

#### **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

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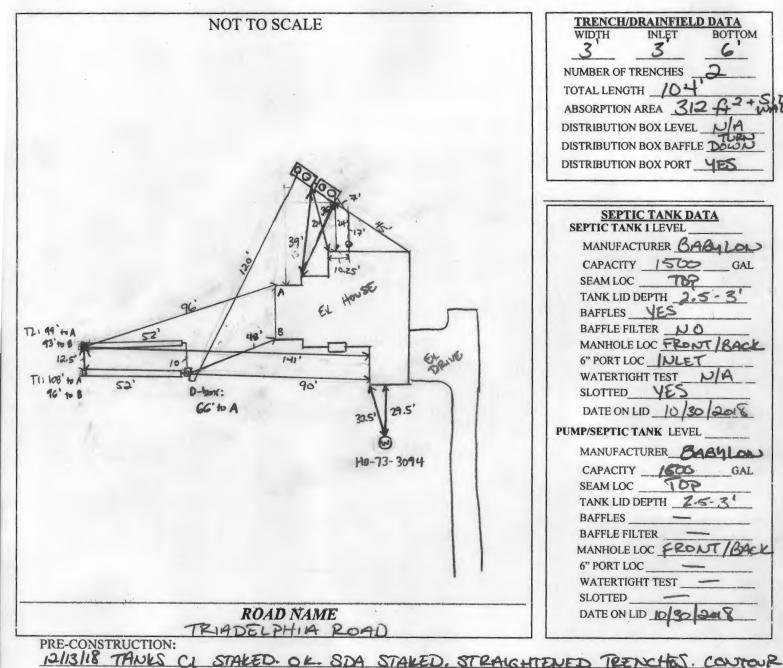
Maura J. Rossman, M.D., Health Officer

RECEIPT I	DATE: 12/7/18 ONSITE SEWAGE DISPOSAL SYSTEM P 504092
APPROVAL I	DATE: 5/22/19 KMPERMIT: CONSTRUCTION A
PROPERTY A	DDRESS: 14885 Triadelphia Road
SUBDIVISION	: Jeremy Station LOT: 3 TAX ID:
CONTRACTO	R: Freedom Sestic EMAIL: Kristing freedom Sestic con
CONTRACTOR	ADDRESS: 2809 Libertyko, Sykesylk, MD 21787 PHONE: 410-195-247
PROPERTY O	WNER: Popi Mae Christiansen EMAIL:
OWNER ADDR	ESS: 848 Pacific Street Unit 1, Santa Monica, CA 90405 PHONE:
SEPTIC TANK S	SIZE (GALLONS): 1500 TANK MANUFACTURER: Mayer Bros
PUMP MODEL	: Goulds WE03M PUMP SIZE 1/3 PUMP TANK CAPACITY: 1500
DISTRIBUTIO	N SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2
	LINEAR FEET REQUIRED: 104 INLET DEPTH: 3
TRENCHES:	TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 6
	MINIMUM SPACE BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 3
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.
NOTES:	
ISSUED BY:	Jeff Williams ISSUE DATE: 10/7/18 EXPIRATION DATE: 10/7/19
	TRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
	TRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
	IE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
	ERTIGHT TANKS REQUIRED ARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
	HOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
	LECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
	ELECTRICAL PERMIT ISSUED E 18003492
	RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE
TO EI	NSURE 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.



**FINAL INSPECTOR** 

TRENCH/DRAINFIELD DATA
WIDTH INLET BOTTO **BOTTOM** NUMBER OF TRENCHES TOTAL LENGTH 102 ABSORPTION AREA 312 42+SIDE DISTRIBUTION BOX LEVEL NA DISTRIBUTION BOX BAFFLE DOWN DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA SEPTIC TANK 1 LEVEL
MANUFACTURER BABILON
CAPACITY 1500 GAL
SEAM LOC
TANK LID DEPTH 2.5-3
BAFFLES YES
BAFFLE FILTER NO
MANHOLE LOC FRONT/BACK
6" PORT LOC   NLET
WATERTIGHT TEST NA
SLOTTED YES
DATE ON LID 10/30 2018
PUMP/SEPTIC TANK LEVEL
MANUFACTURER BASHLOW
CAPACITY GAL GAL
SEAM LOC TOP
TANK LID DEPTH Z.5-3'
BAFFLES
BAFFLE FILTER
MANHOLE LOC FRONT/BACK
6" PORT LOC
WATERTIGHT TEST
SLOTTED
DATE ON LID 10/30 248

WAS SUPPORTED DECISION. P INSTALLATION: 12/17/2018 TANKS SET. SHC INSTALLED FROM HOUSE TO SETTLING TANK INLET @ 12/18/2018 FORCE MAIN INSTALLED INTO D BOX. NO BAFFLE F.M. TURN DOWN IN DBOK. TRENCHES BACKFILL REINSP. PUMP - ALARM. NEEDS & Freedom on site for groups - alarm test. Pump prings effluent to D-bax, alarma of dirt over menches - must remove before approval of septic permit. 5/22/19 FIN remissed constrained from bother to

