



Howard County
Health Department

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: 10/5/15

ONSITE SEWAGE DISPOSAL SYSTEM

P P557399

APPROVAL DATE: _____

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 13061 Hall Shop Road

SUBDIVISION: Nicolar Estates

LOT: 3

TAX ID: 05-450330

CONTRACTOR: Fogle's Septic Clean Inc

EMAIL: kevin@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:

MDE

MANUFACTURER:

PROPERTY OWNER: Rafiq Naseem

EMAIL: nasrafiq01@hotmail.com

OWNER ADDRESS: 13061 Hall Shop Road, Highland, MD 20777

PHONE: 443-791-7553

BAT UNIT MODEL: Hoot-1000GPD

PUMP SIZE: 2hp

PUMP TANK CAPACITY: 2000gallons

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 10/30/15

DATE RECORDED: 10/30/15

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 8

APPLICATION RATE: 1.2

TRENCHES:

LINEAR FEET REQUIRED: ~~227~~ 220'

INLET DEPTH: 3.5'

TRENCH WIDTH: 3

MAXIMUM BOTTOM DEPTH: 6'

MINIMUM SPACE

BETWEEN TRENCHES: 10

EFFECTIVE AREA BEGINNING DEPTH: 3

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES:

4 x 55' Trenches

ISSUED BY: Dana Bernard

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 SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIENT 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: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

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

8/29/17 On site for pump + alarm and Hoot startup. Electric not connected - Mike Sample will notify Fogle's. (SC) 11/6/17 On site for Hoot startup with Mike Sample. Alarm sounds, pump pumps effluent to D-box. Pump is model 20EB, pumps 20 gpm. Need southern two observation ports raised above grade + cracked Hoot. Switch replaced. (SC)

See As-Built Drawing
On Separate Sheet

11/28/17 - site inspection - the 2
Observation ports that were
buried have been uncovered. (RR)

11. Hoot Tank-

- Depth 2.5' - 3'
- Top Seam
- Level
- Mayer Bros.
- Rear Manhole
- No 6" C/O

ROAD NAME

TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|-------------------------|-------|----------------|
| 3' | 3.5' | 6' |
| NUMBER OF TRENCHES | | 4 |
| TOTAL LENGTH | | 233' |
| ABSORPTION AREA | | 699 + Sidewall |
| DISTRIBUTION BOX LEVEL | | Yes |
| DISTRIBUTION BOX BAFFLE | | Elbow |
| DISTRIBUTION BOX PORT | | Yes |

SEPTIC TANK DATA

| | |
|--------------------------|--------------|
| SEPTIC TANK I LEVEL | Yes |
| MANUFACTURER | Mayer Bros |
| CAPACITY | 1000 GAL |
| SEAM LOC | Top |
| TANK LID DEPTH | 1.5' - 2' |
| BAFFLES | Yes |
| BAFFLE FILTER | No |
| MANHOLE LOC | Front + Rear |
| 6" PORT LOC | None |
| WATERTIGHT TEST | No |
| SLOTTED | No |
| DATE ON LID | Dry |
| (PUMP) SEPTIC TANK LEVEL | Yes |
| MANUFACTURER | Mayer Bros |
| CAPACITY | 2000 GAL |
| SEAM LOC | Top |
| TANK LID DEPTH | 2.5' - 3' |
| BAFFLES | Front |
| BAFFLE FILTER | No |
| MANHOLE LOC | Front + Rear |
| 6" PORT LOC | None |
| WATERTIGHT TEST | No |
| SLOTTED | No |
| DATE ON LID | Dry |

PRE-CONSTRUCTION:

11/30/15 No stakes present. Measured off house to find spot of tank - tried to contact owner/builder to see if it's okay to set tanks but no answer. Ideally we'd like to move 15' closer to house to stay clear of pine trees near pump tank outlet location. Do not set tanks until staked and/or owner gives the go-ahead. (SC)

INSTALLATION: 12/16/2015 Trenches laid out. (BB) 12/21/2015 (AM) First two tanks set. (BB) 12/21/2015 (PM) all tanks set. Nothing else done. Backhoe broken. (BB) 12/28/2015 Tanks set. Pump line installed. Dist. box set. Trenches done. Need plumbing from house to tanks. (BB)

12/30/2015 Need house connection. The rest of the plumbing from the house to the tank has been installed. (BB)

7/14/17 Owner stopped in to HD office for status update of Septic Permit. Need start-up and p/A test verification of septic components prior to ground. (KM)

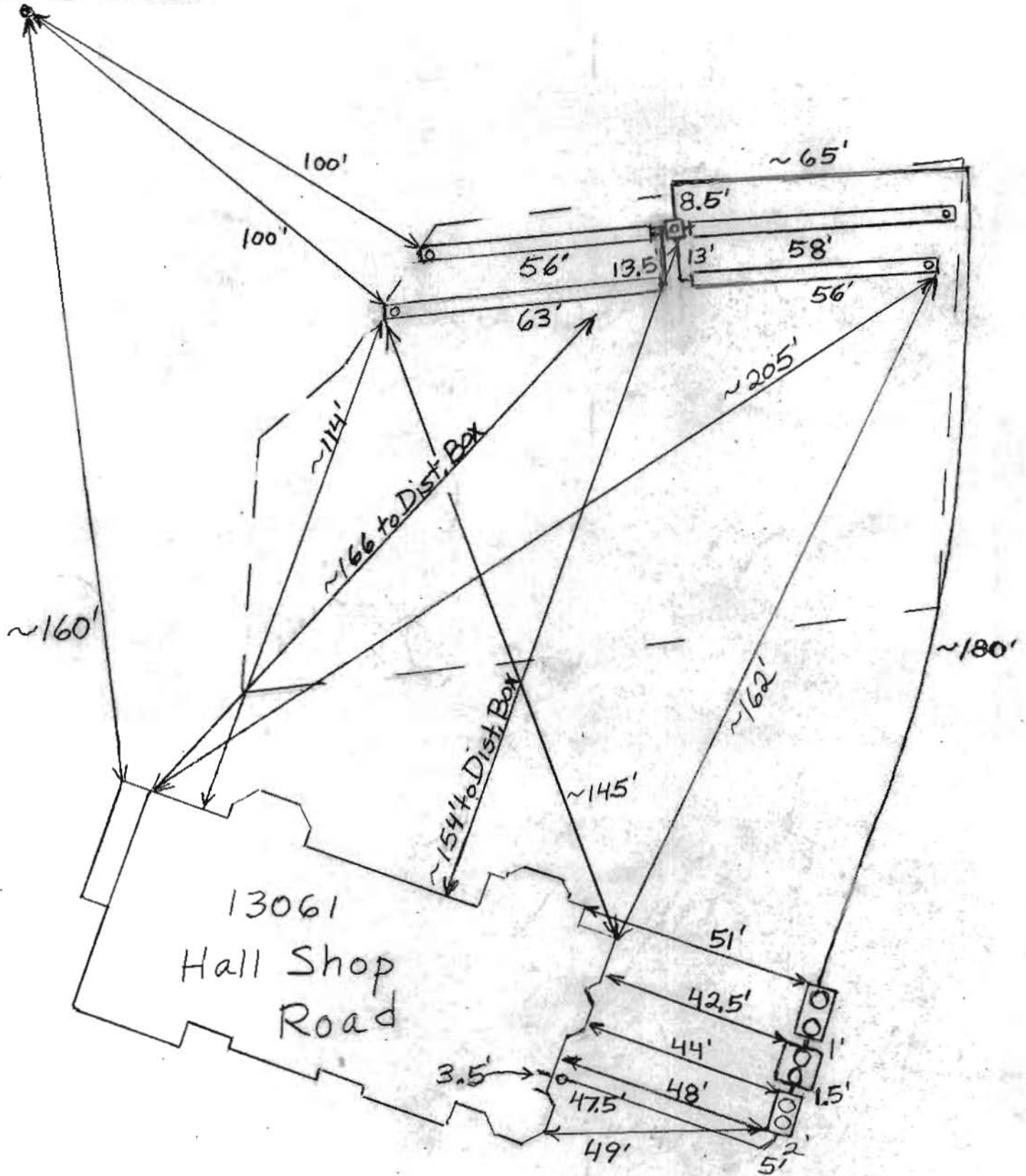
FINAL INSPECTOR

R. Rappaport

DATE OF APPROVAL

11/28/17

HO-95-0068





MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 13061 Hall Shop Rd.
Highland, MD, 20777

Date of Final Inspection: 11/6/17

Installer: Fogles

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

www.mayerbrosprecast.com

Concrete Underpinning, Concrete Structures, Septic Treatment Tanks, Storm Tanks, Retaining Walls, Storm Water Structures, Hydroponics, Beach Barriers, Water Meter Vaults, Sewer Valve Vaults, Top Boxes, Catch Basins, Check Structures, Custom Precast Products



P.O.BOX 10123
SILVER SPRING, MARYLAND 20914
TEL. 301 - 5151514 FAX: 301- 5155599

TOTAL ENGINEERING SERVICES
CIVIL ENGINEERING, LAND SURVEYING

TRANSMITTAL

DATE: 07-15-15

TO: HOWARD county
Bureau of Environmental Health
8930 Stanford Blvd, Columbia MD 21045

ATTENTION: Ms. Dana Bernard

#13061
SUBJECT: HALL SHOP ROAD

WE ARE TRANSMITTING BY:

MAIL _____ MESSENGER XX

2 PRINTS OF REVISED BAT SITE PLAN

REMARKS: Please feel free to call Heshmat Eskandari @ 301 - 515 1514 if you have any questions or comments.



P.O. BOX 10123
SILVER SPRING, MARYLAND 20914
TEL. 301 - 5151514 FAX: 301 - 5155589

TOTAL ENGINEERING SERVICES
CIVIL ENGINEERING, LAND SURVEYING

TRANSMITTAL

DATE: 06-25-15
TO: HOWARD county
Bureau of Environmental Health
8930 Stanford Blvd, Columbia MD 21045
ATTENTION: *MS. Dana Bernard*
SUBJECT: 13061 HALL SHOP ROAD

WE ARE TRANSMITTING BY:

MAIL _____ MESSENGER XX

2 PRINTS OF REVISED BAT SITE PLAN

REMARKS: Please feel free to call Heshmet Eskanderi @ 301 - 515 1514 If you have any questions or comments.

Martin, Sharhonda

From: John Hieatzman <john@foglesinc.com>
Sent: Wednesday, November 22, 2017 2:39 PM
To: Martin, Sharhonda
Subject: Hall Shop Rd

Hi Sharonda,

RE:
NASEEN & RUKHSANA RAFIQ
13061 HALL SHOP RD
HIGHLAND, MD 20777

Fogle's Septic will be out to locate/repair the observation port at the above address. This work will require equipment and will be coordinated with the homeowner once we have a signed agreement for the cost involved.

