

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
Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 7/17/17 ONSITE SEWAGE DISPOSAL SYSTEM P 561464
APPROVAL DATE: 7/26/17 (SEO) PERMIT: CONSTRUCTION A
PROPERTY ADDRESS: 2029 Drovers Lane
SUBDIVISION: Vista Ridge LOT: TAX ID:
CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kim@foglesinc.com
CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670
PROPERTY OWNER: DR Horton, Inc. EMAIL:
OWNER ADDRESS: 1356 Beverly Road Suite 300, McLean, VA 22101 PHONE: 571-723-0813
SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Bro, Inc.
PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

Table with 2 columns: Field Name, Value. Fields include TRENCHES (Linear feet required: 179, Inlet depth: 3'4", Trench width: 3, Maximum bottom depth: 8, Minimum space between trenches: 10, Effective area beginning depth: 6.5), LOCATION (Per approved site plan...), NOTES (Install 4 x 45' trenches on contours).

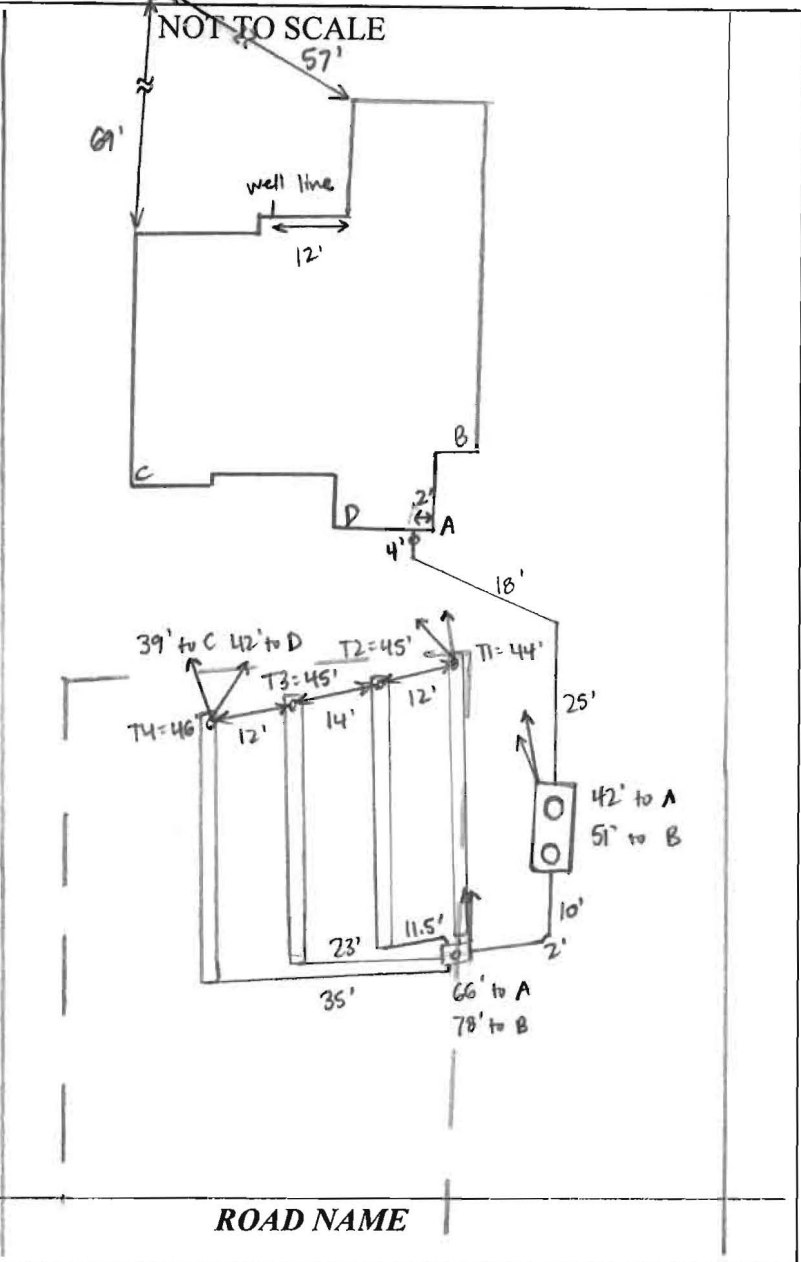
ISSUED BY: Hank Oswald ISSUE DATE: 7/17/17 EXPIRATION DATE: 7/17/18

- 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 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
[X] ELECTRICAL PERMIT ISSUED E N/A
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.

HO-95-2394

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		4
TOTAL LENGTH		180'
ABSORPTION AREA		540' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

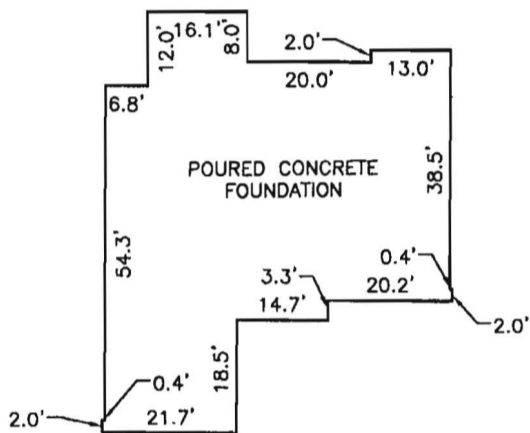
SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	6-10-17
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY GAL	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

