

Bureau of Environmental Health  
 7178 Gateway Drive Columbia, MD 21046  
 (410) 313-2640 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.hchealth.org

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

RECEIPT DATE: 10-17-14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 555275

**PERMIT  
CONSTRUCTION**

INSTALLATION APPROVAL DATE: \_\_\_\_\_ A \_\_\_\_\_

PROPERTY ADDRESS: 13006 High Grove Road

SUBDIVISION: Schooley Mill Farm LOT: 11 TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe EMAIL: ken@skbackhoe.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road PHONE: 410-596-3618

PROPERTY OWNER: NVR Inc. EMAIL: \_\_\_\_\_

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046 PHONE: 410-379-5956

BAT UNIT MODEL: Hoot 600 BNR BAT UNIT SIZE: 750 GPD

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ PUMP SIZE: \_\_\_\_\_

NUMBER OF BEDROOMS: 5 HOUSE SQ. FT. \_\_\_\_\_ APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 155'</u>	INLET DEPTH: <u>SEE BAT PLAN 5'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 3'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 7'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 5'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit per plan. <u>3x52' Trenches</u>	

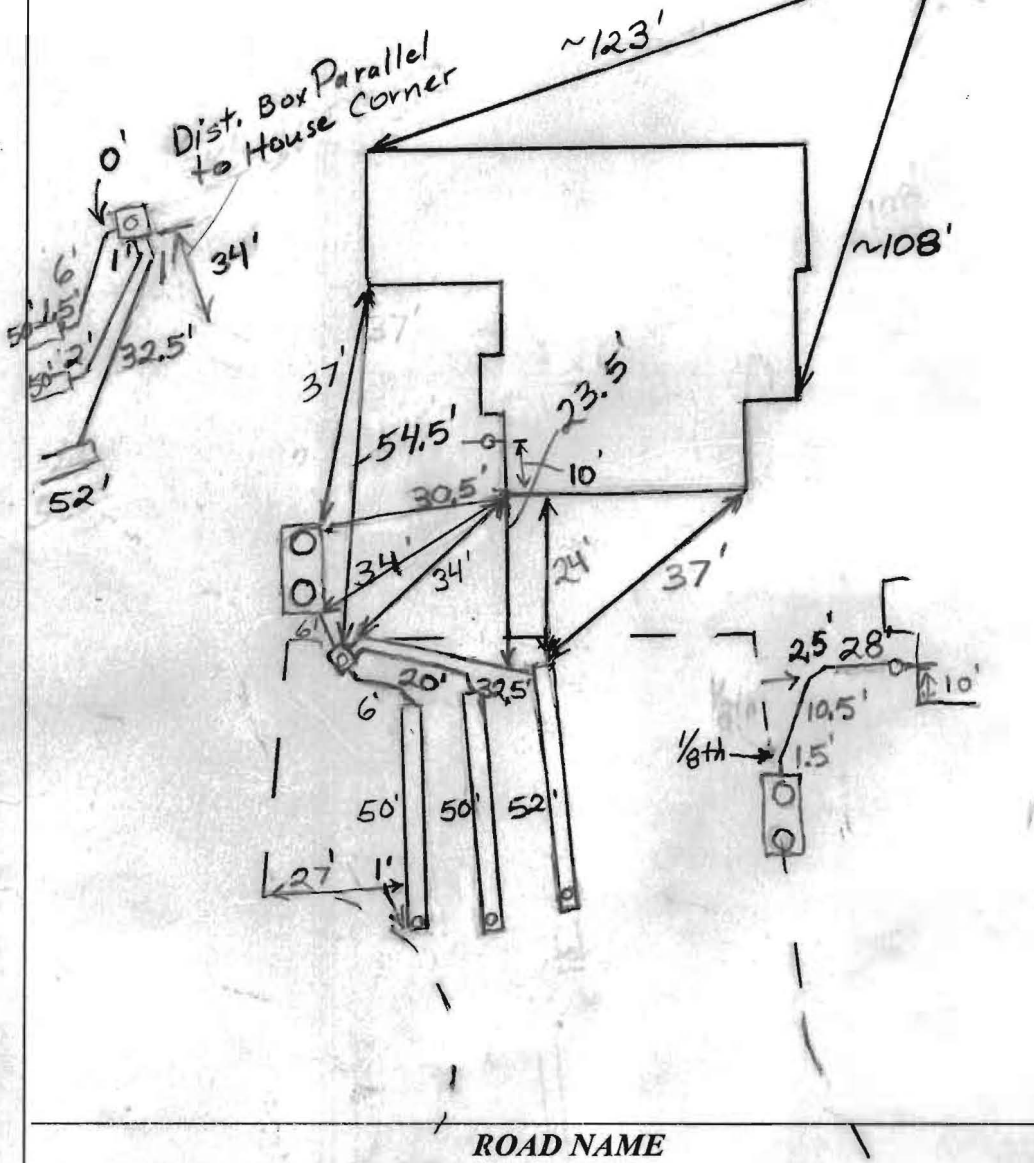
ISSUED BY: Jeff Williams ISSUE DATE: 10/31/14 EXPIRATION DATE: 10-17-15

- 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 SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE 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

**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-95-2446

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4.5'-5'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		152'
ABSORPTION AREA		456+Sidewalk
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Elbow
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Mayer Bros Hoot
CAPACITY	~2,100 GAL
SEAM LOC	Top
TANK LID DEPTH	1'2"
BAFFLES	Front
BAFFLE FILTER	N/A
MANHOLE LOC	Front+Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SLOTTED	N/A
DATE ON LID	Dry
<del>PUMP/SEPTIC TANK LEVEL N/A</del>	
MANUFACTURER	
CAPACITY	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

11/8/2014 Install three 52' trenches on contour similar to plan. Set tank according to plan (BB)

INSTALLATION:

11/14/2014 System completed except for connection from house to tank. Need BAT approval from manufacturer representative. (BB)

11/21/2014 System finished except for start-up. Need BAT approval from Hoot representative. (BB)

FINAL INSPECTOR \_\_\_\_\_

DATE OF APPROVAL \_\_\_\_\_



**MAYER BROS., INC.**  
*Precast Concrete Products*  
6264 Race Rd. Elkridge, MD 21075

## Letter of Satisfaction Hoot System Installation

Address of Property: 13006 Highgrove Rd.  
Highland, MD 20777 Lot #11

Date of Final Inspection: 12/5/14

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

Name of Inspector  
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

**WBE**  
**NPCA Certified Plant**

mayerbro@connext.net  
www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,  
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,  
Scapewell Window Wells, Custom Precast Products

# Fogle's Septic Clean Inc.

Fogle's Portable Toilets • Fogle's Well Drilling LLC • Fogle's Excavating, LLC



December 13<sup>th</sup> , 2012

Howard Co Dept of Environmental Health  
7178 Columbia Gateway Dr  
Columbia, Md 21046

To Whom it may concern,

On December the 12<sup>th</sup> 2012 Fogle's Septic Clean Inc, has abandoned 3 septic systems located at Schooley Mill Farm for Goodier Baker Homes and Development.

