

Bureau of Environmental Health

7178 Gateway Drive (410) 313-2640

Columbia, MD 21046 Fax (410) 313-2648

TDD (410) 313-2323

Toll Free 1-866-313-6300

website: www.hchealth.org

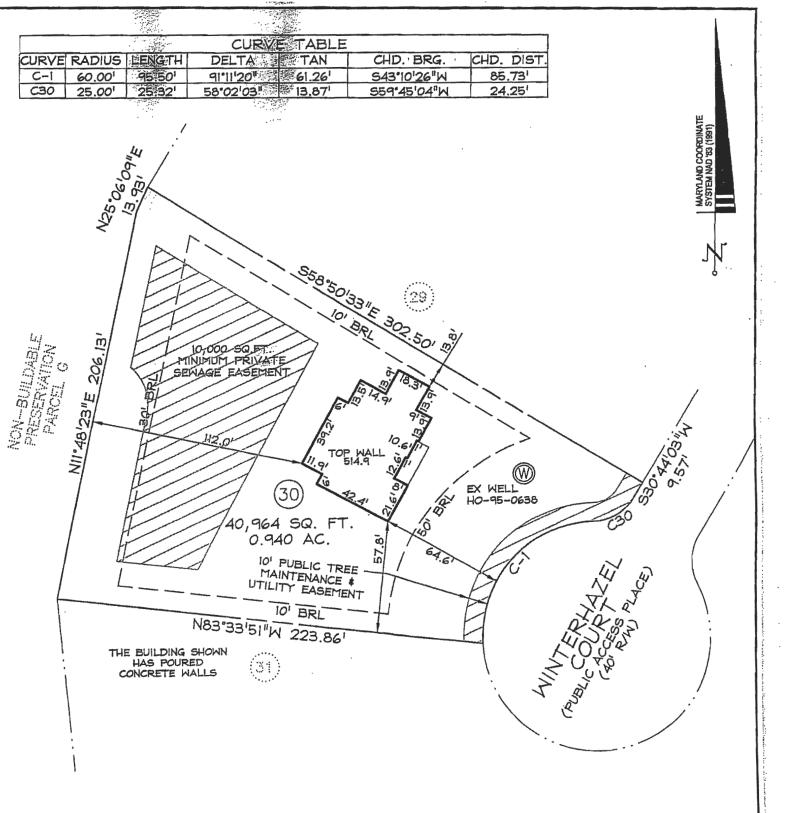
Maura J. Rossman, M.D., Health Officer

RECEIPT I	DATE: 7/24/14 ONSITE SEWAGE DISPOSAL SYSTEM	P _	554553
INSTALLA APPROVAL I	PERMIT	Α _	
	CONSTRUCTION		
PROPERTY A	DDRESS: 2914 Winterhazel Court		
SUBDIVISION	EDI: Belle Haven Estates LOT: 30 TAX II	D:	
CONTRACTO	R: Ben Lewis Plumbing EMAIL:		
CONTRACTO	R ADDRESS: 23407 Frederick Road, Clarksburg, MD 20871 PHO	NE:	301-674-3324
PROPERTY O	WNER: K Hovnanian Homes EMAIL:		
OWNER ADD	RESS: 1802 Brightseat Road, Landover, MD 20785 PHO	NE:	301-683-6268
BAT UNIT M	ODEL: HOOT ABNR 600 BAT UNIT SIZE: 60	Ю GPD	
PUMP CHAM	IBER CAPACITY (GALLONS): PUMP SIZE:		
NUMBER OF	BEDROOMS: 4 HOUSE SQ. FT. APPLICATION	ON RA	TE: 1.2
DISTRIBUTIO	N SYSTEM: GRAVITY FED 🔲 LOW PRESSURE DOSED		
	LINEAR FEET REQUIRED: SEE BAT PLAN 120 INLET DEP	·тн: :	SEE BAT PLAN 3
TRENCHES:	TRENCH WIDTH: SEE BAT PLAN 2. MAXIMUM BOTTOM DEP	 ? :::TH:	SEE BAT PLAN 7
	MINIMUM SPACE		
	BETWEEN TRENCHES: SEE BAT PLAN EFFECTIVE AREA BEGINNING DEP	тн: <u>-</u>	SEE BAT PLAN
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	STAKE	D BY LICENSED
	Set BAT unit and pump tank per plan.	hon	
NOTES:	Install 70' length treaches on contour.		
110125.			
ISSUED BY:	Andrew Geisert ISSUE DATE: 7-10-14 EXPIRATION	N DAT	E: 7:30-15
NOTE: CON	TRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY	'INSTA	LLATION
NOTE: CON	TRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIC	OR TO	COVERING
	NE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE	FOR RE	EVIEW.
	ERTIGHT SEPTIC TANKS REQUIRED PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER	W/EII	
	THOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS	****	
NOTE: AN E	LECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF	F THE S	YSTEM
NEITH	ER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESI	PONSI	BLE FOR THE

SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

CAPACITY SEAM LOC TO D TANK LID DEPTH   55-2) BAFFLES From BAFFLE FILTER No MANHOLE LOC FOOR HEREAV 6" PORT LOC NOVE WATERTIGHT TEST No SLOTTED N/A DATE ON LID DYY PUMP/SEPTIC TANK LEVEL N/A MANUACTURER CAPACITY GAL SEAM LOC TANK LID DEPTH BAFFLES BAFFLE FILTER MANHOLE LOC 6" PORT LOC WATERTIGHT TEST SLOTTED DATE ON LID  PRE-CONSTRUCTION:	WIDTH INLET BOTTOM  NUMBER OF TRENCHES 2  TOTAL LENGTH 1241  ABOUT MARKET OF TRENCHES 1245  DISTRIBUTION BOX BAFFLE YES  DISTRIBUTION BOX BAFFLE YES  MANUFACTURER MAYER BOTTOM  SEPTIC TANK LEVEL YES  MANUFACTURER MAYER BOTTOM  SEAM LOC DEPTH 1,55-21  BAFFLE BLYON  BAFFLE FILTER NO  SLOTTED NA  DATE ON LID DY  PUMPISETIC TANK LEVEL NA  MANUFACTURER  CAPACITY GAL  SEAM LOC TANK LEVEL NA  MANUFACTURER MAYER  CAPACITY GAL  SEAM LOC TANK  MANUFACTURER  CAPACITY  DATE ON LID DY  DATE ON LID DY				
SEAM LOC	PRE-CONSTRUCTION:  PRE-CONSTRUCTION:  HO-95-0638  PRE-CONSTRUCTION:  HO-95-0638  PRE-CONSTRUCTION:  SEAM LOC TANK LID DEPTH BAFFLES BAFFLE FILTER MANHOLE LOC 6" PORT LOC WATERTIGHT TEST SLOTTED DATE ON LID  DATE ON LID  PRE-CONSTRUCTION:  LOCATOR Addition of Algorithm Treatment of Andrew Contact of	28' 25'	\$6'	NUMBER OF TRENCHES TOTAL LENGTH 124 ABSORPTION AREA DISTRIBUTION BOX LEVEL DISTRIBUTION BOX BAFFLE DISTRIBUTION BOX PORT  SEPTIC TANK DAY SEPTIC TANK LEVEL MANUFACTURER  PUMP/SEPTIC TANK LEVEL MANUFACTURER	PA SES GAL LAND
PRE-CONSTRUCTION: 1=30 H0-95-0638	PRE-CONSTRUCTION:  HO-95-0678  15/14 BAT unit Starked per approved sit plan. Contract shat what to six plan. Adjusted algebring. Treated 200 to make, 2' wide Taket @ 3' below grade, bother death @ 7' below grade. Treated attacked a factor installation: Call for Insp. (120) 9/29/14 - upper trench open. Shot bothom trench elucation are was level throughout throughout verified up K. Wolf on site, shot invert elevation for lower trench and was level throughout, lower trench pipe installed up stone and quotextile cloth installed; stone tickets provided stone looks gord and soil is a good sandy loam - ok to continue (22) 9/39/14 - upper trench complete pipe laid			MANUFACTURER  CAPACITY  SEAM LOC  TANK LID DEPTH  BAFFLES  BAFFLE FILTER  MANHOLE LOC  6" PORT LOC  WATERTIGHT TEST  SLOTTED	GAL
	throughout, lower trench pipe installed w/ Stone and quotextile cluth installed; stone tickets provided stone looks gord and soil is a good sandy loam - ok to continue (PE) 9/30/14- upper trench complete pipe laid	Ho-95-0638			Close



## SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE.

I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 239, EXPIRATION DATE 7/6/16.