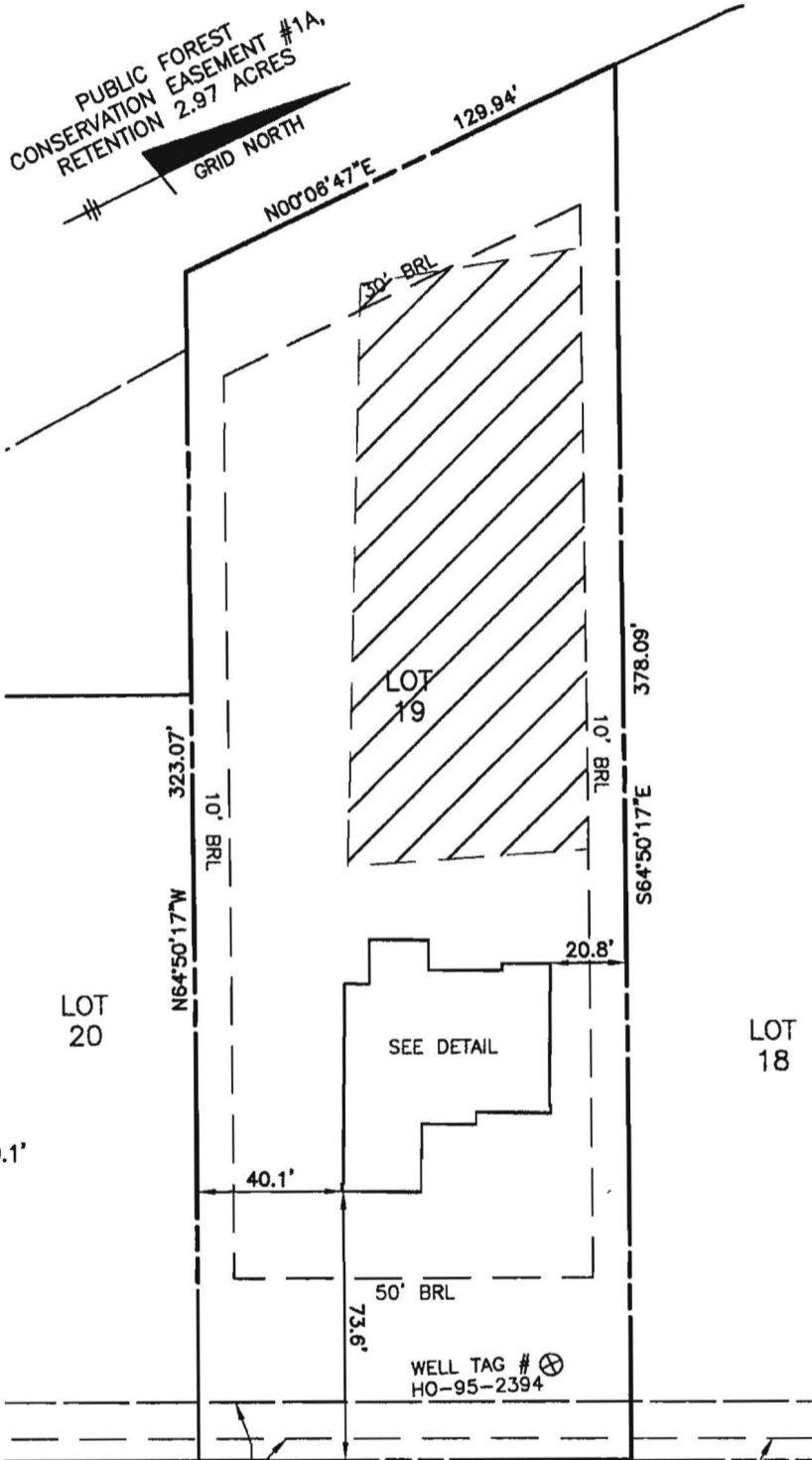
7/21/17 Met Fogle's on site for tank layout. SDA corners staked - flagged tank location as shown on plan. (SC) 7/24/17 Met Fogle's on site for trench layout. SDA corners staked - SE corner of SDA higher than shown on plan, shot contour + laid out 4x45' trenches to use upper part of SDA. OK to drop inlet to 4' to make fall. (SC)

INSTALLATION: 7/25/17 house connection made. On site for setting of tank - no obvious cracks on sides or bottom. (SC) 7/26/17 Trenches installed + left open for inspection. 3' wide, 3.5-4' to stone. Fogle's says last 10' of T4 had lots of rock 3-8'. Levelled speed levelers in D-box. (SC)

PUBLIC FOREST
CONSERVATION EASEMENT #1A,
RETENTION 2.97 ACRES
GRID NORTH



FOUNDATION DETAIL
SCALE: 1" = 30'



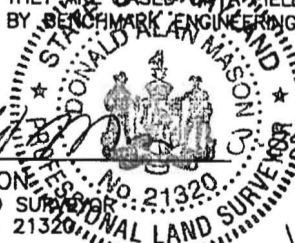
LOT 20

LOT 18

TOP OF FOUNDATION WALL = 641.9'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

SURVEYOR'S CERTIFICATE

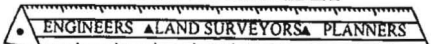
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2019 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 02/13/2017.



DONALD A. MASON
PROFESSIONAL LAND SURVEYOR
MARYLAND REG. No. 21320

FEMA FIRM No. 240044C0035D
ZONE: X
DATED: 11/06/2013

BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLICOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-6644

WWW.BEI-CMLENGINEERING.COM

10' PUBLIC TREE
MAINTENANCE
EASEMENT

S25°09'43"W 117.72'
DROVERS LANE
(40' PUBLIC ACCESS PLACE)

6' PUBLIC
DRAINAGE &
UTILITY
EASEMENT

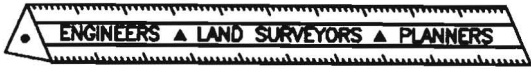
*Wall Check
OK
7/17/17 R/E*

**WALL CHECK
VISTA RIDGE
A RESUBDIVISION OF LOTS 1-4,
CREATING LOTS 5 THRU 21, AND
PRESERVATION PARCELS "A"
THROUGH "D"
PLAT No. 22434
LOT No. 19
2029 DOVERS LANE**

FIELD OBS. BY DAM
COMP. BY DAM
DRAWN BY CBD SCALE: 1" = 50' DATE: 3/28/2017

4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BENCHMARK



ENGINEERING, INC.

