

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: 1/17/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564733
 APPROVAL DATE: 1/30/2020 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 13465 CHAROLAIS COURT, HIGHLAND, MD, 20777
 SUBDIVISION: TAX MAP 34, PARCEL 74 (ALLNUT PROPERTY) LOT: ---- TAX ID: 05-438888
 CONTRACTOR: Sam's Creek EMAIL: _____
 CONTRACTOR ADDRESS: 2810 Sams Creek Rd, NEW Windsor, MD 21776 PHONE: 443-821-4932
 PROPERTY OWNER: BAHA AND ZAINAB MAJID EMAIL: _____
 OWNER ADDRESS: 5103 SPRING OAKS LANE, ELLICOTT CITY, MD 21043 PHONE: _____
 SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: MAYER BROS., INC.
 PUMP MODEL: GOULDS WE05H PUMP SIZE 0.5 hp PUMP TANK CAPACITY: 2000

DISTRIBUTION SYSTEM: ^{XX} GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>130</u>	INLET DEPTH: <u>4.0</u> ✓
	TRENCH WIDTH: <u>3</u> ✓	MAXIMUM BOTTOM DEPTH: <u>6.0</u> ✓
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</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: R BRICKER ISSUE DATE: _____ EXPIRATION DATE: 1/17/2020

- 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 _____
- 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.**

NOT TO SCALE

See Separate sheet
for As-Built

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	6'
NUMBER OF TRENCHES		3
TOTAL LENGTH		132'
ABSORPTION AREA		396' + SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes (90° bend)
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon (S)
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	4'
BAFFLES	Yes
BAFFLE FILTER	-
MANHOLE LOC	Front/Rear
6" PORT LOC	None
WATERTIGHT TEST	-
SLOTTED	Yes
DATE ON LID	N/A

PUMP/SEPTIC TANK LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	2 1/2 - 3'
BAFFLES	Front
BAFFLE FILTER	-
MANHOLE LOC	Front/Rear
6" PORT LOC	None
WATERTIGHT TEST	-
SLOTTED	NO
DATE ON LID	

PRE-CONSTRUCTION:

1/25/19 Met contractor onsite. Confirmed stake-out. SOA property line and trench ends staked. Trenches are w/in 3 inches elevation. OK to install system per plan. Contractor wanted to set both tanks and run STC. OK' but must leave open for Monday inspection (KMD)

INSTALLATION:

1/29/19 Ex. S.T. hole dug. Tank bays set. Pump tank hole had water to 3'. Contractor could not set P.T. Told him OK to raise tank just after S.T. (KMD) 2/18/19 Contractor set P.T. - no ground water in new location directly after S.T. Tanks are shallower now. F.M. completed, installed. Finishing up 2nd lower trench. OK to continue lower works completed (KMD) 2/6/19 Trenches complete. Will need pump/alarms test for final inspection (KMD) 1/30/20 Gold's O.S.H.P. pump installed Alarm function in basement. Obs water flowing in d-box (ST)

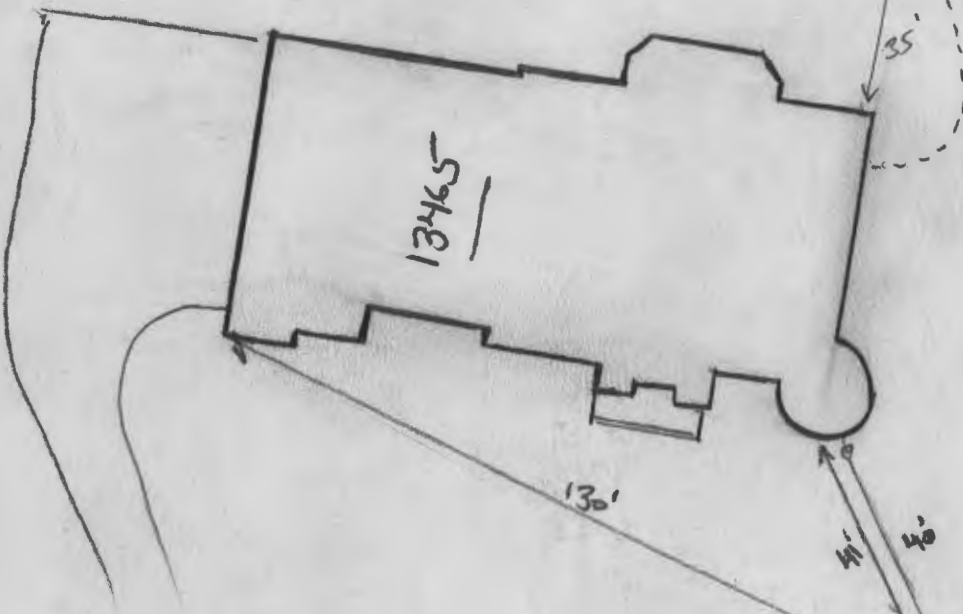
FINAL INSPECTOR

Susan Thomas

DATE OF APPROVAL

1/30/2020

1" = 30'



375' 2" P.M.



(system installed per plan)