THE OF MICHAEL P. Sauthur 7-17-14



## SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE.

I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 239, EXPIRATION DATE 7/6/16.

EXPIRATION OF MALE

BQ

Barrick Dispatch Barrick Sale 301-845-6343 301-845-6341

CUSTOMER LEWBEN

BEN LEWIS INC. 23407 FREDERICK RD we are an Equal Opportunity Employer

S.W. Barrick & Sons WOODSBORO, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

BILLING INQUIRIES 1-800-762-2294

TICKET #01071812

STATION B

DATE 89/29/14 TIME 11:12:27

JOB BELHAV : BELL HAVEN

P. D. # 30903 PROJECT #1

70 - R 975 - R UNION CHAPEL RD-

L BRIDGLWREATH CT. TO ADD "2803"

TRUCK 649E LICENSE

CLARKSBURG, MD 20871

DRIVER: HUFFER TRUCKING

XN

BCALE B

(STORED)

69800 1b 23800 lb

3 AXLES

46000 16

23.00 -

LOT 29

DALLY

TOTAL

Loads

13

45,84 277.44

TIME IN 11:12:27

TIME OUT 11:12:27

Tone

MAT'L 22W : DBL WSHED MDAZ STONE

HALL ZONE HOP

GROSS TARE

NET

NET

METCHMASTER

Sally Gardner

Hays a Nice Day!

MECE IVED BY

LOT 30

301-674-3324

BQ

rrick Dispatch Barrick Sale 11-845-6343 301-845-6341

tre are an Equal Opportunity Employer S.W. Barrick & Sons

WOODSBORO, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

**BILLING INQUIRIES** 1-800-762-2294

TICKET #01071798

STATION B

DATE 09/29/14 TIME 10:44+17

STOMER LEWBEN

N LEWIS INC. 407 FREDERICK RD ARKSBURS, MD 20871

LOT 29

LICK 696B LICENSE LUER: MANNY TRANSPORT

SCALE A 085 69660 16 (STORED) RE FIL 25180 Ib

> 44480 1b 22.24 t

3 AXLES

Loads Tons DAILY 22,24 254.44 12 TUTAL

70- R 975- R UNION CHAPEL RD-

L BRIDALWREATH CT. TO ADD "2803"

JOB BELMAU : BELL HAVEN

P+O. # 30903 PROJECT #1

TIME IN 10144117 TIME OUT 10:44:17

T'L 22W : DBL WSHED MD#2 STONE UL ZONE HOS

I GHMASTER \_

Sally Gardner

Ve a Nice Bay!

LOT 30

301-674-3324

BQ

arrick Dispatch Barrick Sale 301-845-6343 301-845-6341

# S.W. Barrick & Sons

WOODSBORO, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725 INSPECTOR'S COPY

1-800-762-2294

TICKET #01071821

STATION B

DATE 09/29/14 TIME 11:28:25

ISTOMER LEWBEN

N LEWIS INC. 8407 FREDERICK RD ARKSBURG, MD 2087L

NUCK 513C LICENSE

ERY KENLEY HUBBLE

RDSS SCALE B 68320 1b RE IN (STORED) 20660 1b TT 47460 1b 23.73 t

IT'L 22W : DBL WSHED MD#2 STONE

YOHMASTER

Sally Gardner

we a Nice Day!

JOB BELHAV : BELL HAVEN

P.O. # 30903 PROJECT #1 70- R 975- R UNION CHAPEL RD-L BRIDGLWREATH CT. TO ADD "2803"

LUT 29

3 AXLES

DATLY 3 68.97
TOTAL TA 301.17
TIME IN 11:28:25 TIME DUT 11:28:25

RECEIVED BY

301-674-3324 ANDY

For food



# MAYER BROS., INC.

Precast Concrete Products 6264 Race Rd. Elkridge, MD 21075

# Letter of Satisfaction Hoot System Installation

Address of Property:	2914 Winterhazel Ct.	Lot 30
Woo	dbine, MD. 21797	
Date of Final Inspection:	10/14/14	
Installer: Ben	Lewis Plumbing	programme or remarks design at the first of the second or
Hoot Technician/Inspector	: Mitre Sample	
	oot system installed at the property listed above has be installation practices. I have also verified the startup of er.	
Sincerely.		
Name of Inspector	)ap	
Mayer Bros. Inc.		

PH: 410-796-1434

FX: 410-796-1438

WBE NPCA Certified Plant

mayerbro@connext.net www.mayerbrosprecast.com



## Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147 'Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

> 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 23 day of July 2014, among

K. Hwww from of Maylor 2 Life, 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 2914 WINTERMS WOUND WOUND WITH 2797, in the Of 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 15596 Folio (245).

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.

NOW, THEREFORE, the parties hereto agree as follows:

- 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

ZYIY WINIWATED UN WEDJEN Clerk of the Circuit Court for NO. 21797
Howard Genty
Land Records/Licensing The Thomas Dorsey Building 9250 Bendix Road Columbia, MD 21045 410-313-5850 R - Agreement Recording Fee 1x 20.00 20.00 lrantor/Grantee Name: Khovnanian Reference/Control #: 158 R - Agreement Surcharge 1x 40.00 40.00 JubTotal: 60.00 60.00 otal: \_\_\_\_\_\_ 60.00

REV-Check-BOA lumber: 16925

CC13-NN

17/23/2014 14:00 CC13 13076290 /494/109 Thank you for visiting us today

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.

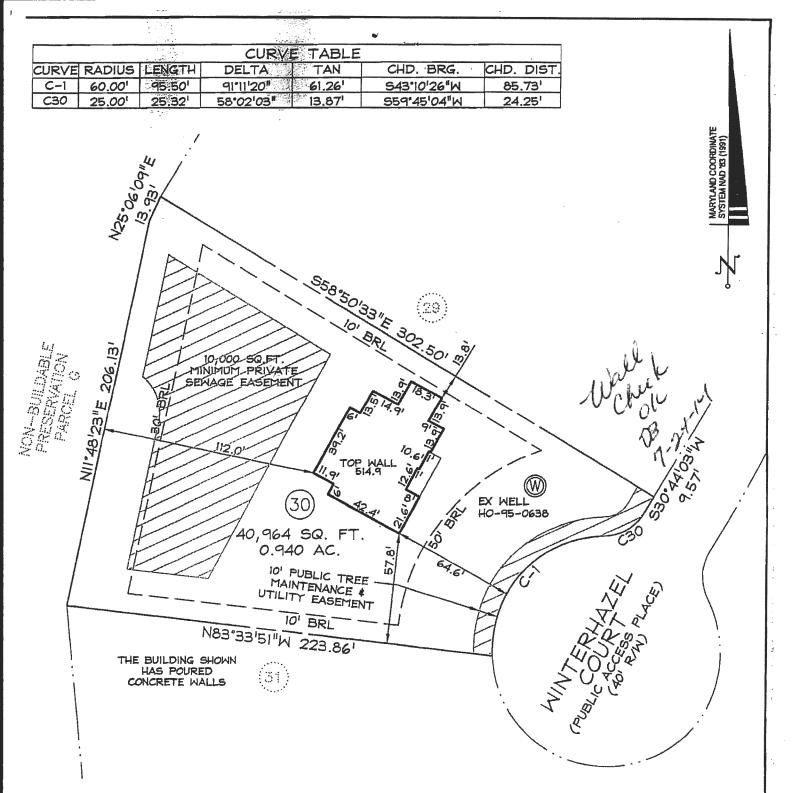
IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Owner P. KARINAMENT Date boy/4 Owner Date

Many Controvor Stand Shymore

Many Controvor 7/23/4

Howard County Health Department



# SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE.

I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 239, EXPIRATION DATE 7/6/16.

