

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: 11/28/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 564078
 APPROVAL DATE: 08/16/2019 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 16645 FREDERICK ROAD
 SUBDIVISION: TAX MAP 7, PARCEL 61 LOT: ---- TAX ID: 04-323777
 CONTRACTOR: MATTHEW NICHOLS (James Harrison*) EMAIL: matt@nicholsbuilder.com
 CONTRACTOR ADDRESS: 14148 HOWARD ROAD, DAYTON, MD 21036 PHONE: (410)707-6255
 PROPERTY OWNER: MATTHEW AND JEANNE NICHOLS EMAIL: matt@nicholsbuilder.com
 OWNER ADDRESS: 14148 HOWARD ROAD, DAYTON, MD 21036 PHONE: (410)707-6255
 SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: BABYLON
 PUMP MODEL: GOULDS WS03B PUMP SIZE 0.3 hp PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.6

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>333</u> | INLET DEPTH: <u>2.0</u> |
| | TRENCH WIDTH: <u>3</u> | MAXIMUM BOTTOM DEPTH: <u>2.5</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>9</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>2.0</u> |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. | |
| NOTES: | CALL BUREAU OF ENVIRONMENTAL HEALTH, (410)313-1771, TO SCHEDULE PRE-CONSTRUCTION INSPECTION. A PUMP AND ALARM TEST MUST BE CONDUCTED AND APPROVED BY THE ATTENDING ENVIRONMENTAL SAINTARIAN FOR FINAL APPROVAL OF THIS PERMIT. | |

ISSUED BY: R BRICKER ISSUE DATE: 11/28/18 EXPIRATION DATE: 11/28/19

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 = ELECTRICAL PERMIT ISSUED E 18005069
- 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.

*J.V. Harrison Backhoe + Septics LLC
 4717 Old Washington Road
 Sykesville, MD 21784
~~410 461 9282~~
 301 478 6652

Fogle's Septic Clean Inc.

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



July 24, 2018

Howard Co Dept of Environmental Health
8930 Stanford Blvd
Columbia, Md 21045

To Whom it may concern,

On July 20th 2018 Fogle's Septic Clean Inc, crushed and filled in to abandon 1 septic tank and 1 drywell located at 16645 Frederick Rd in Mt Airy, for Matt Nichols. 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.

FOGLE'S SEPTIC CLEAN, INC.

580 Obrecht Road • Sykesville • Maryland 21784
(410) 795-5670



SEPTIC EVALUATION

| | | |
|---|--------------------------------|---|
| <input checked="" type="checkbox"/> Buyer / <input type="checkbox"/> Seller | Date: 3/16/2017 Time: 12pm | Occupied? <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No |
| Client: Matt Nichols | Ordered By: Matt Nichols | If vacant, how long? 5yr |
| Property Address: 16645 Frederick Rd. Mt Airy, MD 21771 | Phone: 410 707-6255 | Last pumped: |
| | email: mattnichols@builder.com | Property age: 1924 / 40yr |
| | Weather: | System age: |
| | Ground Conditions: | |

| | |
|--|--|
| Liquid level: <input type="checkbox"/> Above Normal / <input checked="" type="checkbox"/> Normal / <input type="checkbox"/> Below normal | Depth of tank: 16" |
| Maintenance Appears: <input checked="" type="checkbox"/> Good / <input type="checkbox"/> Fair / <input type="checkbox"/> Poor | Access to tank: 6" x 10" |
| Effluent Filter present? <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No | Pump system: <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No |

| Type of Tank | Tank Composition & Size | Type of Absorption System |
|--|--|---|
| <input checked="" type="checkbox"/> Septic Tank (1 tank) | <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Unknown | <input type="checkbox"/> Drainfield |
| <input type="checkbox"/> Cesspool | Tank Size: 1000g | <input checked="" type="checkbox"/> Drywell |
| <input type="checkbox"/> Aeration System | Baffles intact? <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No * | <input type="checkbox"/> Sandmound |
| <input type="checkbox"/> Other: | Outlet is missing | <input type="checkbox"/> Other: |

| Inspected System Appears: | Inspector's Comments | Sketch of System |
|--|---|------------------|
| <input type="checkbox"/> Functional <input type="checkbox"/> Marginal <input checked="" type="checkbox"/> Unsatisfactory | Septic is down due to vacancy. Inlet and outlet pipes are pvc. Drywell has approx 8' of liquid depth remaining. Outlet baffle is missing and needs to be replaced. approx cost \$300. | |
| Inspector: | | |
| Signature: K. Carroll | | |
| Inspection Fee: 250- | | |
| Water Test: 200- | | |
| Amount Due: 450- COD. | | |
| Date Paid: | | |
| Check # | | |

IMPORTANT:

- This is a subjective and visual inspection only, based upon many unknown and unseen factors.
- The condition of the Sewage Disposal system is reported as of the above date.
- This report does not WARRANT nor GUARANTEE continued functional Sewage Disposal System operations.
- If house has been unoccupied, this report may not be accurate. Little or no use of the septic system could have allowed the problems to temporarily clear themselves.
- If a larger family is moving in than is presently occupying the house, the septic system may be subject to failure.
- If the general ground condition is wet, this report may not be accurate, as ground moisture may cover or hide actual septic effluent on the surface.
- In the above cases, it is strongly suggested that the septic system be re-certified in 3 to 6 months.
- If the system is rated below as marginal or unsatisfactory, it is suggested that the local health department be contacted to inspect and confirm the findings.