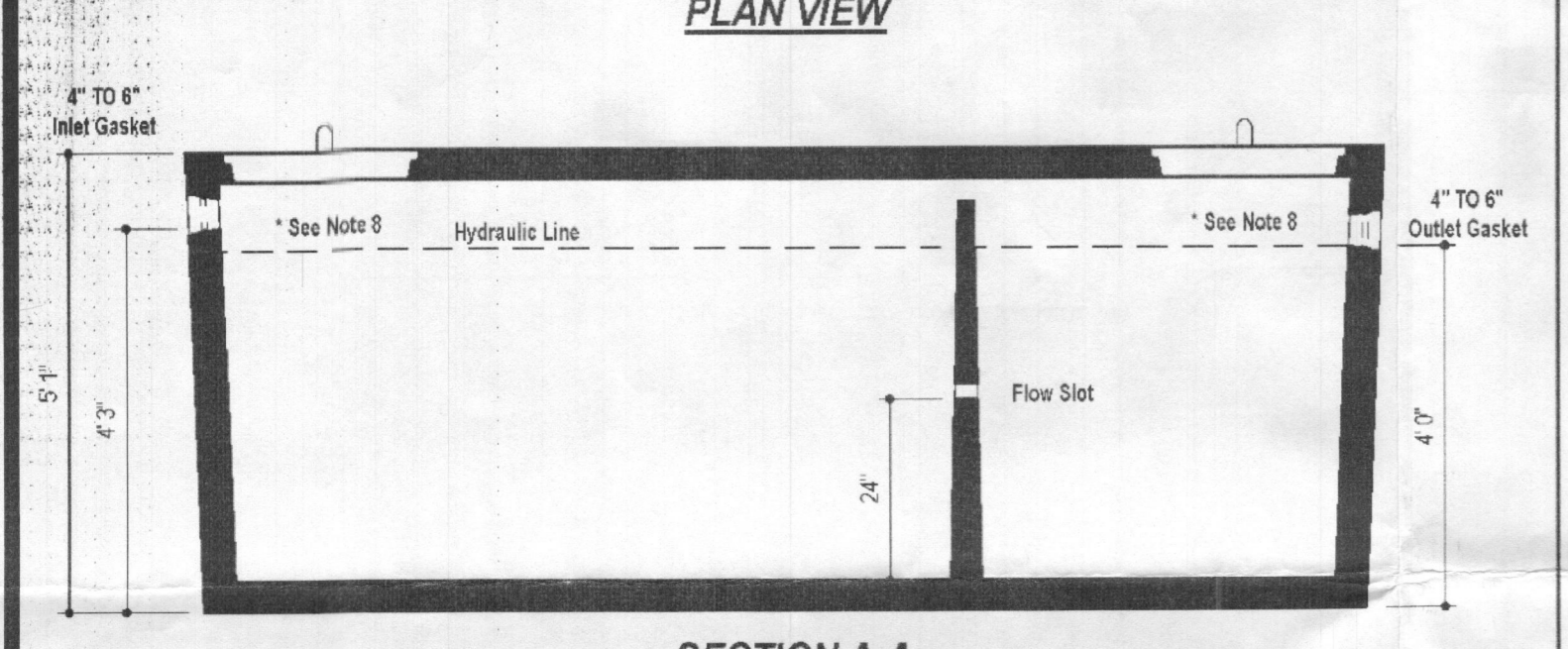
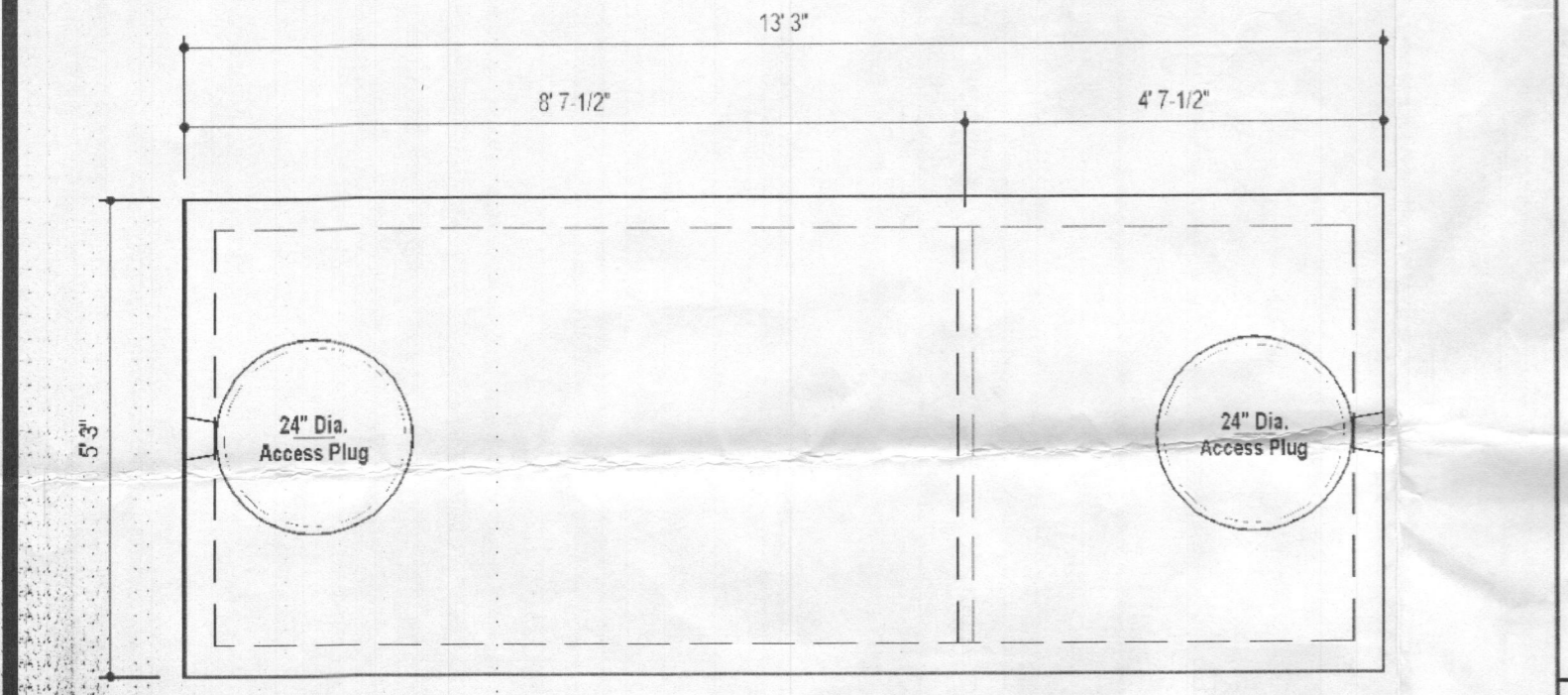
Apex Property Line

SEPTIC TEST LEGEND

⊙ Perc Test Pass ⊙ Perc Test Fail

SEPTIC TEST RESULTS

TEST ID	TEST TYPE	TEST COMMENTS	SAN	TEST DATE
A	⊙	3m@4.25', excavated to 13.0'	kjb	2004-11-05
624	⊙	water@8.0'	kjb	2004-11-05
625	⊙	2m@3.0', excavated to 10.0'	kjb	2004-11-05
626	⊙	2m@5', excavated to 12.5'	kjb	2004-11-05
627	⊙	2m@3.0', excavated to 11.0'	kjb	2004-11-05
628	⊙	no test	kjb	2004-11-05
629	⊙	slow@5', excavated to 12.5'	kjb	2004-11-05
630	⊙	water@7.0'	kjb	2004-11-05
631	⊙	excavated to 11.0'	kjb	2004-11-05
683	⊙	4m@7.0', excavated to 15.25'	kjb	2004-11-05



