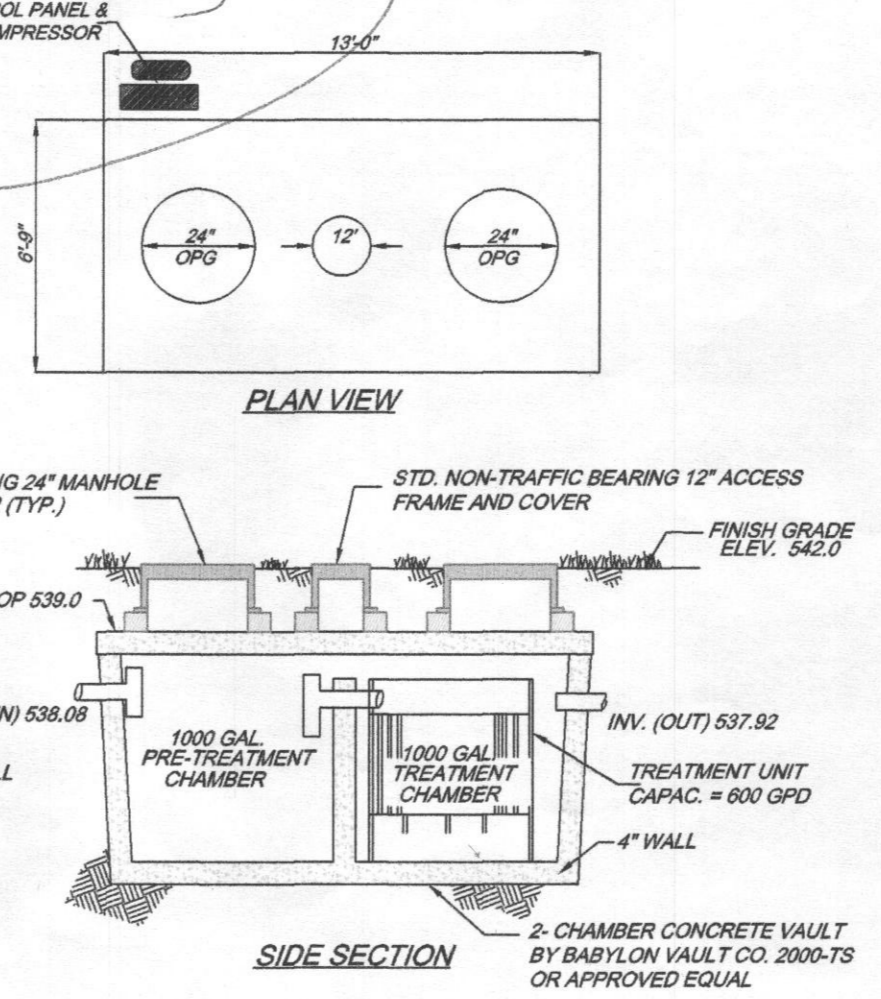
W. GOLDSMITH, ET UX
 THE WINGWOOD FARM
 CO. MARYLAND 21737

PROJECT - WELLINGTON -
 THE DEPENDENCE
 SECTION ONE

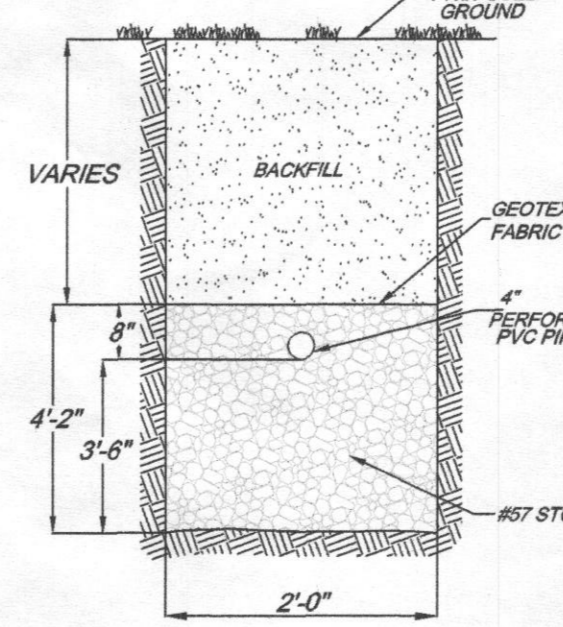
LOCATION 5-88-54
 TAX MAPS 14 & 21 PARCELS 73 & 74
 4TH ELECTION DISTRICT



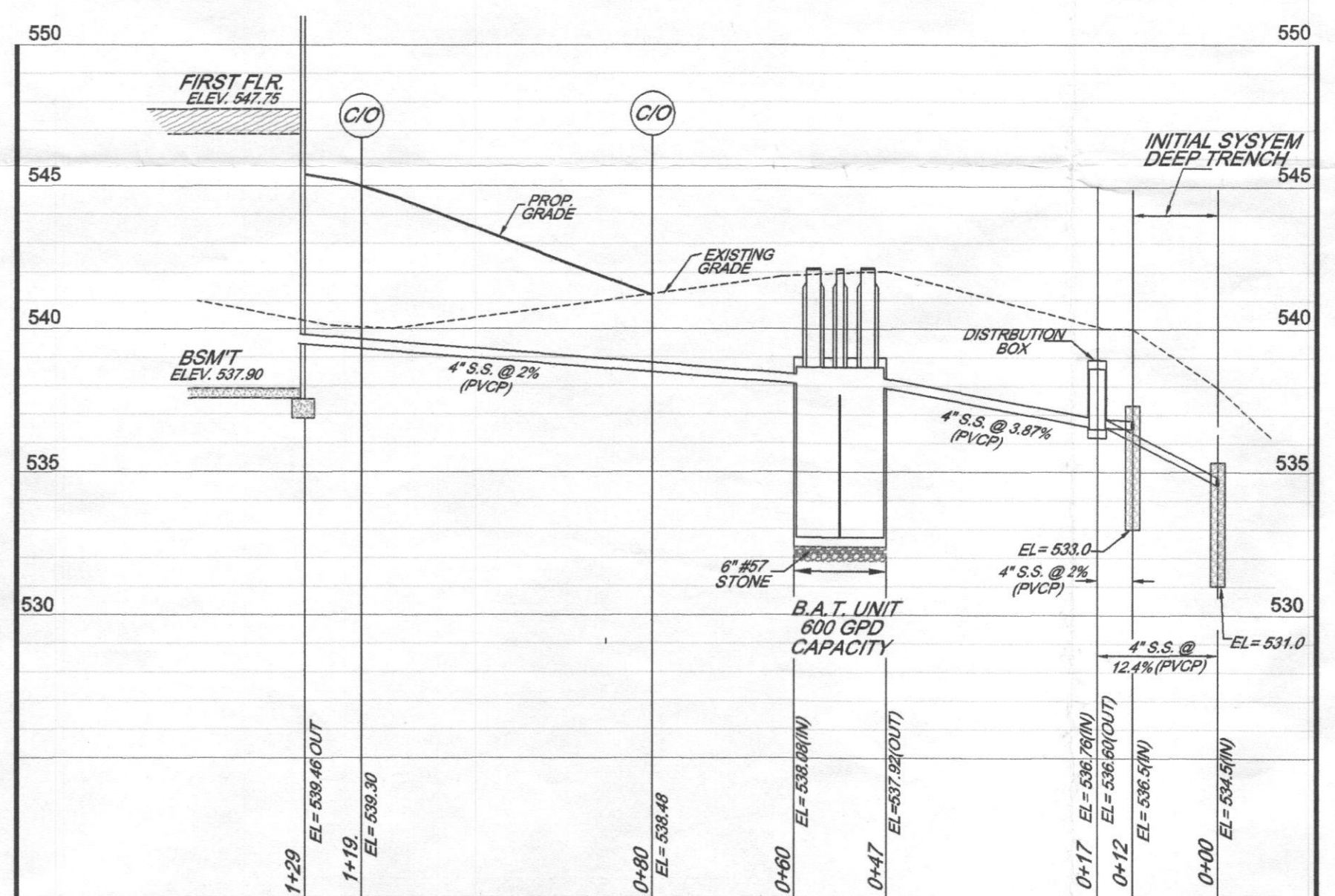
(B.A.T. SYSTEM)
 PRE-TREATMENT UNIT SHALL BE A ECOPROD MODEL ERD-N UNIT BY DELTA ENVIRONMENTAL PRODUCTS OR APPROVED EQUAL CAPACITY = 600 GPD
 AIR COMPRESSOR SHALL BE DELTA MODEL E-60 4.7 AMPS, 280 WATTS, 115 V- SINGLE PHASE BY DELTA ENVIRONMENTAL PRODUCTS OR APPROVED EQUAL
 PRE-TREATMENT UNIT VAULT SHALL BE A PRE-CASTE CONCRETE VAULT TYPE 2000-TS BY BABYLON VAULT COMPANY OR APPROVED EQUAL



