

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: 10/2/18

ONSITE SEWAGE DISPOSAL SYSTEM

P 564016

APPROVAL DATE: 11/1/18 SEC

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 13606 Curtis Vista Way

SUBDIVISION: Brighton Mill II

LOT: 11

TAX ID: 05-600592

CONTRACTOR: South Carroll Backhoe

EMAIL: schaekhoe@comcast.com

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: N/A

PUMP SIZE N/A

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>3' 2"</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2</u>
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: Dana Bernard

ISSUE DATE: 10/2/18

EXPIRATION DATE: 10/2/19

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

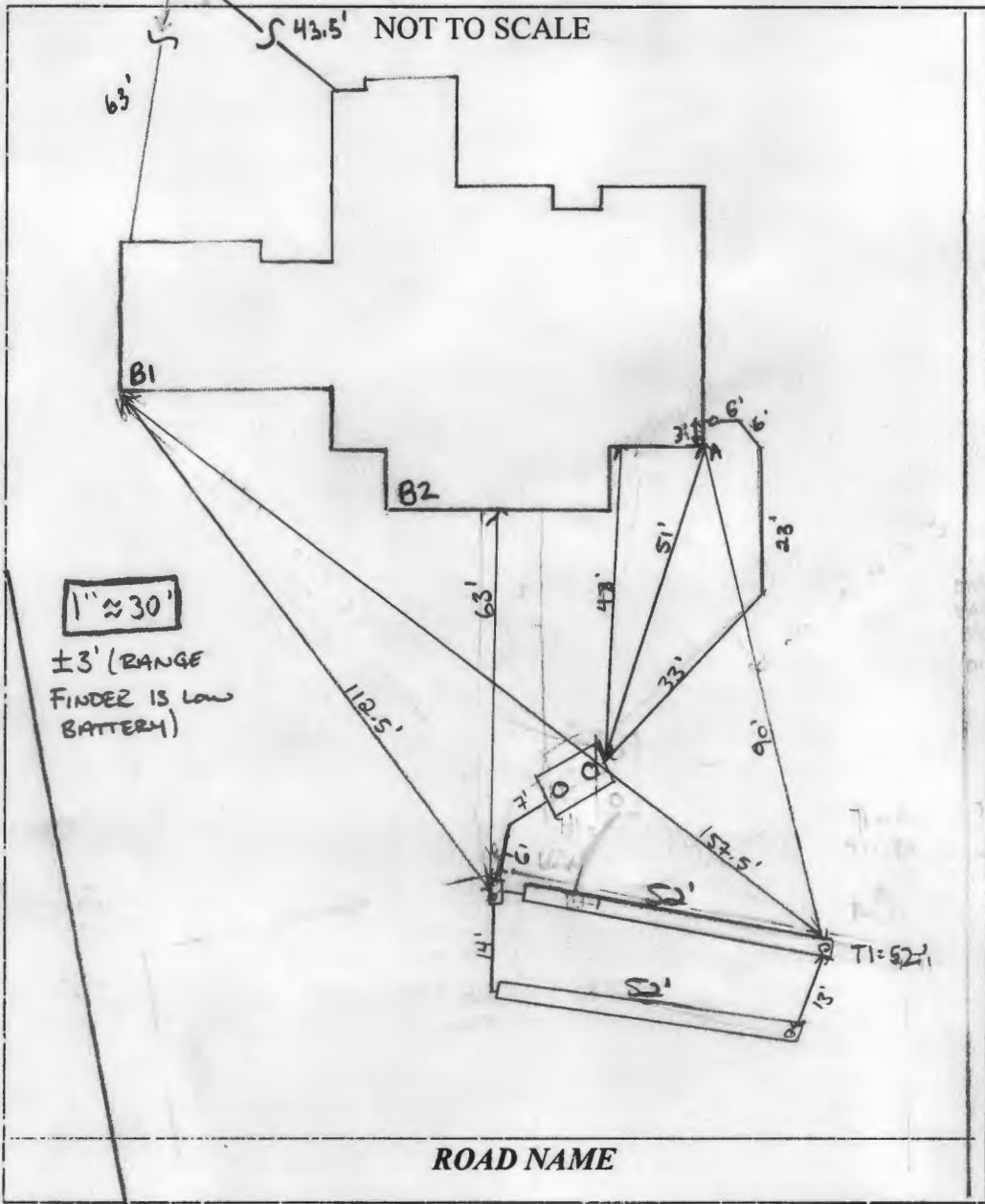
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