DESIGN DATA & GENERAL NOTES

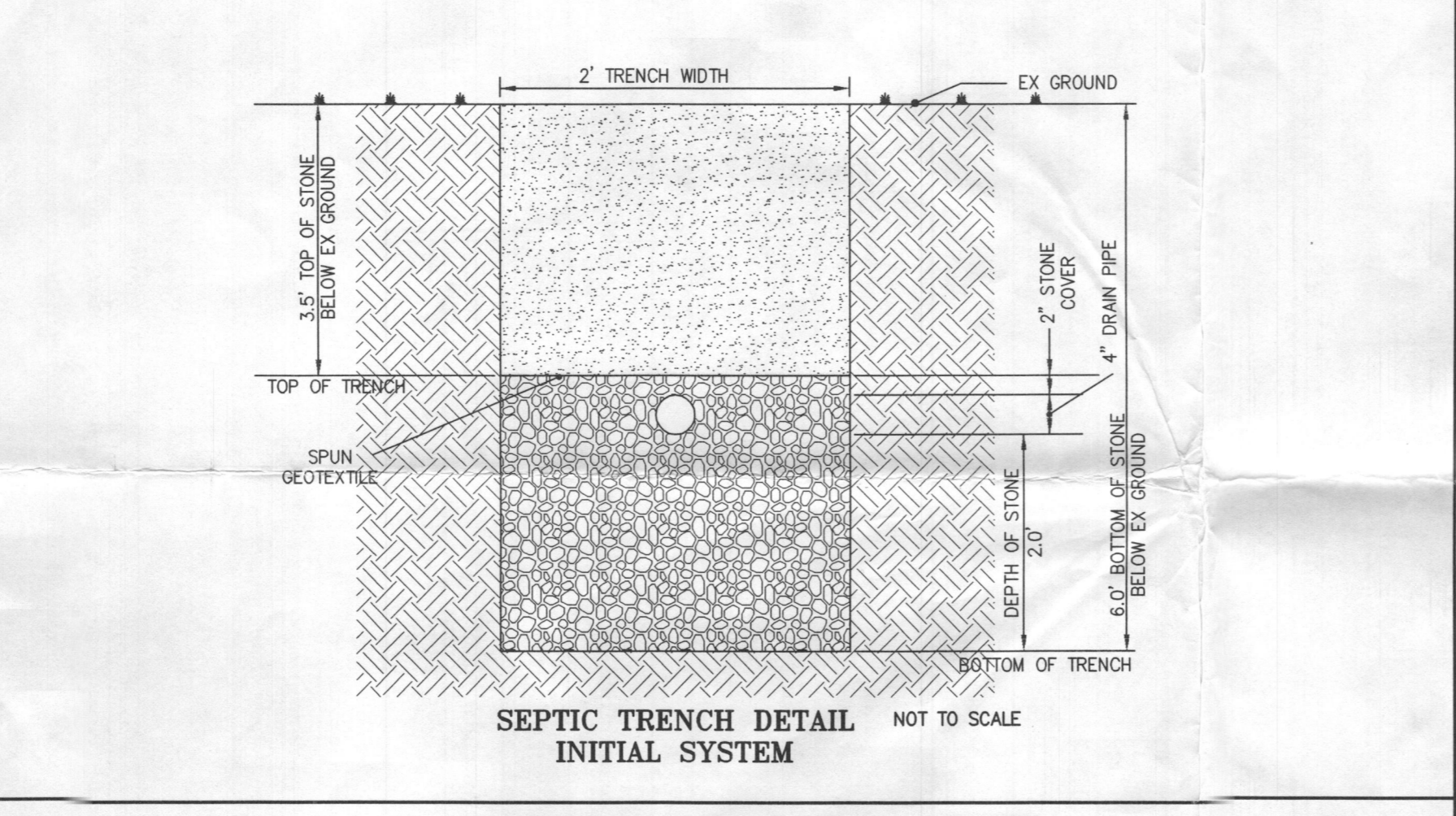
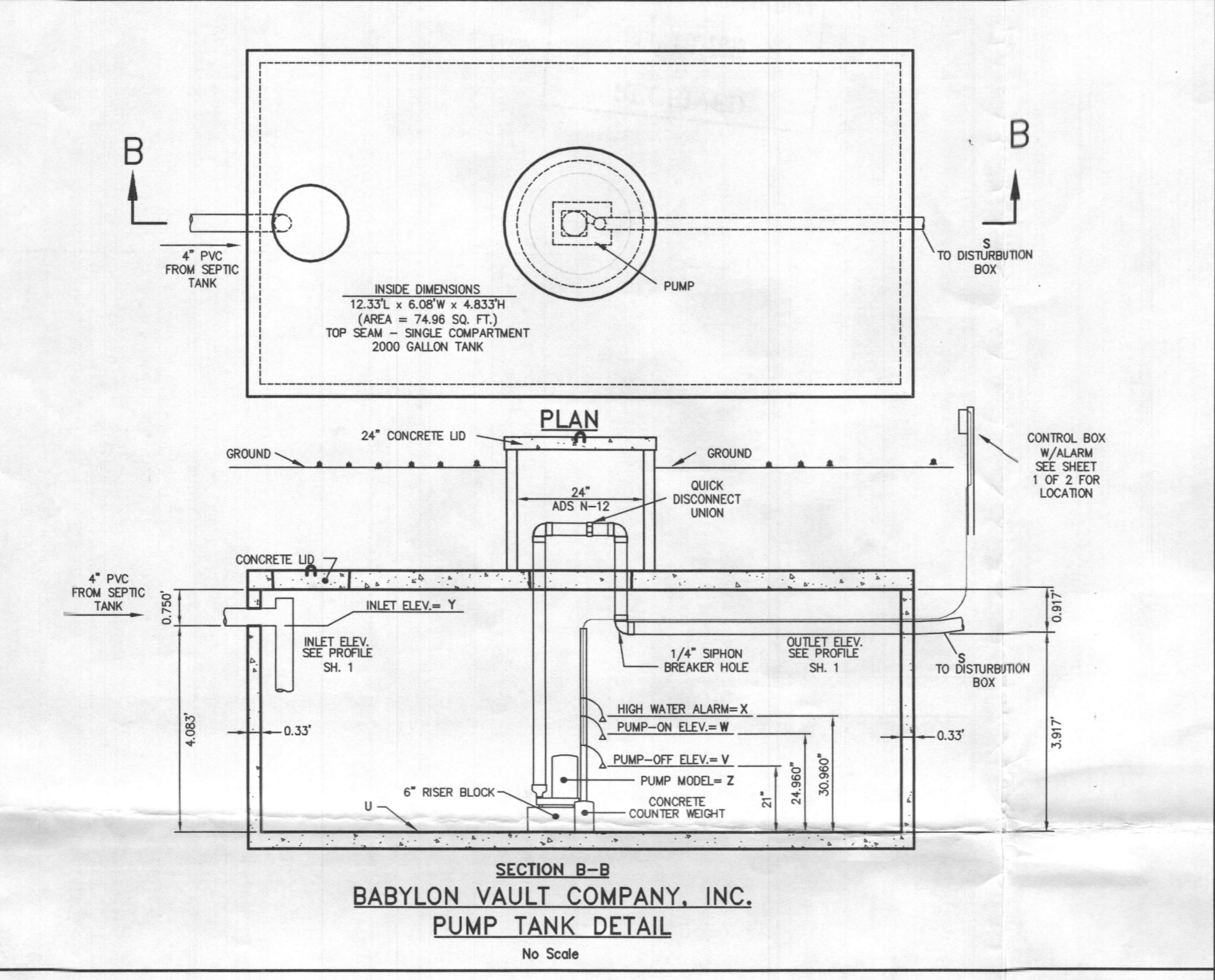
- Concrete strength $f'_c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- Cement - Portland Type III per ASTM C 150-92.
- Admixtures & plasticizers per ASTM C 266-95 & C 494-92.
- Reinforcing per ASTM A 618, Min. 1/2" cover.
- Top slab sealed with butyl rope mastic.
- 4" wall, base, & top thickness.
- Max 3-1/2" of cover.
- Depending on use of tank, inlet & outlet baffles may be required by code.