WHITE OF MERITAL OB STATE TO 17-17-14



Homes /	A	TTENTION TENTION	
		, ,	- A-
K. Hovnanian Homes of MD, LLC	-	Balle HANNA	CAVIA 101 (30)
802 Brightseat Rd. • Landover, MD 20785 301-772-8900 • 301-772-8925 Fax	-	001/1.1	1 0-
		2914 WIA	MUHAZY CT.
TO House COURTY HEAPEN DESPRESENT	w7		
So MR JEFF WINIAM			
WE ARE SENDING YOU Attached Under sep	arate cover via	the fo	ollowing items:
☐ Shop drawings ☐ Prints	Plans	☐ Samples ☐	Specifications
☐ Copy of letter ☐ Change Order			
COPIES DATE NO.		DESCRIPTION	
DOC 16762 08	TRANSMITTA	V/W/10 PCS MANE	STICK
3 REVISED BAT	DIALI	4/4/14 RESPANK	12140
3 FOUNCE UNI	KWW		
THESE ARE TRANSMITTED as checked below:			
☐ For approval ☐ Approved	as submitted	Resubmit	copies of approval
☐ For your use ☐ Approved	as noted	Submitcop	ies for distribution
		Return	corrected prints
For review and comment -			and the state of t
☐ FOR BIDS USE	_ 20	PRINTS RETURNED AFTER	LOAN TO US
REMARKS			
		- AAAA	
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			10
COPY TO		MMM	WILL
	SIGNED:		$(\mathcal{I})$

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL



				ATTENTION	
				RE: DIII	
K. H	Iovnanian Ho	mes of MD, Ll	LC	Belle H	AVEN ESTATES 107 (30)
		Landover, MD			
		01-772-8925 F		2914	Winter Harel CT.
	•			FIIT	WINISCHALL U.
TO	MONARD	COUNTY TEA	An Deparament		
		ľ			
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	☐ Shop draw	vings 🗆 Prir	nts 🗌 Plans	☐ Samples	☐ Specifications
	Copy of le		ange Order		
COPIES	DATE	NO.		DESCRIPTION	
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			V		
THESE A	ARE TRANSMIT	TED as checked b	pelow:		
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	☐ For your u	ise	☐ Approved as noted	Submit	copies for distribution
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If enclosures are not as noted, kindly notify us at once.

240-375-4575

LETTER OF TRANSMITTAL



Reference:

Mr. Jeffrey Williams Well & Septic Program Supervisor **Howard County Health Department** 8930 Stanford Blvd. Columbia, MD 21045

Belle Haven Estates, Lot 30

2914 Winterhazel Court

**BAT Site Plan** 

**DDC Project No.:** 

April 24th, 2014

06116.5

Mr. Williams,

The following are responses to comments issued on April 23rd, 2014 (via email) for the above referenced project.

Comment: The BAT tank is less than 100' from the well box. It must be relocated outside of 100'

Response: The BAT tank has been shifted outside of the 100' well box setback per your request.

Comment: Please indicate in the pump notes that the pump will be set to run for 1 minute at a time for a dose of 47g.

Response: The dose of 47 gal, with a pump run time of 1 minute was added to the pump notes per your request.

We believe these responses adequately address your comments. Should you have any questions please do not hesitate to contact this office.

**Planners** Surveyors Engineers Landscape Architects

192 East Main Street Westminster, MD 21157

> 410 386 0560 Fax 410 386 0564

> > DDC@ DDCinc.us www.DDGnc.us

> > > Very truly yours,

Development Design Consultants, Inc.

Joshua H. Kline, E.I.

Engineer



Homes	4/24/14
	ATTENTION
K. Hovnanian Homes of MD, LLC	RE: Balle HANN ESTATES UT (30)
802 Brightseat Rd. • Landover, MD 20785	
301-772-8900 • 301-772-8925 Fax	2914 WIMMHARD CT.
TO House Covery Haster Department	ZIII WINISCHINED O
TROUBLE WAY THOU WAY	
YO MR JEST WINING	
WE ARE SENDING YOU Attached Under separate cover via	the following items:
☐ Shop drawings ☐ Prints ☐ Plans	☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change Order ☐	
COPIES DATE NO.	DESCRIPTION
	, 4/24/14 RESPONK /27/4N
DOC LETTER OR TRANSMITTED  REWISCO BAT DLAW	, 17 61/14 165 PONTE 12140
3 REWISCO BAT plans	
THESE ARE TRANSMITTED as checked below:	_
	Resubmit copies of approval
	Submitcopies for distribution
As requested	Returncorrected prints
For review and comment -   FOR BIDS USE	T PRINTS RETURNED AFTER LOAN TO US
	- PRINTS RETURNED AFTER LOAN TO 03
REMARKS	
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COPY TO	M. C. miller
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If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL



		1	101116			ATTENTION	19
302 Br	Hovnanian Heightseat Rd. • : -772-8900 • : Heward	• Lando 301-77	over, MD 2-8925 F	20785	7		HAVEN ESTATUS 107 (30) 4 WINTER HAZE CJ.
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If enclosures are not as noted, kindly notify us at once.

240-375-4575

LETTER OF TRANSMITTAL

JOB NO.

## Williams, Jeffrey

From:

Williams, Jeffrey

Sent:

Wednesday, April 23, 2014 12:18 PM

To:

Brian Collins

Cc:

'cwillett@khov.com'

Subject:

Belle Haven Lot 30

I've reviewed the BAT plan for lot 30 and have the following comments for revision:

- The BAT tank is set less than 100' from the well box. It must be relocated outside of 100'
- Please indicate in the pump notes that the pump will be set to run for 1 minute at a time for a dose of 47g.

### Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

### CONFIDENTIALITY NOTICE

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## Geisert, Andrew

From:

Geisert, Andrew

Sent:

Friday, May 02, 2014 3:42 PM

To:

'ddc@DDCinc.us'

Subject:

Belle Haven Estates Lot 30 BAT Plan review

Joshua Kline,

The following are my review comments for Belle Haven Lot 30.

- Scale label 1"=30"
- Include 507.2' trench ground elevation at the beginning of trench.
- Pipe slope % from tank to D-box
- Pipe slope % from d-box to field
- Show riser and top tank elevation on septic system profile

Andrew Geisert

Environmental Sanitarian Supervisor Howard County Health Department

Bureau of Environmental Health

Office: 410-313-6287 Fax: 410-313-2648

ageisert@howardcountymd.gov

## CONFIDENTIALITY NOTICE

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Planners Surveyors Engineers

Landscape Architects

192 East Main Street Westminster, MD 21157

> 410 386 0560 Fax 410 386 0564

> > DDC@ DDCinc.us www.DDCinc.us

# LETTER OF TRANSMITTAL

го:		County me	alth Department				
		f Williams					
		anford Bou	evard				
		a, MD 2104			***************************************		VIII
DATE:	04/2	25/2014	PROJECT NO:	06116.5	5		
PROJECT:	Belle	e Haven Es	states – Lot 30				
<b>N</b> E ARE SEN	DING:	( X ) HEREWIT	н				
		( ) UNDER SER	PARATE COVER				
SENT VIA:			MAIL ( ) FEDERAL EXPRESS ( ) YOUR MES				
		( ) EXPRESS N	IAIL ( ) OUR MESSENGER ( )				
NO. COPIES	DWG.	DWG. DATE	DESCRIPTION / TITLE	E	PRINT	MYLAR	OTHER
2	1 of 1	04/25/14	Revised BAT Site Plan – Lot	30	Х		
1			Comment Response Letter				X
							<u> </u>
- 1					+	t	

GENERAL NOTES

IARE FOOTAGE OF HOUSE: 8,720 50.PT

- NEERAL NO LECTURE OF HOUSE 5,70 SQ.FT.

  NUMBER BOUMRE FOOTNEE OF HOUSE 5,70 SQ.FT.

  NUMBER OF BEAUTIEST TO BENER BASETINIT

  BOX PARAY CULTURET IS NOT REQUIRED PER THE APPROVED ROAD

  DRAINING, F-07-26.

  THE SUBJECT FROPERTY IS ZONED RC-DED PER THE 27/JA4

  COMPRESSION OF THE SONE OF THE THE COMPOUNT TO THE SUBJECT FROM THE SONE OF THE THE SONE OF THE THE SONE OF THE THE SONE OF THE SONE OF
- DATED 7/25/04.

  9. PLAT REFERENCE 18946

  5. BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS
  PREPARED BY DYM, AND DATED 06/25/07, DUSTING TOFGGRAPH/LTAN'S
  BASED ON GRADING PLAN PREPARED BY DEPLAND DESIGN CONDUCTANTS
  DATED 07/04/07 AND PLED JRIN TOFGGRAPHY PREPARED BY DIC JRIC IN
- DATED OT/OWOY AND PIELD RUN TOPOGRAPHY PREPARED BY DCC. INC. 19.30.