Regards,

John Hieatzman
Fogle's Septic Clean, Inc.
580 Obrecht Rd
Sykesville, MD 21784
410-795-5670



Returned

Call
10:55

7-7-15

~~RECEIVED
JUN 26 2015
HOWARD COUNTY CLERK DEPT
BUREAU OF ENVIRONMENTAL PLANNING~~

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Agreement Recording Fee
20.00
Grantor/Grantee: Rafiq
Reference/Control: 137

LR - Late Payment Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

CRD-Credit 60.00
Credit Card Confirmation : 233706

10/31/2015 15:23 CC13-CH
#50935 495/109

Thank you for visiting us today~



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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
Twitter: HowardCoHealthDep

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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 30 day of 10/15, among Rukhsana Rafiq, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 13061 Hall Shepard Rd Highland md, in the 4 Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber _____ Folio _____.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is first step septic.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

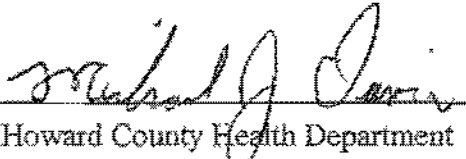
G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.


Howard County Health Department 10/30/15


Owner #1 Signature Date


Owner #1 Print Name

Owner#2 Signature Date

Owner #2 Print Name

Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name

TES Consultants LLC

P.O.Box 10123, Silver Spring, MD. 20914
(301) 515-1514 Fax (301) 515-5589

**13061 HALL SHOP ROAD, HIGHLAND MD
TRENCH CALCULATION**

NUMBER OF BEDROOMS: 6

INITIAL RATE: 1.2

1ST REPALEMENT RATE: 1.2

2ND REPLACEMENT RATE: 0.8

EFFECTIVE DEPTH OF GRAVEL BELOW PIPE = 18"

% OF LENGTH (FROM TABLE) = 0.71

INITIAL SYSTEM:

DESIGN FLOW: 150 GAL X 6 = 900 GAL/DAY

SQFT. OF TRENCH REQ = 900 /1.2 = 750 SQFT

LENGTH OF TRENCH = 750 /3 (TRENCH WIDTH) = 250 FEET

LENGTH OF TRENCH (DEPTH ADJUSTED) = 250X 0.71 (FROM TABLE) = 178'

1ST REPALCEMENT:

DESIGN FLOW: 150 GAL X 6 = 900 GAL/DAY

SQFT. OF TRENCH REQ = 900 /1.2 = 750 SQFT

LENGTH OF TRENCH = 750 /3 (TRENCH WIDTH) = 250 FEET

LENGTH OF TRENCH (DEPTH ADJUSTED) = 250X 0.71 (FROM TABLE) = 178'

2ND REPALCEMENT:

DESIGN FLOW: 150 GAL X 6 = 900 GAL/DAY

SQFT. OF TRENCH REQ = 900 /0.8 = 1125 SQFT

LENGTH OF TRENCH = 1125 /3 (TRENCH WIDTH) = 375 FEET

LENGTH OF TRENCH (DEPTH ADJUSTED) = 375X 0.71 (FROM TABLE) = 266'

T.E.S.

P.O.BOX 10123
SILVER SPRING, MARYLAND 20914
TEL. 301 - 5151514 FAX: 301- 5155569

TOTAL ENGINEERING SERVICES
CIVIL ENGINEERING, LAND SURVEYING

TRANSMITTAL

DATE: 07-01-15
TO: HOWARD county
Bureau of Environmental Health
6930 Stanford Blvd , Columbia MD 21045

ATTENTION: Ms. Dana Bernard

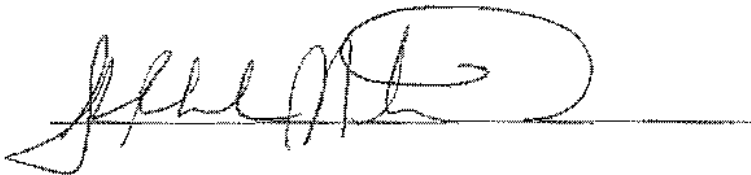
SUBJECT: HALL SHOP ROAD

WE ARE TRANSMITTING BY:

MAIL _____ MESSENGER XX

REVISED SEPTIC FIELD TRENCH CALCULATION
2 PRINTS OF REVISED BAT SITE PLAN

REMARKS: Please feel free to call Heshmet Eskandari @ 301 - 515 1514 if you have any questions or comments.



Bernard, Dana

From: Bernard, Dana
Sent: Tuesday, July 07, 2015 3:32 PM
To: 'tesconsultant@aol.com'
Cc: 'nawsrafiq01@hotmail.com'
Subject: 13061 Hall Shop Road



Maura J. Rossman, M.D., Health

MEMORANDUM

DATE: June 29, 2015

TO: TES Planners, Engineers and Surveyors
Via E-mail: tesconsultant@aol.com

CC: Homeowner: Rafiq Naseem
Via E-mail: nawsrafiq01@hotmail.com

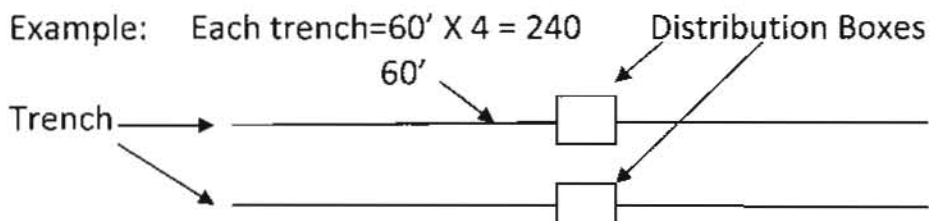
FROM: Dana Bernard, REHS, LEHS
Well and Septic Program
Development Coordination Section

RE: 13061 Hall Shop Road

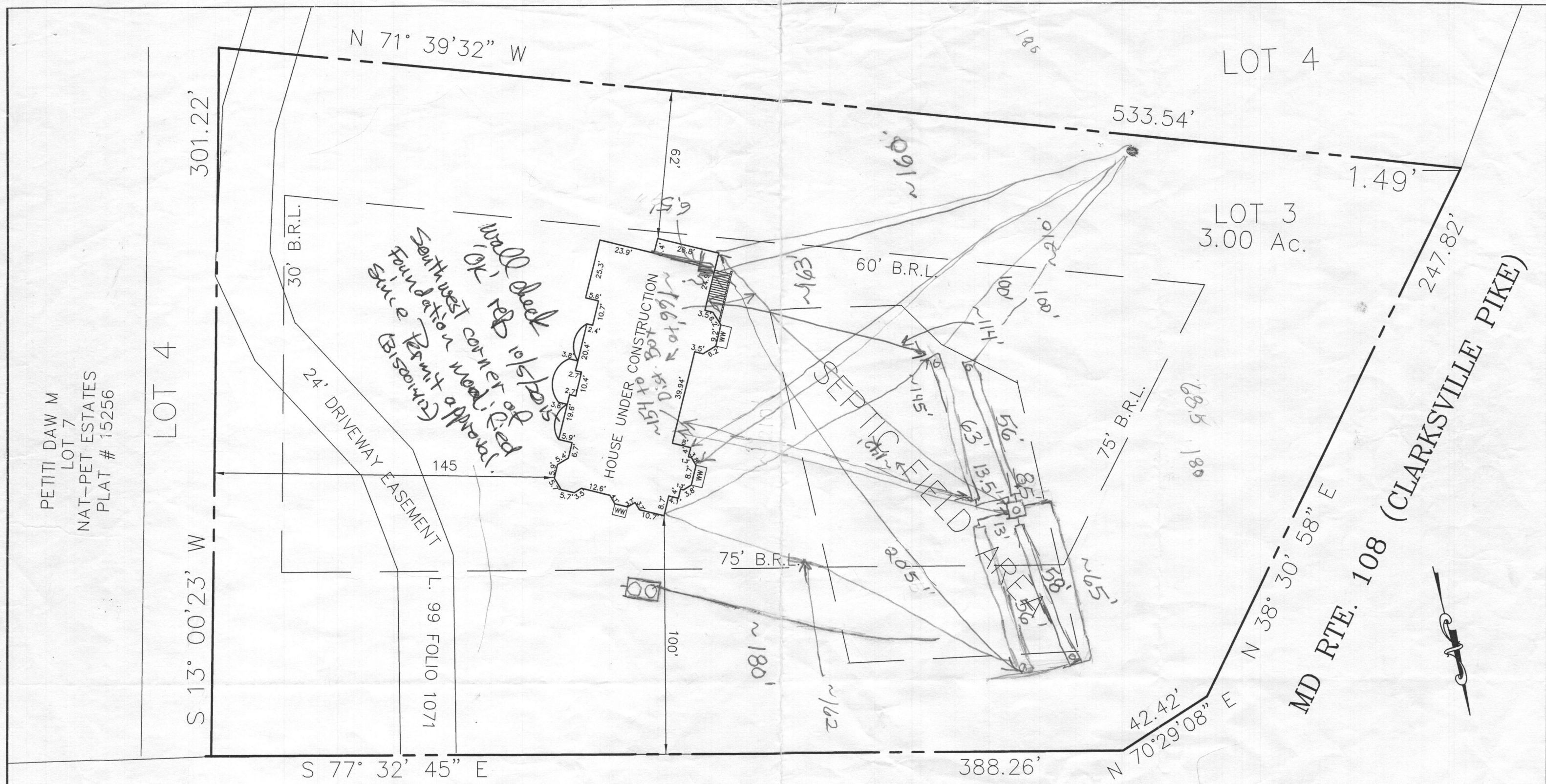
The following comments apply to the plan presented by TES Planners, Engineers, and Surveyors.

A revised BAT certification plan is needed showing the following:

- Trenches cannot be more than 100 feet long. You can place the distribution box in the middle of the trench therefore splitting the trench in half leaving the lengths less than 100 feet.



- Trenches must also be of equal length.
- Calculations for each installation must be shown on BAT plan



PETITI DAW M
LOT 7
NAT-PET ESTATES
PLAT # 15256

LOT 4

301.22'

S 13° 00' 23" W

30' B.R.L.

24' DRIVEWAY EASEMENT

L. 99 FOLIO 1071

S 77° 32' 45" E

N 71° 39' 32" W

HALL SHOP ROAD (60' R/W)

LOT 4

533.54'

1.49'

LOT 3
3.00 Ac.

60' B.R.L.

75' B.R.L.

247.82'

MD RTE. 108 (CLARKSVILLE PIKE)

N 70° 29' 08" E

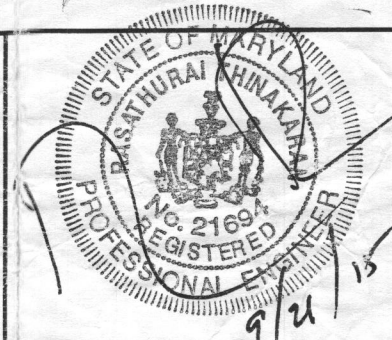
388.26'

WALL CHECK DATE: 9-21-15

SCALE: 1"=40'

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE POSITION OF EXISTING IMPROVEMENTS ON THE ABOVE SHOWN PROPERTY HAS BEEN LOCATED BY A FIELD SURVEY MADE ON THE GROUND, AND UNLESS OTHERWISE SHOWN HEREON, THERE ARE NO VISIBLE ENCROACHMENTS. THIS SURVEY IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.