Mayer Bros., Inc. 6284 Race Road, Elkridge, Maryland 21075, Tel: 410.796.1434, Fax: 410.796.1438, www.mayerbrosprecast.com

1,500 GALLON TANK (Non-Traffic) 2-Compartment

Stock Item Dwg. No. 1500-2C No Scale Aug. 11, 2008

WEIGHT = 16,750 lbs.



INVERT CHART FOR TRENCHES

TRENCH NUMBER	BEGINNING EX. GRD. EL.	BEGINNING INV.	BEGINNING TRENCH BOT.	END EX. GRD. EL.	END INV.	END TRENCH BOT.
1	499.52	495.52	493.52	499.47	495.37	493.37
2	498.80	494.80	492.80	498.80	494.65	492.65
3	498.00	494.00	492.00	498.00	493.85	491.85

SEPTIC TANK DESIGN

NUMBER OF BEDROOMS	5.000
DESIGN FLOW = (150 GAL X NUMBER OF BEDROOMS)	750.000 GPD
MINIMUM SEPTIC TANK SIZE = (DESIGN FLOW X 1.5)	1125.000 Gal.
SEPTIC TANK SIZE	1500.000 Gal.

DISTANCE & ELEVATION DATA

INVERT ELEVATION DISTRIBUTION BOX	496.710 FL.
LENGTH OF FORCE MAIN BETWEEN TOP OF PUMP TO DISTRIBUTION BOX	344.592 FL.
INVERT ELEVATION IN OF PUMP TANK	477.560 FL.

FORCE MAIN PIPE SPECIFICATION

SCHEDULE 40 PVC	2.000 In.
INSIDE DIAMETER	2.067 In. (S)

DOSE VOLUME

LENGTH OF FORCE MAIN	344.592 FL.
VOLUME OF FORCE MAIN = $(\pi \times (D/2)^2 \times \text{LENGTH OF FORCE MAIN} \times 7.48 / \text{C.F.T.})$	60.068 Gal.
DOSE VOLUME = (FORCE MAIN + 1/6 DESIGN FLOW OR 100 GAL.)	165.068 Gal.
DOSE VOLUME IN C.F.T. = (DOSE VOLUME / 7.48)	24.740 Cu Ft.

PUMP TANK SIZING

PUMP TANK SIZING (AUTOMATIC SIZING CALCULATION IF BLANK)	Gal.
--	------

PUMP TANK DESIGN USING 2000 GALLON TANK

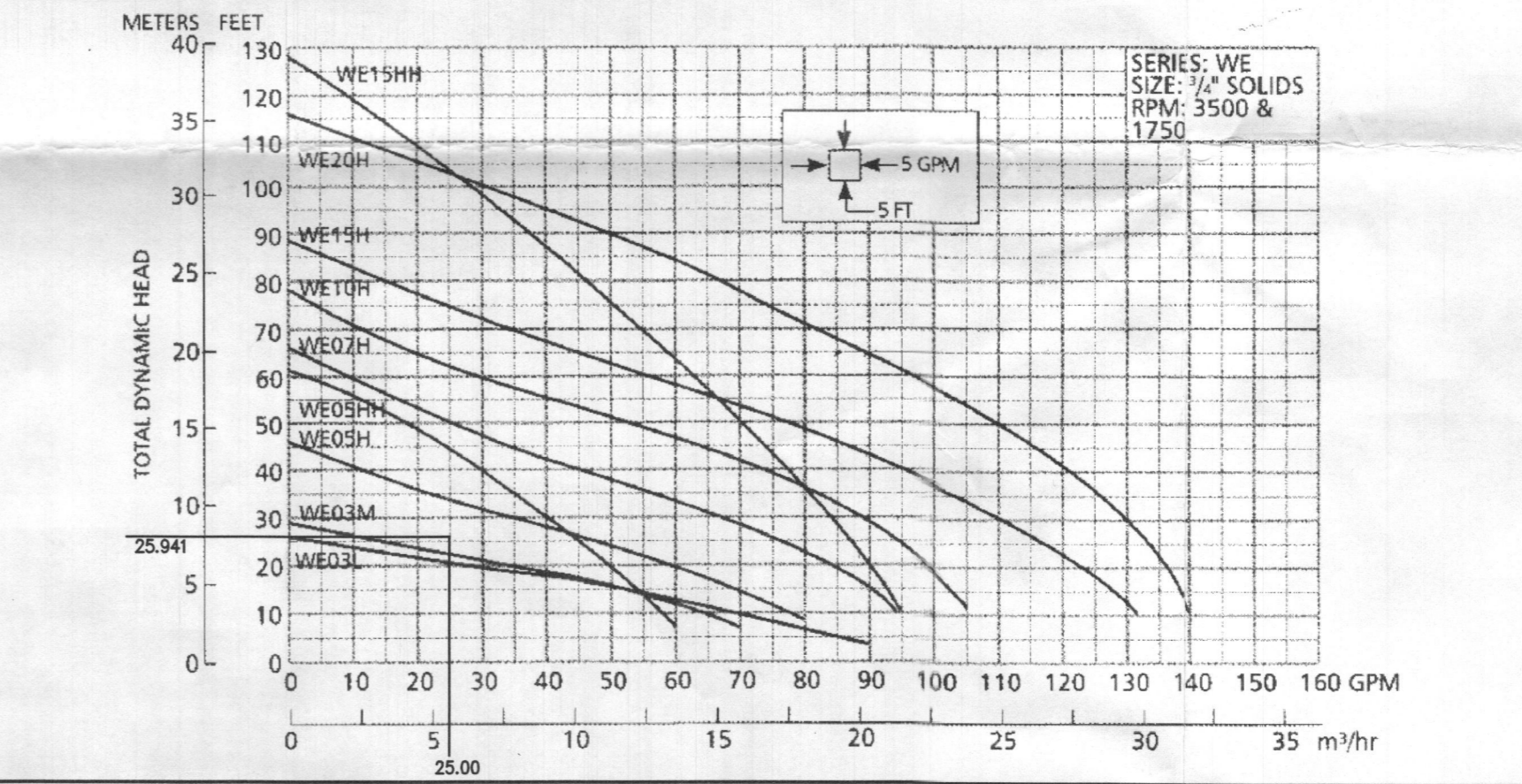
PUMP TANK DESIGN	
BOTTOM OF PUMP TANK ELEVATION	473.477 FL. (U)
6" RISER BLOCK ELEVATION	0.500 FL.
PUMP HEIGHT (FEET)	473.977 FL.
PUMP OFF ELEVATION	1.250 FL.
PUMP OFF ELEVATION	475.227 FL. (V)
DISTANCE BETWEEN PUMP ON & PUMP OFF ELEV. (DOSE / AREA OF PUMP TANK)	0.530 FL.
PUMP ON ELEVATION	475.557 FL. (W)
PER MDE PUMP ON TO HIGH WATER ALARM	0.500 FL.
HIGH WATER ALARM ELEVATION	476.057 FL. (X)
DIST. BETWEEN HIGH WATER ALARM & PUMP TANK INLET (DESIGN FLOW / 7.48 / AREA OF PUMP TANK)	1.336 FL.
DESIGN PUMP TANK INLET ELEVATION	477.393 FL.
ACTUAL PUMP TANK INLET ELEVATION > DESIGN PUMP TANK INLET ELEVATION	477.560 FL.

