

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/hccohealth

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

RECEIPT DATE: 10/31/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 5 62316
 APPROVAL DATE: 10/31/17 **PERMIT: CONSTRUCTION** A
 PROPERTY ADDRESS: 12050 Hall Shop Rd.
 SUBDIVISION: Wise Property LOT: TAX ID: 05372895
 CONTRACTOR: Earl E Preston Jr. Inc. EMAIL: _____
 CONTRACTOR ADDRESS: 4045C Federal Hill Rd. Jarrettsville MD, 21084 PHONE: 410-557-8100

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Eleanor & Michael Wise EMAIL: _____
 OWNER ADDRESS: 12050 Hall Shop Rd. PHONE: _____

BAT UNIT MODEL: Norweco TNT 500 PUMP SIZE: 0.5HP PUMP TANK CAPACITY: 1000

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: DATE RECORDED:

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: U.S

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>165</u> | INLET DEPTH: <u>4</u> |
| | TRENCH WIDTH: <u>2</u> | MAXIMUM BOTTOM DEPTH: <u>7</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>10</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>4</u> |

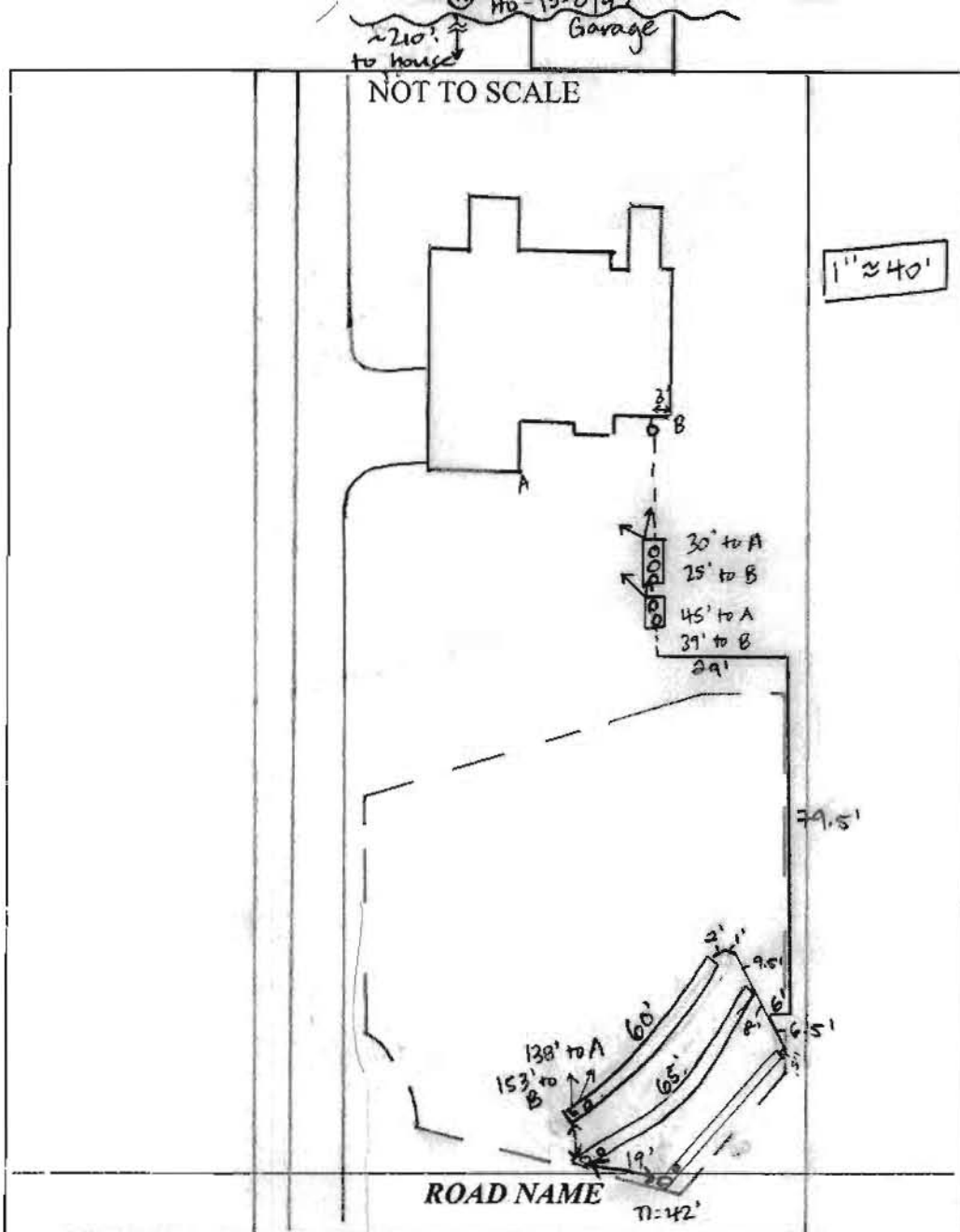
LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES: **LPD Design consisting of 3 trenches – 40LF, 65LF, & 60LF. Refer to plan for more details.**

ISSUED BY: Robert Freeman ISSUE DATE: 10/31/17 EXPIRATION DATE: 10/31/18

- 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 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 17004532
- 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.**



| TRENCH/DRAINFIELD DATA | | |
|-------------------------|----------|--------|
| WIDTH | INLET | BOTTOM |
| 2' | 4' | 7' |
| NUMBER OF TRENCHES | 3 | |
| TOTAL LENGTH | 165' | |
| ABSORPTION AREA | 330 sqft | |
| DISTRIBUTION BOX LEVEL | N/A | |
| DISTRIBUTION BOX BAFFLE | N/A | |
| DISTRIBUTION BOX PORT | N/A | |

| SEPTIC TANK DATA | |
|------------------------|--------------------|
| SEPTIC TANK I LEVEL | YES |
| MANUFACTURER | BACKRIVER/NORWELCO |
| CAPACITY | 1300 GAL |
| SEAM LOC | TOP |
| TANK LID DEPTH | 1-2' |
| BAFFLES | NO |
| BAFFLE FILTER | NO |
| MANHOLE LOC | FRONT, MID, REAR |
| 6" PORT LOC | NONE |
| WATERTIGHT TEST | NO |
| SLOTTED | NO |
| DATE ON LID | 8-23-17 (STAMP) |
| PUMP/SEPTIC TANK LEVEL | YES |
| MANUFACTURER | BABYLON |
| CAPACITY | 1000 GAL |
| SEAM LOC | TOP |
| TANK LID DEPTH | 2-2.5' |
| BAFFLES | NONE |
| BAFFLE FILTER | NO |
| MANHOLE LOC | FRONT + REAR |
| 6" PORT LOC | NONE |
| WATERTIGHT TEST | NO |
| SLOTTED | NO |
| DATE ON LID | 10-7-17 |
| Pump | 1/2 hp Gould's |

PRE-CONSTRUCTION:
 11/13/17 Met contractors on site for layout. SDA corner stakes present, trenches + tanks not staked. Engineer must stake trenches + tanks prior to layout. (SC) 11/15/17 SDA, trenches, + tanks staked. Shot contour + adjusted trenches to minimize electric line crossings. Pump tank will have 3' of cover - traffic-bearing lid not needed. (SC)

INSTALLATION: 11/16/17 Tanks set - pump tank has 2-2.5' cover. Sewer line stubbed out @ foundation. (SC) 11/17/17 T1 dug + lateral installed, left open @ ends for inspection. 2' wide, 3.5' to stone. Needs observation port. Contractors digging T2 using laser, 7' bottom. Measured hole spacing of T2 lateral - 5' apart (SC) 11/20/17 Obs ports installed. Checked hydraulic head prior to back-filling Trenches. (P) 1/5/18 On site for startup. Norweco aerator runs and alarm sounds. Pump alarm sounds. Lateral head = 4' @ T3, 3.5' @ T2, 3' @ T1. Old tank pumped + filled in with clean dirt. (SC) 1/5/18 startup re-^{al}.

FINAL INSPECTOR (SC) DATE OF APPROVAL 1/5/18



BACK RIVER PRE-CAST, LLC

PO BOX 329

GLYNDOON, MD 21071

PH# 410-833-3394

NORWECO CERTIFICATION

| | |
|---|--|
| PROPERTY OWNER: Michael Wise | INSTALLATION COMPANY: Earl E. Preston, Inc. |
| ADDRESS: 12050 Hall Shop Road | CERTIFIED INSTALLER: Doug DuFour |
| CITY, ZIPCODE & COUNTY: Clarksville, MD 21029 | PERMIT# <i>P-62316</i> |
| SIZE OF SYSTEM INSTALLED: 600 GPD | DATE INSTALLED: 11-15-17 |
| | START-UP DATE: |
| NUMBER OF BEDROOMS: | DATE OF FINAL INSPECTION: |
| TYPE OF INSTALLATION: NEW | DATE OF ELECTRICAL INSPECTION: |
| ELECTRICAL WIRING PER ELECTRICAL INSTRUCTIONS: | TANK LEVEL: |
| HT. OF CONTROL PANEL ABOVE FINAL GRADE: | BURIAL DEPTH OF TANK: <i>2'</i> |
| SYSTEM WIRED ON A 15-AMP DEDICATED CIRCUIT WITH STD. BREAKER: | RISERS 4" - 6" ABOVE GRADE: <i>4"</i> |
| | |
| LENGTH(S) OF UF WIRE PAST LAST AERATION RISER(S): | VENTED LID(S) ON AERATION CHAMBER(S): <i>Yes</i> |
| FEMALE PLUG(S) WIRED TO UF WIRE: | ANY GROUND SETTLING AROUND TANK: |
| CONDUIT(S) ENTERING AERATION RISER MADE WITH A WATERTIGHT CONNECTION: | |
| IS THE INSIDE OF THE CONDUIT ENTERING THE CONTROL PANEL(S) AND AERATION RISER(S) SEALED WITH DUCT SEAL: | |

ON 2ND PAGE MAKE A ROUGH SKETCH OF THE HOUSE, WHERE THE SYSTEM IS LOCATED, WHERE THE CONTROL PANEL IS LOCATED, WHERE THE FRONT OF THE IS AND DIRECTIONS TO THE PROPERTY.