Payment for this inspection signifies understanding and acceptance of above clauses.

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 113308 Account #: 1931
Reference: Matt Nichols Company: Fogles Septic
Location: 16645 Frederick Road Requested By: Kim Fogle
Mount Airy, MD 21771 Source: Well Water
Date/ Time Collected: 3/16/2017 1200 Site: Kitchen Sink Tap
Date/Time Rec'd: 3/16/2017 1530 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.1
Collected By: K.Cassell 7398KC Well #: N/A

| PARAMETERS | RESULTS | UNITS | REFERENCE | METHOD | DATE/TIME/ANALYST |
|--------------------------------|---------|-------------|-----------|--------------------|----------------------------|
| Bacteria, Coliform, Total, MPN | >200.5 | MPN/ 100 ml | <1.0 | SM18 9223 | 3/17/2017 / 1010 / EVP/LLO |
| Bacteria, E. coli, MPN | <1.0 | MPN/ 100 ml | <1.0 | SM18 9223 | 3/17/2017 / 1010 / EVP/LLO |
| Nitrate | 3.15 | mg/L | 10 | 601 | 3/16/2017 / 1600 / CRS |
| Turbidity | 6.70 | NTU | <10 | SM18 2130B | 3/16/2017 / 1620 / CRS |
| Sand | NS | mg/L | 5 | Visual/Gravimetric | 3/16/2017 / 1620 / CRS |

NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND = None Detected; N/A: Not Available
- 7 Sample collected by client, analyzed as received
- 8 pH and Chlorine level tested in lab

Reason for Test : Real Estate

Date Reported: 3/17/2017

Proposal

Fogle's Septic Clean, INC

Fogle's Well Pump & Water Treatment, LLC

580 Obrecht Road · Sykesville, MD 21784 · Phone (410) 795-5670 · Fax (410) 795-3432

| | | |
|-------------------------------------|---|----------------|
| Proposal Submitted To: Matt Nichols | Phone: 410-707-6255 | Date: 6/5/2018 |
| Email: matt@nicholsbuilder.com | | |
| Street: | Job Name: 16645 Frederick Rd Mt. Airy, MD | |
| City, State and Zip Code: | Job Location: | |
| Permit #: | Notes: | |

Proposal info: Well Casing Repair

Raise steel casing about 3' to bring up to county code. Break up concrete ring around well. Chlorinate well, run water through house. Techs will leave run off instructions and chlorine testing tablets to let you know when chlorine is out of water. Install new 2-piece bug proof well cap. (1) Bacteria Re-Test (Once chlorine has been run out of water)

TOTAL: \$1,200

Water sample was failing at greater than 200 for bacteria coliform. Results need to be less than 1 to be passing. The well chlorination is included in the pricing given above.

Additional: Please note- Sometimes it takes more than 1 chlorination to get a passing water sample.

Well chlorination- \$200

Bacteria Re-Test- \$150

NOTE: Chlorine run off takes on average 2-5 days

Military Service Affidavit:

I, _____ am in the military service. Branch _____ ID# _____

I, _____ am not in the military service.

_____ Date of Birth (MM/DD/YYYY) _____

Signature of Affidavit _____ Date (mm/dd/yyyy) _____

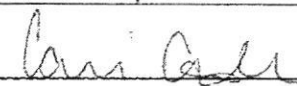
Exclusions: rock removal, cleaning, final grading, seed and straw, any damage to driveway or shrubbery due to the use of heavy equipment and trucks, extra dirt for/ damage to settling at a later date. Fogle's is not responsible for damage to private utility lines, we will call Ms. Utility to mark public utility lines but the homeowner is responsible to mark any private utility lines. We are not responsible for the working conditions of the septic system due to the design by the Health Department.