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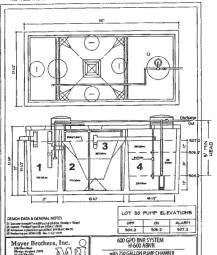
- BHALL BE REPAIRED IPHEDATELY AT THE CONTRACTORS EXPENSE IN
  ACCORDANCE HITH THE LONDAR COUNTY STANDARDS AND
  ACCORDANCE HITH THE ENAMS AND SPECIFICATIONS HITHOUT PRIOR
  BUTTERS CONSIST OF THE COUNTY BRIDER FOR HITHOUT PRIOR
  BUTTERS CONSIST OF THE COUNTY BRIDER FOR FORD TO BE IN
  TO DEPENDENCH DISTANCES BHALL GOVERN IF SCALED AND
  DIFFERENCED DISTANCES OF THIS PLAN ARE FORD TO BE IN
  DISSACRETION.

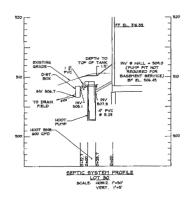
  THE SOURCE BY THE THE FORM THE THE THINTER LOT AREA AND
  CONSISTENT HIGH AS DESIGNATES A FRANCE SPRACE DEPOSAL SHARE OF THE
  BONISON HISTORY AS DESIGNATES A FRANCE SPRACE DEPOSAL SHARE OF THE
  LOSS OF THE SOURCE BY THE THE AREA AND DEPOSATION OF THE SOURCE BY THE THE AREA AND DEPOSATION OF THE SOURCE BY THE THE AREA THE DEPOSAL SHARE SHALL BE DOTE OF CONTROL OF A PIBLIC SHAREAGE STITET. THE COUNTY SELAND OFFICE SHALL BUT AND ALL AND THE AREA SHALL BESTER BY ALL AND TO BE UNDER CONTROL OF A PIBLIC SHAREAGE STITET. THE COUNTY SELAND OFFICE SHALL BUT AND ALL AND THE CONTROL OF A PIBLIC SHAREAGE STITET. THE COUNTY SELAND OFFICE SHALL BUT AND ALL AND THE PIBLIC SHAREAGE STATES.

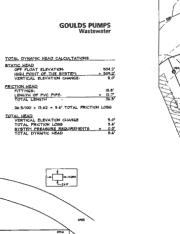
  EXPENSED SHARE SHALL BE TO SHALL SHOW ON THE AREA SHALL BE SHARE AND A PIBLIC SHAPE AND A PIBLIC SHAREAGE STATES. THE COUNTY SELAND OFFICE SHALL BUT AND A PIBLIC SHAPE AND A

- THE CONTROL OF THE STATE OF THE
- SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES THE STSTEIN DEST AVAILABLE TECHNOLOGY (BAT) NOTES: ANY CLAMBE TO THE LOCATIONS OR DETHIE TO ANY COMPRENIS HUST BE APPROVED BY THE ENGINEER AND THE HOMARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SHIT BAN HAY BE REGULATION THE HANTHAN BOTH OF THE BAT PER THE HANDFACTUREN'S SPECIFICATION IS S

- THE BAT SHALL BE OPERATED BY AND HAINTAINED BY A CERTIFIED BERVICE PROVIDER.
  HITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT BYSYET HAINT ON ONE MONTH OF INSTALLATION, TO THE ADDRESS HAVE DATE OF CONFIDENCE (100) IN A FANNER ACCEPTABLE TO FIG., THE ADDRESS HAVE DATE OF CONFIDENCE OF THE BATTER ACCEPTABLE TO FIG., THE ADDRESS HAVE DATE OF CONFIDENCE OF THE BATTER AND FARMED THE ADDRESS HAVE DESCRIBED BY ALLICHBED ELECTRICIAN. AND FALSHOTH THAT BE COPPLETED AND SOUND BY ALL APPLICABLE PARTIES AND SOUNDED IN LADIR ECORORS OF HANDARD COATTY.
  APPLICABLE PARTIES AND THE TRANSPORT OF THE START-UP CERTIFICATION FROM THE HANDACTURE PRIOR TO FINAL APPROVAL OF THE MOSTALLATION FROM THE HANDACTURE PRIOR TO FINAL APPROVAL OF THE MOSTALLATION.





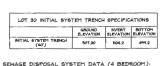


PERFORMANCE RATINGS

STATIC HEAD

DISTAL END HEAD TAL DYNAMIC HEAD 8.6" GALLONS PER MINUTE 47 GPH PUMP RUN TIME I MIN

8.0 (MIN)



SEMAGE DISPOSAL SYSTEM DATA (4 BEDROOM):
INVEST POUNDATION HAID, BOOK (BASEPOINT PUPP REQUIRED)
2. 600 GPD ENS SYSTEM NV 750 GALLON PUPP CHAMBER
EX. GRACE OVER TANK, 500.2
INVEST, 507.3
INVEST, 507.

INVEXT. 509.1

INVEXT. 509.1

INCHAIN DESIGN (4 BDRY Is 180 GPD/BDRY = 600 GPD)

400 GPD / 1.2 GPD/SF (APP, RATE) = 500 GP

180 GPD / 1.2 GPD/SF (APP, RATE) = 500 GP

187 HIN SPACING BETHERIN TREMCH EDGES

187 HIN SPACING BETHERIN TREMCH EDGES

180 GF / 2 STRIPT + 1647 IF 0.55 = 40 LF FINN TREMCH

100E 1 - 60' LORG TREMCHES = 60 LF FOR HITAL STRIPT STRIPT

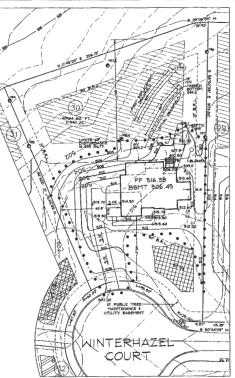
181 - 60' LORG TREMCHES = 60 LF FOR FINTAL STRIPT

187 HIN STRIPT

187 LF FOR FINTAL STRIPT

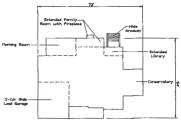
187 LF FOR FINTAL REPORTS

1



SCALE - 1"=50"

BENCHMARK BURNEY CX ADC MAP DOORDNATES Approved Sent - System Plan -Howard County Health Decarment andew Seet 37444 VICINITY MAP SCALE: 1" = 2000"



COLORADO ELEVATION 'A' BRICK AND STONE FRONT

DATA SOURCES:

DRAWING LEGEND

. . . . PROPOSED LIMIT OF DISTURBANCE

--- + 665.5 PROP. SPOT ELEV./FLOW ARROW

BUFFER 20' BEPTIC RESERVE

----- EXISTING 100' HELL BUFFER ----- BUILDING RESTRICTION LINE

SEPTIC RESERVE AREA

HELL AREA

O127 FAILED PERCOLATION TEST

192 East Main Street Westminsser, MD 21157 410.384.0560 410.386.0564 (Faz) 00C@ 00Grc.us www.DOCincus levelanment flexion Consultants

BELLE HAVEN ESTATES

DEVELOPER

SITE PLAN FOR BAT INSTALLATION



DRN. REV. DATE NO. DESCRIPTION OF CHANGES CO. FLE & DES. BY: JHK TAX ACC. 6: TAX MAP: 14 CHIK, BYY: PGC/BYC: BLOCK / CRED DATE: 05/06/14 DDC JOB#:08118.5 PARCEL #: 88 ZONE / USE: RC-DED SHEET NUMBER: PAUL G. CAVANAUGH, P.E. DWG. SCALE: 1"=30"



- GENERAL NOTES

  1. MAIS SOURS FOOTAGE OF HOUSE 1, 720 SOFT.

  1. MAIS SOURS FOOTAGE OF HOUSE 1, 720 SOFT.

  1. MAIS SOURS FOOTAGE OF HOUSE SASSINGTH FOR THE APPROVED ROAD

  2. ELECTOR PHY REGULED TO SOHER BASINGTH FOR THE APPROVED ROAD

  2. MAIN SOURCE FROMERY IS NOT REGULED FOR THE APPROVED ROAD

  2. THE SUBJECT PROVERTY IS OADER NOT-DOT RIT THE APPROVED ROAD

  2. MAIS INFORMATION SICKING PLAN AND PER COMPLITE ZORNING REGULATIONS

  3. PLAT REPREDICT. SHOPE

  4. BASE INFORMATION SICKING ON THIS PLAN IS BASED ON PLANS

  PREPARED TO THIS ADMINISTRATED BY DEVANO DESIGN CORGULATIONS

  DATED OTOMOTORY OF THE DEVANO DESIGN CORGULATIONS

  DATED OTOMOTORY ON PREPARED BY DEVANO DESIGN CORGULATIONS

  DATED OTOMOTORY ON THE DEVANO PREPARED BY DOC INC IN JAN 2017.

