



HOWARD COUNTY HEALTH DEPARTMENT

69625

DATE

7/12/21

p5

Received
From

PHONE #

☐ CASH
☒ CHECK

NO.

127158

\$

165

DU

For

Repair / 3095 Sneca
Chief Trail

One hundred sixty-five

Dollars

Received By

Kemp

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

INFORMATION FORM - SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- ☐ Failing System
- ☐ System relocation for proposed addition
- ☐ System upgrade for proposed addition
- ☐ Inadequate treatment zone
- ☐ Collapsed septic tank
- ☐ Collapsed drywell

☒ Finishing basement
Existing system design

- ☐ Drywell
- ☒ Trench
- ☐ Mound
- ☐ Unknown
- ☐ Other: _____

Is discharge surfacing on the ground?

☐ Yes
☒ No

Additional Comments:

replacing septic tank and pump chamber to accommodate
additional bedrooms.

*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 Regulations.

Septic Contractor: Fogle's Septic Clean Contractor's Phone: 410.795-5670

Contractor's Address: 580 Obrecht Rd

Property Address: 3095 Seneca Creek Trail County File: 338886

Subdivision: Brantwood Sec C Lot: 28 Year Built: 2004

Owner's Name: Robert Fricke Existing bedrooms: _____

Name of previous owners: _____ Existing bedrooms: _____

Proposed bedrooms: _____

See Hank

*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 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 exists.

The contractor is to notify the office of the emergency as soon as possible.

2/2020



Howard County Health Department

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

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

RECEIPT DATE: 7/27/21

ONSITE SEWAGE DISPOSAL SYSTEM

P 569625

APPROVAL DATE: 08/31/21

PERMIT:

REPAIR

A

PROPERTY ADDRESS: 3095 Seneca Chief Drive

SUBDIVISION: Brantwood Section C

LOT: 28 TAX ID: _____

CONTRACTOR: Fogles Septic Clean Inc

EMAIL: kim@foglesinc.com

CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784

PHONE: 410-795-5670

PROPERTY OWNER: Robert Fricke

EMAIL: _____

OWNER ADDRESS: 3095 Seneca Chief Trail, Ellicott City, MD 21042

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000

PUMP CHAMBER CAPACITY (GALLONS): 2000

PUMP SIZE: WE05H

NUMBER OF BEDROOMS: 6

HOUSE SQ. FT. _____

APPLICATION RATE: _____

DISTRIBUTION SYSTEM:

GRAVITY FED ☐

LOW PRESSURE DOSED ☐

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: <u>N/A</u>	MAXIMUM BOTTOM DEPTH: <u>N/A</u>
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
	LOCATION: TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	<u>Replace existing tanks w/ 2000gal septic tank/pump tank in same location.</u> <u>Verify fall in last 5 feet of SHC before septic tank.</u>	

ISSUED BY: Hank Oswald

ISSUE DATE: 7/27/21

EXPIRATION DATE: 7/27/22

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 EXISTING

NOTE: THE HCHD DOES NOT WARRANTY ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.

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.

3095 Seneca Creek Trail

NOT TO SCALE 1" = 30'

(W) 40-94-3083



ROAD NAME

Seneca Creek Trail

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

EXISTING

NUMBER OF TRENCHES _____
TOTAL LENGTH _____
ABSORPTION AREA _____
DISTRIBUTION BOX LEVEL _____
DISTRIBUTION BOX BAFFLE _____
DISTRIBUTION BOX PORT _____

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER BABY LON

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 3'

BAFFLES YES

BAFFLE FILTER —

MANHOLE LOC FRONT/BACK

6" PORT LOC —

WATERTIGHT TEST —

SLOTTED YES

DATE ON LID 07/04/2021

PUMP/SEPTIC TANK LEVEL YES

MANUFACTURER BABY LON

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 3'

BAFFLES —

BAFFLE FILTER —

MANHOLE LOC BACK

6" PORT LOC —

WATERTIGHT TEST —

SLOTTED —

DATE ON LID 07/23/21

PRE-CONSTRUCTION:

8/26/21 Confirmed property boundaries staked. Two new tanks going in old tank locations - will be 5' from property line and 10' from house (owner has waver). (SD)

INSTALLATION:

08/30/2021 ON SITE FOR TANK DELIVERY. EXISTING SEPTIC TANK PUMPED AND CRUSHED. TO BE REMOVED FROM SITE. (SD)
08/31/2021 INSTALLED PUMP TANK W/ COULDS WEOS/H.

