

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: _____ ONSITE SEWAGE DISPOSAL SYSTEM P _____

APPROVAL DATE: _____ PERMIT: CONSTRUCTION A _____

PROPERTY ADDRESS: 739 DRIVER ROAD, MARRIOTTSVILLE, MD 21104

SUBDIVISION: PINEY RUN OVERLOOK LOT: 3 TAX ID: 03-600109

CONTRACTOR: _____ EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: REGINA and JOSEPH SMUTZ EMAIL: _____

OWNER ADDRESS: 799 DRIVER RAOD, MARRIOTTSVILLE, MD 21104 PHONE: (410)442-1708

SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROS., INC.

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

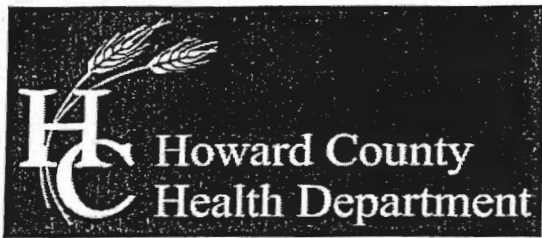
DISTRIBUTION SYSTEM: [] GRAVITY [] PRESSURE DOSED BEDROOMS: _____ APPLICATION RATE: _____

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 83, Inlet depth: 3.0, etc.)

ISSUED BY: R BRICKER ISSUE DATE: _____ EXPIRATION DATE: _____

- 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
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.



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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: Driver Road

Subdivision: Piney Run Overlook Lot: 3

Initial system:	38,3G,3C	Application rate: 1.2	Effective area beginning depth: 3	Bottom maximum depth: 8
1 st Replacement:	3C,3E	Application rate: 1.2	Effective area beginning depth: 2	Bottom maximum depth: 8
2 nd Replacement:	3H, 3D, 3D2	Application rate: 1.2	Effective area beginning depth: 2.5	Bottom maximum depth: 7

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

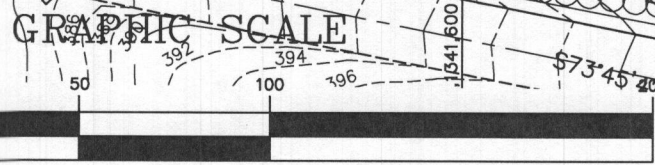
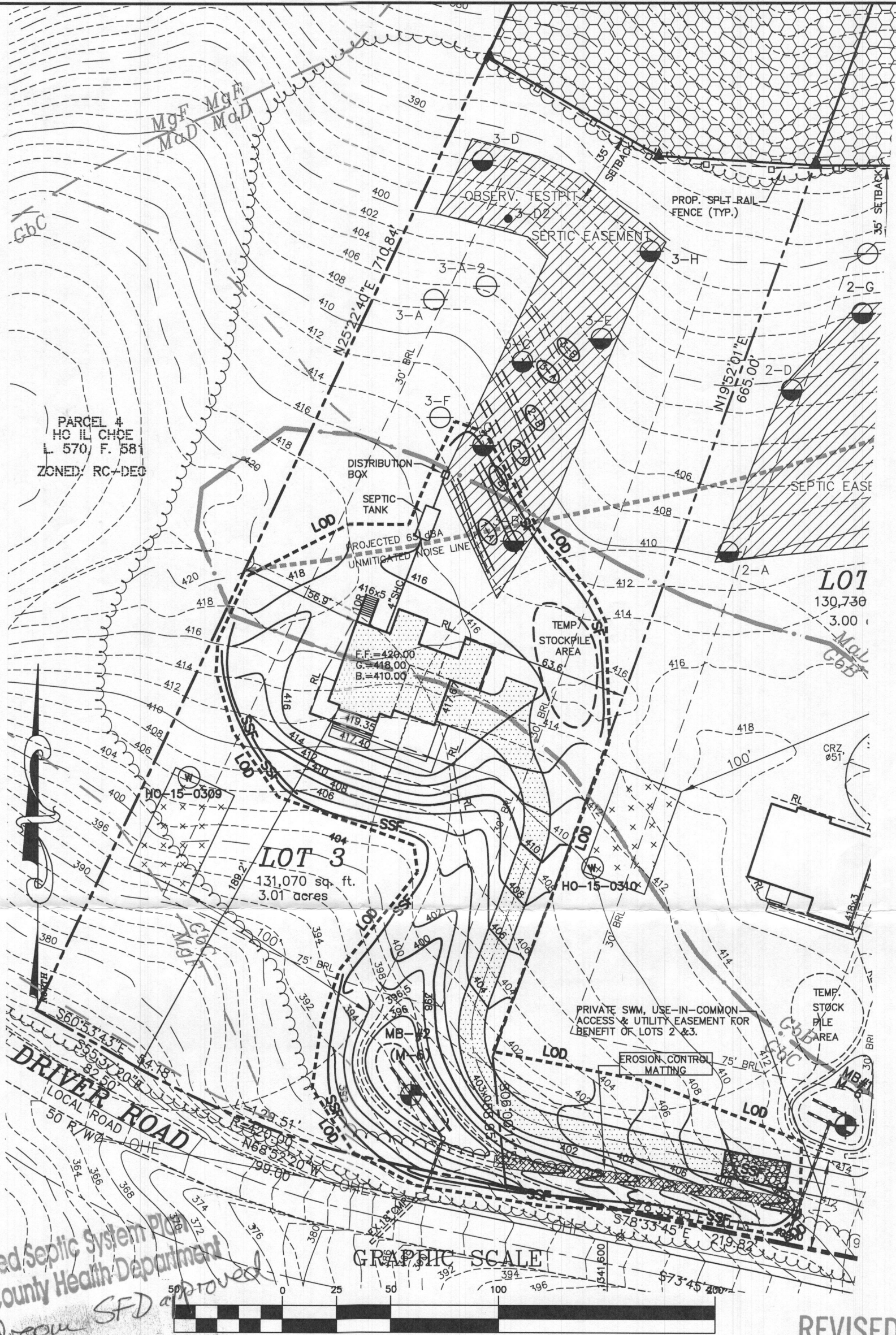
$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