Future lot #1: 12835 Hall Shop Rd, Highland

Future lot #7: 12883A Hall Shop Rd, Highland

Future lot #11: 12883B Hall Shop Rd, Highland

If you have any questions please call me at the office 410-795-5670.

Sincerely,

A handwritten signature in cursive script that reads "Kurt Cassell".

Kurt Cassell  
Fogle's Septic Clean, Inc.

# Transmittal

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>8930 Stanford Blvd.</b> <b>Columbia, Maryland 21046-4544</b>	Attn: <b>Jeff Williams</b> Fax: Phone: <b>410-313-6287</b>
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From: <b>Dave Harward</b>	CC:
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Re: <b>Schooley Mill Farm, Preserv. Lot 11</b>	W.O.# <b>05037-6001</b>
Date: <b>Aug. 25, 2014</b>	Pages: <b>Page(s) Including this cover</b>

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input checked="" type="checkbox"/> For Review & Comment
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Remarks:

Re: Lot 11, 13006 Highgrove Rd

Dana: Here's the 2 BAT Site Installation Site Plans, for your review & approval. The plan has been revised for a 6 bedroom house. NV Home's home buyer start date keeps getting pushed back, so they would greatly appreciate you reviewing this as soon as possible. If you could squeeze this in somehow today it sure would be appreciated.

Thanks for your help as always,

Dave Harward

Fisher, Collins, & Carter Inc.

daveh@fcc-eng.com

## **CONFIDENTIALITY NOTICE**

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

## Williams, Jeffrey

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**From:** Williams, Jeffrey  
**Sent:** Thursday, September 18, 2014 9:53 AM  
**To:** 'Dave Harward, III'  
**Cc:** Oswald, Hank  
**Subject:** RE: Schooley Mill: Lot 3 BAT Plan

Hank is the one reviewing the building permit. He is new to our program, so I have been reviewing BAT plans/ training him on BAT review.

I looked at lot 3 and went back to see what I approved on the lot 11 revision. I made a concession on lot 11 and also missed something that has since come to my attention. The concession was that there is no note stating "the manufacturer has certified the proposed BAT unit is capable of handling the flow for the proposed 6 bedroom house."

The missed item is that the Hoot unit was deemed in compliance with the emergency storage requirements of our local code and COMAR by calculating the capacity above the high water probe in the 3<sup>rd</sup> chamber and also the air space above the liquid level in the whole tank up to the lid. That total space is 790 gallons, which is adequate for up to 5 bedrooms. A 6 bedroom home has a design flow of 900 gallons. A pumped system for a 6 bedroom home must provide 900 gallons of emergency storage above the high water alarm within the tank.

We have approved the building permits for these lots, but before we can issue the septic permits, we will need a revised plan showing a new tank design that can accommodate 900 gallons of emergency storage. Thanks  
Jeff

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**From:** Dave Harward, III [mailto:DaveH@fcc-eng.com]  
**Sent:** Tuesday, September 16, 2014 12:26 PM  
**To:** Williams, Jeffrey  
**Cc:** Hanauer, Brent; Faris, Taylor  
**Subject:** Schooley Mill: Lot 3 BAT Plan

Jeff,

Attached are the architectural plans for the Remington Place II, which is the house being built on Lot 3. This Lot has the same house that Lot 11 is having built. I've also attached the email you sent me on 8/6 stating that the BAT plan was approved for Lot 3. However, since Lot 11 had been determined that the home office in the basement has to be regarded as a bedroom, we revised the plan to reflect a septic design for 6 bedrooms. Please review as soon as possible. Per your conversation with Tony today, you had said Hank was looking for architectural plans for Schooley Mill lot 3. I believe you were reviewing that lot, not Hank. Hank had asked for architectural plans for Warfields Lot 1, which NV sent to him yesterday. Anyway, attached are a full set of architectural plans for this lot. If you need anything additional, or have any questions, please contact Brent Hanauer or Taylor Faris (they are being copied with this email, so you now have their email).

I'm going to be on a short vacation starting this afternoon. I'll return on Monday. We are hoping you can get this approved for NV, they have been patiently waiting for quite awhile now.  
Thanks Jeff,

Dave Harward  
Fisher, Collins, & Carter, Inc.  
Centennial Square Office Park  
10272 Baltimore National Pike  
Ellicott City, Maryland 21042



Office of the Health Officer  
8930 Stanford Blvd., Columbia, MD 21045  
Main: 410-313-6300 | Fax: 410-313-6303  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

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

TO: Fisher, Collins and Carter, Inc.  
C/O Aldo Vitucci Via e-mail: [amv@fcc-eng.com](mailto:amv@fcc-eng.com)  
and  
Jim Kerwin, Decatur Building Services  
Via e-mail: [JIM@DECATURBUILDINGSERVICES.COM](mailto:JIM@DECATURBUILDINGSERVICES.COM)

FROM: Dana Bernard, R.E.H.S./L.E.H.S.  
Well and Septic Program

RE: 13006 Highgrove Road  
BAT Plan and Building Plan

DATE: July 31, 2014

The following comments apply to the plan prepared by Fisher, Collins and Carter, Inc. Applicant is advised to revise and resubmit.

#### BAT Plan

- Show the location of the initial absorption system and 2 replacements with perforated pipe elevations. All trenches should be equal in length and on contour. When redesigning your trenches try your inlet at 3 and 5 for your bottom, with your trenches 3 feet wide. The result will be a smaller trench length and less stone needed for your septic system design. And will result in a cost savings for the customer and have more room for your initial system and 2 replacements.
- I have included a copy of the BAT site plan requirements to use for your revisions. And a copy of the septic spec worksheet.

#### Building Site Plan

- Your building site plan must show the location of the initial absorption system and 2 replacements with perforated pipe elevations. All trenches should be equal in length.

#### Building Application

- Your building application does not state the number of bedrooms. You can give DPZ a call to have this information changed in the computer system.
- Floor plans for the house must be submitted.