We Propose hereby to furnish material and labor-complete in accordance with above specifications for the sum of: _____ dollars (\$ _____)

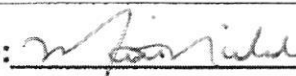
Payment to be made as follows:

Due within 30 days from the date of invoice. A finance charge of 1 ½% per month (18% A.P.R.) due on all balances over 30 days. If account is overdue & goes into collection, you will be responsible for collection fees, court costs and attorney fees 25%

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written order, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents or delays beyond our control. Owner is to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature: 
Notice: This proposal may be withdrawn if not accepted within 60 days

Acceptance of Proposal: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: 
Signature: _____

(SEAL)

If proposal accepted by Business or Corporation Signature of Individual Responsible

Date of Acceptance: 6-5-18



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

Twitter: HowardCoHealthDep

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

INFORMATION FORM - SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- Reason for Request:
- [] Failing System
- [] System relocation for proposed addition
- [x] System upgrade for proposed addition
- [] Inadequate treatment zone
- [] Collapsed septic tank
- [] Collapsed drywell

Has the septic tank been pumped within the last month?

- Has the septic tank been pumped within the last month?
- [] Yes Date pumped: Fugler advised empty
- [x] No

Was a visual inspection of the septic tank and/or drain fields conducted?

- Was a visual inspection of the septic tank and/or drain fields conducted?
- [x] Yes Explain observations: Fugler
- [] No

Existing system design

- Existing system design
- [x] Drywell
- [] Trench
- [] Mound
- [] Unknown
- [x] Other: 1000 gallon tank

Was a visual inspection of the sewage line conducted?

- Was a visual inspection of the sewage line conducted?
- [x] Yes
- Blockage leading to the tank
- [] Yes Explain: Fugler
- [] No

Blockage leading to the field

- Blockage leading to the field
- [] Yes Explain:
- [x] No

Is discharge surfacing on the ground?

- Is discharge surfacing on the ground?
- [] Yes
- [x] No

[] No

Additional Comments:

*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: Fugler Contractor's Phone:
Contractor's Address:

Property Address: 16645 Frederick Rd County file:

Subdivision: Lot: Year Built: 1974

Owner's Name: Matt Nichol Owner's Phone: 410-707-6255

Name of previous owners: Existing bedrooms: 4 Proposed bedrooms: 4

Has this request been previously discussed with a Sanitarian? (Name): Robert Bricker
Public Sewer available/nearby:

*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.
Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.
Print out a copy of Real Property Data via Dept. of Taxation website Indexed file found
If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering.
If sewer is available and the property is within the Metropolitan District, connection to sewer is required. If the owner believes reason for exemption exists, the owner should justify the request in writing.
If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.
No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.



HOWARD COUNTY HEALTH DEPARTMENT

64078

DATE 11 / 28 / 10

Received From

Matthew N. ...

PHONE #

25
116 707 6255

For

Septic Permit - 116445 Frederick Road

CASH

CHECK

NO.