DATE OF APPROVAL

#### Cabahug, Joseph

From:

Cabahug, Joseph

Sent:

Friday, December 21, 2018 10:27 AM

To:

'FJMARINER@GMAIL.COM'; 'DavidKSadler@aol.com'

Cc:

Wolf, Kevin; Collins, Sarah; Rappaport, Ryan; Martin, Sharhonda

Subject:

14885 Triadelphia Road - Septic Electrical Permit

Hello,

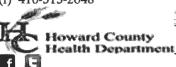
As of 12/21/2018, our records indicate that the listed property, 14885 Triadelphia Road, has an outstanding requirement for an Electrical Permit for the Septic Pump and Alarm and is outstanding in bringing the well to current construction standards.

This is a courtesy email to inform the builder that these requirements must be met prior to the issuance of an Interim Certificate of Potability pursuant to a Certificate of Potability.

Please call for inspection when the works have been completed.

Bests,

Joseph C. Cabahug - LEHS
Environmental Health Specialist
Howard County Health Department - Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2643
(f) 410-313-2648



jcabahug@howardcountymd.gov

#### CONFIDENTIALITY NOTICE

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## **VOGEL ENGINEERING + TIMMONS GROUP**

8407 Main Street Ellicott City, MD 21043 P 410.461.7666 F 410.461.8961 **www.timmons.com** 

## LETTER OF TRANSMITTAL

Date:	August 16, 2017
To:	Howard County Department of Health
Attn:	Dana Bernard
cc:	
	Jeremy Station – Lot 3
•	fumber: 17-14.00
I Toject IV	umber: 17-14.00
ATTACE	IFD.
ATTACE	IED.
# Copies	Description
3	Onsite Sewage Disposal System Design Plan
3	Percolation Certification Plan
Remarks:	
Kemarks.	
4. 7. 7. 1	
Transmitte	ed by:
Received	by:

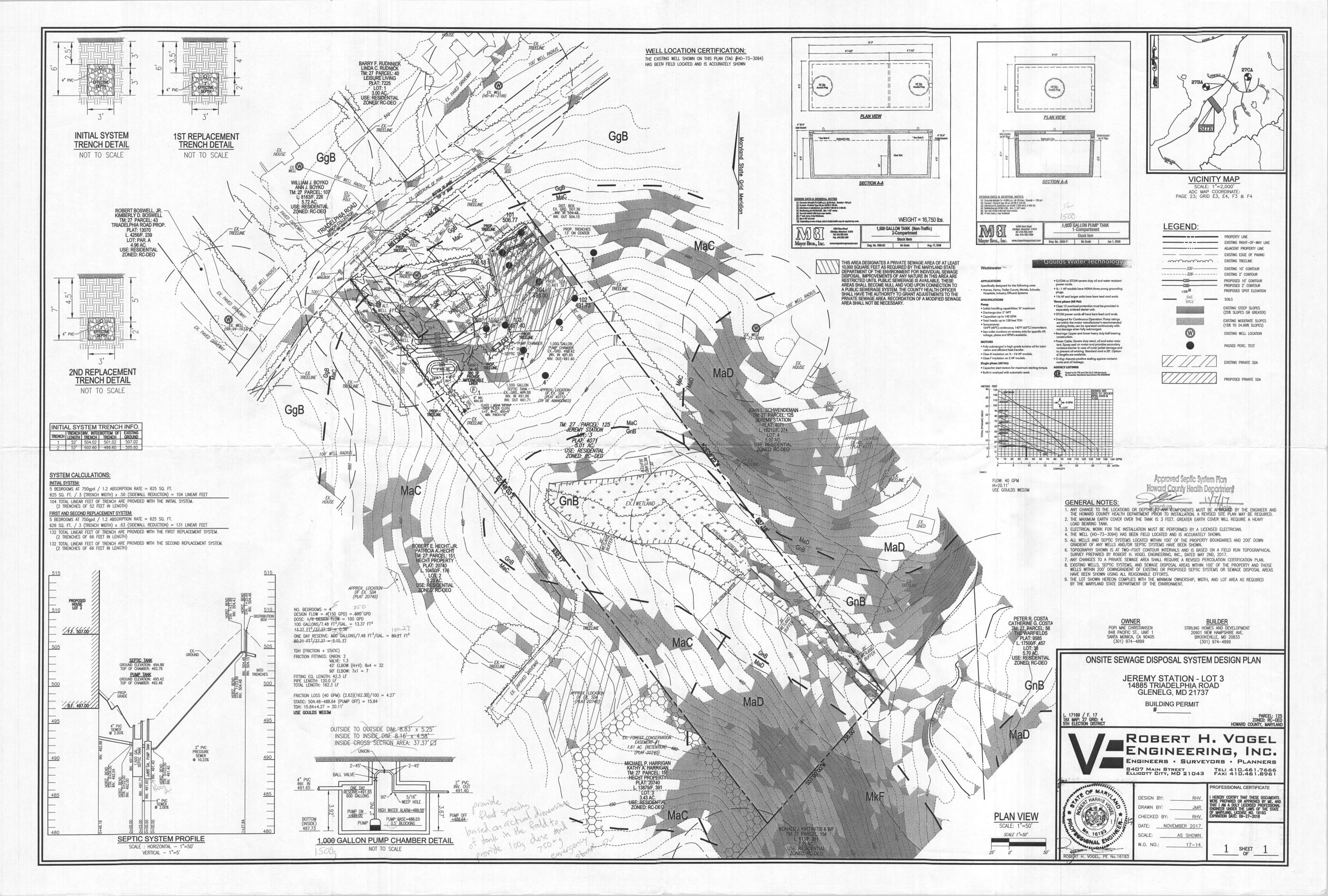
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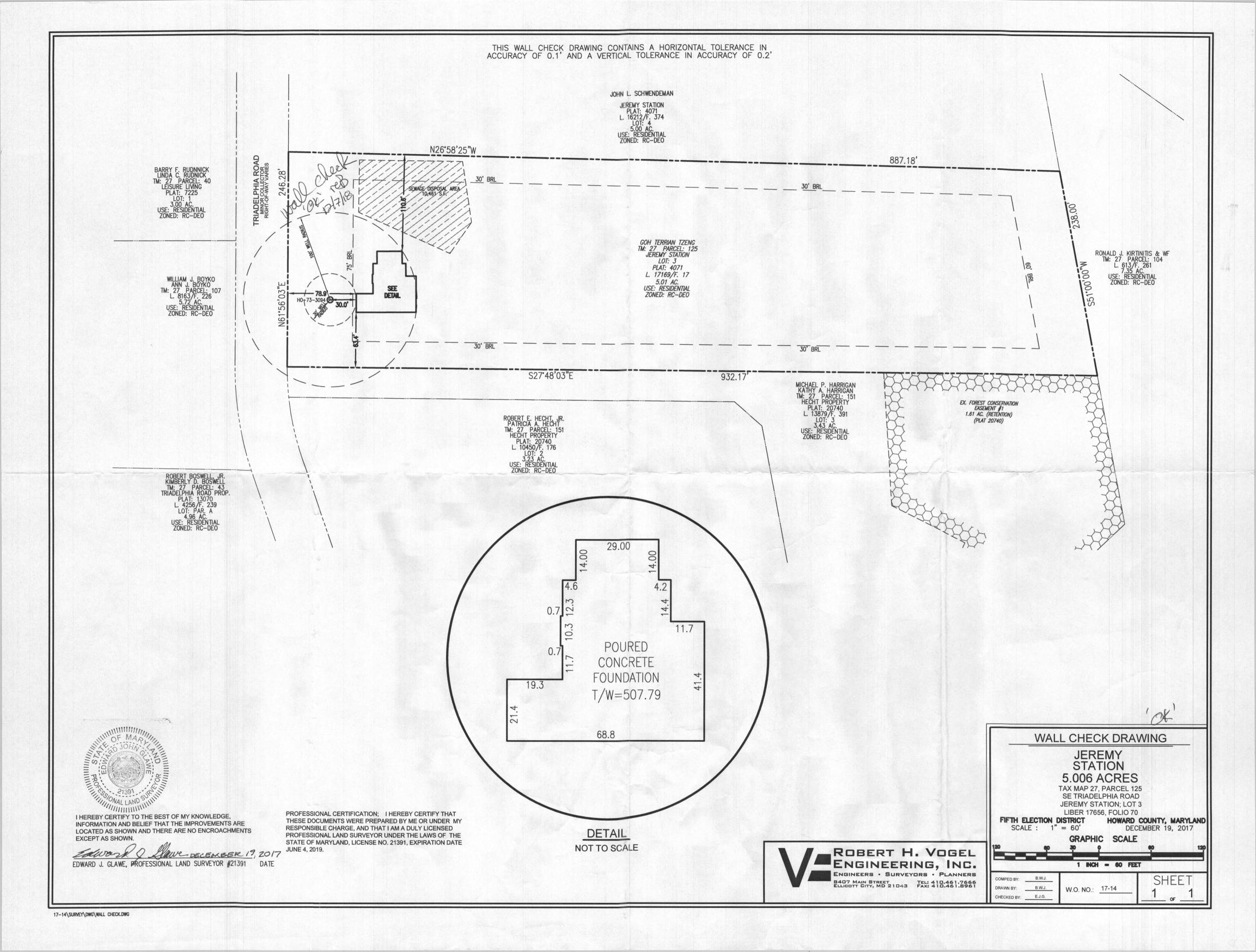
8407 Main Street Ellicott City, MD 21043 P 410.461.7666 F 410.461.8961 **www.timmons.com** 