  JAN 2017.

- PREMARED BY DIFFL, AND DATED OUZPIOT, ENRIFINE TOPOGRAPHY
  BASED ON GRADING PLAN PREMARED BY DEVENO PERSON DOCUMENTS
  AND TOPOGRAPHY AND PLAN PREMARED BY DEVENO PERSON DOCUMENTS
  AND TOPOGRAPHY AND PLAN PREMARED BY DEVENOUS PROPERTY.

  SEE ARCHITECTURAL PLANS FOR BUILDING DIFFERENCES AND DESIGN
  ON REPUBLICIPES RESPONSIBILITY TO PROVIDE DICE, NO. 144TH THE
  PROPERTY SET OF HOMES.

  THE CONTRACT OF SIRRED PLANS.
  AND THE CONTRACT AND PROPERTY THE SEPARTY PRINCE TO
  THE START OF HOMES.

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  TO THE START SHART SHART HOMES UTILITY AT 1-400-397-TITT AT
  LEAST POTATY—HIGHT (46) HOURS PRINCE TO ANY ESCANATION PRINCE
  BEING DOME.

  TO THE START OF HOMES.

  TO THE START SHART SHART HOMES SHART OF HOMES.

  TO THE START SHART SHART HOMES TO THE START OR PROVIDED PER THE
  PREVIOUSLY APPROVED PINAL PLAN (F-07-39).

  ANY DATAGET TO PRINCE THE GRAD TO HOME AND PROVIDED PR
- SHOHN, ANY CHANGES TO A PRIVATE SEHAGE AREA SHALL REQUIRE A REVISED

- 17. ANT CHANGES TO A FRANCE BRANCE AREA BALL REGINE A RIVISED PERCALITION CESTIFICATION FIRST SET ALL PROPOSED STRUCTURES, and OR LOSSING PRESCRIPTION OF ALL PROPOSED STRUCTURES, and OR LOSSING PRINCIPLES CONNECTED BY THE DIVISION OF THIS LOT DOES NOT REGISE AN ENVIRONMENTAL COCKETT FLAM SPICE STORMATTER THANGESTED THAN PREFORD A PROPOSED LINES F.-07-38.

  SEPTIC STSTEPLYBEST AVAILABLE TECHNOLOGY (BAT) NOTES:

  1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COPPORERTS HIST EXPROVED OF THE BENIFES AND THE MONARC COUNTY HEALTH DEPARTMENT AND THE PROPOSED OF THE BENIFES AND THE MONARC COUNTY HEALTH DEPARTMENT.

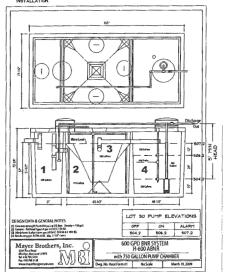
- PEET.

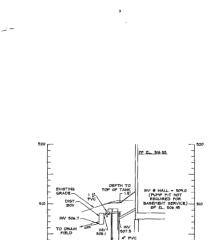
  5. THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE HANNFACTURE'S SPECIFICATIONS.

  4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- SYSTEM.
  THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED BERVICE
- THE BAT BHALL BE OPERATED BY AND MANTAHED BY A CENTIFIED SERVICE PROCIDER.

  PROCED BY A STATEMENT OF THE BAT SYSTEM BHALL REPORT TO THE PARTHAND CENTARTHENT OF THE BHALL PROCESS.

  BAT AND A CONTROL OF THE BAT STATEMENT OF THE PROCESSED BY A ELECTRICAL MORK FOR THE BAT SYSTEM AND THE PROCESSED BY ALL PROCESSED BY AND A STATEMENT AND A MARKETISM AND A STATEMENT AND A





SEPTIC SYSTEM PROFILE

SCALE: HORIZ, 1"+80" VZRT, 1"=9"

PERFORMANCE RATINGS

STATIC HEAD 5.0 (MIN)

DISTAL END HEAD O'
TOTAL DYNAMIC HEAD 6.6'
GALLONG PER HINUTE 47 GPT1
DOSE

PUMP RUN TIME

5.6'

) MIN

**GOULDS PUMPS** 

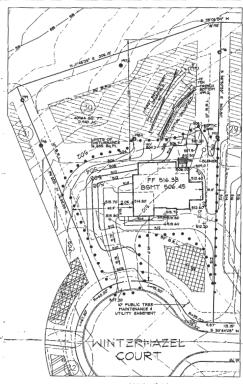
TOTAL DYNAMIC HEAD CALCULTATIONS

26.5/100 x 83.62 + 3.61 TOTAL FRICTION LOSS

TOTAL NEAD
VERTICAL ELEVATION CHANGE
TOTAL PRICTION LOSS
SYSTEM PREASURE REQUIREMENTS +
TOTAL DYNAMIC HEAD

OFF FLOAT ELEVATION

FRICTION HEAD TOTAL LENGTH



SCALE - 1"+30"

#### 11-45" - boofton (11.8)

LOT 30 INITIAL SYST	TEM TRENCH	SPECIFIC	ATIONS	
	GROUND ELEVATION	INVERY ELEVATION	BOTTOM	255 40.
INITIAL BYSTEM TRENCH (60)	507.20	804.2	499.2	1.7.

SENAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

1. INVERT # FOUNDATION HALL: SOND (BASETISHT FUPP REQUIRED)

2. 600 GPD BING SYSTEM HO SOALLON FUPP CAMPBER

\*\*FREYORD GRADE OVER TANK: SIG.2

INVERT: SOT.3

5. DISTRIBUTION BOX

5. DISTRIBUTION BOX

6. STRIBUTION BOX

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6. STRIB



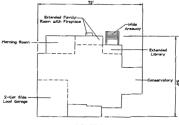


Approved Sent - System Plan Howard County Health Department





VICINITY MAP SCALE: 1" = 2000



COLORADO ELEVATION 'A'
BRICK AND STONE FRONT

DATA SOURCES:

#### DRAWING LEGEND

502 PROPOSED GRADE

+ 665.5 PROP. SPOT ELEV./FLOH ARROH

DOPPERED 20' SEPTIC RESERVE ---- EXISTING BO' WELL SUFFER

EXISTING NO HELL BUFFER ---- BUILDING RESTRICTION LINE

HELL AREA O<sub>174</sub>

PASSED PERCOLATION TEST 127 FAILED PERCOLATION TEST



DEVELOPER:

SITE ADDRESS: LOT 30 2014 Wigherhaumi Court Waxedone, Marytanai 2170;

and ELECTION DISTRICT

BELLE HAVEN ESTATES

SITE PLAN FOR BAT INSTALLATION



PAUL G. CAVANAUGH, P.E.

DRN. REV. DATE NO. DESCRIPTION OF CHANGES CO. FREE DES. BY: JHK TAX ACC R DRINL BY: JHK TAX MAP: 14 CHX. BY: PGC/BKC BLOCK / GRID: DATE: 06/06/14 PARCEL #: 68 DDC JOB#:00116.5 ZONE/USE: RC-DGO SHEET MAMBER DWG. SCALE: 1%30

GENERAL NOTES

- ENERAL NOTES DAME FOOTAGE OF HOUSE B, 720 SG.FT.

  MADE SQUARE SQUARE FOOTAGE OF HOUSE B, 720 SG.FT.

  MADE SQUARE SQUARE FOOTAGE SQUARE SQUA
- PLAT REFERENCE (1994)
  BASE INFORTATION BHOWN ON THIS PLAN IS BASED ON PLANS
  PREPARED BY DHM, AND DATED DO/TE/DYT. EXISTING TOPOGRAPHY
  BASED ON GRADING PLAN PREPARED BY DEPLAND DEBAGK COMMUTANTS
  DATED OT/OP/OT AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN
  ALL DOIS OF THE PROPARE OF THE PROPARED BY DOC INC IN
  ALL DOIS OF THE PROPARED BY DOC INC IN

- OR PROPOGIO SETTIC SYSTEMS OR SENARE DISPOSAL AREAS MAYE BEEN SHOWN.