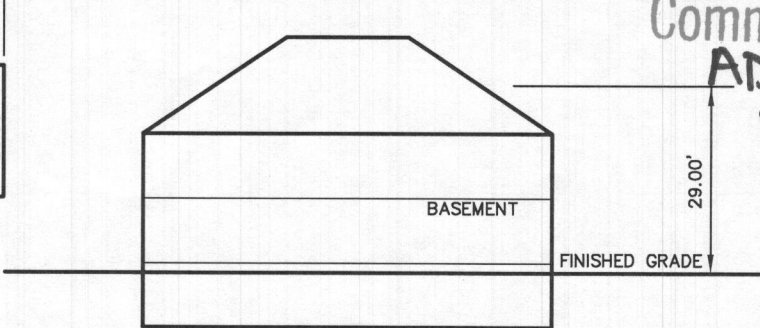
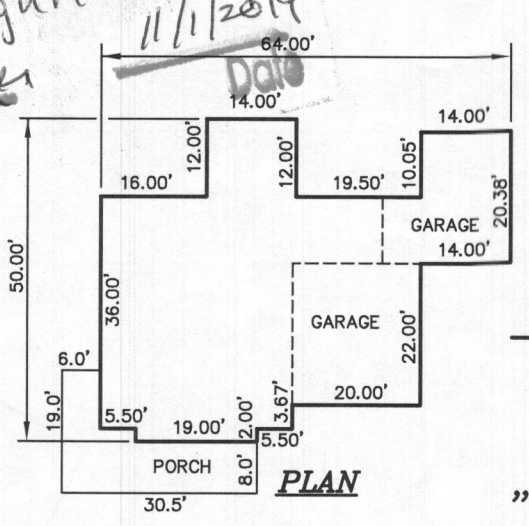
Additional requirements:

Approved: [Signature] Date: 6/16/15



Approved Septic System plan
 Howard County Health Department
 4-bedroom SFD approved
 See OSDS Design Plan
 11/1/2019
 Signature

REVISED
 Date: 10/17/19
 Comments: B19003176
 ADD WELL #
 PER HEALTH
 DEPT



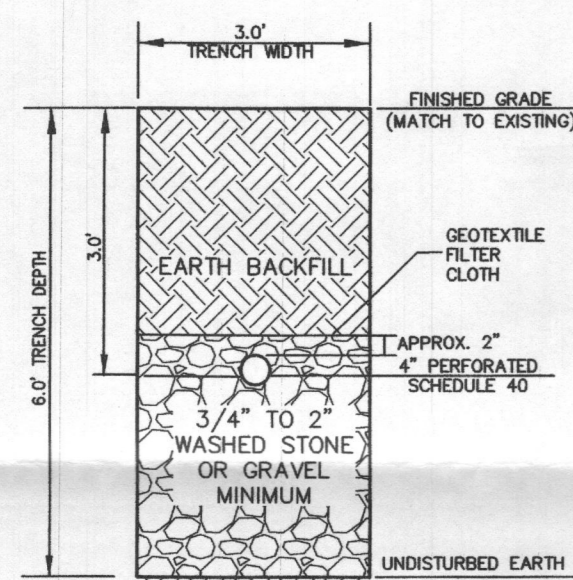
"LIBERTY"