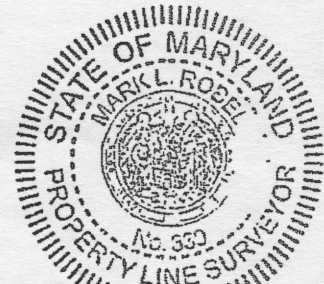
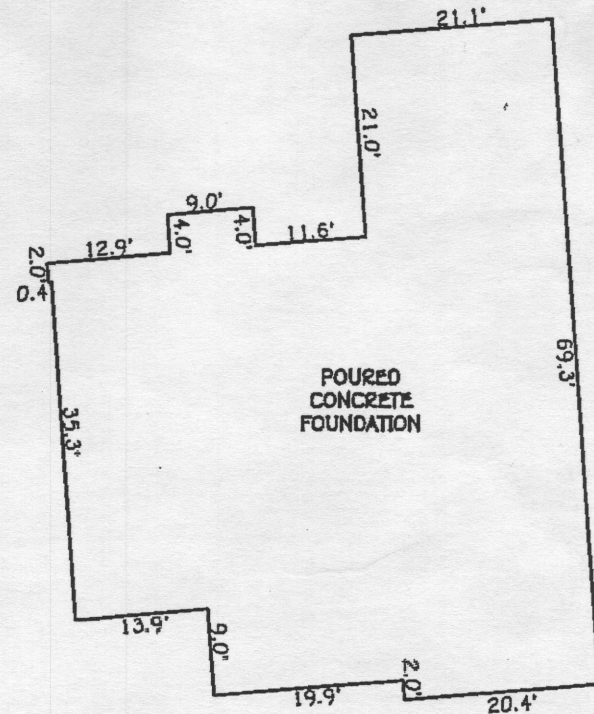
If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Sincerely,

Dana Bernard, R.E.H.S./L.E.H.S  
Well and Septic Program  
Phone (410) 313-2775E-mail:  
[DBernard@howardcountymd.gov](mailto:DBernard@howardcountymd.gov)

**GENERAL NOTES:**

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INSOFAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C01400 EFFECTIVE NOV. 6, 2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-2446 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2014.
- 7) BUILDING PERMIT # (B-14002434)



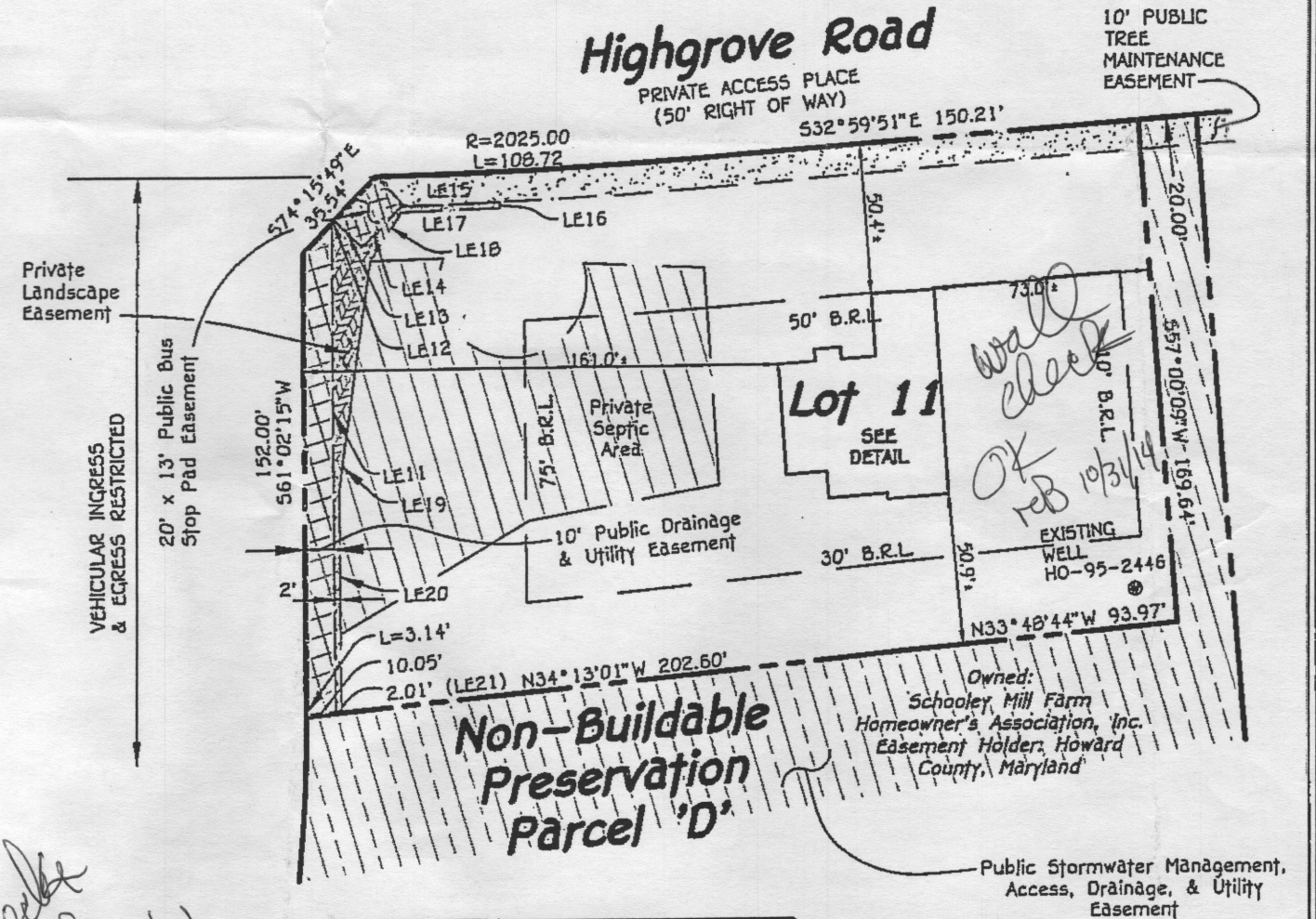
*Mark L. Robel*  
 PROPERTY LINE SURVEYOR  
 REG. #339  
 10/22/14  
 DATE