(PIA) OK

FINAL INSPECTOR

DATE OF APPROVAL

08/31/2021

CAD Drawing File Name: g:\97250\dwg\septic\septic.dwg

MARYLAND COORDINATE SYSTEM
NAD 83 12'

SEPTIC LINE PROFILE

SCALE: HORIZ. 1" = 30'
VERT. 1" = 5'

LEGEND

- 25%+ SLOPES
- EX. 10' CONTOUR
- EX. 2' CONTOUR
- FAILED PERC TEST
- PASSED PERC TEST
- SOIL LINES
- EXISTING TREELINE

NOTE:
THE SEPTIC TANK RISERS TO
TERMINATE AT LEAST 6" ABOVE
FINAL GRADE.

TOP SEAM 2000 GAL SEPTIC TANK

(NOT TO SCALE)

NOTE: SHOULD WATER
BE ENCOUNTERED WHEN
INSTALLING TANKS
CONTACT THE ENGINEER.

NOTE:
SLOT IS 2" HIGH BY 4" LONG
IN CENTER OF LIQUID DEPTH

TOP SEAM 2000 GAL PUMP CHAMBER

(NOT TO SCALE)

SEPTIC TANK & PUMP CHAMBER REPLACEMENT & INSTALLATION:

1. REMOVE EXISTING SEPTIC TANK & PUMP CHAMBER.
2. INSTALL PROPOSED 2000 GALLON SEPTIC TANK.
SET ELEVATION OF INTAKE TO MATCH EXISTING
OUTFALL PIPE.
3. INSTALL PROPOSED PUMP CHAMBER TO MEET THE
ELEVATION SHOWN ON PUMP CHAMBER DETAIL.
4. CONNECT EXISTING FORCE-MAIN LINE TO PUMP
CHAMBER.
5. SET NEW PUMP & PUMP FLOATS PER PLAN.

SEPTIC SYSTEM TRENCH DESIGN:

EXISTING HOUSE - 4 BEDROOMS
PROPOSED ADDITION - 2 BEDROOM
TOTAL BEDROOMS - 6

INITIAL SYSTEM:

ASSUME APPLICATION RATE = 1.2 GPD/SQ. FT.
ASSUME EFFECTIVE DEPTH IS 3.5' (BASED ON ORIGINAL SYSTEM INSTALLATION)
TRENCH WIDTH = 2'
150 GAL x 6 BEDROOMS = 900 GAL/DAY
900 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 2' = 375 L.F.
375 L.F. x .62 = 232 L.F. OF DEEP TRENCH
EXISTING SEPTIC SYSTEM IS 154 L.F. OF TRENCH

REPLACEMENT SYSTEM #1:

APPLICATION RATE = 1.2 GPD/SQ. FT.
EFFECTIVE DEPTH IS 2'
TRENCH WIDTH = 3'
150 GAL x 6 BEDROOMS = 900 GAL/DAY
900 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 3' = 250 L.F.
250 L.F. x .62 = 155 L.F. OF DEEP TRENCH
USE 2 - 77.50 L.F. OF TRENCH

REPLACEMENT SYSTEM #2:

APPLICATION RATE = 1.2 GPD/SQ. FT.
EFFECTIVE DEPTH IS 2'
TRENCH WIDTH = 3'
150 GAL x 6 BEDROOMS = 900 GAL/DAY
900 GAL/DAY / 1.2 GAL/DAY/SQ. FT. = 750 SQ. FT.
750 SQ. FT. / 3' = 250 L.F.
250 L.F. x .62 = 155 L.F. OF DEEP TRENCH
USE 2 - 77.50 L.F. OF TRENCH

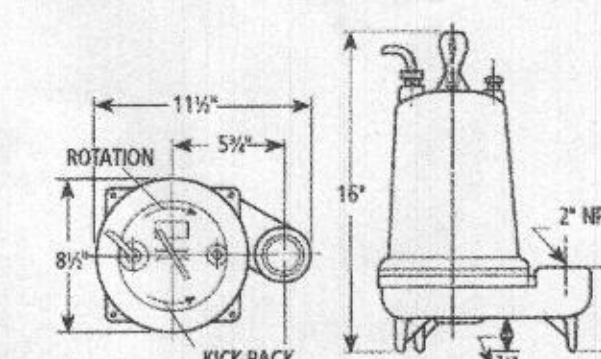
PLAN

SCALE: 1" = 30'