<p>MILDENBERG, BOENDER & ASSOC., INC. Engineers Planners Surveyors 7350-B Grace Drive, Columbia, Maryland 21044 (410) 997-0296 Balt. (410) 997-0298 Fax.</p>	<p>PINEY RUN OVERLOOK, LOT 3 739 RIVER ROAD MARIOTTSVILLE, MARYLAND 21104</p>
	<p>SCALE 1"=50' DRAWN BY: MMM</p>

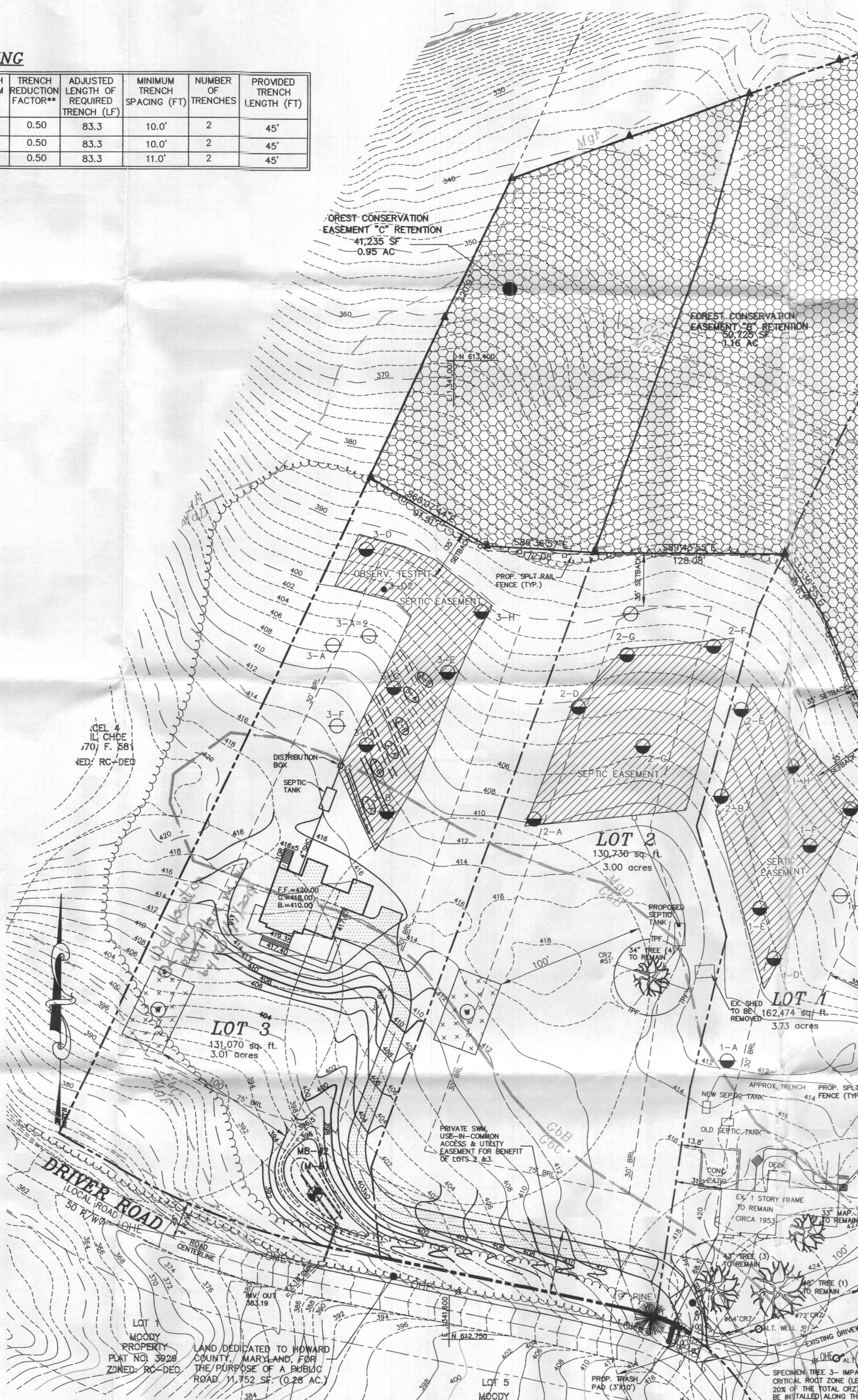
SOILS TABLE			
SYMBOL	RATING	NAME	MAP NO.
DgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.37
DgC	(B)	GLENELG LOAM, 8-15% SLOPES.	.37
MdD	(B)	MANOR LOAM, 15-25% SLOPES	.32
MgF	(B)	MANOR-BANNERTOWN SANDY LOAM, 25-68% SLOPES (ROCKY)	.32