8480 Baltimore National Pike • Suite 315 • Ellicott City, Maryland 21043
 410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

DATE <u>2/9/17</u>	PROJECT No. <u>1635</u>
ATTENTION <u>Hank Osuak</u>	
RE: <u>2029 Drovers Ln</u>	
<u>Vista Ridge Lot 19</u>	

TO: Health Dept.

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

Photocopies Prints Originals Samples
 Specifications Invoices Change Order Other _____

COPIES of	No. of SHEETS	DESCRIPTION
<u>3</u>	<u>2</u>	<u>Revised Septic Permit Plan</u>

THESE ARE TRANSMITTED as checked below

- For Comment For your use For Approval
 For Review As requested Other _____

REMARKS: I adjusted the trenches and
septic area per the latest specifications

COPY TO: _____

RECEIVED BY: [Signature]

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

SIGNED: [Signature]

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, February 07, 2017 9:52 AM
To: John Carney (jcarney@bei-civilengineering.com)
Subject: Septic Plan_Septic Specs
Attachments: Septic specs_2029 Drovers Lane.pdf

Hi John:

Attached, please find a copy of the septic specs for 2019 Drover Lane (Vista Ridge Lot 19). The specs have been slightly modified to include a little more sidewall. Please revise the OSDS plan to reflect these changes. Also, please include the trench layout for at least the initial and first replacement system on the plan.

Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

BENCHMARK



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 410-465-6105 410-465-6644 (Fax)

LETTER OF TRANSMITTAL

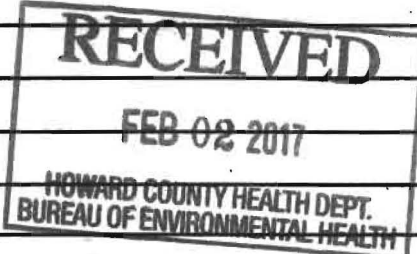
DATE	1/31/17	PROJECT No.	1635
ATTENTION	Jeff Williams		
RE:	Vista Ridge Lot 19		
	Septic Plan		

TO: Health Dept.

WE ARE SENDING YOU Attached Under separate cover via _____ the following items

Photocopies Prints Originals Samples
 Specifications Invoices Change Order Other _____

COPIES of	No. of SHEETS	DESCRIPTION
3	2	Septic Permit Plans
1	-	Architectural Plans



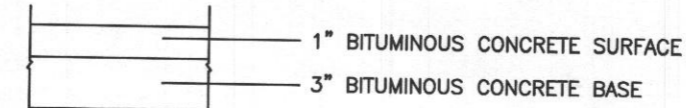
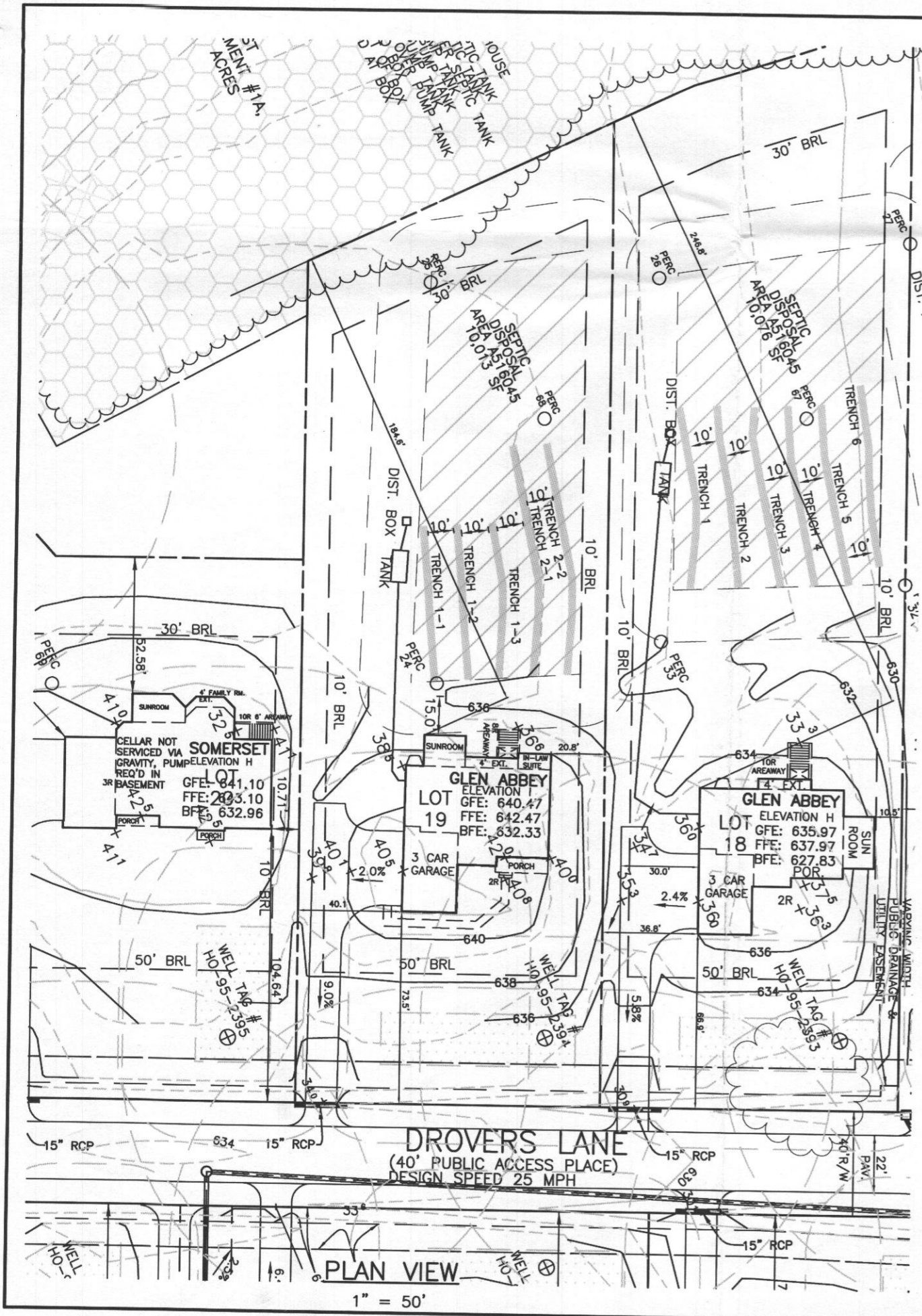
THESE ARE TRANSMITTED as checked below

- For Comment For your use For Approval
 For Review As requested Other _____

REMARKS: Building Permit to be submitted soon.