**HOUSE LOCATION DRAWING**

FOUNDATION LOCATION: 9/10/14  
 FINAL LOCATION: \_\_\_\_\_  
 BOUNDARY SURVEY: \_\_\_\_\_

SCALE: 1"=60'  
 DATE: 9/11/14  
 DRAWN BY: GAO  
 CHECKED BY: MLE  
 PROJECT No.: 05037-6001

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2855



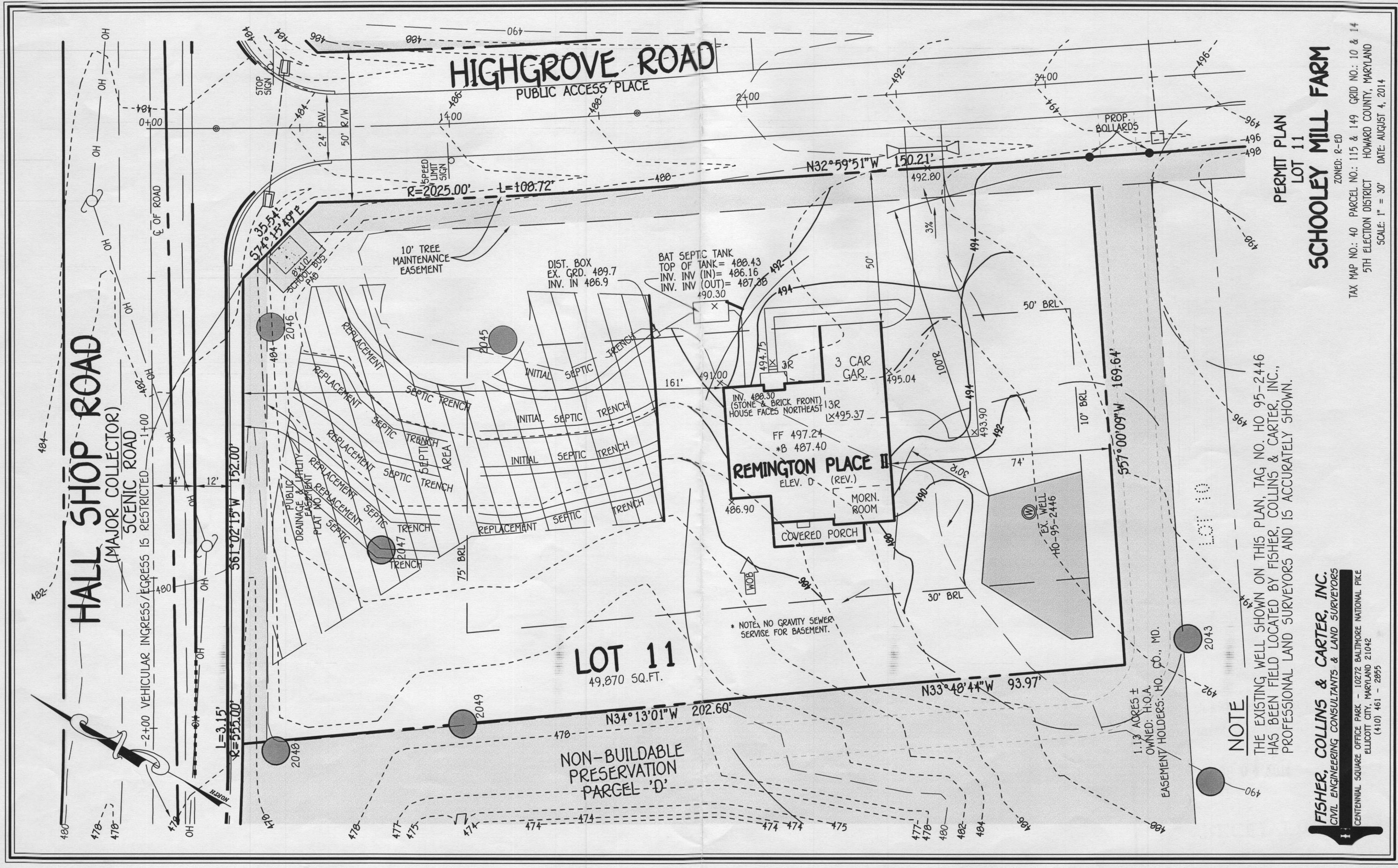
*wall check  
 'OK' reB  
 10/31/14*

**Private Landscape Easement Line Chart**

Sym	Bearing & Distance
LE1	N 61°02'15" E 275.58'
LE2	R=1470.00' L=240.64'
LE3	S 20°12'20" E 2.00'
LE4	R=1468.00' L=240.33'
LE5	S 61°02'15" W 236.16'
LE6	S 27°41'45" W 62.16'
LE7	R=1963.00' L=27.60'
LE8	S 58°55'01" W 2.00'
LE9	R=1965.00' L=48.80'
LE10	N 15°43'33" E 21.15'
LE11	N 61°02'15" E 164.33'
LE12	S 74°15'49" E 1.33'
LE13	S 15°44'11" W 13.00'
LE14	S 74°15'49" E 19.02'
LE15	R=2035.00' L=33.53'
LE16	S 58°53'55" W 2.00'
LE17	R=2037.00' L=33.55'
LE18	N 85°36'25" W 19.41'
LE19	S 69°07'20" W 77.64'
LE20	S 61°02'15" W 74.38'
LE21	N 34°13'01" W 2.01'

LOT 11  
 SCHOOLEY MILL FARM  
 LOTS 1 THRU 11,  
 BUILDABLE PRESERVATION  
 PARCEL 'A' & NON-BUILDABLE  
 PRESERVATION PARCELS 'B'  
 THRU 'D'  
 PLAT NOS. 22506 THRU 22507  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

#13006 HIGHGROVE ROAD  
 TOP OF FOUNDATION ELEVATION = 495.3'±



**NOTE**

THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HO 95-2446 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

**FISHER, COLLINS & CARTER, INC.**

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461 - 2855

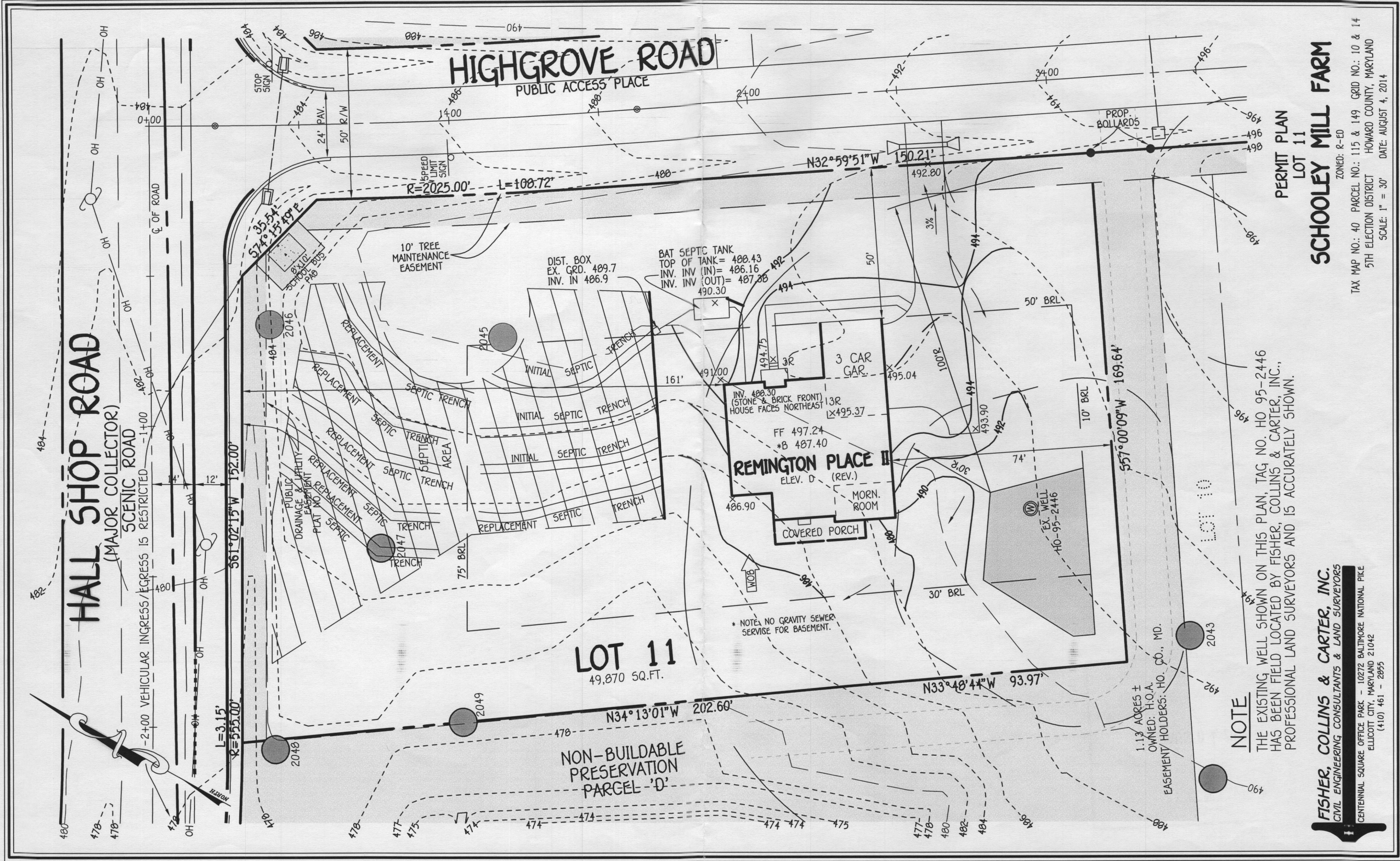
**PERMIT PLAN  
LOT 11  
SCHOOLEY MILL FARM**