DIRECTIONS CAN START A FEW STREETS AWAY

EXAMPLE: RT. X LEFT ONTO XX STREET RIGHT ONTO PRIVATE DRIVEWAY 5TH HOUSE OF THE LEFT.

I certify that the Norweco Singulair TNT Wastewater Treatment System was installed according to the manufacture's specifications.

Doug DuFour Doug DuFour 11-15-17

Signature of CERTIFIED installer

Print Name

Date

We are an Equal Opportunity Employer

DISPATCH / SALES
301-953-8973
410-792-3753

SAVAGE STONE, LLC
SAVAGE, MARYLAND

BILLING INQUIRIES
301-953-7650
410-792-7234

INSPECTOR'S COPY

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

TICKET #01258073
STATION SS

DATE 11/15/17 TIME 11:27:48

CUSTOMER PREJER
JERRY PRESTON HAULING
P.O. BOX 300
JARRETTSVILLE, MD 21084

JOB HALSHO : HALL SHDP RD
P.O. # PROJECT #:

TRUCK EP1264 LICENSE
DRIVER: EARL PRESTON JR

0 AXLES

| | Loads | Tons |
|------------------|------------------|-------------------|
| GROSS | DAILY 1 | 20.60 |
| TARE IN (STORED) | TOTAL 1 | 20.60 |
| NET | TIME IN 11:27:48 | TIME OUT 11:27:48 |
| NET | 20.60 t | |

MAT'L 0022 : MD #2 STONE
HAUL ZONE 0000

WEIGHMASTER

Gail Harrison

RECEIVED BY



SAFETY FIRST! 5MPH PLEASE CHECK YOUR TICKET! ENJOY YOUR DAY!

We are an Equal Opportunity Employer

DISPATCH / SALES
301-953-8973
410-792-3753

SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

BILLING INQUIRIES
301-953-7650
410-792-7234

INSPECTOR'S COPY

TICKET #01258160

STATION SS

DATE 11/15/17 TIME 12:43:28

CUSTOMER PREJER
JERRY PRESTON HAULING
P.O BOX 300
JARRETTVILLE, MD 21084

JOB HALSHO : HALL SHOP RD
P.O. # PROJECT #:

TRUCK EP1264 LICENSE
DRIVER: EARL PRESTON JR

0 AXLES

| | | |
|-------|-------------|----------|
| GROSS | SCALE B | 68400 lb |
| TARE | IN (STORED) | 27860 lb |
| NET | | 40540 lb |
| NET | | 20.27 t |

| | | |
|------------------|-------|-------------------|
| | Loads | Tons |
| DAILY | 2 | 40.87 |
| TOTAL | 2 | 40.87 |
| TIME IN 12:43:28 | | TIME OUT 12:43:28 |

MAT'L 0022 : MD #2 STONE
HAUL ZONE 0000

WEIGHMASTER _____

Gail Harrison

RECEIVED BY _____

SAFETY FIRST! 5MPH PLEASE CHECK YOUR TICKET! ENJOY YOUR DAY!

DISPATCH / SALES
301-953-8973
410-792-3753

We are an Equal Opportunity Employer

SAVAGE STONE, LLC
SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

BILLING INQUIRIES
301-953-7650
410-792-7234

INSPECTOR'S COPY

TICKET #01258212

STATION 55

DATE 11/15/17 TIME 13:42:26

CUSTOMER PREJER
JERRY PRESTON HAULING
P.O BOX 300
JARRETTSVILLE, MD 21084

JOB HALSHO : HALL SHOP RD
P.O. # PROJECT #:

TRUCK EP1264 LICENSE
DRIVER: EARL PRESTON JR

0 AXLES

GROSS SCALE B 68620.1b
TARE IN (STORED) 27860 1b
NET 40760 1b
NET 20.38 t

| | Loads | Tons |
|------------------|-------|-------------------|
| DAILY | 3 | 61.25 |
| TOTAL | 3 | 61.25 |
| TIME IN 13:42:26 | | TIME OUT 13:42:26 |

MAT'L 0022 : MD #2 STONE
HAUL ZONE 0000

WEIGHMASTER _____

Ball Harrison

RECEIVED BY _____

SAFETY FIRST! 5MPH PLEASE CHECK YOUR TICKET! ENJOY YOUR DAY!

DISPATCH / SALES
301-953-8973
410-792-3753

We are an Equal Opportunity Employer

SAVAGE STONE, LLC
SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

BILLING INQUIRIES
301-953-7650
410-792-7234

INSPECTOR'S COPY

TICKET #01258280

STATION 58

DATE 11/15/17 TIME 15:02:32

CUSTOMER PREJER
JERRY PRESTON HAULING
P.O BOX 300
JARRETTVILLE, MD 21084

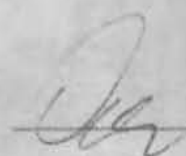
JOB HALSHD : HALL SHOP RD
P.O. # PROJECT #:

TRUCK EP1264 LICENSE 0 AXLES
DRIVER: EARL PRESTON JR

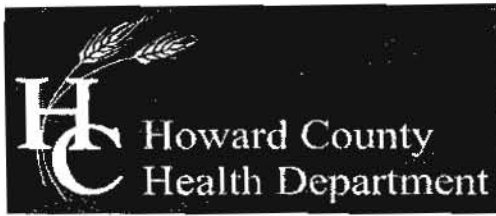
| | | | | Loads | Tons |
|-------|-------------|----------|------------------|-------|-------------------|
| GROSS | SCALE B | 65860 lb | DAILY | 4 | 80.25 (|
| TARE | IN (STORED) | 27860 lb | TOTAL | 4 | 80.25 |
| NET | | 38000 lb | TIME IN 15:02:32 | | TIME OUT 15:02:32 |
| NET | | 19.00 t | | | |

MAT'L 0022 : MD #2 STONE
HAUL ZONE 0000

WEIGHMASTER _____
Gail Harrison

RECEIVED BY  _____

SAFETY FIRST! 5MPH PLEASE CHECK YOUR TICKET! STAY BEAUTIFUL!



Bureau of Environmental Health

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Twitter: HowardCoHealthDep

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

APPLICATION FOR VARIANCE TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL

Date Submitted 9/9/16

12050 Hall Shop Road, Clarksville, Maryland 21029

Property Address

n/a Subdivision Lot 0041 Tax Map 01 Grid 0258 Parcel 05-372895 Tax Account #

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):

Percolation certification plat for replacement septic and well for new house on the subject parcel

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

- 1. How Co 3.808(d)(3) Down gradient well. Proposed well envelope is 300' below the proposed sewage disposal easement. COMAR 26.04.02.05.B(2) On-site sewage disposal system is to be located down gradient from a private well
2. How Co 3.808 (c) To allow the proposed sewage disposal easement to be located 5' from the property line (10' required) and to be located 5' from the proposed driveway (10' required). AND 5' OF THE FOUNDATION TO BE REMOVED.

Property Owner's Signature

Health Department Use Only

Reviewed by HCHD Staff Date Recommendation: [X] Recommended [] Not Recommended HCHD Supervisor Date 9/19/16

Comments/Conditions: BAT required - well steel casing 50' or 10' into competent bedrock, whichever deeper

Approved by: MDE Representative Date



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

November 23, 2016

Robert H. Vogel Engineering, Inc.
8407 Main Street
Ellicott City, MD 21043
Attn: Jeremiah Reynolds

Sent via email to: jreynolds@vogeleng.com

RE: **BAT Plan**
Wise Property
12050 Hall Shop Road

Jeremiah:

This letter is in response to the BAT Plan submitted for 12050 Hall Shop Road. Upon review of the plan, a couple of items need to be added or changed on the plan. Please revise the plan to include the following:

- 1.) Sidewall reduction credit should be 0.5 per calculation
- 2.) Change chart to the following #'s to even out discharge per linear foot in each lateral. Add row for Discharge/LF

| | Laterals | | |
|-------------------|----------|-------|------|
| | 1 | 2 | 3 |
| Trench Length | 40 | 65 | 60 |
| Lateral Length | 38 | 62.5 | 57 |
| Hole Diameter | 5/16 | 5/16 | 5/16 |
| Hole Separation | 4 | 5 | 6 |
| # of Holes | 10 | 13 | 10 |
| Discharge/Hole | 1.63 | 2.12 | 2.44 |
| Discharge/Lateral | 16.3 | 27.56 | 24.4 |
| Distal Head | 2 | 3.37 | 4.51 |
| Discharge/LF | 0.41 | 0.42 | 0.41 |

- 3.) Based on new #'s, the total lateral discharge rate = 68.26
- 4.) Pump will be WE05H
- 5.) The spacing between the beginning of trench & first hole and end of trench & last hole is half the hole spacing.
- 6.) Force main should not connect to the manifold directly across from a lateral. Change schematic.
- 7.) Show pump tank section/view with pump on/off elevations and reserve capacity
- 8.) Show lateral end turn up and observation port schematic.

Should you have any questions, please don't hesitate to ask. Also, please submit the revised perc cert plan with the notes regarding the LPD and well casing depth requirements.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S.
Bureau of Environmental Health

Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, November 23, 2016 9:39 AM
To: jreynolds@vogeleng.com
Subject: BAT Plan_12050 Hall Shop Road
Attachments: BAT Plan_12050 Hall Shop Road.pdf

Hi Jeremiah:

Attached, please find comments pertaining to the BAT Plan for 12050 Hall Shop Road. Should you have any questions, please don't hesitate to ask.