PRE-TREATMENT SCHEMATIC DETAIL
 NTS



DEEP TRENCH DETAIL
 NTS



SEPTIC SYSTEM PROFILE:
 SCALES HORIZ 1" = 20'
 VERT. 1" = 5'

SEPTIC SYSTEM DESIGN: GRAVITY SYSTEM

DESIGN FLOW: 4-BEDROOM DWELLING DESIGN FLOW = 600 GPD
 PERCOLATION TEST TIME < 15 MINUTES
 DEEP TRENCH WIDTH W = 2' DEPTH OF STONE = 3.5' BELOW INVERT OF PIPE
 LENGTH OF TRENCH REQ'D = 150 LF
 USE (2) TRENCHES L = 75' EACH

(B.A.T. SYSTEM)
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SEPTIC SYSTEM DATA: (4-BEDROOM DWELLING)
 BASMT. F.F. ELEVATION = 537.80
 INVERT 4" SS @ BLDG. ELEV. = 539.46

PRE-TREATMENT UNIT - (VAULT)
 FINISH GRADE = ELEV. 542.00
 INVERT (IN) = ELEV. 538.09
 INVERT (OUT) = ELEV. 537.92

DISTRIBUTION BOX
 FINISH GRADE = ELEV. 540.0
 INVERT (IN) = ELEV. 536.76
 INVERT (OUT) = ELEV. 536.00

INITIAL SYSTEM
 TRENCH #1 - GRD ELEV 540.00
 INVERT (IN) = ELEV. 538.9
 TOP OF STONE ELEV. 537.17
 BOTTOM OF STONE ELEV. 533.00
 TRENCH #2 - GRD. ELEV. 538.00
 INVERT (IN) = ELEV. 534.5
 TOP OF STONE ELEV. 535.17
 BOTTOM OF STONE ELEV. 531.0

SOILS LEGEND				
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	HYDRIC GROUP
MaD	Major loam, 15 to 25 percent slopes	B	0.28	NOT HYDRIC
GgA	Glenelg loam, 0 to 3 percent slopes	B	0.28	NOT HYDRIC
GgC	Glenelg loam, 8 to 15 percent slopes	B	0.28	NOT HYDRIC
GhB	Glenville-Belle silt loams, 0 to 9 percent slopes	C	0.43	NOT HYDRIC

SOIL TYPES BASED ON HOWARD COUNTY S31L SURVEY MAP # 13 OF 29 / ELLICOTT CITY SW, MARYLAND

BAT SYSTEM NOTES (HCHD)

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT (HCHD) PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM DEPTH OF THE BAT PER HCHD SPECIFICATIONS IS 3 FT.
3. THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SEPTIC SYSTEM.
5. THE BAT SHALL BE OPERATED AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. WITHIN ONE MONTH OF INSTALLATION, THE CONTRACTOR 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 AND MANUFACTURER OF THE BAT UNIT INSTALLED.
7. ALL ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY.
9. THE HOWARD COUNTY HEALTH DEPARTMENT (HCHD) REQUIRES DOCUMENTATION FOR THE START-UP OF THE BAT SYSTEM. THE DOCUMENTATION SHALL BE IN THE FORM OF A CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