PUMP DESIGN

PEAK FLOWS	25.000 GPM.
LENGTH OF 2" FORCE MAIN	345.842 FL.
INCREASERS (@ 2.0 FT. EACH)	1 2.000 FL.
90 BEND (@ 7.0 FT. EACH)	4 28.000 FL.
60 BEND (@ 6.0 FT. EACH)	0 0.000 FL.
45 BEND (@ 4.0 FT. EACH)	0 0.000 FL.
30 BEND (@ 3.0 FT. EACH)	0 0.000 FL.
22 1/2 BEND (@ 2.0 FT. EACH)	0 0.000 FL.
15 BEND (@ 2.0 FT. EACH)	0 0.000 FL.
11 1/4 BEND (@ 1.0 FT. EACH)	0 0.000 FL.
TEE (@ 10 FT. EACH)	0 0.000 FL.
TOTAL LENGTH	399.842 FL.
FRICTION LOSS PER 100 FEET	1.115 FL.
PUMP OFF FLOAT ELEVATION	475.227 FL.
INVERT ELEVATION DISTRIBUTION BOX	496.710 FL.
HEAD LOSS	21.483 FL.
TOTAL FRICTION LOSS	4.458 FL.
DYNAMIC HEAD	25.941 FL.

Goulds Submersible Effluent Pump

Model	WE0512H (Z)
Phase	1.000
H.P.	1/2
Amp.	7.300
Volt	230.000
R.P.M.	3500.000



Onsite Sewage Disposal System Design Plan

Kang Property

13465 CHAROLAIS COURT HOWARD COUNTY, MARYLAND

OWNER
Baha Majid & Zainib Majid
5103 Spring Oaks Lane
Ellicott City MD 21043

MAP 34 BLOCK 15 PARCEL 74
Account Number 438888
ZONED RR-DEO COUNTY LAND RECORD 18248 PAGE 47
5TH ELECTION DISTRICT Exp. 2020-01-18

D.R.S. & ASSOCIATES
LAND DESIGN CONSULTANTS
52 WINTERS STREET WESTMINSTER, MARYLAND 21157
410-848-4060 410-876-6040 F. 410-848-8818

REV.No.	DATE	BY	DESCRIPTION	DATE: 2018-06-06
1	2018-06-17	DRS/jfs	PER HCHD 2018-07-26	SCALE: 1"=30'
2	2018-08-30	DRS/jfs	PER HCHD 2018-08-30	SHT.NO.: 2 OF 2
				DWG.: WS01-02

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KBE - 03328-97453 - WS01-02-Rev2.plt - 09-06-2018 - 08:39

I:\CAD\0328197453\WS01-02.DWG, Rev2, 2018-08-31, 3:32:54 PM, jfs

*Approved Septic System Plan
Howard County Health Department
1500 Gal Septic Tank
w/2000 Gal Pump Tank & Goulds WE0512H Pump
Signature
9/20/18
DJS
for 5-bedroom SFD
13465 Charolais Ct.*

LAYOUT _____ INSP 4 _____

INSP 2 _____ INSP 5 _____

INSP 3 _____ INSP 6 _____

ISSUE DATE: _____

P _____

APPROVAL DATE: _____

A 246967

PERMIT

TAX ID #

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

Legacy Contracting, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 1538 Manchester Rd, Westminster PHONE NUMBER: 410-840-8766

SUBDIVISION: Allnut Farms LOT NUMBER: Par 7A

ADDRESS: 13465 Charolais Court PROPERTY OWNER: George & Artemis Kallounis

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET Baffle FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): _____ COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 3

SQUARE FEET PER BEDROOM: _____

LINEAR FEET OF TRENCH REQUIRED: 200

TRENCHES:	Trench to be 2.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 3-5 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	Set Distribution Box at top (Northeast) Corner of easement. Install 2x100' trenches at top of easement.
NOTES:	These specs for initial system only. Stake easement corners. Call for layout inspection.

PLANS APPROVED: Robert Bricker

DATE: 9/14/07

NOTE: PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

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 FOR INSPECTION OF SEPTIC SYSTEM

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH _____ INLET _____ BOTTOM _____

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL _____

DISTRIBUTION BOX BAFFLE _____

DISTRIBUTION BOX PORT _____

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SEPTIC TANK 2 LEVEL _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

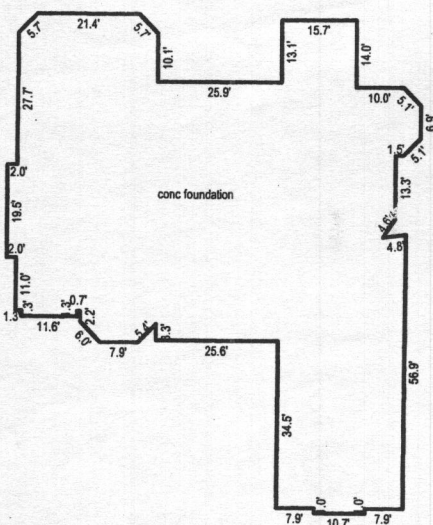
ROAD

PRE-CONSTRUCTION _____

INSTALLATION _____

FINAL INSPECTOR _____ DATE OF APPROVAL _____

Scale: 1"=40'



*wall check
ok
10/14/08 JJ*

Allnut Farm Estates Lot 44
Section 4
Plat 4621
S 79°20'55" E

*Proposal
Cancelled
Foundation
To Be Removed
(2018)*

Lot 45
Section 4
Plat 3890
S 79°29'10" E
10' BRL
Distribution Box
Grade Over 500.0'
Invert In 498.5'
Proposed Septic Easement
Trench Grade Over
Elevation 500 - 501
Invert 497 - 498
Ex. 20' Drainage And
Utility Easement
S13°00'00"E 40.00'
Recorded As Plat #3890
226.83'
R=25.00
A=6.78'
228.87'
N 16°25'51" W

Charlois Drive
R=50.00
A=218.63'

Stabilized
const
ent.
50' BRL
2 inch Schedule 40
Force Main
165'(+2)

5.194 Acres±
Top of Wall
Foundation
Elev =488.53

2000 Gallon Septic Tank
Grade Over Septic Tank 478.5
Invert In 474.8
Invert Out 474.5
Pump Chamber
Invert In 474.0
Invert Out 474.0

N 56°29'33" W

LOCATION DRAWING
Charlois Drive
Property of
George and Artemis Karvounis
RECORDED IN BOOK 10381 PAGE 0078
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

NOTES
1. All fence lines must be verified by a boundary survey.
2. A statement of minimum advice is an integral part of the plat and is detailed on the attached general notes.
3. The property shown hereon is not affected by the Flood Hazard Zone as shown on Flood Insurance Rate Map for Howard County, Maryland Panel No. 32 of 45, Community Panel No. 240044 0032 B as prepared by the National Flood Insurance Program, revision date December 4, 1986.

