

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: 1/8/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564716
 APPROVAL DATE: 2/1/19 sec **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 13615 Curtis Vista Way
 SUBDIVISION: Brighton Mill II LOT: 4 TAX ID: 05-600585
 CONTRACTOR: South Carroll Backhoe EMAIL: sbackhoe@comcast.net
 CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618
 PROPERTY OWNER: Highland Development Corporation EMAIL: _____
 OWNER ADDRESS: P.O. Box 228, Clarksville, MD 21029 PHONE: _____
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Bros
 PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

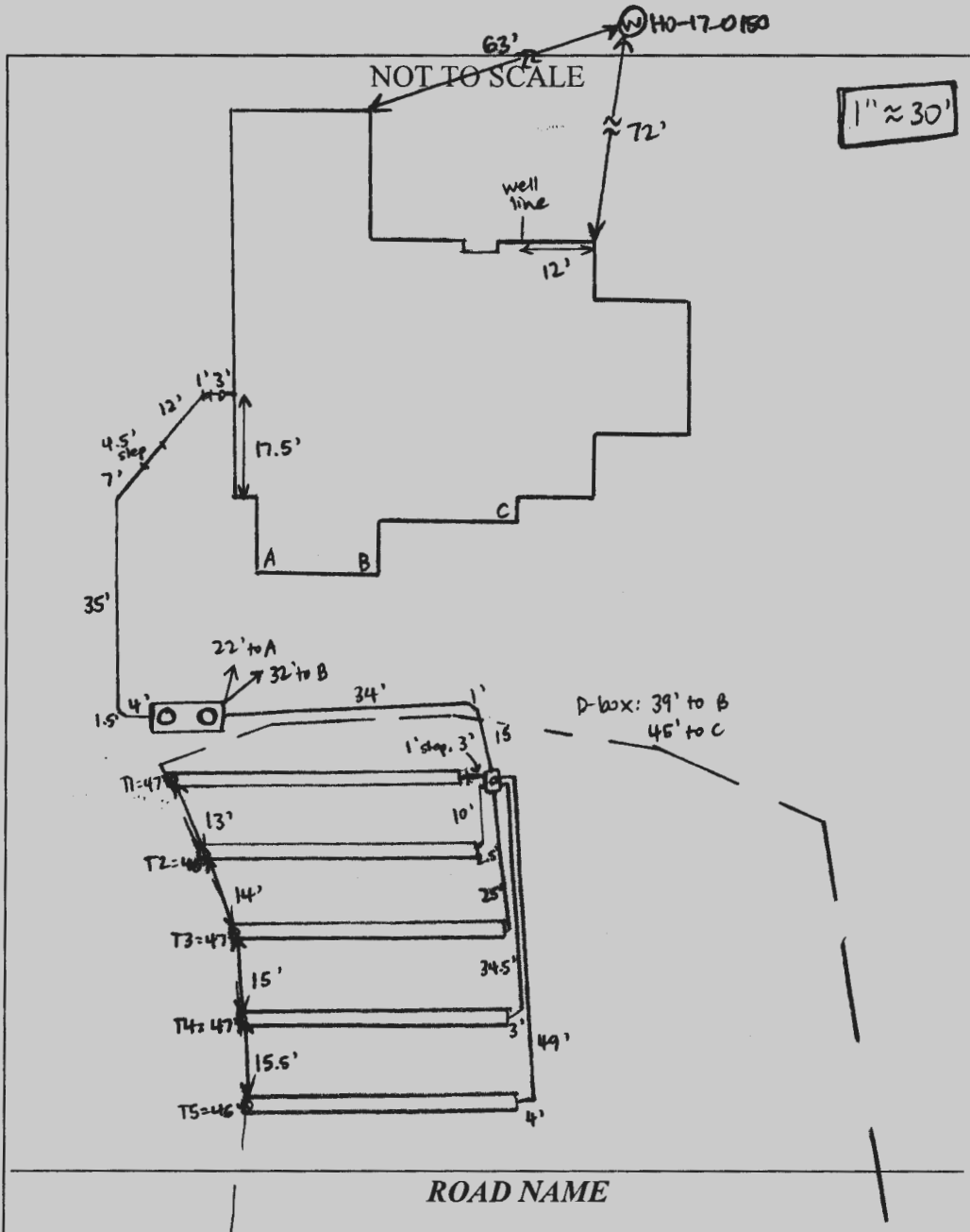
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>234</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 5 x 47' trenches.	