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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Twitter: HowardCoHealthDep

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

August 2, 2016

Robert H. Vogel Engineering, Inc.
8407 Main Street
E.C., MD 21043

Sent via email to: jreynolds@vogeleng.com

RE: BAT Plan
12050 Hall shop Road

Jeremiah:

This letter is in response to the BAT Plan submitted for 12050 Hall shop Road. Upon review of the plan, a couple of items need to be added or changed on the plan. Please revise the plan to include the following:

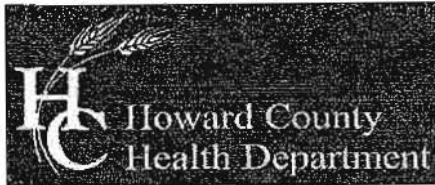
- 1.) Match trench info chart elevations with septic profile.
- 2.) Add pump curve
- 3.) Add head loss calculations and plot point on pump curve. Match corresponding dose and run time.
- 4.) Add dose and run-time for pump. Dose should be approximately 50 – 80 gallons, run-time will correspond to pump flow rate and dose
- 5.) Show 3rd system (or move initial system further up the SDA to maximize area)
- 6.) Add pump tank specs and traffic bearing lid note to plan if pump tank exceeds 3 feet in depth
- 7.) Add smaller pic of entire lot to include the well just below the larger plan

Should you have any questions, please don't hesitate to ask. I may be reached at (410) 313-1786 if you would like to discuss the project.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program



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

**APPLICATION FOR VARIANCE
 TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL**

Date Submitted 9/9/16
 12050 Hall Shop Road, Clarksville, Maryland 21029

| | | | | | |
|------------------|------|---------|------|-----------|---------------|
| Property Address | | | | | |
| n/a | 0041 | 01 | 0258 | 05-372895 | |
| Subdivision | Lot | Tax Map | Grid | Parcel | Tax Account # |

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):
Percolation certification plat for replacement septic and well for new house on the subject parcel

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

| Regulation Section | Summary and Explanation |
|------------------------------|--|
| 1. <u>How Co 3.808(d)(3)</u> | Down gradient well. Proposed well envelope is 300' below the proposed sewage disposal easement. COMAR 26.04.02.05.B(2) On-site sewage disposal system is to be located down gradient from a private well |
| 2. <u>How Co 3.808 (c)</u> | To allow the proposed sewage disposal easement to be located 5' from the property line (10' required) and to be located 5' from the proposed driveway (10' required). and 5' of the foundation to be removed. |

[Signature]
 Property Owner's Signature

Health Department Use Only

Reviewed by _____ Date _____
 HCHD Staff

Recommendation: Recommended [] Not Recommended

[Signature] _____ 9/19/16
 HCHD Supervisor Date

Comments/Conditions: BAT required
- well steel casing 50' or 10' into competent bedrock, whichever deeper
LPD Required

Approved by: [Signature] _____ 9/23/16
 MDE Representative Date



HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3430 Courthouse Drive ■ Ellicott City, Maryland 21043 ■ 410-313-2350
Voice/Relay

Valdis Lazdins, Director FAX 410-313-3467


June 29, 2017

Michel & Andi Wise
12050 Hall Shop Road
Clarksville, Maryland 21029

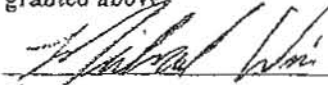
The Howard County Zoning Regulations permit only one single-family detached dwelling unit use per lot. However, this letter temporarily authorizes the construction of a new dwelling on the property located at 12050 Hall Shop Road, prior to removal of the existing dwelling ("Original Dwelling Unit"), on the condition that you comply with all provisions declared herein. This temporary authorization is only valid for six months from the date of this letter or until the issuance of the final use and occupancy permit for the new dwelling, whichever occurs first. If an extension is necessary due to delays, you must contact this Department in writing prior to the six month deadline in order to request an extension of this authorization.

Upon the issuance of either a temporary or final use and occupancy permit for the new dwelling, the Original Dwelling Unit must cease being used, and must be removed within 30 days. Failure to remove the Original Dwelling Unit as required is hereby declared to be a violation of the Zoning Regulations which will induce an enforcement action as delineated in Section 102.0.B of the Zoning Regulations. Such an enforcement action may include, but is not limited to, Civil Fines or the removal of the Original Dwelling Unit by the County at the owner's expense.

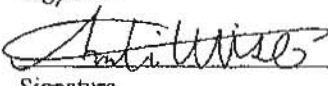
The Department of Planning and Zoning will provide its endorsement on a building permit application for the construction of the new dwelling on the subject property only upon the receipt of a copy of this letter signed by all owners of the property. This signed copy must be submitted with your building permit application for the construction of the new dwelling unit. This authorization does not relieve any of the standard requirements for building permit approval. Please notify this Division when you have received temporary or final use and occupancy permit for the new dwelling, and also when the Original Dwelling Unit has been removed. This authorization is not transferable. If you have questions regarding this matter, please contact me at (410) 313-2350.

Sincerely,

Geoff Goins, Chief
Division of Public Service and
Zoning Administration

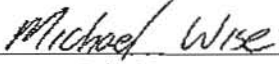
By signing below, I hereby affirm that I have read, understand, and will comply with the authorization granted above:



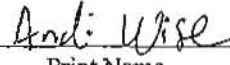
Signature Date



Signature Date

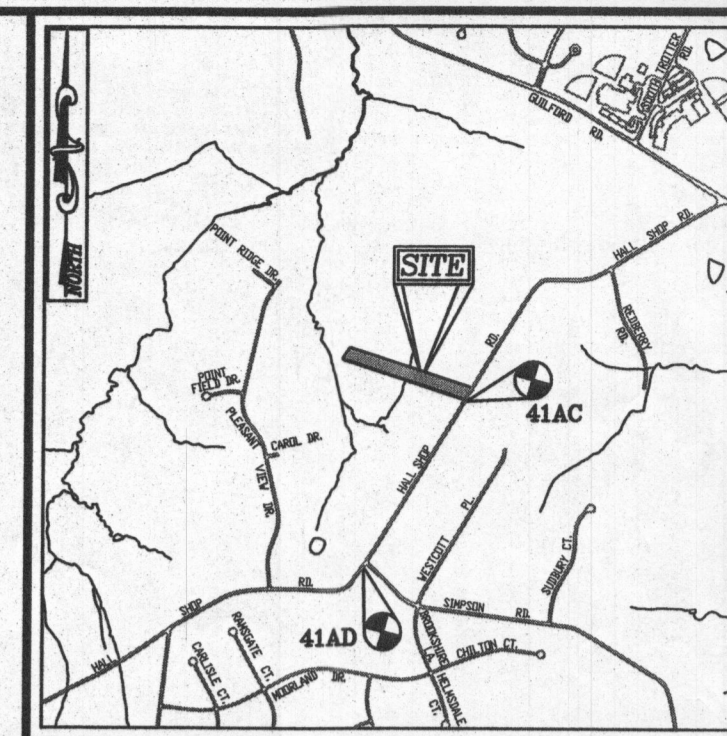
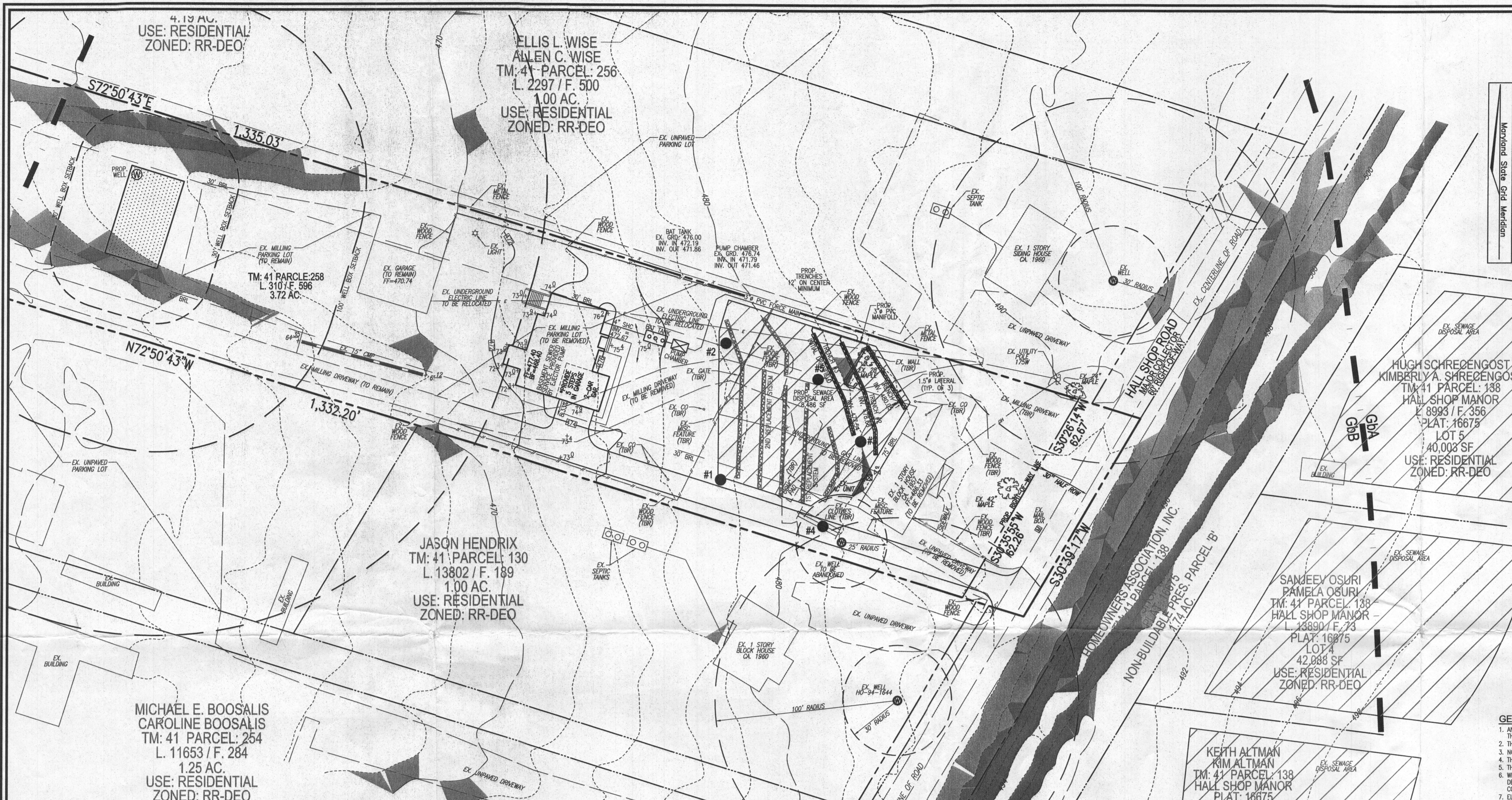