COPY TO: _____
 RECEIVED BY: Marian Curry
If enclosures are not as noted, kindly notify us at once.

SIGNED: [Signature]



FULL DEPTH BITUMINOUS CONCRETE
PAVING SECTION
 NOT TO SCALE

BUILDING PERMIT PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR VISTA RIDGE, PLAT Nos. 22430-22435. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY ACCUBID, INC., ON OR ABOUT JUNE 27, 2013.
4. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
5. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
6. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-2394, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
7. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
8. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED TO BE PROVIDED BY BOTH POND #1, A POCKET POND, AND IN POND #2, A MICORPOOL ED POND.

LEGEND

ChC2	SOILS CLASSIFICATION
---	SOILS DELINEATION
480 478	EXISTING CONTOURS (BEI)
~~~~~	EXISTING WOODS LINE
~~~~~	PROPOSED WOODS LINE
	SEPTIC FIELD
□	WELL BOX
⊕	EXISTING WELL
□	FOREST CONSERVATION EASEMENT
○	PASSING PERCOLATION TEST
●	FAILING PERCOLATION TEST

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

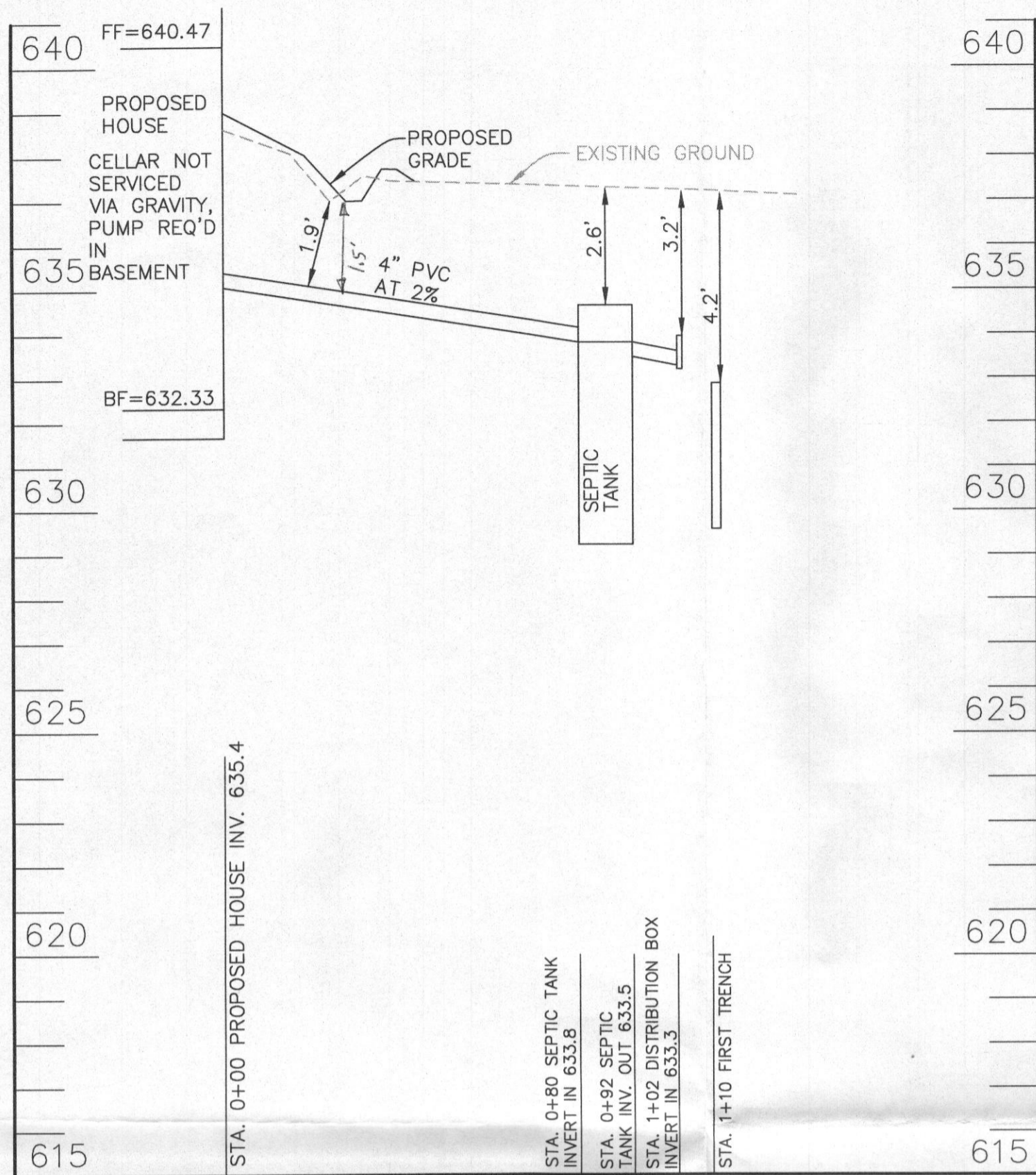
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 45577, Expiration Date: 06-08-2018.