40-17-0157

43.5' NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		104'
ABSORPTION AREA		312' + 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	1.5' to 2'
BAFFLES	FRONT & back - only observed back on 10/24
BAFFLE FILTER	-
MANHOLE LOC	FRONT & back
6" PORT LOC	INLET
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	9/11/18

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:

10/17/18 Met S. Carroll on site for layout. SDM corners + tank staked. Shot contour and laid out 2 - 52' trenches. House connection on side of house past chairs - will make fall to trenches w/ 2' inlet. (S)

INSTALLATION:

10/24/18 - site inspection contractor on site, tank set w/ line to dbox and dbox to T1 trench, line from the house not done yet, 4" baffle on back end of tank, no plumbing on front end yet, not verified, T1 trench complete - observed stone pipe & cloth (ok to backfill), 2' inlet to T1. T1 52' long 3' wide, stone looks good, H2O well observed & not protected from construction, on debris added contractor to tell builder about it. (S) 10/25/2018 T2 COMPLETE. D BOX LEVELED w/ SPEED LEVELS. Ok TO BACKFILL. (S) REINSP. SHC. (S) 11/1/18 House connection made. (S)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 11/1/18

CURTIS VISTA WAY

PUBLIC ACCESS PLACE

50' R/W

EXISTING PRIVATE 50' WIDE
PIPE LINE EASEMENT
DEED 266/248
ATLANTIC SEABOARD COMPANY
N33°33'22"E

175.00'

EXISTING PRIVATE 30'
WIDE FIBER OPTIC
CABLE RIGHT-OF-WAY
DEED 4905/465

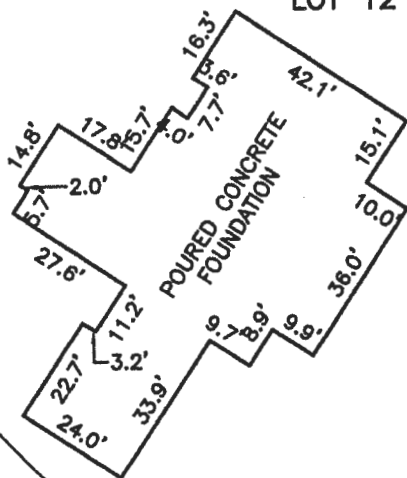
N56°26'38"W
82.73'

EX. WELL
TAG#HO-17-0157

30' BRL FROM TRANSMISSION R-O-W

112.2'

LOT 12



FOUNDATION DETAIL
SCALE: 1" = 40'

LOT 10

SEE DETAIL

10' BRL

380.13'
S56°26'38"E

N66°48'23"W
285.31'

10' BRL

183.6'

LOT 11

50' BRL

124.79'

S41°14'26"W

EXISTING 10' PUBLIC TREE
MAINTENANCE EASEMENT
LIBER 11029 FOLIO 483

BROCCOLINO WAY
PUBLIC ACCESS STREET
PLAT No. 19461

VEHICULAR INGRESS AND
EGRESS IS RESTRICTED
EXISTING VARYING WIDTH
PUBLIC STORM DRAIN
DRAINAGE & UTILITY EASEMENT
PLAT NO. 19461

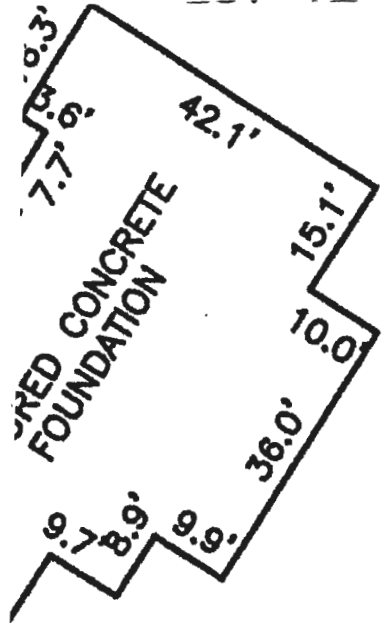
SURVEYOR'S CERTIFICATE

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 09/17/2018.