SEPTIC TRENCH SIZING

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF TRENCH (LF)	EFFECTIVE DEPTH BEGINS (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	1.2	600	500	3	166.7	3.0	6.0	0.50	83.3	10.0'	2	45'
SECONDARY	1.2	600	500	3	166.7	2.0	5.0	0.50	83.3	10.0'	2	45'
TERTIARY	1.2	600	500	3	166.7	2.5	5.5	0.50	83.3	11.0'	2	45'



PRIMARY TRENCH DETAIL
NOT TO SCALE



ON-SITE SEWAGE DISPOSAL SYSTEM:

RESIDENTIAL SYSTEM DESIGN:
4 BEDROOM HOUSE
(LIVING AREA=2,330 SQ.FT.)
150 GALLONS X # OF BEDROOMS =
VOLUME OF WASTEWATER /DAY
150 X 4 = 600 GPD
PERC RATE = 2-5 MINUTES/INCH
APPLICATION RATE = 1.2 GPD/SQ.FT.
DESIGN FLOW + APPLICATION RATE =
SQ.FT. OF TRENCH REQUIRED
600 ÷ 1.2 = 500 SQ.FT.
SQ.FT. REQUIRED ÷ WIDTH OF TRENCH
= LENGTH OF TRENCH
500 ÷ 3.0' = 166.7 FT.
USE 36" OF GRAVEL BELOW DRAIN PIPE
166.7 X 0.5 = 83.3 FT
USE TWO (2) REQUIRED LENGTH OF TRENCHES (41.7')
PROVIDED (45')
A MINIMUM OF 10' BETWEEN TRENCHES
UTILIZING SIDEWALL REDUCTION CREDIT.
MINIMUM TANK CAPACITY = 1,500 GALLONS
USE MAYER BROS. PRODUCT OR EQUIVALENT.

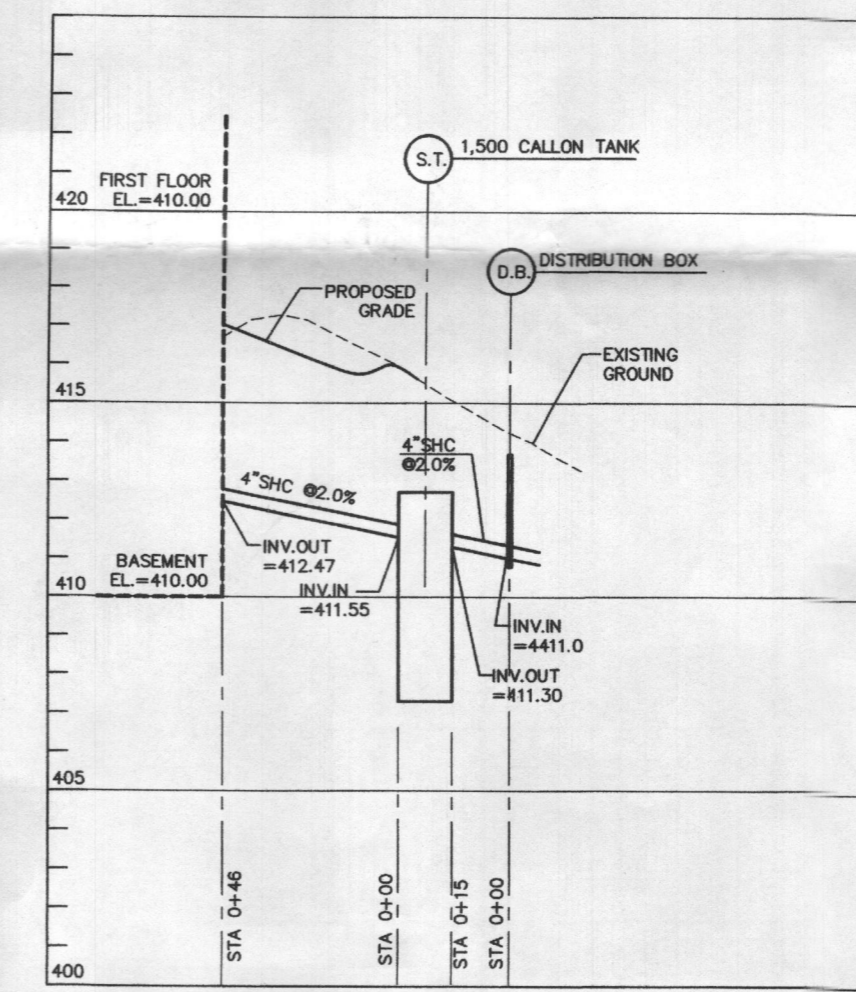
SEPTIC TRENCH ELEVATIONS

TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
PRIMARY A	414.0	411.0	408.0
PRIMARY B	412.8	409.8	406.8
SECONDARY A	411.3	409.3	406.3
SECONDARY B	409.5	407.5	404.5
TERTIARY A	407.0	404.5	401.5
TERTIARY B	405.0	402.5	399.5