ISSUED BY: Dana Bernard ISSUE DATE: 1/8/19 EXPIRATION DATE: 1/8/20

- 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
 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	8'
NUMBER OF TRENCHES		5
TOTAL LENGTH		235'
ABSORPTION AREA		705' + SIDEWALK
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	1.5-2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	11-20-18

RUMP 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:

1/18/19 Met S. Carroll on site for layout. Tank stakes and SDA edge stakes present. Shot contour and laid out 5 x 47' trenches. (SC)

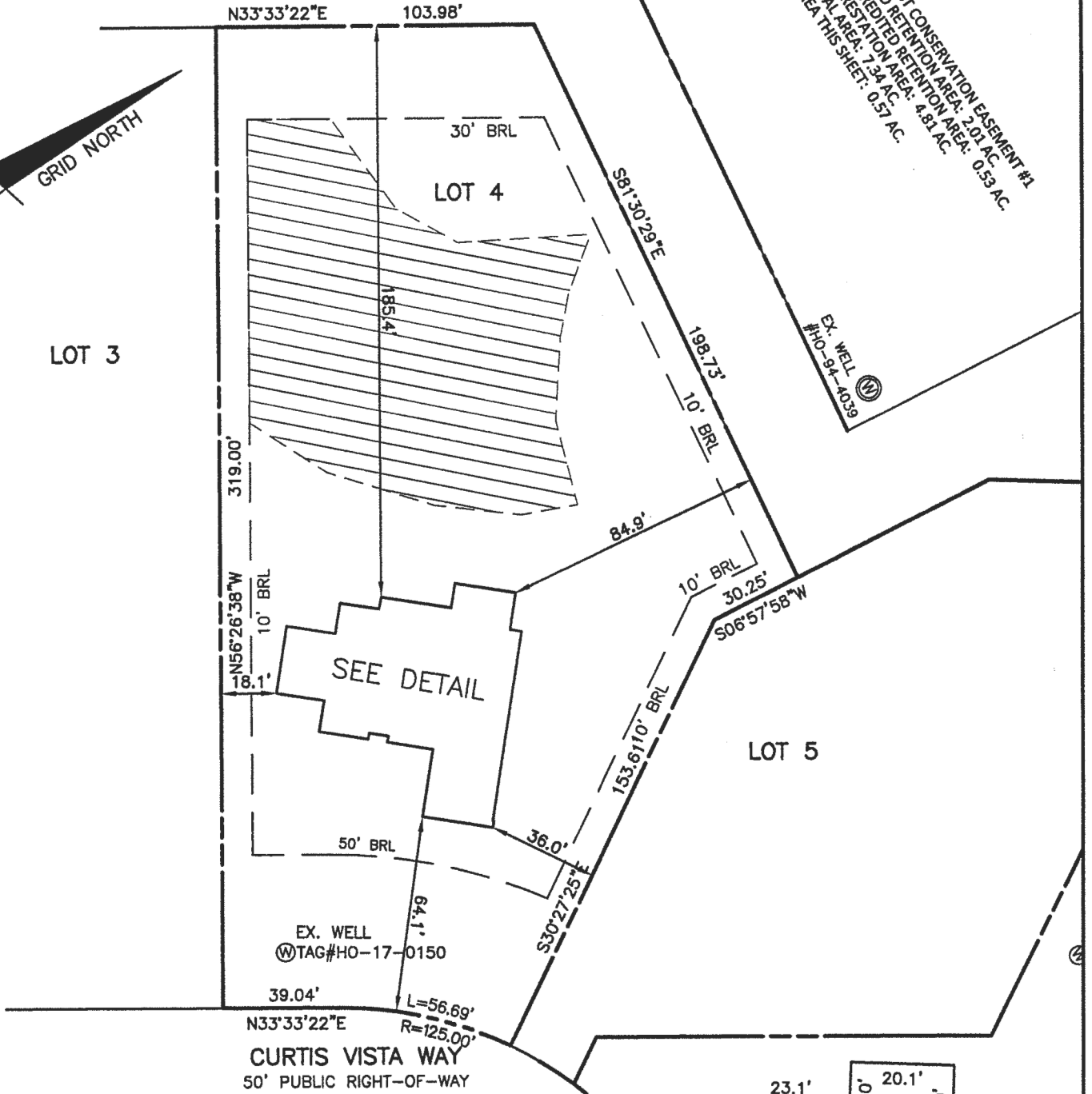
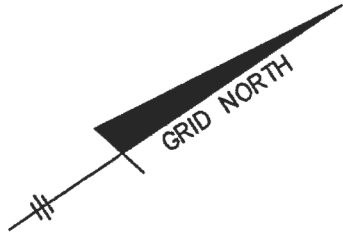
INSTALLATION:

1/23/19 Tank set, S. Carroll digging sewer line. (SC) 1/28/19 T1 complete - left open at ends for inspection, S. Carroll adding stone + pipe to T2. 3' wide, 2.5' to stone. (SC) 1/29/19 T3 + T4 complete, T3 left open at ends for inspection and T3 left open. 3' wide, 2.5' to stone. (SC) 1/30/19 T5 complete - left open for inspection, 3' wide and 2.5' to stone. Pipe laid from house to tank. Need house connection. (SC) 2/1/19 House connection made. D-box set and connected to tank + trenches. Levelled speed levelers in D-box D-box lid corner broke off. S. Carroll patched w/ cement. [Corrective action + completed.] (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 2/1/19

P/O NON-BUILDABLE
PRESERVATION PARCEL 'B'
TO BE PRIVATELY OWNED WITH THE HOA AND
HOWARD COUNTY, MARYLAND, AS EASEMENT
HOLDERS
9.57 ACRES TOTAL
8.19 ACRES THIS SHEET

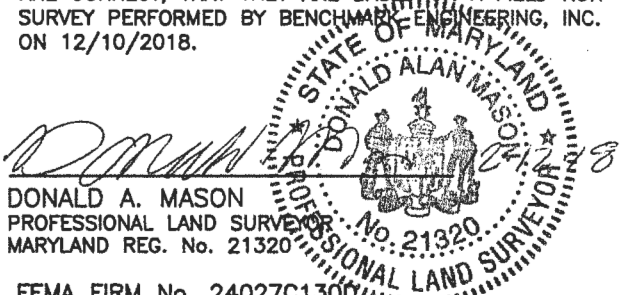
P/O FOREST CONSERVATION EASEMENT #1
CREDITED RETENTION AREA: 2.01 AC.
NON-CREDITED RETENTION AREA: 4.81 AC.
TOTAL AREA: 7.34 AC.
AREA THIS SHEET: 0.57 AC.



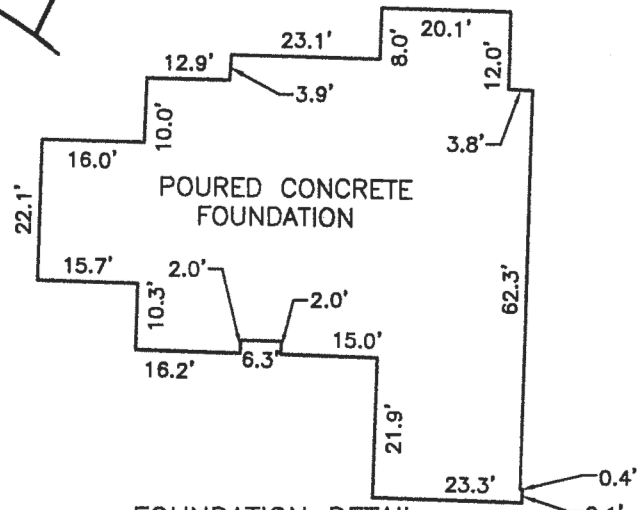
TOP OF FOUNDATION WALL = 520.4'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

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 1-7-2021 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 12/10/2018.



DONALD A. MASON
PROFESSIONAL LAND SURVEYOR
MARYLAND REG. No. 21320
FEMA FIRM No. 24027C130D
ZONE: X
DATED: 11/6/2013



FOUNDATION DETAIL
SCALE: 1" = 30'

1/8" wall
check okay.
- K.O.