2/9/17

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 BEI@BEI-CIVILENGINEERING.COM

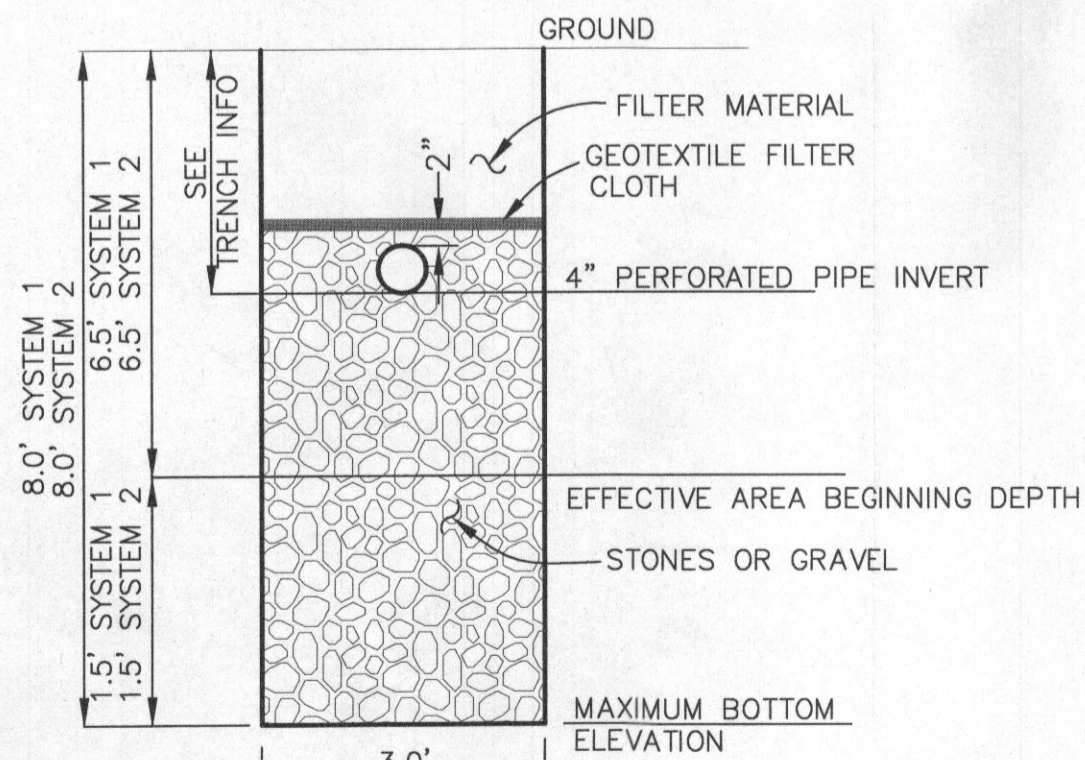
OWNER/BUILDER:		PROJECT:	
DR HORTON, INC. 1356 BEVERLY ROAD SUITE 300 MCLEAN, VA 22101 PHONE: 571-723-0813 FAX: 800-551-5015		VISTA RIDGE LOT 19	
LOCATION:		2029 DROVERS LANE COOKSVILLE, MD 21723 TAX MAP No. 8 - BLOCK No. 23 - PARCEL No. 176 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
TITLE:		SEPTIC PERMIT PLAN	
HOUSE TYPE:		GLEN ABBEY	
DATE:	FEBRUARY, 2016	PROJECT NO.	1635
DESIGN:	JC	DRAFT:	CBD
SCALE:	1" = 50'	DRAWING	1 OF 2



SEWER PROFILE - LOT 19
SCALE: VERTICAL 1"=3', HORIZONTAL 1"=30'

TRENCH INFORMATION

TRENCH	LENGTH	GROUND ELEVATION	INVERT ELEVATION	MAX. BOTTOM ELEV.
TRENCH 1-1	60 LF	637.2	634.2	629.2
TRENCH 1-2	60 LF	636.7	633.7	628.7
TRENCH 1-3	60 LF	636.3	633.3	628.3
TRENCH 2-1	90 LF	636.1	633.1	628.1
TRENCH 2-2	90 LF	635.5	632.5	627.5



TYPICAL TRENCH DETAIL
NOT TO SCALE

INITIAL SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	6.5	ft
Bottom Max Depth	8	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall reduction credit	0.71	
Trench width	3	
Effective Area Depth	1.5	
Linear Length of trench Required	179	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	6.5	ft
Bottom Max Depth	8	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall reduction credit	0.71	
Trench width	3	
Effective Area Depth	1.5	
Linear Length of trench Required	179	lf

2nd REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	6	ft
Bottom Max Depth	8	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall reduction credit	0.625	
Trench width	3	
Effective Area Depth	2	
Linear Length of trench Required	234	lf

SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS.
WWW.MAYERPRECAST.COM
EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

THIS PLAN IS FOR SEPTIC DESIGN ONLY

- DESIGN DATA & GENERAL NOTES**
- [1] Concrete strength $f_c=4,000$ p.s.i. @ 28 days. Density = 160 pcf.
 - [2] Cement - Portland Type III per ASTM C 150-92.
 - [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
 - [4] Reinforcing per ASTM A165. Min. 1-1/2" cover.
 - [5] Top slab sealed with butyl rope mastic.
 - [6] 4" wall, 4" base, & 6" top thickness.
 - [7] Max 3" of cover
 - [8] Depending on use of tank, Inlet & Outlet baffles may be required by code.

MBI
Mayer Bros., Inc.
6264 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosprecast.com

2,000 GALLON SEPTIC TANK		
2-Compartment		
Stock Item [Approx. 19,900 lbs]		
Dwg. No. 2000-2C	No Scale	Aug 11, 2008