Wall Check
13061 HALL SHOP ROAD, HIGHLAND
LOT 3
NICOLAR PROP EST II
COUNTY: HOWARD PLAT # 19650

TES
TOTAL ENGINEERING SERVICES
PLANNERS, ENGINEERS, SURVEYORS
TESCONSULTAN@AOL.COM
TEL: (301) 515 1514
P.O. BOX 10123
Silver Spring, Maryland 20914

PETIT DAW M
LOT 7
NAT-PET ESTATES
PLAT # 15256

LOT 4

S 13° 00' 23" W

301.22'

30' B.R.L.

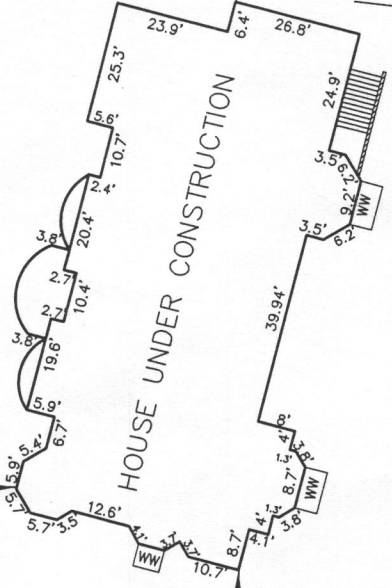
24' DRIVEWAY EASEMENT

L. 99 FOLIO 1071

S 77° 32' 45" E

N 71° 39' 32" W

*Southwest corner
of Foundation
modified for
Permitting
Biscuit
Well check OK
10/15/15*



75' B.R.L.

60' B.R.L.

75' B.R.L.

LOT 3
3.00 Ac.

LOT 4

533.54'

1.49'

247.82'

SEPTIC FIELD AREA

388.26'

N 70° 29' 08" E

N 38° 30' 58" E

MD RTE. 108 (CLARKSVILLE PIKE)



WALL CHECK DATE: 9-21-15

HALL SHOP ROAD (60' R/W)

SCALE: 1"=40'

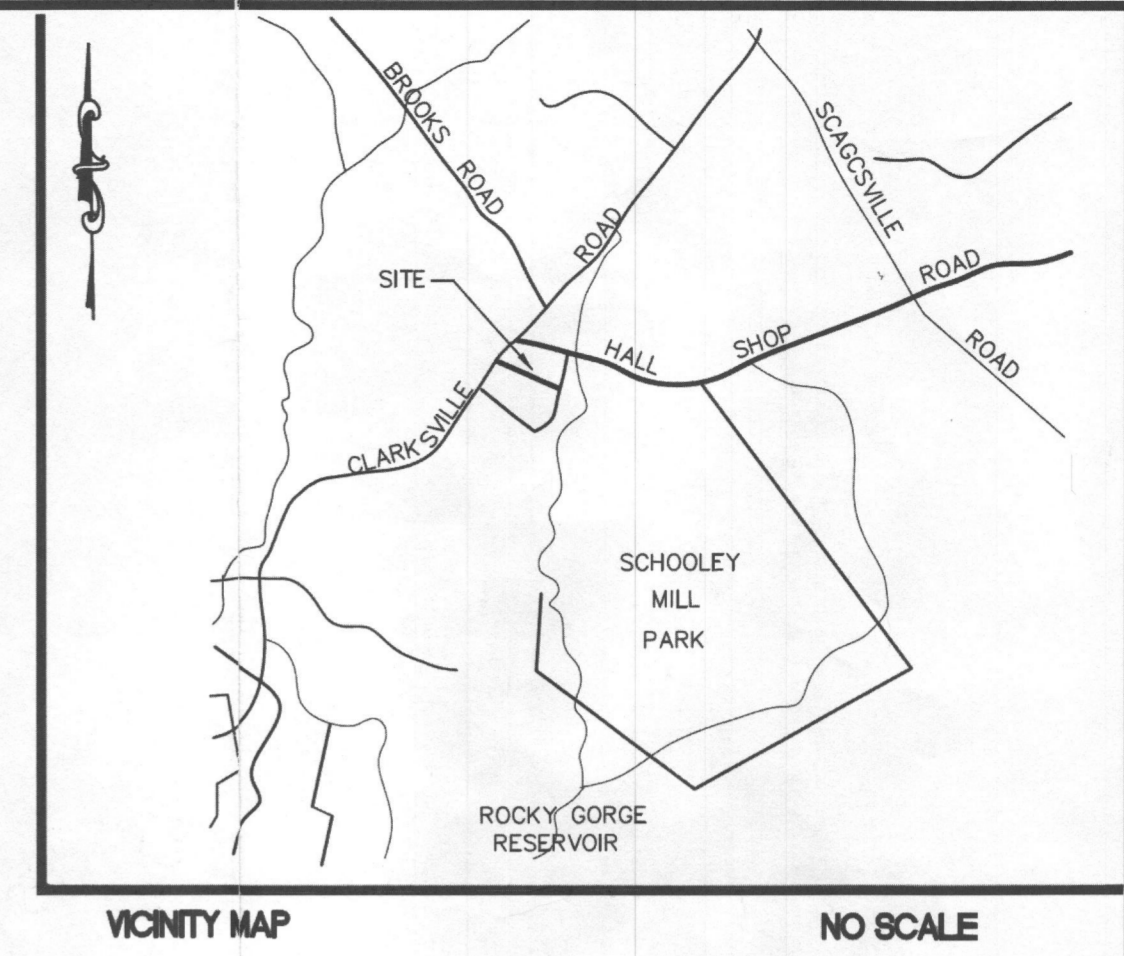
SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE POSITION OF EXISTING IMPROVEMENTS ON THE ABOVE SHOWN PROPERTY HAS BEEN LOCATED BY A FIELD SURVEY MADE ON THE GROUND, AND UNLESS OTHERWISE SHOWN HEREON, THERE ARE NO VISIBLE ENCROACHMENTS. THIS SURVEY IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.

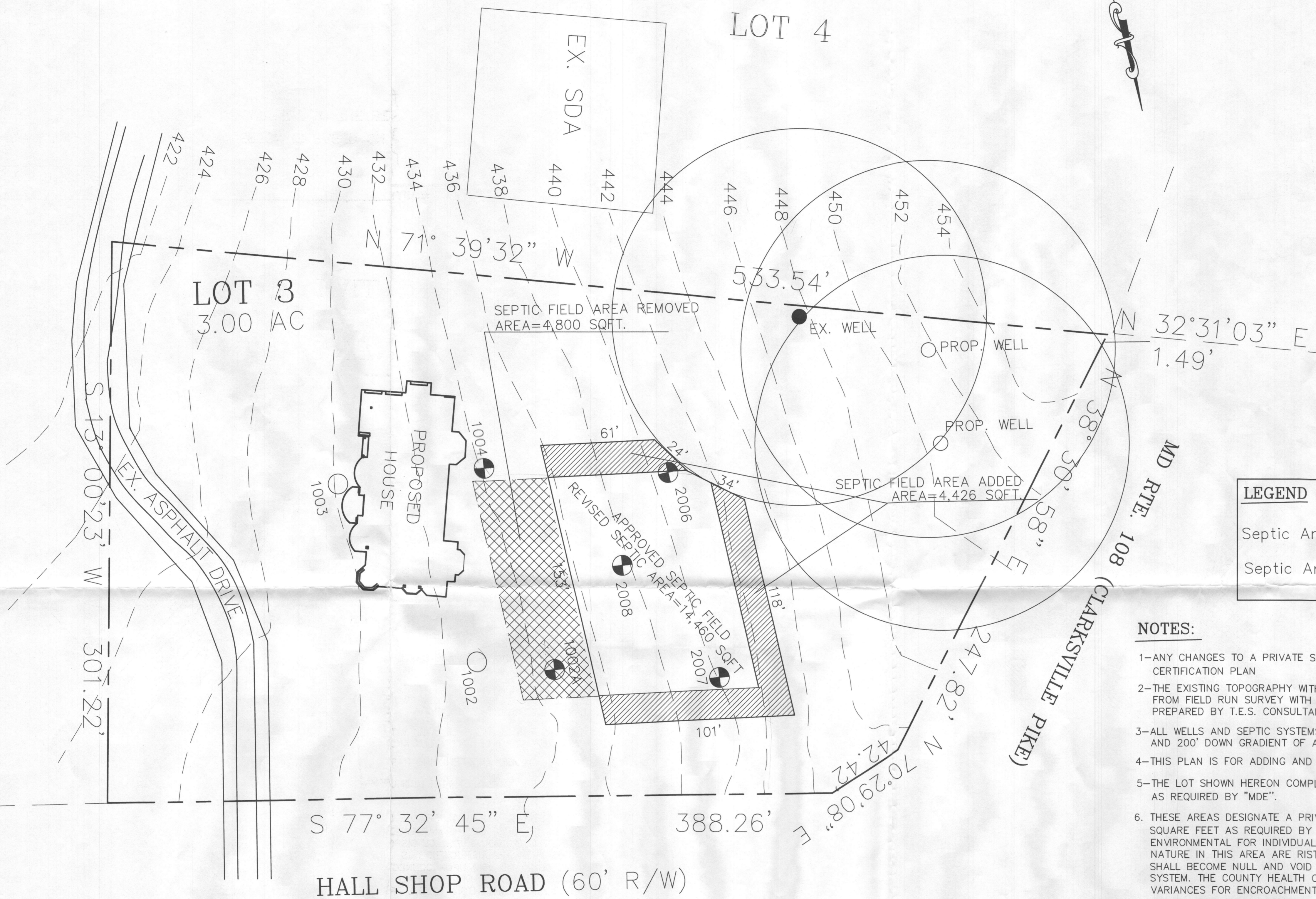


Wall Check
13061 HALL SHOP ROAD, HIGHLAND
LOT 3
NICOLAR PROP EST II
COUNTY: HOWARD PLAT # 19650

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PLANNERS, ENGINEERS, SURVEYORS
TESCONSULTAN@AOL.COM
TEL: (301) 515 1514
P.O. BOX 10123
Silver Spring, Maryland 20914



T.E.S.
TOTAL ENGINEERING SERVICES
 PLANNERS, ENGINEERS, SURVEYORS
 P.O. BOX 10123
 SILVER SPRING, MD 20914
 TEL:(301) 515 1514 FAX:(301) 515 5589



LEGEND

| | |
|---------------------------|--|
| Septic Area to be Removed | |
| Septic Area to be Added | |

- NOTES:**
- 1-ANY CHANGES TO A PRIVATE SEWAGE SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN
 - 2-THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOURS INTERVALS PREPARED BY T.E.S. CONSULTANT LLC .
 - 3-ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
 - 4-THIS PLAN IS FOR ADDING AND REMOVING PART OF APPROVED SEPTIC FIELD AS SHOWN.
 - 5-THE LOT SHOWN HEREON COMPLY WITH MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY "MDE".
 6. THESE AREAS DESIGNATE A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENTAL FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA IS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