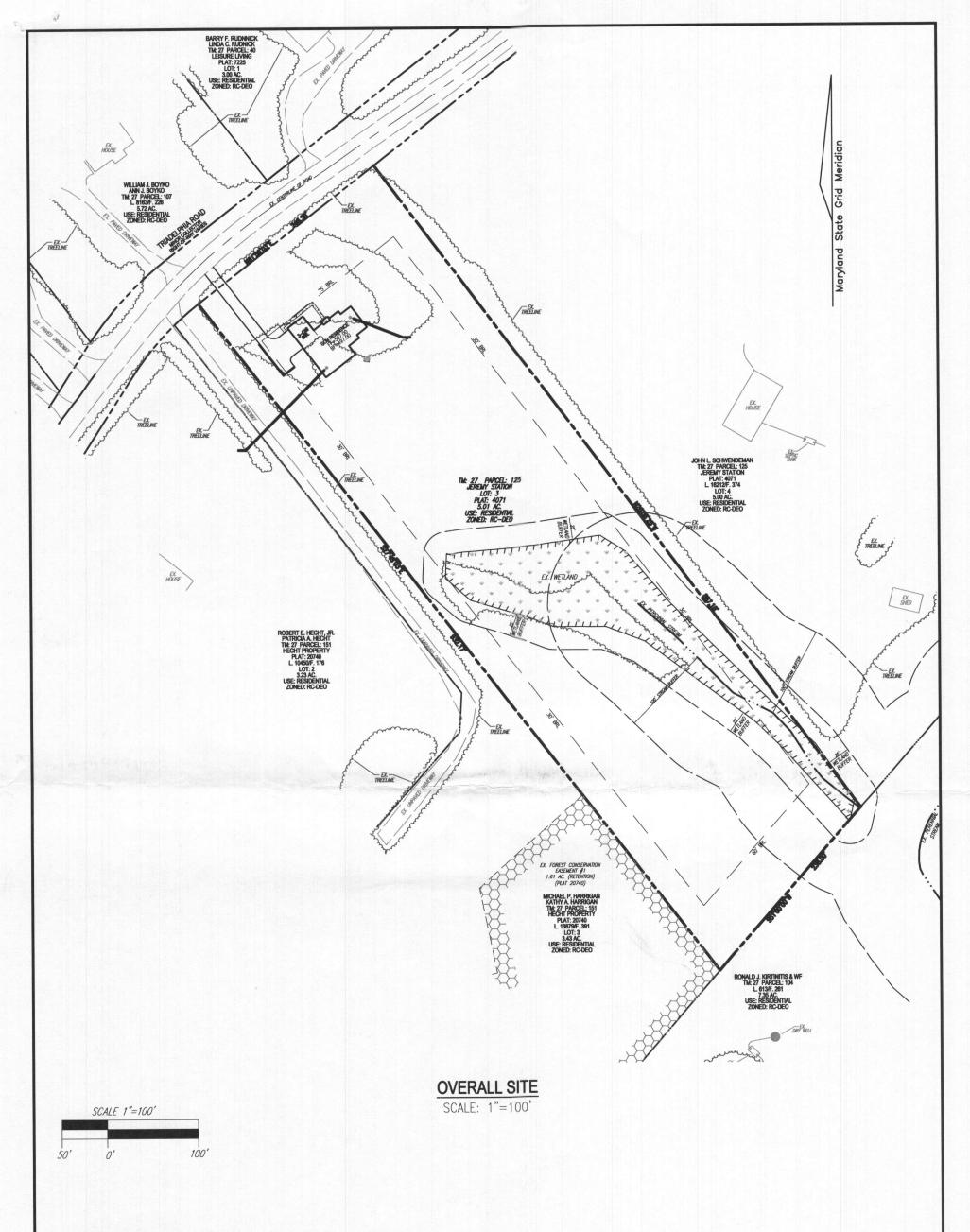
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Date:	August 16, 2017
To:	Howard County Department of Health
Attn:	Dana Bernard
cc:	
<b>Subject:</b>	Jeremy Station – Lot 3
•	umber: 17-14.00
•	
ATTACH	IED:
# Copies	Description
3	Onsite Sewage Disposal System Design Plan
3	Percolation Certification Plan
Remarks:	
engal.	
and property	
Transmitt	ed by:
Received	by:
	•