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:
TAX MAP : 05
PARCEL : 007
LOT : 3
RECORD PLAT #24296-97
ELECTION DISTRICT : THIRD
ZONING : RR-DEO.
AREA : 3.01 ACES
DPZ FILES : F-16-092, ECP-15-060
ADDRESS : 739 DRIVER ROAD, MARRIOTTVILLE, MD 21104
- 2" TYPOGRAPHY IS BASED ON FIELD RUN SURVEY PERFORMED BY MILDENBERG, BOENDER & ASSOC., INC. ON OR ABOUT OCTOBER 2012.
- PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- ANY CHANGES TO THE LOCATION OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ANY WELLS OR SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

Approved Septic System Plan
Howard County Health Department
1500-gal Septic Tank
To gravity drain field
for 4-bedroom STD
Signature: [Signature] Date: 8/7/19

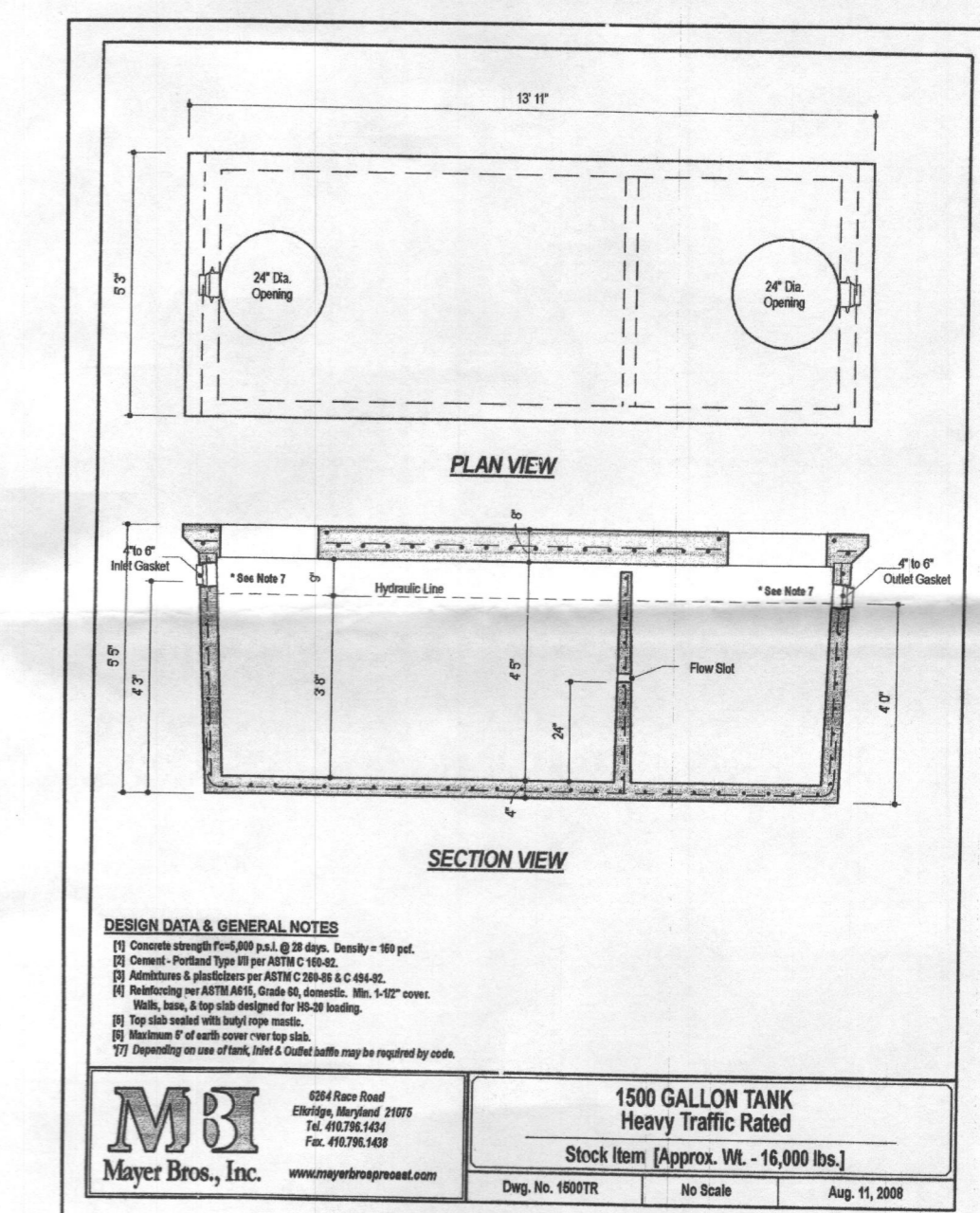


PRIVATE SEWER PROFILE
SCALE: HOR. 1"=50'
VER. 1"=5'