GENERAL NOTES

1. OWNERS: STEPHEN T. WALKER
 BRENDA L. WALKER
 3080 WASHINGTON ROAD / RTE 97
 SUITE 200
 GLENWOOD, MARYLAND 21738
 DEED REFERENCE: LIBER 3805, FOLIO 0480
 DATE: JUNE 18, 1979
 GRANTOR: A. ROBY HARDY & RAYMOND E. HARDY
2. TAX MAP 014, GRID 21, PARCEL 239
3. THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF - WELLINGTON, PLAT C.M.P. # 8945
4. SOILS BASED UPON NRCS - SOIL WEB MAPS
5. WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
6. THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #04027C040D ZONE 'X'
7. TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83, CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
8. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
9. SUBJECT PROPERTY IS ZONED RC-DEO
10. COORDINATES BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS SUBJECT BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 21B AND NO. 0710
 GEODETIC CONTROL STATION: NO. 21B, NAD 83, 128.196, E1, 303,655.517, ELEV. 532.01
 GEODETIC CONTROL STATION: NO. 0710, NAD 83, 128.196, E1, 306,716.547, ELEV. 589.83

HEALTH DEPARTMENT NOTES

1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND AREA REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
2. THE AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQ-FT. 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 AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENTS.
3. THERE ARE NO EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 1000 FT OF THE LOT LINES SHOWN HEREON UNLESS NOTED OTHERWISE.
 ⊕ DENOTES "PASSED" PERCOLATION TEST
 ⊗ DENOTES "FAILED" PERCOLATION TEST
4. THE NEAREST WATER INTAKE STRUCTURE IS FOUR MILES+ AWAY.
5. THE PURPOSE OF THE PLAN SHOWN HEREON IS TO AMEND THE REVISED PRIVATE SEWAGE EASEMENT AREA (SEPTIC AREA) FOR LOT 1 AND TO SHOW THE PLAN, PROFILE AND DETAILS FOR THE CONSTRUCTION OF THE PRIVATE ON-SITE SEWAGE DISPOSAL SYSTEM (B.A.T. SYSTEM) FOR LOT 1.
6. ANY CHANGES TO THE PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
7. The well shall be drilled prior to Health Department approval of the Building Permit. jcb

LEGEND

- WELL LOCATION
- ALTERNATE WELL LOCATION
- PROPOSED SEPTIC LOCATION
- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- EX. TREEWOODS LINE
- SOILS LINE
- LIMIT OF DISTURBANCE
- RAIN GARDEN
- EX. TREES/SHRUBS

SITE ANALYSIS

TOTAL AREA SITE	2.7465 ACRES
AREA DISTURBED	1694 SF
AREA TO BE ROOFED	5,383 SF (4.6% IMPREVIOUS)
AREA TO BE VEGETATIVELY STABILIZED	35882 SF
TOTAL VOLUME CUT	513 CY.
TOTAL VOLUME FILL	513 CY.

Signed Eric Crocken, 9/24/14

PERCOLATION CERTIFICATION	
AND B.A.T. SYSTEM PRELIMINARY SITE PLAN	
3100 LONGFIELD RD LOT 1	
"WELLINGTON" SECTION ONE, AREA ONE	
SINGLE FAMILY DETACHED PLAT C.M.P. # 8945	
20# RC-DEO	
FOURTH ELECTION DISTRICT TAX MAP #14, GRID 21, PARCEL 239	
HOWARD COUNTY, MARYLAND	

Prepared by:
CHARLES R. CROCKEN AND ASSOCIATES, INC.
 902 LEE AVE.
 SYKESVILLE, MARYLAND 21157
 Tel. (410) 549-2708
 Fax. (410) 549-9063

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

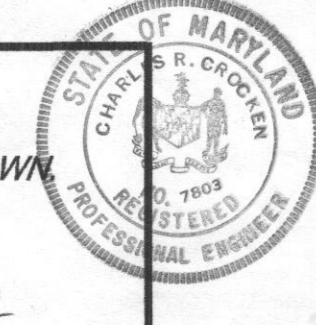
Signature for Maureen Rozman 9/24/14
 HOWARD COUNTY HEALTH OFFICER