WALL CHECK

BRIGHTON MILL II
PLAT No. 24471
LOT No. 4

13615 CURTIS VISTA WAY

5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 50' DATE: 12/10/2018

BENCHMARK
ENGINEERS LAND SURVEYORS PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-6644
WWW.BEI-CMLEENGINEERING.COM

FIELD OBS. BY AS
COMP. BY EWF
DRAWN BY EWF

LEGEND

- SOILS CLASSIFICATION *GgC*
- SOILS DELINEATION
- PROPOSED CONTOURS
- EXISTING CONTOURS
- LIMIT OF WETLANDS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- EXISTING WELL
- EXISTING WELL BOX
- EXISTING SEWAGE DISPOSAL AREA



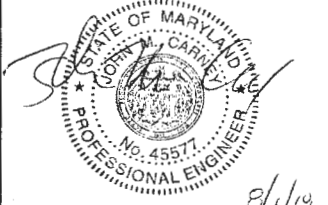
ONSITE SEWAGE DISPOSAL PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR BRIGHTON MILL II, PLAT Nos. 24469-24474. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY F-17-054, ON OR ABOUT MAY, 2017.
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-17-0150, 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 DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY TWO DRY-WELLS (M-5), AND ONE MICRO-BIORETENTION FACILITY (M-6).
10. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
11. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
12. FOR DEVELOPMENT LANDSCAPING SEE ROAD CONSTRUCTION PLAN F-17-054.

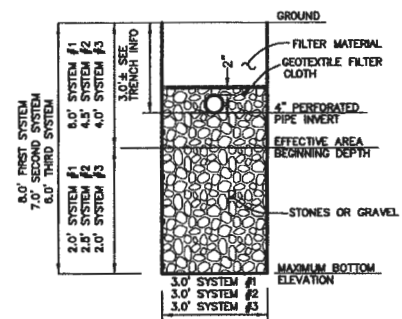


PLAN VIEW
1" = 50'

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: 06-08-2020.