SEWER SYSTEM ELEVATIONS

DESCRIPTION	ELEVATION
BASEMENT ELEVATION	410.00
FIRST FLOOR ELEVATION	420.00
INVERT OUT OF HOUSE	412.47
INVERT INTO SEPTIC TANK	411.55
INVERT OUT OF SEPTIC TANK	411.30
FINISHED GRADE AT SEPTIC TANK	416.00
TOP OF THE TANK	412.72
INVERT INTO DISTRIBUTION BOX	411.00

NOTE:
NO GRAVITY SEWER TO THE BASEMENT IS PROVIDED



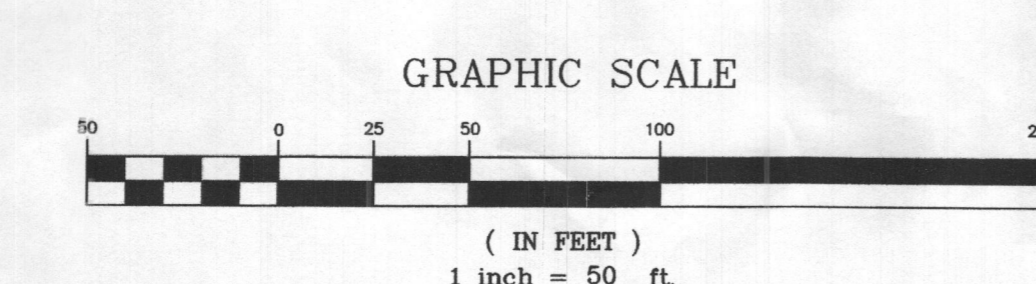
1500 GALLON TANK
Heavy Traffic Rated
Stock Item [Approx. Wt. - 16,000 lbs.]
Mayer Bros., Inc. www.mayerbros.com
Dep. No. 190771 No. 8000 Aug. 11, 2008

WELL CERTIFICATION:

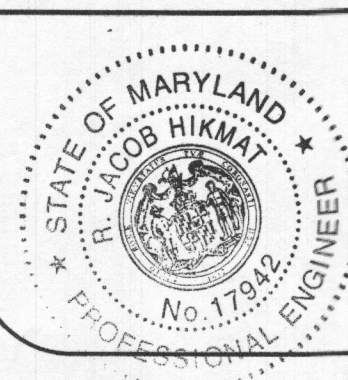
THE EXISTING WELL, TAG NO. HO-15-0309, HAS BEEN FIELD LOCATED AND IT IS ACCURATELY SHOWN.

OWNER/DEVELOPER
KEVIN AND SARA HUBER
4970 DORSEY HALL DRIVE UNIT B5
ELLCOTT CITY, MARYLAND, 21042
301-233-6918

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.: 17942, EXPIRATION DATE: 09/03/2020
R. JACOB HIKMAT, PE 08/01/19 DATE



P:\200419-010\Draw Run Overlook\LOT 3\DWG\19-010-PILOT PLAN LOT 3.DWG



date	JULY 2019
project	19-010
illustration	MMM
scale	1"=50'
approval	MMM

date	
description	
revisions	
no.	

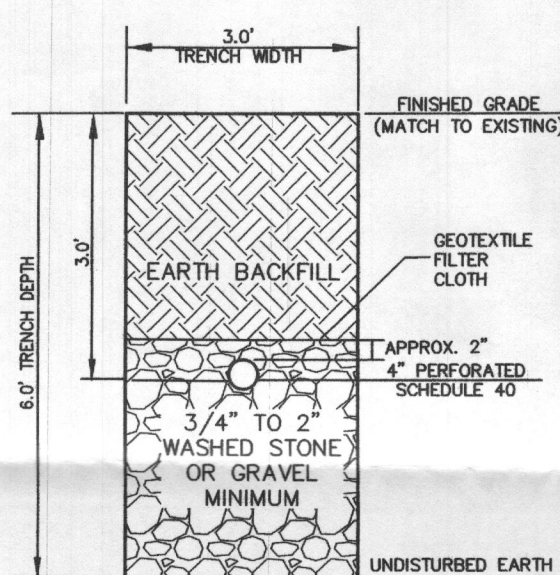
PINEY RUN OVERLOOK
LOT 3
TAX MAP 05, GRID 22, PARCEL 007, LOT 3
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ON-SITE SEWAGE DISPOSAL PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Surveyors
Planners
7350-B Crags Drive, Columbia, MD 21044
(410) 997-0298 Fax: (410) 997-0298