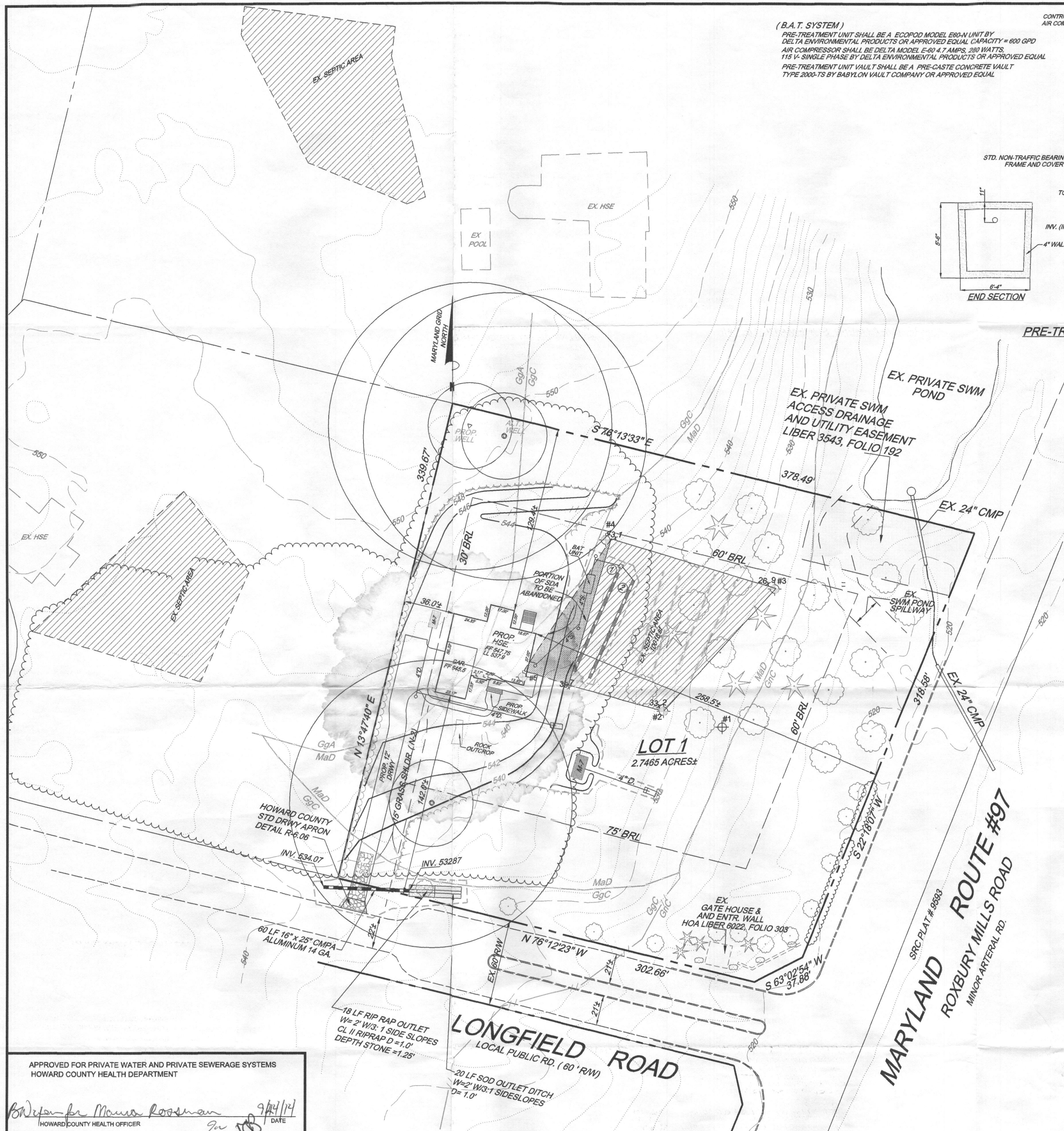
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 7803 EXPIRATION DATE 4-22-2015

Signature Charles R. Crocken 9-1-2014
 CHARLES R. CROCKEN, P.E. MD. LICENSE REG. NO. 7803