  SHOWN.

  SHOWN.

  SHOWN SHOW
- 2. THE PASITION OF THE BAT PER THE PASITIONED SPECIFICATION IS SPECIFICATION AS A PRESENCE OF THE THEORY AND THE COLORED PORTS THAN 10 PEET PROH THE TANK BASED ON THE PASITIONES SPECIFICATIONS.

  4. THE BAT STREET IMALL BE HAINTAINED AND OPERATED FOR THE LIFE OF THE STREET.

  5. THE BAT SHALL BE OPERATED BY AND HAINTAINED BY A CERTIFIED SERVICE.

- THE BAT SHALL BE OPERATED BY AND HANTANED BY A CERTIFIED SERVICE PROVIDER.

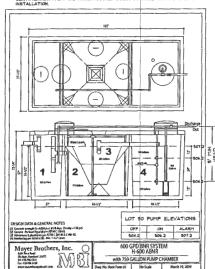
  HITHIN ORIE HONTH OF INSTALLATION, A PERSON HISTALLING THE BAT SYSTEM HITHIN ORI HONTH OF INTERPARTMENT TO THE ENVIRONMENT (HOD) IN A BAT, INSTALLATION AND THE TYPE OF BAT INSTALLED.

  ELECTRICAL HORN FOR THE BAT INSTALLED.

  ELECTRICAL HORN FOR THE BAT INSTALLED.

  LICENSED BLECTRICAN.

  AN ACCESSIBLY AND AD EAST RECORD TO THAN EXCEPT AND SHAND BY ALL AND ACCESSIBLY AND ADDITIONAL THE HALTH DEPARTMENT REQUIRED DOWNSTATION FOR THE START-UP CERTIFICATION FOR THE HANDFACTURED PROVIDED TO THE BATART-UP CERTIFICATION FOR THE HANDFACTURED PROVIDED TO THE BATART-UP CERTIFICATION FOR THE HANDFACTURED PROVIDED TO THE BATART-UP LICENSED FOR THE START-UP LICENSED FOR THE STAR





### **GOULDS PUMPS**

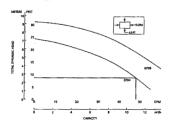
8.8

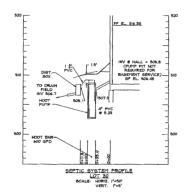
Total Head	Get kan	n Per est
(	EP04	EPOS
5	23	-
10	46	13
15	36	53
20	21	46
25	. 0	23
30	-	11

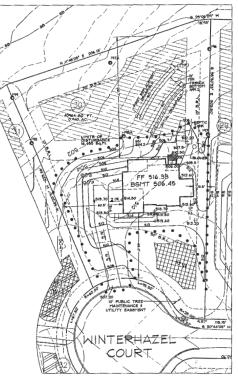
TOTAL DYNAMIC HEAD CALCULTATIONS		_
OFF FLOAT ELEVATION HIGH POINT OF THE SYSTEM		504.: 509.:
VERTICAL ELEVATION CHANGE	_	5.
ERICTION HEAD PITTINGS:		15.6
LENGTH OF PVC PIPE	+	11,6
TOTAL LENGTH		29.0
25.6/100 x 18.62 = 8.5' TOTAL PRICTIO	N	£69

TOTAL HEAD
VERTICAL BLEVATION CHANGE
TOTAL PRICTION LOSS
SISTEL PERSONNE REQUIREMENTS +
TOTAL DYNAMIC HEAD

STATIC HEAD	BO (MIN
FRICTION HEAD	3.51
DISTAL END HEAD	O <sup>j</sup>
TOTAL DYNAMIC HEAD	5.5'
GALLONS PER MINUTE	47 GPH







LOT 30 INITIAL SYSTEM TRENCH SPECIFICATIONS								
			GROUND		INVERT ELEVATION	BOTTOM		
INITIAL	5Y	STEM TRE	HCH		507.20	804.2	499.2	

- SEHAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

  1. INVERT # ROUNDATION HALL SOS & (BASEMENT PUMP REQUIRED)

  2. 600 GPD BMS SYSTEM NO GALLON FINEY CHAMBER

  EX. GRADE OVER TANK. 50.5

  DISPOSATE SOT.

  5. DISPOSATE SOT.

  5. DISPOSATE SOT.

  6. DISPOSATE SOT.

  6. TREBUT OR BOODER AND OVER TANK. 50.5

  NIVERT SOS.

  6. TREBUT DESIGN (4 BORRY X 90 GPD) DESIGN OVER TANK. 50.6

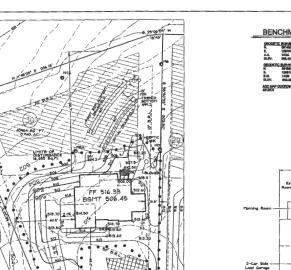
  6. TREBUT DESIGN (4 BORRY X 90 GPD) DESIGN OVER TANK. 50.6

  6. TREBUT DESIGN (4 BORRY X 90 GPD) DESIGN OVER TANK. 50.6

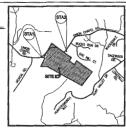
  6. TREBUT DESIGN (4 BORRY X 90 GPD) DESIGN OVER TANK. 50.6

  6. TREBUT DESIGN OVER TANK. 50.6

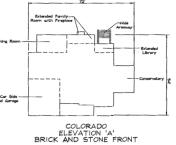
  6. TREB







VICINITY MAP SCALE: 1" = 2000"



DATA SOURCES:



502 PROPOSED GRADE . . . . PROPOSED LIMIT OF DISTURBANCE

PROPOSED 20' BEPTIC RESERVE EXISTING BO' HELL BUPFER

EXISTING 100" HELL BUFFER ---- BUILDING RESTRICTION LINE

SEPTIC RESERVE AREA

HELL AREA

FAILED PERCOLATION TEST

197 Fast Hain Street Westminster, HD 21157 410.386.0560 410.386.0564 (Fax) DOC @ DOCINCUS www.DDGinc.us Development Docion Concellants

SITE ADDRESS: LOT 30 2014 Windowski Cost Woodsho, Maryland 2176

BELLE HAVEN ESTATES

Sarveyora

DEVELOPER:

SITE PLAN FOR BAT INSTALLATION

04/07/2014 DRN. REV. DAT CO. FLEE DES. BY: JHK TAX ACC. 6 DRN. BY: JHK TAX MAP: 14 CHIL INC PROCESSO BLOCK / GRID: DATE: 04/10/14 PARCEL IL BB DDC.JOB#:06116.5

ZONE / USE: RC-DEO

DWG. SCALE: 1'430'

.. 4 . ..

PAUL G. CAVANAUGH, P.E.

SHEET NUMBER:

of 1



ENERAL NOTES PAGE 100 HOUSE 3,700 SG.FT.

BAGE GOUARS FOOTAGE OF HOUSE 3,700 SG.FT.