EREMY STATION OR CHARLES SMITH PROPERTY LOTS
SEPTIC TANK: 18 BEDROOM, 1000 GALLON Trulefphea Pol #14885
4 BEDROOM, 1250 GALLON
,
DRY WELL TO HAVE 12-0158 SQUARE FEET OF SIDEWALL AREA PER BEDROOM
DRY WELL INLET TO BE MAX. # FEET BELOW ORIGINAL GRADE. wint 32-32 met
DRY WELL BOTTOM (MAXIMUM DEPTH) TO BE \$ 18 FEET BELOW ORIGINAL GRADE.
PLACE THE DRY WELL 37 FEET FROM THE FRONT LOT LINE AND 137 FEET FROM THE
RIGHT LOT LINE AS SEEN WHEN FACING THE LOT FROM TRIDELPHIA ROAD. & nun
on beel ground more aless toward left side of near
addrew: 14885 Triadelphia Road
owner: John D. Walsh
9906 Dedin Grive
Lilver Springs, Mr.
439- 2837
World and sent graph









5TH ELECTION DISTRICT TAX MAP: 27 GRID: 04

## OWNER

TERRIAN TZENG GOH LINHUA TZENG GOH 12551 FOREMAN BLVD. CLARKSVILLE, MD 20871 (301) 974–4899

### **BUILDER**

STIRLING HOMES AND DEVELOPMENT 20901 NEW HAMPSHIRE AVE. BROOKEVILLE, MD 20833 (301) 974-4899

SCALE AS SHOWN
DRAWN BY JMR
CHECKED BY RHV
DATE AUGUST 2017
W. O. # 17-14

SHEET#

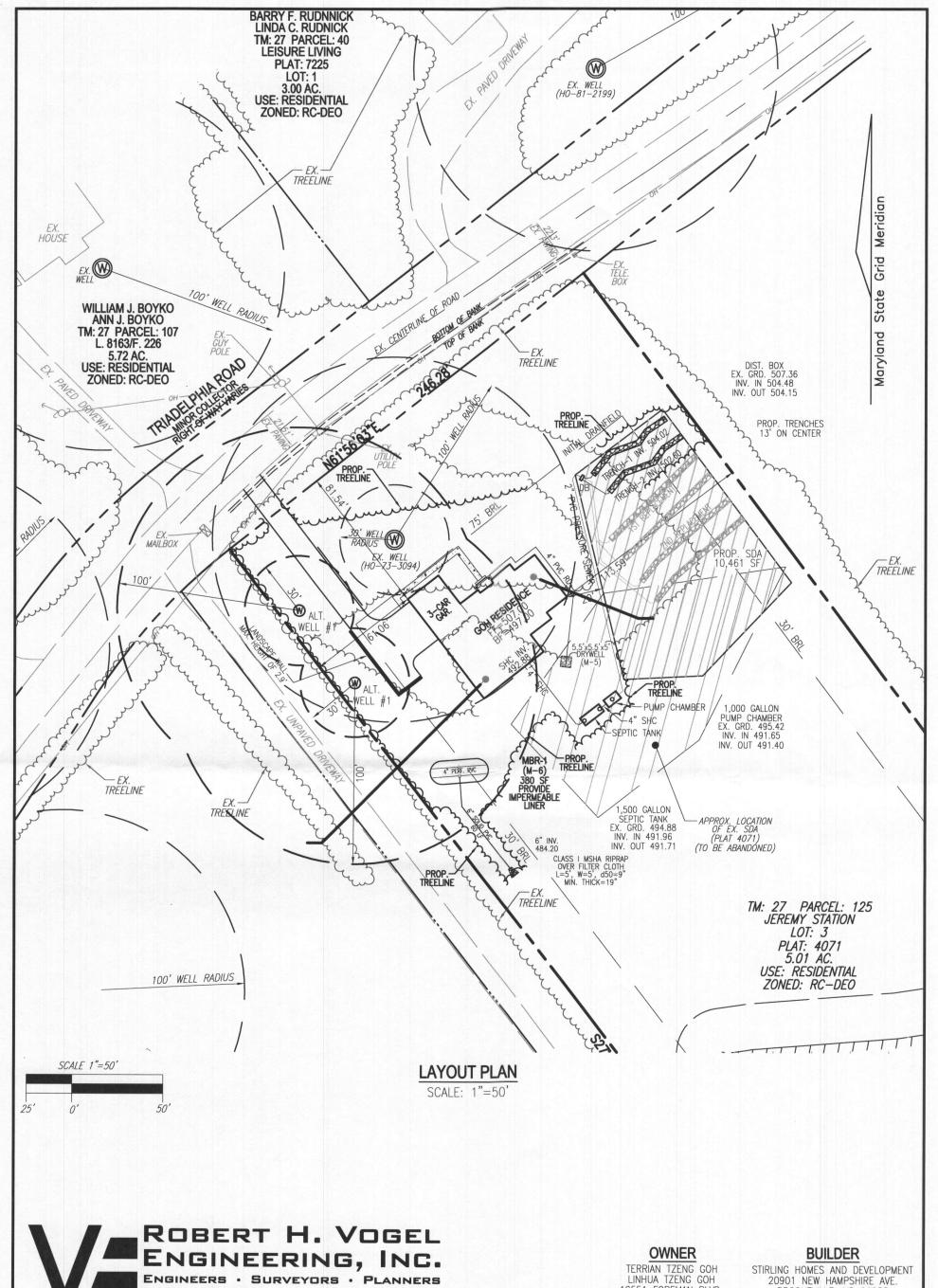
1 OF 5

JEREMY STATION - LOT 3

PLOT PLAN

14885 TRIADELPHIA ROAD GLENELG, MD 21737 (L. 17169 / F. 17)

REF: GP-17-101





5TH ELECTION DISTRICT TAX MAP: 27 GRID: 04

12551 FOREMAN BLVD. CLARKSVILLE, MD 20871

(301) 974-4899

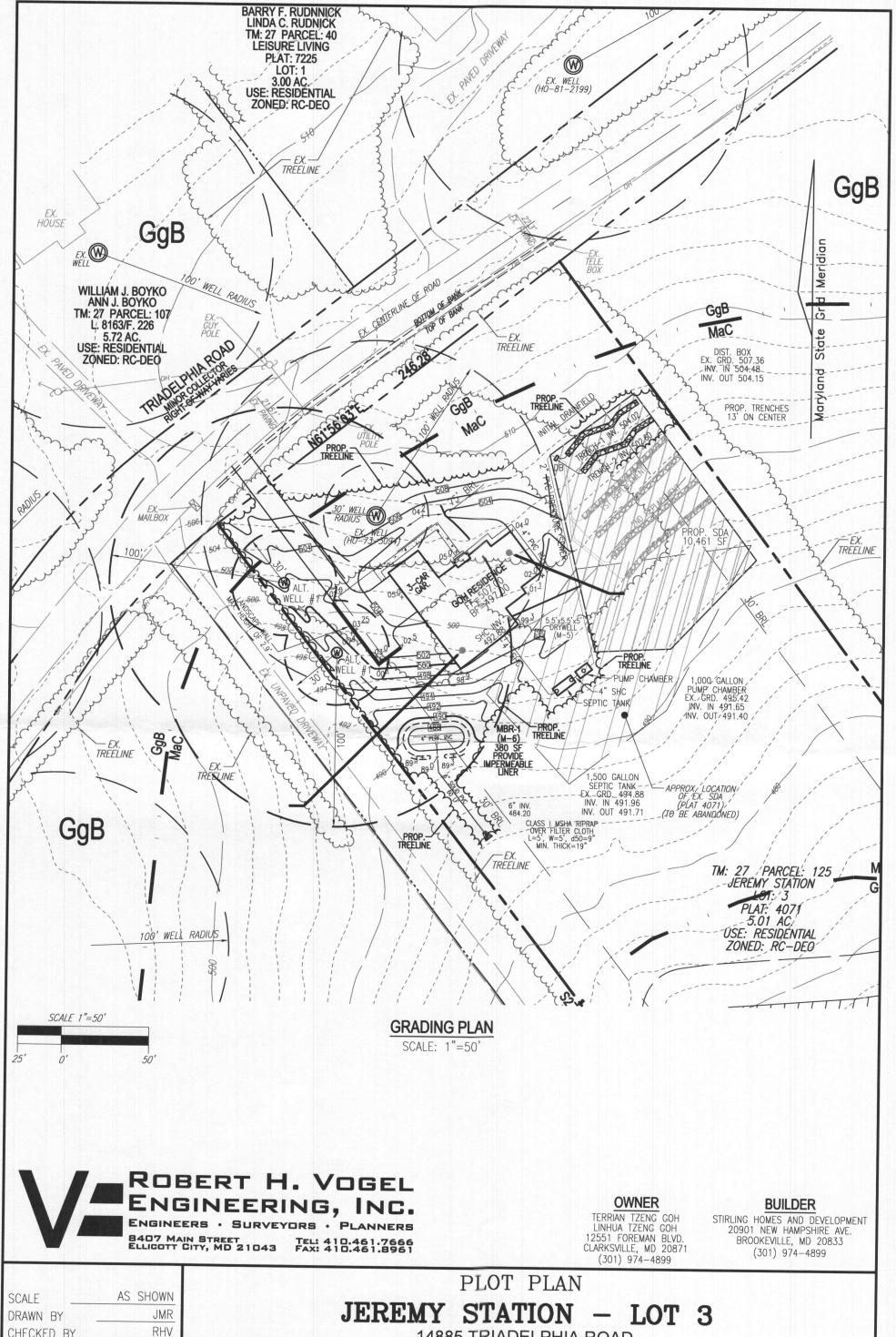
BROOKEVILLE, MD 20833 (301) 974-4899

AS SHOWN SCALE **JMR** DRAWN BY RHV CHECKED BY AUGUST 2017 DATE 17-14 W. O. # 2 OF 5 SHEET#

PLOT PLAN

# JEREMY STATION - LOT 3

14885 TRIADELPHIA ROAD GLENELG, MD 21737 (L. 17169 / F. 17) REF: GP-17-101