BPR INC
SURVEYORS - LAND PLANNERS
150 Airport Drive
Suite 4
Westminster, Maryland 21157
Phone: (410)-857-9030
(410)-876-0333
Fax: (410)876-1532
www.bprsurveying.com

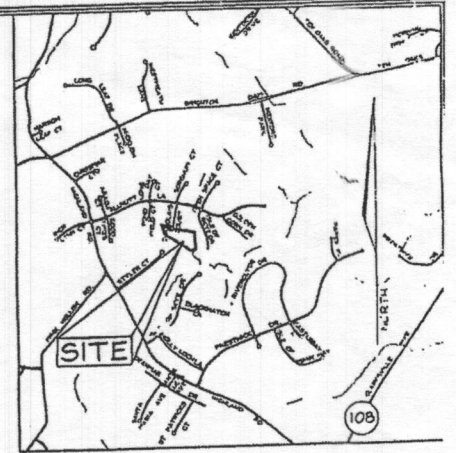
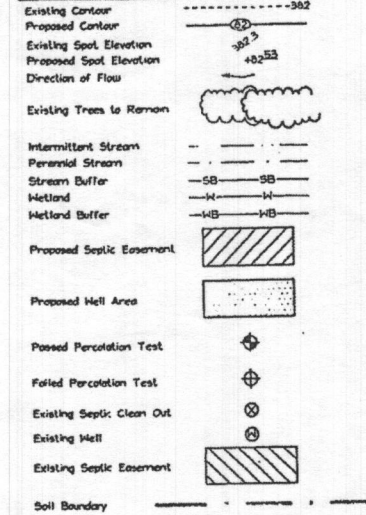
A licensed Maryland Surveyor either personally prepared the Location Drawing as shown hereon, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with chapter 09.13.06.12 of the Maryland Minimum Standards of Practice for Land Surveyors. Exact property corners have not been established or set. We assume no responsibility or liability for any rights-of-way or easements recorded or unrecorded, not appearing on the record plat and/or mentioned in the title deed referred to hereon.
Signed this 22 day of September 2008
Surveyor's Signature *[Signature]*
Date: September 22, 2008
BPR Job No. 07-127-003
Scale: 1 inch = 60 feet
Also known as # 13465 Charlois Drive



Z:\Land Projects 3107-127-000 - Charlois Drive - Legacy Contracting\dwg\location - Charlois Drive.dwg, location foundation, 9/29/2008 1:01:52 PM, 1:1, AJD

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Bare silt loam	B
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ElC2	Elkton silt loam, 8 to 15 percent slopes, moderately eroded	B
G1B2	Glenview loam, 3 to 8 percent slopes, moderately eroded	B
G2B2	Glenview silt loam, 3 to 8 percent slopes, moderately eroded	C
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MgC3	Manor gravelly loam, 8 to 15 percent slopes, severely eroded	B
MIA	Manor loam, 0 to 3 percent slopes	B