REVISION :

| | |
|----------------------|----------|
| Septic FEILD REVISED | 11-20-14 |
|----------------------|----------|

PROJECT NAME
13061 HALL SHOP ROAD
 HIGHLAND
LOT 3
NICOLAR PROPERTY ESTATES
PLAT No. 19650
 HOWARD COUNTY, MARYLAND

DRAWING TITLE :

REVISED SEPTIC FIELD AREA
PROPOSED 2 WELL LOCATION

| | | |
|-------------|-------------------|---------------------|
| Drawn : | Approved : | Job No. : |
| In Charge : | Project Manager : | Project Architect : |
| Scale : | Drawing No. : | |
| 1" = 30' | 1 OF 1 | |
| Date : | | |
| 11-20-14 | | |

ENGINEERS CERTIFICATE:

I CERTIFY THAT THE INFORMATION SHOW HEREON IS BASED ON WORK PERFORMED IN MY PRESENCE OR BY MY DIRECTION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

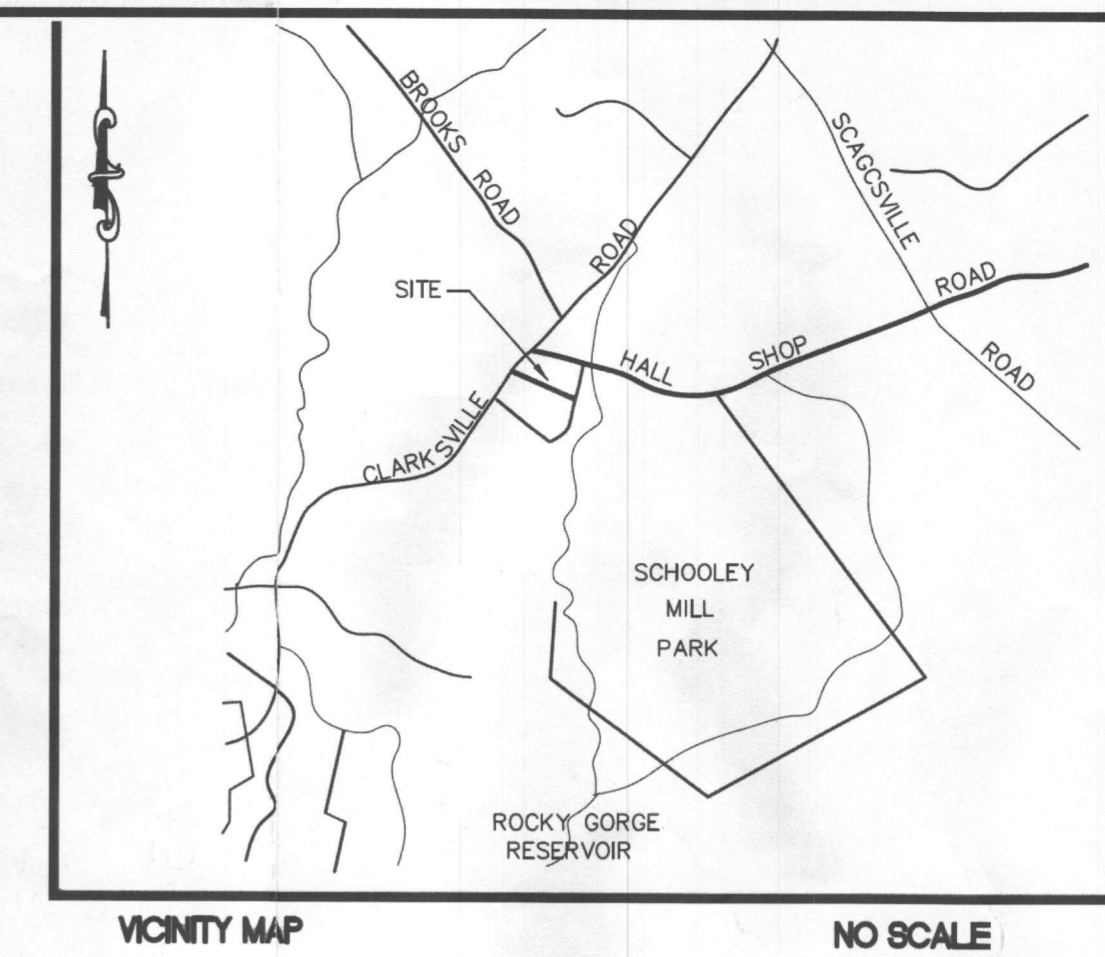
Rasathurat Thinakaran PE

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM"

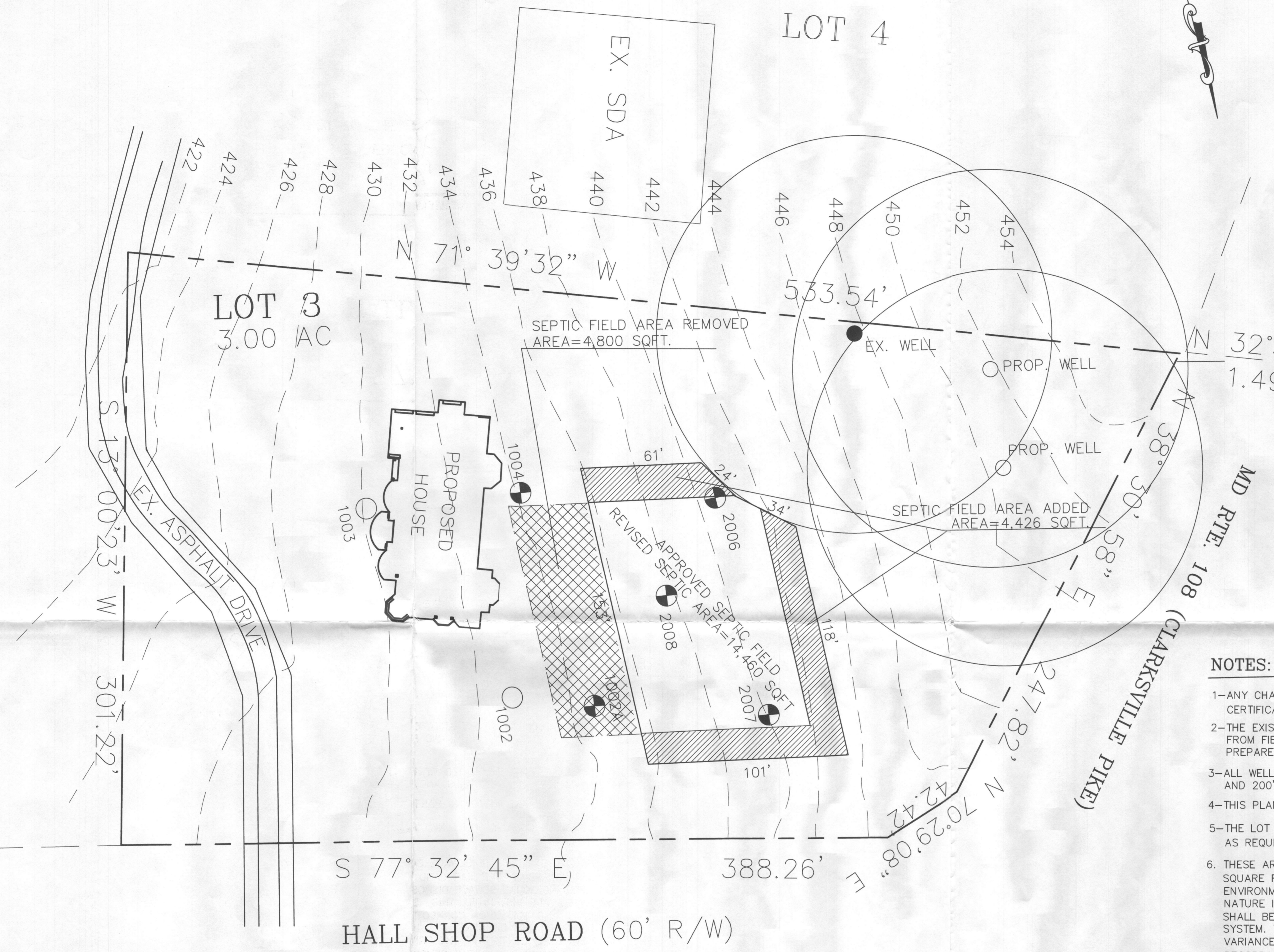
B. Wilson for Maureen Rossman
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT.

DATE: 12/17/2014
rsj

owner:
Rukhshana Rafiq
 7307 Trapp Street
 Fulton, MD 20759
 443-791-7553



T E S
TOTAL ENGINEERING SERVICES
 PLANNERS, ENGINEERS, SURVEYORS
 P.O. BOX 10123
 SILVER SPRING, MD 20914
 TEL:(301) 515 1514 FAX:(301) 515 5589



LEGEND

| | |
|---------------------------|--|
| Septic Area to be Removed | |
| Septic Area to be Added | |

- NOTES:**
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REVISION :

| | |
|----------------------|----------|
| Septic FEILD REVISED | 11-20-14 |
|----------------------|----------|

PROJECT NAME
13061 HALL SHOP ROAD
 HIGHLAND
LOT 3
NICOLAR PROPERTY ESTATES
 PLAT No. 19650
 HOWARD COUNTY, MARYLAND

DRAWING TITLE :

REVISED SEPTIC FIELD AREA
PROPOSED 2 WELL LOCATION

| | | |
|-------------|-------------------|---------------------|
| Drawn : | Approved : | Job No. : |
| In Charge : | Project Manager : | Project Architect : |
| Scale : | Drawing No. : | |
| 1" = 30' | 1 OF 1 | |
| Date : | 11-20-14 | |

ENGINEERS CERTIFICATE:

I CERTIFY THAT THE INFORMATION SHOW HEREON IS BASED ON WORK PERFORMED IN MY PRESENCE OR BY MY DIRECTION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