TOP OF FOUNDATION WALL = 528.5'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

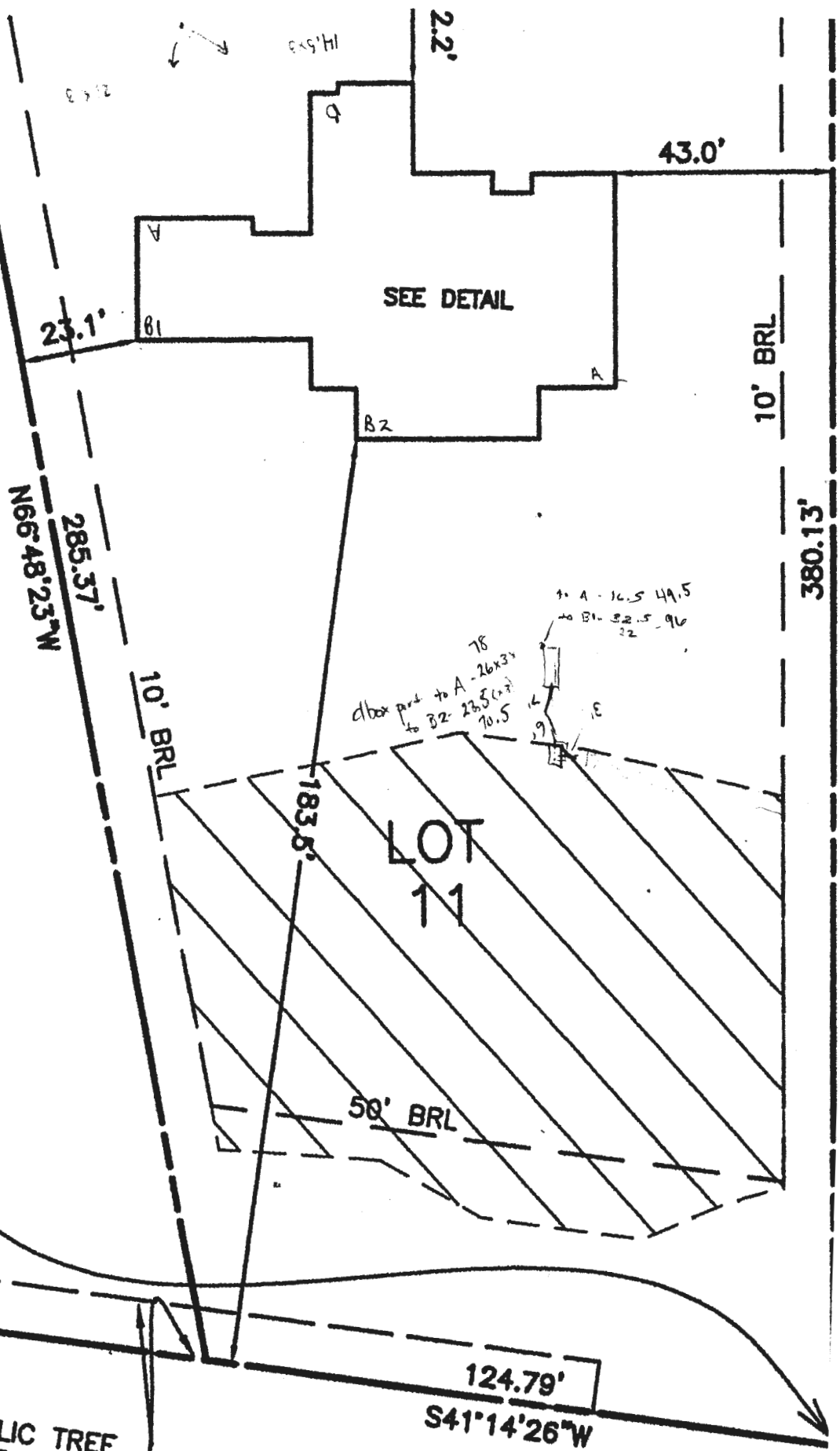
10/2/18 - wall check
okay. H.O.