LOT 4



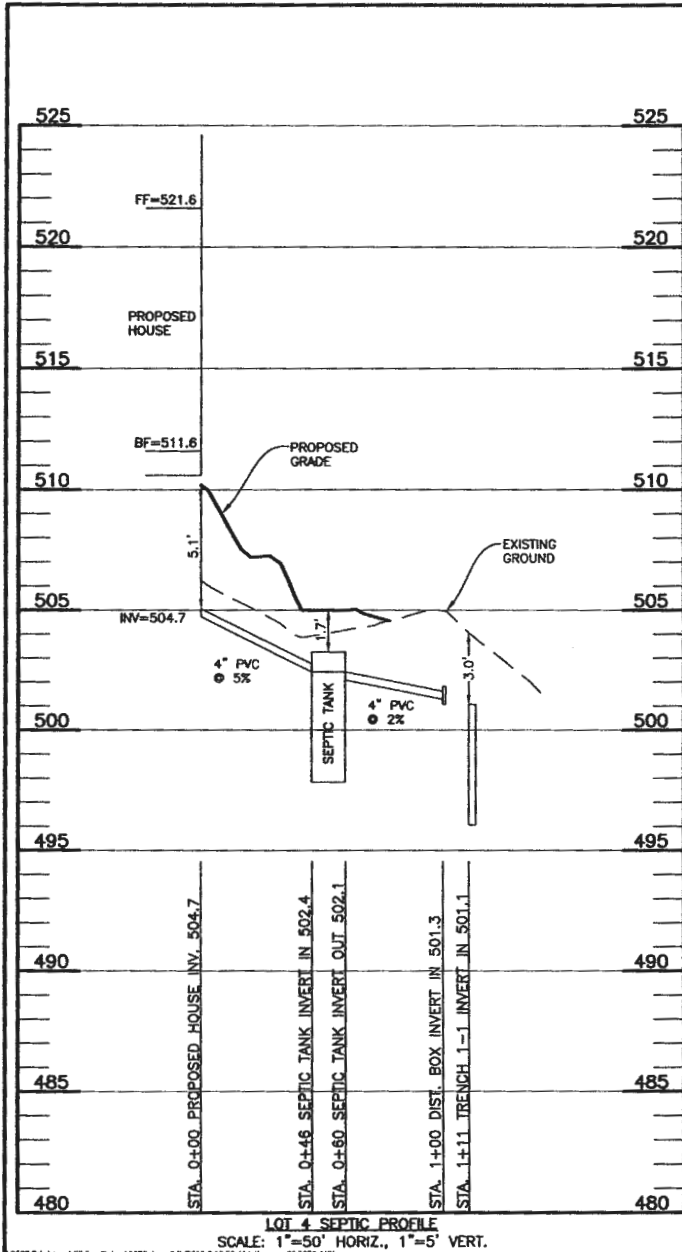
TYPICAL TRENCH DETAIL
NOT TO SCALE

PROJECT:		BRIGHTON MILL II LOT 4	
LOCATION:		TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13615 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600585	
TITLE:		ONSITE SEPTIC DESIGN SYSTEM PLAN	
HOUSE TYPE:		REGENTS PARK II - ELEVATION E	
DATE:	JULY, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	<u>1</u> OF <u>2</u>

BUILDER:
MV HOMES, INC.
9720 PATUXENT WOODS DRIVE
SUITE 100
COLUMBIA, MD 21046
410-379-5956

OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414

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ENGINEERS & LAND SURVEYORS & PLANNERS
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8480 BALTIMORE NATIONAL PIKE & SUITE 315
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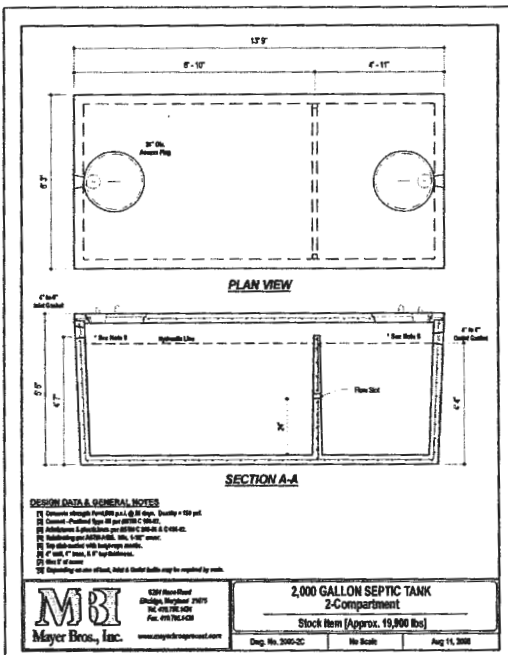
LOT 4 SEPTIC PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

TRENCH DATA - LOT 4					
INITIAL SYSTEM		FIRST REPLACEMENT		SECOND REPLACEMENT	
TRENCH 1-1	LENGTH 46.9 ft	TRENCH 2-1	LENGTH 52.1 ft	TRENCH 3-1	LENGTH 73 ft
	GROUND ELEVATION 504.1		GROUND ELEVATION 504.5		GROUND ELEVATION 498.0
	INVERT ELEVATION 501.1		INVERT ELEVATION 501.5		INVERT ELEVATION 495.0
	MAX BOTTOM ELEVATION 496.1		MAX BOTTOM ELEVATION 497.5		MAX BOTTOM ELEVATION 492.0
TRENCH 1-2	LENGTH 46.9 ft	TRENCH 2-2	LENGTH 52.1 ft	TRENCH 3-2	LENGTH 85 ft
	GROUND ELEVATION 502.8		GROUND ELEVATION 503.0		GROUND ELEVATION 496.4
	INVERT ELEVATION 499.8		INVERT ELEVATION 500.0		INVERT ELEVATION 493.4
	MAX BOTTOM ELEVATION 494.8		MAX BOTTOM ELEVATION 496.0		MAX BOTTOM ELEVATION 490.4
TRENCH 1-3	LENGTH 46.9 ft	TRENCH 2-3	LENGTH 52.1 ft		
	GROUND ELEVATION 501.5		GROUND ELEVATION 501.2		
	INVERT ELEVATION 498.5		INVERT ELEVATION 498.2		
	MAX BOTTOM ELEVATION 493.5		MAX BOTTOM ELEVATION 494.2		
TRENCH 1-4	LENGTH 46.9 ft	TRENCH 2-4	LENGTH 52.1 ft		
	GROUND ELEVATION 499.8		GROUND ELEVATION 499.5		
	INVERT ELEVATION 496.8		INVERT ELEVATION 496.5		
	MAX BOTTOM ELEVATION 491.8		MAX BOTTOM ELEVATION 492.5		
TRENCH 1-5	LENGTH 46.9 ft				
	GROUND ELEVATION 498.4				
	INVERT ELEVATION 495.4				
	MAX BOTTOM ELEVATION 490.4				