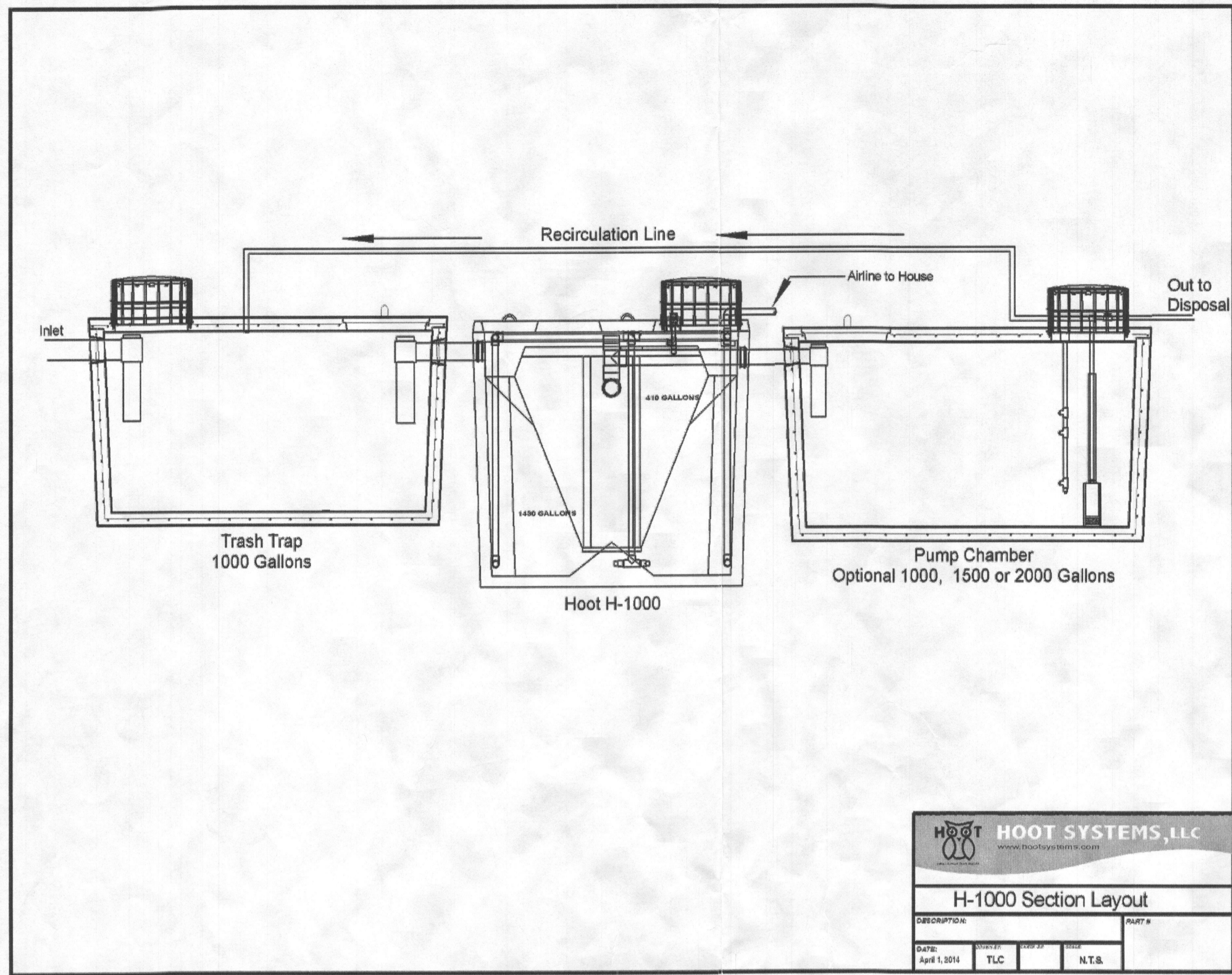
Rasathurai Thinakaran PE

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM"

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT.

DATE: 12/17/2014

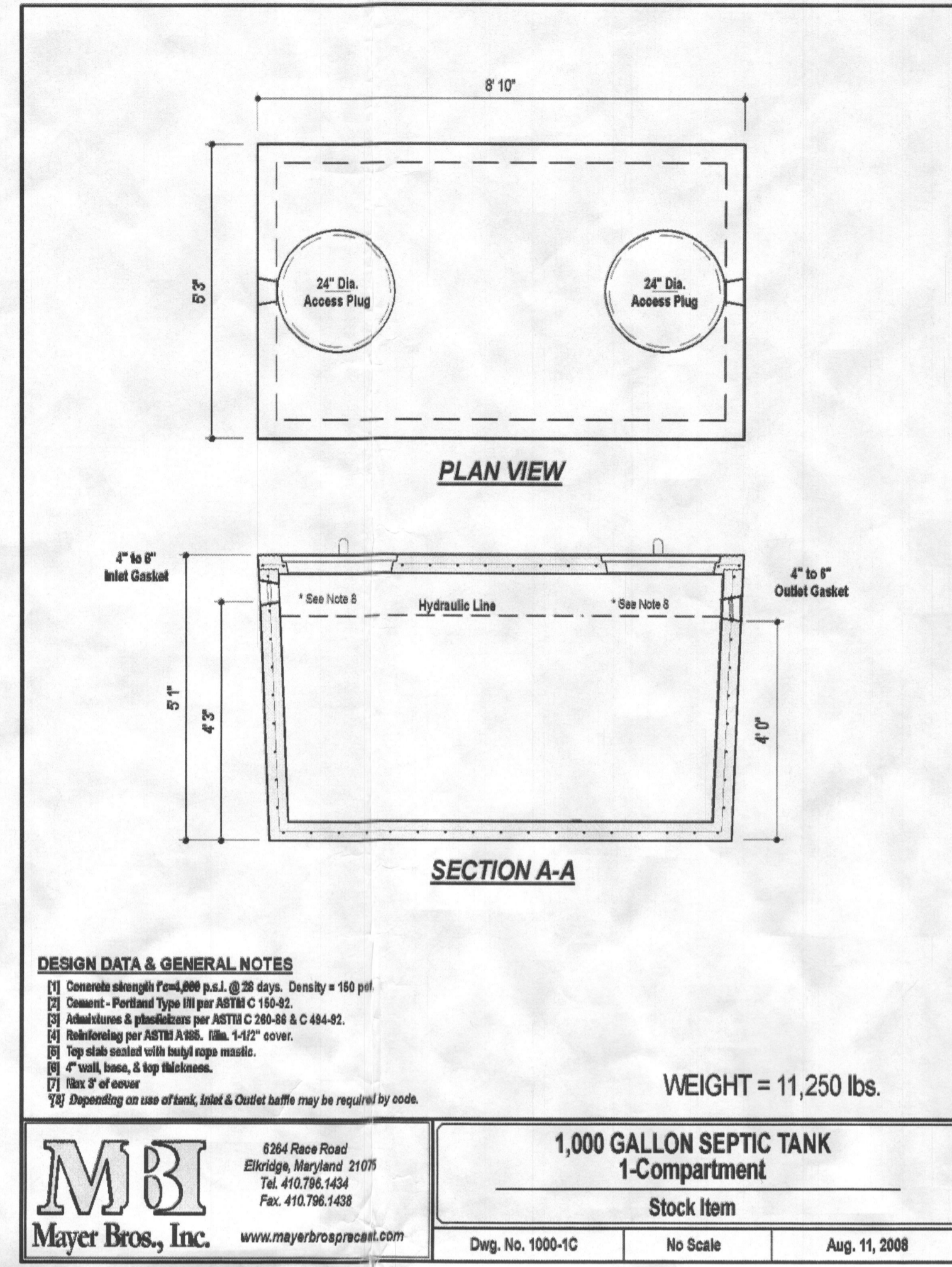
Owner:
 Rakshana Ralig
 7307 Trappe Street
 Fulton, MD 20759
 443-791-7553



HOOT SYSTEMS, LLC
www.hootsystems.com

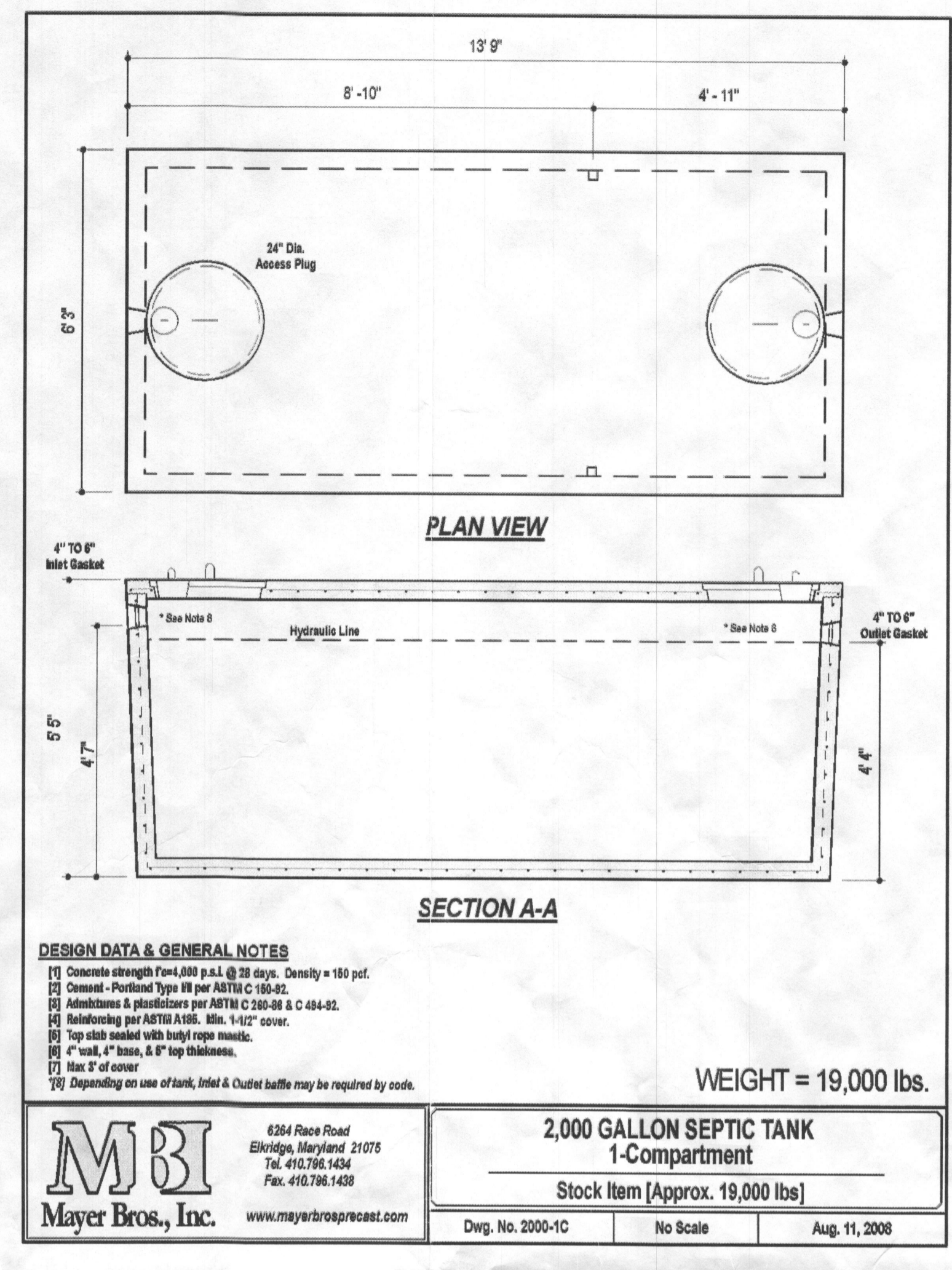
H-1000 Section Layout

DATE: April 1, 2008 PROJECT: TLC PART # N.T.S.