111

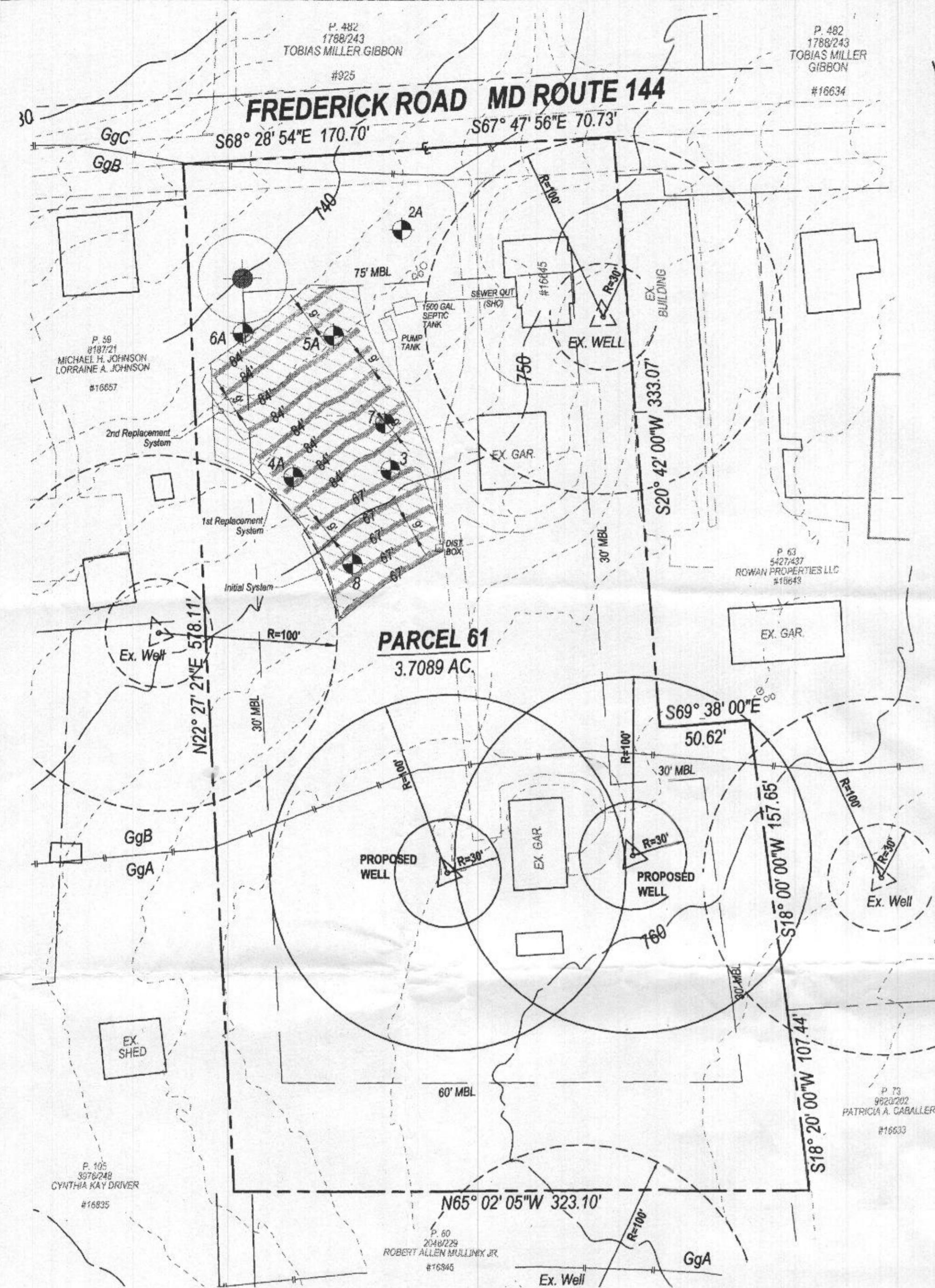
Three hundred ninety six ⁰⁰/₁₀₀ Dollars

\$

396 | 00

Received By

[Signature]