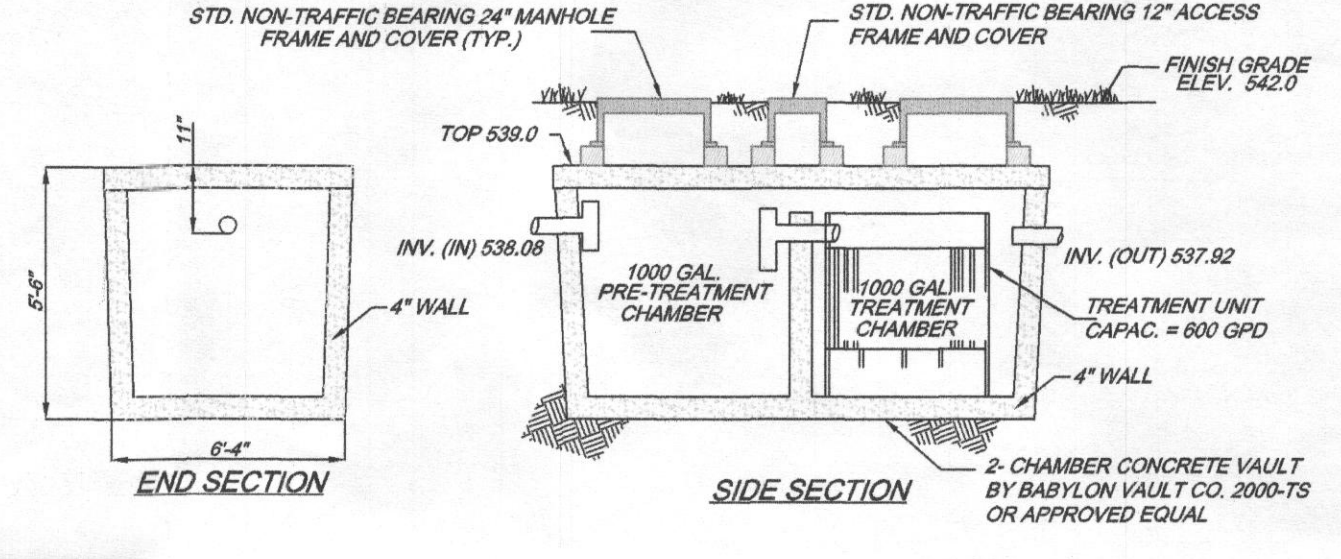
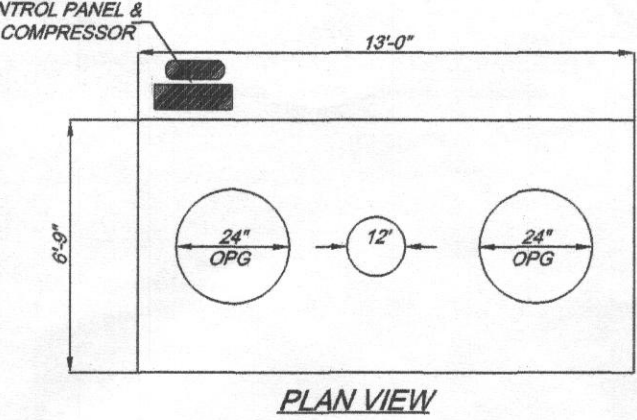
PERCOLATION CERTIFICATION
 I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.

Signature Charles R. Crocken 9-1-2014
 CHARLES R. CROCKEN, P.E. MD. LICENSE REG. NO. 7803 (EXPIRATION DATE 4-22-2015)