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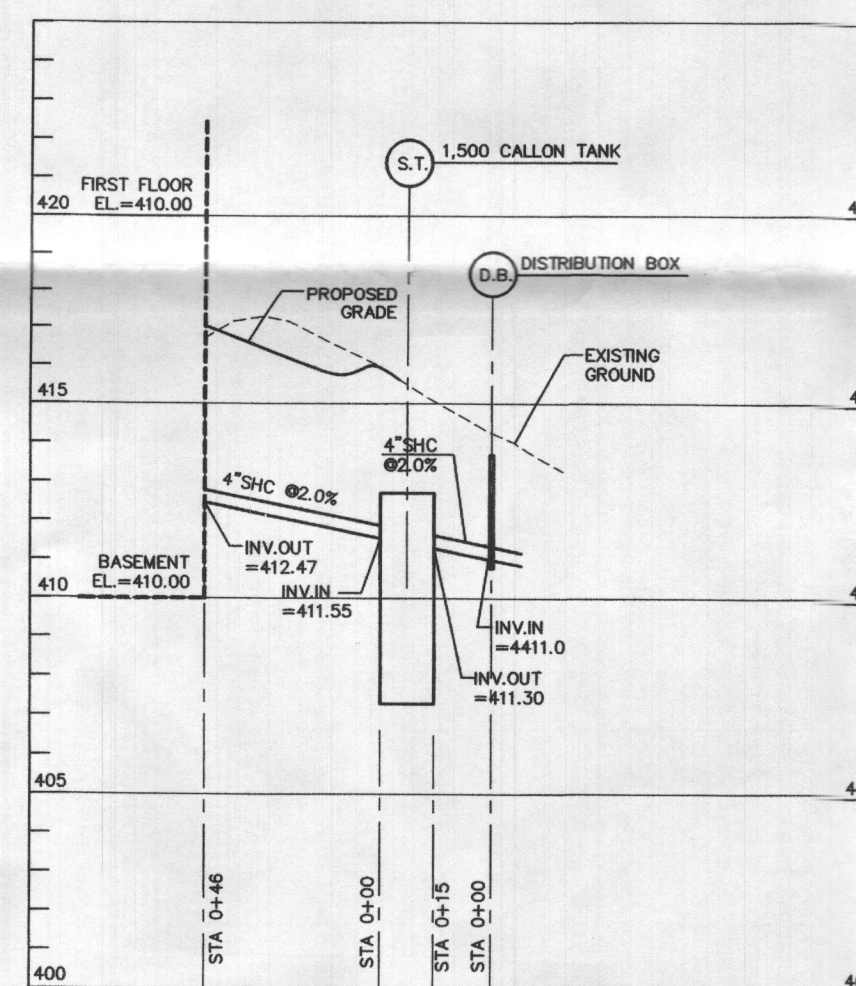
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Howard County Health Department
1500-gal Septic Tank
to gravity drain field
for 4-bedroom SFD
R. Buick
Signature
8/2/19
Date

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PARCEL : 007
LOT : 3
RECORD PLAT #24296-97
ELECTION DISTRICT : THIRD
ZONING : RR-DEO.
AREA : 3.01 AC±
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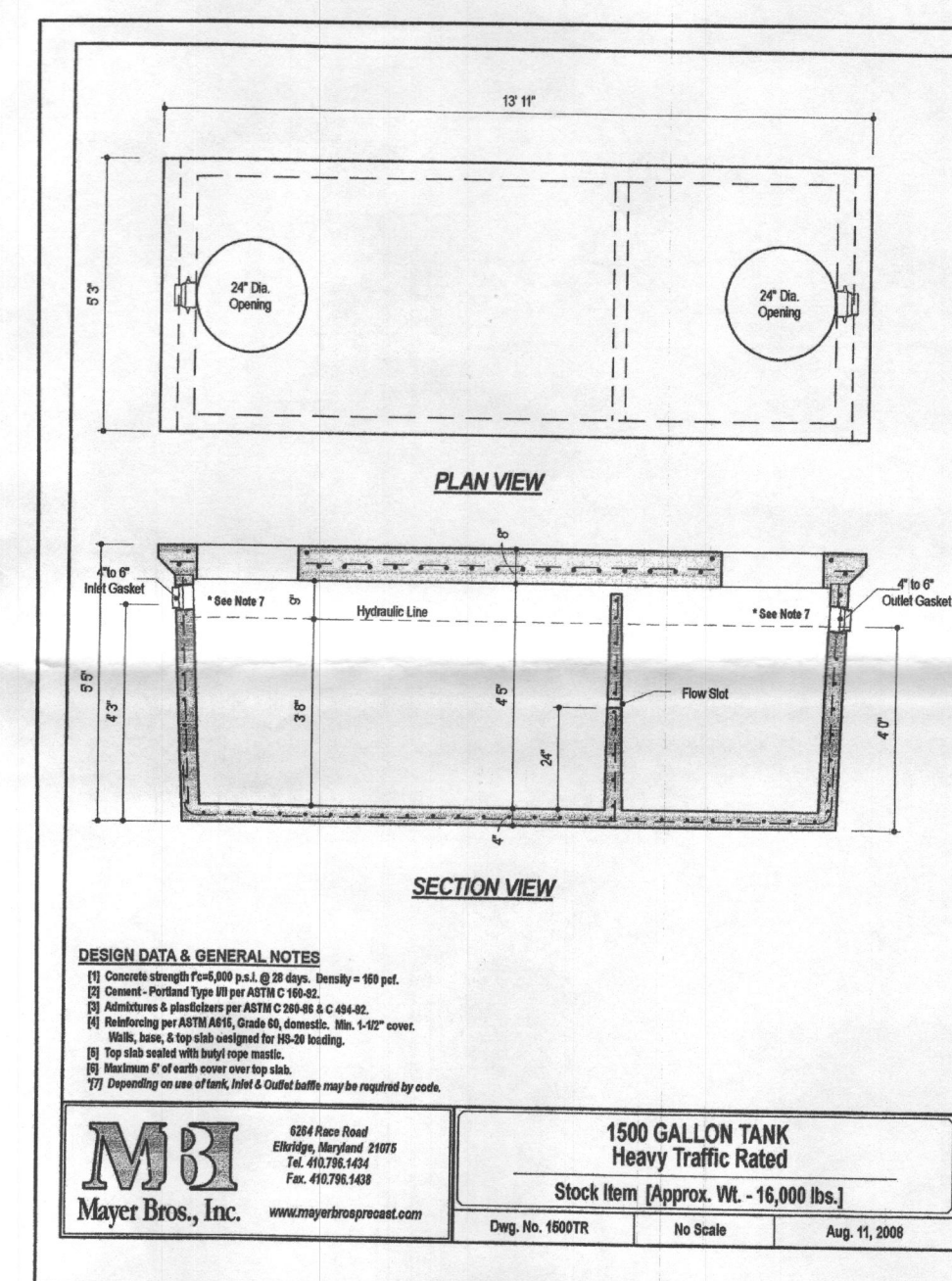