ZONED: R-ED

TAX MAP NO.: 40 PARCEL NO.: 115 & 149 GRID NO.: 10 & 14

5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' DATE: AUGUST 4, 2014



**HALL SHOP ROAD**  
 (MAJOR COLLECTOR)  
 SCENIC ROAD  
 -2+00 VEHICULAR INGRESS/EGRESS IS RESTRICTED -1+00

**HIGHGROVE ROAD**  
 PUBLIC ACCESS PLACE

**LOT 11**  
 49,870 SQ. FT.

**REMINGTON PLACE II**  
 (REV.)  
 13R  
 HOUSE FACES NORTHEAST  
 FF 497.24  
 \*B 487.40

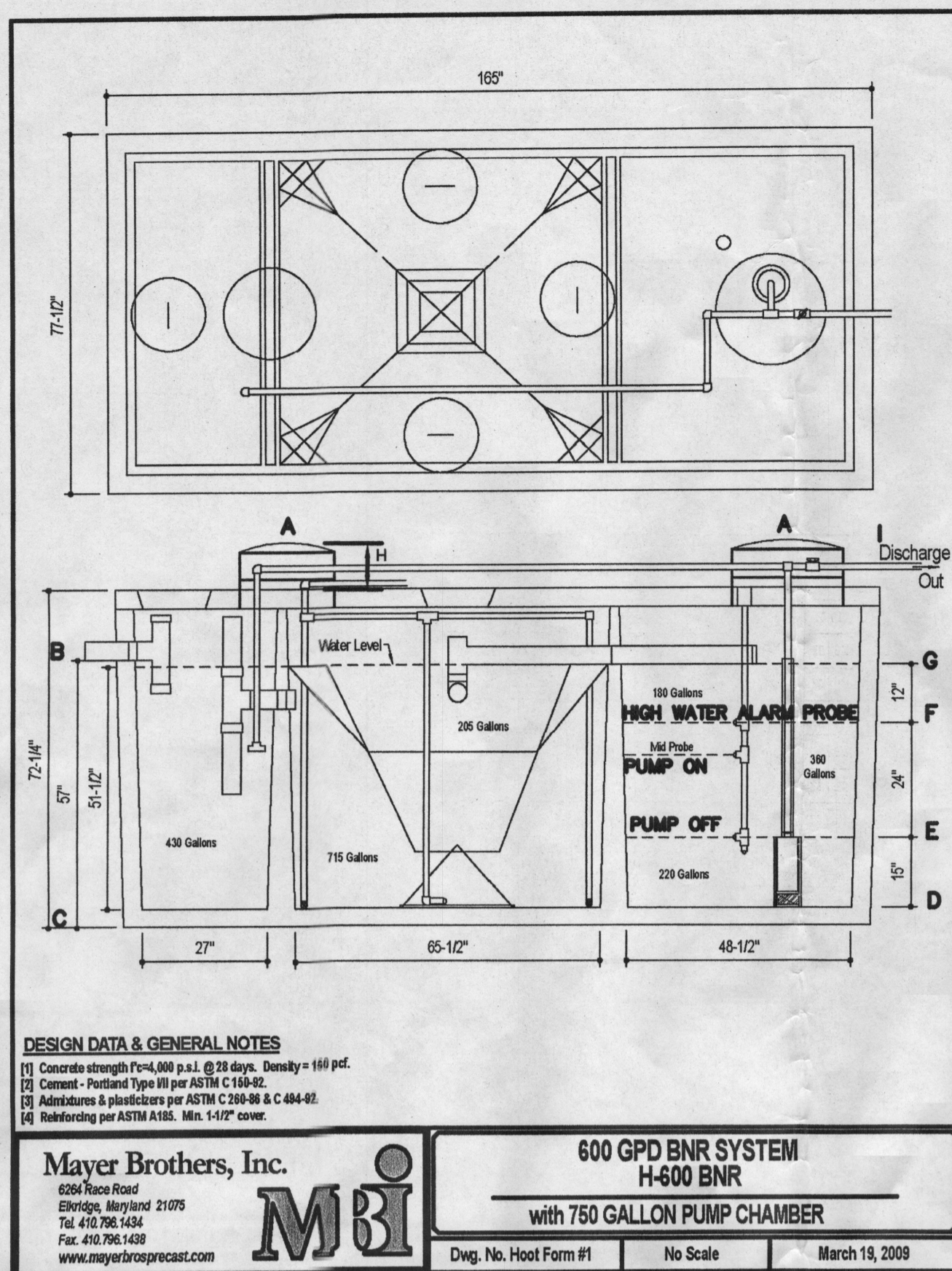
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**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2955

**PERMIT PLAN**  
**LOT 11**  
**SCHOOLEY MILL FARM**

ZONED: R-ED  
 TAX MAP NO.: 40 PARCEL NO.: 115 & 149 GRID NO.: 10 & 14  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30'  
 DATE: AUGUST 4, 2014



**SEPTIC SYSTEM ELEVATIONS**  
 A= 490.5  
 B= 487.96 (INV. INTO TANK)  
 C= 483.28  
 D= 484.61  
 E= 485.86  
 F= 487.86  
 G= 488.86  
 H= 1.27' (7" MIN.)  
 I= 489.23 (INV. OUT OF TANK)

FFE = 497.24  
 BSE = 487.40  
 INV. OUT OF HOUSE = 488.56  
 INV. INTO DISTRIBUTION BOX = 486.9  
 TOP OF TANK = 489.23  
 DOSE VOLUME = 53 GAL.  
 TIME PER DOSE = 1 MIN.