LEGEND

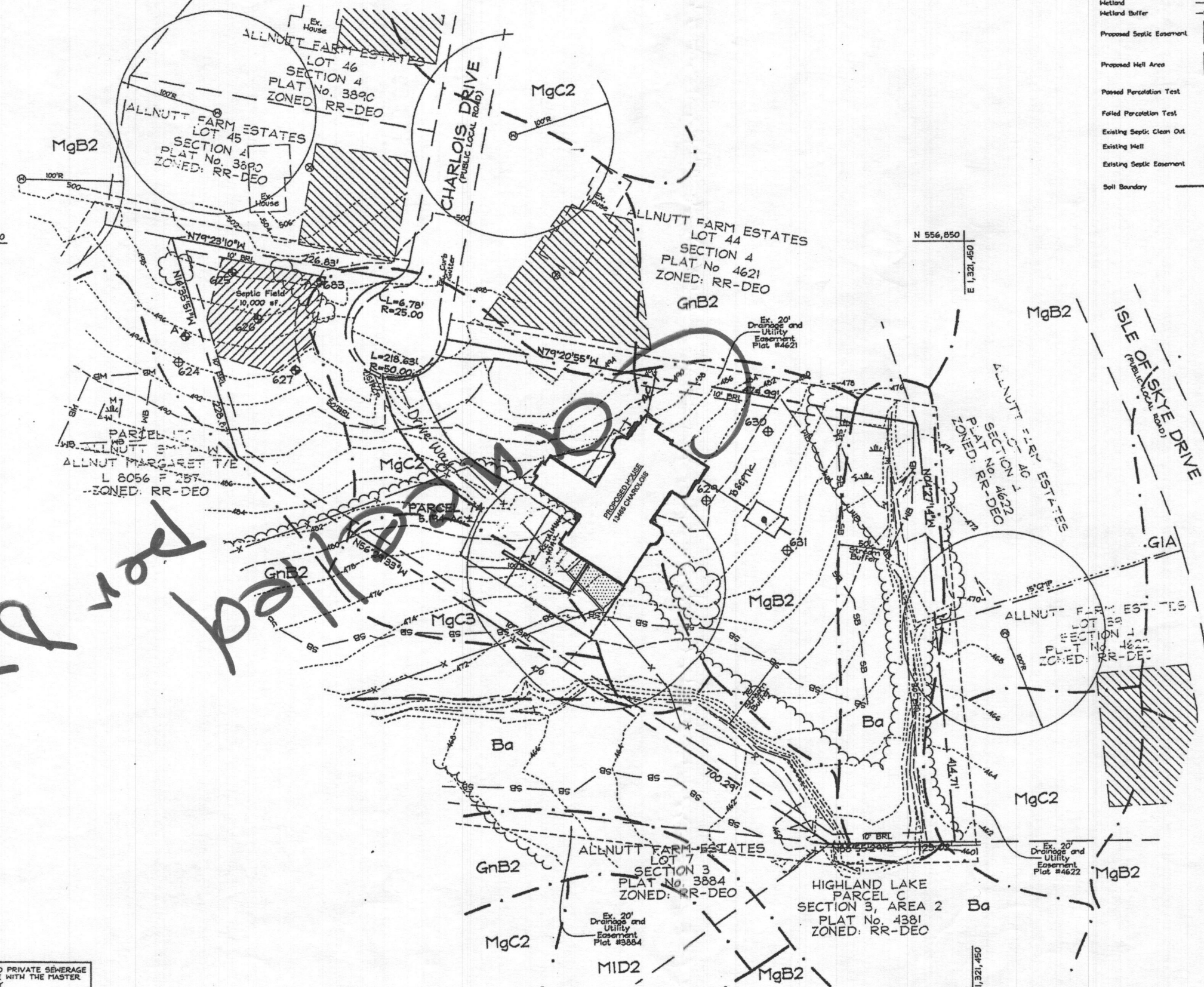


GENERAL NOTES

1. Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan
2. Reference: Liber 8056 Folio 243
3. The topography shown hereon is based on a field run topographic survey performed by FSH Associates, Inc. in August 2004. The project boundary is based on a field run boundary survey performed by FSH Associates, Inc. in August 2004.
4. Contractor to confirm all dimensions, utilities and topography in the field. If any conflicts arise, contact Engineer before beginning any work.
5. Private water and sewer will be used within this site.
6. [Hatched Area] This area designates a private sewage reserve area, of at least 10,000 SF, as required by the Maryland State Department of the Environment for individual septic disposal (COMAR 26.04.05). Improvements of any nature in this area are restricted until public sewerage is available. These reserve areas 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 sewage reserve area.
7. Recordation of a modified sewage reserve area shall not be necessary.
8. All wells and septic fields within 100' of property's boundary have been shown.
9. Howard County Soil Map #23
10. Septic fields are located on soil type MgB2 and MgC2, as per the soil survey of Howard County.
11. Total Area of Site = 5.94 ac ±
12. Dead History: March, 1951-Present: Smith M. Allnut and Margaret Helen Allnut
13. Existing official septic fields shown are taken from available record plats and may not be the final location as approved by the Health Officer.

Number	Elevation
624	495.01
624	494.04
625	498.85
626	497.68
627	493.33
629	490.52
630	476.73
631	474.28
632	500.01

Handwritten note: 1719 not bolted for 1719



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Robert A. Weber 9/16/05
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

OWNER
SMITH M. ALLNUTT
MARGARET HELEN ALLNUTT
13265 East Highland Road
Highland, MD 20777

DEVELOPER
STEVE ALLNUTT
8015 Centre Park Drive, Suite
Columbia, MD 21043
410 423 9270

PERCOLATION CERTIFICATION PLAN

ALLNUTT PROPERTY
13465 CHARLOIS DR. HIGHLAND MD 20777

TAX MAP 34 GRID 15 2077 5TH ELECTION DISTRICT

DESIGN BY: FSH Associates
DRAWN BY: FSH Associates
CHECKED BY: FSH Associates
SCALE: AS SHOWN
DATE: Sep 16, 2005
H.C. No. 32
SHEET No. 1

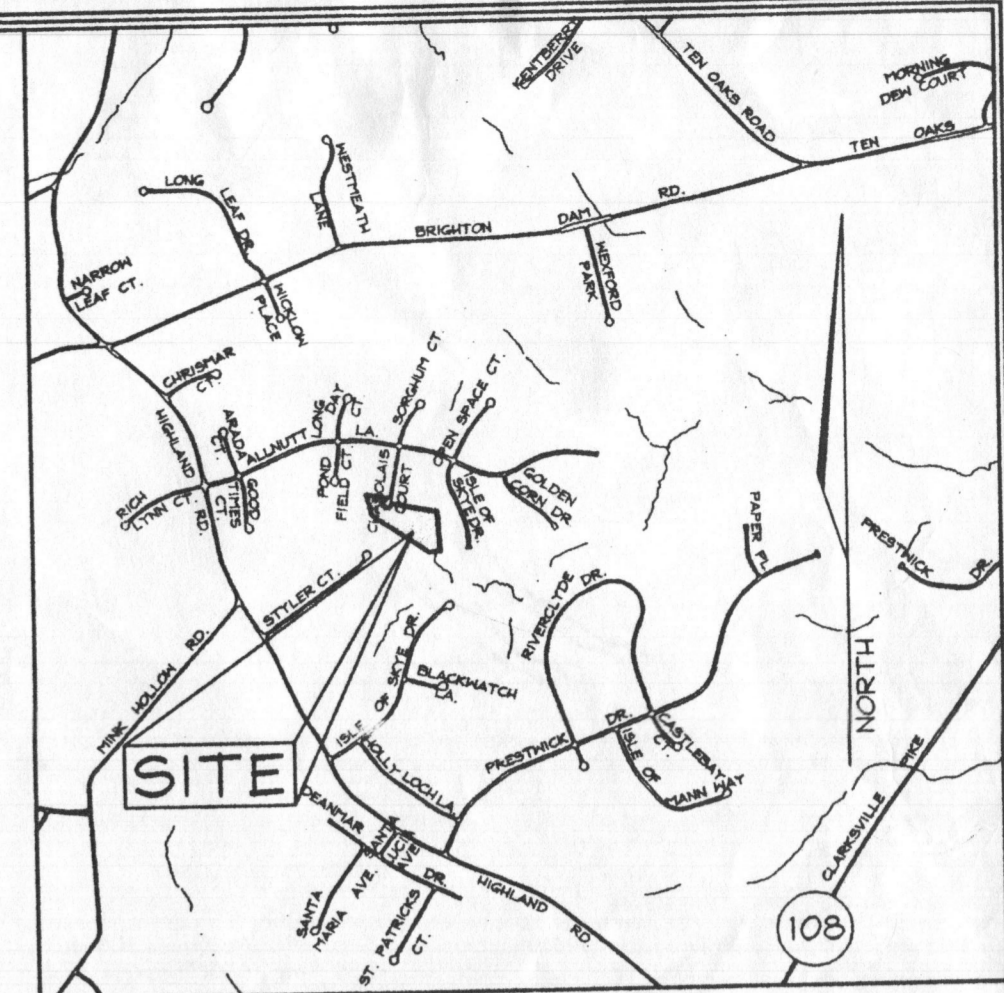
FSH Associates
Engineers Planners Surveyors
8318 Forest Street, Elkton City, MD 21043
Tel: 410-750-2251 Fax: 410-750-7350
Email: info@fsa.biz