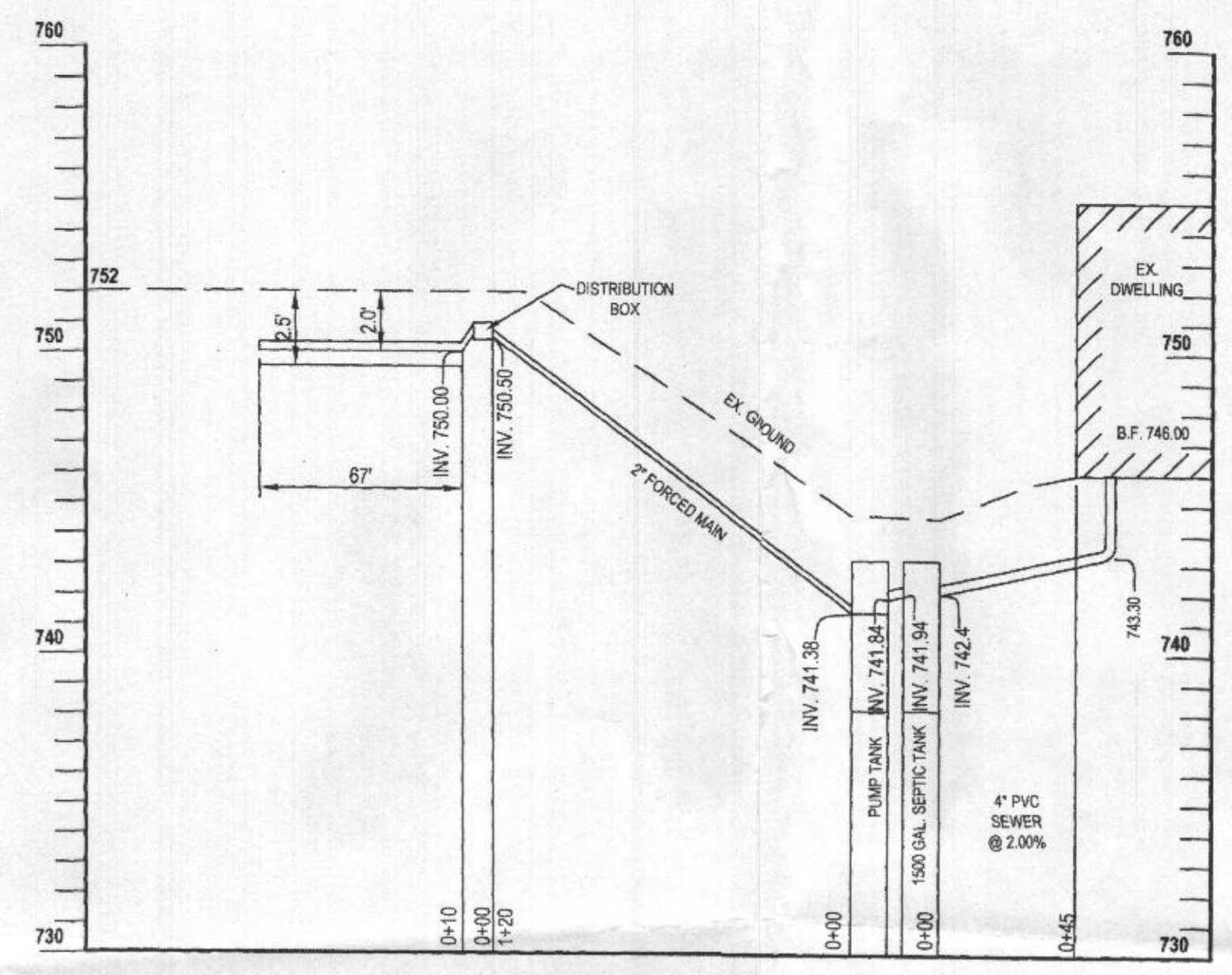


4 BEDROOM DESIGN
 Design flow - 150 Gal./Br.
 4br. x 150 Gal. = 600 Gal. = Design Flow
 Application Rate of 0.6
 DF + AR =
 600 + 0.6 = 1,000 Sq. Ft. of Drain Field

Sidewall Reduction Credit
 None

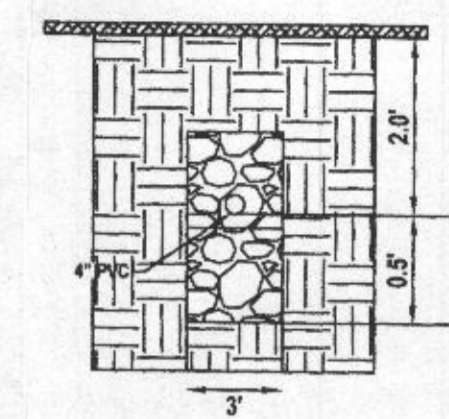
Length of Trench
 DF Sq. Ft. = 1,000 ÷ 3 =
 333 Ft. Length of Trench
 (Each System)

All Trenches are 3' Wide - 9' Between Trenches
 Requires an: Initial System : (5) Trenches - 67' Ft.
 Replacement #1 : (4) Trenches - 84' Ft.
 Replacement #2 : (4) Trenches - 84' Ft.

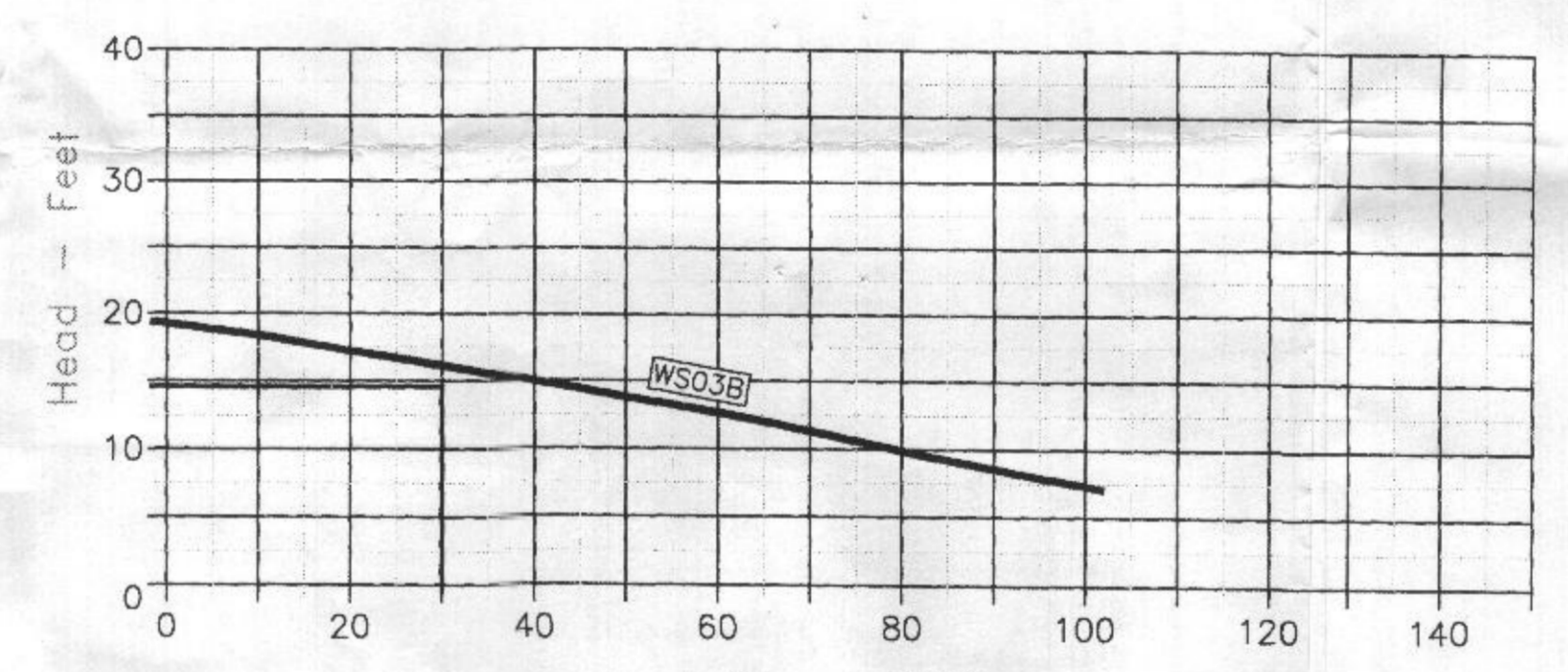
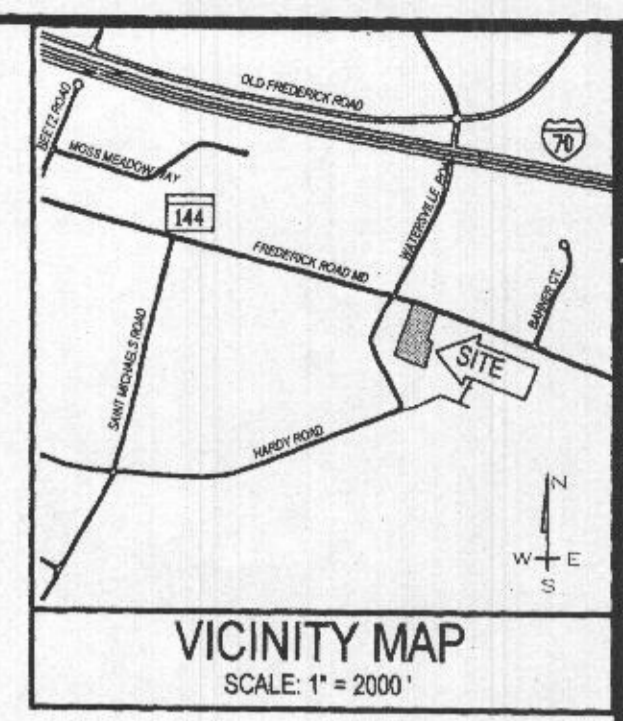