FOUNDATION DETAIL
 SCALE: 1" = 40'

VEHICULAR INGRESS AND
 EGRESS IS RESTRICTED
 TO VARYING WIDTH
 STORM DRAIN
 UTILITY EASEMENT

EXISTING 10' PUBLIC TREE
 MAINTENANCE EASEMENT
 LIBER 11029 FOLIO 483





LEGEND	
SOILS CLASSIFICATION	GgC
SOILS DELINEATION	—
PROPOSED CONTOURS	— 480 — — 478 —
EXISTING CONTOURS	— 480 — - - 478 - -
LIMIT OF WETLANDS	—
EXISTING WOODS LINE	—
PROPOSED WOODS LINE	—
EXISTING STRUCTURE	—
EXISTING WELL	⊙
EXISTING WELL BOX	□
EXISTING SEWAGE DISPOSAL AREA	—
EXISTING PRIVATE PIPE LINE EASEMENT AREA	—
SWM DRAINAGE 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-17-0157, 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 ONE MICRO-BIORETENTION FACILITY. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
 10. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
 11. FOR DEVELOPMENT LANDSCAPING SEE ROAD CONSTRUCTION PLANS F-17-054.

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.



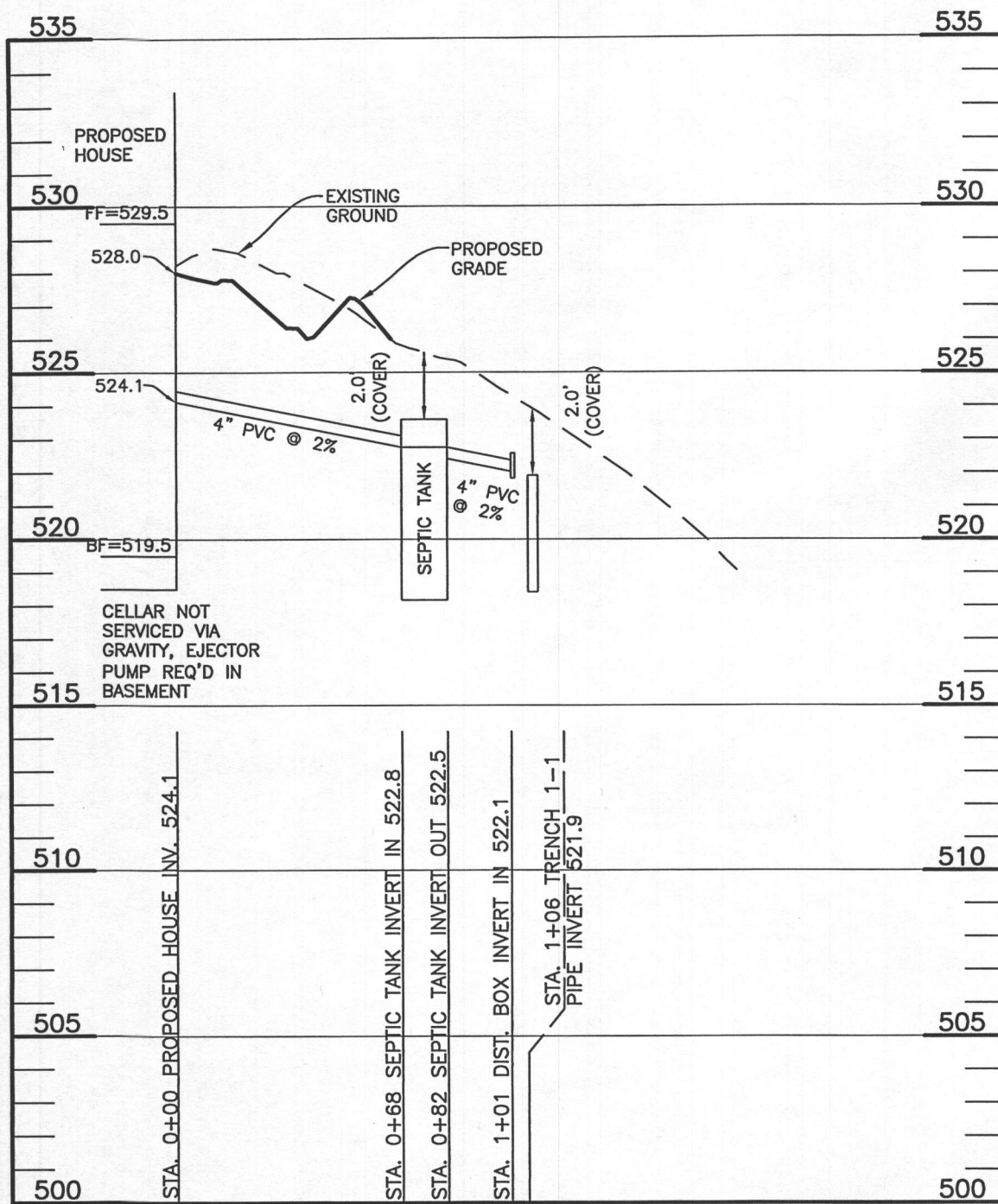
5/24/18



PLAN VIEW
1" = 50'

BUILDER: NV 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	BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 & (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM
---	---	---

PROJECT:	BRIGHTON MILL II	
	LOT 11	
LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13610 BROCCOLINO WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600592	
TITLE:	ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN	
HOUSE TYPE:	STRATFORD HALL - ELEVATION K	
DATE:	MAY, 2018	PROJECT NO. 2627
SCALE:	AS SHOWN	DRAWING 1 OF 2

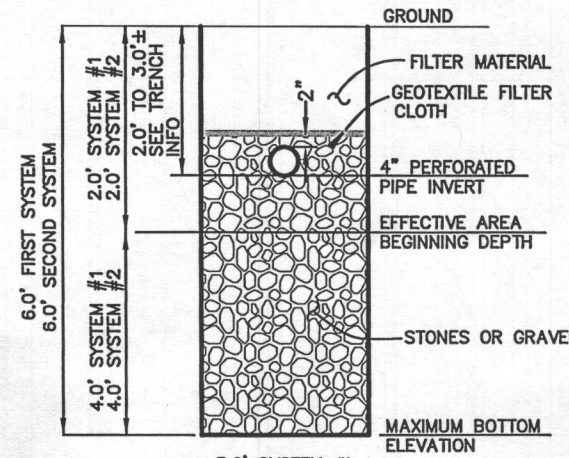


LOT 11 SEPTIC
SCALE: 1"=50' HORIZ., 1"=5' VERT.