ELECTOR PLANT REQUIRED TO SERIES BASICIENT

SERVICIAN CAPACITÉ IS NOT REQUIRED PER THE APPROVED ROAD

DALAHOM, THE PROPERTY IS ZONED RC-DID PER THE 27/20

COUPREDIENCY ZONES PLAN AND PER COTP-LITZ ZONES REGULATIONS

COUPREDIENCY ZONES PLAN AND PER COTP-LITZ ZONES REGULATIONS

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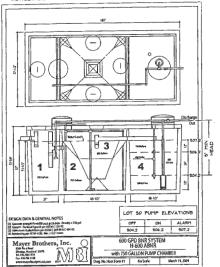
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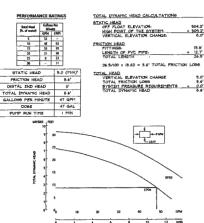
SEPTIC SYSTEM/DEST AVAILABLE TECHNOLOSY (BAT) NOTES:

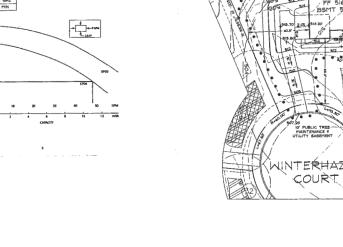
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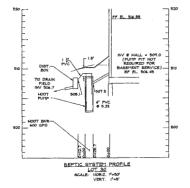




### **GOULDS PUMPS**







LOT 30 INITIAL SYSTEM TRENCH SPECIFICATIONS									
	GNOUND ELEVATION	INVERT ELEVATION	BOTTOM BLEVATION						
INITIAL BYSTEM TRENCH	507.20	504.2	499.2						

SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

SENAGE DISPOSAL SYSTEM DATA (A BEDROOM):

I. INVERT 9 FOUNDATION HALL SOOT (DASEPHET MAPP REQUIRED)

2. 600 GPD BINS SYSTEM N/ 750 GALLON PLAPP CHAMBER

B. GRADE OVER TANK. 810-2

INVEST: 677-3

3. DISTRIBUTION BOX

INVEST: 677-3

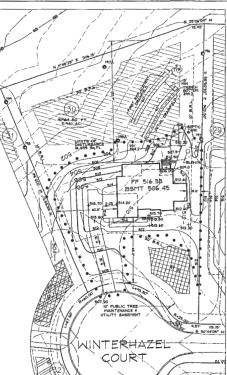
4. TREMOL DESIGN (A BORN Y 150 GPD/DBPR - 600 GPD)

600 GPD / 13 GPD/SP (APP. NATE) - 500 SF

10E 15 MIGHT TREMOL BOY OF CRAVEL BOLCH PIPE

15 HIM SPACING BETHERN TREMOL BOXES OF PINN. TERMOL

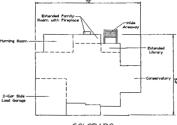
100 SF / 2 MIGHT - 18 MIGHT STATE OF THE STATE OF







**VICINITY MAP** 



COLORADO ELEVATION 'A' BRICK AND STONE FRONT

DATA SOURCES:



---- + 665.5 FROP. SPOT ELEV/FLOW ARROW

PROPOSED 20' SEPTIC RESERVE --- EXISTING BO' WELL BUFFER

EXISTING 100' HELL BUFFER ---- BUILDING RESTRICTION LINE

SEPTIC RESERVE AREA HELL AREA

PASSED FERCOLATION TEST O127 FAILED PERCOLATION TEST

192 East Main Street Westminster, ND 21157 410.386.0560 410.386.0564 (Fax) DOC (C) DOCur. us www.BDCincus evelopment Design Consultants DEVELOPER

SITE ADDRESS: LOT 80 2014 Whitefeed Court Woodship, Marylood 21767

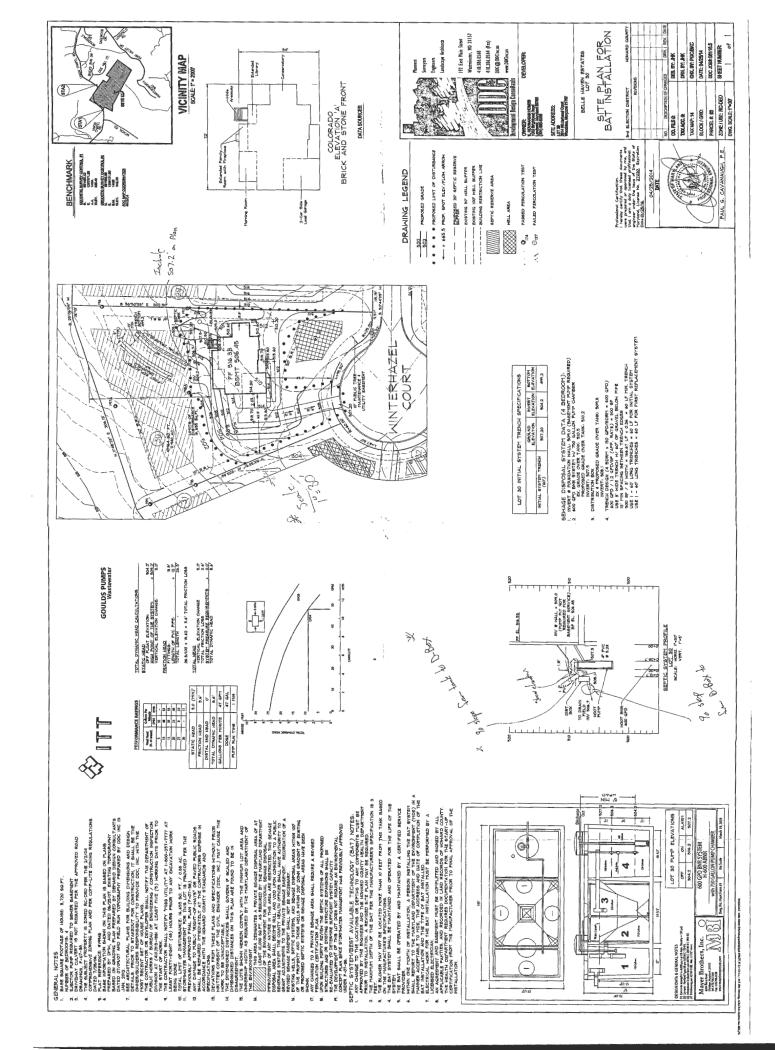
BELLE HAVEN ESTATES

REVISIONS

Surveyors

SITE PLAN FOR BAT INSTALLATION M ELECTION DISTRICT

-			-	_	-		
NO.	DESCRIPTION OF C	HANGES .	DHN.	REV.	DATE		
CO. FILE &		DES. BY: JHK					
TAX ACC. R		DRIVERY SHIK					
TAX MAP: 14		CHEC BY: PGC/BKC					
BLOCK / GRID:		DATE: 04/25/14					
PARCEL #: 86		DDC JOB#:08116.5					
ZONE / USE: RC-DEO		SHEET HUMBER					
DWG	SCALE: 1"430"		١.	of	1		





GENERAL NOTES

1. BASE SOLIARE FOOTAGE OF HOUSE: 3,720 SOFT.
NUMBER OF DEDICIONS: 3

1. TO SEVER BASETENT

2. DEVERANT CLAVIEST IS NOT REQUIRED PER THE APPROVED ROAD
DRAININGS. F-07-36.

4. THE SUBJECT PROPERTY IS DONED RC-DEO PER THE 2/2/04
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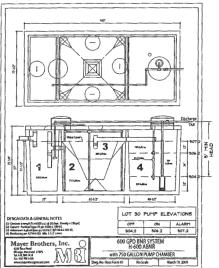
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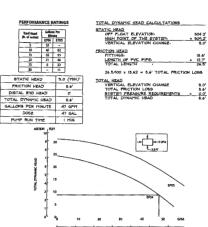
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### **GOULDS PUMPS**



FF EL 516.33

SEPTIC SYSTEM PROFILE

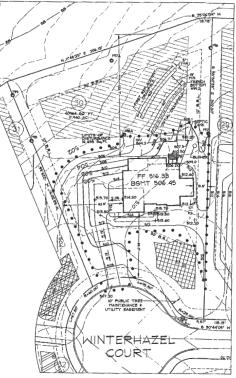
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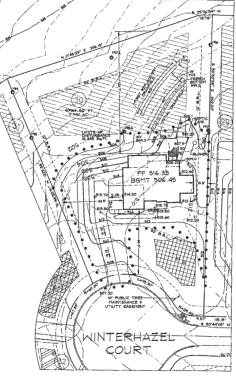
BCALE: HORK, I\*-80'

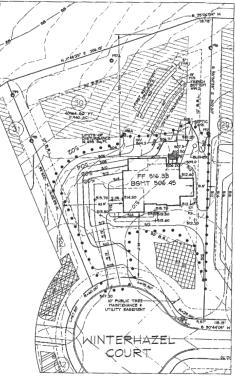
VERT. I\*-8'

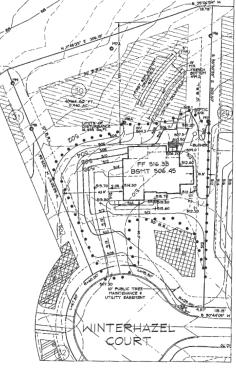
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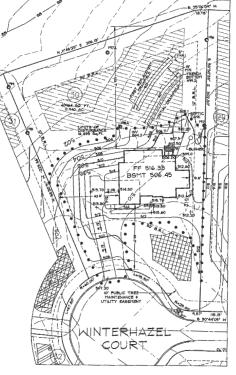
HOOT BNR