Print Name

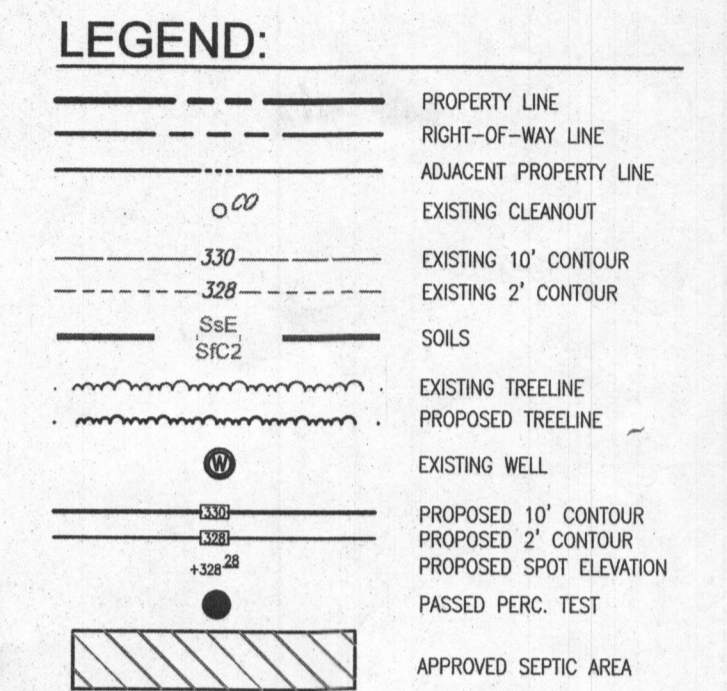


Print Name

(If additional signatures are necessary, please provide on back of page)



VICINITY MAP
SCALE: 1"=200'
ADC MAP: PAGE: 31 BLOCK: E5



THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AREA LARGE ENOUGH TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SYSTEMS AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE 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 AREA. RECONSTRUCTION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

- GENERAL NOTES:**
1. 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.
 2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
 3. NO BLOWER IS REQUIRED. THE NORWECO WASTEWATER TREATMENT SYSTEM HAS AN AERATOR MOUNTED IN THE TANK.
 4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
 5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
 6. 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.
 7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
 9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

Approved Septic System Plan
Howard County Health Department
Hank Osward 1/30/17
Signature Date

OWNER/BUILDER
ELEANOR L. WISE
MICHAEL L. WISE
12050 HALL SHOP ROAD
CLARKSVILLE, MD 21029
(410) 977-9414

SITE PLAN FOR BAT INSTALLATION
WISE PROPERTY
12050 HALL SHOP ROAD
CLARKSVILLE, MD 21029
BUILDING PERMIT # _____
ZONED: RR-DEO
PARCEL: 258
HOWARD COUNTY, MARYLAND

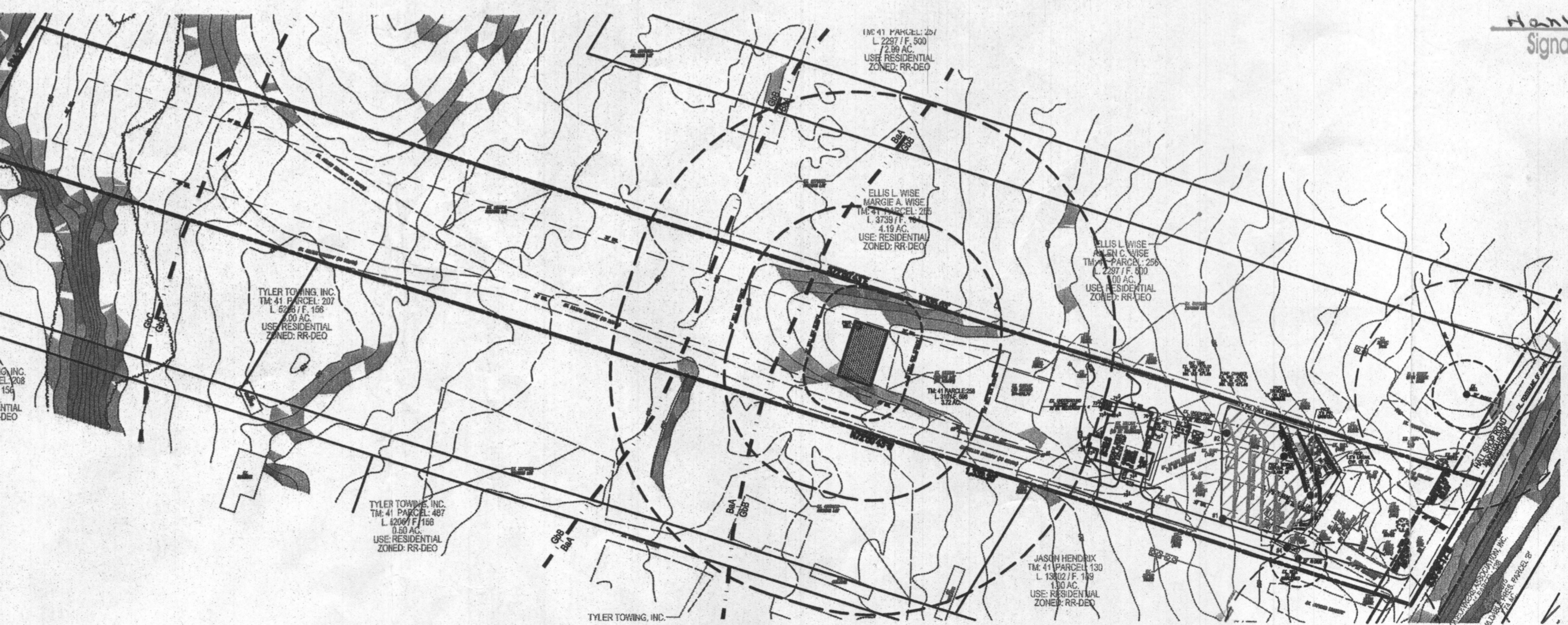
ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLICOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

PROFESSIONAL CERTIFICATE
DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: DECEMBER 2016
SCALE: AS SHOWN
W.O. NO.: 14-65

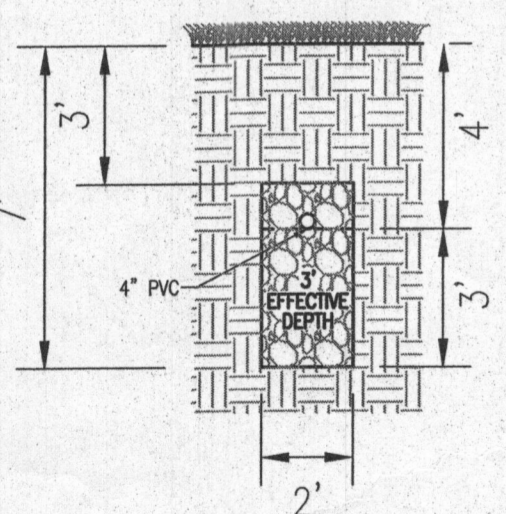
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18193 EXPIRATION DATE: 09-27-2018

1 SHEET OF 2

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



OVERALL SITE
SCALE: 1"=100'
SCALE 1"=100'



INITIAL SYSTEM AND 1ST REPLACEMENT TRENCH DETAIL
NOT TO SCALE

SYSTEM CALCULATIONS:
INITIAL SYSTEM AND FIRST REPLACEMENT SYSTEM:
4 BEDROOMS AT 600gpd / 0.8 ABSORPTION RATE = 750 SQ. FT.
750 SQ. FT. / 2 (TRENCH WIDTH) x .44 (SIDEWALL REDUCTION) = 165 LINEAR FEET
165 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.
165 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.

| TRENCH INFO. | | | |
|--------------|---------------|-----------------------|-----------------|
| TRENCH | TRENCH LENGTH | INTO BOTTOM OF TRENCH | EXISTING GROUND |
| 1 | 40' | 480.05 | 477.05 |
| 2 | 65' | 478.68 | 475.68 |
| 3 | 60' | 477.54 | 474.54 |

Wastewater

APPLICATIONS
Specifically designed for the following uses:
• Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump
• Solids handling capabilities: 1/2" maximum
• Discharge size: 2" NPT
• Capacities: up to 140 GPM
• Total heads up to 128 feet TDH
• Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent
• See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

• Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
• Class B insulation on 1/2 - 1 1/2 HP models.
• Class F insulation on 2 HP models.
• Capacitor start motors for maximum starting torque.
• Built-in overload with automatic reset.

• S/TOW or STOW severe duty oil and water resistant power cords.
• 1/2 - 1 HP models have NEMA three prong grounding plugs.
• 1 1/2 HP and larger units have bare lead cord ends.

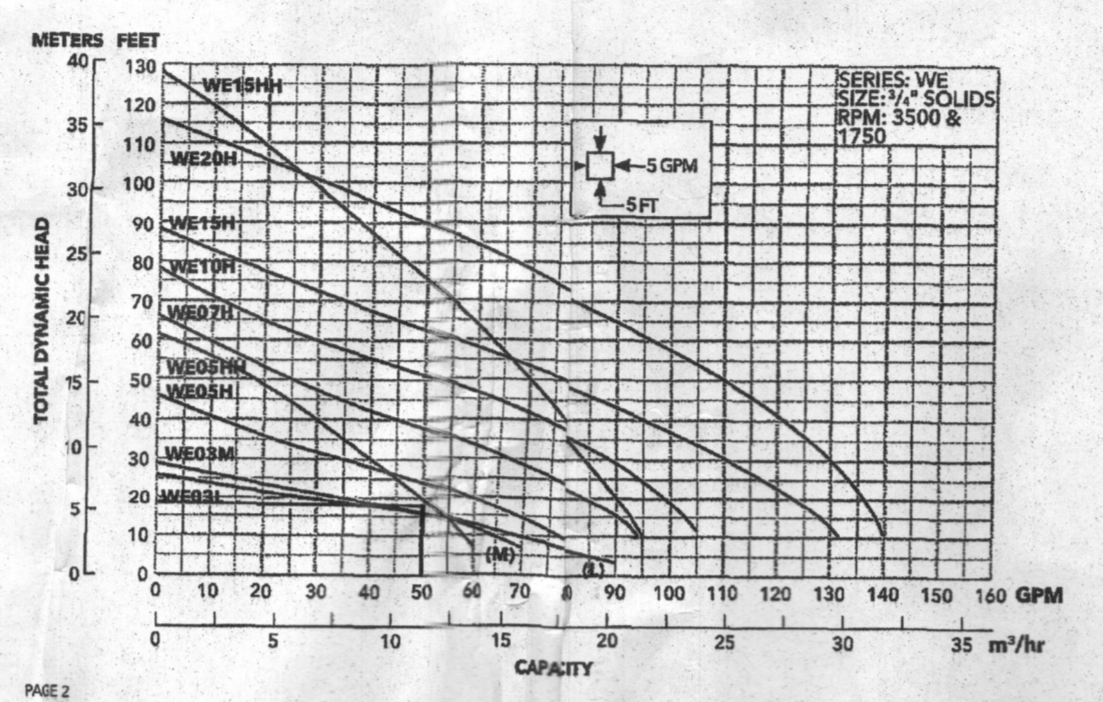
Three phase (60 Hz):

• Class 10 overload protection must be provided in separately ordered starter unit.
• STOW power cords all have bare lead cord ends. Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
Bearings: Upper and lower heavy duty ball bearing construction.

Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor and provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
O-rings: Assume positive sealing against contaminants and oil leakage.

Single phase (60 Hz):

• GENCY LISTINGS
Listed to UL 778 and CSA 22.2 108 Standards by Canadian Standards Association File #E85649



USE GOULDS WE05H (0.5 HP) OR EQUAL

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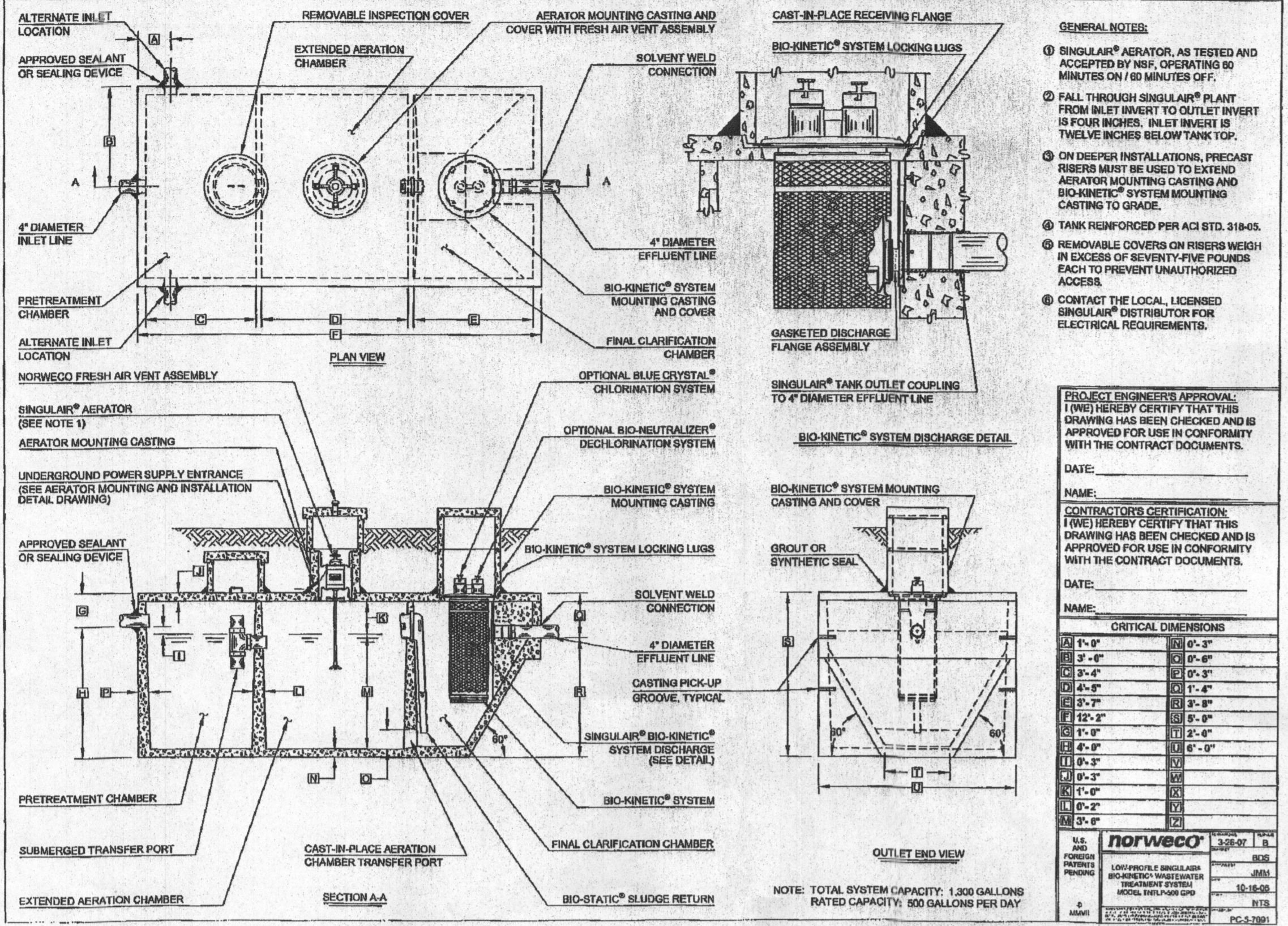
USE GOULDS WE05H (0.5 HP) OR EQUAL

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USE GOULDS WE05H (0.5 HP) OR EQUAL



GENERAL NOTES:
1. SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 10 MINUTES ON / 60 MINUTES OFF.
2. FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
3. ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
4. TANK REINFORCED PER ACI STD. 318-05.
5. REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
6. CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

PROJECT ENGINEER'S APPROVAL:
I HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.
DATE: _____
NAME: _____

CONTRACTOR'S CERTIFICATION:
I HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.
DATE: _____
NAME: _____

CRITICAL DIMENSIONS

| | | |
|---|--------|--------|
| A | 1'-0" | 1'-0" |
| B | 3'-0" | 3'-0" |
| C | 3'-0" | 3'-0" |
| D | 3'-0" | 3'-0" |
| E | 3'-0" | 3'-0" |
| F | 12'-0" | 12'-0" |
| G | 1'-0" | 1'-0" |
| H | 1'-0" | 1'-0" |
| I | 1'-0" | 1'-0" |
| J | 1'-0" | 1'-0" |
| K | 1'-0" | 1'-0" |
| L | 1'-0" | 1'-0" |
| M | 1'-0" | 1'-0" |

NOTE: TOTAL SYSTEM CAPACITY: 1,200 GALLONS
RATED CAPACITY: 500 GALLONS PER DAY

WISE PROPERTY

*** BAT SYSTEM:**
4 BEDROOMS = 5 X 150 GPD = 600 GPD
USE NORWECO MODEL TINTLP-500 BAT SYSTEM

*** TRENCH DESIGN**
600 GPD/0.80 APPLICATION RATE = 750 SF
SIDEWALL REDUCTION (3+2)/(3+1+((2)(3))) = 0.44
USE 10' TRENCH SPACING; 3 TRENCHES CONSISTING OF 40 LF, 65 LF, AND 60 LF
USE END MANIFOLD CONFIGURATION AND 5/16" DIAMETER HOLES
4' HOLE SPACING (TRENCH 1) / 5' HOLE SPACING (TRENCH 2) / 6' HOLE SPACING (TRENCH 3)

*** LATERAL DISCHARGE RATE**
(10)(13)(10) 5/16" HOLES WITH 2' DISTAL END HEAD
TOTAL LATERAL DISCHARGE RATE 68.26
USE 3" PVC FORCE MAIN f=0.58'/100'
USE 3" PVC MANIFOLD