**NOTE:**  
 THE PROPOSED HOUSE IS TO HAVE 6 BEDROOMS.

**BAT NOTES**

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM COVER OVER THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRAFFIC BEARING TANK IS REQUIRED.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
- ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- AN AGREEMENT AND EASEMENT HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, LIBER 14780, FOLIO 067.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
- AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL GOES BENEATH PROBE.
- IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.
- ALARM TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

**SEWAGE DISPOSAL SYSTEM DATA (6 BEDROOMS)**

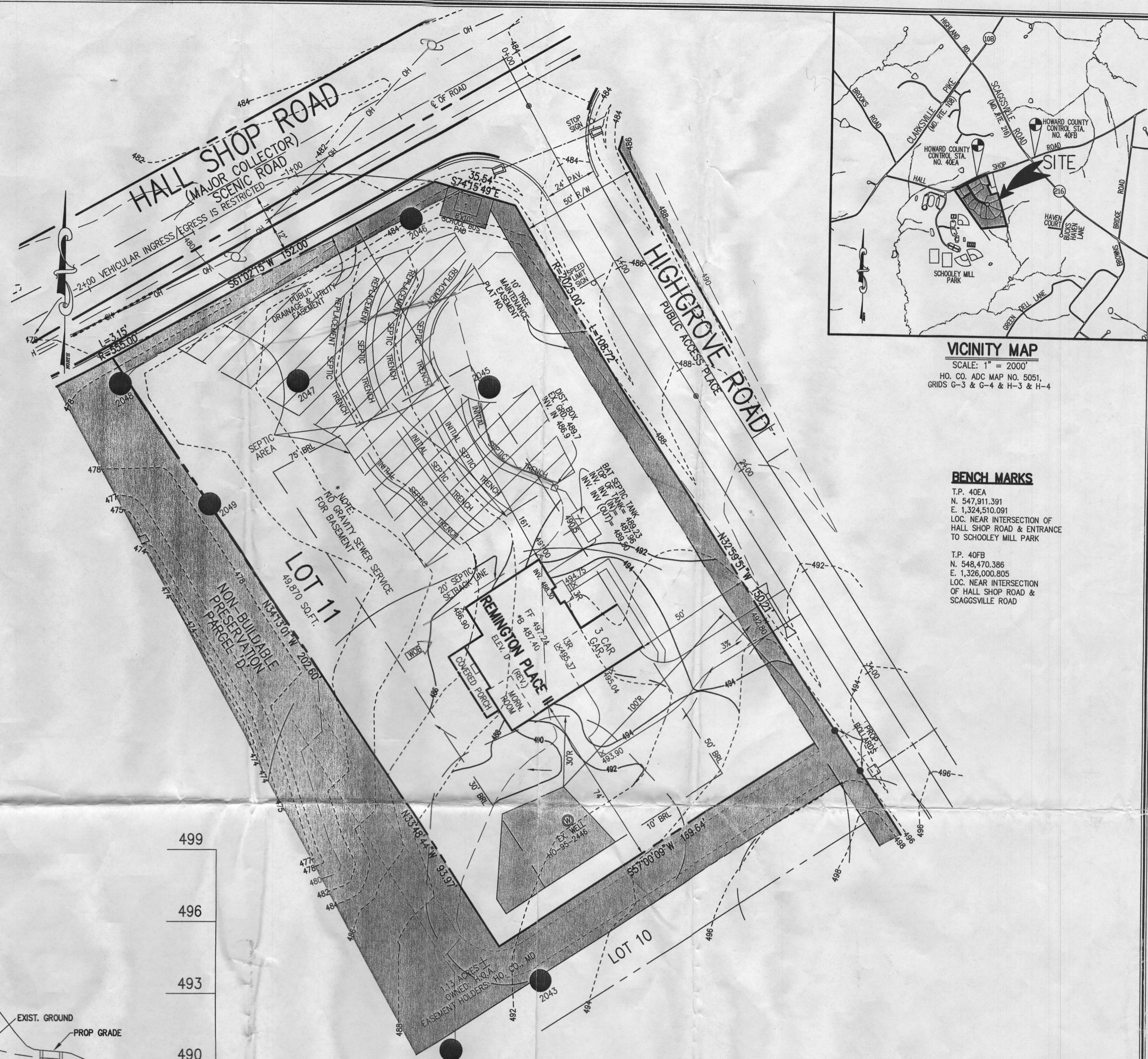
- PROP. INVERT AT FOUNDATION WALL: 486.53  
 1. HOOT 600 BNR (MAX. NO. BDRMS.=6)  
 EX. GRADE OVER TANK: 489.7  
 PROP. GRADE OVER TANK: 489.7  
 INVERT INTO TANK: 486.16 INVERT (DISCHARGE ELEV.) OUT TANK: 489.3
2. DISTRIBUTION BOX:  
 EX. GRADE: 489.7  
 PROP. GRADE: 489.7  
 INVERT IN: 486.9
3. TRENCH DESIGN:  
 (6 BDRM X 150 GPD/BDRM = 900 GPD)  
 900 / 0.8 APP. RATE = 1125 SF  
 USE 3' WIDE TRENCH AND 9' MIN. SPACING BETWEEN TRENCH EDGES.  
 1125 SF / 3' WIDTH = 375 L.F. X 0.57 = 214 L.F. MIN. TRENCH  
 USE 4 - 54' LONG TRENCHES = 216 L.F.