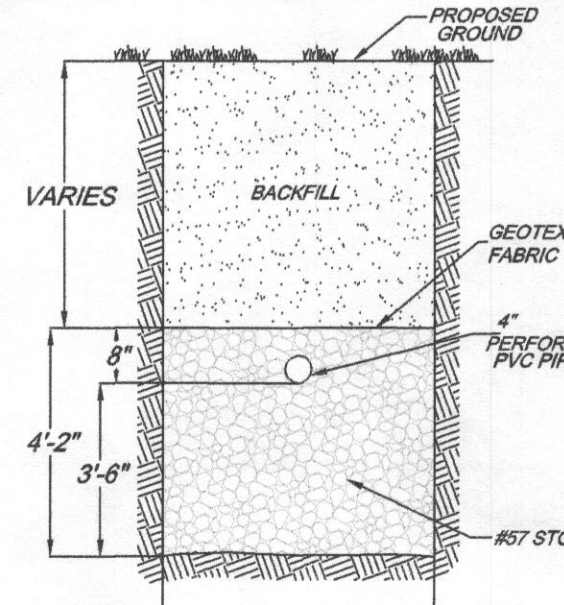




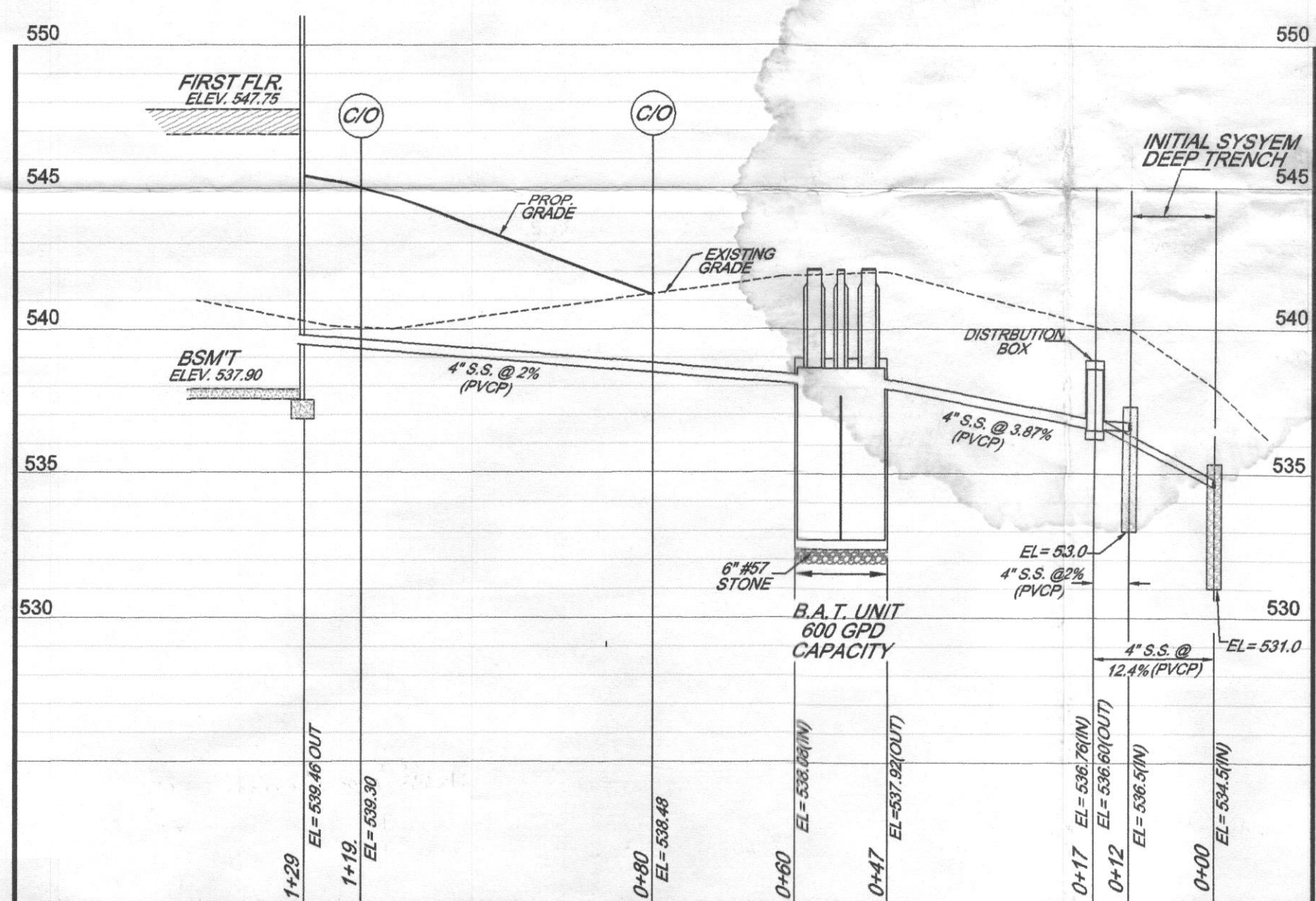
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PRE-TREATMENT SCHEMATIC DETAIL
 NTS



DEEP TRENCH DETAIL
 NTS



SEPTIC SYSTEM PROFILE:
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 VERT. 1" = 5'

SEPTIC SYSTEM DESIGN: GRAVITY SYSTEM

DESIGN FLOW: 4-BEDROOM DWELLING DESIGN FLOW = 600 GPD
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DISTRIBUTION BOX
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 INVERT (IN) = ELEV. 536.76
 INVERT (OUT) = ELEV. 536.60