SEPTIC INSTALLATION SYSTEM PROFILE
 SCALE: HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

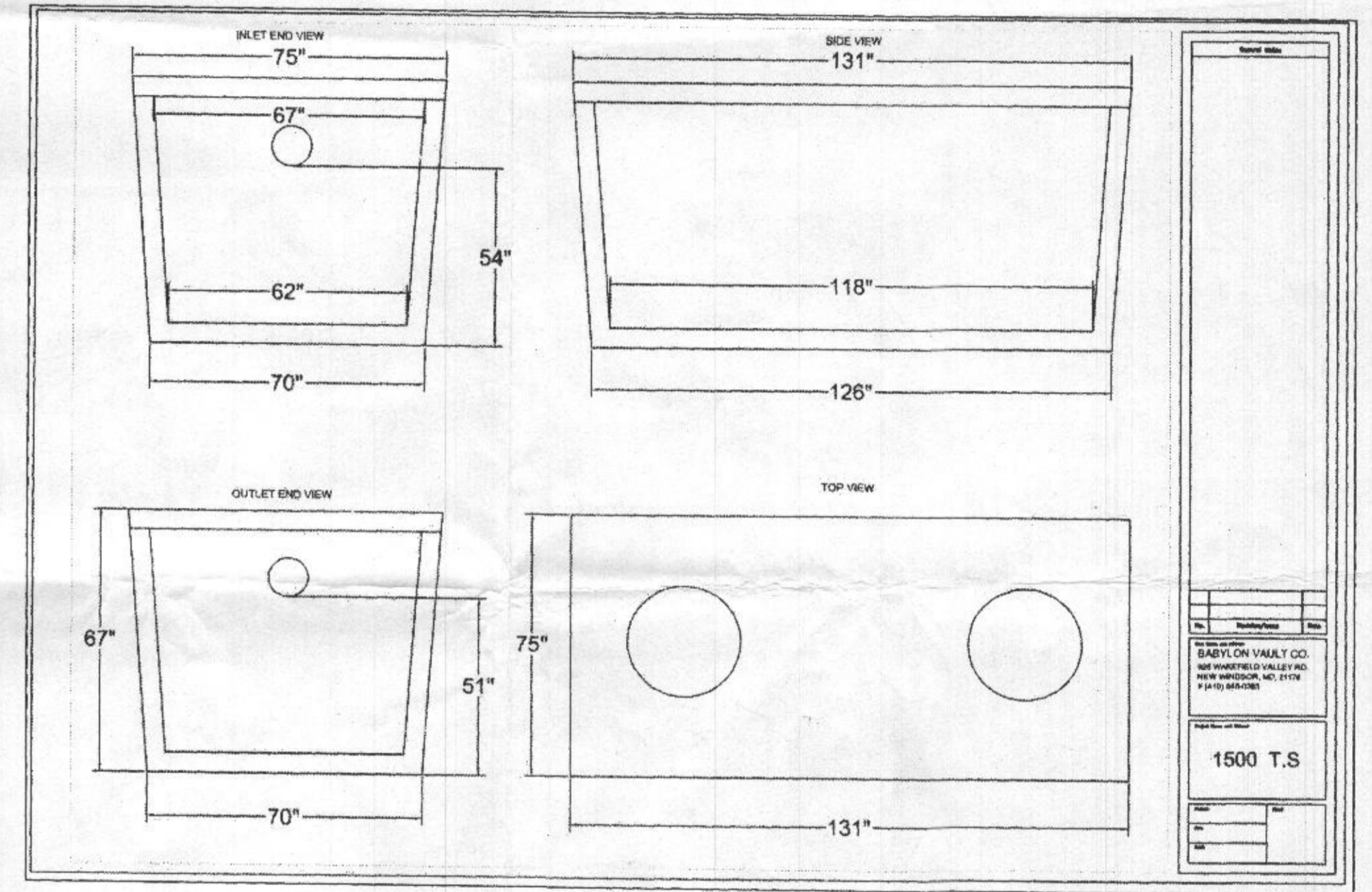
| Trench# | Trench Length | Inv. of Pipe at trench | Elevation bottom of trench | Existing Ground |
|---------|---------------|------------------------|----------------------------|-----------------|
| 1 | 67 ft. | 750.0' | 749.5' | 752.0' |
| 2 | 67 ft. | 749.4' | 748.9' | 751.4' |
| 3 | 67 ft. | 748.8' | 748.3' | 750.8' |
| 4 | 67 ft. | 748.2' | 747.7' | 750.2' |
| 5 | 67 ft. | 747.6' | 747.1' | 749.6' |