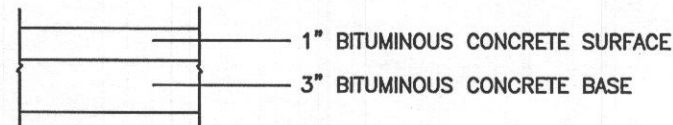
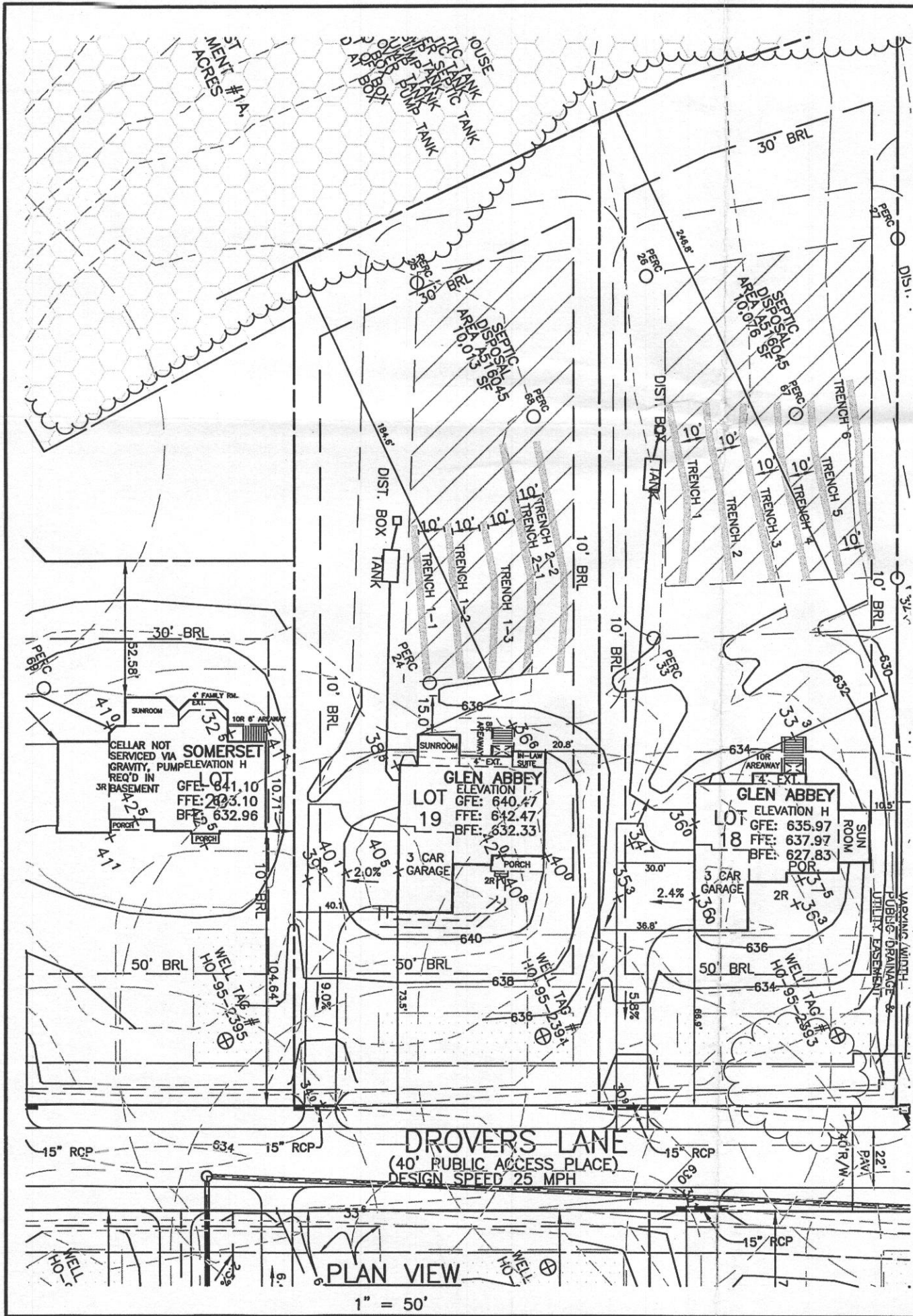
Approved Septic System Plan
Howard County Health Department
Signature: *Henk Oswald* 2/9/17

BENCHMARK
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8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 ▲ FAX: 410-465-6644
BEI@BEI-CIVILENGINEERING.COM

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. 45577, Expiration Date: 06-08-2018.

John M. Garnier
PROFESSIONAL ENGINEER
No. 45577
2/9/17

OWNER/BUILDER: DR HORTON, INC. 1356 BEVERLY ROAD SUITE 300 McLEAN, VA 22101 PHONE: 571-723-0813 FAX: 800-551-5015	PROJECT: VISTA RIDGE LOT 19
LOCATION: 2029 DROVERS LANE COOKSVILLE, MD 21723 TAX MAP No. 8 - BLOCK No. 23 - PARCEL No. 176 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER 04-595484	TITLE: SEPTIC PLAN
HOUSE TYPE: GLEN ABBEY	DATE: FEBRUARY, 2016
DESIGN: JMC	DRAFT: JMC
SCALE: 1" = 30'	PROJECT NO. 1635 DRAWING 2 OF 2



FULL DEPTH BITUMINOUS CONCRETE
PAVING SECTION
 NOT TO SCALE

BUILDING PERMIT PLAN NOTES:

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---480---	EXISTING CONTOURS (BEI)
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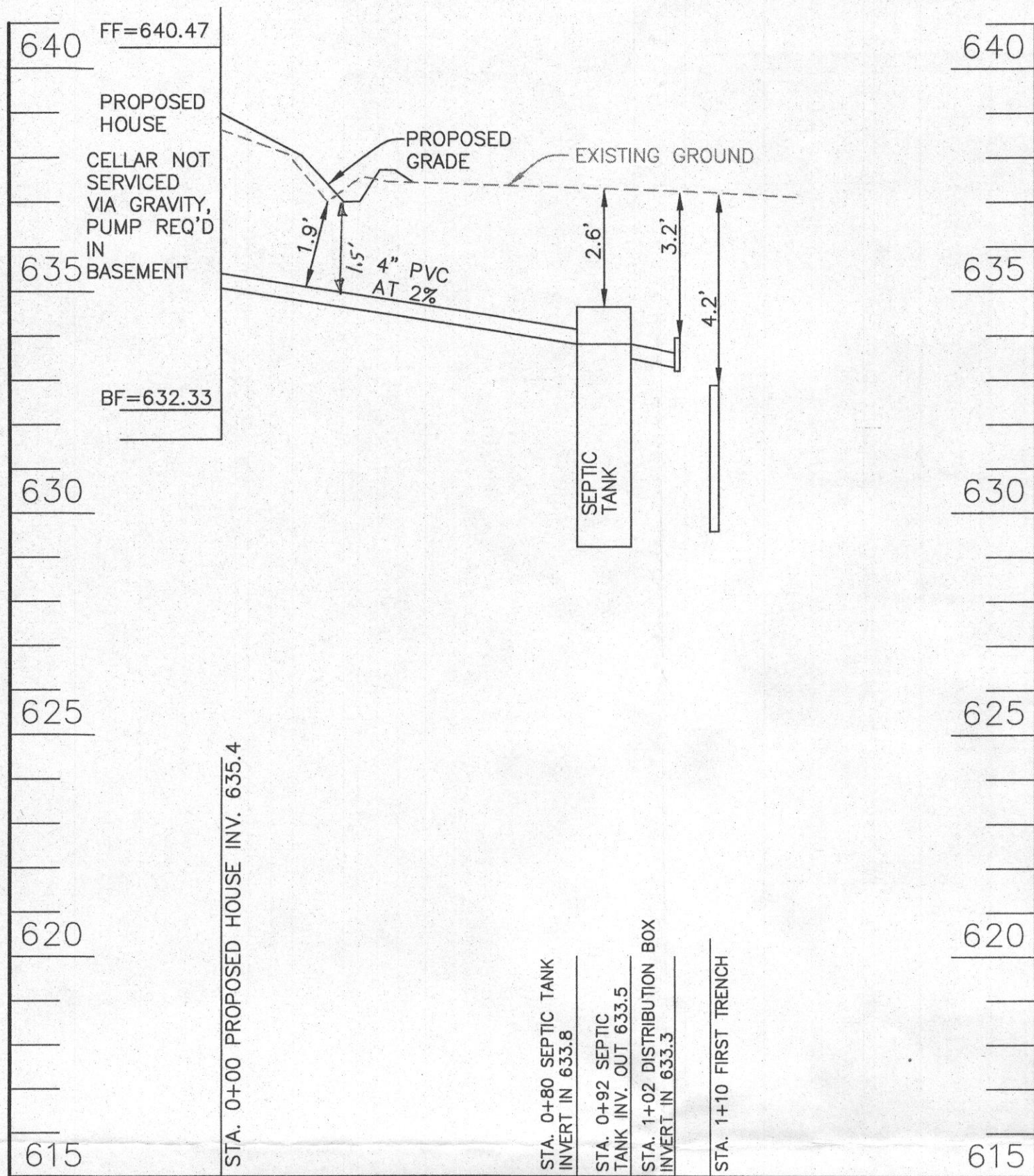
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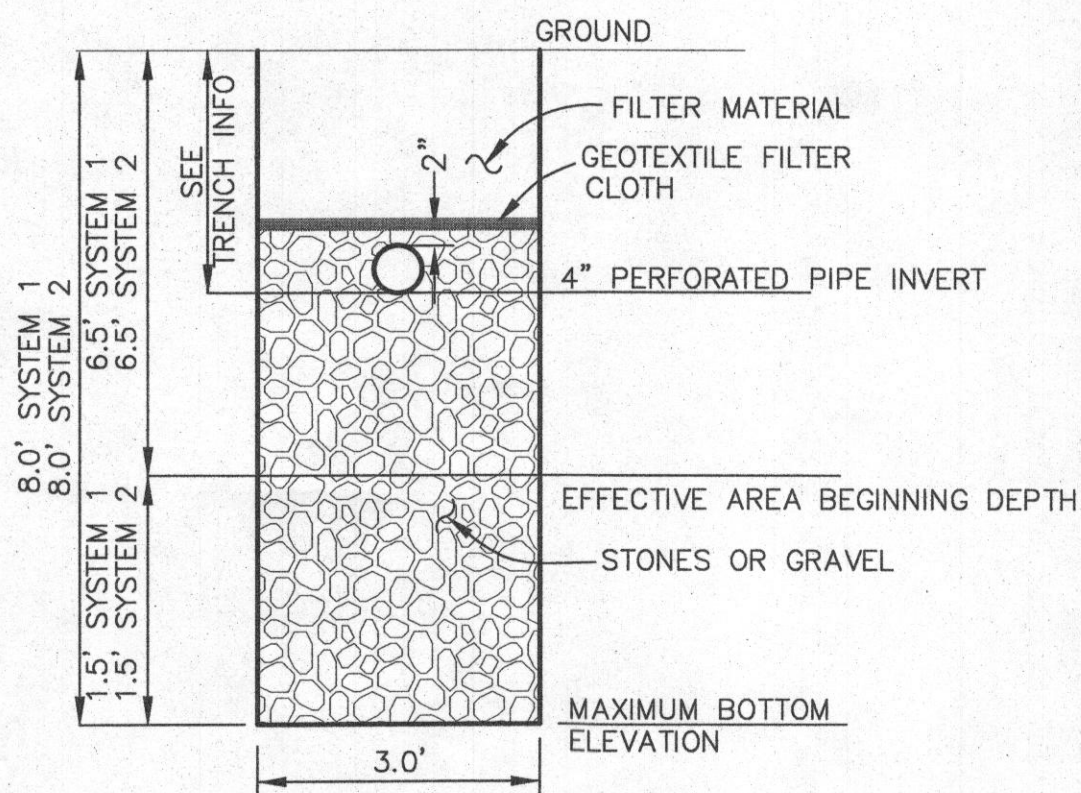
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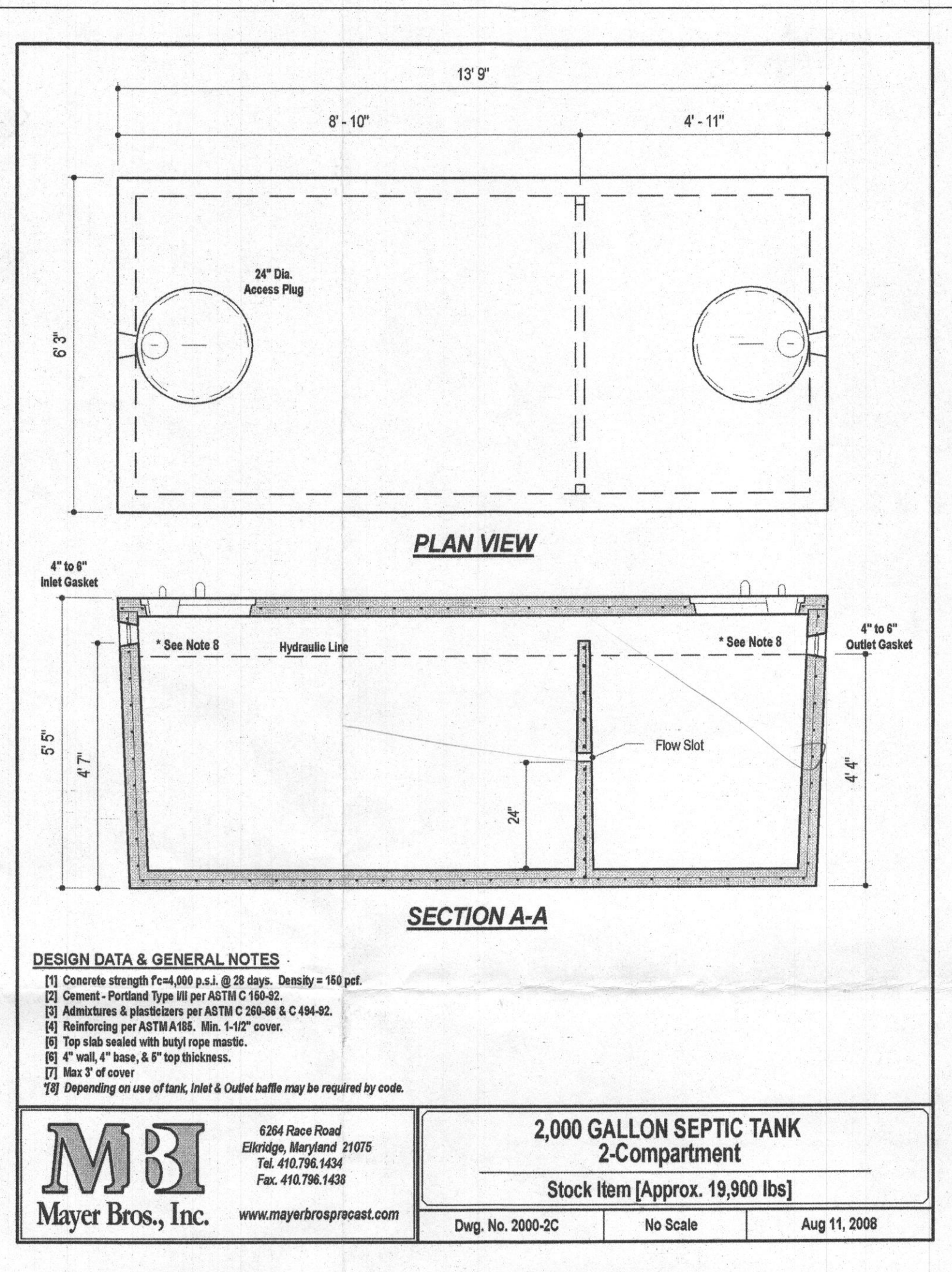
INITIAL SYSTEM	
Number of Bedrooms	6
Application Rate	1.2 gpd/sf
Effective Area Beginning Depth	6.5 ft
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Design Flow	900 gpd
Drainage Field square footage	750 sf
Sidewall reduction credit	0.71
Trench width	3
Effective Area Depth	1.5
Linear Length of trench Required	179 lf