PERFORMANCE RATINGS (gallons per minute)												
Order No.	WE15H	WE20H	WE25H	WE30H	WE35H	WE40H	WE45H	WE50H	WE55H	WE60H	WE65H	WE70H
1	1750	1750	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
2	86	86	86	86	86	86	86	86	86	86	86	86
3	10	70	63	78	94	94	94	94	94	94	94	94
4	15	52	52	70	90	103	128	53	93	138	138	138
5	20	27	35	60	83	98	123	49	90	136	136	136
6	25	5	15	48	76	94	117	45	87	133	133	133
7	30	—	—	35	67	88	110	40	83	130	130	130
8	35	—	—	22	57	82	103	35	80	126	126	126
9	40	—	—	—	45	74	95	30	77	121	121	121
10	45	—	—	—	35	64	86	25	74	116	116	116
11	50	—	—	—	25	53	77	—	70	110	110	110
12	55	—	—	—	—	40	67	—	66	103	103	103
13	60	—	—	—	—	30	56	—	63	96	96	96
14	65	—	—	—	—	20	45	—	58	89	89	89
15	70	—	—	—	—	—	35	—	55	81	81	81
16	75	—	—	—	—	—	25	—	51	74	74	74
17	80	—	—	—	—	—	—	—	47	66	66	66
18	90	—	—	—	—	—	—	—	37	49	49	49
19	100	—	—	—	—	—	—	—	28	30	30	30

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



GOULDS PUMPS

ITT

APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

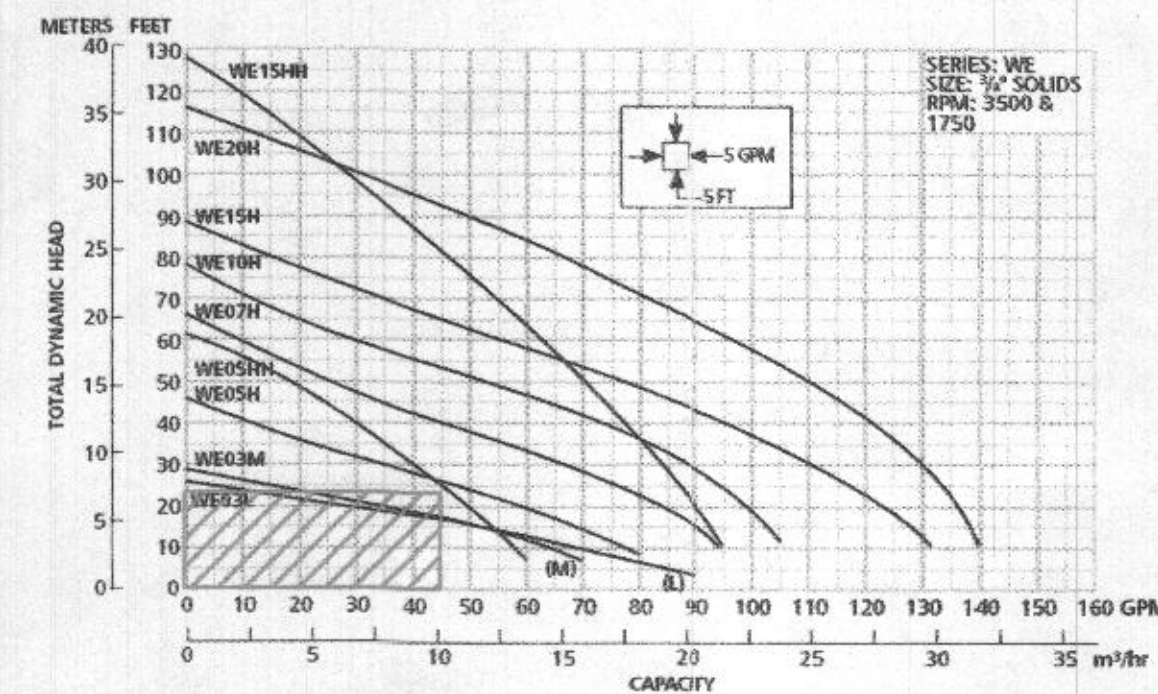
- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

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.