410 567 5200

Builder: Mark Stevens 301 421 1700
Architect: Jack Fisch

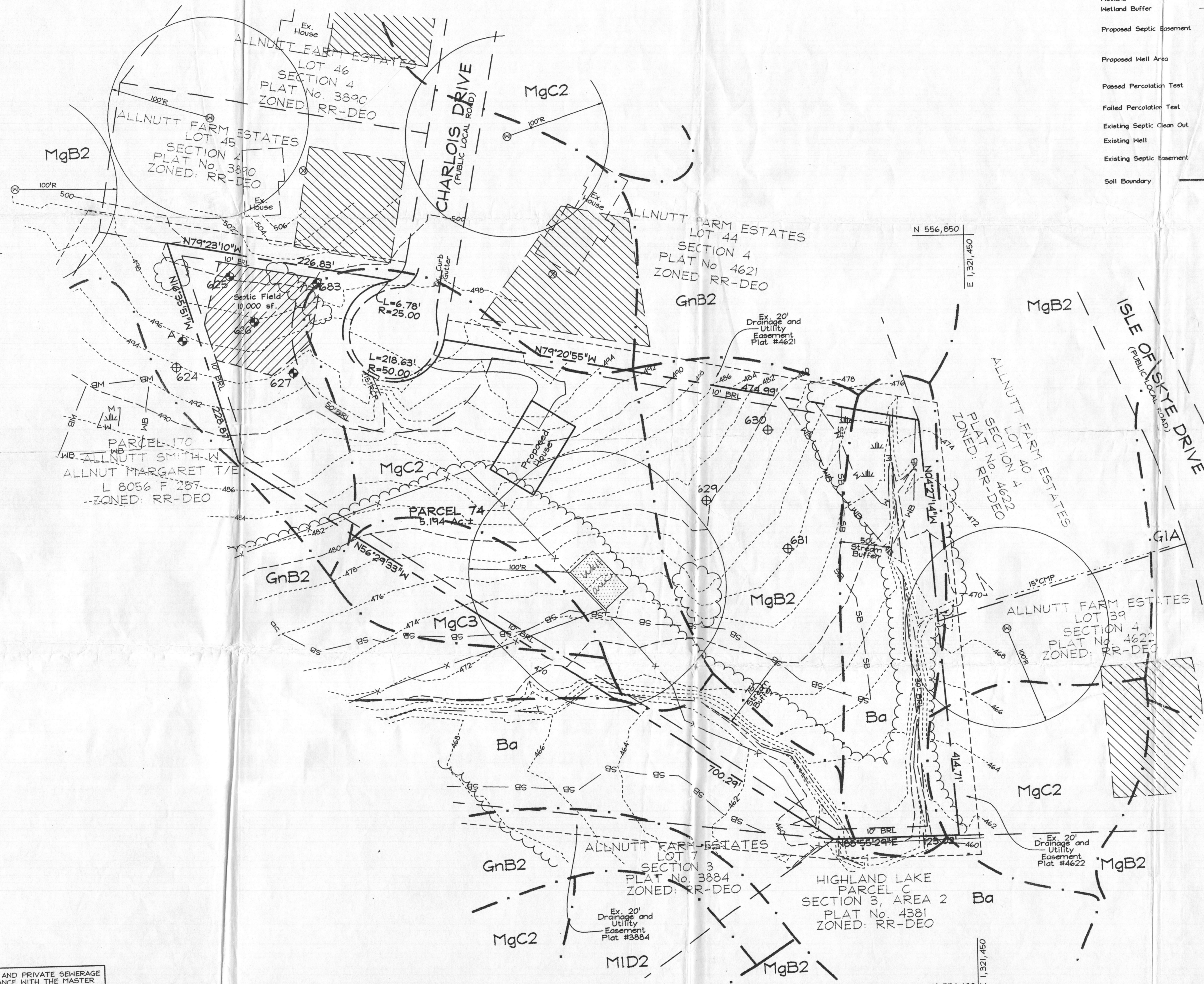
SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ex	Boile silt loam	D
GaB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elk oak silt loam, 8 to 15 percent slopes, moderately eroded	B
GIB2	Glenelig loam, 3 to 8 percent slopes, moderately eroded	C
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	B
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MgC3	Manor gravelly loam, 8 to 15 percent slopes, severely eroded	B
MIA	Manor loam, 0 to 3 percent slopes	B

LEGEND	
Existing Contour	---
Proposed Contour	---
Existing Spot Elevation	⊕
Proposed Spot Elevation	⊕
Direction of Flow	→
Existing Trees to Remain	☁
Intermittent Stream	---
Perennial Stream	---
Stream Buffer	SB
Wetland	W
Wetland Buffer	WB
Proposed Septic Easement	▨
Proposed Well Area	▨
Passed Percolation Test	⊕
Failed Percolation Test	⊕
Existing Septic Clean Out	⊕
Existing Well	⊕
Existing Septic Easement	▨
Soil Boundary	---



- GENERAL NOTES**
- Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan.
 - Reference: Liber 8056 Folio 243
 - The topography shown hereon is based on a field run topographic survey performed by FSH Associates, Inc. in August 2004. The project boundary is based on a field run boundary survey performed by FSH Associates, Inc. in August 2004.
 - Contractor to confirm all dimension, utilities and topography in the field. If any conflicts arise, contact Engineer before beginning any work.
 - Private water and sewer will be used within this site.
 - This area designates a private sewage reserve area, of at least 10,000 SF, as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26-04.03). Improvements of any nature in this area are restricted until public sewerage is available. These reserve areas 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 sewage reserve area. Recordation of a modified sewage reserve area shall not be necessary.
 - All wells and septic fields within 100' of property's boundary have been shown.
 - Howard County Soil Map #23
 - Septic fields are located on soil type MgB2 and MgC2 as per the soil survey of Howard County.
 - Total Area of Site = 5.194 ac.±
 - Deed History: March, 1951-Present: Smith W. Allnutt and Margaret Helen Allnutt
 - Existing offsite septic fields shown are taken from available record plats and may not be the final location as approved by the Ho.Co. H.D.

PERC. CHART	
Number	Elevation
A	495.81
624	494.04
625	493.83
626	497.65
627	493.33
629	480.52
630	478.73
631	474.26
633	500.01



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Robert J. Weber
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

9/15/05 DATE
KSB 100

OWNER
SMITH W. ALLNUTT
MARGARET HELEN ALLNUTT
13288 East Highland Road
Highland, MD 20777

DEVELOPER
STEVE ALLNUTT
8815 Centre Park Drive, Suite 110
Columbia, MD 21045
410.423.5228

PERCOLATION CERTIFICATION PLAN
ALLNUTT PROPERTY

TAX MAP 34 GRID 15
5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

PARCEL 74

FSH Associates
Engineers Planners Surveyors
8318 Forrest Street Ellicott City, MD 21043
Tel: 410-750-2251 Fax: 410-750-7350
E-mail: info@fshta.biz

DESIGN BY: PS
DRAWN BY: HK
CHECKED BY: ZYF
SCALE: 1"=50'
DATE: Sept. 01, 2005
W.O. No.: 3220
SHEET No.: 1 OF 1

410 567 5200

builder Mark Stevens 301 421 1700 ZACH FISCH