INITIAL SYSTEM AND 1ST REPLACEMENT TRENCH DETAIL
 NOT TO SCALE



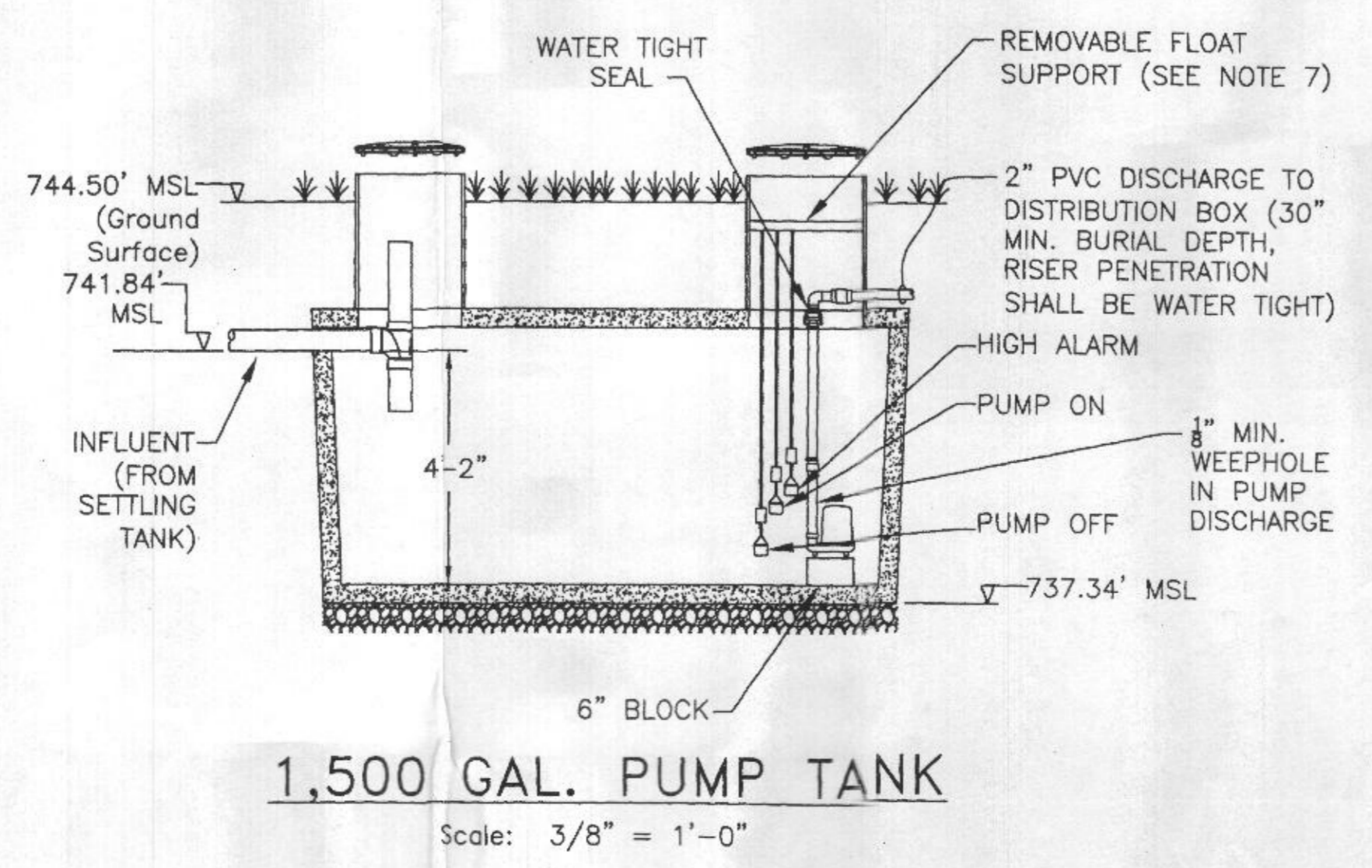
DOSE PUMP CURVE
GOULDS WS03B
 (or Equivalent)