MBI
Mayer Bros., Inc. www.maybrospipecast.com

6364 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438



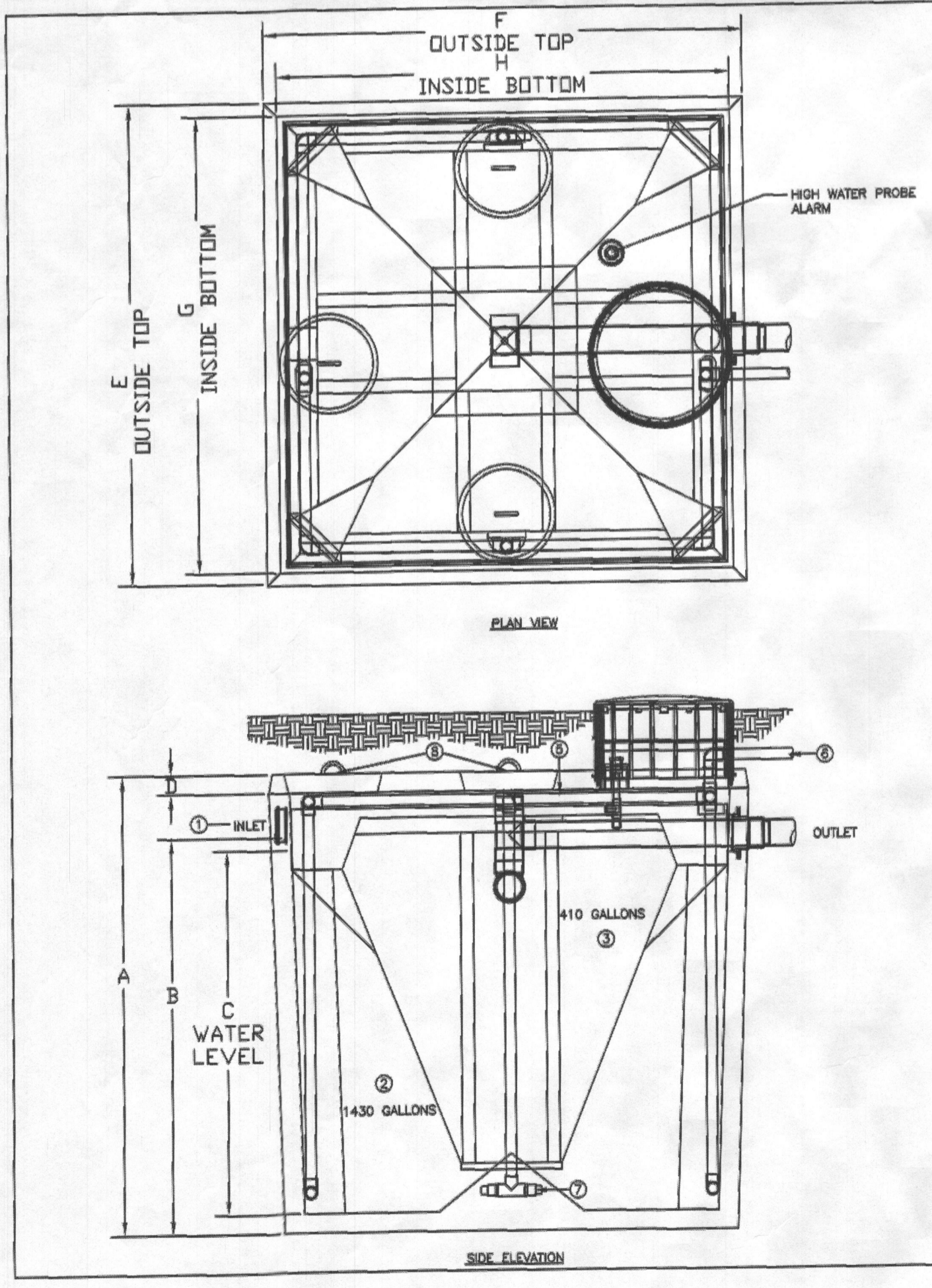
MBI
Mayer Bros., Inc. www.maybrospipecast.com

6364 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438

TLES

TOTAL ENGINEERING SERVICES
PLANNERS, ENGINEERS, SURVEYORS
P.O. BOX 10123
SILVER SPRING, MD 20914
TEL: (301) 515 1514 FAX: (301) 515 5689

REVISION :



HOOT SYSTEMS, LLC
www.hootsystems.com

H-1000-A

DATE: 9-11-10 DRAWN BY: AY CHECK BY: RS SCALE: N.T.S.

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |

CRITICAL DIMENSIONS

| Dimension | Value |
|-----------|--------|
| A | 80.00" |
| B | 70.25" |
| C | 65.00" |
| D | 4.00" |
| E | 82.00" |
| F | 82.00" |
| G | 80.00" |
| H | 80.00" |

THE MOST VERSATILE SEWERAGE SYSTEM

- IMPROVED PERFORMANCE TANK REQUIRED DRAIN 800 GALLONS - WHERE AMERICAN DISPOSITION COLLARS AND SERVICE FOR NON-REMOVABLE WASTES.
- AIRLINE CHAMBER - WHERE AIR IS INTRODUCED INTO SEWER FOR DISINFECTION.
- CLAMPED - A SEAL CHAMBER WHERE SOLIDS SETTLE OUT AND THE CLEAR EFFLUENT RISES.
- TROY AIR BLOWER - LONG LIFE, EFFICIENT, AIRLINE BLOWER WHICH OPERATES AUTOMATICALLY AND UNDER PRESSURE RELIEVES IT TO THE TANK MAY BE MANUALLY RELOADED UP TO 90" FROM SYSTEM MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE TO TANK.
- AIR MANIFOLD - DELIVERS THE AIR FROM THE LINE TO THE BLOWER FOR EFFICIENT INTO THE SEWER.
- AIRLINE LINE - DELIVERS THE AIR FROM THE PUMP TO THE MANIFOLD. CHECK VALVE INCLUDED.
- AIRLINE STRAP - AIR IS FINELY DIFFUSED FROM THE HOSE INTO THE SEWER CHAMBER.
- 1" COVERS - PROVIDE ACCESS TO EACH COMPONENT OF THE SYSTEM PER LOCAL CODE.

SEWAGE PUMPS

MYERS' MW SERIES

The Myers MW series sewage pumps are designed for light commercial and residential raw sewage applications. The enclosed two-vane impeller provides high-efficiency pumping and will easily handle stringy, trashy 2" solids without clogging. The heavy-duty cast iron construction ensures years of service in demanding applications. Available in single- and double seal models; cast iron and optional bronze impeller models.

APPLICATIONS: Sewage, high-capacity sump, effluent

INSTALLATION: Capacities - Up to 165 GPM (624 LPM) Shut-off Head - Up to 7' (21.3 m) Solids Handling - 2" (50.8 mm) Liquids Handling - Domestic sewage and drain water Intermittent Liquid Temperature - Up to 140°F (60°C) Motor/Electrical Data - 1/2 to 2 HP, 208/230V, 1ϕ, 208/230/460/875V, 3ϕ, 1ϕ, 3450 RPM, 60Hz Acceptable pH Range - 5-9 Discharge, NPT - 2" (50.8 mm) Housing - Cast Iron Power Cord - 25' Impeller - Ductile iron, bronze (optional) available on double seal models - consult Factory

FEATURES: Cast Iron Tough All cast-iron housing and volute case stand tough against extremely corrosive environments No Jamming Enclosed irregular design eliminates jamming between impeller and volute - cast iron or bronze (optional) Prevents Overheating Heat sensor overload protection with automatic reset when motor cools to a safe operating temperature (single phase only) Easy Service Remove only four screws for motor access; volute seal ring is replaceable

Guards Against Leaks Optional leak probe senses water leakage past seal (fuel seal motor only)

Powerful Starts High-torque, permanent split capacitor (PSC) motor; no starting switches or relays to wear out

Noise Protection Rugged, oil-filled motor for wearing lubrication and maximum heat dissipation