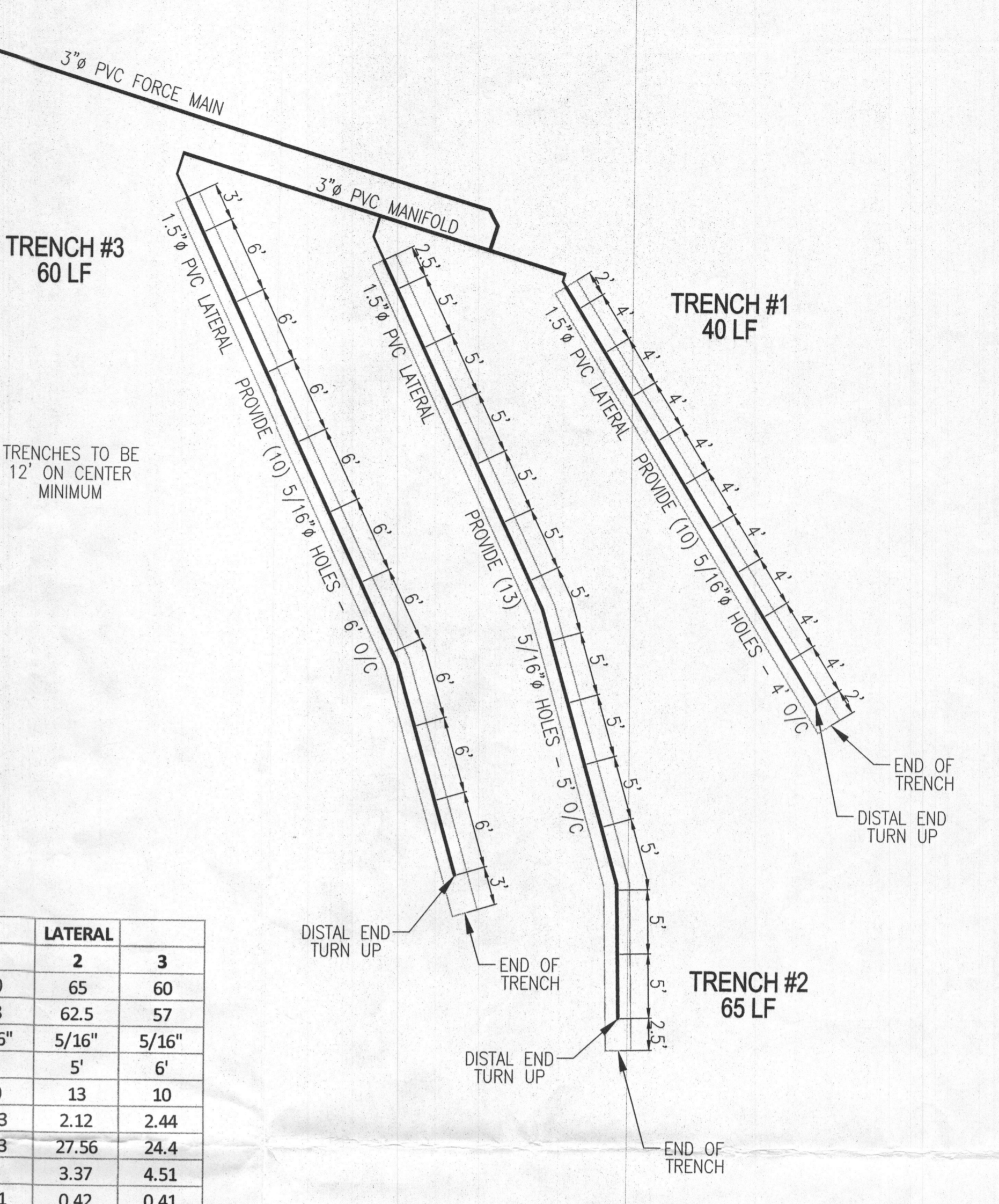
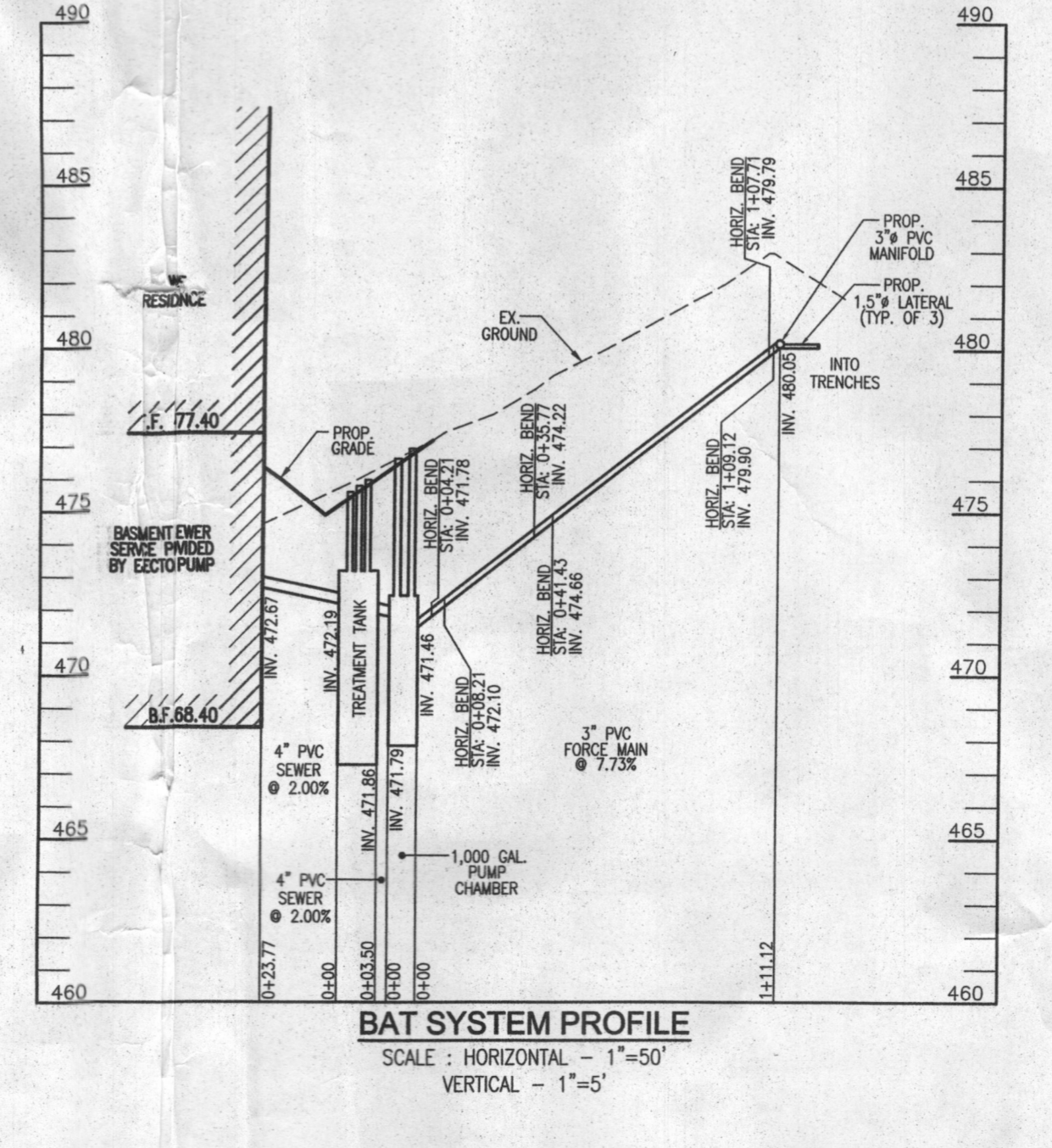
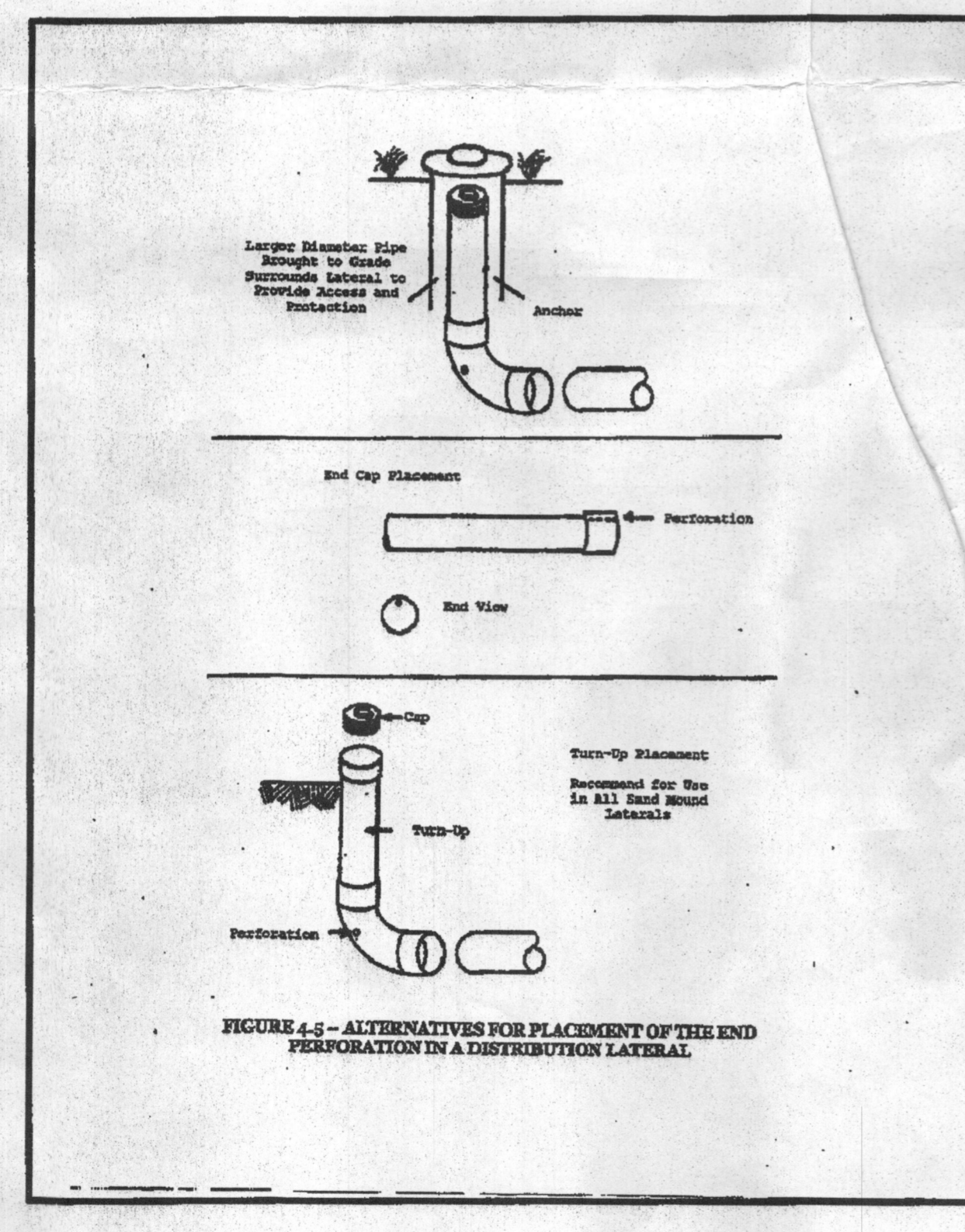
*** DETERMINE MINIMUM DOSE**
5 x [165'(10.6 gallons/10 lf)] = 87.45 gallons
36'(38.4 gallons/100 lf) = 13.82 gallons
120'(38.4 gallons/100 lf) = 46.08 gallons
TOTAL: 147.35 GALLONS MIN DOSE OR 1/6 DAILY DISCHARGE 100 GALLONS

*** PUMP SIZE**
FRICTION LOSS IN 3" FORCE MAIN: 120'
FRICTION LOSS FITTINGS: 49 LF
6 X 45° = 36
1 X 90° = 10
1 COUPLING = 3
hf = (169')(0.58'/100') = 0.67'