| | |
|-----------|----|
| DATE | BY |
| 1500 T.S. | |

| Residential Pump Tank Design | | | |
|---------------------------------|--|---------------------------------------|---|
| Design Flows | no. bedrooms | 4 | average daily flow (gpd) |
| | unit flow (gpd) | 150 | total maximum daily flow (gpd) |
| Pump to Distribution Box | distribution box elevation (feet msl) | 750.5 | total flow (gpm) |
| | pump tank ground surface elevation (feet msl) | 744.5 | static head (feet) |
| | pump tank inlet invert elevation (feet msl) | 741.84 | force main friction loss (feet) |
| | distributing pump elevation (feet msl) | 738.70 | total dynamic head (TDH, feet) |
| | force main length (feet) | 125 | main cleansing velocity (feet/second) |
| | force main inside diameter (2" dia sch40PVC, in) | 2.067 | main volume (gallons) |
| dose pump selection: | Gooulds WS03B 0.3hp | | |
| | 30 gpm @ 14.3 feet TDH | | |
| Pump Tank | tank internal length (inches) | 120 | tank capacity beneath inlet (gallons) |
| | tank internal width (inches) | 64 | tank capacity in gallons per inch |
| | tank internal height to inlet invert (inches) | 50 | equalization above high water alarm float (gal) |
| | demand dose pump floats | | low water settling volume (gallons) |
| | F53 - high alarm | 36 | planned dose volume (gallons) |
| | F52 - pump on | 30 | daily doses @ maximum daily flow |
| | F51 - pump off | 26 | approximate pump run time (minutes) |
| | demand dose alarm floats | | |
| | F53 - high alarm | 740.32 | |
| | F52 - pump on | 740.17 | |
| | F51 - pump off | 739.84 | |
| Notes | calculated values in <i>italics</i> | friction C factor for plastic pipe | 130 |
| | gpd = gallons per day; gpm = gallons per minute | MDF = maximum daily flow (2x average) | |

DESIGN CRITERIA



1,500 GAL. PUMP TANK
 Scale: 3/8" = 1'-0"

PUMP TANK SPECIFICATIONS

- Tanks shown are selected by volume, manufacturers may be used such that the tanks meet the following minimum criteria:
- Concrete: 5,000 psi
 - Tanks designed for Non-Traffic Loading.
 - Tank walls, floors and lids are 4" thick (min).
 - Tanks shall be bedded in 6" of gravel.
 - Top of Tanks shall have less than 3' of cover.
 - Tanks and all wall and riser penetrations shall be watertight.
 - A "Float Tree" may be used in lieu of Removable Float Support.
 - Tank dimensions shall be in accordance with those specified in the Design Criteria table and tank section view.
 - Force main must drain back to pump tank through weep hole after dose cycle without siphoning from distribution box.

| DATE | REVISIONS | BY |
|--------|-----------------------------|-----|
| 8-2-18 | REVISED PER COUNTY COMMENTS | MDM |
| 9-3-18 | REVISED PER COUNTY COMMENTS | MDM |
| 6-8-19 | REVISED PER COUNTY COMMENTS | MDM |
| 7-1-19 | REVISED PER COUNTY COMMENTS | MDM |

OWNER / DEVELOPER
 MATTHEW J. NICHOLS
 JEANNE D. NICHOLS
 16645 FREDERICK RD.
 MOUNT AIRY, MD 21771-3311

GENERAL NOTES

- Any changes 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 earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
 - Electrical work for the installation must be performed by a licensed electrician.
 - The existing well has been field located and is accurately shown.
 - 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.
- This area designates a private sewage area for three (3) systems as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. This area 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 area. Recordation of a modified sewage area shall not be necessary.

ON-SITE SEWAGE DISPOSAL PLAN
16645 FREDERICK ROAD
 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP - 7 GRID - 3 PARCEL - 61

| | |
|-----------|----|
| DATE | BY |
| 1500 T.S. | |

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

Date: August 1, 2018 Scale: 1" = 50' Sheet 1 of 1

Licensed Maryland Surveyor either personally prepared the Survey 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.