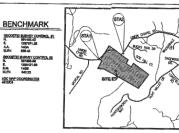












VICINITY MAP SCALE: 1" = 2000"



DATA SOURCES:



500 PROPOSED GRADE

---- + 665.5 PROP SHOT FLEV (KLOW ARROW

- BREERED 20' BEPTIC REBERVE

- - EXISTING 80' WELL BUFFER ---- EXISTING 100' HELL BUFFER ---- BUILDING RESTRICTION LINE

SEPTIC RESERVE AREA

HELL AREA

0,74 PASSED PERCOLATION TEST O127 FAILED PERCOLATION TEST

192 East Main Stree Westeninster, HD 21157 410384.0560 410.386.0564 (Fax) DDC@00Gincar www.DDCioces elopment Design Consultants

DEVELOPER:

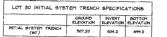
SITE ADDRESS:

BELLE HAVEN ESTATES

SITE PLAN FOR BAT INSTALLATION

of 1

NO. DESCRIPTION OF CHANGES DRN. REV. DATE CO. FILE & DEB. BY: JHK TAX ACC. R DRINL BY: JHK TAX MAP: 14 CHILEY: PGC/BKC BLOCK/GRID: DATE: 04/25/14 PARCEL #: 65 DOC JORE-08116 5 PAUL G. CAVANAUGH, P.E. ZONE / USE: RC-DEO SHEET NUMBER: DWG. SCALE: 1%30" 1



SEMAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

1 INVERT # FOUNDATION MALL BODG (BASETENT FUTP REQUIRED)

2 600 GPD BME SYSTEM & Y OG GALLON FUTP CAMPBER

\*\*\*PROPOSED GRADE OVER TANK: 80.2

\*\*\*DISPOSED GRADE OVER TANK: 80.2

\*\*\*PROPOSED GRADE OVER TANK: 80.6

\*\*\*AT TENNICH DESIGN (2 BIRMT : 80.0 GPD)\*\*DISPOSED GRADE OVER TANK: 80.6

4. TRENICH DESIGN (2 BIRMT : 80.0 GPD)\*\*DISPOSED GRADE OVER TANK: 80.6

4. TRENICH DESIGN (2 BIRMT : 80.0 GPD)\*\*DISPOSED GRADE BIRMT : 80.0 GPD)\*\*

10.6 ST NICH TERNICH & 60° OF GRAVE BIRCH PIPE

10.7 ST NICH TENNICH & 10° OF GRAVE BIRCH PIPE

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- GENERAL NOTES

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  2. ELECTOR PUPP. REQUIRED TO SEMER BASETISM?

  2. ELECTOR PUPP. REQUIRED TO SEMERED PER THE APPROVED ROAD
  DRAWINGS, P.OF-10-38.

  4. THE BUSINET PROPERTY IS ZONED RC-DED PER THE 27/04
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- DESIGNATION FROM THE COND RC-DEO PER THE 27/04

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  CERTIFICATION FROM THE MANUFACTURES PRIOR TO FRAIL APPROVAL OF THE

  METALLATION.

**3** 

45-1/2"

2

MB

27

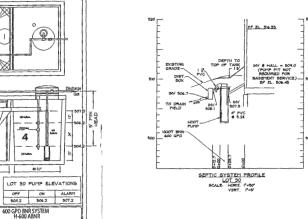
DESIGN DATA & GENERAL NOTES

Mayer Brothers, Inc.

Q

4

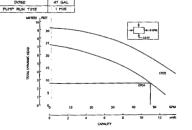
with 750 GALLON PUMP CHAMBER

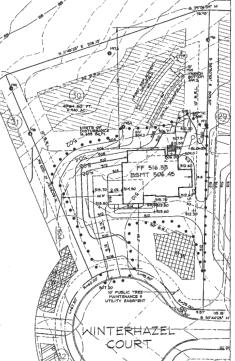


# **GOULDS PUMPS** PERFORMANCE RATINGS

PRICTION LIFAD







SCALE - 1"=30"

#### LOT 30 INITIAL SYSTEM TRENCH SPECIFICATIONS GROUND INVERT BOTTOM ELEVATION ELEVATION 807,20 504.2 499.2

SENAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

I, NIVERT & FOUNDATION HALL SON (TABSENTE PUMP REQUIRED)

2. 600 GPD BIN SYSTEM IN 750 GALLON PUMP CHAMBER

BE, GRADE OVER TANK. BIO.3

TOURS OF THE SYSTEM SON TANK. BIO.2

SON THE SYSTEM SON TANK. BIO.3

SON THE SYSTEM SON TANK. BIO.3

A. TRENCH SON DIVINE Y BO GPOUNDEN - 600 GPD)

400 GPD / 12 GPD/SF (APP. RATE) - 500 BF

10E / SHIP TERMONE SY OF GRAVE BECK PIPE

15 ININ SPACING BETWEEN TRENCH BOOKS

500 SF / SHIPT - 168 GF IT Y 0.38 - 90 LF ININ. TRENCH

USE ! - 40 LONG TRENCHES - 60 LF POR INITIAL STRENCH

USE ! - 40 LONG TRENCHES - 60 LF POR INITIAL STRENCH

USE ! - 40 LONG TRENCHES - 60 LF POR INITIAL STRENCH

USE ! - 40 LONG TRENCHES - 60 LF POR INITIAL STRENCH

USE ! - 40 LONG TRENCHES - 60 LF POR INITIAL STRENCHEST SYSTEM SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

BENCHMARK OFFICE BURNEY CONTROL & 14QA 63E48 Ã. Approved Sept : System Pisa -Howard County dealth Decormant



SCALE: 1" = 20007



COLORADO ELEVATION 'A' BRICK AND STONE FRONT

DATA SOURCES:

#### DRAWING LEGEND

BO2 PROPOSED GRADE

. . . . . PROPOSED LIMIT OF DISTURBANCE + 665,5 PROP. SPOT ELEY./FLON ARROW

BUPPER D 20' SEPTIC RESERVE - EXISTING SO' WELL BUFFER - EXISTING 100' HELL BUFFER

---- BUILDING RESTRICTION LINE

O<sub>174</sub>

PASSED PERCOLATION TEST FAILED FERCOLATION TEST



00C@00Cmc.m3 www.DDCinc.us DEVELOPER:

SITE ADDRESS:

OWNER:

BELLE HAVEN ESTATES

SITE PLAN FOR AT INSTALLATION

REVISIONS

05/06/2014 DATE

PAUL G. CAVANAUGH. P.E.

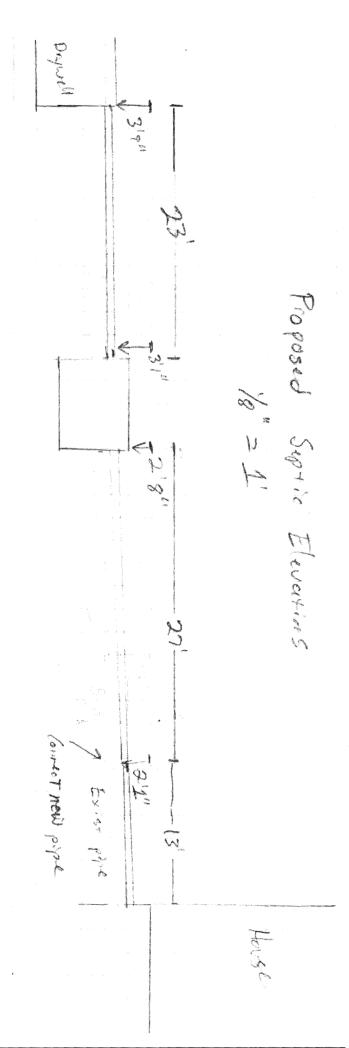
OO REES TAX ACC. (R TAX MAP: 14 BLOCK / GRID-

DRN. REV. DATE DES BY- SHK DRN. BY: JHK CHK, BY: PGC/BKC DATE: 06/08/14 PARCEL #: 66 DDC JOB#:06116.5 ZONE/USE: RC-DEC SHEET NUMBER: DWG. SCALE: 1"430"

Drywell 39 Existing Suptic Elevatins 22 107

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Drywell 341 Existing Septic House The Tank



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Drywell 8 Proposed Septic - Jank Forse