CHECKED BY RHV AUGUST 2017 DATE W. O. # 17 - 14

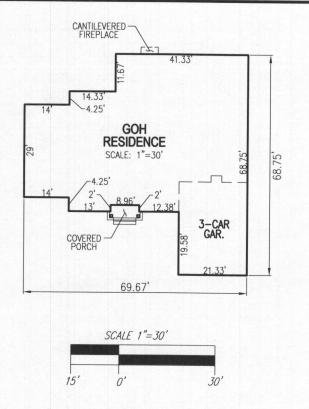
SHEET#

3 OF 5

5TH ELECTION DISTRICT TAX MAP: 27 GRID: 04

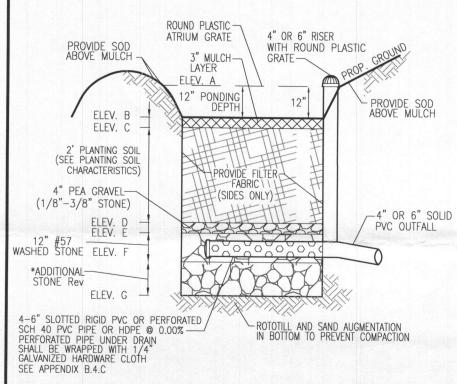
14885 TRIADELPHIA ROAD GLENELG, MD 21737 (L. 17169 / F. 17)

REF: GP-17-101



Appendix B.4. Construction Specifications for Environmental Site Design Practices

Material	Specification	Size	Notes		
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific		
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%		
Organic content	Min. 10% by dry weight (ASTM D 2974)				
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips		
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	agee o monans, annument, no pare or wood cimps		
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"			
Geotextile		n/a	PE Type 1 nonwoven		
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")			
Underdrain piping F 758, Type PS 28 or AASHTO M-278		4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth		
Poured in place concrete (if required)  MSHA Mix No. 3; F <sub>e</sub> = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60		n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking		
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.		



4" OR 6" RISER WITH ROUND PLASTIC **GRATE** PROP. GROUND -VARIES 2:1 MAX 3" MULCH LAYER TOP=489.30 ELEV. A **PONDING** PROVIDE SOD ABOVE MULCH PROVIDE SOD ABOVE MULCH 9" DEPTH ELEV. B ELEV. C 2' PLANTING SOIL (SEE PLANTING SOIL 4" OR 6" Rev DISTRIBUTION PIPE PROVIDE FILTER FABRIC CHARACTERISTICS) 4" PEA GRAVEL-(SIDES ONLY) (1/8"-3/8" STONE)PIPE THROUGH STONE RESERVOIR\* ELEV. D ELEV. E 12" #57 ELEV.