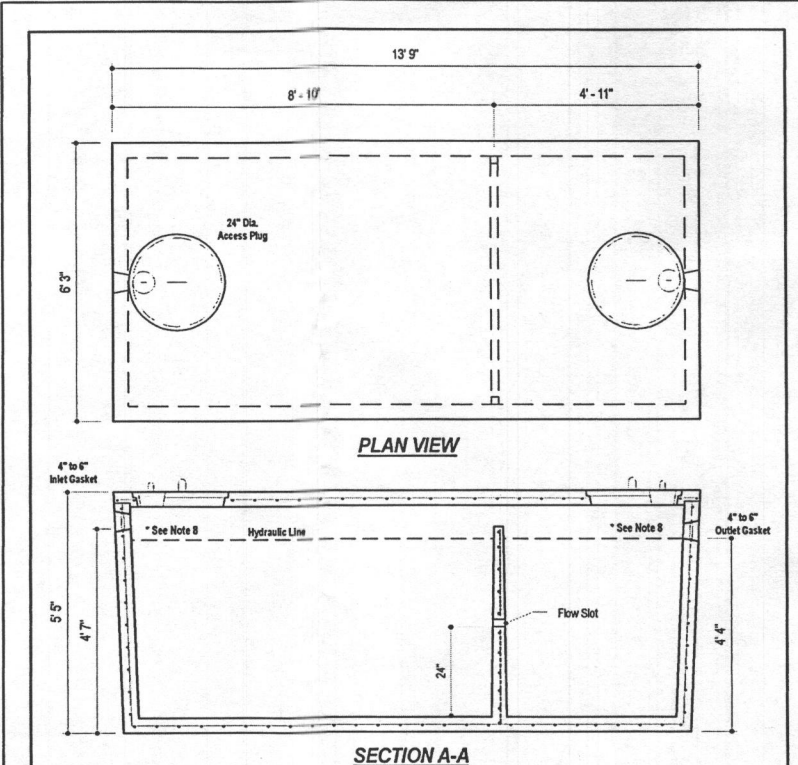
TRENCH DATA			
INITIAL SYSTEM		FIRST REPLACEMENT	
TRENCH 1-1		TRENCH 2-1	
LENGTH	52.1 ft	LENGTH	52.1 ft
GROUND ELEVATION	523.9	GROUND ELEVATION	520.9
INVERT ELEVATION	521.9	INVERT ELEVATION	518.9
MAX BOTTOM ELEVATION	517.9	MAX BOTTOM ELEVATION	514.9
TRENCH 1-2		TRENCH 2-2	
LENGTH	52.1 ft	LENGTH	52.1 ft
GROUND ELEVATION	522.6	GROUND ELEVATION	519
INVERT ELEVATION	520.6	INVERT ELEVATION	517.0
MAX BOTTOM ELEVATION	516.6	MAX BOTTOM ELEVATION	513.0

HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 11			
System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	2.0	6.0
1st Replacement	1.2	2.0	6.0
2nd Replacement	0.8	4.0	6.0

Note: Basement is not sewer by gravity.



TYPICAL TRENCH DETAIL
NOT TO SCALE



DESIGN DATA & GENERAL NOTES
 [1] Concrete strength $f_c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
 [2] Cement - Portland Type III per ASTM C 150-92.
 [3] Admixtures & plasticizers per ASTM C 260-98 & C 494-92.
 [4] Reinforcing per ASTM A195, Min. 5-10" cover.
 [5] Top slab sealed with butyl rope mastic.
 [6] 4" wall, 4" base, 6" top thickness.
 [7] Max 2" of cover.
 [8] Depending on use of tank, Inlet & Outlet baffle may be required by code.

MBI
Mayer Bros., Inc.
www.mayerbrosprecast.com
6354 Rice Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438

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

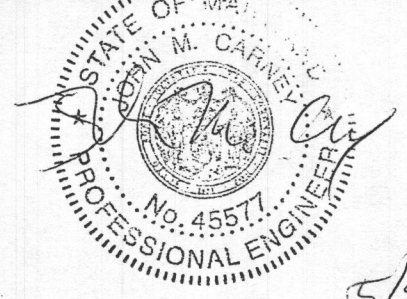
SEPTIC INVERT CHART - LOT 11	
INV @ HOUSE	524.1
GROUND @ HOUSE	528.0
INV IN TANK	522.8
INV OUT TANK	522.5
TOP OF TANK	523.6
GROUND OVER TANK	525.6
INV IN DIST BOX	522.1
INV OUT DIST BOX	522.0
GROUND AT DIST BOX	524.3

INITIAL SYSTEM - LOT 11		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	2.0	ft
Bottom Max Depth	6.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	104	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	6	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	2.0	ft
Bottom Max Depth	6.0	ft
Design Flow	900	gpd
Drainage Field square footage	750	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	104	lf

THIS PLAN IS FOR SEPTIC DESIGN ONLY

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.



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:

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 • (F) 410-465-6644
WWW.BEI-CMLENGINEERING.COM

PROJECT:	BRIGHTON MILL II LOT 11	
LOCATION:	TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13610 BROCCOLINO WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600592	
TITLE:	ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN	
HOUSE TYPE:	STRATFORD HALL - ELEVATION K	
DATE:	MAY, 2018	PROJECT NO. 2627
SCALE:	AS SHOWN	DRAWING 2 OF 2

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