1st REPLACEMENT SYSTEM	
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Application Rate	1.2 gpd/sf
Effective Area Beginning Depth	6.5 ft
Bottom Max Depth	8 ft
Design Flow	900 gpd
Drainage Field square footage	750 sf
Sidewall reduction credit	0.71
Trench width	3
Effective Area Depth	1.5
Linear Length of trench Required	179 lf

2nd REPLACEMENT SYSTEM	
Number of Bedrooms	6
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	6 ft
Bottom Max Depth	8 ft
Design Flow	900 gpd
Drainage Field square footage	1125 sf
Sidewall reduction credit	0.625
Trench width	3
Effective Area Depth	2
Linear Length of trench Required	234 lf

SEE MANUFACTURES SPECIFICATIONS FOR DETAILS.
WWW.MAYERPRECAST.COM
EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

THIS PLAN IS FOR SEPTIC DESIGN ONLY



M B
Mayer Bros., Inc.
6264 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438
www.mayerbrosprecast.com

Dwg. No. 2000-2C
No Scale
Aug 11, 2008

Approved Septic System Plan
Howard County Health Department
Signature: Hank Oswald
Date: 2/24/17

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER.

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. 45577, Expiration Date: 06-08-2018.

BENCHMARK ENGINEERING, INC.
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 ▲ FAX: 410-465-6844
BEI@BEI-CIVILENGINEERING.COM

Professional Engineer Seal: JOHN M. CARNAL, No. 45577, PROFESSIONAL ENGINEER

OWNER/BUILDER: DR HORTON, INC. 1356 BEVERLY ROAD SUITE 300 MCLEAN, VA 22101 PHONE: 571-723-0813 FAX: 800-551-5015	PROJECT: VISTA RIDGE LOT 19
LOCATION: 2029 DROVERS LANE COOKSVILLE, MD 21723 TAX MAP No. 8 - BLOCK No. 23 - PARCEL No. 176 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER 04-595484	TITLE: SEPTIC PLAN
HOUSE TYPE: GLEN ABBEY	DATE: FEBRUARY, 2016
DESIGN: JMC	DRAFT: JMC
SCALE: 1" = 30'	PROJECT NO. 1635 DRAWING 2 OF 2