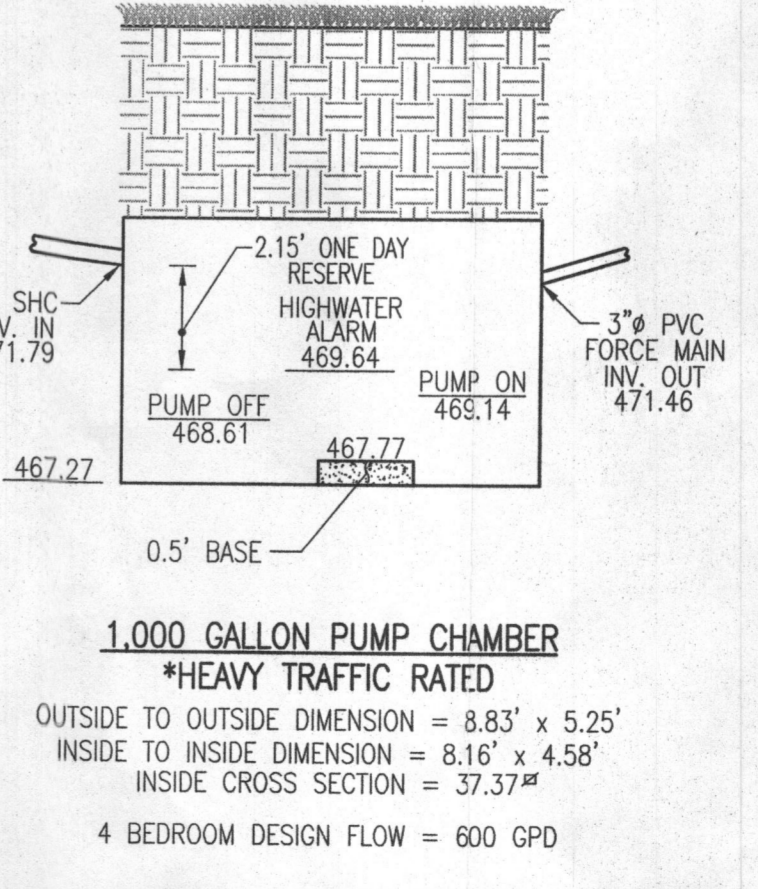
STATIC HEAD
HIGHEST POINT IN SYSTEM: 480.00
PUMP OFF: 468.61
hs = 12.02'
TDH = 0.67' (hf) + 12.02' (hs) + 1.5' (LATERALS FRICTION) + 2' (DISTAL END HEAD) = 16.19'

FOR 68.26 GPM @ 16.19' TDH USE 1/2 HP GOULDS PUMP WE05H

ONE DAY RESERVE: 600 GALLONS, DEPTH: 2.15'
DOSE: 147.35 GALLONS, DEPTH: 0.53'
HIGHWATER ALARM: 469.64
PUMP ON: 469.14
PUMP OFF: 468.61



| | LATERAL | | |
|-------------------|---------|-------|-------|
| | 1 | 2 | 3 |
| TRENCH LENGTH FT | 40 | 65 | 60 |
| LATERAL LENGTH | 38 | 62.5 | 57 |
| HOLE DIAMETER | 5/16" | 5/16" | 5/16" |
| HOLE SPACERATION | 4' | 5' | 6' |
| No. OF HOLES | 10 | 13 | 10 |
| DISCHARGE/HOLE | 1.63 | 2.12 | 2.44 |
| DISCHARGE/LATERAL | 16.3 | 27.56 | 24.4 |
| DISTAL HEAD | 2 | 3.37 | 4.51 |
| DISCHARGE/LF | 0.41 | 0.42 | 0.41 |



OWNER/BUILDER
ELEANOR L. WISE
MICHAEL L. WISE
12050 HALL SHOP ROAD
CLARKSVILLE, MD 21029
(410) 977-9414

SITE PLAN FOR BAT INSTALLATION

WISE PROPERTY
12050 HALL SHOP ROAD
CLARKSVILLE, MD 21029

BUILDING PERMIT # _____

5TH ELECTION DISTRICT TAX MAP: 41 GRID: 01 ZONE: RR-DEO PARCEL: 258 HOWARD COUNTY, MARYLAND

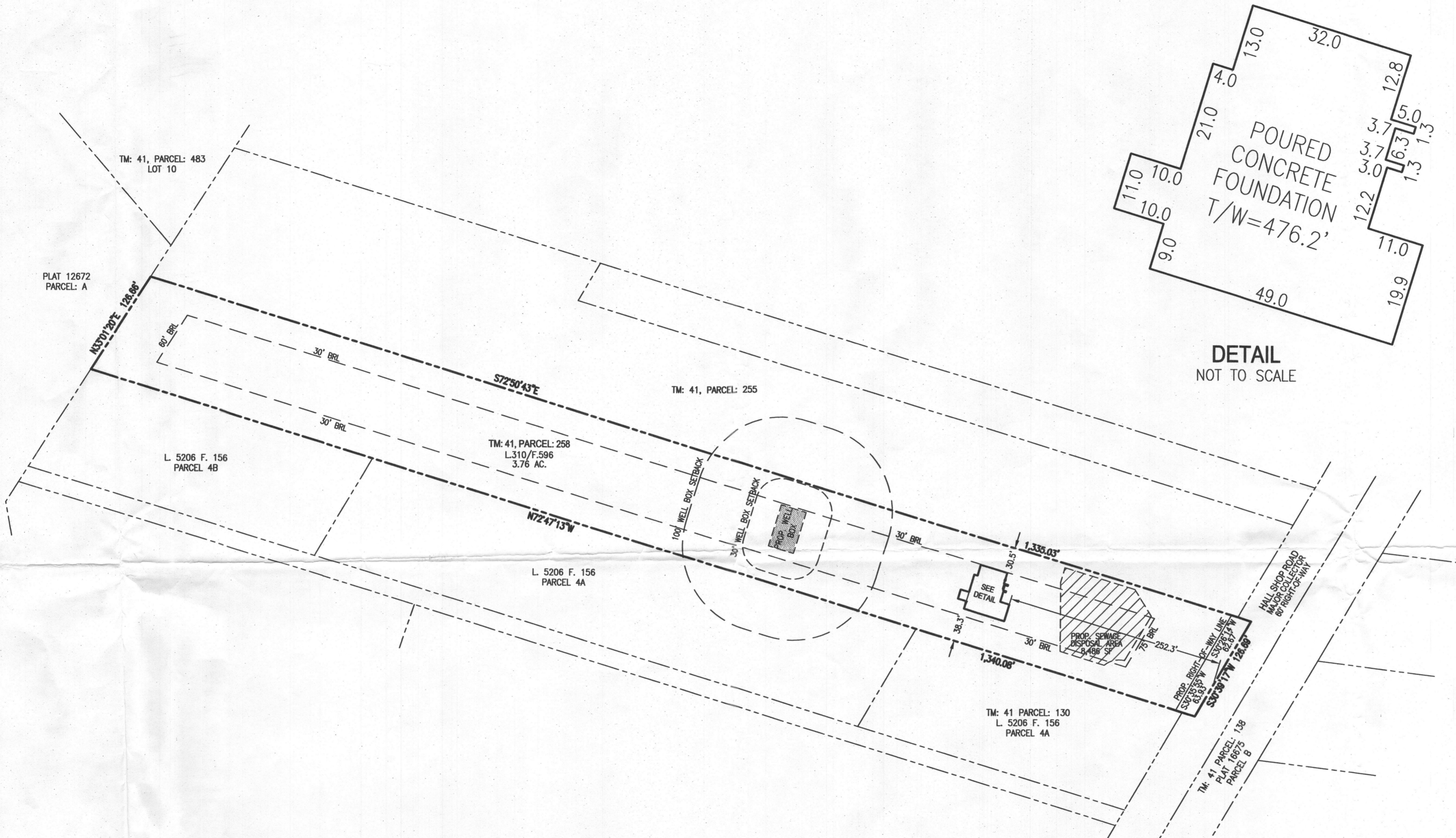
ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 10-27-2018

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: December 2016
SCALE: AS SHOWN
W.O. NO.: 14-65

2 SHEET OF 2

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'



DETAIL
NOT TO SCALE

Wall Check
OK
R/E 10/30/17
12050 Hall Shop Rd.

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21391, EXPIRATION DATE JUNE 4, 2019.

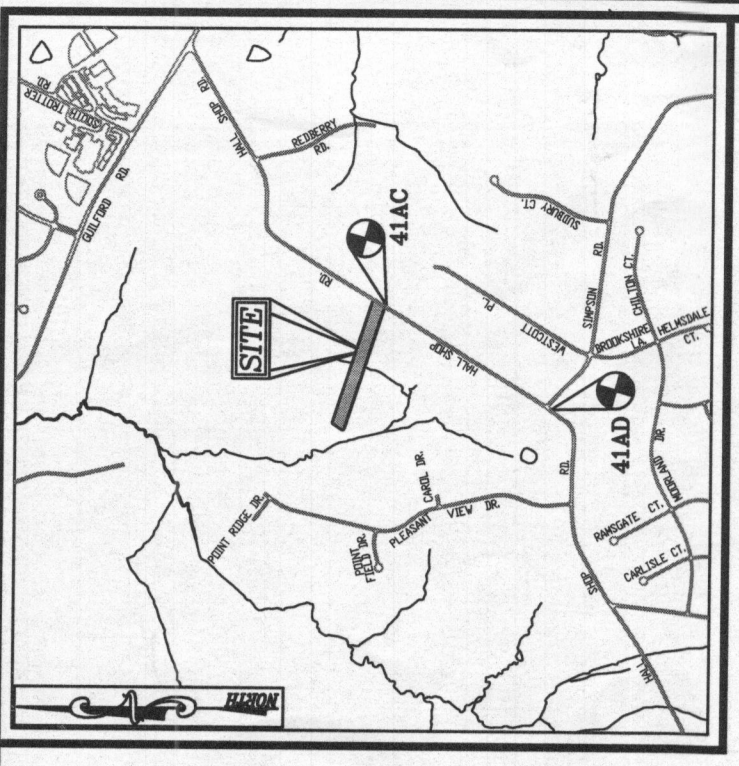


Edward J. Glawe 20 JULY 2017
EDWARD J. GLAWE, PROFESSIONAL LAND SURVEYOR #21391 DATE

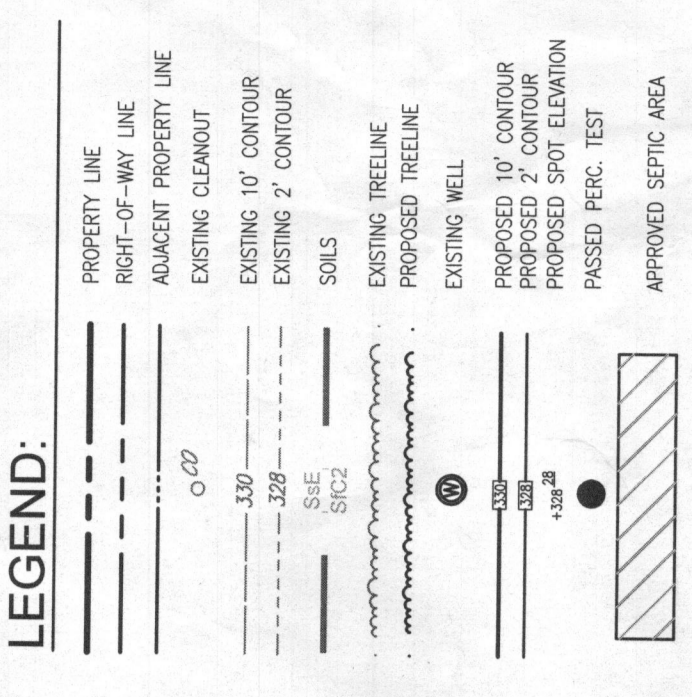
ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7666
ELIGOTT CITY, MD 21043 FAX: 410.461.8961