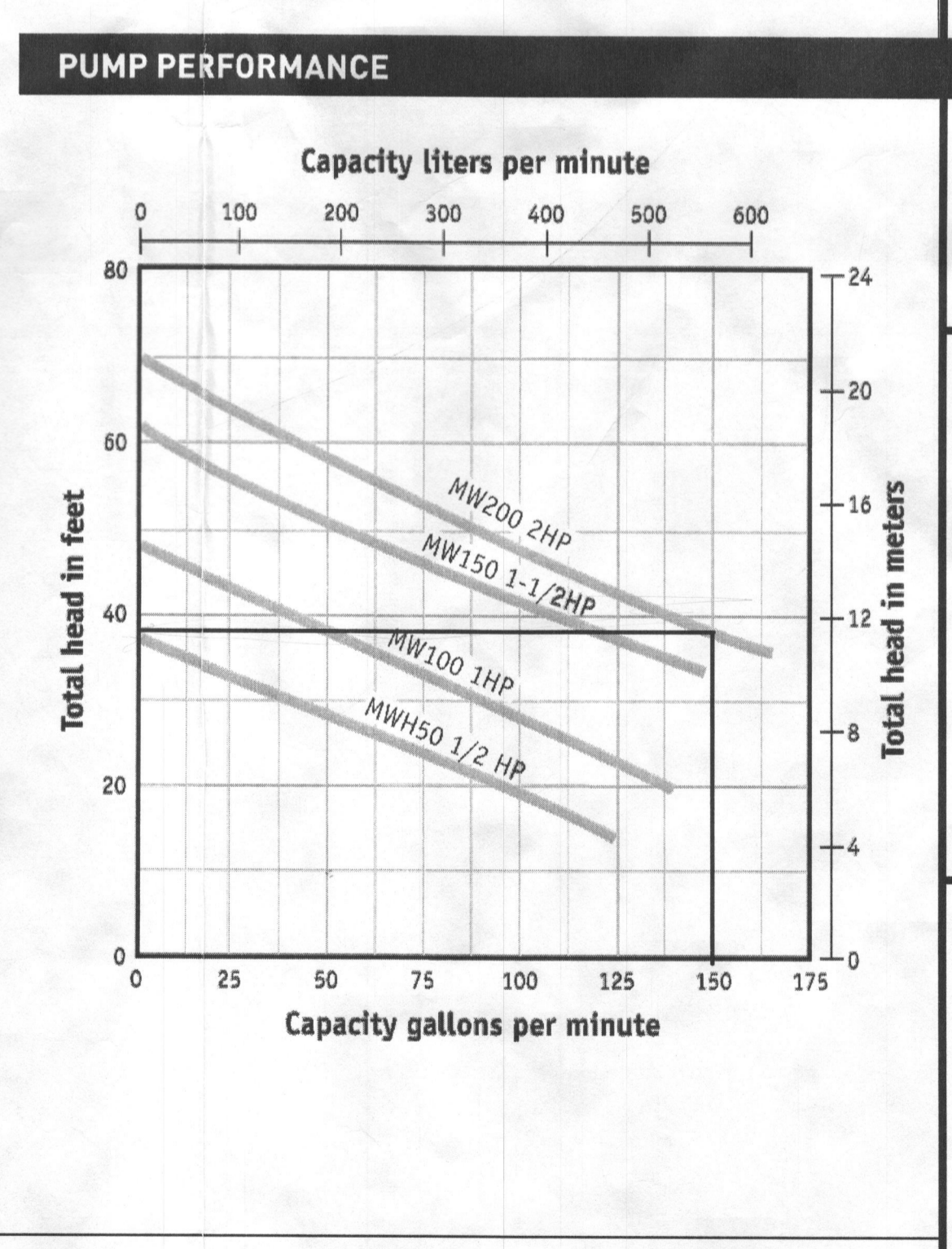
SEWAGE PUMPS

MYERS' MW SERIES

ORDERING INFORMATION

| Catalog Number | HP | Volts | Phases/Cycles | Discharge Size | Switch Type | Approx. Cord Length | Wt. Lbs. |
|----------------|-------|-------|---------------|----------------|-------------|---------------------|----------|
| MW100-01 | 1/2 | 200 | 1/60 | 2" | Manual | 20' | 84 |
| MW100-01P | 1/2 | 200 | 1/60 | 2" | Automatic* | 20' | 84 |
| MW100-01 | 1/2 | 200 | 1/60 | 2" | Automatic* | 20' | 84 |
| MW100-02 | 1/2 | 200 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-02P | 1/2 | 200 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-03 | 1/2 | 440 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-03P | 1/2 | 440 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-04 | 1 | 200 | 1/60 | 2" | Manual | 20' | 84 |
| MW100-04P | 1 | 200 | 1/60 | 2" | Manual | 20' | 84 |
| MW100-05 | 1 | 200 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-05P | 1 | 200 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-06 | 1 | 440 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-06P | 1 | 440 | 3/60 | 2" | Manual | 20' | 84 |
| MW100-07 | 1-1/2 | 200 | 1/60 | 2" | Manual | 20' | 87 |
| MW100-07P | 1-1/2 | 200 | 1/60 | 2" | Manual | 20' | 87 |
| MW100-08 | 1-1/2 | 200 | 3/60 | 2" | Manual | 20' | 87 |
| MW100-08P | 1-1/2 | 200 | 3/60 | 2" | Manual | 20' | 87 |
| MW100-09 | 2 | 200 | 1/60 | 2" | Manual | 20' | 89 |
| MW100-09P | 2 | 200 | 1/60 | 2" | Manual | 20' | 89 |
| MW100-10 | 2 | 440 | 3/60 | 2" | Manual | 20' | 89 |
| MW100-10P | 2 | 440 | 3/60 | 2" | Manual | 20' | 89 |

*PSC only
Note: Consult factory for double seal models

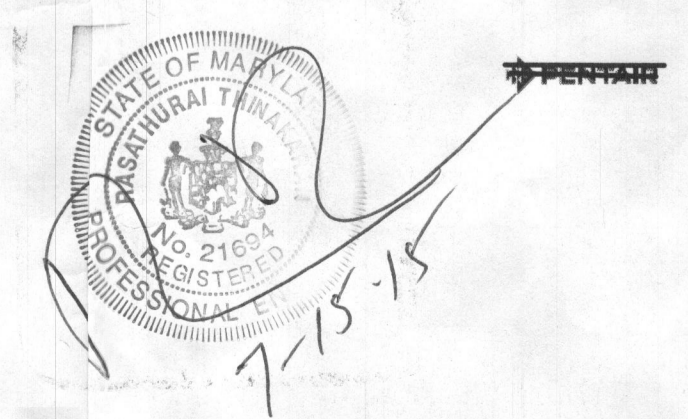


PROJECT NAME
13061 HALL SHOP ROAD
HIGHLAND
LOT 3
NICOLAR PROP EST II RSB
TAX MAP # 40
ZONING: RR-DEO
PLAT # 19650
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND

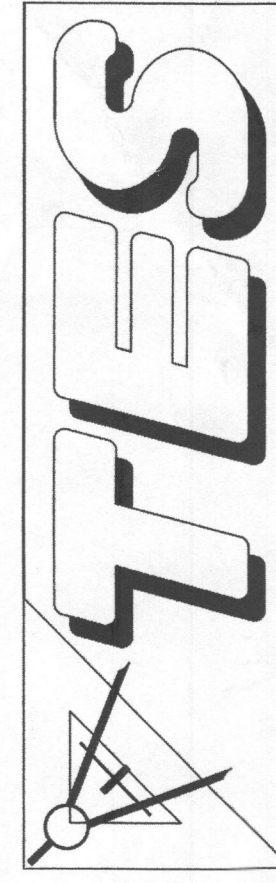
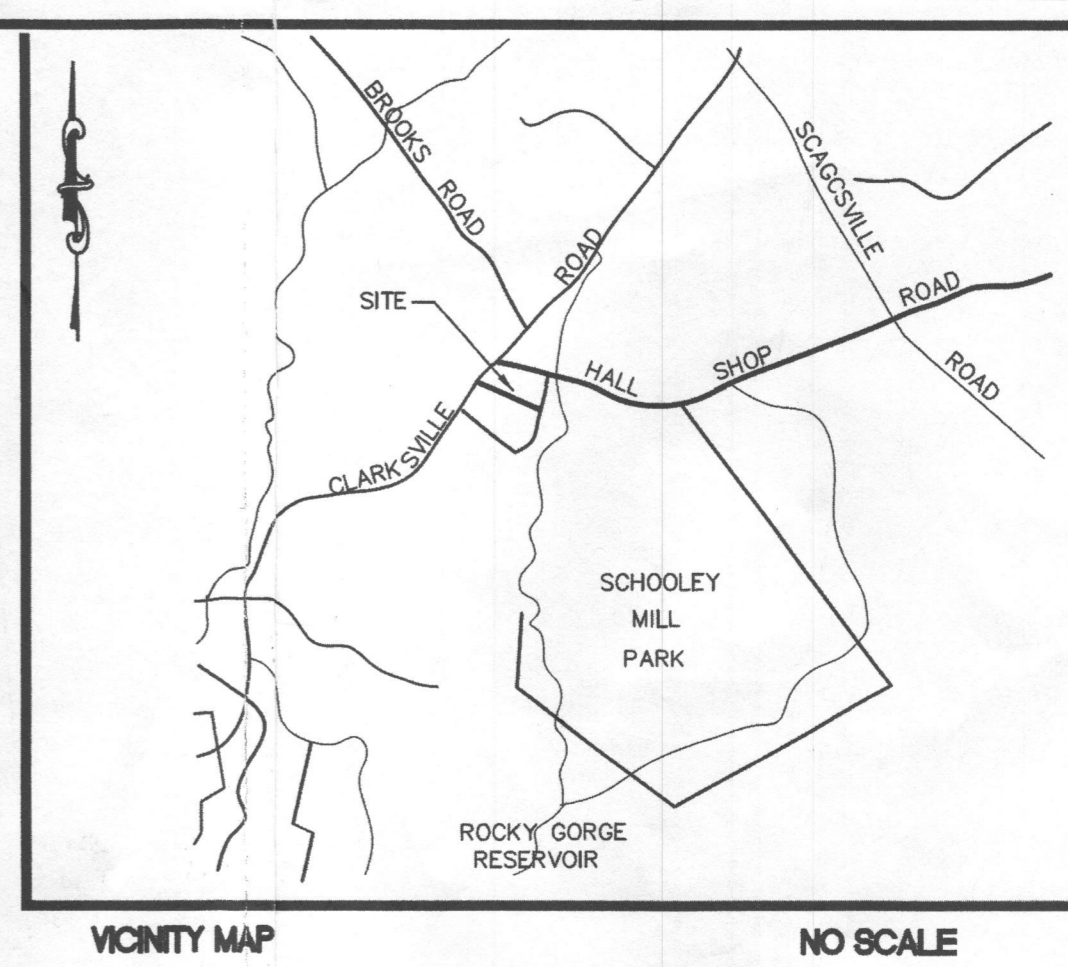
DRAWING TITLE :
SITE PLAN FOR BAT INSTALLATION

| | | |
|----------------------------------|-------------------|---------------------|
| Drawn : | Approved : | Job No. : |
| In Charge : | Project Manager : | Project Architect : |
| Scale : | Drawing No. : | |
| NONE | | |
| Date : | | |
| 05-06-15 07-01-15 07-15-15 | 2 OF 2 | |

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM"



HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT.



TOTAL ENGINEERING SERVICES
 PLANNERS, ENGINEERS, SURVEYORS
 P.O. BOX 10123
 SILVER SPRING, MD 20914
 TEL: (301) 515 1514 FAX: (301) 515 5589

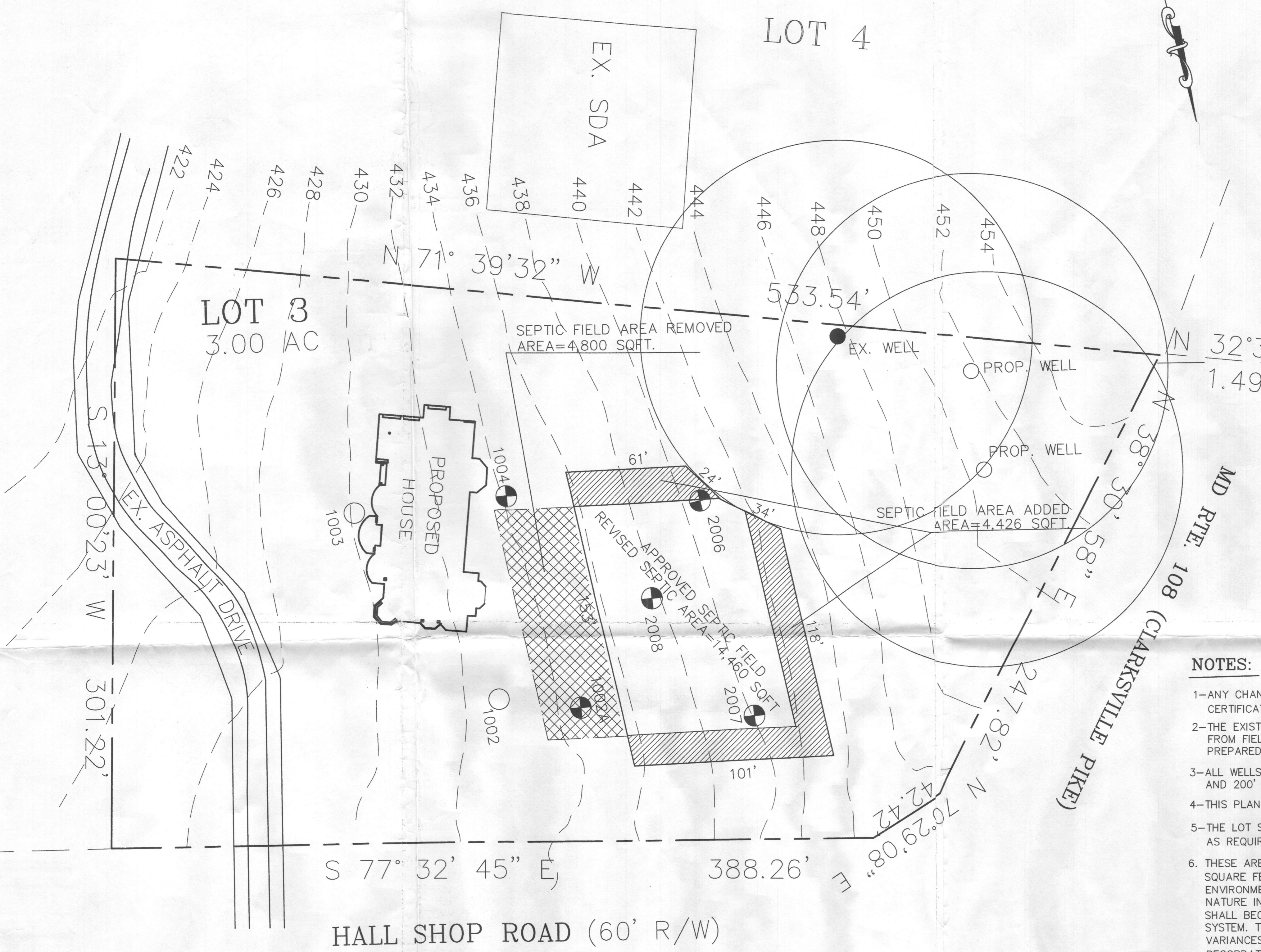
REVISION :

| | |
|----------------------|----------|
| Septic Field Revised | 11-20-14 |
|----------------------|----------|