**INITIAL TRENCH DATA:**

- TRENCH 1:  
 EX. GROUND ABOVE = 489.7  
 INV. IN = 486.7  
 BOTTOM TRENCH = 482.7
- TRENCH 2:  
 EX. GROUND ABOVE = 488.3  
 INV. IN = 485.3  
 BOTTOM TRENCH = 481.3
- TRENCH 3:  
 EX. GROUND ABOVE = 487.3  
 INV. IN = 484.3  
 BOTTOM TRENCH = 480.3
- TRENCH 4:  
 EX. GROUND ABOVE = 485.8  
 INV. IN = 482.8  
 BOTTOM TRENCH = 478.8

**REPLACEMENT TRENCH DATA:**

- TRENCH 1:  
 EX. GROUND ABOVE = 489.5  
 INV. IN = 486.5  
 BOTTOM TRENCH = 482.5
- TRENCH 2:  
 EX. GROUND ABOVE = 488.0  
 INV. IN = 485.0  
 BOTTOM TRENCH = 481.0
- TRENCH 3:  
 EX. GROUND ABOVE = 487.0  
 INV. IN = 484.0  
 BOTTOM TRENCH = 480.0
- TRENCH 4:  
 EX. GROUND ABOVE = 486.0  
 INV. IN = 483.0  
 BOTTOM TRENCH = 479.0



**VICINITY MAP**  
 SCALE: 1" = 2000'  
 HO. CO. ADC MAP NO. 5051,  
 GRIDS G-3 & G-4 & H-3 & H-4

**BENCH MARKS**  
 T.P. 40EA  
 N. 547,911.391  
 E. 1,326,510.091  
 LOC. NEAR INTERSECTION OF  
 HALL SHOP ROAD & ENTRANCE  
 TO SCHOOLEY MILL PARK

T.P. 40FB  
 N. 548,470.386  
 E. 1,326,000.805  
 LOC. NEAR INTERSECTION  
 OF HALL SHOP ROAD &  
 SCAGSVILLE ROAD

**ITT** **GOULDS PUMPS** Wastewater

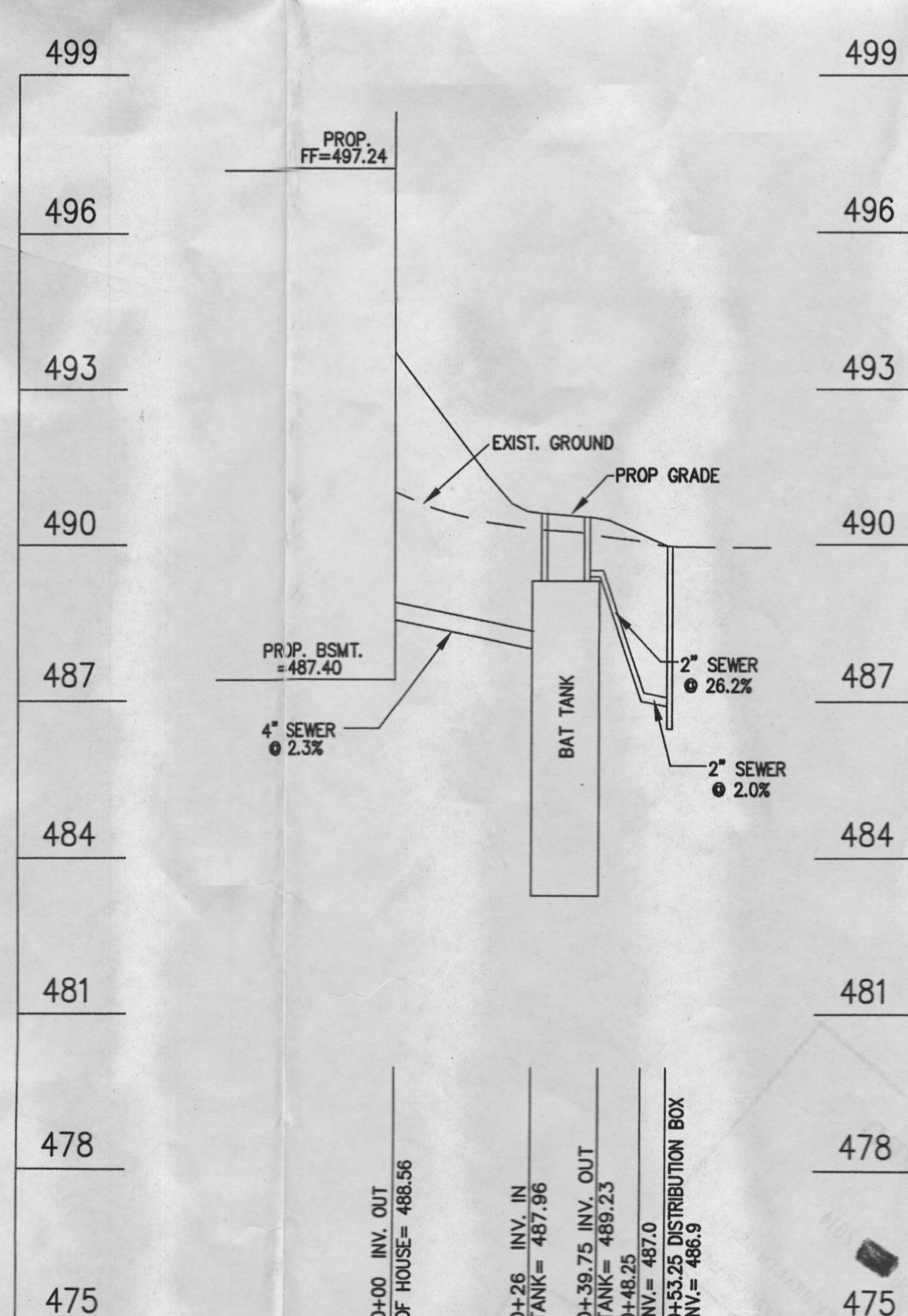
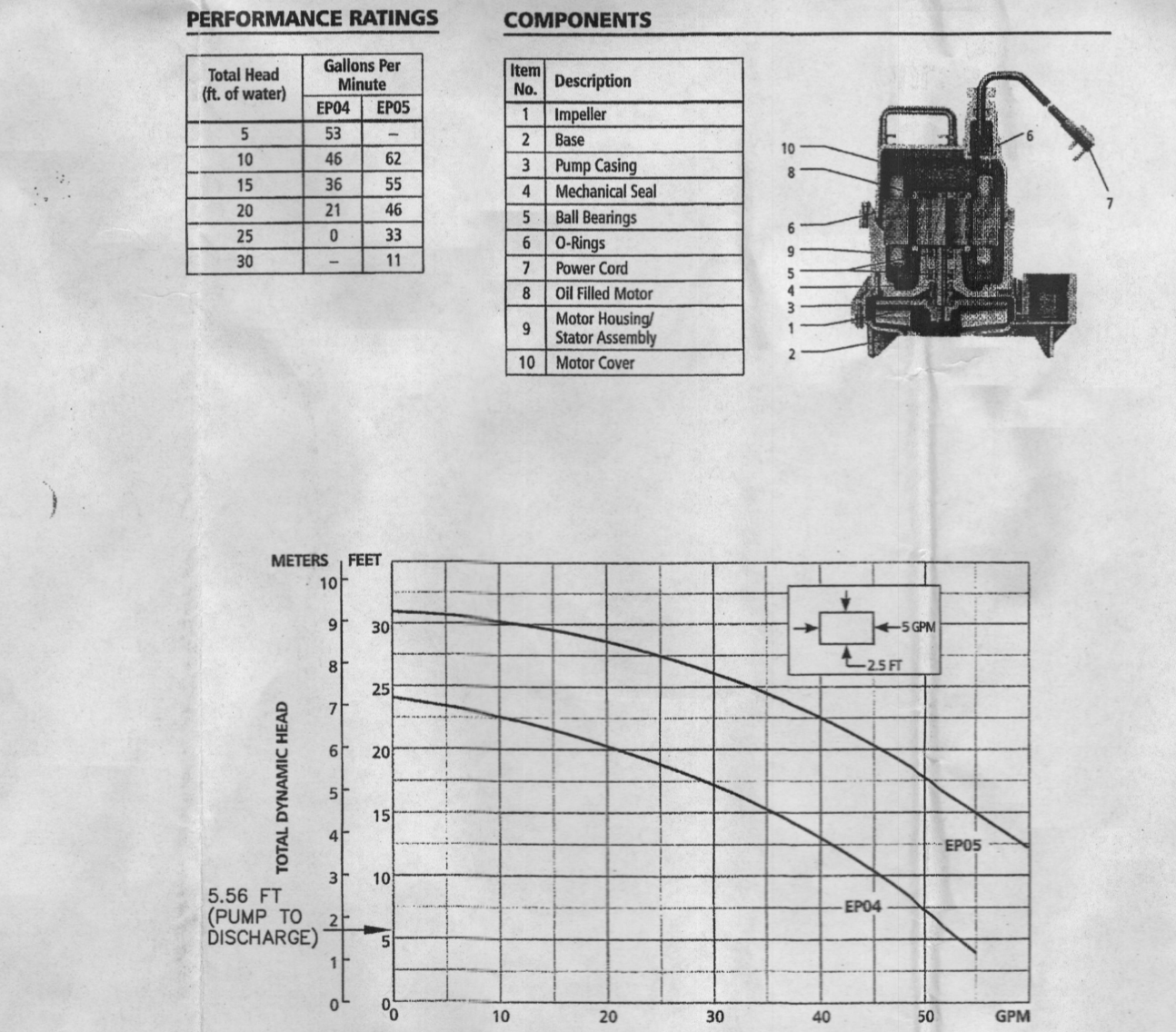
**ITT** **GOULDS PUMPS** Wastewater