INITIAL SYSTEM
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 INVERT (IN) ELEV 536.5
 TOP-OF-STONE ELEV. 537.17
 BOTTOM-OF-STONE ELEV. 533.00
 TRENCH #2 - GRD ELEV. 538.0
 INVERT (IN) ELEV. 534.0
 TOP-OF-STONE ELEV. 535.17
 BOTTOM-OF-STONE ELEV. 531.0

SOILS LEGEND				
SYMBOL	NAME/DESCRIPTION	SOIL GROUP	K-VALUE	HYDRO GROUP
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GENERAL NOTES

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 DEED REFERENCE: LIBER 3805, FOLIO 0480
 DATE: JUNE 18, 1978
 GRANTOR: A. ROBY HARDY & RAYMOND E. HARDY
2. TAX MAP 014, GRID 21, PARCEL 239
3. THE BOUNDARY SHOWN HEREON IS BASED UPON RECORDED PLAT OF WELINGTON PLAT C.M.P. # 8945
4. SOILS BASED UPON NRCS - SOIL WEB MAPS
5. WATER SERVICE IS PRIVATE, SEWER SERVICE IS PRIVATE
6. THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #2402700450 ZONE 'X'
7. TOPOGRAPHY SHOWN HEREON IS FIELD RUN BASED UPON HOWARD COUNTY GIS DATA NAVD83, CONTOUR INTERVAL = 2 FT. FIELD VERIFIED BY CRC & ASSOC.
8. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
9. SUBJECT PROPERTY IS ZONED RC-DEO
10. COORDINATES BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 2418 AND NO. 0010
 GEODETIC CONTROL STATION: NO. 218A, N898.125.196, E1,303,695.317, ELEV. 532.01
 GEODETIC CONTROL STATION: NO. 21CB, N898.188.032, E1,306,716.647, ELEV. 539.53

HEALTH DEPARTMENT NOTES

1. THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP, WIDTH AND AREA REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
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7. The well shall be drilled prior to Health Department approval of the Building Permit. RB

LEGEND

- WELL LOCATION
- ALTERNATIVE WELL LOCATION
- PROPOSED SEPTIC LOCATION
- EX. PROPERTY LINE
- EX. RIGHT-OF-WAY
- PROP. LOT LINES
- EX. EASEMENTS
- EX. CONTOURS
- EX. TREE/SHRUBS LINE
- SOILS LINE
- LIMIT OF DISTURBANCE
- RAIN GARDEN
- EX. TREES/SHRUBS

SITE ANALYSIS
 TOTAL AREA SITE: 2,266 ACRES
 AREA DISTURBED: 1,994 SF
 AREA TO BE ROOFED: 5,383 SF (4.5% IMPREVIOUS)
 AREA TO BE VEGETATIVELY STABILIZED: 1,686 SF
 TOTAL VOLUME CUT: 513 CY.
 TOTAL VOLUME FILL: 513 CY.

Signed Perc Cert. 9/24/14

PERCOLATION CERTIFICATION AND B.A.T. SYSTEM SITE PLAN	
3100 LONGFIELD RD LOT 1 "WELLINGTON" SECTION ONE, AREA ONE SINGLE FAMILY DETACHED PLAT C.M.P. # 8945 ZONED RC-DEO	
FOURTH ELECTION DISTRICT TAX MAP #14, GRID 21, PARCEL 239 HOWARD COUNTY, MARYLAND	
Prepared by:	CHARLES R. CROCKEN AND ASSOCIATES, INC. 902 LEE AVE. SYKESVILLE, MARYLAND 21157 Tel. (410) 549-2703 Fax. (410) 549-9063
SCALE: 1" = 40'	DATE: 09/23/14 SHEET 1 OF 1

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 Howard County Health Officer
 9/24/14

PROFESSIONAL CERTIFICATION
 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. 7803 EXPIRATION DATE 4-22-2015
 Charles R. Crocken 9-1-2014
 CHARLES R. CROCKEN, PE, MD, LICENSE REG. NO. 7803



PERCOLATION CERTIFICATION
 I HEREBY CERTIFY THAT THE PERCOLATION TEST LOCATIONS SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE ARE CORRECT AS SHOWN.
 Charles R. Crocken 9-1-2014
 CHARLES R. CROCKEN, PE, MD, LICENSE REG. NO. 7803 (EXPIRATION DATE 4-22-2015)