PROJECT NAME
13061 HALL SHOP ROAD
 HIGHLAND
LOT 3
NICOLAR PROPERTY ESTATES
 PLAT No. 19650
 HOWARD COUNTY, MARYLAND

DRAWING TITLE :
REVISED SEPTIC FIELD AREA
PROPOSED 2 WELL LOCATION

| | | |
|-------------|-------------------|---------------------|
| Drawn : | Approved : | Job No. : |
| In Charge : | Project Manager : | Project Architect : |
| Scale : | Drawing No. : | |
| 1" = 30' | 1 OF 1 | |
| Date : | 11-20-14 | |



LEGEND

Septic Area to be Removed

Septic Area to be Added

- NOTES:**
- 1-ANY CHANGES TO A PRIVATE SEWAGE SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN
 - 2-THE EXISTING TOPOGRAPHY WITHIN THE AREA OF PROPOSED WORK IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOURS INTERVALS PREPARED BY T.E.S. CONSULTANT LLC .
 - 3-ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
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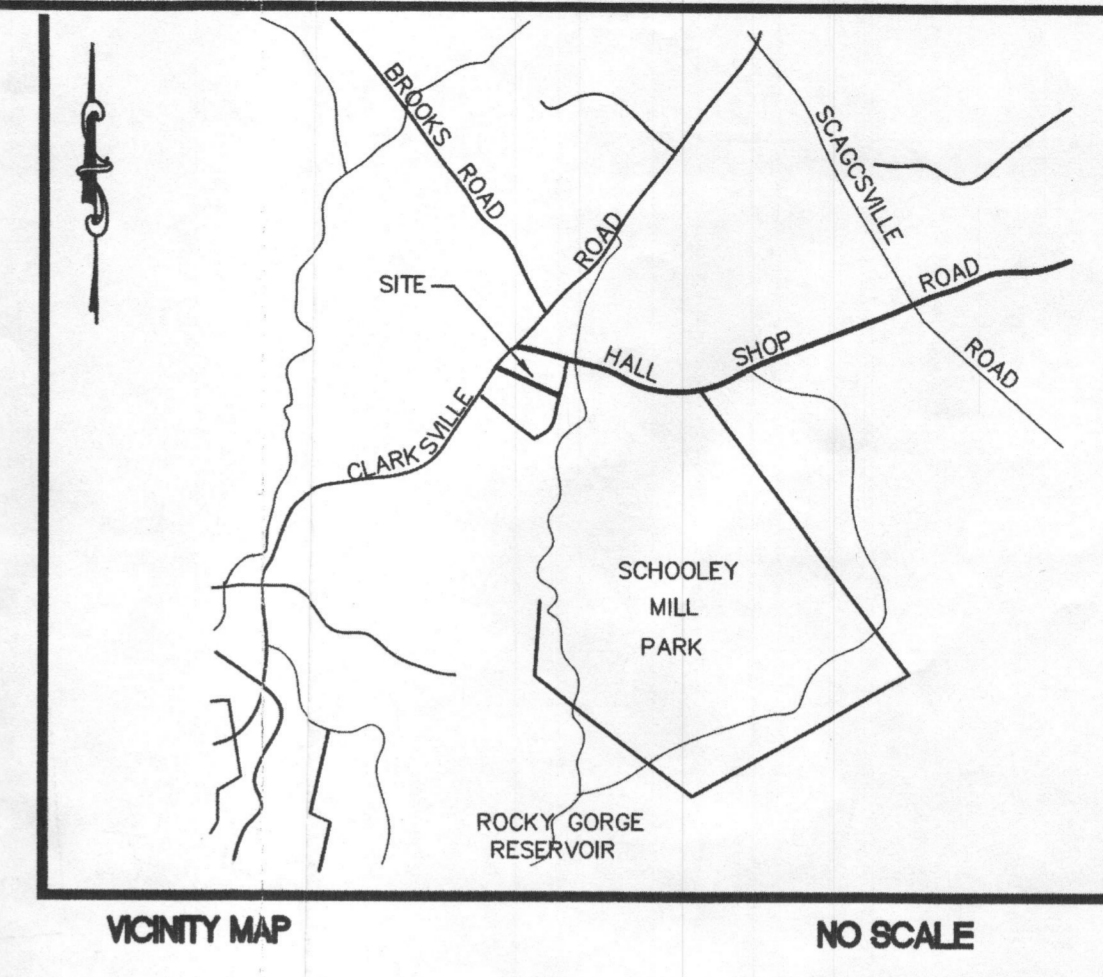
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Rasathuraj Thinkaran 11-20-14
 Rasathuraj Thinkaran PE

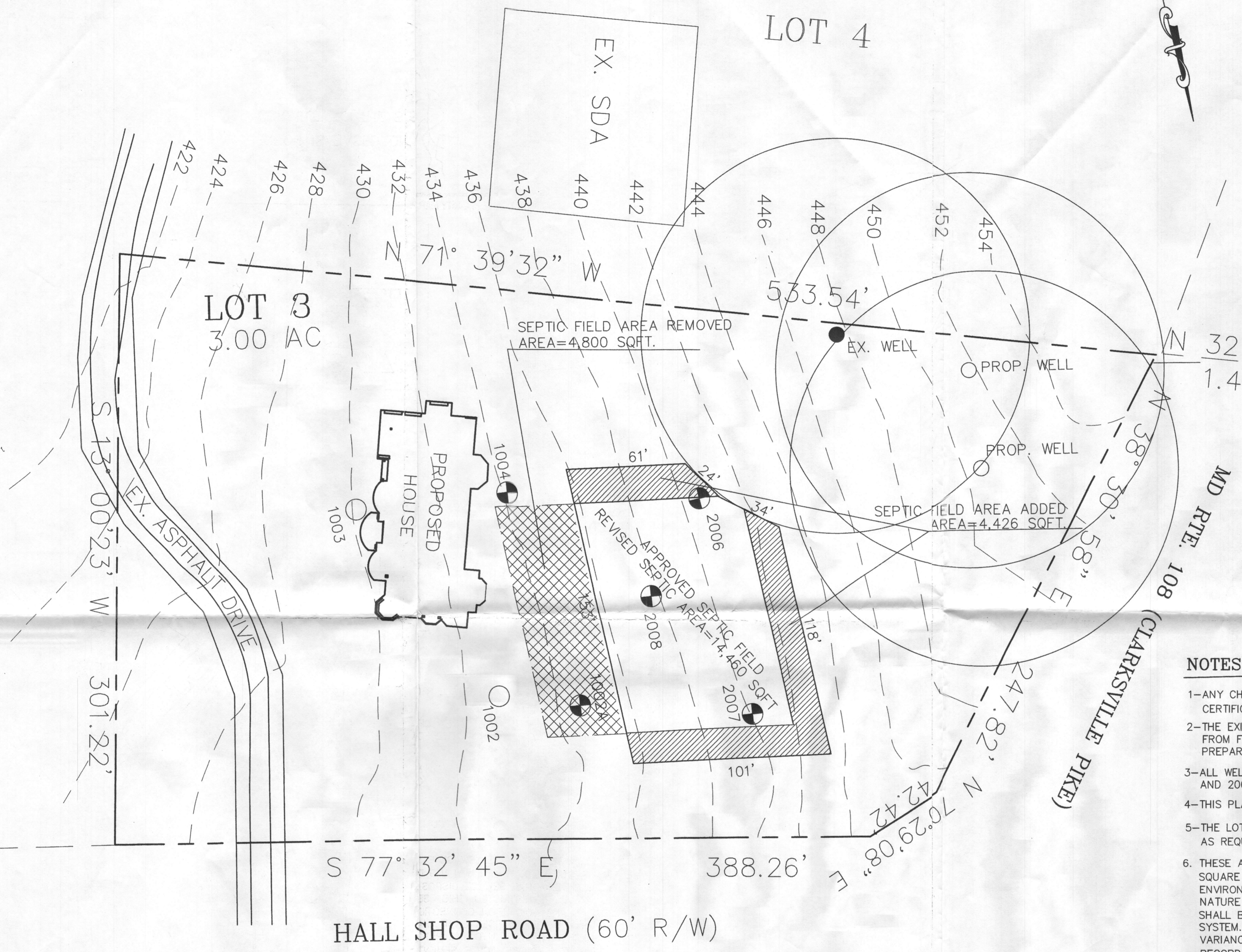
"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM"

B. Wilson for Mauna Rossman
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. *BW* DATE: 12/17/2014

Owner:
 Rukshana Raliq
 7307 Trappe Street
 Fulton, MD 20759
 443-791-7553



TIES
TOTAL ENGINEERING SERVICES
 PLANNERS, ENGINEERS, SURVEYORS
 P.O. BOX 10123
 SILVER SPRING, MD 20914
 TEL: (301) 515 1514 FAX: (301) 515 5589



LEGEND

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REVISION :

| | |
|----------------------|----------|
| Septic FEILD REVISED | 11-20-14 |
|----------------------|----------|

PROJECT NAME
13061 HALL SHOP ROAD
 HIGHLAND
LOT 3
NICOLAR PROPERTY ESTATES
PLAT No. 19650
 HOWARD COUNTY, MARYLAND

DRAWING TITLE :
REVISED SEPTIC FIELD AREA
PROPOSED 2 WELL LOCATION

| | | |
|-------------------|------------------------------|-------------------|
| Drawn : | Approved | Job No. |
| In Charge | Project Manager | Project Architect |
| Scale 1" = 30' | Drawing No. 1 OF 1 | |
| Date | 11-20-14 | |

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[Signature] 11-20-14
 Rasathurat Thinakaran PE

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM"

[Signature] for Maureen Rossman
 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. *[Signature]* DATE: 12/17/2014

Owner:
 Rukhshana Raqiq
 7307 Trappe Street
 Fulton, MD 20759
 443-791-7553