SEPTIC INVERT CHART - LOT 4	
INV @ HOUSE	504.7
GROUND @ HOUSE	510.2
INV IN TANK	502.4
INV OUT TANK	502.1
TOP OF TANK	503.3
GROUND OVER TANK	505.4
INV IN DIST BOX	501.3
INV OUT DIST BOX	501.2
GROUND AT DIST BOX	505.0

INITIAL SYSTEM - LOT 4		
Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	6.0	ft
Bottom Max Depth	8.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.63	
Trench width	3	ft
Effective Area Depth	2	ft
Trench Spacing	10	ft
Linear Length of trench Required	234	ft
1st REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	4.5	ft
Bottom Max Depth	7.0	ft
Design Flow	900	gpd
Drainage Field square footage	1125	sf
Sidewall Reduction Credit	0.56	
Trench width	3	ft
Effective Area Depth	2.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	208	ft
2nd REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	4.0	ft
Bottom Max Depth	6.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.63	
Trench width	3	ft
Effective Area Depth	2	ft
Trench Spacing	10	ft
Linear Length of trench Required	156	ft

Health Department Spec Sheet information			
System	Application Rate	Effective Depth	Bottom Depth
Initial	0.8	6.0	8.0
1st Replacement	0.8	4.5	7.0
2nd Replacement	1.2	4.0	6.0



DESIGN DATA & GENERAL NOTES

- 1) Drawings comply with ASCE 11-11, 11-12, 11-13, 11-14, 11-15, 11-16, 11-17, 11-18, 11-19, 11-20, 11-21, 11-22, 11-23, 11-24, 11-25, 11-26, 11-27, 11-28, 11-29, 11-30, 11-31, 11-32, 11-33, 11-34, 11-35, 11-36, 11-37, 11-38, 11-39, 11-40, 11-41, 11-42, 11-43, 11-44, 11-45, 11-46, 11-47, 11-48, 11-49, 11-50, 11-51, 11-52, 11-53, 11-54, 11-55, 11-56, 11-57, 11-58, 11-59, 11-60, 11-61, 11-62, 11-63, 11-64, 11-65, 11-66, 11-67, 11-68, 11-69, 11-70, 11-71, 11-72, 11-73, 11-74, 11-75, 11-76, 11-77, 11-78, 11-79, 11-80, 11-81, 11-82, 11-83, 11-84, 11-85, 11-86, 11-87, 11-88, 11-89, 11-90, 11-91, 11-92, 11-93, 11-94, 11-95, 11-96, 11-97, 11-98, 11-99, 11-100.

MBI
Mayer Bros., Inc.
2000 Gallon Septic Tank
2-Compartment
Stock Item (Approx. 19,000 lbs)
Aug 11, 2008

BUILDER:
NV HOMES, INC.
9720 PATUXENT WOODS DR.
SUITE 100
COLUMBIA, MD 21046
410-379-5956

OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414

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

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: 06-08-2020.

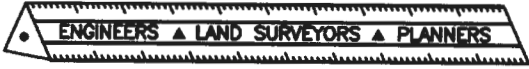


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ELIJAH CITY, MARYLAND 21043
(P) 410-485-6105 A (F) 410-485-8844
WWW.BEI-CVLENGINEERING.COM

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TITLE:	ONSITE SEPTIC DESIGN SYSTEM PLAN	
HOUSE TYPE:	REGENTS PARK II - ELEVATION E	
DATE:	JULY, 2018	PROJECT NO. 2627
SCALE:	AS SHOWN	DRAWING 2 OF 2

THIS PLAN IS FOR SEPTIC DESIGN ONLY

BENCHMARK



ENGINEERING, INC.

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

LETTER OF TRANSMITTAL

DATE	6/01/18	PROJECT No.	2627
ATTENTION	Dana Bernard		
RE:	Brighton Mill II		
	perc Cert Lot 4		
	OSDS Lot 4		

TO: Howard County
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	Lot 4 Onsite Septic Disposal System Plan
3	1	Lot 4 Perc Cert

THESE ARE TRANSMITTED as checked below

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

REMARKS: _____

COPY TO: _____
 RECEIVED BY: _____

SIGNED: _____

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