WALL CHECK DRAWING
WISE PROPERTY
3.76 ACRES
TAX MAP 41, PARCEL 258
12050 HALL SHOP ROAD
LIBER 17621, FOLIO 00001
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 80' JULY 20, 2017
GRAPHIC SCALE
160 80 40 0 80 160
1 INCH = 100 FEET

| | | |
|--------------------|-----------------|-----------------|
| COMPED BY: | W.O. NO.: 14-65 | SHEET 1 OF 1 |
| DRAWN BY: B.W.J. | | |
| CHECKED BY: E.J.G. | | |



VICINITY MAP
SCALE: 1"=2000'
ADC MAP: PAGE: 31 BLOCK: E5



THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT TO THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUALS WHOSE PROPERTIES ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO THE PUBLIC SEWER SYSTEM. THE STATE DEPARTMENT OF THE ENVIRONMENT SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THESE AREAS IF A CONNECTION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.

GENERAL NOTES:
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE MANUFACTURER'S SPECIFICATIONS MUST BE FOLLOWED.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATIONS IS 3 FEET.
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5. THE BAT SYSTEM SHALL BE INSTALLED IN A MANNER ACCEPTABLE TO THE STATE DEPARTMENT OF THE ENVIRONMENT (SDE) AND THE STATE DEPARTMENT OF HEALTH (SDH) WITHIN ONE MONTH OF INSTALLATION. A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE SDE AND SDH THE LOCATION, ADDRESS AND DATE OF INSTALLATION.
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8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE RECORDS OF HOWARD COUNTY.
9. PRIOR TO FINAL APPROVAL OF THE INSTALLATION, THE MANUFACTURER FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER.

Approved Septic System Plan
Howard County Health Department
Hank Oswald
Signature
Date 1/30/17

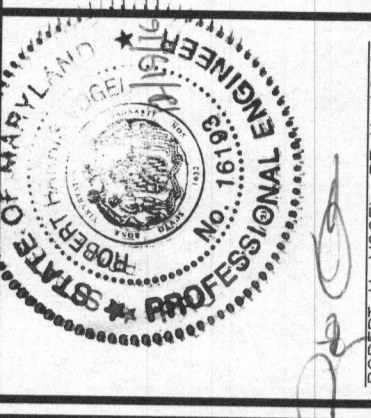
OWNER/BUILDER
ELEANOR L. WISE
MICHAEL L. WISE
12450 HALL SHOP ROAD
CLARKSVILLE, MD 21029
(410) 977-9414

SITE PLAN FOR BAT INSTALLATION

WISE PROPERTY
12050 HALL SHOP ROAD
CLARKSVILLE, MD 21029
BUILDING PERMIT # _____

ZONED: RR-DEO
PARCEL: 41
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MANSFIELD
ELICOTT CITY, MD 21043
FAX: 410-421-6966

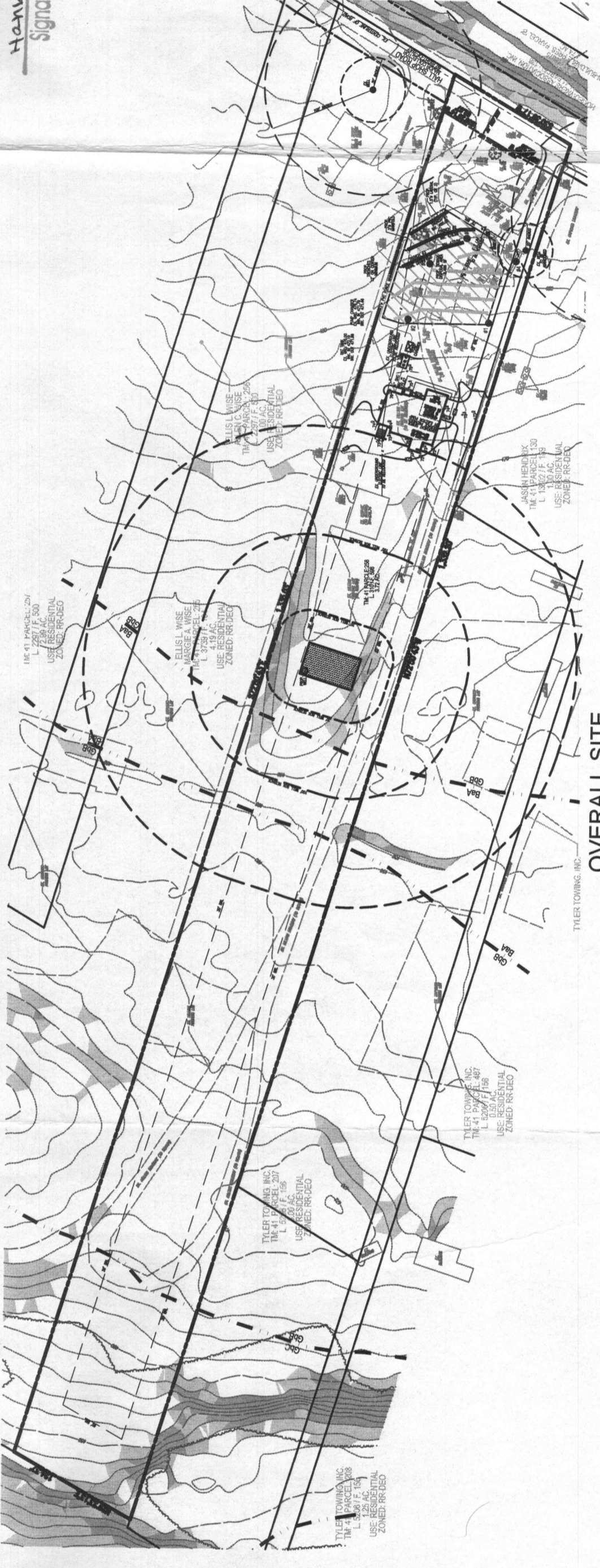
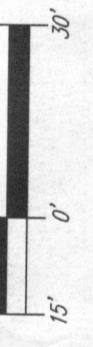


DESIGN BY: RHW
DRAWN BY: JME
CHECKED BY: RHW
DATE: DECEMBER 2016
SCALE: AS SHOWN
W.O. NO.: 14-65

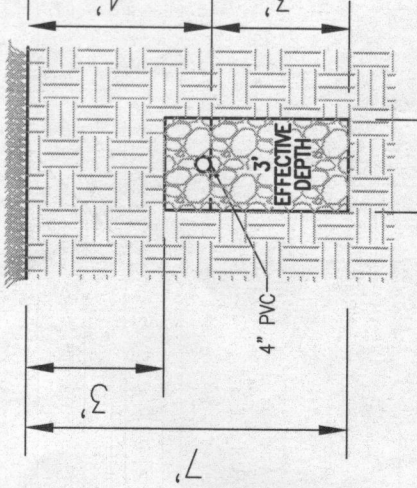
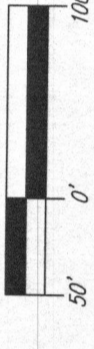
Maryland State Grid Meridian



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



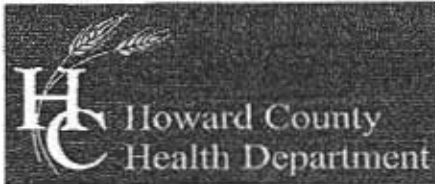
OVERALL SITE
SCALE: 1"=100'
SCALE: 1"=100'



INITIAL SYSTEM AND FIRST REPLACEMENT TRENCH DETAIL
NOT TO SCALE

SYSTEM CALCULATIONS:
INITIAL SYSTEM AND FIRST REPLACEMENT SYSTEM
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750 SQ. FT. / 2 (TRENCH WIDTH) x .44 (SUBWALL REDUCTION) = 165 LINEAR FEET
165 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM

| TRENCH INFO | |
|---------------|---------------|
| TRENCH LENGTH | BT EXCESS |
| 1 | 40' - 480.00' |
| 2 | 50' - 477.00' |
| 3 | 60' - 474.00' |
| | 481.54' |



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/hccohealth
 Twitter: HowardCoHealthDep

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

**APPLICATION FOR VARIANCE
 TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL**

Date Submitted 9/9/16
 12050 Hall Shop Road, Clarksville, Maryland 21029

| | | | | | |
|-------------|-----|---------|------|--------|---------------|
| n/a | | 0041 | 01 | 0258 | 05-372895 |
| Subdivision | Lot | Tax Map | Grid | Parcel | Tax Account # |

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):

Percolation certification plat for replacement septic and well for new house on the subject parcel

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

- | Regulation Section | Summary and Explanation |
|------------------------------|--|
| 1. <u>How Co 3.808(d)(3)</u> | Down gradient well. Proposed well envelope is 300' below the proposed sewage disposal easement. COMAR 26.04.02.05.B(2) On-site sewage disposal system is to be located down gradient from a private well |
| 2. <u>How Co 3.808 (c)</u> | To allow the proposed sewage disposal easement to be located 5' from the property line (10' required) and to be located 5' from the proposed driveway (10' required). AND 5' OF THE FOUNDATION TO BE REMOVED. |

[Signature]
 Property Owner's Signature

Health Department Use Only

Reviewed by _____ Date _____
 Recommendation: Recommended [] Not Recommended
[Signature] 9/19/16
 HCHD Supervisor Date

Comments/Conditions: BAT required
- well steel casing 50' or 10' into competent bedrock, whichever deeper
LPD Required

Approved by: [Signature] 9/23/16
 MDE Representative Date