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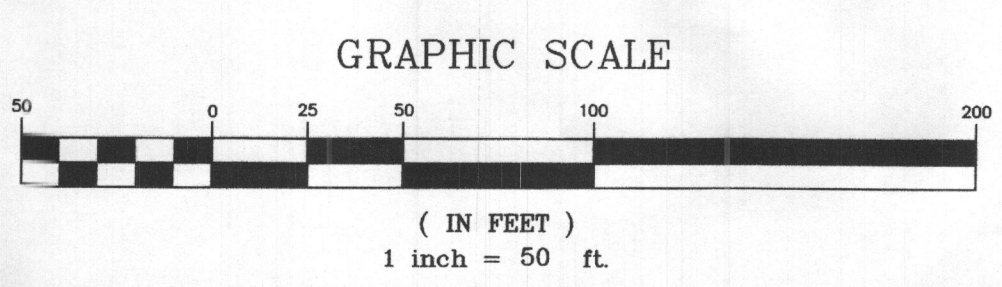


DESIGN DATA & GENERAL NOTES:
1) Minimum cover shall be 3 feet.
2) Cover: Polymer Type III per ASTM D 2383.
3) Installation per manufacturer's instructions.
4) Backfill per ASTM D 1557, Grade III, to 150 lbs./cu. yd.
5) All pipe shall be installed with proper slope.
6) Minimum of 10' between tanks.
7) Property lines shown for reference only.

MAYER BROS., INC.
1500 GALLON TANK
Heavy Traffic Rated
Stock Item [Approx. Wt. - 16,000 lbs.]
Aug. 11, 2010

WELL CERTIFICATION:

THE EXISTING WELL, TAG NO. HO-15-0309, HAS BEEN FIELD LOCATED AND IT IS ACCURATELY SHOWN.



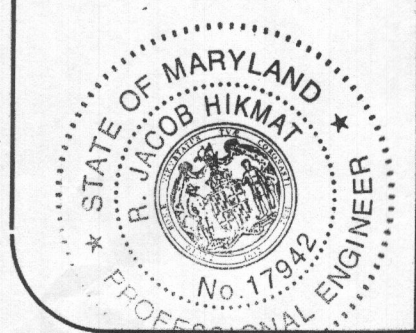
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R. JACOB HIKMAT, PE
08/21/19
DATE

P:\200419-019\My Run Overlook\LOT 3\DWG\19-010-PL01 PLAN LOT 3.DWG



date	JULY 2019
project	19-010
illustration	MMM
scale	1"=50'
approval	MMM

date	
description	
revisions	
no.	

PINEY RUN OVERLOOK
LOT 3
TAX MAP 05, GRID 22, PARCEL 007, LOT 3
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
ONSITE SEWAGE DISPOSAL PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7350-B Grace Drive, Columbia, MD 21044
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