**APPLICATIONS**  
 Specifically designed for the following uses:  
 • Effluent systems  
 • Homes  
 • Farms  
 • Heavy duty sump  
 • Water transfer  
 • Dewatering

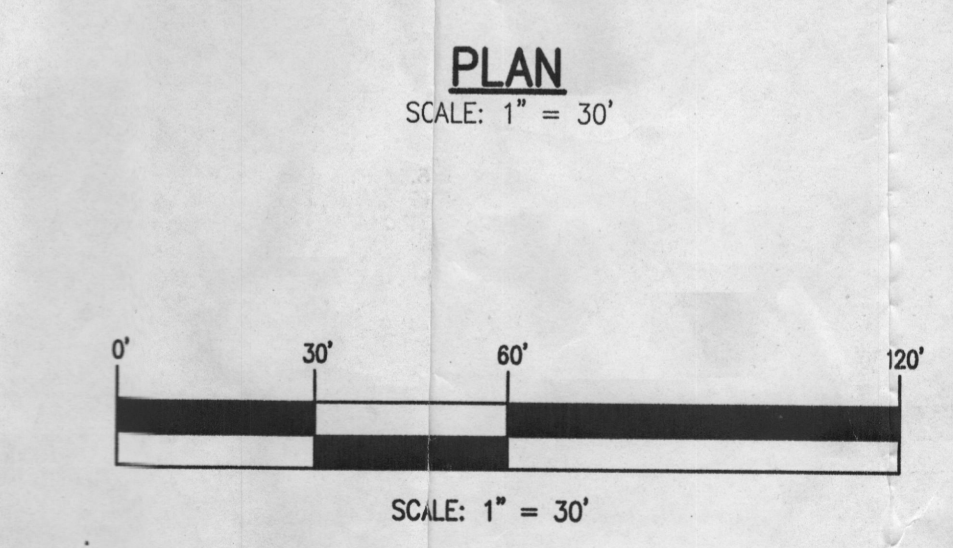
**SPECIFICATIONS**  
 • Solids handling capability: 1/2" maximum.  
 • Capacities: up to 60 GPM.  
 • Total heads: up to 31 feet.  
 • Discharge size: 1 1/2" NPT.  
 • Mechanical seal: carbon-rotary/ceramic-stationary, Buna-N elastomers.  
 • Temperature: 104° F (40° C) continuous, 140° F (50° C) intermittent.  
 • Fasteners: 300 series stainless steel.  
 • Capable of running dry without damage to components.

**MODEL INFORMATION**

Order No.	HP	Volts	Amperage	Minimum Circuit Breaker	Phase	Float Switch Style	Cord Length	Discharge Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Solder Size	Shipping Weight	Shipping Box
EP0411						Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20 / 9.1	
EP0411A						Piggyback / Wide-Angle	10'	1 1/2"	12"	6"	15"		21 / 9.5	
EP0411F	115	12	20			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		20 / 9.1	
EP0411AC						Piggyback / Wide-Angle	20'	1 1/2"	12"	6"	15"		21 / 9.5	
EP0412	230	6	10			Plug / No Switch	10'	1 1/2"	Manual	Manual	15"	1/4"	20 / 9.1	
EP0412F						Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22 / 10	
EP0511F	115	13	20			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		23 / 10.4	
EP0511AC						Piggyback / Wide-Angle	20'	1 1/2"	12"	6"	15"		23 / 10.4	
EP0512F	230	6.5	10			Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22 / 10	



**SEPTIC SYSTEM PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 3'



**PLAN**  
 SCALE: 1" = 30'

**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. 12043, EXPIRATION DATE: 7/16/16.  
 Paul W. Kriebel  
 PAUL W. KRIEBEL  
 DATE: 08/25/14



**WELL CERTIFICATION:**  
 THE EXISTING WELL, TAG NO. HO-95-2446, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

**BUILDER/DEVELOPER**  
 NV HOMES  
 9720 Patuxent Woods  
 COLUMBIA, MARYLAND 21046  
 410-379-5956

**SCHOOLEY MILL FARM**  
**SITE PLAN FOR BAT INSTALLATION**  
**FOR LOT 11**  
 13006 HIGHGROVE ROAD  
 Zoned: RR-DEO  
 Tax Map No. 40; Grid No. 10 & 11; Parcel No. 115 & 149  
 Fifth Election District - Howard County, Maryland  
 Date: AUGUST 25, 2014 Scale: As Shown