WASHED STONE ELEV. \*ADDITIONAL STONE Rev ELEV. G \*\*4-6" SLOTTED RIGID PVC OR PERFORATED SCH 40 PVC
PVC PIPE OR HDPE @ 0,00%.
PERFORATED PIPE UNDER DRAIN
SHALL BE WRAPPED WITH 1/4" \*\*UNDER DRAIN (SEE PLANS) TO OUTFALL GALVANIZED HARDWARE CLOTH SEE APPENDIX B.4.C

## MICRO BIORETENTION (UNDERDRAIN) (M-6)

NOT TO SCALE \*ADDITIONAL STONE PROVIDED FOR 10 YEAR ATTENUATION/Rev

## MICRO BIORETENTION (OVERFLOW) (M-6)

NOT TO SCALE \*ADDITIONAL STONE PROVIDED FOR 10 YEAR ATTENUATION/Rev

MICRO-BIORETENTION FACILITY ELEVATIONS (M-6)										
FACILITY	A	В	С	D	E	F	G	UNDERDRAIN INV. OUT	OUTFALL INV.	FACILITY SIZE
MBR-1 (M-6)	489.00	488.00	487.75	485.75	485.42	484.42	483.72	484.67	484.20	380 SF



5TH ELECTION DISTRICT

TAX MAP: 27 GRID: 04

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AS SHOWN SCALE **JMR** DRAWN BY RHV CHECKED BY AUGUST 2017 DATE 17-14 W. O. # 4 OF 5

SHEET#

PLOT PLAN

## JEREMY STATION - LOT 3

14885 TRIADELPHIA ROAD GLENELG, MD 21737 (L. 17169 / F. 17)

REF: GP-17-101

#### **OPERATION AND MAINTENANCE SCHEDULE FOR** PRIVATELY OWNED AND MAINTAINED STORMWATER DRY WELLS (M-5)

- 1. THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
- 2. WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
- 3. A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

#### MICROBIORETENTION NOTES:

1. ONLY THE SIDES OF MICROBIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICROBIORETNTION WILL CAUSE THE MBR TO FAIL, AND THERFORE SHALL NOT BE INSTALLED.