Single phase (60 Hz):

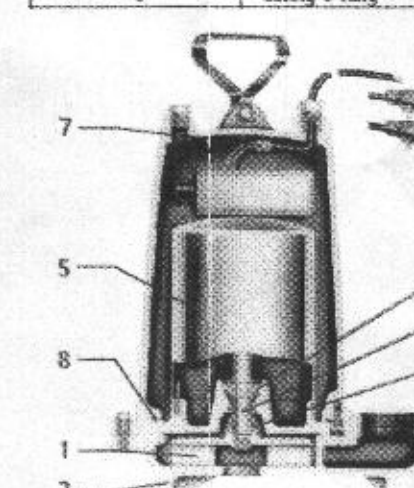
- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SITOW or STOW severe duty oil and water resistant power cords.



Wastewater

COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



PLAN 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 MINIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL (TAG # H0-84-3083) LOCATION WAS TAKEN FROM A LOCATION DRAWING DATED 03/25/2004 PREPARED BY LDE, INC.
4. IF A BUILDING PERMIT IS SUBMITTED ANY TIME IN THE FUTURE, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED TO FINISH THE AREA CURRENTLY IDENTIFIED AS THE BASEMENT. AT THAT TIME A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE BASEMENT COULD POSSIBLY CREATE A SEVENTH BEDROOM PER HOWARD COUNTY CODE 3.80 (B).
5. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELKIRIDGE, MD 410-796-1434.
6. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
7. THE PERC TEST LOCATIONS, WELL AREA AND SEPTIC EASEMENT AREA WERE TAKEN FROM THE HEALTH DEPARTMENT PERMIT FILE FOR THIS PROPERTY.
8. ELECTRICAL WORK FOR INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
9. THE PROPERTY LINE ADJACENT TO THE PROPERTY MUST BE PROFESSIONALLY STAKED PRIOR TO THE INSTALLATION OF THE TANKS.

PUMP/SYSTEM DESIGN:

1. DESIGN FLOW: 900 GPD
2. DESIGN HEAD:
STATIC HEAD: 462.00 (ASSUMED) - 445.10 = 16.90
FRICTION HEAD:
APPROX. 1.10 OF 1 1/4" RM (PER ORIGINAL PERMIT DESIGN) = 1.10
1.10 x 5.23 / 100 = 5.75
TOTAL HEAD: 16.90 + 5.75 = 22.65 @ 45 GPM

PUMP SYSTEM:

1. DOSE VOLUME:
MINIMUM DOSE = 150 GAL
110 OF 1 1/4" DIA. FORCE-MAIN
110 x 7.8 / 100 = 8.58 GALS.
USE MINIMUM DOSE = 150 GALS.
 2. PUMP CHAMBER CAPACITY
ONE DAY STORAGE CAPACITY = 900 GPD
+ DOSE = 150 GPD
TOTAL STORAGE = 1050 GPD
 3. PUMP ON TO PUMP OFF
D: 150 X 23 1/16 T6 = 3.24"
 4. HIGH WATER ALARM SWITCH TO PUMP CHAMBER
R: 900 X 23 1/16 T6 = 19.47"
- SPECIFICATIONS
- > Tank measurements and elevations are based on pump chambers as manufactured Mayer Bros, Inc. Elkridge, MD. 410-796-1434
 - > All piping to be schedule 40 PVC of sizes shown.
 - > A submersible pump to remove 45 GPM against 22.65' TDH to be provided. Pump to be a Goulds Model 3885-WE-05H, or equal.
 - > Alarm to be located at the house on circuit separate from the pump.

Approved Septic System Plan
Howard County Health Department

Hank Oswald 7/12/21
Signature Date

OWNER/DEVELOPER

ROBERT & YVONNE FRICKE
3095 SENECA CHIEF TRAIL
ELLCOTT CITY, MD. 21042

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN BRANTWOOD - LOT 28

3095 SENECA CHIEF TRAIL
3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 16 BLOCK: 21 • PARCEL: 441
RECORDED AS PLAT # 15252



439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
7/6/2021	ADD SEPTIC PROFILE	Designed By: LDA
7/19/2021	ADDRESS COUNTY COMMENTS PER EMAIL DATED 7/19/2021	Reviewed By: LDA
		Date: MAY, 2021
		Scale: AS SHOWN
		Job No: 2020182
		Sheet: 1

County File No. F- -