- 2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER GALVANIZED HARDWARE CLOTH.
- 3. PROVIDE 5' MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFERATED PIPE THROUGH STONE RESIVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS. (SEE PLANS)

#### OPERATION AND MAINTENANCE SCHEDULE FOR (M-6) MICROBIORETENTION AREAS

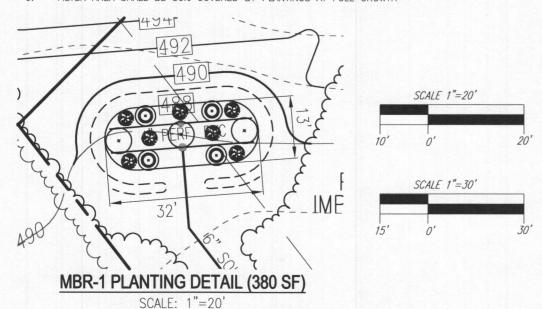
- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

		MICRO-BIORETENTION PLANTING SCHE	DULE (MBR-1)	
	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
$\odot$	3	LINDERA BENZOIN SPICEBUSH	5 GALLON	CONT
0	4	ILEX GLABRA INKBERRY	3 GALLON	CONT
<b>3</b>	7	VIBURNUM TRILOBUM AMERICAN HIGHBUSH CRANBERRY	3 GALLON	CONT

SF X 75% X .0229 STEMS PER SQUARE FOOT = PLANTS REQUIRED

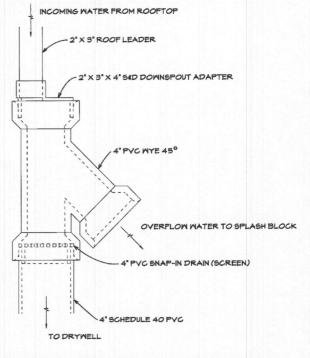
### "MICRO-BIORETENTION" PLANTING SCHEDULE NOTES:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AAN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HOWARD COUNTY PLANTING SPECIFICATIONS.
- 2 CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES. 3
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS 4
- FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN. MICROBIORETENTION AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (.0229 STEMS PER SQUARE FOOT). ABOVE PLANTING
- RATIOS ARE TO BE APPLIED TO THE AREAS PROVIDED IN THE ESDV SUMMARY. FILTER AREA SHALL BE 50% COVERED BY PLANTINGS AT FULL GROWTH 6.





### FIGURE 3 STANDARD DRYWELL DOWNSPOUT FITTINGS

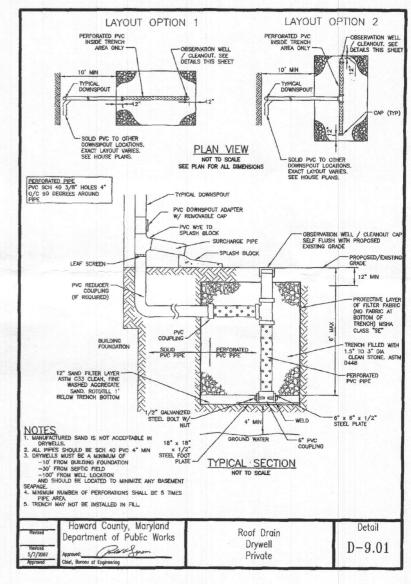


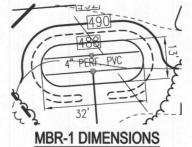
NOTES

- 1. THE SNAP IN SCREEN IS REQUIRED TO PREVENT CLOGGING OF THE DRYWELL
- MITH DEBRIS.

  2. SEE FIGURE 38 "LIST OF POTENTIAL SUPPLIERS TO ACCOMPANY FIGURE 3 STANDARD DRYMELL DOWNSPOUT FITTINGS" FOR INFORMATION ON SOME LOCAL RETAILERS THAT SUPPLY COMPONENTS FOR THIS SYSTEM.

Mortin B. Covington III, PE ORIGINALLY EFFECTIVE APRIL, 2006 REVISED MARCH 19, 2008 DISTRIBUTED AT C.C. SURVEYORS MTG.





SCALE: 1"=30

**OWNER** 

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### BUILDER

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PLOT PLAN

# JEREMY STATION - LOT 3

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REF: GP-17-101

PARCEL: 125 ZONED: RC-DEO HOWARD COUNTY, MARYLAND

AS SHOWN SCALE JMR DRAWN BY RHV CHECKED BY AUGUST 2017 DATE 17 - 14W. O. # 5 OF SHEET#

5TH ELECTION DISTRICT TAX MAP: 27 GRID: 04